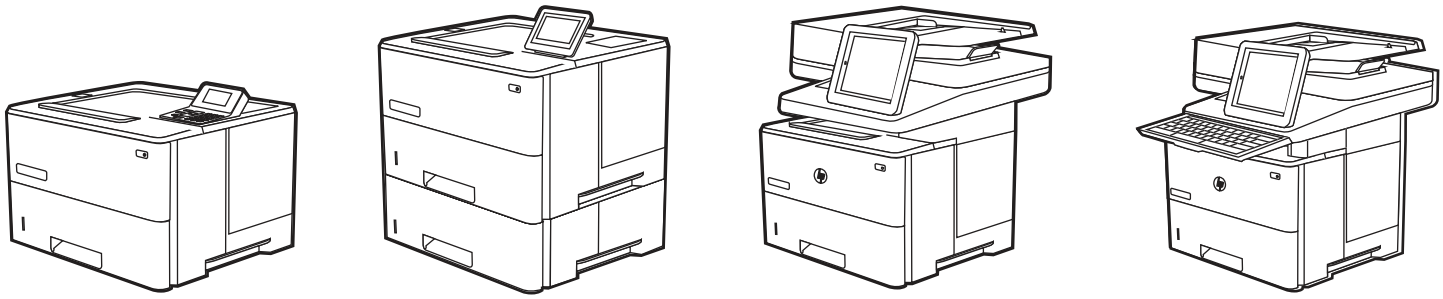
HP LaserJet Pro M501
HP LaserJet Enterprise M506, M507
HP LaserJet Enterprise MFP M527, M528
HP LaserJet Managed E50145, MFP E52645
HP LaserJet Managed E50045, MFP E52545

Service Manual: Repair



www.hp.com/videos/LaserJet
www.hp.com/support/ljM501
www.hp.com/support/ljM506
www.hp.com/support/ljM507
www.hp.com/support/ljM527mfp
www.hp.com/support/ljM528mfp
www.hp.com/support/ljE50045
www.hp.com/support/ljE50145
www.hp.com/support/ljE52545mfp
www.hp.com/support/ljE52645mfp

HP LaserJet Pro M501; HP LaserJet Enterprise M506, M507 and MFP M527, MFP M528; HP LaserJet Managed E50045 and MFP E52545; HP LaserJet Managed E50145 and MFP E52645 - Service Manual: Repair

SUMMARY

Learn how to remove and replace supported service parts on the printer. Parts are either customer-self repair (CSR) replaceable, or field replaceable units (FRUs) which require installation by a trained field-service technician. Use the provided parts diagrams and tables to identify the required part. For printer theory and troubleshooting information, see the Troubleshooting Manual .

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Edition 10, 7/2021

Revision history

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Table Revision history

Revision number	Revision date	Revision notes
10	7/2021	Added: Assembly-Intermediate Paper Feed as Not Shown in Table 2-10 Parts and diagrams: Internal assemblies (3 of 4) on page 877
9	6/2021	Updated Customer self-repair kits for Tray 2 rollers Customer self-repair kits on page 859
8	10/2020	Added new remove and replace procedure for paper delivery assembly. See Removal and replacement: Paper delivery assembly on page 734 Added one new step to Removal and replacement fuser power supply.
7	5/2020	Added all M507 Control panel part numbers, new formatter numbers, updated SCB number
6	1/2020	Updated two photos
5	11/2019	Corrected part numbers for Formatters
4	1/2020	Updated document feeder roller removal and replacement topic. See Removal and replacement: Document feeder rollers (MFP) on page 806.
3	5/2019	Updated or added repair topics to include the M507/E50145/M528/E52645: • Removal and replacement: Control panel (M506x/E50045x/ M507x/E50145x) on page 54 • Removal and replacement: White backing (MFP) on page 63

Table Revision history (continued)

Revision number	Revision date	Revision notes
		• Removal and replacement: Control panel (M501, 507n/dn, and E50145n/dn) on page 79 • Removal and replacement: Document feeder (MFP) on page 96 • Removal and replacement: Top cover (SFP) on page 182 • Removal and replacement: Wireless printed-circuit board (WiFi) (M507x/E50145x) on page 299 • Install accessory: Internal USB ports (M506/E50045) on page 832 • Install accessory: Trusted platform module (TPM) on page 845
3	5/2019	Updated or added parts topics to include the M507/E50145/M528/E52645: • Supplies and accessories on page 857 • Customer self-repair kits on page 859 • Parts and diagrams: Document feeder and scanner whole units on page 866 • Parts and diagrams: Covers (M501/M506/E50045/M507/E50145) on page 868 • Parts and diagrams: Covers (M527/E52545/M528/E52645) on page 871 • Parts and diagrams: Internal assemblies (1 of 4) on page 873 • Parts and diagrams: Internal assemblies (2 of 4) on page 875 • Parts and diagrams: Internal assemblies (3 of 4) on page 877 • Parts and diagrams: Internal assemblies (4 of 4) on page 879
2	4/2016	LaserJet Pro M501 content added.
1	10/2015	HP LaserJet Enterprise M506/M527 Repair Manual initial release.

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1 Removal and replacement

When servicing the printer, several items must be taken into account to ensure a successful repair and to avoid damage to the printer or injury. Learn about these considerations and find detailed instructions for removing and replacing printer parts.

Conventions used in this guide

Learn about the conventions used in this publication.

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.

HP service and support

Learn about HP access to additional service and support information.

Additional service and support for channel partners

Channel partners go to partner.hp.com, and then use the steps below to access the HP Web-based Interactive Search Engine (WISE).

View a video of how to use the HP Partner First Portal to access WISE.

Access WISE for Channel partners

1. Select Services & Support (near the top of the screen).
2. Under Services Delivery, select Technical Support.
3. Select Technical Documentation.

Find information about the following topics

- Service manuals
- Service advisories
- Up-to-date control panel message (CPMD) troubleshooting

- Solutions for printer issues and emerging issues
- Remove and replace part instructions and videos
- Install and configure
- Printer specifications
- Warranty and regulatory information

Additional service and support for HP internal personnel

HP internal personnel, go to one of the following Web-based Interactive Search Engine (WISE) sites:

View a video of how to access WISE for internal HP users.

Americas (AMS)

- WISE - English
- WISE - Spanish
- WISE - Portuguese
- WISE - French

Asia Pacific / Japan (APJ)

- WISE - English
- WISE - Japanese
- WISE - Korean
- WISE - Chinese (simplified)
- WISE - Chinese (traditional)
- WISE - Thai

Europe / Middle East / Africa (EMEA)

- WISE - English

Additional technical support WISE videos

The videos below provide additional ways to access printer information using WISE.

View a video of how to use WISE to find technical support videos (model number search).

View a video of ow to use WISE to find technical support videos (Product detail page [PDP] search).

Removal and replacement strategy

The printer uses a field repair strategy. Defective parts are diagnosed and replaced at the Field Replaceable Unit (FRU) assembly level. Follow some basic safety precautions to avoid injury or printer damage. Learn about the tools required to service the printer and the types of fasteners used.

Introduction

Learn the overall process for troubleshooting failures and replacing parts, as well as items of note related to installing and tracking printer supplies

Repair normally begins by using the printer internal diagnostics and the following two-step process:

1. Isolate the problem to the major system (for example, the network, the server, or the printer).
2. Identify the cause of failures according to the troubleshooting section in the printer service manual, and follow the disassembly procedures to replace the defective parts or the consumable parts.

IMPORTANT: See the separate control panel message document (CPMD) for this printer for control panel error message descriptions and solutions (also available online).

After locating a faulty part, the printer can usually be repaired at the assembly level by replacing the field replaceable unit (FRUs). HP does not support replacement of components on the printed circuit assemblies (PCAs).

The user replaces supplies (cartridges) as they are depleted. Additional instructions about other user-replaceable parts are provided in this section.

The printer tracks the amount of use on the customer-replaceable supplies by keeping a page count. The printer prompts the user to replace certain items when a supply is depleted or a specific number of pages have been printed.

Swapping supplies between products might be necessary in some test scenarios. However, this might cause a misrepresentation of supply life values, and is not recommended.

Considerations during removal and replacement

Understand the items to take into account when removing and replacing parts.

This chapter describes the FRUs.

Reinstalling FRUs is generally the reverse of removal. Notes are included to provide directions for difficult or critical replacement procedures.

HP does not support repairing individual subassemblies or troubleshooting at the PCA component level.

WARNING! Never operate or service the printer with the protective cover removed from the laser scanner assembly. The reflected beam, although invisible, can cause damage to the eyes.

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

Turn the printer off, wait five seconds, and then remove the power cord before attempting to service the printer. **If this warning is not followed, severe injury can result as well as damage to the printer**. The power must be on for certain functional checks during troubleshooting. However, the power cord must be disconnected during parts removal. AC voltage is still present inside the printer when the power switch is in the off position. The power cord must be disconnected before servicing the printer.

CAUTION: Incorrectly routed or loose wire harnesses or flat flexible cables (FFCs) might interfere with other internal components or assemblies and can be damaged, pinched, or frayed. Make sure that wire harnesses are correctly routed and retained when installing assemblies.

Do not bend or fold the FFCs during removal or installation.

Do not expose the toner cartridges or imaging drums to strong light even for a short time.

IMPORTANT: When an assembly is removed that includes a rating plate, tag, or a printer code label, make sure to transfer the plate, tag, or code label to the replacement assembly.

Do not replace the formatter, DC controller, memory PCA (island of data), eMMC PCA, or hard-disk drive (HDD) simultaneously during a single printer servicing. Doing so might cause the printer to become unstable or inoperable.

When replacing the formatter, make sure that all accessories installed on the formatter, such as the fax PCA, hard disk drive, trusted platform module, and DIMM, are removed from the defective formatter and installed on the replacement formatter. Make sure that the formatter is a new service part that has not been installed in a different device.

NOTE: During assembly removal and replacement, or if the printer is moved, remove the toner cartridges, the imaging drums, and the toner collection unit.

Toner is a non-poisonous substance composed of plastic and a small number of colored components. If toner gets on the skin or clothing, wipe it off with dry tissue paper and wash in cold water. Hot water sets toner and it might be difficult, or impossible, to remove. Toner easily breaks down vinyl materials, so avoid letting toner contact vinyl.

TIP: Some figures might show assemblies removed or installed that have not yet been removed or installed at that specific step. However, the procedures are correct for this printer and the target assembly. Always thoroughly read the instructions that accompany each figure.

Electrostatic discharge

Learn how to protect sensitive parts against damage from electrostatic discharge.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Look for the ESD reminder when removing printer parts. Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly.

