

# LASERJET PRO MFP

## Repair Manual



M521





# HP LaserJet Pro MFP M521 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](#)
- [Removal and replacement procedures](#)

# 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

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 **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.

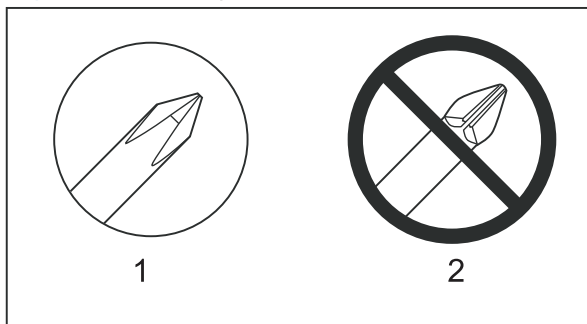
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## Required tools

- #2 Phillips 152 mm (6 in) screwdriver with magnetic tip
- #2 Phillips 76 mm (3 in) screwdriver with magnetic tip
- Small flat-tip screwdriver
- Small needle-nose pliers
- ESD mat
- Penlight

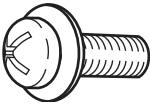
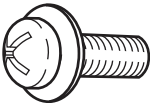
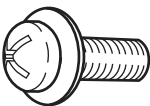
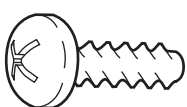
**CAUTION:** Always use a Phillips screwdriver (callout 1). Do not use a Pozidriv® screwdriver (callout 2) or any motorized screwdriver. These can damage screws or screw threads.

**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                      | M3X6   | 0515-2908   | Used to secure metal components to metal components (for example, a ground wire to the frame) |
|  | Screw                      | M3X8   | 0515-4681   |                                                                                               |
|  | Screw, tapping             | P-M3X6 | 0515-5621   |                                                                                               |
|  | Screw, tapping, truss head | M4X14  | 0515-4672   | 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, the server, or the product).
2. Troubleshoot the problem by using the procedures in the solve problems chapter of the Troubleshooting Manual.

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 paper from the product.
- Turn off the power using the power switch.
- Disconnect 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 cartridge on page 11](#).
- Remove the tray or trays. See [Tray 2 or Tray 3 assembly on page 13](#).

## After performing service

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

## Post-service test

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

### Print-quality test

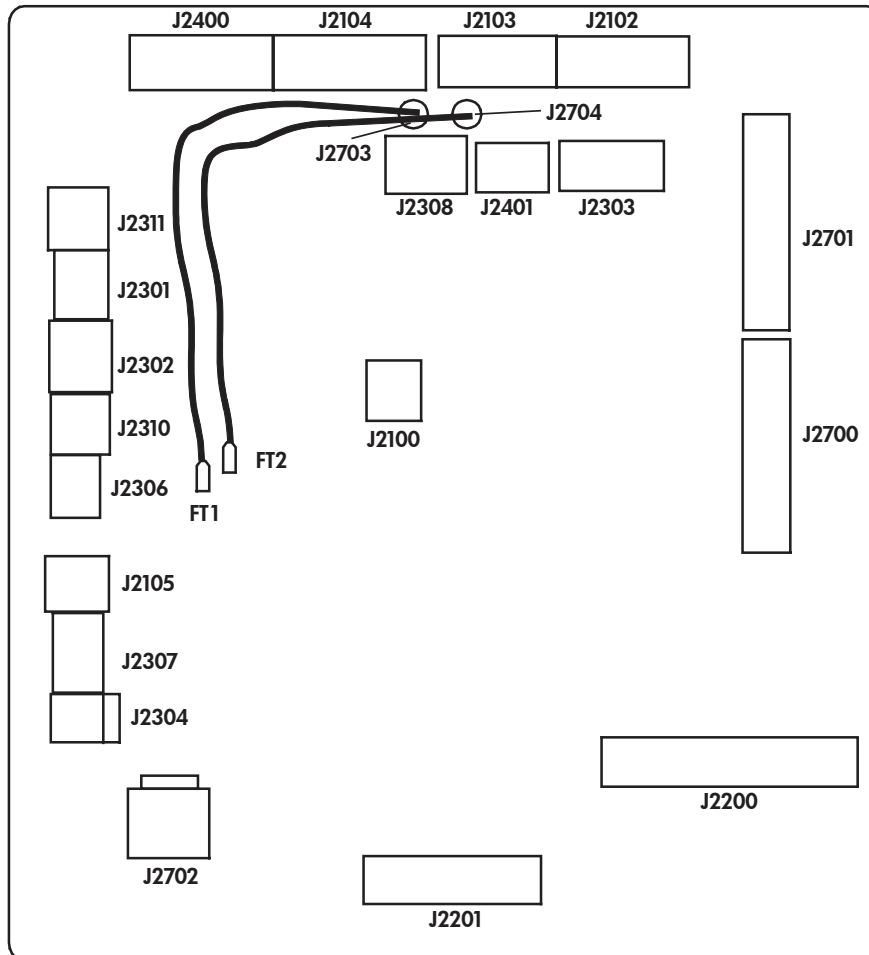
1. Verify that you have completed the necessary reassembly steps.
2. Make sure that the tray contains clean, unmarked paper.
3. Attach the power cable and interface cable or interface cables, and then turn on the product.
4. Verify that the expected start-up sounds occur. The fans start.

5. Print a configuration page, and then verify that the expected printing sounds occur. The fans start and the rollers turn.
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.

## Location of connectors

### DC controller connections

**Figure 1-2** DC controller connections

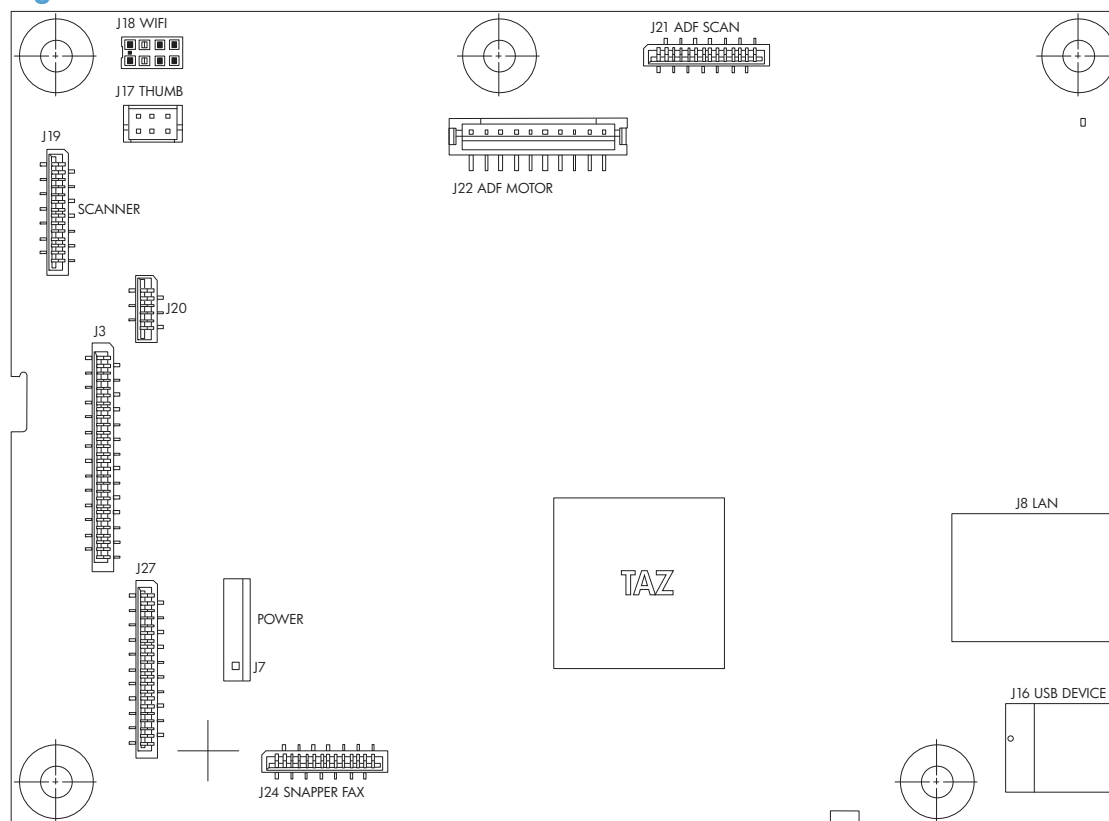


| Item  | Description         | Item  | Description                                              | Item  | Description                          |
|-------|---------------------|-------|----------------------------------------------------------|-------|--------------------------------------|
| J2100 | Not used            | J2302 | MPT paper out sensor (PS205)                             | J2400 | Fuser output sensor (PS2)<br>TH1/TH2 |
| J2102 | Fuser motor (M8002) | J2303 | Face-up sensor (PS1)<br><br>Output bin full sensor (PS4) | J2401 |                                      |
| J2103 | Main motor (M8003)  | J2304 | Environmental sensor (TH3)                               | J2700 | LVPS                                 |

| Item  | Description                                                     | Item  | Description                   | Item  | Description                   |
|-------|-----------------------------------------------------------------|-------|-------------------------------|-------|-------------------------------|
| J2104 | Subfan (FM2)<br>Rear door sensor (PS8001)<br>Scanner motor (M3) | J2306 | Interlock-switch (SW260)      | J2701 | LVPS                          |
| J2105 | Power switch (SW240)                                            | J2307 | Tray detection switch (SW235) | J2702 | LVPS                          |
| J2200 | HVPS                                                            | J2308 | Main fan (FM1)                | J2703 | Cartridge door switch (SW501) |
| J2201 | Paper feeder connector                                          | J2310 | CST pickup solenoid (SL2)     | J2704 | Cartridge door switch (SW501) |
| J2301 | CST paper out sensor (PS3)                                      | J2311 | MPT pickup solenoid (SL1)     |       |                               |

## Formatter connections

**Figure 1-3** Formatter connections



| Item | Description   | Item | Description     |
|------|---------------|------|-----------------|
| J3   | Control panel | J19  | Flatbed scanner |
| J7   | Power         | J20  | Flatbed motor   |
| J8   | LAN           | J21  | ADF/Scanner     |
| J16  | USB Device    | J22  | ADF motor       |
| J17  | USB           | J24  | Snapper Fax     |
| J18  | Wifi          | J27  | Video           |

## Parts removal order

**Figure 1-4** Parts removal order: covers and customer-replaceable assemblies

| 1. covers and customer replaceable assemblies |                         |                                        |                                                          |                         |                                                   |                          |               |             |
|-----------------------------------------------|-------------------------|----------------------------------------|----------------------------------------------------------|-------------------------|---------------------------------------------------|--------------------------|---------------|-------------|
| Assembly                                      | Remove                  | Remove                                 | Remove                                                   | Remove                  | Remove                                            | Remove                   | Remove        | Remove      |
| Toner cartridge                               |                         |                                        |                                                          |                         |                                                   |                          |               |             |
| Tray2,3                                       |                         |                                        |                                                          |                         |                                                   |                          |               |             |
| Formatter cover                               |                         |                                        |                                                          |                         |                                                   |                          |               |             |
| Formatter PCA                                 | Formatter cover         |                                        |                                                          |                         |                                                   |                          |               |             |
| ICB                                           | Formatter cover         |                                        |                                                          |                         |                                                   |                          |               |             |
| Fax card and cable                            | Formatter cover         |                                        |                                                          |                         |                                                   |                          |               |             |
| Dummy cover                                   | Formatter cover         |                                        |                                                          |                         |                                                   |                          |               |             |
| Rear cover assy                               |                         |                                        |                                                          |                         |                                                   |                          |               |             |
| Left cover                                    | Rear cover assy         |                                        |                                                          |                         |                                                   |                          |               |             |
| Right-rear cover                              | Formatter cover         | Rear cover assy                        |                                                          |                         |                                                   |                          |               |             |
| Tray 1 cover                                  |                         |                                        |                                                          |                         |                                                   |                          |               |             |
| Cartridge-door assy                           | Rear cover assy         | Left cover                             | Tray 1 cover                                             |                         |                                                   |                          |               |             |
| Right cover                                   | Formatter cover         | Tray 1 cover (could choose not remove) | Cartridge-door assy (could choose not remove, only open) | ADF/Scanner assy        |                                                   |                          |               |             |
| Lower right cover                             | Dummy cover             |                                        |                                                          | ADF/Scanner assy        |                                                   |                          |               | Right cover |
| Top cover                                     | Rear cover assy         | ADF/Scanner assy                       |                                                          |                         |                                                   |                          |               |             |
|                                               | Left cover              |                                        |                                                          |                         |                                                   |                          |               |             |
| I/O Plate                                     | Formatter cover         | Formatter PCA (ICB Fax card)           | Formatter Stay (sheet metal)                             | I/O Plate assembly      |                                                   |                          |               |             |
| ADF pickup & separation roller                |                         |                                        |                                                          |                         |                                                   |                          |               |             |
| 2. ADF/Scanner assembly                       |                         |                                        |                                                          |                         |                                                   |                          |               |             |
| Assembly                                      | Remove                  | Remove                                 | Remove                                                   | Remove                  | Remove                                            | Remove                   | Remove        | Remove      |
| Control Panel top cover                       |                         |                                        |                                                          |                         |                                                   |                          |               |             |
| Control Panel sub cover                       | Control Panel top cover |                                        |                                                          |                         |                                                   |                          |               |             |
| Control Panel                                 | Control Panel top cover | Control Panel sub cover                |                                                          |                         |                                                   |                          |               |             |
| USB PCA                                       | Control Panel top cover | USB bracket (sheet metal)              |                                                          |                         |                                                   |                          |               |             |
| Control Panel FFC cable                       |                         | Scanner lower cover                    | Control Panel top cover                                  | Control Panel sub cover |                                                   |                          |               |             |
| USB cable & grounding cable                   | Formatter cover         | Scanner lower cover                    | Control Panel top cover                                  |                         |                                                   |                          |               |             |
| Wifi module and cable                         | Dummy cover             |                                        |                                                          |                         |                                                   |                          |               |             |
| ADF whole unit                                | Rear cover assy         | Scanner lower cover                    |                                                          |                         |                                                   |                          |               |             |
|                                               | Left cover              |                                        |                                                          |                         |                                                   |                          |               |             |
| Scanner whole unit                            | ADF/Scanner assy        | Scanner rear cover                     |                                                          |                         |                                                   |                          |               |             |
|                                               |                         | Scanner rear cover                     |                                                          |                         |                                                   |                          |               |             |
| ADF hinge assembly                            |                         |                                        |                                                          |                         |                                                   |                          |               |             |
| 3. Main assemblies                            |                         |                                        |                                                          |                         |                                                   |                          |               |             |
| Assembly                                      | Remove                  | Remove                                 | Remove                                                   | Remove                  | Remove                                            | Remove                   | Remove        | Remove      |
| Tray 1 pickup roller                          |                         |                                        |                                                          |                         |                                                   |                          |               |             |
| Tray 1 separation pad                         |                         |                                        |                                                          |                         |                                                   |                          |               |             |
| Tray 2, 3 pickup roller                       |                         |                                        |                                                          |                         |                                                   |                          |               |             |
| Tray 2, 3 separation pad                      |                         |                                        |                                                          |                         |                                                   |                          |               |             |
| Tray 2, 3 base-plate roller assy              |                         |                                        |                                                          |                         |                                                   |                          |               |             |
| Transfer roller                               |                         |                                        |                                                          |                         |                                                   |                          |               |             |
| Fuser                                         | Rear cover assy         | Right-rear cover                       |                                                          |                         |                                                   |                          |               |             |
| Duplex media-feed assy                        | Rear cover assy         | Right-rear cover                       |                                                          |                         |                                                   |                          |               |             |
| Registration roller assy                      | Rear cover assy         | Left cover                             |                                                          |                         |                                                   |                          |               |             |
| Power-switch assy                             |                         | Tray 1 cover                           | Cartridge-door assy                                      | Right cover             |                                                   |                          |               |             |
| Interlock switch assy                         |                         | Tray 1 cover                           | Cartridge-door assy                                      | Right cover             |                                                   |                          |               |             |
| Tray sensor PCA                               |                         | Tray 1 cover                           | Cartridge-door assy                                      | Right cover             |                                                   |                          |               |             |
| Main fan                                      | Formatter cover         | Tray 1 cover                           | Cartridge-door assy                                      | Right cover             |                                                   |                          |               |             |
| DC controller                                 | Dummy cover             | Tray 1 cover                           | Cartridge-door assy                                      | Right cover             | Lower right cover (if removing sheet metal plate) |                          |               |             |
| Top cover                                     | Rear cover assy         |                                        |                                                          |                         |                                                   |                          |               |             |
| Laser scanner                                 | Left cover              | ADF/Scanner assy                       | Top cover                                                |                         |                                                   |                          |               |             |
| Tag holder assy                               |                         | ADF/Scanner assy                       | Top cover                                                |                         |                                                   |                          |               |             |
| LVPS (Low-voltage power supply)               |                         | Right cover                            | Lower right cover                                        | ADF/Scanner assy        | Top cover                                         | DC controller            | LVPS          |             |
| Tray 1, 2 pickup solenoid                     | Formatter cover         | Right cover                            | Lower right cover                                        | ADF/Scanner assy        | Top cover                                         | DC controller            | LVPS          |             |
| Fuser motor                                   | Dummy cover             | Right cover                            | Lower right cover                                        | ADF/Scanner assy        | Top cover                                         | DC controller            | LVPS          |             |
| Pendulum assy                                 | Rear cover assy         | Right cover                            | Lower right cover                                        | ADF/Scanner assy        | Top cover                                         | DC controller            | LVPS          | Fuser motor |
| Sub fan and fan duct                          | Left cover              | Right cover                            | Lower right cover                                        | ADF/Scanner assy        | Top cover                                         | DC controller            | LVPS          |             |
| Environmental sensor                          | Right-rear cover        |                                        |                                                          |                         |                                                   |                          |               |             |
| Tray 2 paper pickup                           | Tray 1 cover            | Right cover                            | Lower right cover                                        | ADF/Scanner assy        | Top cover                                         | DC controller with plate | LVPS          |             |
|                                               | Cartridge-door assy     |                                        |                                                          |                         |                                                   |                          |               |             |
| HVPS                                          |                         | Duplex media-feed assy                 | Right cover                                              | Lower right cover       | ADF/Scanner assy                                  | Top cover                | DC controller | LVPS        |
|                                               |                         | Duplex media-feed assy                 | Right cover                                              | Lower right cover       | ADF/Scanner assy                                  | Top cover                | DC controller | LVPS        |

# Removal and replacement procedures

## Customer self repair (CSR) assemblies

### Toner cartridge

---

**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. Press the cartridge-door release button, and then open the cartridge door. Make sure that the door is completely open.

**Figure 1-5** Remove the toner cartridge (1 of 2)

2. Grasp the toner-cartridge handle and pull it out of the product.

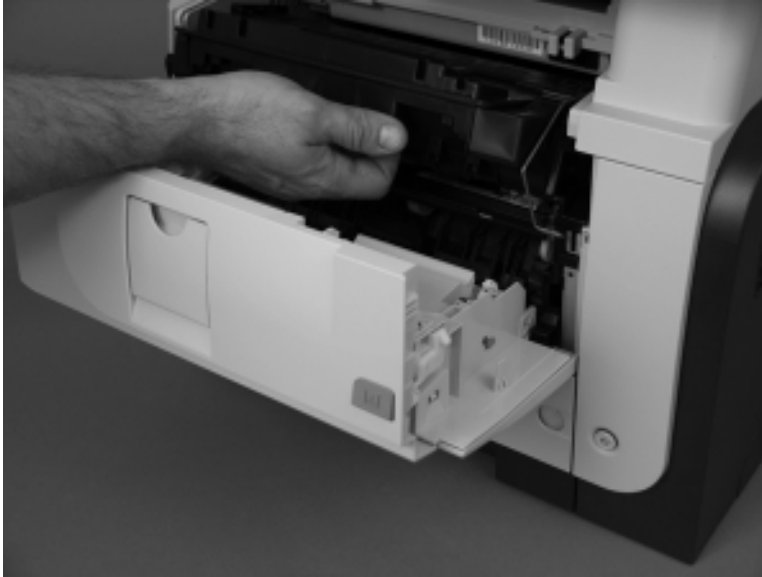
---

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



## Tray 2 or Tray 3 assembly

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

---

- ▲ Pull the tray straight out of the product until it stops. Carefully lift up on the tray to release it, and then remove the tray.