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

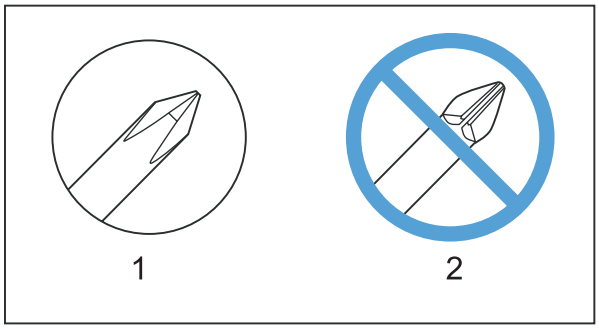
Required tools

Find information about the tools required to remove and replace parts on the printer.

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

CAUTION: Always use a #2 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 Screwdrivers



Fasteners used in this printer

Learn about the different types of screws used in the printer and the importance of installing the correct type of screw in the correct location when replacing a part.

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

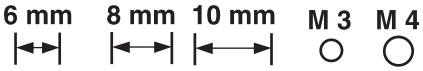
NOTE: To install a self-tapping screw, first turn it counterclockwise to align it with the existing thread pattern, and then carefully turn it clockwise to tighten. Do not overtighten. If a self-tapping screw hole becomes stripped, repair the screw hole or replace the affected assembly.

Always take note of the length, diameter, color, type, and location of each removed screw. Make sure that screws are installed in their original location during reinstallation.

Types of screws used in the printer

- Screw, BH M3x10
- Screw, W/Washer, M3x8
- Screw, D, M3x8
- Screw, Machine, Truss Head, M3x6

Figure 1-2 Screw size chart



Service approach

Follow these steps before and after performing service on the printer to prevent damage to the printer and ensure that the repair was successful.

Before performing service

Follow these steps before performing any type of service on the printer.

⚠ WARNING! Turn the printer off, wait five seconds, and then remove the power cord before attempting to service the printer. **If this warning is not followed, severe injury can result as well as damage to the printer**. The power must be on for certain functional checks during troubleshooting. However, the power cord must be

disconnected during parts removal. AC voltage is still present inside the printer when the power switch is in the off position. The power cord must be disconnected before servicing the printer.

1. Turn the printer off using the power button.
2. Unplug the power cable and interface cable or cables.
3. 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.
4. Remove the toner cartridge(s) and/or imaging drum(s). Place a sheet of paper over the cartridges or imaging drums to protect them from excessive light exposure.
5. Remove all paper from the trays.
6. Remove the tray(s).

After performing service

Follow these steps after performing service on the printer.

1. Verify that you have completed the necessary reassembly steps.
2. Reinstall the tray(s).
3. Return all paper to the trays.
4. Reinstall the toner cartridge(s) and/or imaging drum(s).
5. Plug in the power cable and interface cable or cables.
6. Turn the printer on using the power button.
7. Verify that the expected start up sounds occur.

Print quality test

Ensure that the print quality is acceptable after performing printer repairs.

Use the printer internal print quality pages to help diagnose and solve print-quality problems. For more information, see the troubleshooting section in the service manual.

NOTE: To get further assistance in print quality troubleshooting, go to http://www.hp.com/support/ljM501 or http://www.hp.com/support/ljM506 or http://www.hp.com/support/ljE50045 or http://www.hp.com/support/ljM507 or http://www.hp.com/support/ljE52545mfp or http://www.hp.com/support/ljE50145 or http://www.hp.com/support/ljM527mfp or http://www.hp.com/support/ljM528mfp or http://www.hp.com/support/E52645mfp. Select **Troubleshooting**, select **Print**, and then select **Print Quality**.

Removal and replacement procedures

Learn how to remove and replace selected parts on the printer.

Customer self-repair (CSR) A parts and accessories

Customer self-repair (CSR) A parts are parts that a customer replaces without assistance from a field technician. These parts can be replaced without the use of any tools.

Removal and replacement: Toner cartridge

Learn how to remove and replace the toner cartridge.

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the toner cartridge.

Mean time to repair: 5 minutes

Service level: CSR A

Before performing service

Turn the printer power off

- Disconnect the power cable.

⚠ **WARNING!** To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-1 Part number

Part number	Part description
CF287A CF287-67901 (service)	HP 872A Black Original LaserJet Toner Cartridge (M501/M506/E50045/M527/E52545 only.) Standard-capacity replacement black toner cartridge
CF287X CF287-67902 (service)	HP 872X High Yield Black Original LaserJet Toner Cartridge (M501/M506/E50045/ M527/E52545 only.) High-capacity replacement black toner cartridge
CF289A CF289-67901 (service)	HP 89A Black Original LaserJet Toner Cartridge (M507/M528/E52545/E52645 only) Standard-capacity replacement black toner cartridge
CF289X CF289-67902 (service)	HP 89X High Yield Black Original LaserJet Toner Cartridge (M507/M528/E52545/ E52645 only) High-capacity replacement black toner cartridge
CF289Y CF289-67903 (service)	HP 89Y Extra High Yield Black Original LaserJet Toner Cartridge (M507/M528/E52545/ E52645 only) Extra High-capacity replacement black toner cartridge
CF289YC CF289-67904 (service)	HP Black contract LaserJet Toner Cartridge (M507/M528/E52545/E52645 only)
CF289A CF289-67905 (service)	HP Black managed LaserJet Toner Cartridge (M507/M528/E52545/E52645 only)

Required tools

No special tools are required to remove or install this assembly.

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

Make sure that the printer initializes to a **Ready** state.

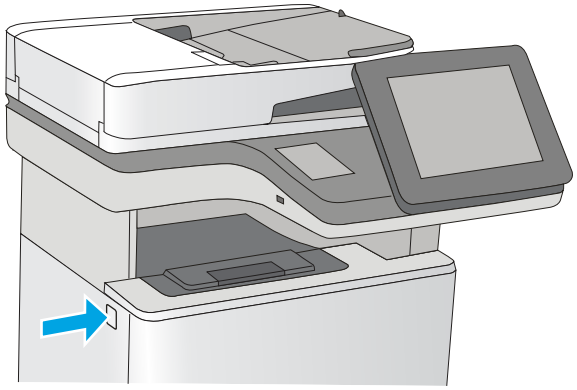
Print a configuration page to make sure that the printer is functioning correctly.

1. Remove the toner cartridge.

   An MFP printer is shown in this section. However, the procedure is correct for all printer models.

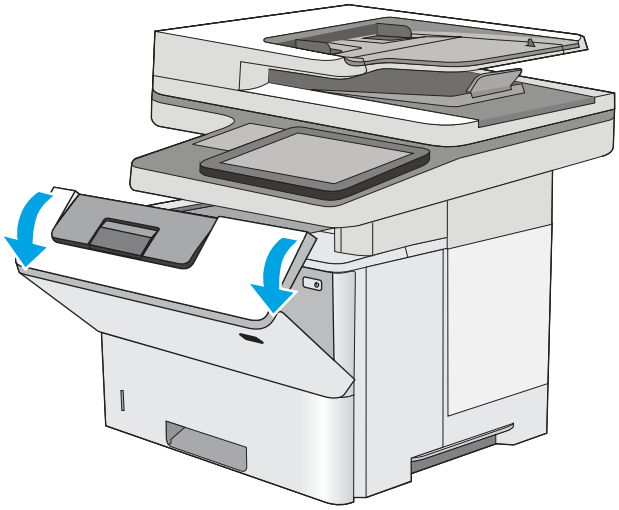
   a. Press the cartridge-door-release button.

   Figure 1-3 Press the cartridge-door-release button

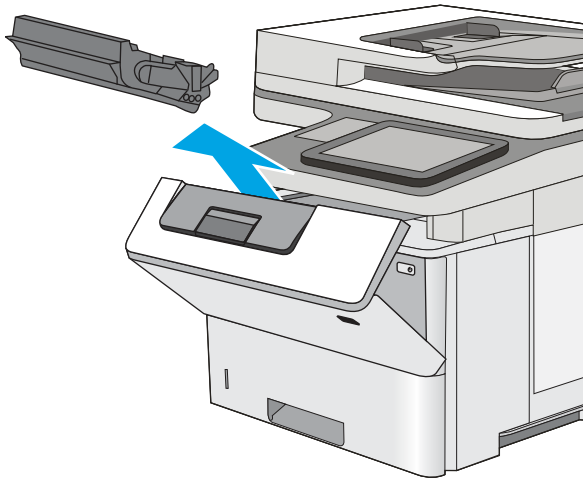
   b. Open the toner-cartridge door.

   Figure 1-4 Open the toner-cartridge door

c. Remove the toner cartridge from the printer.

Figure 1-5 Remove the toner cartridge



2. Unpack the replacement toner cartridge.

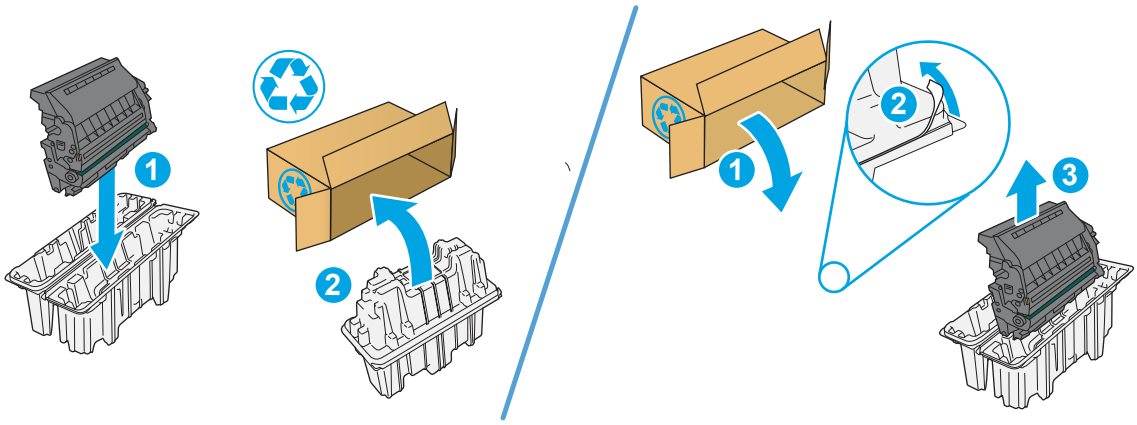
a. Dispose of the old part.

NOTE: HP recommends responsible disposal of the defective part.

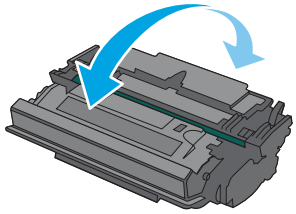
b. Unpack the replacement part from the packaging.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

Figure 1-6 Recycle and unpack



NOTE: When installing a replacement toner cartridge, hold both ends of the toner cartridge and rock it back and forth 5-6 times.

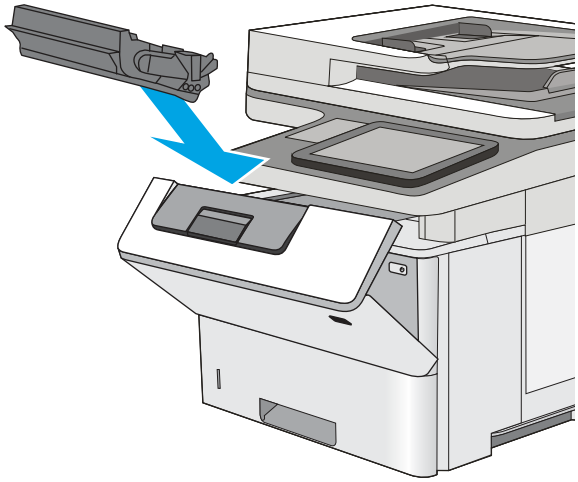


3. Install the toner cartridge.

   An MFP printer is shown in this section. However, the procedure is correct for all printer models.

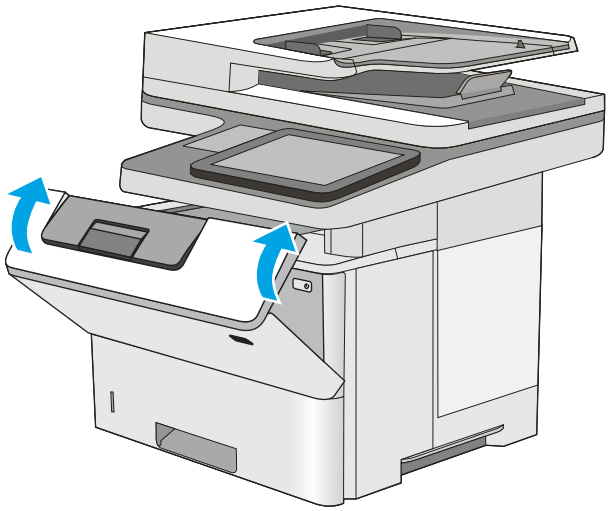
   a. Align the toner cartridge with the tracks inside the printer, and then install the toner cartridge until it is firmly seated.

   Figure 1-7 Install the toner cartridge



b. Close the toner-cartridge door.

Figure 1-8 Close the toner-cartridge door



Removal and replacement: Staple cartridge (MFP)

Learn how to remove and replace the staple cartridge.

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the staple cartridge.

Mean time to repair: 5 minutes

Service level: CSR A

Before performing service

Turn the printer power off

- Disconnect the power cable.

⚠ **WARNING!** To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-2 Part information

Part number	Part description
Q7432A	HP staple cartridge pack (new)
Q7432-67901	HP staple cartridge pack (service)

Required tools

No special tools are required to remove this part.

No special tools are required to remove or install this assembly.

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

Make sure that the printer initializes to a **Ready** state.

Print a configuration page to make sure that the printer is functioning correctly.

1. Remove the staple cartridge.

NOTE: Stapler models only

a. Open the stapler door.

Figure 1-9 Open the stapler door

b. Pull the staple cartridge straight out of the printer to remove it.

Figure 1-10 Remove the staple cartridge

2. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

3. Install the staple cartridge.

NOTE: Stapler models only

a. Push the staple cartridge straight into the printer to install it.

Figure 1-11 Install the staple cartridge

b. Close the stapler door.

Figure 1-12 Close the stapler door

Removal and replacement: embedded Multi-Media Card (eMMC) (all except M501)

Learn how to remove and replace the embedded Multi-Media Card (eMMC)

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the eMMC.

Mean time to repair: 5 minutes

Service level: CSR A

Before performing service

Turn the printer power off

- Disconnect the power cable.

WARNING! To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

CAUTION: This part contains components that are electrostatic discharge (ESD) sensitive. To reduce the possibility of ESD damage, always touch the sheet-metal chassis to ground yourself before touching an ESD sensitive part.

IMPORTANT: Do not replace the formatter, DC controller, and eMMC PCA simultaneously during a single printer servicing. Doing so might cause the printer to become unstable or inoperable.

NOTE: Data stored on the eMMC is not secure and cannot be encrypted.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-3 Part information

Part number	Part description
5851-6436 (M527dn/E52545dn/M528dn/ E52645dn)	embedded Multi-Media Card (eMMC) with instruction guide
B5L32-67901 (M506/E50045/M507/E50145)	embedded Multi-Media Card (eMMC) with instruction guide

Required tools

No special tools are required to install this part.

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

Make sure that the printer initializes to a **Ready** state.

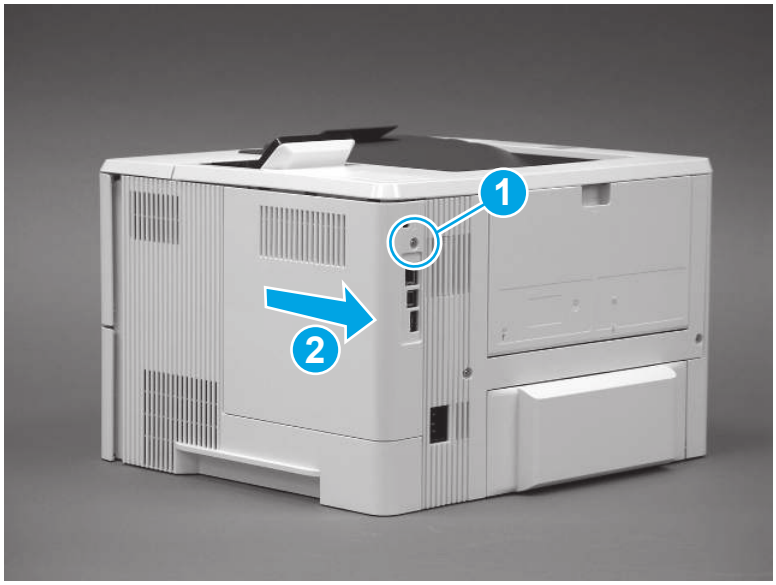
Print a configuration page to make sure that the printer is functioning correctly.

1. Remove the formatter cover.

▲ Do one of the following:

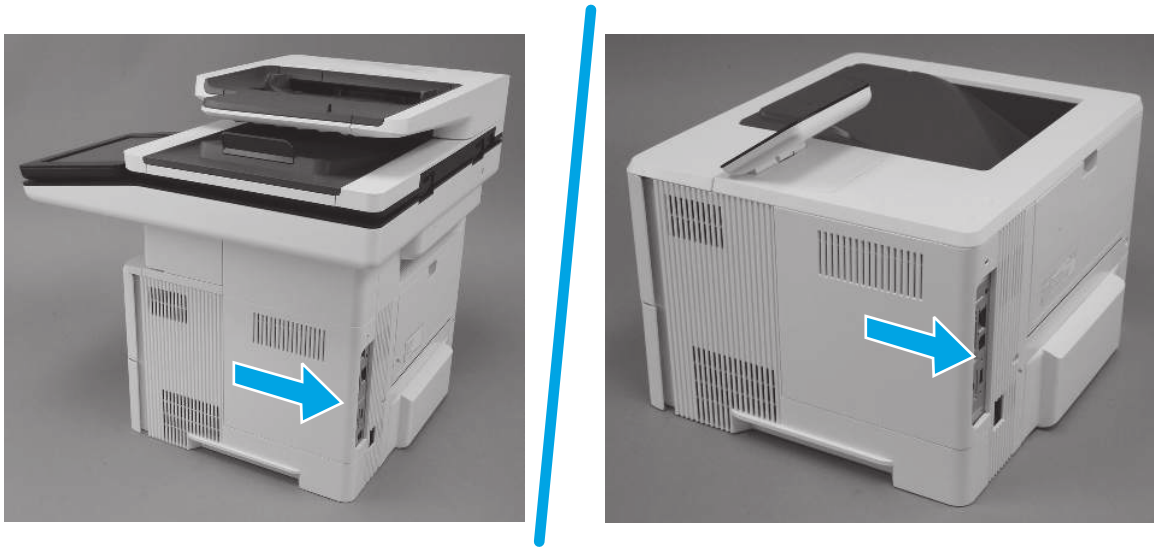
- **M501**: Remove one screw (callout 1), and then slide the cover toward the rear of the printer to remove it (callout 2).

Figure 1-13 Remove the formatter cover (M501)



- M506/E50045/M507/E50145/M527/E52545/M528/E52645: Slide the cover toward the rear of the printer to remove it.

Figure 1-14 Remove the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)

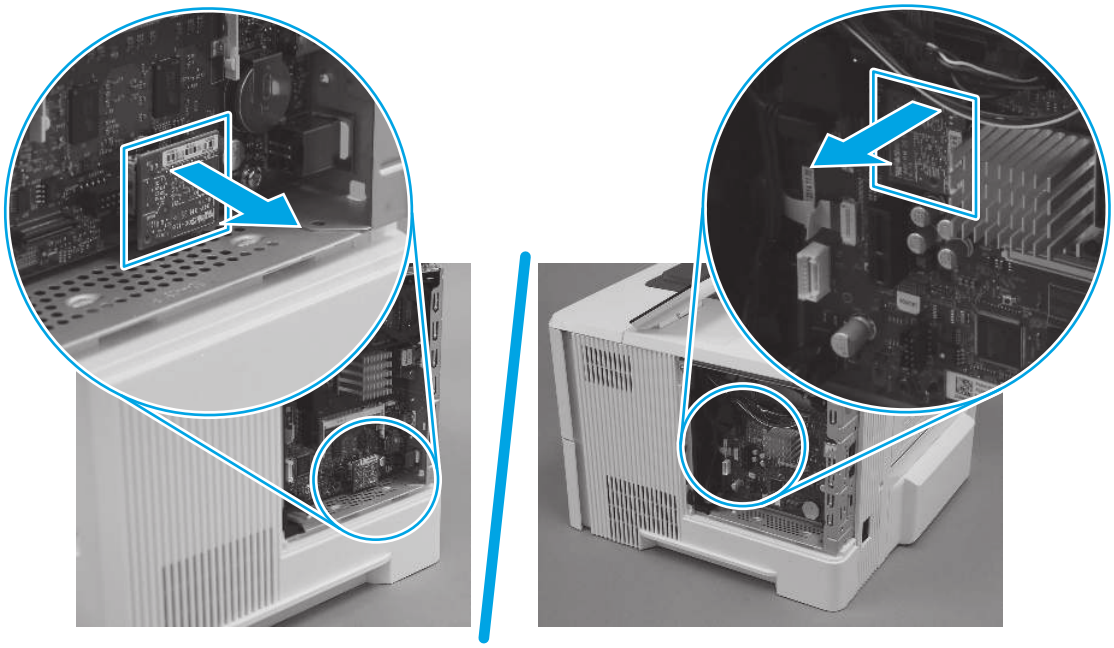


2. Remove the embedded Multi-Media Card (eMMC models).

CAUTION: ESD sensitive part.