**Figure 1-7** Remove the tray

## Document feeder rollers

### Document feeder pickup roller

---

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

 **NOTE:** If you did not remove Tray 2 or 3 before servicing the product, remove them now.

---

1. Carefully place the product front-side up, so that you can see into the opening where the tray would be installed.

 **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. Open the document feeder cover.

**Figure 1-8** Remove the document feeder pickup roller (1 of 2)

3. Release one tab, and then rotate the roller out and away from the product to remove it.

---

 **TIP:** It might be easier to release the tab by using a small flat-tip screwdriver.

---

**Figure 1-9** Remove the document feeder pickup roller (2 of 2)

## Document feeder separation roller

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

---

1. Open the document feeder cover.

**Figure 1-10** Remove the document feeder separation roller (1 of 2)

2. Release one tab, and then rotate the roller out and away from the product to remove it.

 **TIP:** It might be easier to release the tab by using a small flat-tip screwdriver.

---

**Figure 1-11** Remove the document feeder separation roller (2 of 2)

## Document feeder separation pad

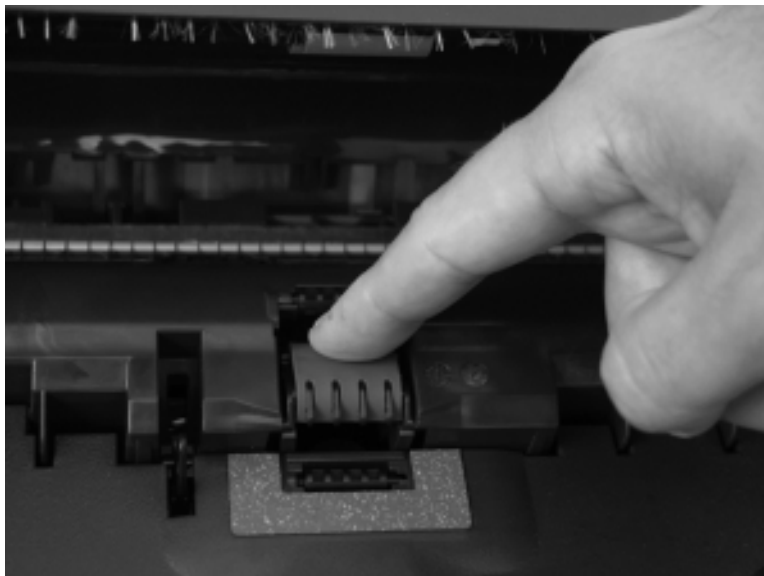
- ! **CAUTION:** Do not touch the surface of the pad. Skin oils deposited on the roller might cause paper-handling problems.
- 

1. Open the document feeder cover.

**Figure 1-12** Remove the document feeder separation pad (1 of 2)

2. Press down on the document feeder separation pad to release the pad, and then remove the separation pad.

**Figure 1-13** Remove the document feeder separation pad (2 of 2)



## External panels, covers, doors, and formatter

### Formatter cover

- ▲ Slide the formatter cover toward the rear of the product to remove.

**Figure 1-14** Remove the formatter cover

## Formatter PCA

---

! **WARNING!**  ESD sensitive component.

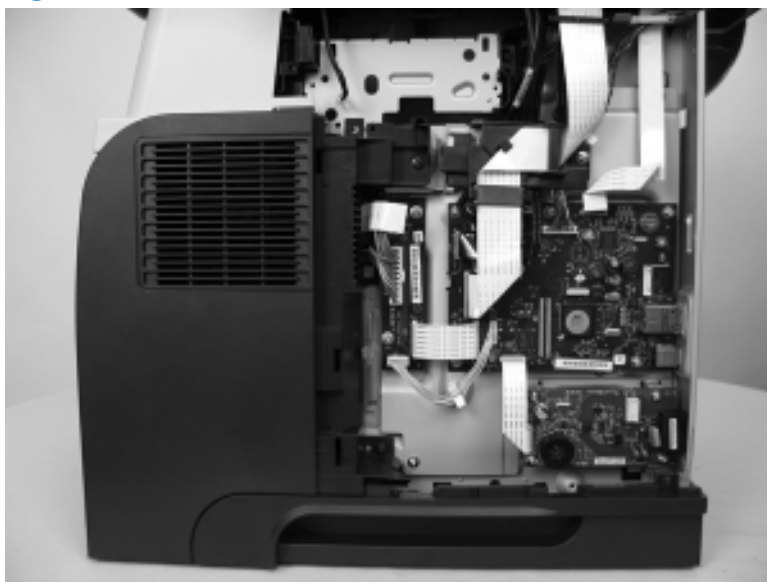
---

1. Before proceeding, remove the following:
  - Formatter cover. See [Formatter cover on page 18](#).
2. Disconnect 10 cables/FFCs (M521dw) or 9 cables/FFCs (M521dn).

 **NOTE:** To locate the formatter connector locations, see [Formatter connections on page 9](#).

---

**Figure 1-15** Remove the formatter PCA (1 of 2)



3. Remove five screws and then carefully remove the formatter PCA.

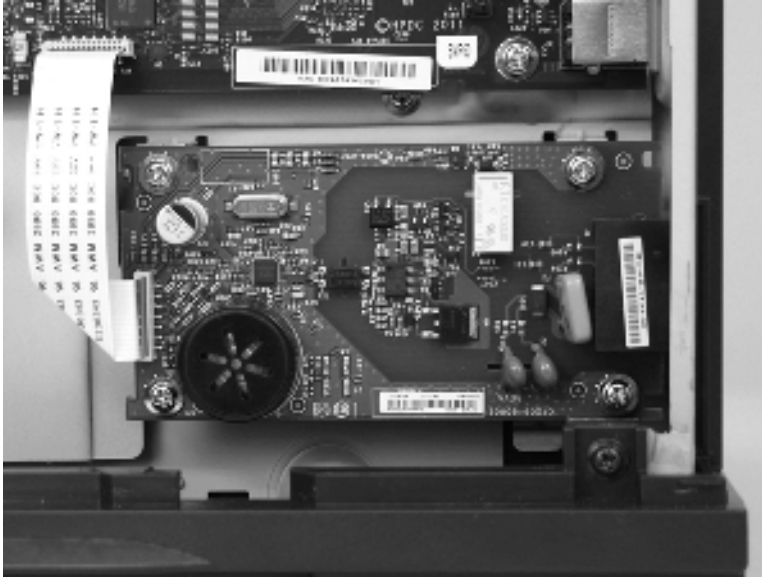
**Figure 1-16** Remove the formatter PCA (2 of 2)

## Fax PCA and cable

! **WARNING!**  ESD sensitive component.

1. Before proceeding, remove the following:
  - Formatter cover. See [Formatter cover on page 18](#).
2. Disconnect one connector on the fax PCA.

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



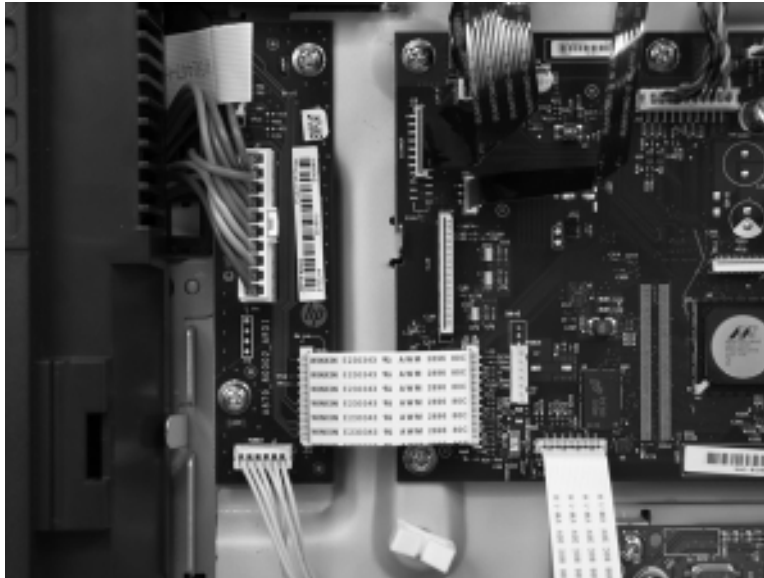
3. Remove four screws, and then remove the fax PCA from the product.

**Figure 1-18** Remove the fax PCA and cable (2 of 2)

## Interconnect board (ICB)

1. Disconnect two FFCs and two connectors.

**Figure 1-19** Remove the ICB (1 of 2)



2. Remove two screws.

**Figure 1-20** Remove the ICB (2 of 2)

3. Remove the ICB.

## Formatter stay

1. Before proceeding, remove the following:
  - Formatter cover. See [Formatter cover on page 18](#).
  - Formatter PCA. See [Formatter PCA on page 19](#).
  - Fax PCA and cable. See [Fax PCA and cable on page 20](#).
  - ICB. See [Interconnect board \(ICB\) on page 21](#).
2. Remove five screws holding the formatter stay to the chassis.

**Figure 1-21** Remove the formatter stay, 1 of 1

3. Remove the formatter stay.

## Dummy cover

1. Before proceeding, remove the following components:
  - Formatter cover. See [Formatter cover on page 18](#).
2. Remove one screw (callout 1) and release one tab (callout 2).

**Figure 1-22** Remove the dummy cover (1 of 2)

---

 **Reinstallation tip** Disconnect the control-panel cable from the formatter to provide additional access to the tab.

---

3. Remove the dummy cover.

**Figure 1-23** Remove the dummy cover (2 of 2)



## Rear cover assembly

1. Open the rear door.

**Figure 1-24** Remove the rear cover assembly (1 of 8)

2. Gently pull down on the door and lower the door until it is fully open.

**Figure 1-25** Remove the rear cover assembly (2 of 8)

3. Push up on the link arm to release it.

---

**CAUTION:** The link arm is under spring tension. Do not let the link arm snap back toward the product when you release it.

---

**Figure 1-26** Remove the rear cover assembly (3 of 8)

4. Remove two screws.



**NOTE:** These two screws are of different types. Make sure to install them in the correct location.

---

**Figure 1-27** Remove the rear cover assembly (4 of 8)

5. Open the lower-rear door, and then release one tab (callout 1).

**Figure 1-28** Remove the rear cover assembly (5 of 8)

6. Release one tab (callout 1).

**Figure 1-29** Remove the rear cover assembly (6 of 8)

7. Rotate the bottom of the rear cover assembly away from the product.

**Figure 1-30** Remove the rear cover assembly (7 of 8)

8. Pull down on the rear cover assembly to remove it.

**Figure 1-31** Remove the rear cover assembly (8 of 8)



---

 **Reinstallation tip** Insert the top of the cover first to make sure the tabs are in place and then rotate the bottom of the cover into place.

---

## Left cover

1. Before proceeding, remove the following:
  - Rear cover assembly. See [Rear cover assembly on page 24](#).
2. Remove one screw (callout 1).

**Figure 1-32** Remove the left cover (1 of 3)

3. Grip the cover and pull it away from the product. Release the first tab (callout 1), and then release the second tab (callout 2). Release the third tab (callout 3), if necessary, to separate the cover from the product.

---

 **TIP:** The tab inside the tray cavity (callout 2) is located below the plastic tray rail. It might be easier to slightly lift up the left side of the product, and use a small flat-tip screwdriver to release this tab.

---

**Figure 1-33** Remove the left cover (2 of 3)



4. Rotate the rear of the cover slightly away from the product, and then slide the cover toward the front of the product to remove it.

**Figure 1-34** Remove the left cover (2 of 3)

---

 **Reinstallation tip** Align the tabs on the front of the cover first and then reinstall the cover.

---

## Right-rear cover

1. Before proceeding, remove the following:
  - Formatter cover. See [Formatter cover on page 18](#).
  - Rear cover assembly. See [Rear cover assembly on page 24](#).
2. Slide the right-rear cover toward the inside of the product to release it.

**Figure 1-35** Remove the right-rear cover (1 of 2)

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

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

### Reinstall the right-rear cover

- ▲ Make sure to slide the tab on the top of the cover under the sheet-metal clip.

**Figure 1-37** Reinstall the right-rear cover

## Tray 1 cover

1. Before proceeding, remove the following:
  - Rear cover assembly. See [Rear cover assembly on page 24](#).
  - Left cover. See [Left cover on page 28](#).
2. Carefully release two retaining arms (callout 1).

**Figure 1-38** Remove Tray 1 cover (1 of 3)

3. Slightly lift the cover to a 45 degree angle, and then slide it toward the left side of the product.

---

 **TIP:** If you lower the tray too far, it will not slide off of the hinge pins.

---

**Figure 1-39** Remove Tray 1 cover (2 of 3)

4. Remove the Tray 1 cover.

**Figure 1-40** Remove Tray 1 cover (3 of 3)



## Cartridge-door assembly

1. Before proceeding, remove the following:

- Rear cover assembly. See [Rear cover assembly on page 24](#).
- Left cover. See [Left cover on page 28](#).
- Tray 1 cover. See [Tray 1 cover on page 32](#).



**TIP:** The cartridge-door assembly can be removed without removing the Tray 1 cover. However, it is easier to remove and reinstall the door assembly when the Tray 1 cover is not installed.

---

2. Remove one spring (callout 1).

**Figure 1-41** Remove the cartridge-door assembly (1 of 3)

3. Open the cartridge door slightly and then slide the assembly toward the left side of the product to release it from the hinge pins.

---

**CAUTION:** You can flex the link arm (callout 1), but be careful not to damage it.

---

**Figure 1-42** Remove the cartridge-door assembly (2 of 3)

4. After releasing from the hinge pins, move the cartridge door to the right to release the pressure on the link arm. Rotate the assembly down, and then separate the link arm (callout 1) from the assembly. Remove the cartridge-door assembly.

**Figure 1-43** Remove the cartridge-door assembly (3 of 3)

## Right cover assembly

1. Before proceeding, remove the following:
  - Formatter cover. See [Formatter cover on page 18](#).
  - Dummy cover. See [Dummy cover on page 23](#)
  - Rear cover assembly. See [Rear cover assembly on page 24](#).
  - Left cover. See [Left cover on page 28](#).
  - Document feeder/scanner assembly. See [Document feeder/scanner assembly on page 46](#).
  - Tray 1 cover. See [Tray 1 cover on page 32](#).
  - Cartridge-door assembly. See [Cartridge-door assembly on page 34](#).
2. Remove two screws on the front of the product.

**Figure 1-44** Remove the right cover assembly (1 of 5)

3. Remove two screws on the right-side of the product.

**Figure 1-45** Remove the right cover assembly (2 of 5)

4. Remove one screw from the upper-right side of the product.

**Figure 1-46** Remove the right cover assembly (3 of 5)

5. Release one tab, and then slide the cover toward the front of the product to remove.

---

**CAUTION:** Do not damage the covers or the cartridge-door assembly (if you did not remove it) when you remove the cover from the product.

Do not dislodge the power-switch assembly when you rotate the cover assembly away from the product.

---

**Figure 1-47** Remove the right cover assembly (4 of 5)

6. If necessary, remove two screws (callout 1), release two tabs (callout 2), and then slide the front-right cover toward the top of the right-side cover to release it.

**Figure 1-48** Remove the right cover assembly (5 of 5)

## Reinstall the right cover

1. Slide the cover onto the product from the front. Make sure the cover is aligned correctly at the top. The top of the cover should slide over the chassis, and the lower section of the cover should slide behind the chassis.

**Figure 1-49** Reinstall the right cover assembly: correct alignment (1 of 3)

**Figure 1-50** Reinstall the right cover assembly: incorrect alignment (2 of 3)

2. Make sure the two tabs are securely inserted.

**Figure 1-51** Reinstall the right cover assembly (3 of 3)

## Lower right cover

1. Before proceeding, remove the following:
  - Formatter cover. See [Formatter cover on page 18](#).
  - Formatter PCA. See [Formatter PCA on page 19](#).
  - Rear cover assembly. See [Rear cover assembly on page 24](#).
  - Left cover. See [Left cover on page 28](#).
  - Right-rear cover. See [Right-rear cover on page 30](#).
  - Tray 1 cover. See [Tray 1 cover on page 32](#).
  - Cartridge-door assembly. See [Cartridge-door assembly on page 34](#).
  - Right cover assembly. See [Right cover assembly on page 36](#).
2. Remove one screw.

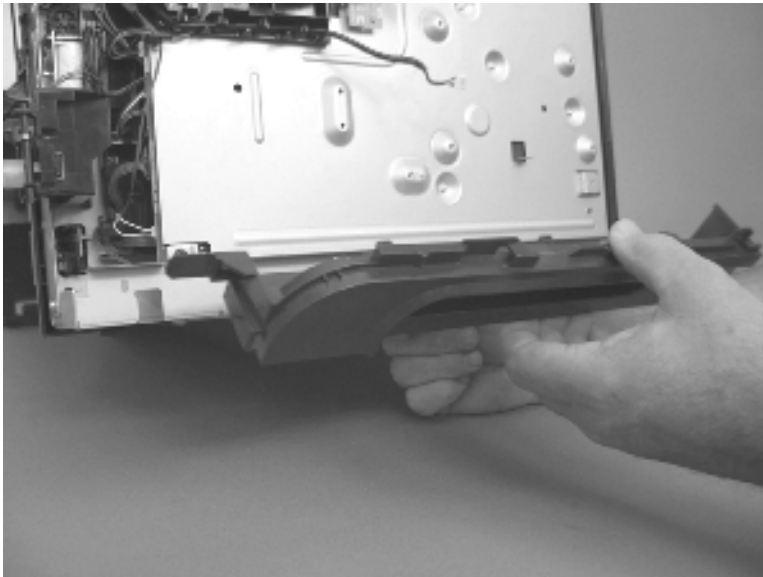
**Figure 1-52** Remove the lower right cover (1 of 3)

3. Raise the right side of the product (callout 1), slide the lower-right cover (callout 2) toward the front of the product, and then rotate the cover away from the product.

**Figure 1-53** Remove the lower right cover (2 of 3)

4. Remove the lower-right cover.

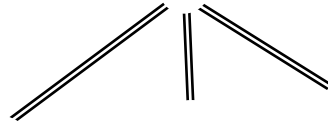
**Figure 1-54** Remove the lower right cover (3 of 3)



## Reinstall the lower right cover

1. Carefully raise the right side of the product, find the three slots in the chassis (callout 1), and the three tabs (callout 2) along the bottom of the cover.

**Figure 1-55** Reinstall the lower right cover (1 of 2)



2. Rotate the cover up to engage the tabs with the slots, and then slide the cover toward the front of the product to install it.

**Figure 1-56** Reinstall the lower right cover (2 of 2)

## I/O plate

1. Before proceeding, remove the following:
  - Formatter cover. See [Formatter cover on page 18](#).
  - Formatter PCA. See [Formatter PCA on page 19](#).
  - Fax PCA. See [Fax PCA and cable on page 20](#).
  - ICB, See [Interconnect board \(ICB\) on page 21](#).
  - Formatter stay. See [Formatter stay on page 22](#).
  - Rear cover assembly. See [Rear cover assembly on page 24](#).
  - Right-rear cover. See [Right-rear cover on page 30](#).
  - Right cover assembly. See [Right cover assembly on page 36](#).
2. Remove three screws.

**Figure 1-57** Remove the I/O plate (1 of 2)

3. Slide the sheet-metal bracket up to release it, and then remove the bracket.



**NOTE:** You might need to pull outward on the lower-right cover (callout 1) to release the sheet-metal bracket.



**Reinstallation tip** When you reinstall the bracket, make sure that the tab is engaged in the slot in the chassis (callout 2).

**Figure 1-58** Remove the I/O plate (2 of 2)

## Document feeder assemblies and scanner

### Document feeder/scanner assembly

1. Before proceeding, remove the following:
  - Formatter cover. See [Formatter cover on page 18](#).
  - Dummy cover. See [Dummy cover on page 23](#).
  - Rear cover assembly. See [Rear cover assembly on page 24](#).
  - Left cover. See [Left cover on page 28](#).
2. Disconnect four FFCs, the FFC holder (held in place by one screw and one tab), and three connectors (M521dw) or two connectors (M521dn) from the formatter PCA.

**Figure 1-59** Remove the document feeder/scanner assembly (1 of 7)



3. Feed the FFCs and connectors through their retainers.

**Figure 1-60** Remove the document feeder/scanner assembly (2 of 7)

4. Disconnect one screw, and then remove the USB ground wire.

**Figure 1-61** Remove the document feeder/scanner assembly (3 of 7)

5. Remove one screw on the right side of the document feeder/scanner assembly.

**Figure 1-62** Remove the document feeder/scanner assembly (4 of 7)

6. Remove one screw on the rear-right side of the document feeder/scanner assembly (callout 1) , and then remove the grounding screw on the rear-left side of the document feeder/scanner assembly (callout 2).

**Figure 1-63** Remove the document feeder/scanner assembly (5 of 7)

7. Remove one screw on the left-side of the document feeder/scanner assembly.



**NOTE:** Rear-right document feeder/scanner ground screw shown still installed in this photo.

**Figure 1-64** Remove the document feeder/scanner assembly (6 of 7)

8. Slide the document feeder/scanner assembly back, and then pull up to remove.

**Figure 1-65** Remove the document feeder/scanner assembly (7 of 7)

## Document feeder/scanner whole unit reinstallation

1. When reinstalling the document feeder/scanner assembly, align the four alignment pins on the bottom of the document feeder/scanner assembly with the slots on the chassis.

**Figure 1-66** Reinstall the document feeder/scanner assembly (1 of 3)



2. Ensure the FFCs and cables are routed through the retainers on the right side of the product.

**Figure 1-67** Reinstall the document feeder/scanner assembly (2 of 3)

3. When reinstalling the document feeder ground wire, tuck the grounding wire to the left side so it does not interfere with reinstallation of the left cover assembly.

**Figure 1-68** Reinstall the document feeder/scanner assembly (3 of 3)

## Document feeder whole unit kit and scanner whole unit kit

Use the following procedure to separate the document feeder assembly from the scanner assembly when either whole unit kit is being replaced.

1. Before proceeding, remove the following:
  - Document feeder/scanner assembly. See [Document feeder/scanner assembly on page 46](#)
2. Carefully place the document feeder/scanner assembly upside down on a flat surface.
3. Remove three screws and remove the scanner rear cover.

**Figure 1-69** Remove the Document feeder whole unit kit and scanner whole unit kit (1 of 6)

4. Carefully separate the adhesive-backed FFC from the document feeder/scanner assembly and remove it from the channel beneath the scanner rear cover.

**Figure 1-70** Remove the Document feeder whole unit kit and scanner whole unit kit (2 of 6)



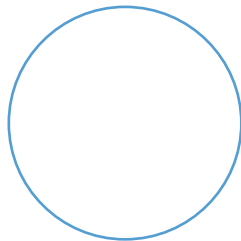
5. Cut the plastic cable ties holding the wire harness to the document feeder/scanner assembly and remove it from the channel beneath scanner rear cover.