▲ Locate the eMMC component on the formatter, and then pull it straight off of the formatter to remove it.

Figure 1-15 Remove the eMMC



3. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

4. Install the eMMC (eMMC models).

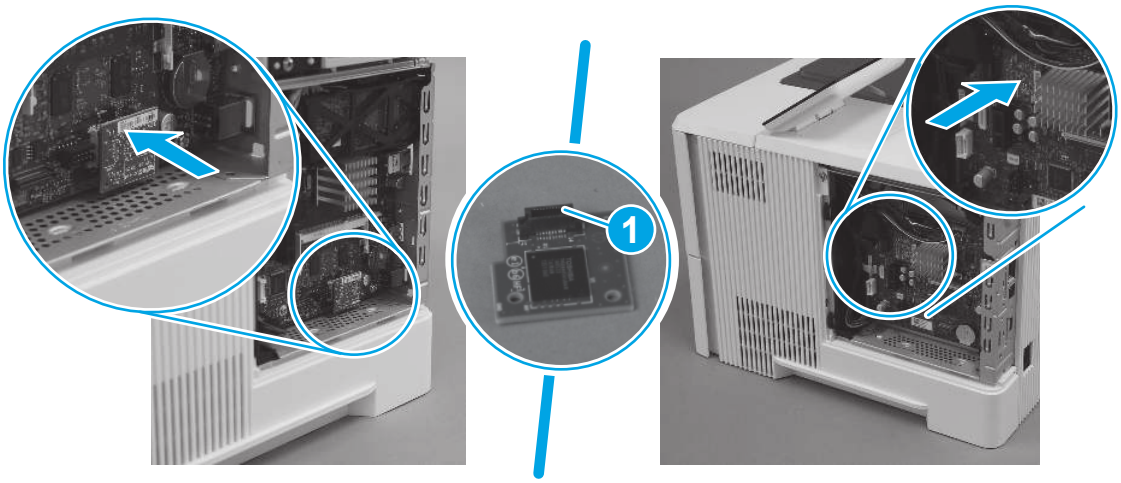
CAUTION: ESD sensitive part.

▲ Align the connector on the replacement eMMC (callout 1) with the connector on the formatter, and then push the eMMC onto the formatter to install it.

IMPORTANT: Push on the eMMC at the location shown by the arrow. Ignore any “Push here” label on the eMMC itself. Make sure that the eMMC is fully seated in the connector .

NOTE: The eMMC can only be installed in one direction on the formatter.

Figure 1-16 Install the eMMC

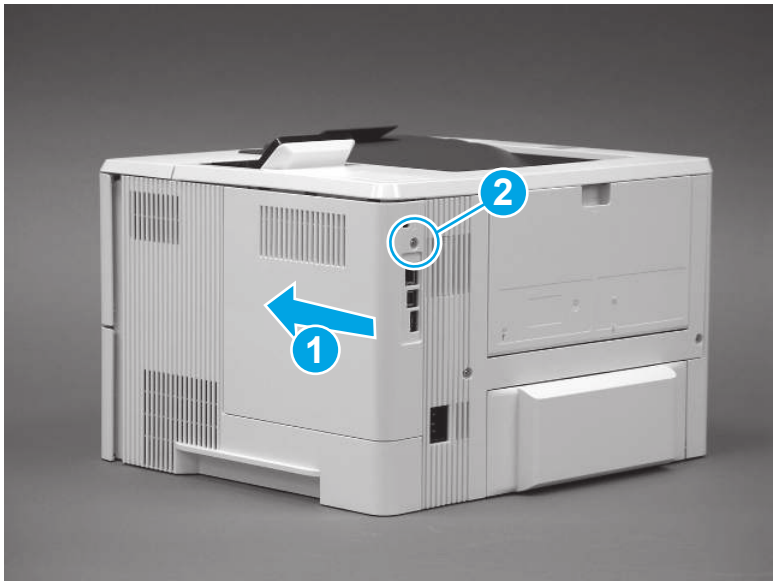


5. Install the formatter cover.

▲ Do one of the following:

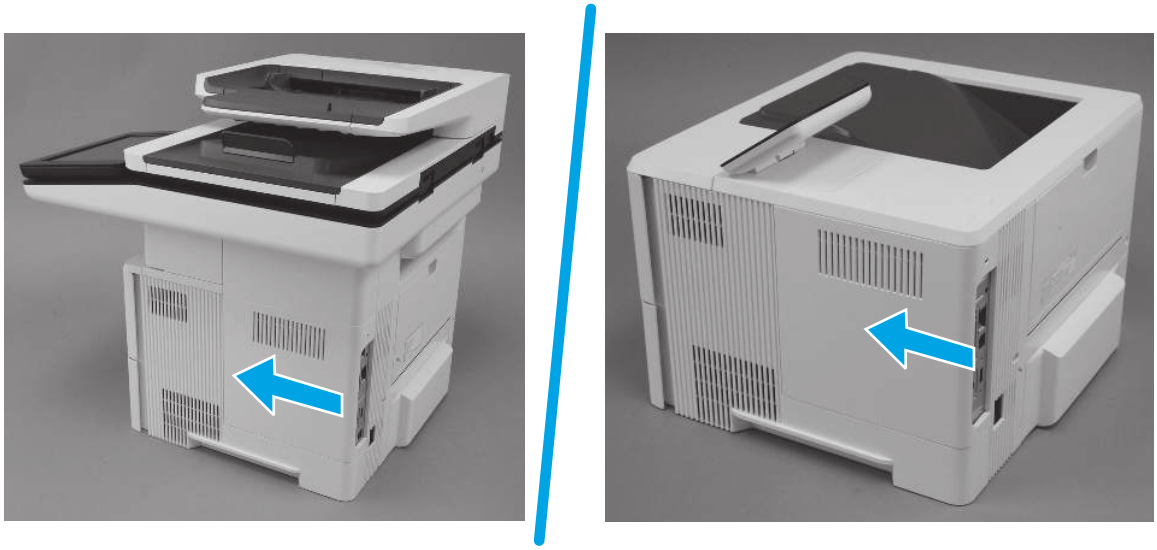
- M501: Slide it toward the front of the printer to install it (callout 1), and then install one screw (callout 2).

Figure 1-17 Install the formatter cover (M501)



- M506/E50045/M507/E50145/M527/E52545/M528/E52645: Slide it toward the front of the printer to install it.

Figure 1-18 Install the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)



6. Reverse the removal steps to install the assembly. Also use the following special installation instructions.

   Reinstall the printer firmware

   a. Go to www.hp.com/go/futuresmart.

   b. Select Upgrade now.

   c. Find your Enterprise printer model.

   d. Select the link to open the firmware download page.

   e. Select OS Independent from the list of operating systems.

f. Under the **Firmware** section, find the file for multiple operating systems.

g. Select **Download**.

Reinstallation tip: To view installation instructions, go to http://www.hp.com/go/futuresmart. Select **Upgrade now**, and then select **How to perform a firmware update**.

Removal and replacement: Hard-disk drive (HDD)

Learn how to remove and replace the hard-disk drive (HDD).

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the HDD.

Mean time to repair: 5 minutes

Service level: CSR A

Before performing service

Turn the printer power off

- Disconnect the power cable.

WARNING! To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

CAUTION: This part contains components that are electrostatic discharge (ESD) sensitive. To reduce the possibility of ESD damage, always touch the sheet-metal chassis to ground yourself before touching an ESD sensitive part.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-4 Part information

Part number	Part description
B5L29-67907	Hard-disk drive (HDD) accessory (M506/E50045/M527/E52545/M528/E52645) with instruction guide
5EL03A	Hard-disk drive (HDD) (government only)

Required tools

No special tools are required to remove or install this assembly.

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

Make sure that the printer initializes to a **Ready** state.

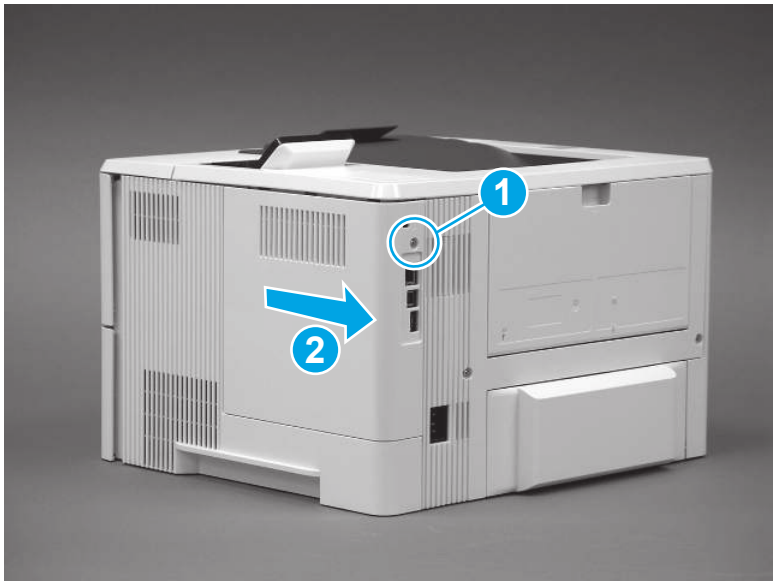
Print a configuration page to make sure that the printer is functioning correctly.

1. Remove the formatter cover.

   ▲ Do one of the following:

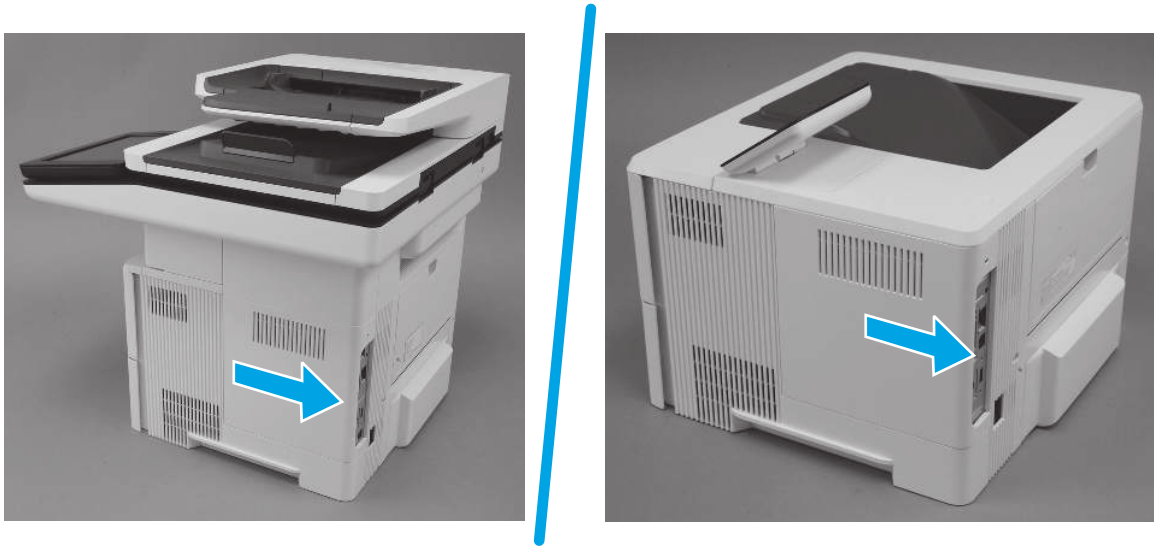
   - **M501**: Remove one screw (callout 1), and then slide the cover toward the rear of the printer to remove it (callout 2).

     Figure 1-19 Remove the formatter cover (M501)

   - **M506/E50045/M507/E50145/M527/E52545/M528/E52645**: Slide the cover toward the rear of the printer to remove it.

     Figure 1-20 Remove the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)

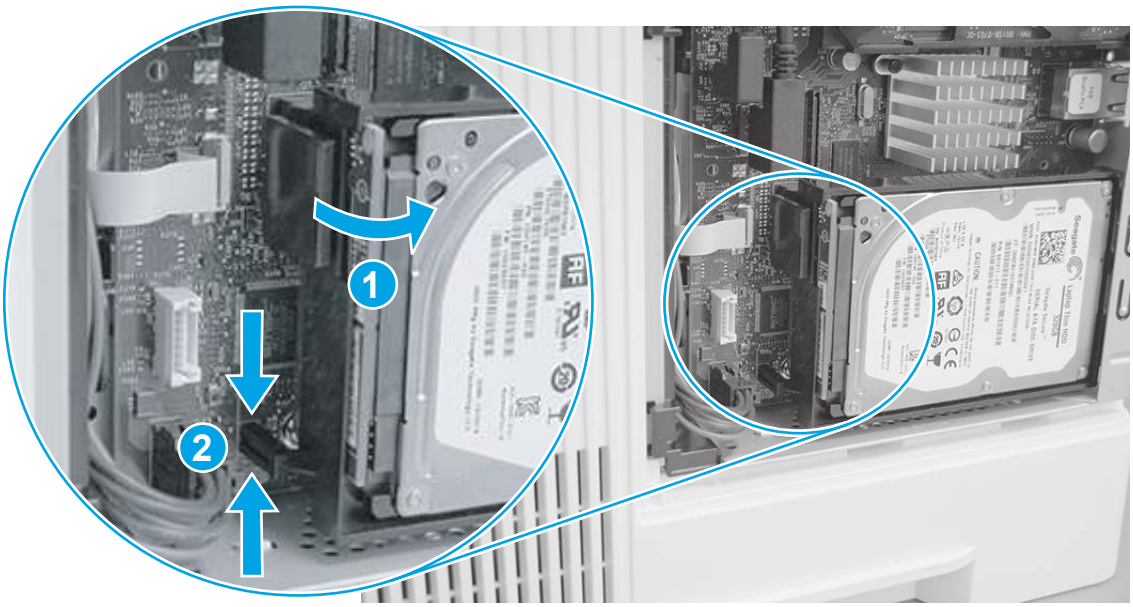
     

2. Remove the hard-disk drive (HDD models).

⚠ **CAUTION:** ESD sensitive part.

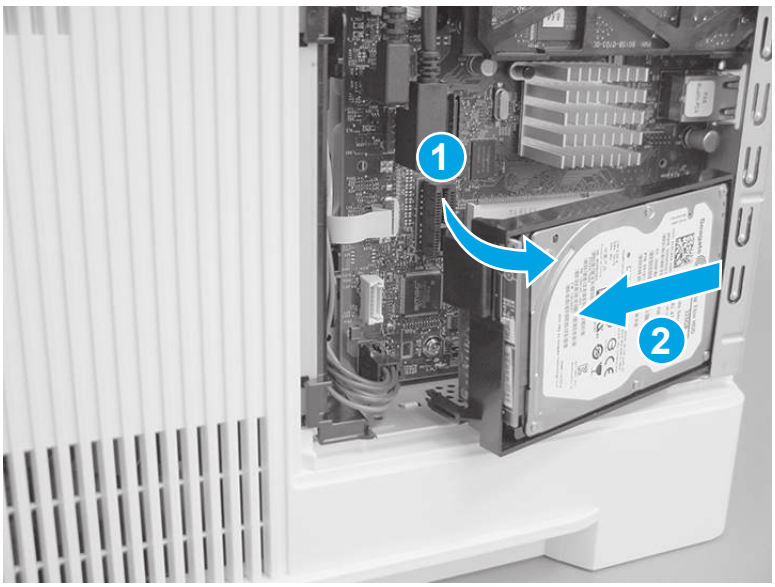
a. Release the locking connector (callout 1), and then pinch the retainer (callout 2) to release it.

Figure 1-21 Release the HDD



b. Rotate the connector end of the HDD out and away from the formatter (callout 1), and then slide it as shown (callout 2) to remove it.

Figure 1-22 Remove the HDD



3. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

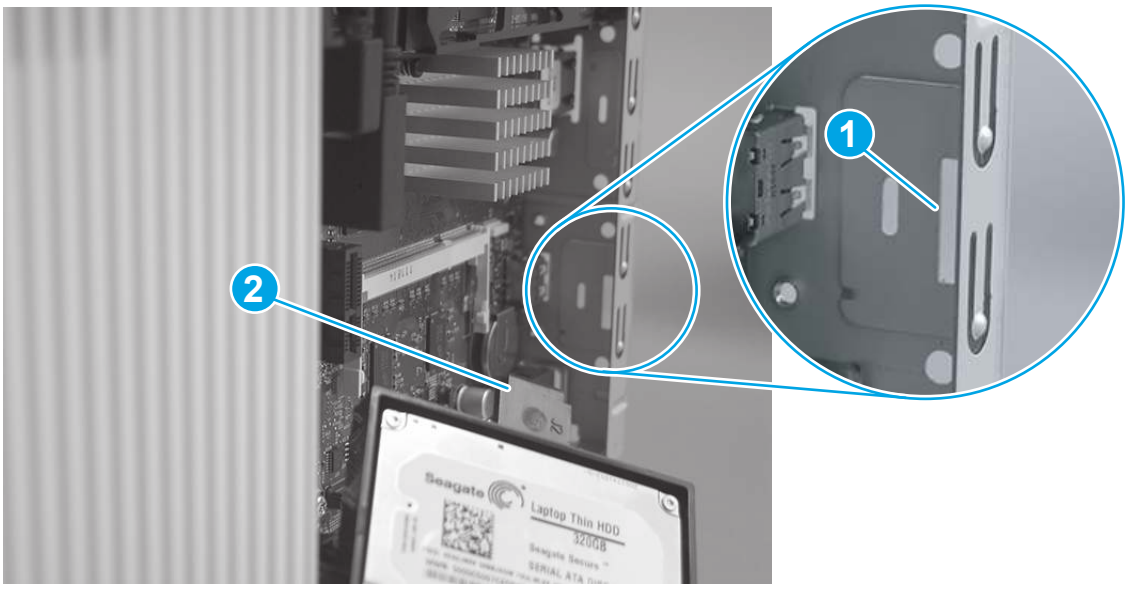
4. Install the HDD (HDD models).

CAUTION: ESD sensitive part.

a. Before proceeding, take note of the location of the slot (callout 1) in the sheet-metal where the HDD cradle mounting tab (callout 2) must be installed.

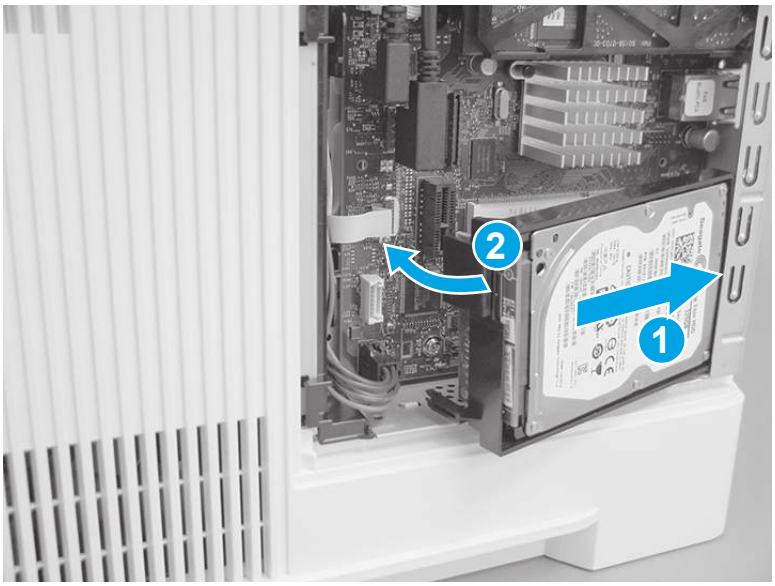
CAUTION: This portion of the sheet-metal is a knock-out plate (callout 1). Do not push on it with sufficient force to detach it when installing the HDD.