 **NOTE:** Replace the cable ties to secure the wire harness when reinstalling the document feeder/scanner whole unit.

---

**Figure 1-71** Remove the Document feeder whole unit kit and scanner whole unit kit (3 of 6)

**Figure 1-72** Remove the Document feeder whole unit kit and scanner whole unit kit (4 of 6)



6. Place the document feeder/scanner assembly right-side up on a flat surface. Lift the document feeder assembly up and release two tabs.

**Figure 1-73** Remove the Document feeder whole unit kit and scanner whole unit kit (5 of 6)

7. Lift the document feeder assembly up and carefully feed the FFC and wire harness through the slot in the scanner assembly to separate the document feeder assembly from the scanner assembly.

**Figure 1-74** Remove the Document feeder whole unit kit and scanner whole unit kit (6 of 6)

#### **Document feeder assembly and scanner assembly reinstallation tips**

1. Install new cable ties for the wire harness.
2. Fit the ferrite core into its slot (callout 1), route the wire harness (callout 2), and then tie off the wire harness with the cable ties.

3. Route the FFC (callout 3) and reattach it.

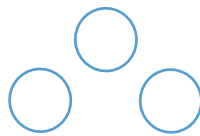
**Figure 1-75** Document feeder assembly and scanner assembly reinstallation tips



## Document feeder hinge assembly

1. Open the document feeder cover.
2. Remove three screws and the document feeder hinge assembly.

**Figure 1-76** Remove the document feeder hinge assembly



## Control-panel top-cover

1. Release two tabs on the under-side of the control-panel assembly.

**Figure 1-77** Remove the control-panel top-cover (1 of 2)

2. Lift the top-cover up to remove.

**Figure 1-78** Remove the control-panel top-cover (2 of 2)

## Control-panel assembly

---

! **WARNING!**  ESD sensitive component.

---

1. Before proceeding, remove the following:
  - Control-panel top-cover. See [Control-panel top-cover on page 57](#).
2. Press forward on the control-panel sub-cover and remove the sub-cover.

**Figure 1-79** Remove the control-panel (1 of 3)

3. Remove the ground screw and wire, the screw holding the control-panel to the tray, and one FFC.

**Figure 1-80** Remove the control-panel (2 of 3)

4. Slide the control-panel assembly forward and remove.

## USB PCA



**NOTE:** It is not necessary to remove the control-panel assembly to remove the USB PCA. However, it might be easier to remove the USB PCA with the control-panel assembly removed.

---

1. Disconnect the ground wire screw and remove the ground wire. Disconnect one screw near the front of the USB PCA subassembly.

**Figure 1-81** Remove the USB PCA (1 of 4)

2. Disconnect the USB cable.

**Figure 1-82** Remove the USB PCA (2 of 4)



**TIP:** When reinstalling the USB PCA assembly, connect the USB cable *before* installing the grounding screw and the screw near the front of the USB PCA assembly.

---

3. Remove the USB PCA subassembly from the chassis.

**Figure 1-83** Remove the USB PCA (3 of 4)

4. Place the USB PCA subassembly on a level surface. Remove two screws, and then remove the USB PCA from the sheet metal bracket.

**Figure 1-84** Remove the USB PCA (4 of 4)

## Control-panel FFC

1. Before proceeding, remove the following:
  - Document feeder/scanner assembly. See [Document feeder assemblies and scanner on page 46](#).
  - Control-panel top cover. See [Control-panel top-cover on page 57](#).

2. Carefully place the document feeder/scanner assembly upside down on a level surface. Carefully separate the black, adhesive-attached scanner and motor FFCs and Wi-Fi module cables from the scanner lower cover.

**Figure 1-85** Remove the control-panel FFC (1 of 6)

3. Remove three screws from the scanner lower cover.

**Figure 1-86** Remove the control-panel FFC (2 of 6)

4. Release one tab and remove the scanner lower cover. Feed the USB and Wi-Fi module cables, and the control-panel FFC, through the openings in the lower cover as you are removing the lower cover.

**Figure 1-87** Remove the control-panel FFC (3 of 6)

5. Press forward on the control-panel sub-cover, and then remove the sub-cover.

**Figure 1-88** Remove the control-panel FFC (4 of 6)

6. Disconnect the control-panel FFC from the control-panel assembly.

**Figure 1-89** Remove the control-panel FFC (5 of 6)

7. Remove the control-panel FFC from the document feeder/scanner assembly.

**Figure 1-90** Remove the control-panel FFC (6 of 6)



## USB cable and USB grounding cable

1. Before proceeding, remove the following:
  - Document feeder/scanner assembly. See [Document feeder assemblies and scanner on page 46](#).

2. Carefully place the document feeder/scanner assembly upside down on a level surface. Carefully separate the black, adhesive-attached scanner and motor FFCs from the scanner lower cover.

**Figure 1-91** Remove the USB cable and USB grounding cable (1 of 5)

3. Remove three screws from the scanner lower cover.

**Figure 1-92** Remove the USB cable and USB grounding cable (2 of 5)

4. Release one tab and remove the scanner lower cover. Feed the USB and Wi-Fi module FFCs and the control-panel FFC through the openings in the lower cover as you are removing the lower cover.

**Figure 1-93** Remove the USB cable and USB grounding cable (3 of 5)

5. Disconnect the USB cable connector from the USB PCA.

**Figure 1-94** Remove the USB cable and USB grounding cable (4 of 5)

6. Feed the USB cable and the USB grounding cable through the slot in cover to remove.

**Figure 1-95** Remove the USB cable and USB grounding cable (5 of 5)



### USB cable re-installation

- ▲ When reinstalling the USB cable, align the white mark on the cable with the slot near the Wi-Fi module.

**Figure 1-96** Reinstall USB cable

### Wi-Fi module and cable

1. Before proceeding, remove the following:
  - Document feeder/scanner assembly. See [Document feeder assemblies and scanner on page 46](#).

2. Carefully place the document feeder/scanner assembly upside down on a level surface. Carefully separate the black, adhesive-attached scanner and motor FFCs and Wi-Fi module FFCs from the scanner lower cover.

**Figure 1-97** Remove the Wi-Fi module and cable (1 of 6)

3. Remove three screws from the scanner lower cover.

**Figure 1-98** Remove the USB cable and USB grounding cable (2 of 6)

4. Release one tab and remove the scanner lower cover. Feed the USB and Wi-Fi module cables and the control-panel FFC through the openings in the lower cover as you are removing the lower cover.

**Figure 1-99** Remove the Wi-Fi module and cable (3 of 6)

5. Remove one screw, and then remove the Wi-Fi module mounting bracket.

**Figure 1-100** Remove the Wi-Fi module and cable (4 of 6)

6. Release two tabs, and then remove the Wi-Fi module from the mounting bracket.

**Figure 1-101** Remove the Wi-Fi module and cable (5 of 6)

7. Disconnect the Wi-Fi cable from the Wi-Fi module.

**Figure 1-102** Remove the Wi-Fi module and cable (6 of 6)

## Main assemblies

### Tray 1 pickup roller

- 
- ! **CAUTION:** Do not touch the surface of the roller. Skin oils deposited on the roller might cause print-quality problems.
- 
1. Press the cartridge-door release button, and then open the cartridge door. Make sure that the door is completely open.

**Figure 1-103** Remove the Tray 1 pickup roller (1 of 2)

2. Release two tabs, and then rotate the roller out and away from the product to remove it.



---

**TIP:** It might be easier to release the tabs by using a small flat-tip screwdriver.

---

**Figure 1-104** Remove the Tray 1 pickup roller (2 of 2)

## Tray 1 separation pad

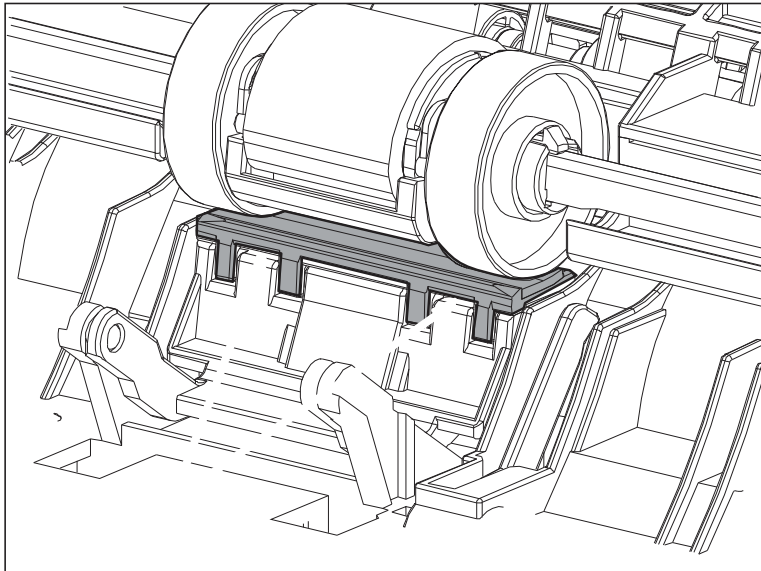
**CAUTION:** Do not touch the surface of the pad. Skin oils deposited on the roller might cause paper-handling problems.

1. Press the cartridge-door release button, and then open the cartridge door. Make sure that the door is completely open.

**Figure 1-105** Remove the Tray 1 separation pad (1 of 2)

2. Release two tabs (callout 1), and then remove the separation pad.

**Figure 1-106** Remove the Tray 1 separation pad (2 of 2)



## Tray 2 or Tray 3 pickup roller

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

 **NOTE:** If you did not remove Tray 2 or Tray 3 before servicing the product, remove them now.

1. Carefully place the product front-side up, so that you can see into the opening where the tray would be installed.

 **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. Release the roller bushing, rotate the bushing up, and then slide the bushing off of the roller shaft.

**Figure 1-107** Remove the Tray 2 or Tray 3 pickup roller (1 of 3)

3. Carefully remove the black-plastic guard (callout 1).

---

**CAUTION:** The guard is partially retained by the bushing removed in the previous step. Do not lose the guard when the bushing is removed.

---

**Figure 1-108** Remove the Tray 2 or Tray 3 pickup roller (2 of 3)

4. Slide the roller toward the left side of the product, rotate the right end of the roller away from the product, and then remove the roller assembly.

**Figure 1-109** Remove the Tray 2 or Tray 3 pickup roller (3 of 3)

## Tray 2 or Tray 3 separation pad

**CAUTION:** Do not touch the surface of the pad. Skin oils deposited on the roller might cause paper-handling problems.

---

1. Remove the tray. See [Tray 2 or Tray 3 assembly on page 13](#).
2. Remove two screws (callout 1), and then remove the separation pad (callout 2).

**Figure 1-110** Remove the Tray 2 or Tray 3 separation pad



## Tray 2 or Tray 3 base-plate roller assembly

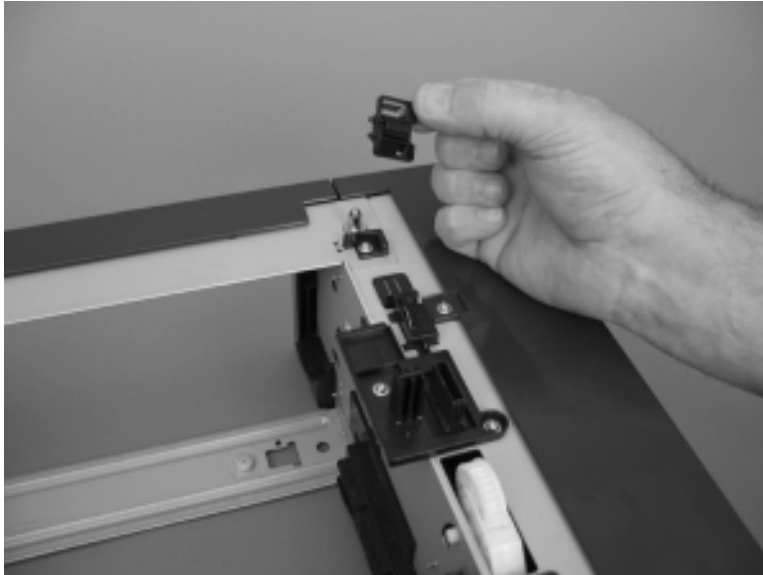
1. Remove the tray. See [Tray 2 or Tray 3 assembly on page 13](#).

2. Locate the base roller assembly (callout 1), release one tab (callout 2), and then slide the assembly toward the outside of the product to release it.

**Figure 1-111** Tray 2 or Tray 3 base-plate roller assembly (1 of 2)

3. Remove the base-plate roller assembly.

**Figure 1-112** Tray 2 or Tray 3 base-plate roller assembly (2 of 2)



## Transfer roller

**CAUTION:** Do not touch the black-sponge portion of the transfer roller. Skin oils deposited on the transfer roller might cause print-quality problems.

1. Press the cartridge-door release button, and then open the cartridge door. Make sure that the door is completely open.

 **NOTE:** If you did not remove the toner cartridge before servicing the product, remove it now.

**Figure 1-113** Remove the transfer roller (1 of 3)

2. Release two tabs (callout 1) at the left end of the roller, slightly lift the end of the roller up, and then slide the roller (callout 2) toward the left to release it. Remove the roller.

**Figure 1-114** Remove the transfer roller (2 of 3)



3. If necessary, remove the gear, the bushing, and the spring, and then install them on a replacement roller.

**Figure 1-115** Remove the transfer roller (3 of 3)

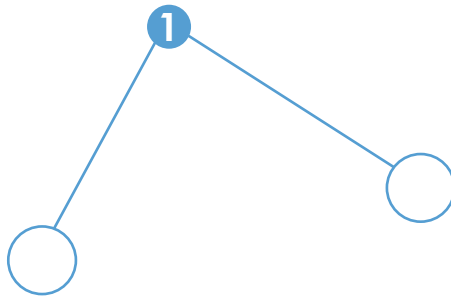
## Fuser

1. Before proceeding, remove the following:
  - Rear cover assembly. See [Rear cover assembly on page 24](#).
  - Right-rear cover. See [Right-rear cover on page 30](#).
2. Release two tabs (callout 1) on the duplex paper-feed guide, and then slide the guide toward the rear of the product to remove it.

 **Reinstallation tip** Make sure that both tabs snap back into place when reinstalling the duplex paper-feed guide.

---

**Figure 1-116** Remove the fuser (1 of 4)



3. Disconnect three connectors (callout 1), and then release one wire harness from the retainer (callout 2).

**Figure 1-117** Remove the fuser (2 of 4)

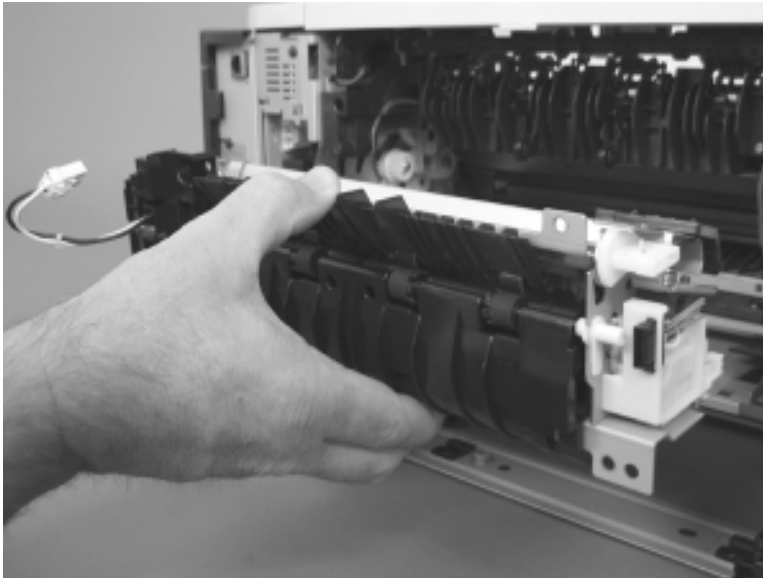
4. Remove four screws (callout 1).

**Figure 1-118** Remove the fuser (3 of 4)

5. Pull the fuser out of the back of the product.

**CAUTION:** To avoid damaging the fuser, the cartridge-door assembly must be closed before you remove the fuser.

**Figure 1-119** Remove the fuser (4 of 4)

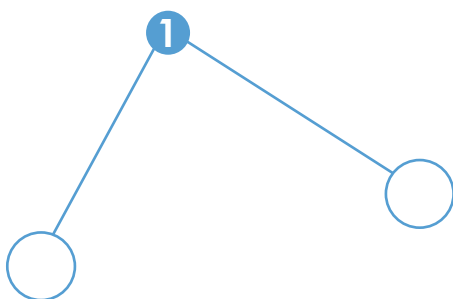


## Duplex paper-feed assembly

1. Before proceeding, remove the following components:
  - Rear cover assembly. See [Rear cover assembly on page 24](#).
  - Right-rear cover. See [Right-rear cover on page 30](#).
2. Release two tabs (callout 1) on the duplex paper-feed guide, and then slide the guide toward the back of the product to remove it.

 **Reinstallation tip** Make sure that both tabs snap back into place when reinstalling the duplex paper-feed guide.

**Figure 1-120** Remove the duplex paper-feed assembly (1 of 5)



3. Press the green lever (callout 1) to release the duplex paper-feed assembly.

**Figure 1-121** Remove the duplex paper-feed assembly (2 of 5)

4. Use a small flat-tip screwdriver to carefully pry the sheet-metal tab on the assembly away from the hinge pin to release it.

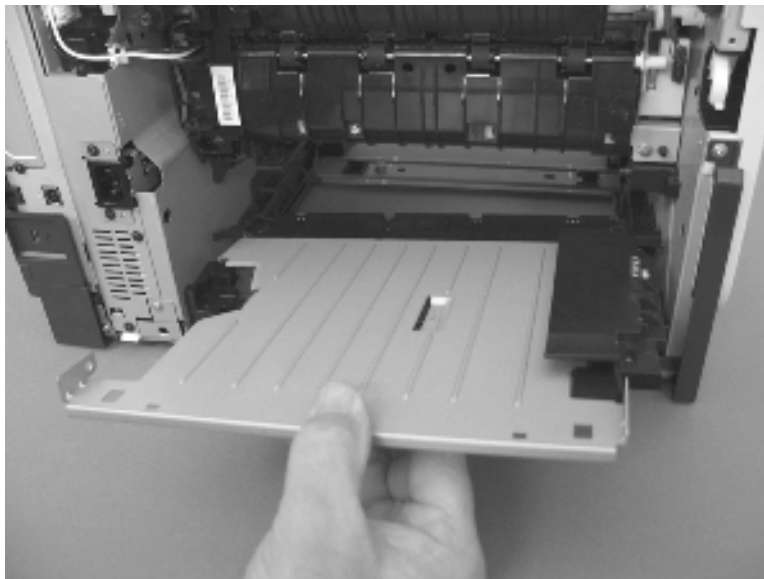
**Figure 1-122** Remove the duplex paper-feed assembly (3 of 5)

5. Slide the assembly away from the other hinge pin to release it.

**Figure 1-123** Remove the duplex paper-feed assembly (4 of 5)

6. Pull the duplex paper-feed assembly out of the back of the product.

**Figure 1-124** Remove the duplex paper-feed assembly (5 of 5)



## Registration roller assembly

1. Before proceeding, remove the following components:
  - Rear cover assembly. See [Rear cover assembly on page 24](#).
  - Left cover. See [Left cover on page 28](#).
2. Unhook the clasp on the registration roller assembly gear (callout 1), and then slide the gear off of the shaft.

**Figure 1-125** Remove the registration roller assembly (1 of 3)

3. Open the cartridge door, and then remove four screws.

**Figure 1-126** Remove the registration roller assembly (2 of 3)

4. Lift the registration roller assembly out of the product, gear-end first.

**Figure 1-127** Removing the registration roller assembly (3 of 3)



## Power-switch assembly

---

! **WARNING!**  ESD sensitive component.

---

1. Before proceeding, remove the following:
  - Formatter cover. See [Formatter cover on page 18](#).
  - Dummy cover. See [Dummy cover on page 23](#).
  - Rear cover assembly. See [Rear cover assembly on page 24](#).
  - Left cover. See [Left cover on page 28](#).
  - Tray 1 cover. See [Tray 1 cover on page 32](#).
  - Cartridge-door assembly. See [Cartridge-door assembly on page 34](#).
  - Right cover assembly. See [Right cover assembly on page 36](#).
2. Disconnect one connector (callout 1), remove one screw (callout 2), and then remove the power-switch assembly.

**Figure 1-128** Remove the power-switch assembly (1 of 2)

## Interlock-switch assembly

---

! **WARNING!**  ESD sensitive component.

---

1. Before proceeding, remove the following:
  - Formatter cover. See [Formatter cover on page 18](#).
  - Dummy cover. See [Dummy cover on page 23](#).
  - Rear cover assembly. See [Rear cover assembly on page 24](#).
  - Left cover. See [Left cover on page 28](#).
  - Tray 1 cover. See [Tray 1 cover on page 32](#).
  - Cartridge-door assembly. See [Cartridge-door assembly on page 34](#).
  - Right cover assembly. See [Right cover assembly on page 36](#).
2. Disconnect one connector (callout 1).

**Figure 1-129** Remove the interlock-switch assembly (1 of 3)

3. Remove one screw (callout 1), and then carefully remove the interlock switch assembly.

---

**CAUTION:** The interlock switch is still connected to the product by two wires.

---

**Figure 1-130** Remove the interlock-switch assembly (2 of 3)

4. Release two tabs (callout 1), and then carefully remove two wire connectors.

**Figure 1-131** Remove the interlock-switch assembly (3 of 3)

## Tray sensor PCA

---

! **WARNING!**  ESD sensitive component.