Figure 1-23 Locate the slot in the sheet-metal



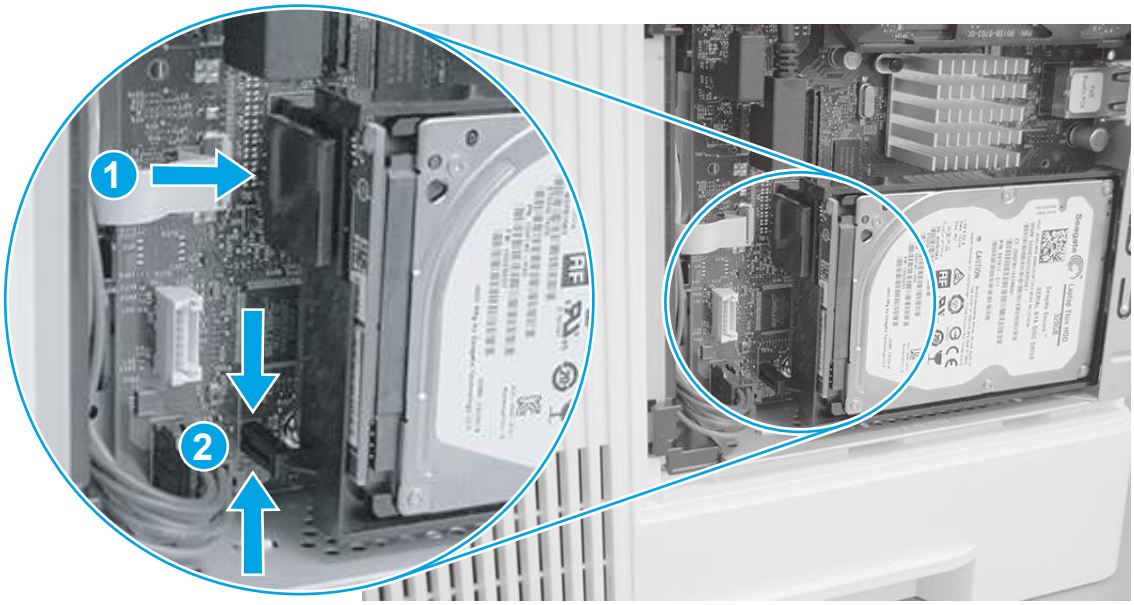
b. Insert the HDD cradle mounting tab in the slot in the sheet-metal (callout 1), and then rotate the connector end (callout 2) of the HDD toward the formatter.

Figure 1-24 Install the HDD



c. Make sure that the locking connector (callout 1) latches and that the standoff (callout 2) engages with the slot in the formatter (it might be necessary to pinch the retainer to engage it with the slot).

Figure 1-25 Install the HDD

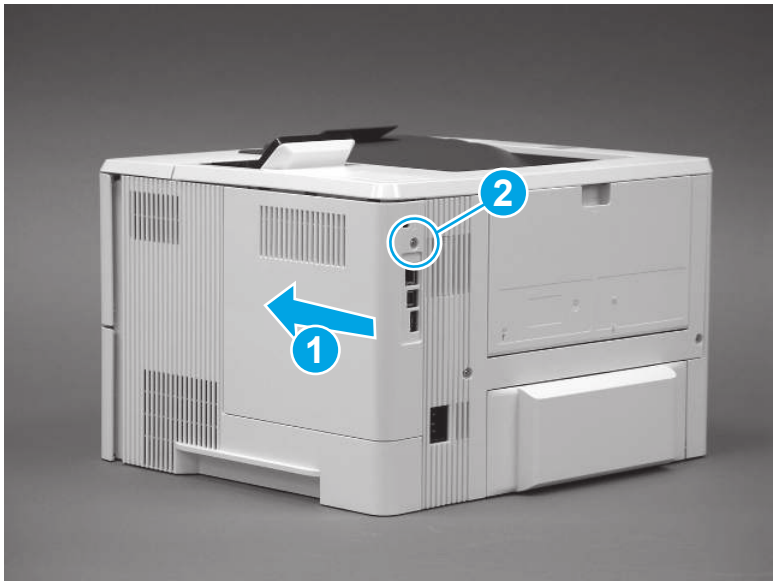


5. Install the formatter cover.

▲ Do one of the following:

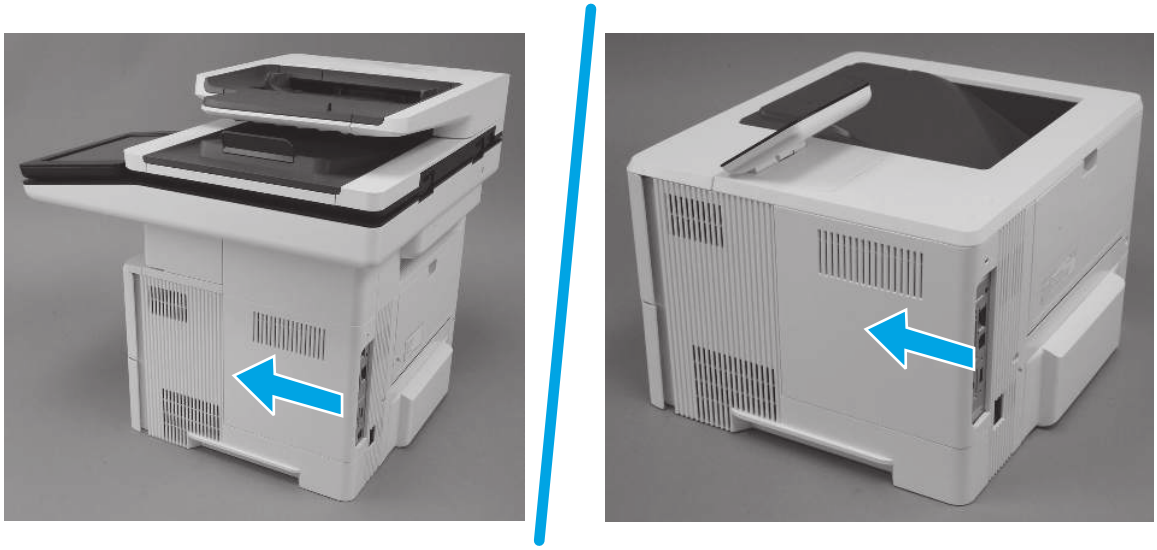
- M501: Slide it toward the front of the printer to install it (callout 1), and then install one screw (callout 2).

Figure 1-26 Install the formatter cover (M501)



- M506/E50045/M507/E50145/M527/E52545/M528/E52645: Slide it toward the front of the printer to install it.

Figure 1-27 Install the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)



6. Reverse the removal steps to install the assembly. Also use the following **special installation instructions**.

   Reinstall the printer firmware

   a. Go to www.hp.com/go/futuresmart.

   b. Select **Upgrade now**.

   c. Find your Enterprise printer model.

   d. Select the link to open the firmware download page.

   e. Select **OS Independent** from the list of operating systems.

   f. Under the **Firmware** section, find the file for multiple operating systems.

   g. Select **Download**.

   Reinstallation tip: To view installation instructions, go to http://www.hp.com/go/futuresmart. Select **Upgrade now**, and then select **How to perform a firmware update**.

Removal and replacement: Dual in-line memory module (DIMM)

Learn how to remove and replace the dual in-line memory module (DIMM).

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the DIMM.

Mean time to repair: 5 minutes

Service level: CSR A

Before performing service

Turn the printer power off

- Disconnect the power cable.

WARNING! To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

CAUTION: This part contains components that are electrostatic discharge (ESD) sensitive. To reduce the possibility of ESD damage, always touch the sheet-metal chassis to ground yourself before touching an ESD sensitive part.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-5 Part information

Part number	Part description
E5K48-67902	HP 1GB DDR3 x32 144-pin 800MHz SODIMM (M527/E52545/M528/E52645)
5851-6581	HP 2GB DDR3 x32 144-pin 800MHz SODIMM (M527/E52545/M528/E52645)
G6W84-67902	HP 1GB 90-pin DDR3 x32 Slim DIMM (M506/E50045/M507/E50145)
2NR03-67901	1GB 90-Pin DDR3 Slim DIMM TAA-Compliant (M506/E50045/M507/E50145)
2NR09-67901	2GB 144-Pin DDR3 DIMM TAA-Compliant (M527/E52545/M528/E52645)

Required tools

No special tools are required to remove or install this assembly.

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

Make sure that the printer initializes to a **Ready** state.

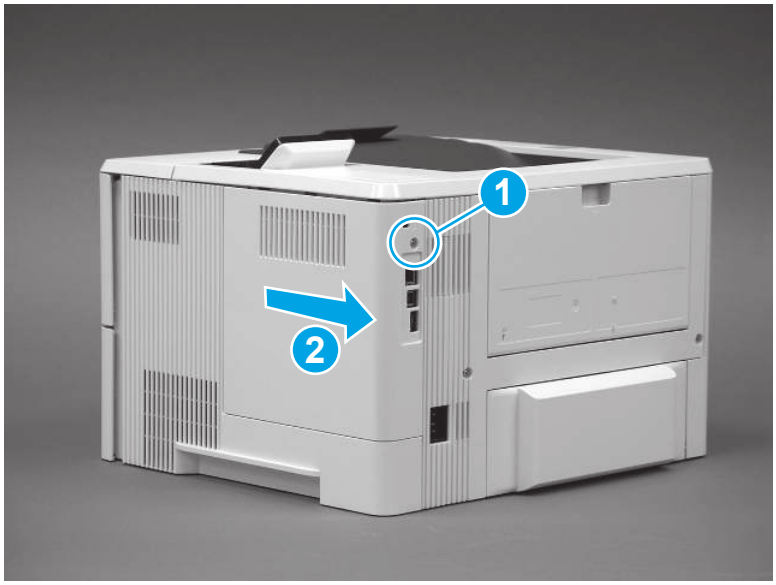
Print a configuration page to make sure that the printer is functioning correctly.

1. Remove the formatter cover.

▲ Do one of the following:

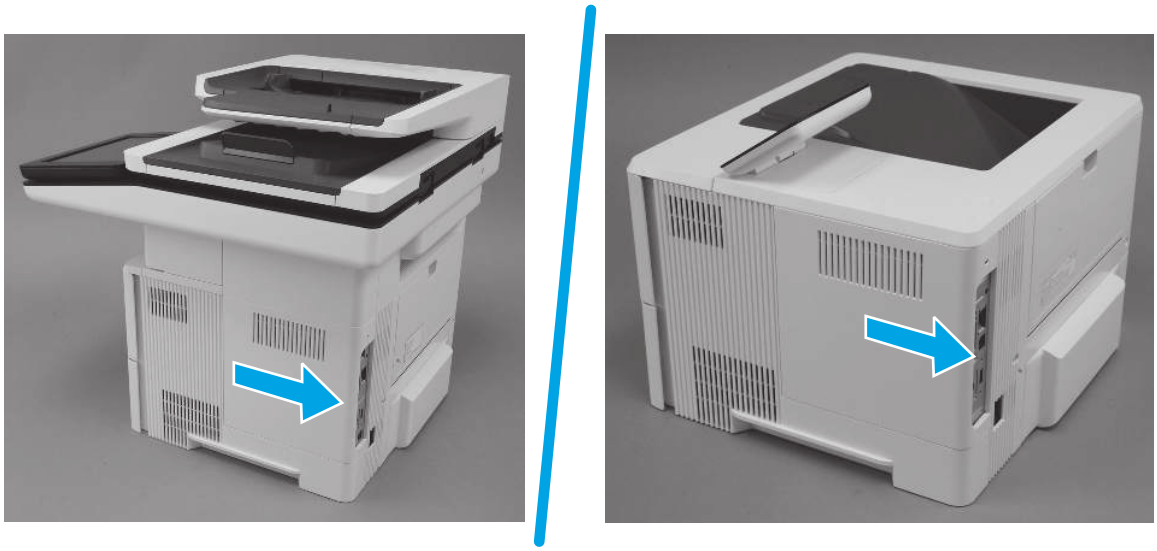
- M501: Remove one screw (callout 1), and then slide the cover toward the rear of the printer to remove it (callout 2).

Figure 1-28 Remove the formatter cover (M501)



- M506/E50045/M507/E50145/M527/E52545/M528/E52645: Slide the cover toward the rear of the printer to remove it.

Figure 1-29 Remove the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)

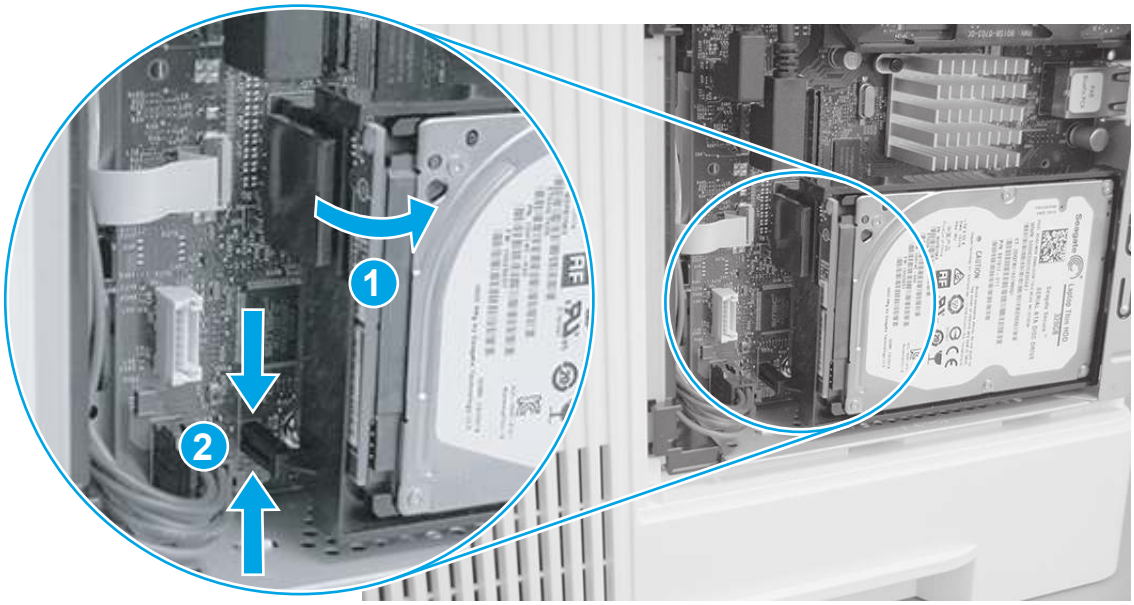


2. Remove the hard-disk drive (HDD models).

CAUTION: ESD sensitive part.

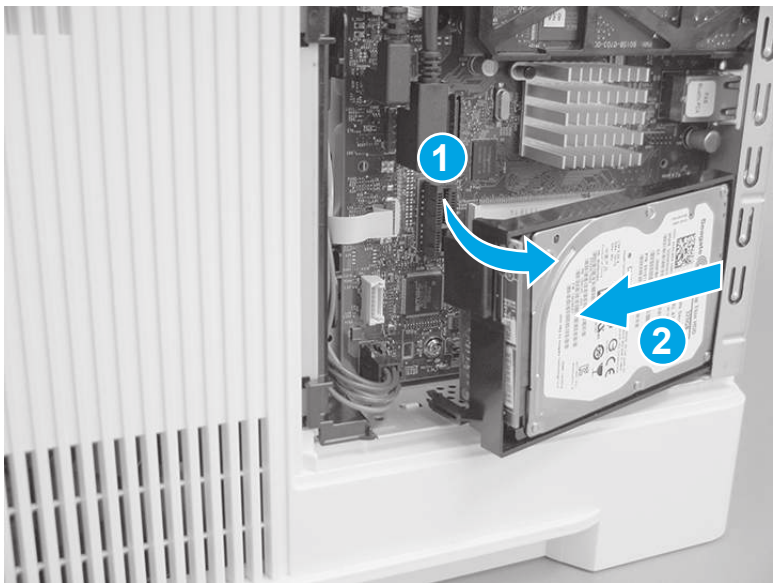
a. Release the locking connector (callout 1), and then pinch the retainer (callout 2) to release it.

Figure 1-30 Release the HDD



b. Rotate the connector end of the HDD out and away from the formatter (callout 1), and then slide it as shown (callout 2) to remove it.

Figure 1-31 Remove the HDD



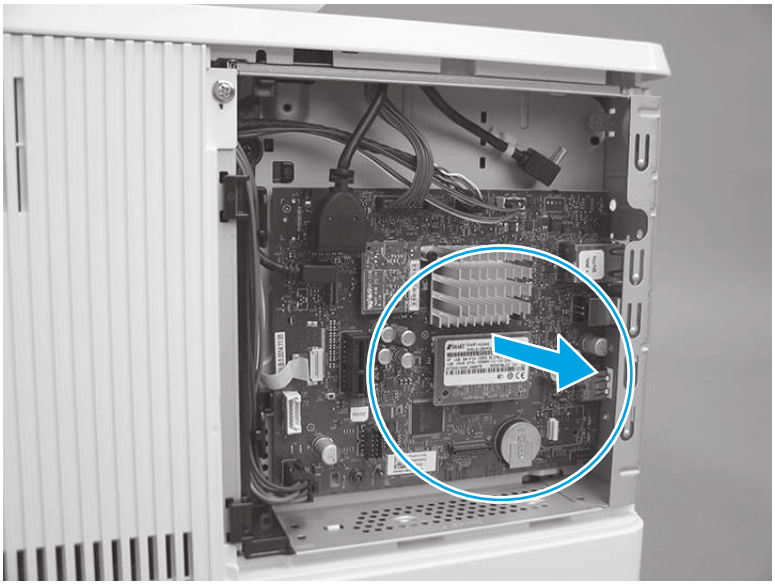
3. Remove the dual in-line memory module (DIMM).

CAUTION: ESD sensitive part.

NOTE: The M506/E50045/M507/E50145 printers use a Slim dual in-line memory module (DIMM).

a. **M506/E50045/M507/E50145 only**: Locate the DIMM component on the formatter, and then pull it straight off of the formatter to remove it.

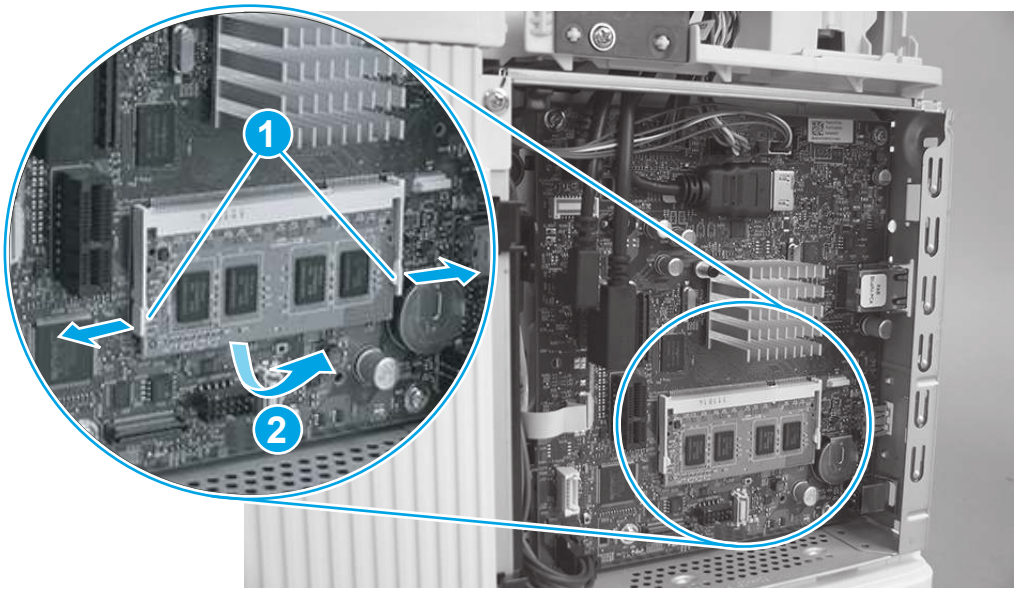
Figure 1-32 Remove the DIMM (M506/E50045/M507/E50145)



b. **M527/E52545/M528/E52645 only**: Do the following.

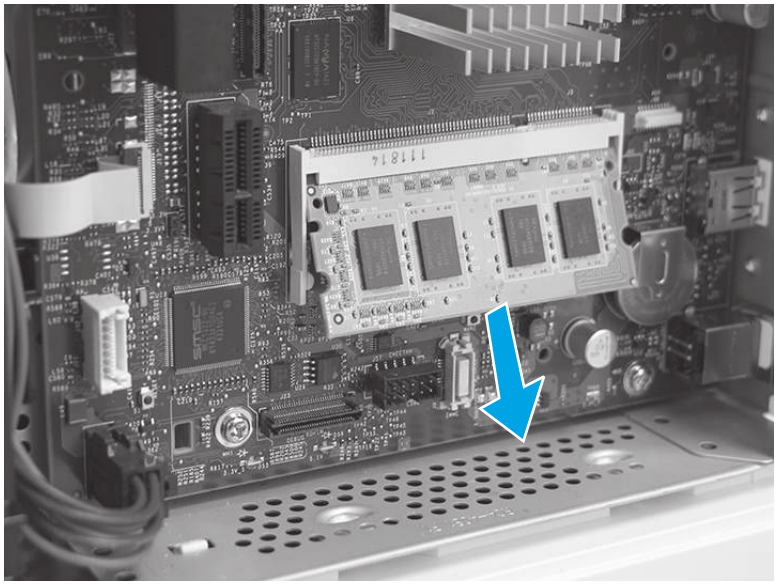
i. Locate the DIMM component on the formatter, release two locking arms (callout 1), and then let the bottom edge of the DIMM rotate away from the holder (callout 2).