---

1. Before proceeding, remove the following:
  - Formatter cover. See [Formatter cover on page 18](#).
  - Dummy cover. See [Dummy cover on page 23](#).
  - Rear cover assembly. See [Rear cover assembly on page 24](#).
  - Left cover. See [Left cover on page 28](#).
  - Tray 1 cover. See [Tray 1 cover on page 32](#).
  - Cartridge-door assembly. See [Cartridge-door assembly on page 34](#).
  - Right cover assembly. See [Right cover assembly on page 36](#).
2. Disconnect one connector.

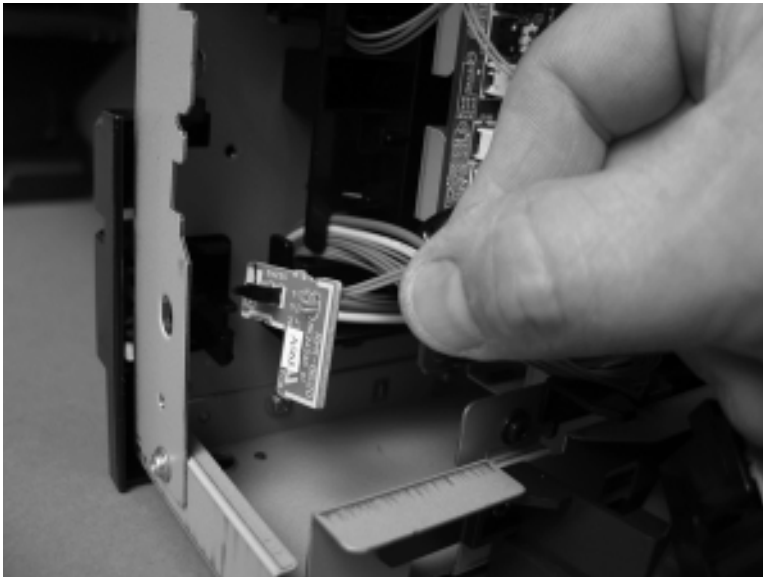
**Figure 1-132** Remove the tray sensor PCA (1 of 3)

3. Release one tab.

**Figure 1-133** Remove the tray sensor PCA (2 of 3)

4. Remove the PCA.

**Figure 1-134** Remove the tray sensor PCA (3 of 3)



## Main fan

---

! **WARNING!**  ESD sensitive component.

---

1. Before proceeding, remove the following:
  - Formatter cover. See [Formatter cover on page 18](#).
  - Dummy cover. See [Dummy cover on page 23](#).
  - Rear cover assembly. See [Rear cover assembly on page 24](#).
  - Left cover. See [Left cover on page 28](#).
  - Tray 1 cover. See [Tray 1 cover on page 32](#).
  - Cartridge-door assembly. See [Cartridge-door assembly on page 34](#).
  - Right cover assembly. See [Right cover assembly on page 36](#).
2. Disconnect one connector and then release the wire harnesses from the retainers.

**Figure 1-135** Remove the main fan (1 of 3)

3. **To remove the main fan only:** Release two tabs (callout 1), and then remove the main fan.



**Reinstallation tip** A third tab (callout 2) cannot be engaged.

---

**Reinstallation tip** **If only the main fan was removed:** When the fan is reinstalled, the air must flow into the product. Make sure that the label side of the fan is toward the inside of the product when the fan is reinstalled.

---

**Figure 1-136** Remove the main fan (2 of 3)

4. **To remove the main fan and fan duct:** Remove one self-tapping screw (callout 1) and one metal screw (callout 2) and then remove the main fan and fan duct together.

**Figure 1-137** Remove the main fan (3 of 3)

## Top cover

1. Before proceeding, remove the following:
  - Formatter cover. See [Formatter cover on page 18](#).
  - Dummy cover. See [Dummy cover on page 23](#).
  - Rear cover assembly. See [Rear cover assembly on page 24](#).
  - Left cover. See [Left cover on page 28](#).
  - Document feeder/scanner assembly. See [Document feeder/scanner assembly on page 46](#).
2. From the right side of the product, remove two self-tapping screws.

**Figure 1-138** Remove the top cover (1 of 4)

3. From the left side of the product, remove two self-tapping screws.

**Figure 1-139** Remove the top cover (2 of 4)

4. Separate each side of the top cover from the chassis.

**Figure 1-140** Remove the top cover (3 of 4)

5. Slide cover toward the front of the product (callout 1), and then lift the front of the cover (callout 2) to remove.

**Figure 1-141** Remove the top cover (4 of 4)

### Reinstall the top cover

- ▲ Make sure the tabs on the chassis are correctly inserted into the slots on the cover.

**Figure 1-142** Reinstall the top cover

## Laser scanner

---

**! WARNING!**  ESD sensitive component.

---

1. Before proceeding, remove the following:
  - Formatter cover. See [Formatter cover on page 18](#).
  - Dummy cover. See [Dummy cover on page 23](#).
  - Rear cover assembly. See [Rear cover assembly on page 24](#).
  - Left cover. See [Left cover on page 28](#).
  - Document feeder/scanner assembly. See [Document feeder/scanner assembly on page 46](#).
  - Top cover. See [Top cover on page 95](#).
2. Release one tab (callout 1) on the air duct, and then lift the air duct (callout 2) out of the product.

**Figure 1-143** Remove the laser scanner (1 of 5)

3. Remove the antistatic sponge (callout 1).

**Figure 1-144** Remove the laser scanner (2 of 5)

4. Disconnect one connector (callout 1) and one FFC (callout 2).



**Reinstallation tip** Make sure that you correctly reconnect the FFC when the laser scanner is installed. If the FFC is not correctly reconnected, a **51.1 ERROR** will appear on the control-panel display.

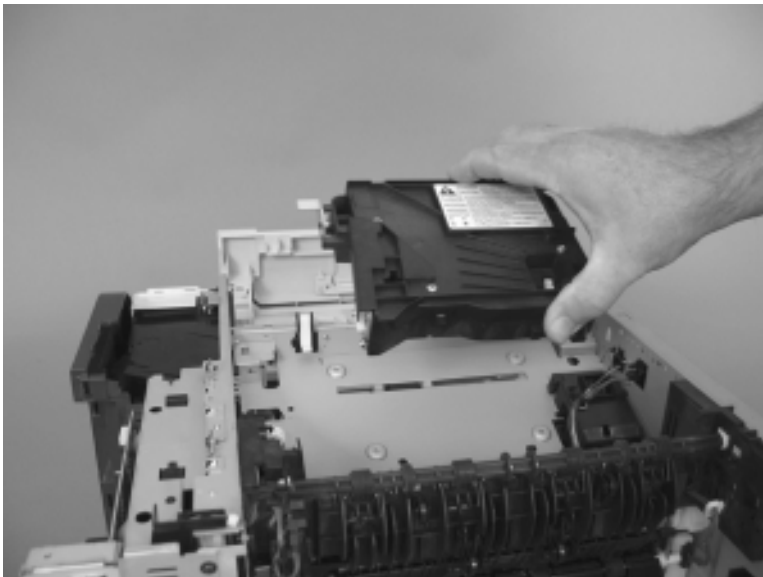
**Figure 1-145** Remove the laser scanner (3 of 5)

5. Remove four screws (callout 1).

**Figure 1-146** Remove the laser scanner (4 of 5)

6. Lift the laser scanner up and out of the product.

**Figure 1-147** Remove the laser scanner (5 of 5)



## Tag holder assembly

1. Before proceeding, remove the following:
  - Formatter cover. See [Formatter cover on page 18](#).
  - Dummy cover. See [Dummy cover on page 23](#).
  - Rear cover assembly. See [Rear cover assembly on page 24](#).
  - Left cover. See [Left cover on page 28](#).
  - Document feeder/scanner assembly. See [Document feeder/scanner assembly on page 46](#).
  - Top cover. See [Top cover on page 95](#).
2. Disconnect one connector (callout 1), remove one screw (callout 2), and release one tab (callout 3). Release the wire harness (callout 4) from its holders and the DC controller, and then remove the tag holder assembly.

**Figure 1-148** Remove the tag holder assembly

## DC controller

---

**! WARNING!**  ESD sensitive component.

---

1. Before proceeding, remove the following:
  - Formatter cover. See [Formatter cover on page 18](#).
  - Dummy cover. See [Dummy cover on page 23](#).
  - Rear cover assembly. See [Rear cover assembly on page 24](#).
  - Left cover. See [Left cover on page 28](#).
  - Tray 1 cover. See [Tray 1 cover on page 32](#).
  - Cartridge-door assembly. See [Cartridge-door assembly on page 34](#).
  - Right cover assembly. See [Right cover assembly on page 36](#).
  - Lower right cover. See [Lower right cover on page 41](#).
2. Disconnect 17 connectors and three FFCs.

---

 **NOTE:** One connector (callout 1) remains empty.

 **NOTE:** To locate DC controller connector locations, see [DC controller connections on page 7](#).

---

**Figure 1-149** Remove the DC controller (1 of 6)

3. Release two tabs, and then carefully remove two wire connectors from the interlock switch assembly.

 **TIP:** It might be easier to release these connectors by first removing the interlock switch. See [Interlock-switch assembly on page 89](#).

---

**Figure 1-150** Remove the DC controller (2 of 6)

**Figure 1-151** Remove the DC controller (3 of 6)

4. **DC controller only:** Remove four screws and then remove the PCA.

**Figure 1-152** Remove the DC controller (4 of 6)

5. **DC controller and sheet-metal plate:** Do the following.

- a. Remove two screws (callout 1), and then remove the fan and duct assembly (callout 2).

**Figure 1-153** Remove the DC controller (5 of 6)

- b.** Remove two screws (callout 1), and then remove the PCA and sheet-metal plate.

**Figure 1-154** Remove the DC controller (6 of 6)

## Low-voltage power supply (LVPS)

---

! **WARNING!**  ESD sensitive component.

---

1. Before proceeding, remove the following:
  - Formatter cover. See [Formatter cover on page 18](#).
  - Dummy cover. See [Dummy cover on page 23](#).
  - Formatter PCA. See [Formatter PCA on page 19](#).
  - Rear cover assembly. See [Rear cover assembly on page 24](#).
  - Left cover. See [Left cover on page 28](#).
  - Right-rear cover. See [Right-rear cover on page 30](#).
  - Tray 1 cover. See [Tray 1 cover on page 32](#).
  - Cartridge-door assembly. See [Cartridge-door assembly on page 34](#).
  - Right cover assembly. See [Right cover assembly on page 36](#).
  - Lower right cover. See [Lower right cover on page 41](#).
  - Document feeder/scanner assembly. See [Document feeder/scanner assembly on page 46](#).
  - Top cover. See [Top cover on page 95](#).
2. Remove three screws.

**Figure 1-155** Remove the LVPS (1 of 10)

3. Remove one screw (callout 1), the wire harness holder (callout 2), and the sheet-metal bracket (callout 3).

---

 **TIP:** If the wire harness holder (callout 2) becomes dislodged, replace it as shown below.

---

**Figure 1-156** Remove the LVPS (2 of 10)



4. Remove two screws and the plastic retainer.

**Figure 1-157** Remove the LVPS (3 of 10)

5. Remove two screws and the sheet metal bracket.

**Figure 1-158** Remove the LVPS (4 of 10)

6. Remove the main fan. See [Main fan on page 93](#).
7. Disconnect eight connectors and two FFCs from the DC controller.



**NOTE:** To locate DC controller connector locations, see [DC controller connections on page 7](#).

**Figure 1-159** Remove the LVPS (5 of 10)

8. Release the wire harness from the holders.

**Figure 1-160** Remove the LVPS (6 of 10)

9. Remove six screws (callout 1) and disconnect one connector (callout 2).

**Figure 1-161** Remove the LVPS (7 of 10)

10. Lift the LVPS to clear two tabs.

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

11. Tip the LVPS away from the product (callout 1) and then disconnect one FFC (callout 2).

**Figure 1-163** Remove the LVPS (9 of 10)



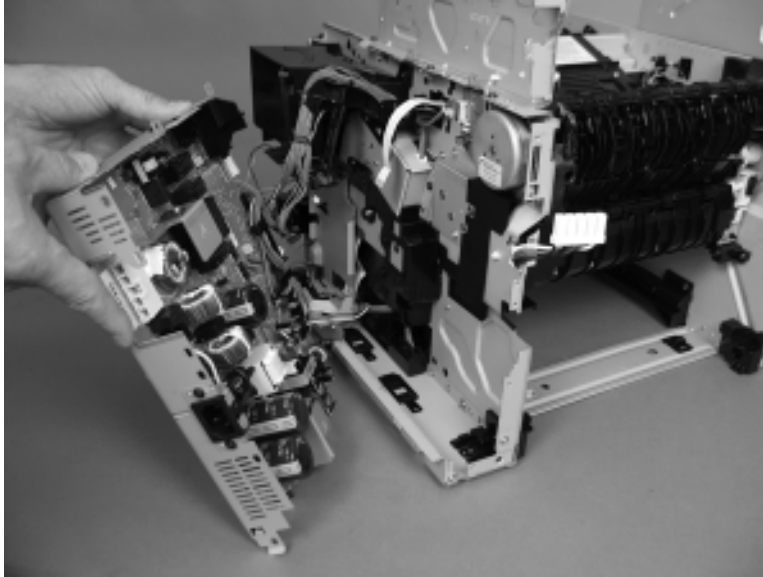
---

**Reinstallation tip** Make sure to reconnect the FFC. A 51 error will occur if it is not connected.

---

**12.** Remove the LVPS.

**Figure 1-164** Remove the LVPS (10 of 10)



**Reinstall the LVPS**

- ▲ The black plastic cap can become dislodged when removing the LVPS. Reattach the cap before reinstalling the assembly.



**NOTE:** Be sure to reconnect the FFC. A 51 error will occur if it is not connected.

**Figure 1-165** Reinstall the LVPS

## Tray 2 paper pickup assembly

1. Before proceeding, remove the following:
  - Formatter cover. See [Formatter cover on page 18](#).
  - Dummy cover. See [Dummy cover on page 23](#).
  - Rear cover assembly. See [Rear cover assembly on page 24](#).
  - Left cover. See [Left cover on page 28](#).
  - Right-rear cover. See [Right-rear cover on page 30](#).
  - Tray 1 cover. See [Tray 1 cover on page 32](#).
  - Right cover assembly. See [Right cover assembly on page 36](#).
  - Cartridge-door assembly. See [Cartridge-door assembly on page 34](#).
  - Lower right cover. See [Lower right cover on page 41](#).
  - Document feeder/scanner assembly. See [Document feeder/scanner assembly on page 46](#).
  - Duplex paper-feed assembly. See [Duplex paper-feed assembly on page 83](#).
  - Top cover. See [Top cover on page 95](#).
  - DC controller. See [DC controller on page 102](#).
  - Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 106](#).

2. Turn the product on its side. Remove one screw (callout 1).



**NOTE:** In this figure the gear cover is shown removed for clarity. Do not remove the gear cover yet. The gears behind the cover are not captive and can easily be dislodged if the cover is removed at this time.

**Figure 1-166** Remove the Tray 2 paper pickup assembly (1 of 10)

3. Remove one screw (callout 1), and then remove the base-plate (callout 2).



**Reinstallation tip** Be sure to correctly align the base-plate. It should match the base-plate at the rear of the product.

**Figure 1-167** Remove the Tray 2 paper pickup assembly (2 of 10)

4. Remove one screw (callout 1), and then carefully remove the right-side guide (callout 2).

---

**CAUTION:** Remove the guide carefully. The solenoid and cable remain attached to the guide during removal.

---

**Figure 1-168** Remove the Tray 2 paper pickup assembly (3 of 10)



5. Remove one screw (callout 1), and then remove the left-side guide (callout 2).

**Figure 1-169** Remove the Tray 2 paper pickup assembly (4 of 10)



6. Remove one screw (callout 1), release one tab (callout 2), and then slide the guide toward the front of the product to release it. Remove the guide.

**Figure 1-170** Remove the Tray 2 paper pickup assembly (5 of 10)



7. Put the product on its side so that the gear cover faces up. Remove three screws (callout 1) and the gear cover.

---

 **Reinstallation tip** Note the location of the FFC (callout 2) and the shaft (callout 3) for reinstallation.

---

**Figure 1-171** Remove the Tray 2 paper pickup assembly (6 of 10)

8. Disconnect one connector.

**Figure 1-172** Remove the Tray 2 paper pickup assembly (7 of 10)

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

**Figure 1-173** Remove the Tray 2 paper pickup assembly (8 of 10)

10. Remove two screws (callout 1) and the idler roller assembly (callout 2).

**Figure 1-174** Remove the Tray 2 paper pickup assembly (9 of 10)

11. Remove four screws and the Tray 2 paper pickup assembly. Rotate the left side of the assembly away from the product first, and then remove the right side of the assembly.

---

 **Reinstallation tip** Reinstall the right side of the assembly first and then install the left side of the assembly.

---

**Figure 1-175** Remove the Tray 2 paper pickup assembly (10 of 10)

## Tray 1 or Tray 2 pickup solenoid

1. Before proceeding, remove the following:
  - Formatter cover. See [Formatter cover on page 18](#).
  - Dummy cover. See [Dummy cover on page 23](#).
  - Formatter PCA. See [Formatter PCA on page 19](#).
  - Rear cover assembly. See [Rear cover assembly on page 24](#).
  - Left cover. See [Left cover on page 28](#).
  - Right-rear cover. See [Right-rear cover on page 30](#).
  - Tray 1 cover. See [Tray 1 cover on page 32](#).
  - Cartridge-door assembly. See [Cartridge-door assembly on page 34](#).
  - Right cover assembly. See [Right cover assembly on page 36](#).
  - Lower right cover. See [Lower right cover on page 41](#).
  - Document feeder/scanner assembly. See [Document feeder/scanner assembly on page 46](#).
  - Top cover. See [Top cover on page 95](#).
  - DC controller. See [DC controller on page 102](#).
  - Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 106](#).
2. Carefully unwind the wire harness (callout 1) from the retainer on the gear cover (callout 2).

---

 **Reinstallation tip** When you reinstall the gear cover, make sure that you wrap the solenoid-wire harness around the retainer one and one-half times in a clockwise direction.

---

**Figure 1-176** Remove the Tray 1 or Tray 2 pickup solenoid (1 of 3)



3. Put the product on its side so that the gear cover faces up. Remove three screws (callout 1) and the gear cover.

---

 **Reinstallation tip** Note the location of the FFC (callout 2) and the shaft (callout 3) for reinstallation.

---

**Figure 1-177** Remove the Tray 1 or Tray 2 pickup solenoid (2 of 3)

4. **For the Tray 2 pickup solenoid:** Remove one screw (callout 1), and then remove the solenoid (callout 2).

**For the Tray 1 pickup solenoid:** Remove one screw (callout 3), and then remove the solenoid (callout 4).

**Figure 1-178** Remove the Tray 1 or Tray 2 pickup solenoid (3 of 3)

---

 **TIP:** Thread the FFC (callout 6) through the gear cover when reinstalling, and make sure to reinstall the gear (callout 5) if it becomes dislodged.

---

## Fuser motor

---

! **WARNING!**  ESD sensitive component.

---

1. Before proceeding, remove the following:
  - Formatter cover. See [Formatter cover on page 18](#).
  - Dummy cover. See [Dummy cover on page 23](#).
  - Formatter PCA. See [Formatter PCA on page 19](#).
  - Rear cover assembly. See [Rear cover assembly on page 24](#).
  - Left cover. See [Left cover on page 28](#).
  - Right-rear cover. See [Right-rear cover on page 30](#).
  - Tray 1 cover. See [Tray 1 cover on page 32](#).
  - Cartridge-door assembly. See [Cartridge-door assembly on page 34](#).
  - Right cover assembly. See [Right cover assembly on page 36](#).
  - Lower right cover. See [Lower right cover on page 41](#).
  - Document feeder/scanner assembly. See [Document feeder/scanner assembly on page 46](#).
  - Top cover. See [Top cover on page 95](#).
  - DC controller. See [DC controller on page 102](#).
  - Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 106](#).
2. Disconnect one connector (callout 1), remove three screws (callout 2), and then remove the fuser motor.

**Figure 1-179** Remove the fuser motor

## Pendulum assembly

1. Before proceeding, remove the following:
  - Formatter cover. See [Formatter cover on page 18](#).
  - Dummy cover. See [Dummy cover on page 23](#).
  - Formatter PCA. See [Formatter PCA on page 19](#).
  - Rear cover assembly. See [Rear cover assembly on page 24](#).
  - Left cover. See [Left cover on page 28](#).
  - Right-rear cover. See [Right-rear cover on page 30](#).
  - Tray 1 cover. See [Tray 1 cover on page 32](#).
  - Cartridge-door assembly. See [Cartridge-door assembly on page 34](#).
  - Right cover assembly. See [Right cover assembly on page 36](#).
  - Lower right cover. See [Lower right cover on page 41](#).
  - Document feeder/scanner assembly. See [Document feeder/scanner assembly on page 46](#).
  - Top cover. See [Top cover on page 95](#).
  - DC controller. See [DC controller on page 102](#).
  - Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 106](#).
  - Fuser motor. See [Fuser motor on page 120](#).
2. On the right side of the product, remove two screws.

**Figure 1-180** Remove the pendulum assembly (1 of 4)

3. On the left side of the product, remove two screws.

**Figure 1-181** Remove the pendulum assembly (2 of 4)

4. Release four wire harness holders from the chassis and then rotate the output bin roller assembly up to expose the pendulum assembly.



---

**TIP:** Use needle-nose pliers to release the wire harness holders.

---

**Figure 1-182** Remove the pendulum assembly (3 of 4)

5. Remove one e-clip (callout 1) and the assembly (callout 2).

**Figure 1-183** Remove the pendulum assembly (4 of 4)

## Sub fan and fan duct

1. Before proceeding, remove the following:
  - Formatter cover. See [Formatter cover on page 18](#).
  - Dummy cover. See [Dummy cover on page 23](#).
  - Formatter PCA. See [Formatter PCA on page 19](#).
  - Rear cover assembly. See [Rear cover assembly on page 24](#).
  - Left cover. See [Left cover on page 28](#).
  - Right-rear cover. See [Right-rear cover on page 30](#).
  - Tray 1 cover. See [Tray 1 cover on page 32](#).
  - Cartridge-door assembly. See [Cartridge-door assembly on page 34](#).
  - Right cover assembly. See [Right cover assembly on page 36](#).
  - Lower right cover. See [Lower right cover on page 41](#).
  - Document feeder/scanner assembly. See [Document feeder/scanner assembly on page 46](#).
  - Top cover. See [Top cover on page 95](#).
  - DC controller. See [DC controller on page 102](#).
  - Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 106](#).
2. Disconnect one connector (callout 1).

**Figure 1-184** Remove the sub fan and fan duct (1 of 5)

3. Release the wire harness from the retainers (callout 1), and then feed the wire harness through the opening in the chassis (callout 2).

**Figure 1-185** Remove the sub fan and fan duct (2 of 5)

4. Release the wire harness from the retainers (callout 1).

**Figure 1-186** Remove the sub fan and fan duct (3 of 5)

- 5. To remove the fan and duct:** Remove two screws (callout 1), and then carefully remove the fan and duct.

 **NOTE:** If necessary, release the metal static clip, release two tabs and separate the fan from the duct.

---

**Figure 1-187** Remove the sub fan and fan duct (4 of 5)

- 6. To remove the fan only:** Release the metal static clip, release two tabs (callout 1), and then remove the sub fan.

 **Reinstallation tip** If you install a replacement sub fan, the air must flow into the product. Arrows embossed on the fan frame indicate air flow direction.

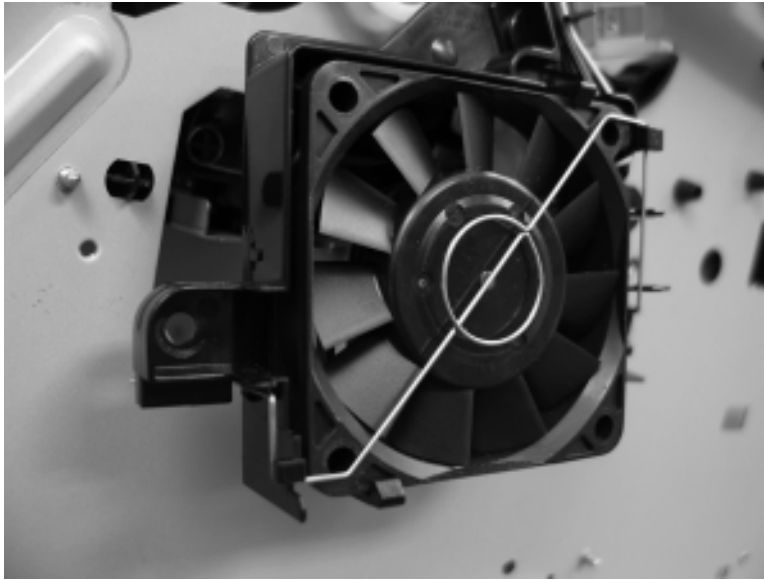
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**Figure 1-188** Remove the sub fan and fan duct (5 of 5)

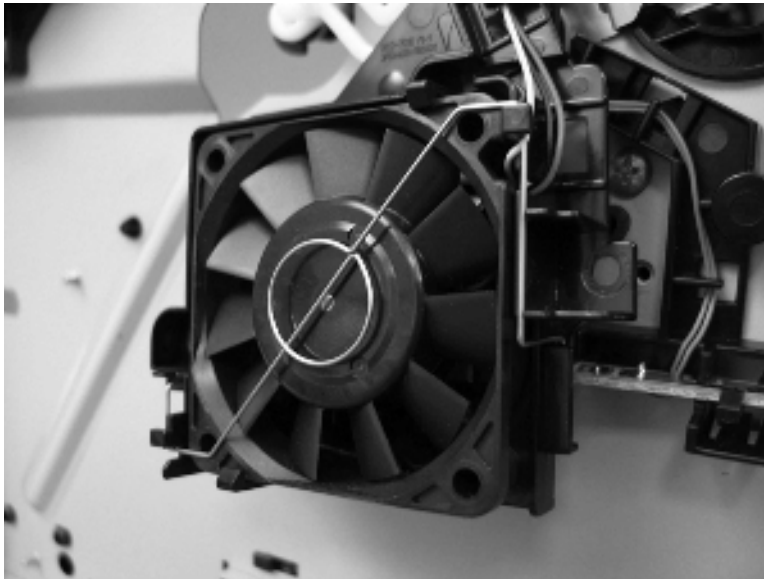
## Reinstall the sub fan

- ▲ Make sure to correctly reinstall the metal static clip.

**Figure 1-189** Reinstall the sub fan (1 of 2)



**Figure 1-190** Reinstall the sub fan (2 of 2)



## Environmental sensor

1. Before proceeding, remove the following:
  - Formatter cover. See [Formatter cover on page 18](#).
  - Dummy cover. See [Dummy cover on page 23](#).
  - Formatter PCA. See [Formatter PCA on page 19](#).
  - Rear cover assembly. See [Rear cover assembly on page 24](#).
  - Left cover. See [Left cover on page 28](#).
  - Right-rear cover. See [Right-rear cover on page 30](#).
  - Tray 1 cover. See [Tray 1 cover on page 32](#).
  - Cartridge-door assembly. See [Cartridge-door assembly on page 34](#).
  - Right cover assembly. See [Right cover assembly on page 36](#).
  - Lower right cover. See [Lower right cover on page 41](#).
  - Document feeder/scanner assembly. See [Document feeder/scanner assembly on page 46](#).
  - Top cover. See [Top cover on page 95](#).
  - DC controller and sheet-metal plate. See [DC controller on page 102](#).
  - Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 106](#).
2. Release one tab (callout 1), and then release the sensor. Release the wire harness (callout 2) from the retainers.

**Figure 1-191** Remove the environmental sensor (1 of 2)

3. Release the wire harness from the retainers (callout 1), and then remove the sensor.

**Figure 1-192** Remove the environmental sensor (2 of 2)

## High-voltage power supply (HVPS)

**1.** Before proceeding, remove the following:

- Formatter cover. See [Formatter cover on page 18](#).
- Dummy cover. See [Dummy cover on page 23](#).
- Formatter PCA. See [Formatter PCA on page 19](#).
- Rear cover assembly. See [Rear cover assembly on page 24](#).
- Left cover. See [Left cover on page 28](#).
- Right-rear cover. See [Right-rear cover on page 30](#).
- Tray 1 cover. See [Tray 1 cover on page 32](#).
- Cartridge-door assembly. See [Cartridge-door assembly on page 34](#).
- Right cover assembly. See [Right cover assembly on page 36](#).
- Lower right cover. See [Lower right cover on page 41](#).
- Document feeder/scanner assembly. See [Document feeder/scanner assembly on page 46](#).
- Duplex paper-feed assembly. See [Duplex paper-feed assembly on page 83](#).
- Top cover. See [Top cover on page 95](#).
- DC controller and sheet-metal plate. See [DC controller on page 102](#).
- Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 106](#).

2. Place the product on its side with the gear cover facing up. Remove one screw (callout 1).



**NOTE:** In this figure the gear cover is shown removed for clarity. Do not remove the gear cover. The gears behind the cover are not captive and can easily be dislodged if the cover is removed.

**Figure 1-193** Remove the HVPS (1 of 12)

3. Place the product on its rear side. Remove one screw, and then remove the base-plate (callout 2).



**Reinstallation tip** Be sure to correctly align the base-plate. It should match the base-plate at the rear of the product.

**Figure 1-194** Remove the HVPS (2 of 12)

4. Remove one screw (callout 1), and then remove the right-side guide (callout 2).

---

**CAUTION:** Use the caution. The solenoid is still attached.

---

**Figure 1-195** Remove the HVPS (3 of 12)



5. Remove one screw (callout 1), and then remove the left-side guide (callout 2).

**Figure 1-196** Remove the HVPS (4 of 12)



6. Disconnect one connector.

**Figure 1-197** Remove the HVPS (5 of 12)

7. Remove one screw (callout 1), release one tab (callout 2), and then slide the guide toward the front of the product to release it.

**Figure 1-198** Remove the HVPS (6 of 12)



8. Remove two screws (callout 1), and then release one tab (callout 2). Let the sub fan and environmental sensor hang from their wire harnesses.

**Figure 1-199** Remove the HVPS (7 of 12)

9. Remove two screws (callout 1), and then disconnect one connector (callout 2).

**Figure 1-200** Remove the HVPS (8 of 12)

10. Remove one screw (callout 1).

**Figure 1-201** Remove the HVPS (9 of 12)

11. Place the product face-side up. Remove two screws (callout 1), and then remove the positioning guide (callout 2).

---

**CAUTION:** When you place the product face-side up, do not damage the rear-door link arm on the left side of the product.

 **NOTE:** The positioning guide might appear to still be fastened to the product. You might have to use slight force to separate it from the product.

---

**Figure 1-202** Remove the HVPS (10 of 12)



- 12.** Remove two screws (callout 1), and then remove the plate (callout 2).

**Figure 1-203** Remove the HVPS (11 of 12)



- 13.** Remove three screws (callout 1), and then remove the HVPS (callout 2).



**NOTE:** Disconnect three connectors and one FFC (callout 3) on the HPVS as you separate the it from the product.

**Figure 1-204** Remove the HVPS (12 of 12)



## Reinstall the HVPS

- ▲ Make sure the HVPS is installed as straight as possible and that it aligns correctly with the grounding springs.

**Figure 1-205** Reinstall the HVPS



---

## 2 Parts and diagrams

- [Order parts by authorized service providers](#)
- [Related documentation and software](#)
- [Fasteners used in this product](#)
- [How to use the parts lists and diagrams](#)
- [Assembly locations](#)
- [Covers](#)
- [Document feeder and scanner assemblies](#)
- [Control-panel and USB PCA assemblies](#)
- [Document feeder assemblies](#)
- [Internal assemblies \(1 of 6\)](#)
- [Internal assemblies \(2 of 6\)](#)
- [Internal assemblies \(3 of 6\)](#)
- [Internal assemblies \(4 of 6\)](#)
- [Internal assemblies \(5 of 6\)](#)
- [Internal assemblies \(6 of 6\)](#)
- [Input devices](#)
- [Alphabetical parts list](#)
- [Numerical parts list](#)

# Order parts by authorized service providers

## Order parts, accessories, and supplies

**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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Order using HP software                    | For information about using the HP software to order parts, accessories, and supplies, see the product user guide.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Power cables                               | 8121-0564; India 220 v, 6A<br>8121-0729; Argentina 220 v, 10A<br>8121-0731; Korea, EU generic 220 v, 10A<br>8121-0733; Denmark 220 v, 10A<br>8121-0734; Thailand, Philippines 220/110 v<br>8121-0735; South America, Chile, Peru 220 v, 10A<br>8121-0737; South Africa 220 v, 10A<br>8121-0738; Switzerland 220 v, 10A<br>8121-0739; UK, Asia Pacific 220 v, 10A<br>8121-0740; North America 110 v, 13A<br>8121-0837; Australia, New Zealand 220 v, 10A<br>8121-0943; China 220 v, 10A<br>8121-0964; Taiwan 110 v, 13A<br>8121-1004; Israel 220 v, 10A<br>8121-1071; Brazil 110 v, 10A |

## Supplies part numbers

**Table 2-2 Supplies part numbers**

| Item                        | Description                 | Part number |
|-----------------------------|-----------------------------|-------------|
| HP LaserJet toner cartridge | Standard-capacity cartridge | CE255-67901 |
|                             | High-capacity cartridge     | CE255-67902 |

## Customer self-repair (CSR) and service kits

**Table 2-3 Customer self-repair (CSR) and service kits**

| Item                                                    | Part number |
|---------------------------------------------------------|-------------|
| Tray 1 cover kit; includes name plate & HP logo         | A8P80-65010 |
| Complete 500-sheet feeder for Tray 3; includes cassette | CE530-69001 |
| ADF whole unit kit                                      | A8P79-65014 |
| Scanner (flatbed) whole unit kit                        | A8P79-65015 |
| ADF roller maintenance kit                              | A8P79-65001 |
| ADF separation pad maintenance kit                      | A8P79-65010 |
| Fax two ports relevant kit                              | A8P79-65019 |
| Service PM kit                                          | CF116-67903 |



# How to use the parts lists and diagrams

**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. Doing so will make sure that the part number selected is for the correct model.

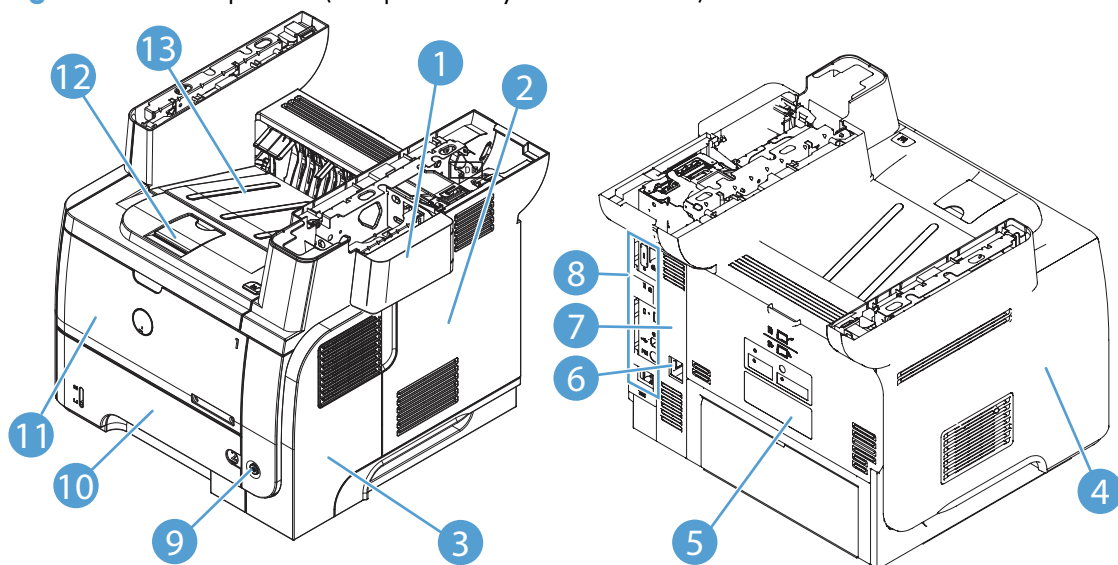
**NOTE:** In this manual, the abbreviation “PCA” stands for “printed circuit-board assembly.” Components described as a PCA might consist of a single circuit board or a circuit board plus other parts, such as cables and sensors.

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).

## Assembly locations

### Base product (no optional trays or accessories)

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



| Item | Description      | Item | Description                         |
|------|------------------|------|-------------------------------------|
| 1    | Dummy cover      | 8    | I/O plate                           |
| 2    | Formatter cover  | 9    | Power switch                        |
| 3    | Right cover      | 10   | Tray 2                              |
| 4    | Left cover       | 11   | Tray 1/Cartridge drawer door        |
| 5    | Rear door        | 12   | Output-bin extension for long paper |
| 6    | Power port       | 13   | Standard output bin                 |
| 7    | Right-rear cover |      |                                     |

Base product (optional trays or accessories)

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

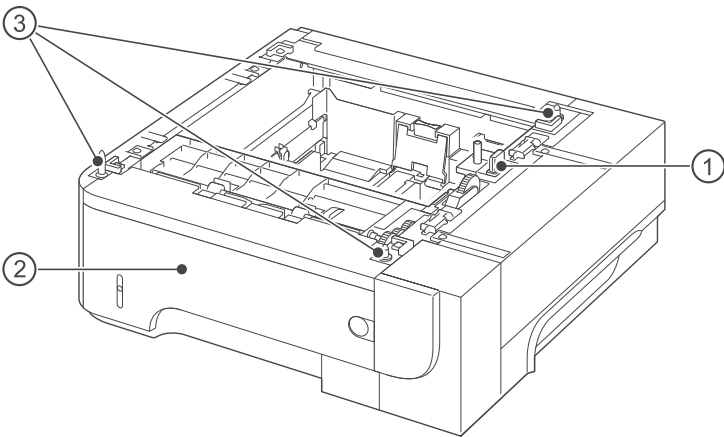


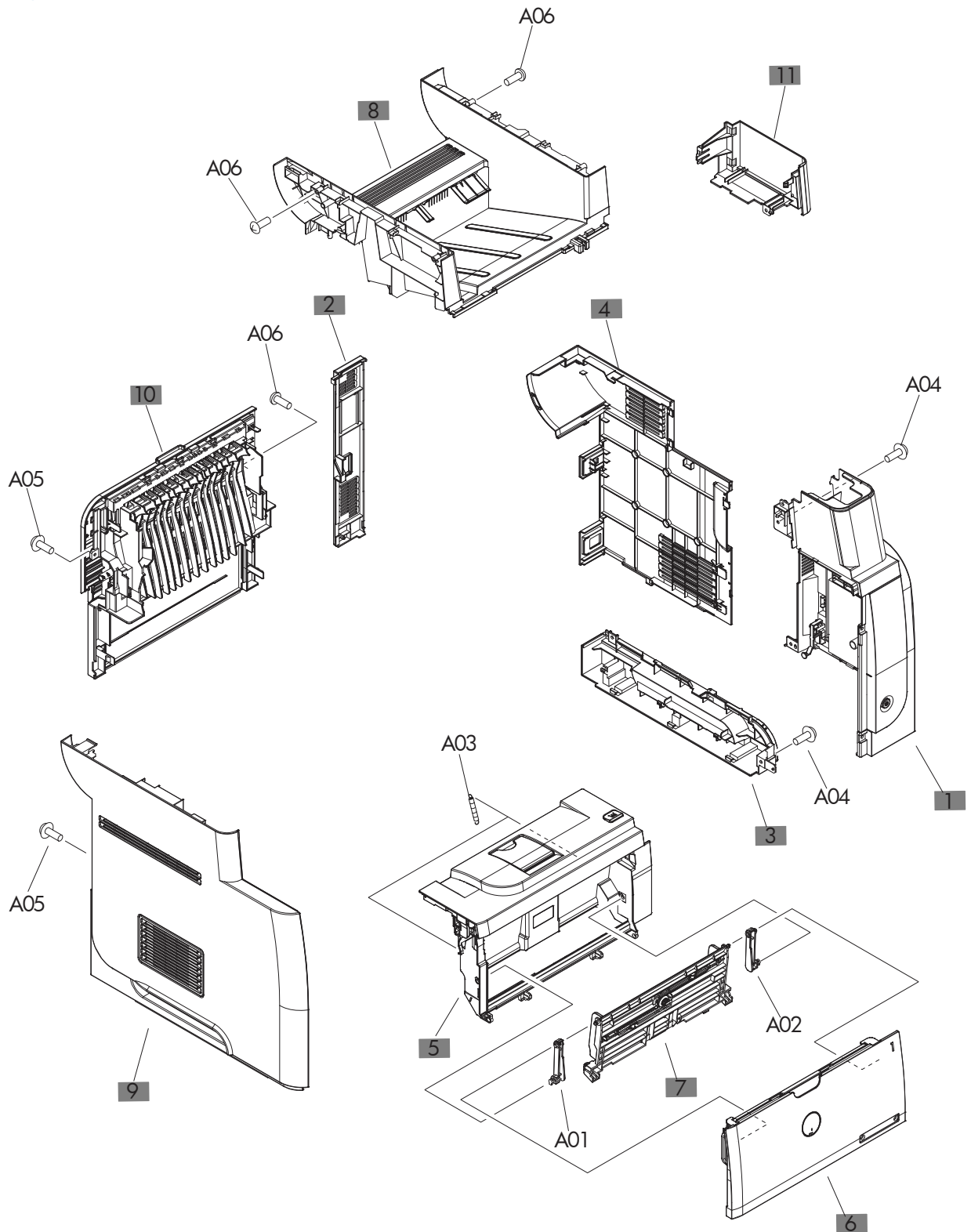
Table 2-5 Optional 500-sheet input tray

| Item | Description      |
|------|------------------|
| 1    | Connector        |
| 2    | Tray 2 or Tray 3 |
| 3    | Positioning pin  |



# Covers

Figure 2-3 Covers

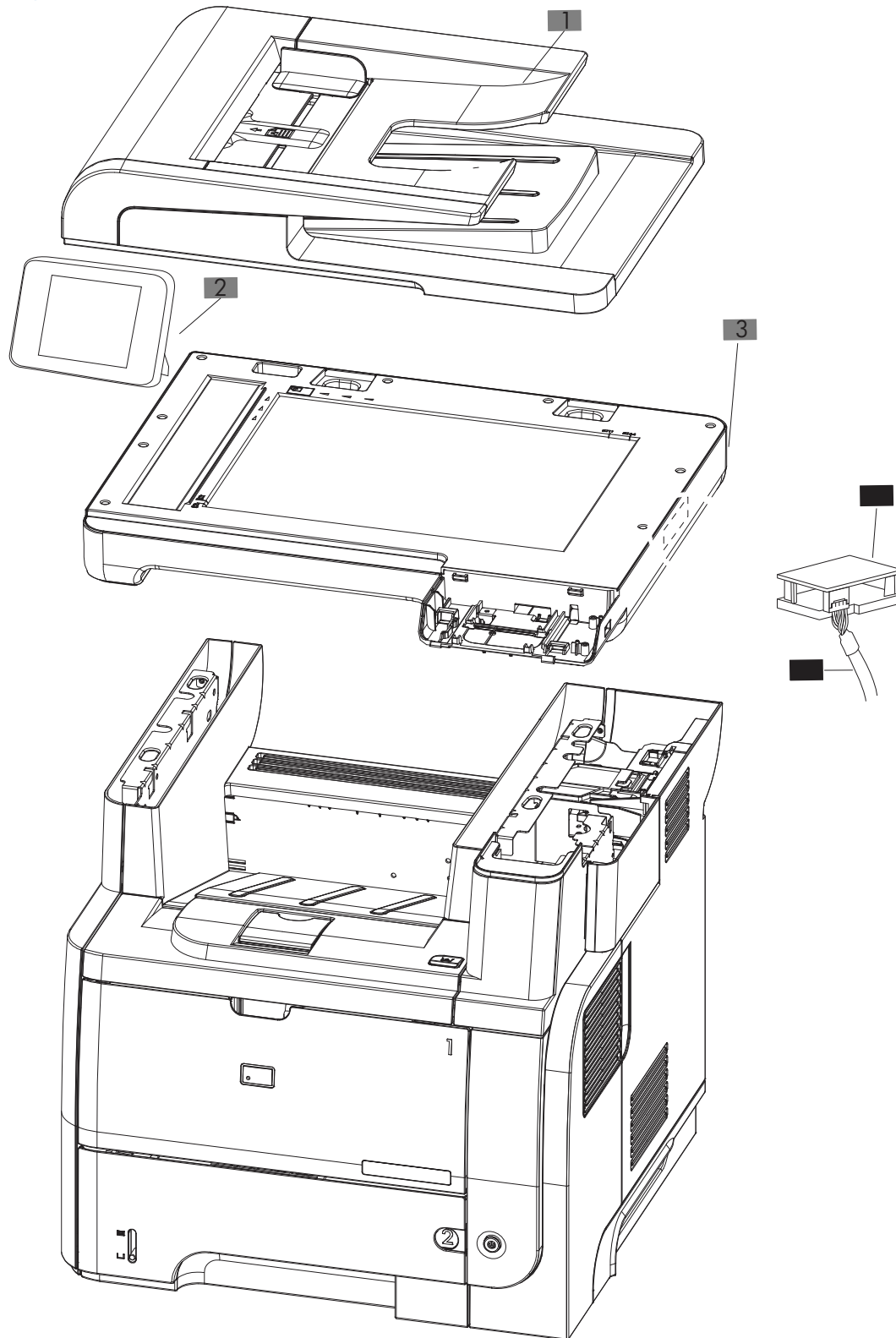


**Table 2-6 Covers**

| <b>Ref</b> | <b>Description</b>                  | <b>Part number</b> | <b>Qty</b> |
|------------|-------------------------------------|--------------------|------------|
| 1          | Cover, right assembly               | RM1-8498-000CN     | 1          |
| 2          | Cover, right rear                   | RC2-7673-000CN     | 1          |
| 3          | Cover, handle, right                | RC2-7675-000CN     | 1          |
| 4          | Cover, formatter                    | RC3-1863-010CN     | 1          |
| 5          | Door, cartridge assembly            | RM1-8502-000CN     | 1          |
| 6          | Cover kit, Tray 1                   | A8P80-65010        | 1          |
| 7          | Multipurpose lifting plate assembly | RM1-6325-000CN     | 1          |
| 8          | Cover, top assembly                 | RM1-8516-000CN     | 1          |
| 9          | Cover, left assembly                | RM1-8517-000CN     | 1          |
| 10         | Cover, rear assembly                | RM1-8518-000CN     | 1          |
| 11         | Cover, dummy                        | RC3-1920-000CN     | 1          |

# Document feeder and scanner assemblies

**Figure 2-4** Document feeder and scanner assemblies

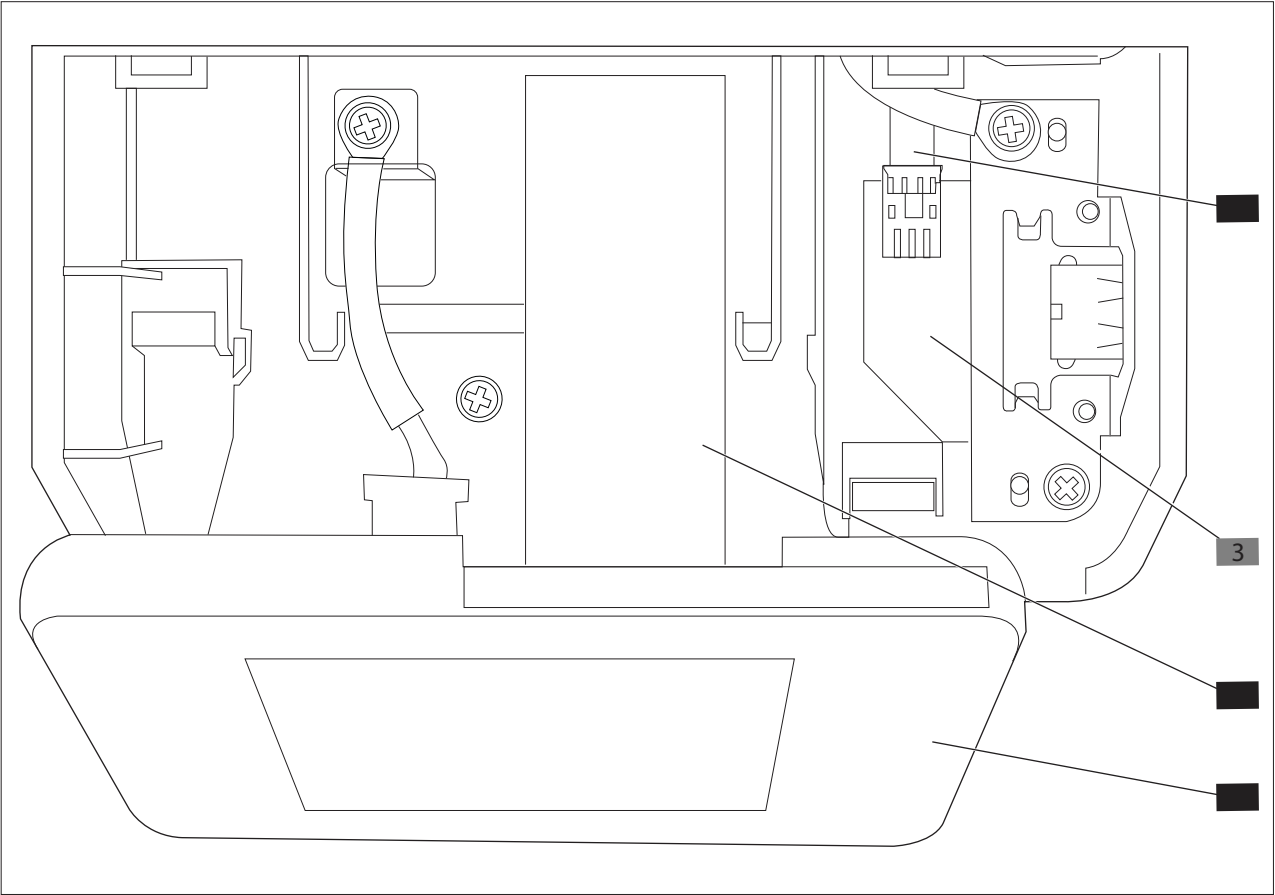


**Table 2-7 Document feeder and scanner assemblies**

| <b>Ref</b> | <b>Description</b>     | <b>Part number</b> | <b>Qty</b> |
|------------|------------------------|--------------------|------------|
| 1          | ADF assembly           | A8P79-60120        | 1          |
| 2          | Control-panel assembly | A8P79-60115        | 1          |
| 3          | Scanner assembly       | A8P79-60121        | 1          |
| 4          | Wi-Fi module           | 1150-7957          | 1          |
| 5          | Wi-Fi cable            | A8P80-60101        | 1          |

# Control-panel and USB PCA assemblies

Figure 2-5 Control-panel assembly

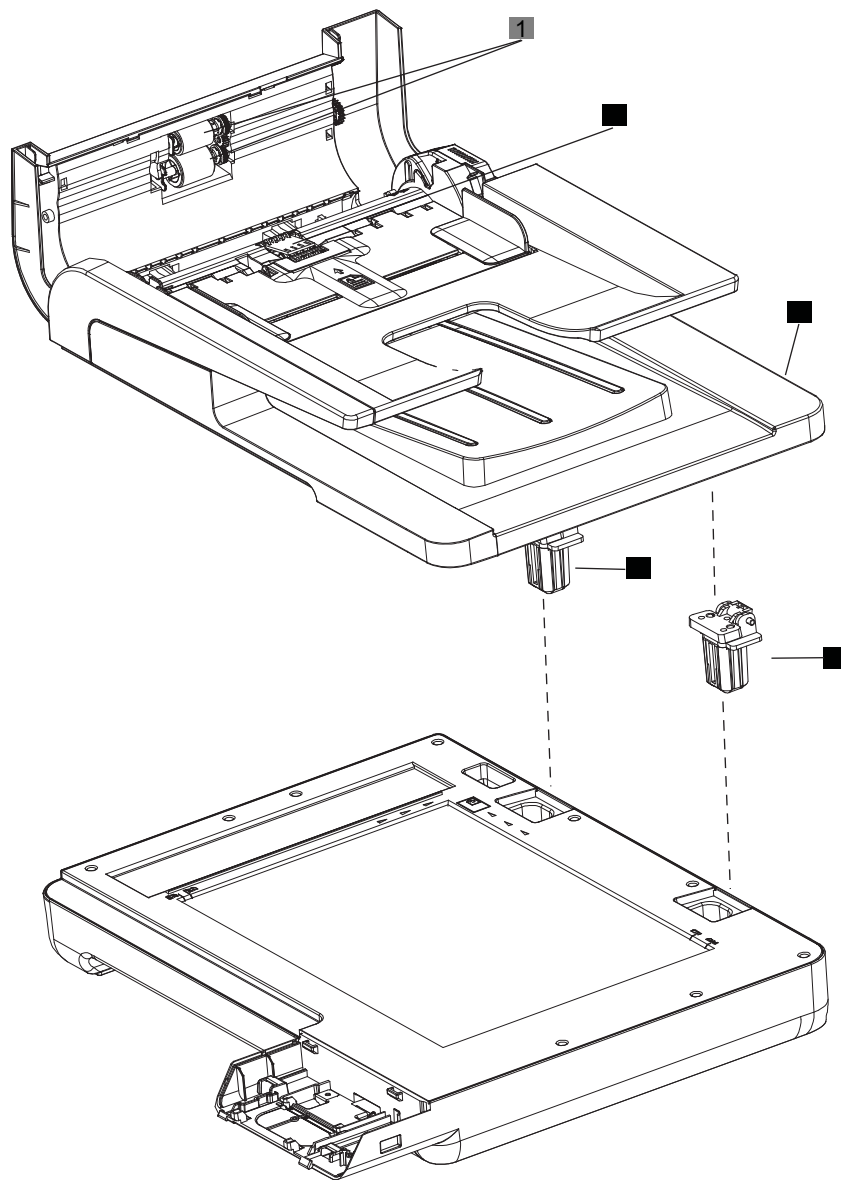


**Table 2-8 Control-panel assembly**

| <b>Ref</b> | <b>Description</b>     | <b>Part number</b> | <b>Qty</b> |
|------------|------------------------|--------------------|------------|
| 1          | Control-panel assembly | A8P79-60115        | 1          |
| 2          | Control-panel FFC      | A8P79-60106        | 1          |
| 3          | USB PCA                | CF368-60001        | 1          |
| 4          | USB cable              | A8P79-60102        | 1          |

# Document feeder assemblies

**Figure 2-6** Document feeder assemblies

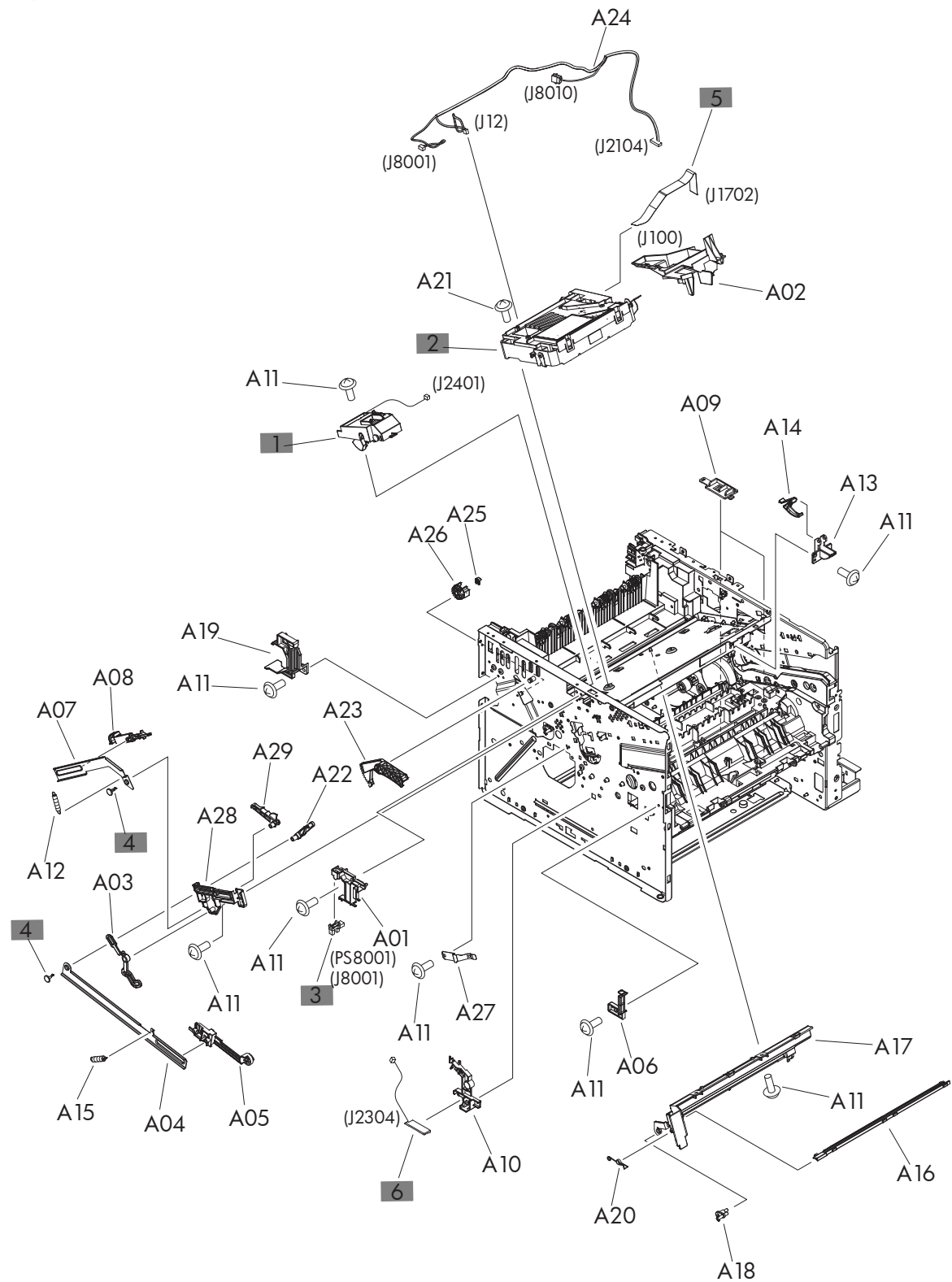


**Table 2-9 Document feeder assemblies**

| <b>Ref</b> | <b>Description</b>                 | <b>Part number</b> | <b>Qty</b> |
|------------|------------------------------------|--------------------|------------|
| 1          | ADF roller maintenance kit         | A8P79-65001        | 1          |
| 2          | ADF separation pad maintenance kit | A8P79-65010        | 1          |
| 3          | ADF assembly                       | A8P79-60120        | 1          |
| 4          | ADF hinge assembly, left           | CZ271-60020        | 1          |
| 5          | ADF hinge assembly, right          | A8P79-60011        | 1          |
| Not shown  | ADF whole unit kit                 | A8P79-65014        | 1          |

## Internal assemblies (1 of 6)

**Figure 2-7** Internal assemblies (1 of 6)

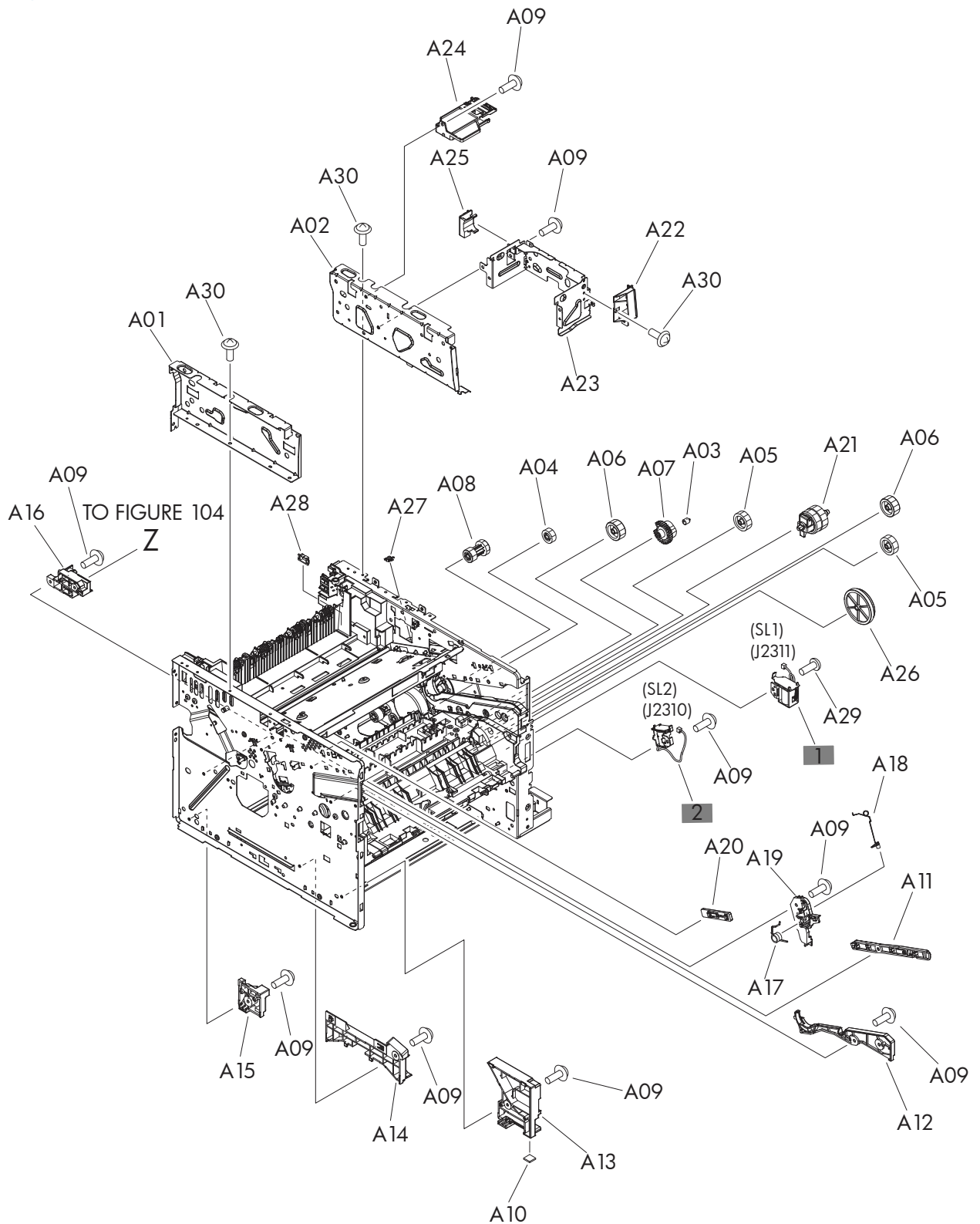


**Table 2-10 Internal assemblies (1 of 6)**

| <b>Ref</b> | <b>Description</b>        | <b>Part number</b> | <b>Qty</b> |
|------------|---------------------------|--------------------|------------|
| 1          | Tag holder assembly       | RM1-8521-000CN     | 1          |
| 2          | Laser/scanner             | RM1-6322-000CN     | 1          |
| 3          | Photo interrupter, IC     | WG8-5935-000CN     | 1          |
| 4          | Stopper, bushing arm      | RC2-7928-000CN     | 2          |
| 5          | Cable, flat               | RK2-4218-000CN     | 1          |
| 6          | Sensor, environmental PCA | RM1-8622-000CN     | 1          |

## Internal assemblies (2 of 6)

**Figure 2-8** Internal assemblies (2 of 6)

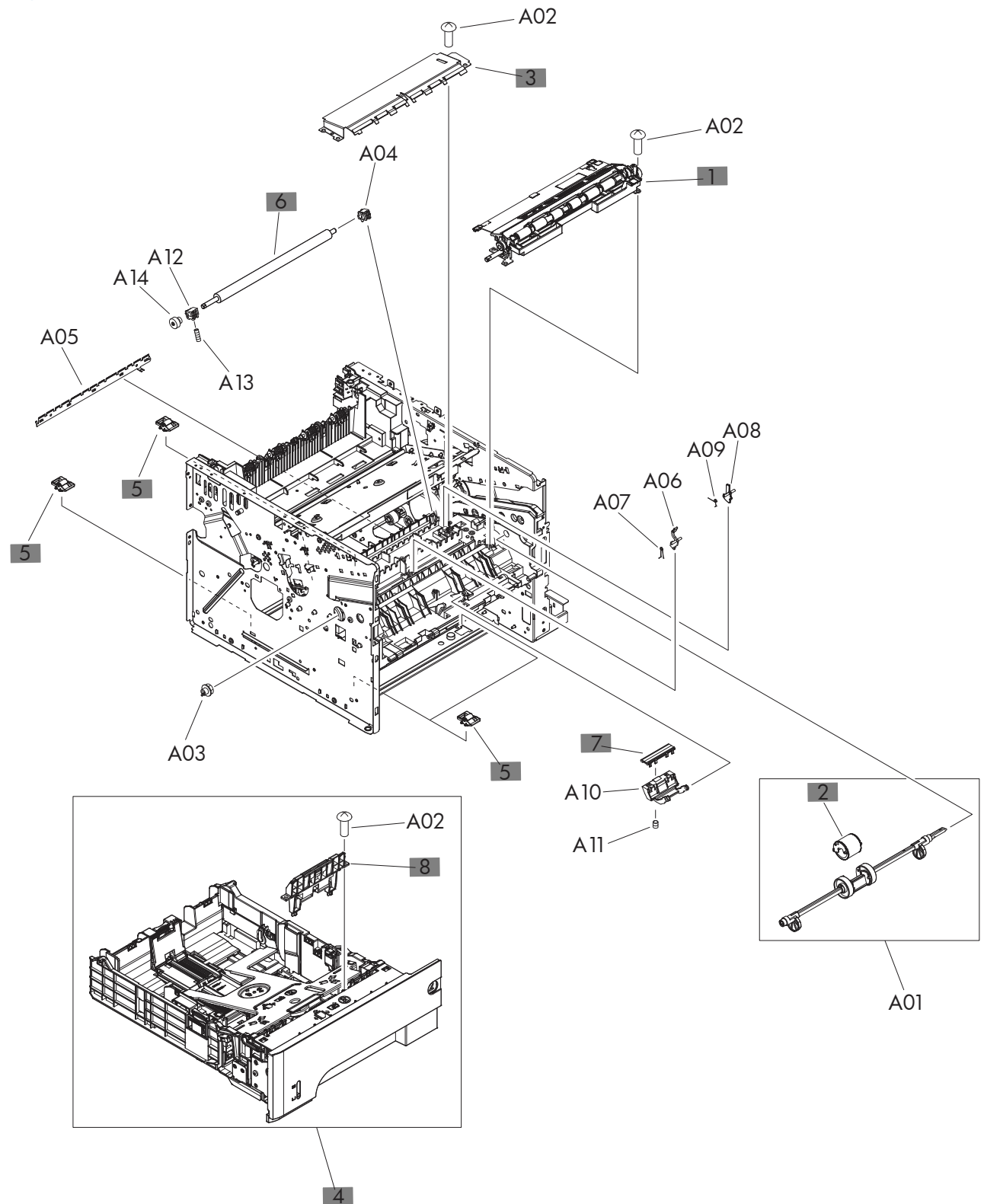


**Table 2-11 Internal assemblies (2 of 6)**

| <b>Ref</b> | <b>Description</b> | <b>Part number</b> | <b>Qty</b> |
|------------|--------------------|--------------------|------------|
| 1          | Tray 1 solenoid    | RK2-1490-000CN     | 1          |
| 2          | Tray 2 solenoid    | RK2-1492-000CN     | 1          |

## Internal assemblies (3 of 6)

**Figure 2-9** Internal assemblies (3 of 6)

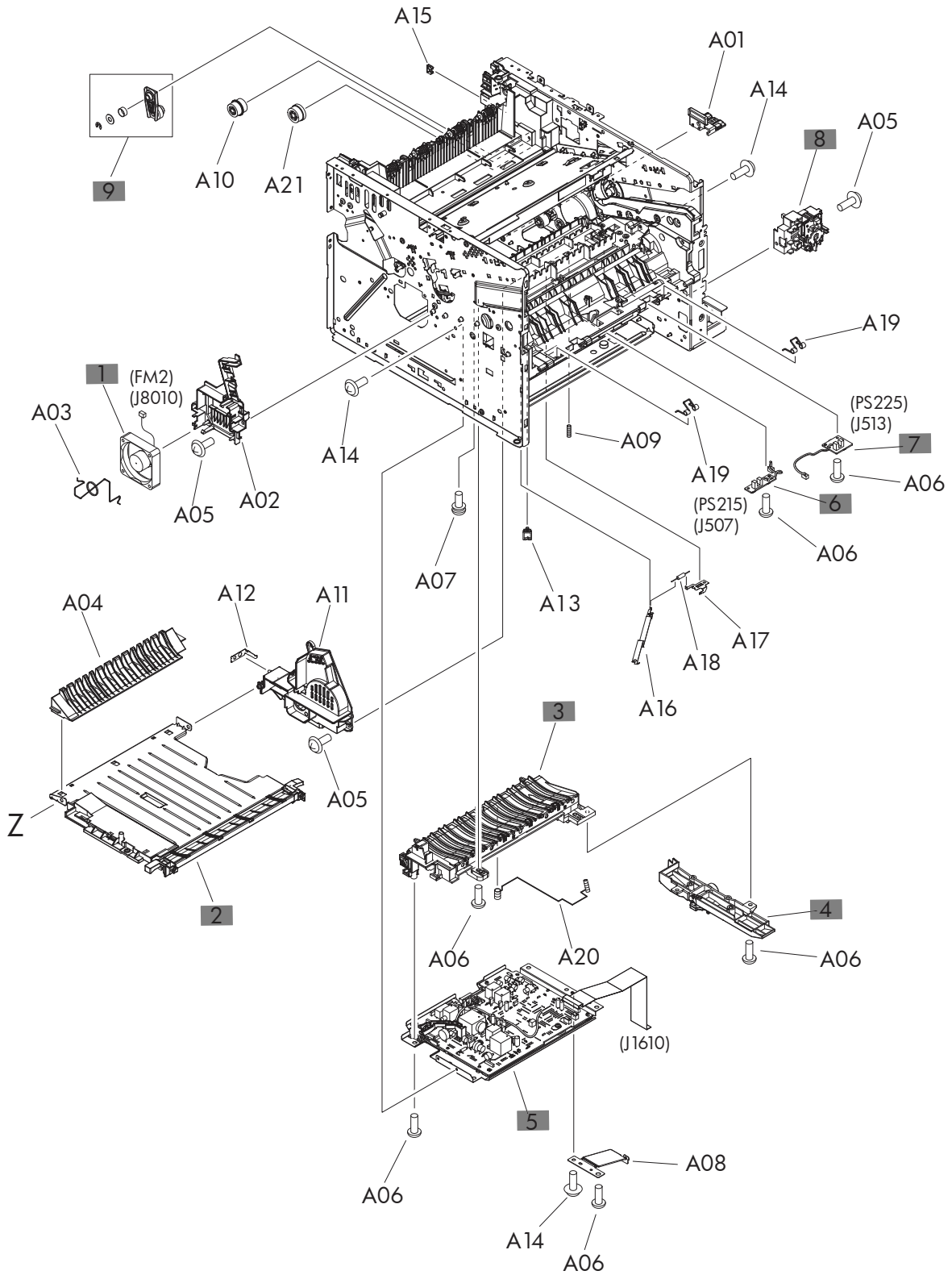


**Table 2-12 Internal assemblies (3 of 6)**

| <b>Ref</b> | <b>Description</b>            | <b>Part number</b> | <b>Qty</b> |
|------------|-------------------------------|--------------------|------------|
| 1          | Registration roller assembly  | RM1-8507-000CN     | 1          |
| 2          | Roller, multipurpose          | RL1-2412-000CN     | 1          |
| 3          | Transfer lower guide assembly | RM1-6315-000CN     | 1          |
| 4          | Cassette, Tray 2              | RM1-8512-000CN     | 1          |
| 5          | Base-plate roller assembly    | RM1-6306-000CN     | 4          |
| 6          | Roller, transfer              | RM1-6321-000CN     | 1          |
| 7          | Pad, multipurpose separation  | RC2-8575-000CN     | 1          |
| 8          | Separation holder assembly    | RM1-6303-000CN     | 1          |

## Internal assemblies (4 of 6)

**Figure 2-10** Internal assemblies (4 of 6)

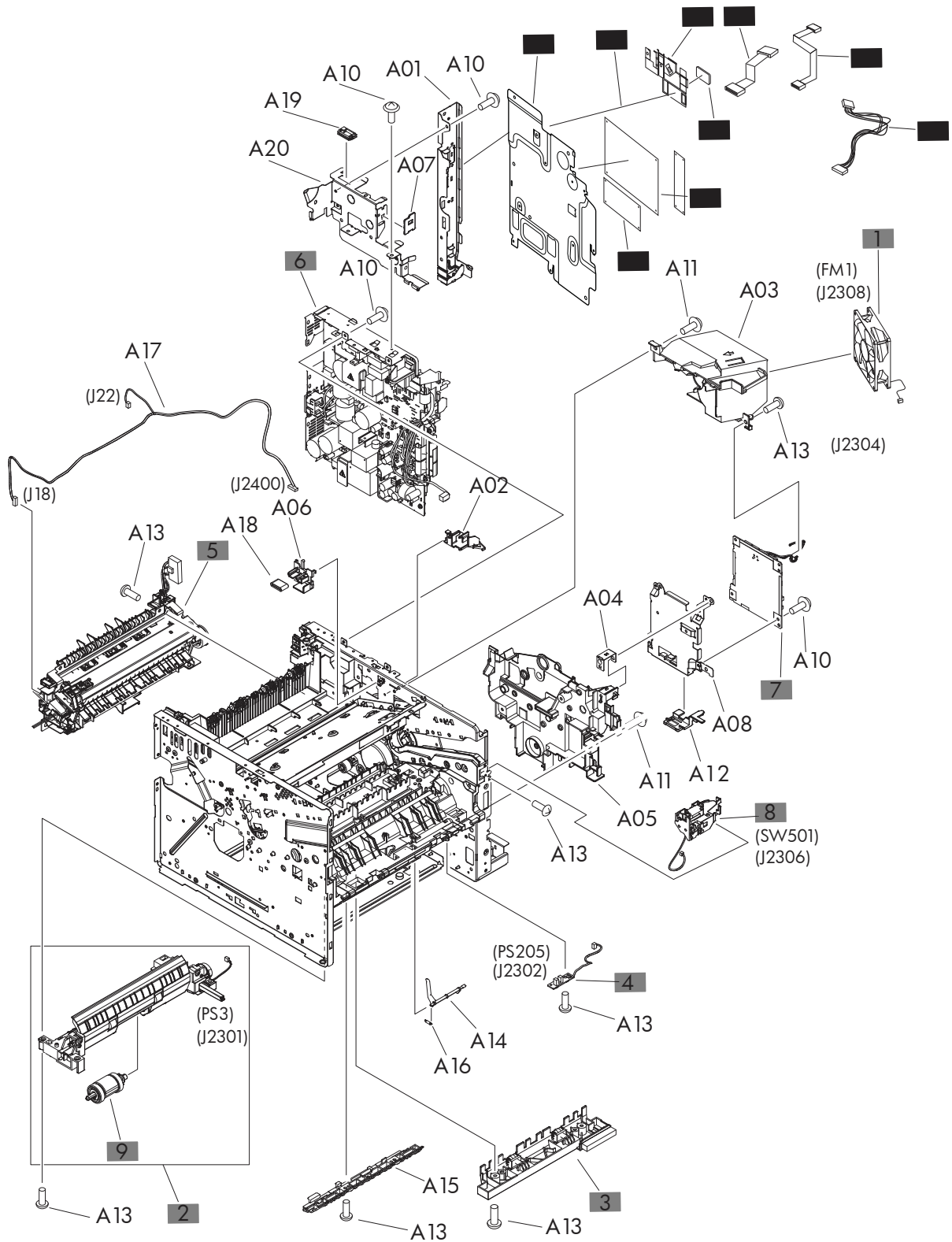


**Table 2-13 Internal assemblies (4 of 6)**

| <b>Ref</b> | <b>Description</b>                   | <b>Part number</b> | <b>Qty</b> |
|------------|--------------------------------------|--------------------|------------|
| 1          | Fan, sub                             | RK2-1499-000CN     | 1          |
| 2          | Lower paper feed guide               | RM1-6263-000CN     | 1          |
| 3          | Paper-feed guide assembly            | RM1-6270-000CN     | 1          |
| 4          | Position-guide assembly              | RM1-6273-000CN     | 1          |
| 5          | High-voltage power supply (HVPS) PCA | RM1-8519-000CN     | 1          |
| 6          | Top sensor PCA                       | RM1-8617-000CN     | 1          |
| 7          | Paper-width sensor PCA               | RM1-8618-000CN     | 1          |
| 8          | Switch assembly                      | RM1-8515-000CN     | 1          |
| 9          | Pendulum service kit                 | RM1-6598-000CN     | 1          |

## Internal assemblies (5 of 6)

**Figure 2-11** Internal assemblies (5 of 6)

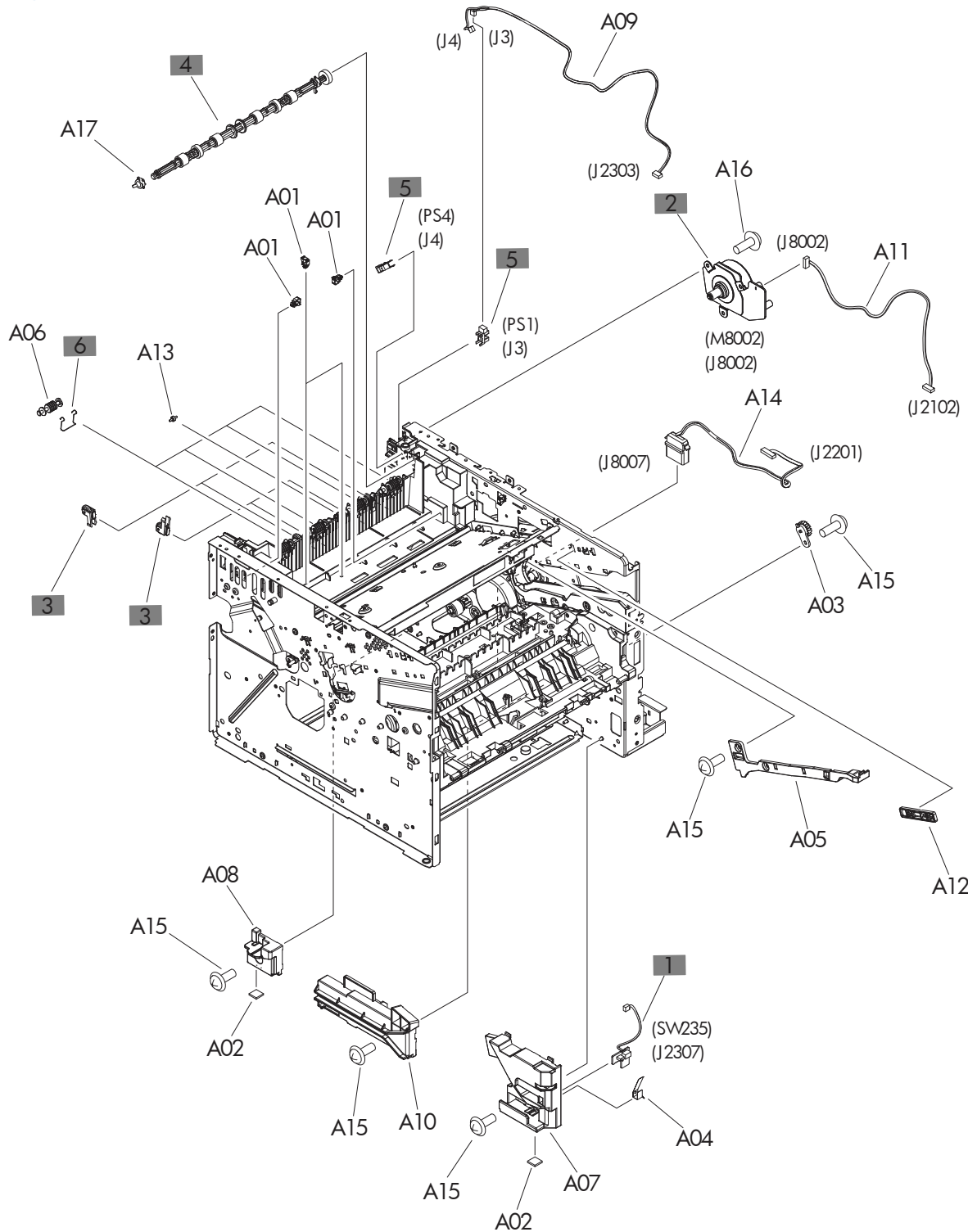


**Table 2-14 Internal assemblies (5 of 6)**

| <b>Ref</b> | <b>Description</b>                                           | <b>Part number</b> | <b>Qty</b> |
|------------|--------------------------------------------------------------|--------------------|------------|
| 1          | Fan, main                                                    | RK2-2416-000CN     | 1          |
| 2          | Tray 2, paper pickup assembly                                | RM1-8505-000CN     | 1          |
| 3          | Idler roller assembly                                        | RM1-8506-000CN     | 1          |
| 4          | Multipurpose sensor PCA                                      | RM1-8621-000CN     | 1          |
| 5          | Fuser assembly                                               | RM1-8508-000CN     | 1          |
| 6          | Low-voltage power supply (LVPS) assembly                     | RM1-8514-000CN     | 1          |
| 7          | DC controller PCA                                            | RM1-8615-000CN     | 1          |
| 8          | Interlock-switch assembly                                    | RM1-8499-000CN     | 1          |
| 9          | Assembly, cassette pick up roller (Tray 2 & 3 pickup roller) | RM1-6323-000CN     | 1          |
| 10         | Formatter, standard                                          | A8P80-60001        | 1          |
| 10         | Formatter, China only                                        | A8P79-60003        | 1          |
| 11         | 2 ports stay-FMTR                                            | A8P79-00015        | 1          |
| 12         | ICB                                                          | A8P79-60002        | 1          |
| A01        | I/O Plate, 2 ports                                           | A8P79-00016        | 1          |
| 13         | Fax PCA, U.S.                                                | CF206-60001        | 1          |
| 13         | Fax PCA, Europe                                              | CF207-60001        | 1          |
| 13         | Fax PCA, Brazil                                              | CF208-60001        | 1          |
| 14         | Fax, cable                                                   | A8P79-60105        | 1          |
| 15         | Video FFC, ICB to formatter                                  | A8P79-60128        | 1          |
| 16         | Power cable, ICB to formatter                                | A8P79-60101        | 1          |
| 17         | Guide, FFC                                                   | A8P79-40013        | 1          |
| 18         | Ferrite core                                                 | 9170-2640          | 1          |

## Internal assemblies (6 of 6)

Figure 2-12 Internal assemblies (6 of 6)



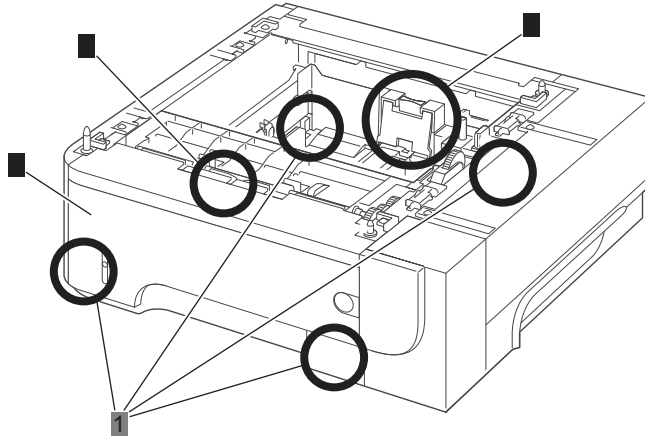
**Table 2-15 Internal assemblies (6 of 6)**

| <b>Ref</b> | <b>Description</b>             | <b>Part number</b> | <b>Qty</b> |
|------------|--------------------------------|--------------------|------------|
| 1          | Tray sensor PCA                | RM1-8620-000CN     | 1          |
| 2          | Fuser motor assembly           | RM1-8523-000CN     | 1          |
| 3          | Paper-delivery roller assembly | RM1-6301-000CN     | 4          |
| 4          | Face-down roller assembly      | RM1-6311-000CN     | 1          |
| 5          | Photo interrupter, IC          | WG8-5935-000CN     | 2          |
| 6          | Spring, torsion                | RC2-8554-000CN     | 1          |

# Input devices

## 500-sheet input tray (Tray 3)

**Figure 2-13** 500-sheet input tray (Tray 3)



**Table 2-16 500-sheet input tray (Tray 3)**

| <b>Ref</b> | <b>Description</b>                      | <b>Part number</b> | <b>Qty</b> |
|------------|-----------------------------------------|--------------------|------------|
| 1          | Optional 500-sheet tray and feeder unit | CE530-69001        | 1          |
| 2          | Base-plate roller assembly              | RM1-6306-000CN     | 4          |
| 3          | Separation holder assembly              | RM1-6303-000CN     | 1          |
| 4          | Cassette, Tray 3                        | RM1-6279-000CN     | 1          |

# Alphabetical parts list

**Table 2-17 Alphabetical parts list**

| Description                                                  | Part number    | Table and page                                                     |
|--------------------------------------------------------------|----------------|--------------------------------------------------------------------|
| 2 ports stay-FMTR                                            | A8P79-00015    | <a href="#">Internal assemblies (5 of 6) on page 163</a>           |
| ADF assembly                                                 | A8P79-60120    | <a href="#">Document feeder and scanner assemblies on page 149</a> |
| ADF assembly                                                 | A8P79-60120    | <a href="#">Document feeder assemblies on page 153</a>             |
| ADF hinge assembly, left                                     | CZ271-60020    | <a href="#">Document feeder assemblies on page 153</a>             |
| ADF hinge assembly, right                                    | A8P79-60011    | <a href="#">Document feeder assemblies on page 153</a>             |
| ADF roller maintenance kit                                   | A8P79-65001    | <a href="#">Document feeder assemblies on page 153</a>             |
| ADF separation pad maintenance kit                           | A8P79-65010    | <a href="#">Document feeder assemblies on page 153</a>             |
| ADF whole unit kit                                           | A8P79-65014    | <a href="#">Document feeder assemblies on page 153</a>             |
| Assembly, cassette pick up roller (Tray 2 & 3 pickup roller) | RM1-6323-000CN | <a href="#">Internal assemblies (5 of 6) on page 163</a>           |
| Base-plate roller assembly                                   | RM1-6306-000CN | <a href="#">Internal assemblies (3 of 6) on page 159</a>           |
| Base-plate roller assembly                                   | RM1-6306-000CN | <a href="#">500-sheet input tray (Tray 3) on page 167</a>          |
| Cable, flat                                                  | RK2-4218-000CN | <a href="#">Internal assemblies (1 of 6) on page 155</a>           |
| Cassette, Tray 2                                             | RM1-8512-000CN | <a href="#">Internal assemblies (3 of 6) on page 159</a>           |
| Cassette, Tray 3                                             | RM1-6279-000CN | <a href="#">500-sheet input tray (Tray 3) on page 167</a>          |
| Control-panel assembly                                       | A8P79-60115    | <a href="#">Document feeder and scanner assemblies on page 149</a> |
| Control-panel assembly                                       | A8P79-60115    | <a href="#">Control-panel assembly on page 151</a>                 |
| Control-panel FFC                                            | A8P79-60106    | <a href="#">Control-panel assembly on page 151</a>                 |
| Cover kit, Tray 1                                            | A8P80-65010    | <a href="#">Covers on page 147</a>                                 |
| Cover, dummy                                                 | RC3-1920-000CN | <a href="#">Covers on page 147</a>                                 |
| Cover, formatter                                             | RC3-1863-010CN | <a href="#">Covers on page 147</a>                                 |

**Table 2-17 Alphabetical parts list (continued)**

| <b>Description</b>                   | <b>Part number</b> | <b>Table and page</b>                                    |
|--------------------------------------|--------------------|----------------------------------------------------------|
| Cover, handle, right                 | RC2-7675-000CN     | <a href="#">Covers on page 147</a>                       |
| Cover, left assembly                 | RM1-8517-000CN     | <a href="#">Covers on page 147</a>                       |
| Cover, rear assembly                 | RM1-8518-000CN     | <a href="#">Covers on page 147</a>                       |
| Cover, right assembly                | RM1-8498-000CN     | <a href="#">Covers on page 147</a>                       |
| Cover, right rear                    | RC2-7673-000CN     | <a href="#">Covers on page 147</a>                       |
| Cover, top assembly                  | RM1-8516-000CN     | <a href="#">Covers on page 147</a>                       |
| DC controller PCA                    | RM1-8615-000CN     | <a href="#">Internal assemblies (5 of 6) on page 163</a> |
| Door, cartridge assembly             | RM1-8502-000CN     | <a href="#">Covers on page 147</a>                       |
| Face-down roller assembly            | RM1-6311-000CN     | <a href="#">Internal assemblies (6 of 6) on page 165</a> |
| Fan, main                            | RK2-2416-000CN     | <a href="#">Internal assemblies (5 of 6) on page 163</a> |
| Fan, sub                             | RK2-1499-000CN     | <a href="#">Internal assemblies (4 of 6) on page 161</a> |
| Fax PCA, Brazil                      | CF208-60001        | <a href="#">Internal assemblies (5 of 6) on page 163</a> |
| Fax PCA, Europe                      | CF207-60001        | <a href="#">Internal assemblies (5 of 6) on page 163</a> |
| Fax PCA, U.S.                        | CF206-60001        | <a href="#">Internal assemblies (5 of 6) on page 163</a> |
| Fax, cable                           | A8P79-60105        | <a href="#">Internal assemblies (5 of 6) on page 163</a> |
| Ferrite core                         | 9170-2640          | <a href="#">Internal assemblies (5 of 6) on page 163</a> |
| Formatter, China only                | A8P79-60003        | <a href="#">Internal assemblies (5 of 6) on page 163</a> |
| Formatter, standard                  | A8P80-60001        | <a href="#">Internal assemblies (5 of 6) on page 163</a> |
| Fuser assembly                       | RM1-8508-000CN     | <a href="#">Internal assemblies (5 of 6) on page 163</a> |
| Fuser motor assembly                 | RM1-8523-000CN     | <a href="#">Internal assemblies (6 of 6) on page 165</a> |
| Guide, FFC                           | A8P79-40013        | <a href="#">Internal assemblies (5 of 6) on page 163</a> |
| High-voltage power supply (HVPS) PCA | RM1-8519-000CN     | <a href="#">Internal assemblies (4 of 6) on page 161</a> |
| I/O Plate, 2 ports                   | A8P79-00016        | <a href="#">Internal assemblies (5 of 6) on page 163</a> |

**Table 2-17 Alphabetical parts list (continued)**

| <b>Description</b>                       | <b>Part number</b> | <b>Table and page</b>                                     |
|------------------------------------------|--------------------|-----------------------------------------------------------|
| ICB                                      | A8P79-60002        | <a href="#">Internal assemblies (5 of 6) on page 163</a>  |
| Idler roller assembly                    | RM1-8506-000CN     | <a href="#">Internal assemblies (5 of 6) on page 163</a>  |
| Interlock-switch assembly                | RM1-8499-000CN     | <a href="#">Internal assemblies (5 of 6) on page 163</a>  |
| Laser/scanner                            | RM1-6322-000CN     | <a href="#">Internal assemblies (1 of 6) on page 155</a>  |
| Low-voltage power supply (LVPS) assembly | RM1-8514-000CN     | <a href="#">Internal assemblies (5 of 6) on page 163</a>  |
| Lower paper feed guide                   | RM1-6263-000CN     | <a href="#">Internal assemblies (4 of 6) on page 161</a>  |
| Multipurpose lifting plate assembly      | RM1-6325-000CN     | <a href="#">Covers on page 147</a>                        |
| Multipurpose sensor PCA                  | RM1-8621-000CN     | <a href="#">Internal assemblies (5 of 6) on page 163</a>  |
| Optional 500-sheet tray and feeder unit  | CE530-69001        | <a href="#">500-sheet input tray (Tray 3) on page 167</a> |
| Pad, multipurpose separation             | RC2-8575-000CN     | <a href="#">Internal assemblies (3 of 6) on page 159</a>  |
| Paper-delivery roller assembly           | RM1-6301-000CN     | <a href="#">Internal assemblies (6 of 6) on page 165</a>  |
| Paper-feed guide assembly                | RM1-6270-000CN     | <a href="#">Internal assemblies (4 of 6) on page 161</a>  |
| Paper-width sensor PCA                   | RM1-8618-000CN     | <a href="#">Internal assemblies (4 of 6) on page 161</a>  |
| Pendulum service kit                     | RM1-6598-000CN     | <a href="#">Internal assemblies (4 of 6) on page 161</a>  |
| Photo interrupter, IC                    | WG8-5935-000CN     | <a href="#">Internal assemblies (1 of 6) on page 155</a>  |
| Photo interrupter, IC                    | WG8-5935-000CN     | <a href="#">Internal assemblies (6 of 6) on page 165</a>  |
| Position-guide assembly                  | RM1-6273-000CN     | <a href="#">Internal assemblies (4 of 6) on page 161</a>  |
| Power cable, ICB to formatter            | A8P79-60101        | <a href="#">Internal assemblies (5 of 6) on page 163</a>  |
| Registration roller assembly             | RM1-8507-000CN     | <a href="#">Internal assemblies (3 of 6) on page 159</a>  |
| Roller, multipurpose                     | RL1-2412-000CN     | <a href="#">Internal assemblies (3 of 6) on page 159</a>  |

**Table 2-17 Alphabetical parts list (continued)**

| <b>Description</b>            | <b>Part number</b> | <b>Table and page</b>                                              |
|-------------------------------|--------------------|--------------------------------------------------------------------|
| Roller, transfer              | RM1-6321-000CN     | <a href="#">Internal assemblies (3 of 6) on page 159</a>           |
| Scanner assembly              | A8P79-60121        | <a href="#">Document feeder and scanner assemblies on page 149</a> |
| Sensor, environmental PCA     | RM1-8622-000CN     | <a href="#">Internal assemblies (1 of 6) on page 155</a>           |
| Separation holder assembly    | RM1-6303-000CN     | <a href="#">Internal assemblies (3 of 6) on page 159</a>           |
| Separation holder assembly    | RM1-6303-000CN     | <a href="#">500-sheet input tray (Tray 3) on page 167</a>          |
| Spring, torsion               | RC2-8554-000CN     | <a href="#">Internal assemblies (6 of 6) on page 165</a>           |
| Stopper, bushing arm          | RC2-7928-000CN     | <a href="#">Internal assemblies (1 of 6) on page 155</a>           |
| Switch assembly               | RM1-8515-000CN     | <a href="#">Internal assemblies (4 of 6) on page 161</a>           |
| Tag holder assembly           | RM1-8521-000CN     | <a href="#">Internal assemblies (1 of 6) on page 155</a>           |
| Top sensor PCA                | RM1-8617-000CN     | <a href="#">Internal assemblies (4 of 6) on page 161</a>           |
| Transfer lower guide assembly | RM1-6315-000CN     | <a href="#">Internal assemblies (3 of 6) on page 159</a>           |
| Tray 2, paper pickup assembly | RM1-8505-000CN     | <a href="#">Internal assemblies (5 of 6) on page 163</a>           |
| Tray sensor PCA               | RM1-8620-000CN     | <a href="#">Internal assemblies (6 of 6) on page 165</a>           |
| Tray 1 solenoid               | RK2-1490-000CN     | <a href="#">Internal assemblies (2 of 6) on page 157</a>           |
| Tray 2 solenoid               | RK2-1492-000CN     | <a href="#">Internal assemblies (2 of 6) on page 157</a>           |
| USB cable                     | A8P79-60102        | <a href="#">Control-panel assembly on page 151</a>                 |
| USB PCA                       | CF368-60001        | <a href="#">Control-panel assembly on page 151</a>                 |
| Video FFC, ICB to formatter   | A8P79-60128        | <a href="#">Internal assemblies (5 of 6) on page 163</a>           |
| Wi-Fi cable                   | A8P80-60101        | <a href="#">Document feeder and scanner assemblies on page 149</a> |
| Wi-Fi module                  | 1150-7957          | <a href="#">Document feeder and scanner assemblies on page 149</a> |

# Numerical parts list

**Table 2-18 Numerical parts list**

| Part number | Description                   | Table and page                                                     |
|-------------|-------------------------------|--------------------------------------------------------------------|
| 1150-7957   | Wi-Fi module                  | <a href="#">Document feeder and scanner assemblies on page 149</a> |
| 9170-2640   | Ferrite core                  | <a href="#">Internal assemblies (5 of 6) on page 163</a>           |
| A8P79-00015 | 2 ports stay-FMTR             | <a href="#">Internal assemblies (5 of 6) on page 163</a>           |
| A8P79-00016 | I/O Plate, 2 ports            | <a href="#">Internal assemblies (5 of 6) on page 163</a>           |
| A8P79-40013 | Guide, FFC                    | <a href="#">Internal assemblies (5 of 6) on page 163</a>           |
| A8P79-60002 | ICB                           | <a href="#">Internal assemblies (5 of 6) on page 163</a>           |
| A8P79-60003 | Formatter, China only         | <a href="#">Internal assemblies (5 of 6) on page 163</a>           |
| A8P79-60011 | ADF hinge assembly, right     | <a href="#">Document feeder assemblies on page 153</a>             |
| A8P79-60101 | Power cable, ICB to formatter | <a href="#">Internal assemblies (5 of 6) on page 163</a>           |
| A8P79-60102 | USB cable                     | <a href="#">Control-panel assembly on page 151</a>                 |
| A8P79-60105 | Fax, cable                    | <a href="#">Internal assemblies (5 of 6) on page 163</a>           |
| A8P79-60106 | Control-panel FFC             | <a href="#">Control-panel assembly on page 151</a>                 |
| A8P79-60115 | Control-panel assembly        | <a href="#">Document feeder and scanner assemblies on page 149</a> |
| A8P79-60115 | Control-panel assembly        | <a href="#">Control-panel assembly on page 151</a>                 |
| A8P79-60120 | ADF assembly                  | <a href="#">Document feeder and scanner assemblies on page 149</a> |
| A8P79-60120 | ADF assembly                  | <a href="#">Document feeder assemblies on page 153</a>             |
| A8P79-60121 | Scanner assembly              | <a href="#">Document feeder and scanner assemblies on page 149</a> |
| A8P79-60128 | Video FFC, ICB to formatter   | <a href="#">Internal assemblies (5 of 6) on page 163</a>           |
| A8P79-65001 | ADF roller maintenance kit    | <a href="#">Document feeder assemblies on page 153</a>             |

**Table 2-18 Numerical parts list (continued)**

| <b>Part number</b> | <b>Description</b>                      | <b>Table and page</b>                                              |
|--------------------|-----------------------------------------|--------------------------------------------------------------------|
| A8P79-65010        | ADF separation pad maintenance kit      | <a href="#">Document feeder assemblies on page 153</a>             |
| A8P79-65014        | ADF whole unit kit                      | <a href="#">Document feeder assemblies on page 153</a>             |
| A8P80-60001        | Formatter, standard                     | <a href="#">Internal assemblies (5 of 6) on page 163</a>           |
| A8P80-60101        | Wi-Fi cable                             | <a href="#">Document feeder and scanner assemblies on page 149</a> |
| A8P80-65010        | Cover kit, Tray 1                       | <a href="#">Covers on page 147</a>                                 |
| CE530-69001        | Optional 500-sheet tray and feeder unit | <a href="#">500-sheet input tray (Tray 3) on page 167</a>          |
| CF206-60001        | Fax PCA, U.S.                           | <a href="#">Internal assemblies (5 of 6) on page 163</a>           |
| CF207-60001        | Fax PCA, Europe                         | <a href="#">Internal assemblies (5 of 6) on page 163</a>           |
| CF208-60001        | Fax PCA, Brazil                         | <a href="#">Internal assemblies (5 of 6) on page 163</a>           |
| CF368-60001        | USB PCA                                 | <a href="#">Control-panel assembly on page 151</a>                 |
| CZ271-60020        | ADF hinge assembly, left                | <a href="#">Document feeder assemblies on page 153</a>             |
| RC2-7673-000CN     | Cover, right rear                       | <a href="#">Covers on page 147</a>                                 |
| RC2-7675-000CN     | Cover, handle, right                    | <a href="#">Covers on page 147</a>                                 |
| RC2-7928-000CN     | Stopper, bushing arm                    | <a href="#">Internal assemblies (1 of 6) on page 155</a>           |
| RC2-8554-000CN     | Spring, torsion                         | <a href="#">Internal assemblies (6 of 6) on page 165</a>           |
| RC2-8575-000CN     | Pad, multipurpose separation            | <a href="#">Internal assemblies (3 of 6) on page 159</a>           |
| RC3-1863-010CN     | Cover, formatter                        | <a href="#">Covers on page 147</a>                                 |
| RC3-1920-000CN     | Cover, dummy                            | <a href="#">Covers on page 147</a>                                 |
| RK2-1490-000CN     | Tray 1 solenoid                         | <a href="#">Internal assemblies (2 of 6) on page 157</a>           |
| RK2-1492-000CN     | Tray 2 solenoid                         | <a href="#">Internal assemblies (2 of 6) on page 157</a>           |
| RK2-1499-000CN     | Fan, sub                                | <a href="#">Internal assemblies (4 of 6) on page 161</a>           |
| RK2-2416-000CN     | Fan, main                               | <a href="#">Internal assemblies (5 of 6) on page 163</a>           |

**Table 2-18 Numerical parts list (continued)**

| <b>Part number</b> | <b>Description</b>                                           | <b>Table and page</b>                                     |
|--------------------|--------------------------------------------------------------|-----------------------------------------------------------|
| RK2-4218-000CN     | Cable, flat                                                  | <a href="#">Internal assemblies (1 of 6) on page 155</a>  |
| RL1-2412-000CN     | Roller, multipurpose                                         | <a href="#">Internal assemblies (3 of 6) on page 159</a>  |
| RM1-6263-000CN     | Lower paper feed guide                                       | <a href="#">Internal assemblies (4 of 6) on page 161</a>  |
| RM1-6270-000CN     | Paper-feed guide assembly                                    | <a href="#">Internal assemblies (4 of 6) on page 161</a>  |
| RM1-6273-000CN     | Position-guide assembly                                      | <a href="#">Internal assemblies (4 of 6) on page 161</a>  |
| RM1-6279-000CN     | Cassette, Tray 3                                             | <a href="#">500-sheet input tray (Tray 3) on page 167</a> |
| RM1-6301-000CN     | Paper-delivery roller assembly                               | <a href="#">Internal assemblies (6 of 6) on page 165</a>  |
| RM1-6303-000CN     | Separation holder assembly                                   | <a href="#">Internal assemblies (3 of 6) on page 159</a>  |
| RM1-6303-000CN     | Separation holder assembly                                   | <a href="#">500-sheet input tray (Tray 3) on page 167</a> |
| RM1-6306-000CN     | Base-plate roller assembly                                   | <a href="#">Internal assemblies (3 of 6) on page 159</a>  |
| RM1-6306-000CN     | Base-plate roller assembly                                   | <a href="#">500-sheet input tray (Tray 3) on page 167</a> |
| RM1-6311-000CN     | Face-down roller assembly                                    | <a href="#">Internal assemblies (6 of 6) on page 165</a>  |
| RM1-6315-000CN     | Transfer lower guide assembly                                | <a href="#">Internal assemblies (3 of 6) on page 159</a>  |
| RM1-6321-000CN     | Roller, transfer                                             | <a href="#">Internal assemblies (3 of 6) on page 159</a>  |
| RM1-6322-000CN     | Laser/scanner                                                | <a href="#">Internal assemblies (1 of 6) on page 155</a>  |
| RM1-6323-000CN     | Assembly, cassette pick up roller (Tray 2 & 3 pickup roller) | <a href="#">Internal assemblies (5 of 6) on page 163</a>  |
| RM1-6325-000CN     | Multipurpose lifting plate assembly                          | <a href="#">Covers on page 147</a>                        |
| RM1-6598-000CN     | Pendulum service kit                                         | <a href="#">Internal assemblies (4 of 6) on page 161</a>  |
| RM1-8498-000CN     | Cover, right assembly                                        | <a href="#">Covers on page 147</a>                        |
| RM1-8499-000CN     | Interlock-switch assembly                                    | <a href="#">Internal assemblies (5 of 6) on page 163</a>  |
| RM1-8502-000CN     | Door, cartridge assembly                                     | <a href="#">Covers on page 147</a>                        |

**Table 2-18 Numerical parts list (continued)**

| Part number    | Description                              | Table and page                                           |
|----------------|------------------------------------------|----------------------------------------------------------|
| RM1-8505-000CN | Tray 2, paper pickup assembly            | <a href="#">Internal assemblies (5 of 6) on page 163</a> |
| RM1-8506-000CN | Idler roller assembly                    | <a href="#">Internal assemblies (5 of 6) on page 163</a> |
| RM1-8507-000CN | Registration roller assembly             | <a href="#">Internal assemblies (3 of 6) on page 159</a> |
| RM1-8508-000CN | Fuser assembly                           | <a href="#">Internal assemblies (5 of 6) on page 163</a> |
| RM1-8512-000CN | Cassette, Tray 2                         | <a href="#">Internal assemblies (3 of 6) on page 159</a> |
| RM1-8514-000CN | Low-voltage power supply (LVPS) assembly | <a href="#">Internal assemblies (5 of 6) on page 163</a> |
| RM1-8515-000CN | Switch assembly                          | <a href="#">Internal assemblies (4 of 6) on page 161</a> |
| RM1-8516-000CN | Cover, top assembly                      | <a href="#">Covers on page 147</a>                       |
| RM1-8517-000CN | Cover, left assembly                     | <a href="#">Covers on page 147</a>                       |
| RM1-8518-000CN | Cover, rear assembly                     | <a href="#">Covers on page 147</a>                       |
| RM1-8519-000CN | High-voltage power supply (HVPS) PCA     | <a href="#">Internal assemblies (4 of 6) on page 161</a> |
| RM1-8521-000CN | Tag holder assembly                      | <a href="#">Internal assemblies (1 of 6) on page 155</a> |
| RM1-8523-000CN | Fuser motor assembly                     | <a href="#">Internal assemblies (6 of 6) on page 165</a> |
| RM1-8615-000CN | DC controller PCA                        | <a href="#">Internal assemblies (5 of 6) on page 163</a> |
| RM1-8617-000CN | Top sensor PCA                           | <a href="#">Internal assemblies (4 of 6) on page 161</a> |
| RM1-8618-000CN | Paper-width sensor PCA                   | <a href="#">Internal assemblies (4 of 6) on page 161</a> |
| RM1-8620-000CN | Tray sensor PCA                          | <a href="#">Internal assemblies (6 of 6) on page 165</a> |
| RM1-8621-000CN | Multipurpose sensor PCA                  | <a href="#">Internal assemblies (5 of 6) on page 163</a> |
| RM1-8622-000CN | Sensor, environmental PCA                | <a href="#">Internal assemblies (1 of 6) on page 155</a> |
| WG8-5935-000CN | Photo interrupter, IC                    | <a href="#">Internal assemblies (6 of 6) on page 165</a> |
| WG8-5935-000CN | Photo interrupter, IC                    | <a href="#">Internal assemblies (1 of 6) on page 155</a> |



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