Figure 1-33 Release the DIMM (M527/E52545/M528/E52645)



ii. Pull the DIMM down and away from the holder to remove it.

Figure 1-34 Remove the DIMM (M527/E52545/M528/E52645)



4. Unpack the replacement assembly.

   a. Dispose of the defective part.

   NOTE: HP recommends responsible disposal of the defective part.

   http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

   b. Unpack the replacement part from the packaging.

   CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

   If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

   IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

   c. To install an assembly, reverse the removal steps.

   NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

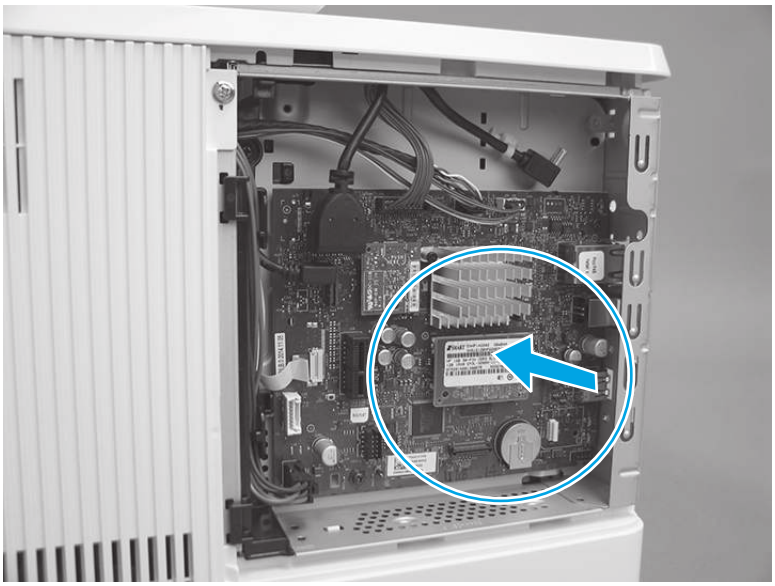
5. Install the dual in-line memory module (DIMM).

CAUTION: ESD sensitive part.

NOTE: The M506/E50045/M507/E50145 printers use a Slim dual in-line memory module (DIMM).

a. **M506/E50045/M507/E50145 only**: Push the DIMM straight on the connector to install it.

Figure 1-35 Install the DIMM (M506/E50045/M507/E50145)

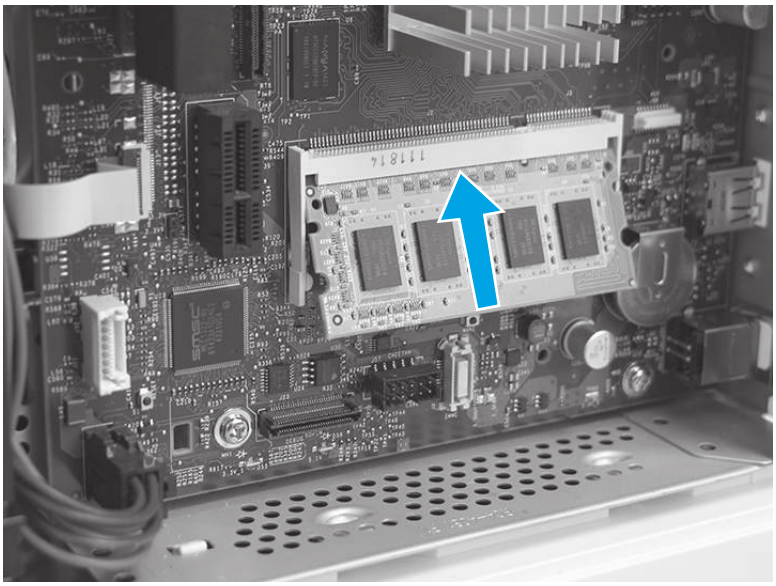


b. **M527/E52545/M528/E52645 only**: Do the following.

i. Insert the top edge of the DIMM in the holder.

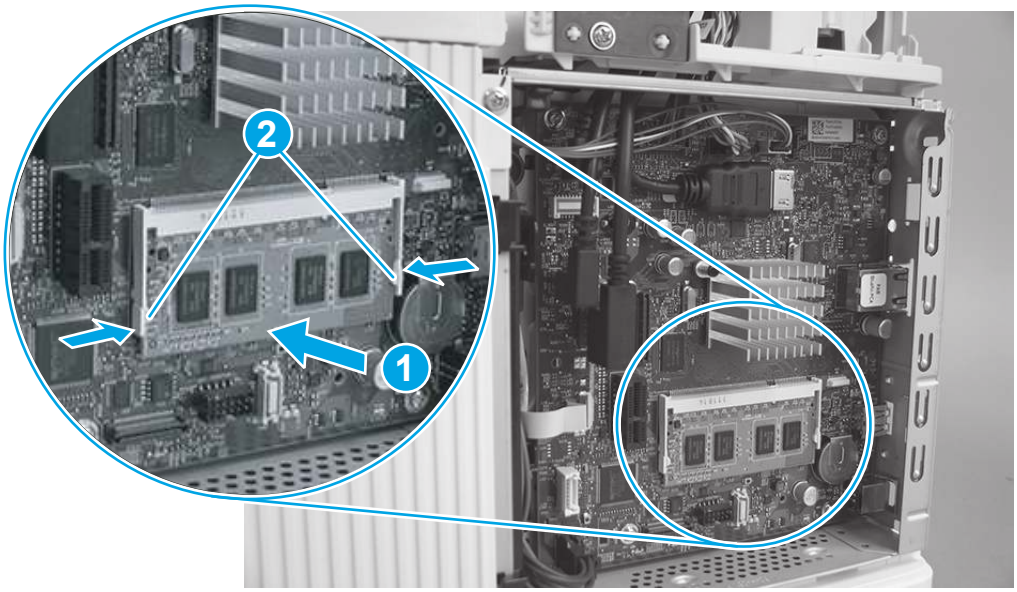
Reinstallation tip: The DIMM is keyed and can only be inserted in the holder one way.

Figure 1-36 Insert the DIMM (M527/E52545/M528/E52645)



ii. Rotate the bottom edge of the DIMM toward the holder (callout 1), and then make sure that the two locking arms snap into place (callout 2).

Figure 1-37 Install the DIMM (M527/E52545/M528/E52645)



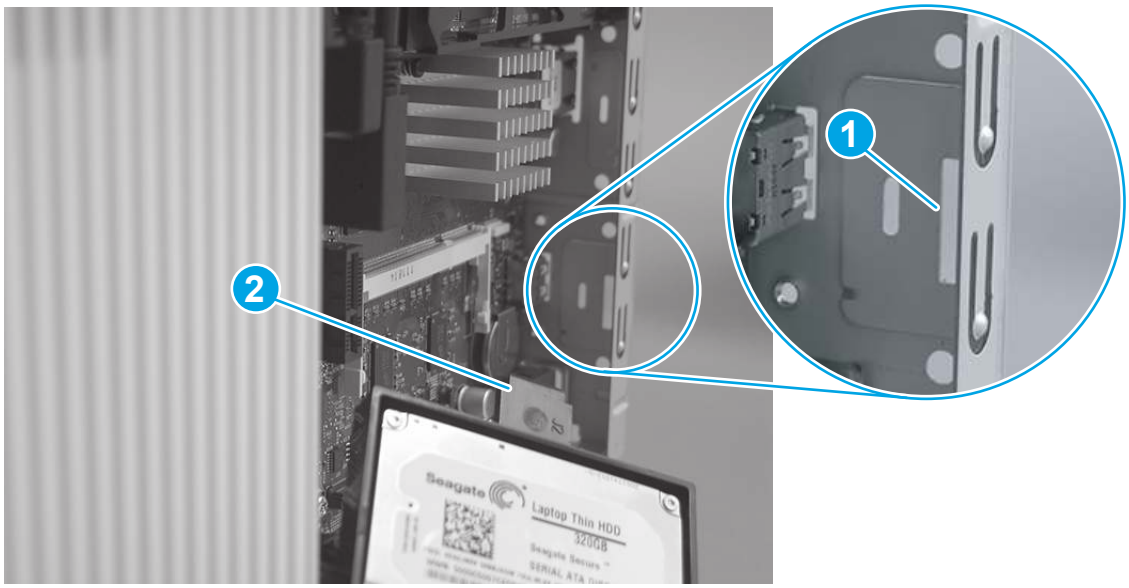
6. Install the HDD (HDD models).

CAUTION: ESD sensitive part.

a. Before proceeding, take note of the location of the slot (callout 1) in the sheet-metal where the HDD cradle mounting tab (callout 2) must be installed.

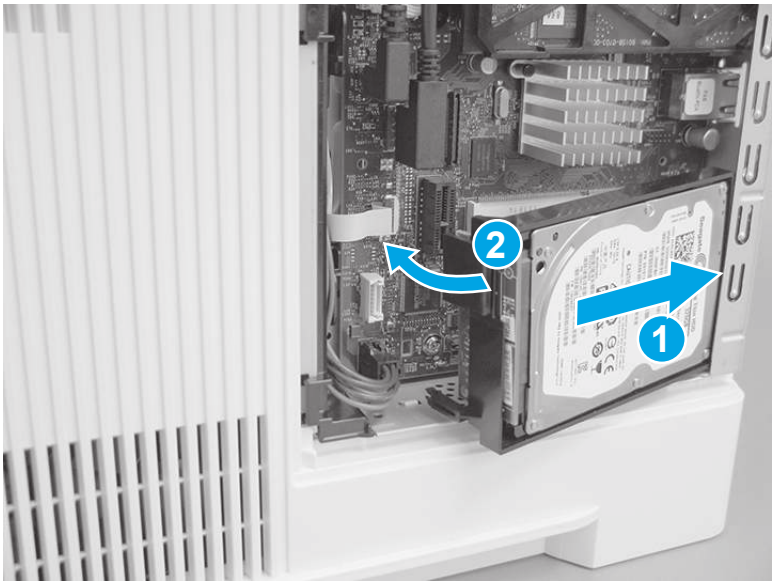
CAUTION: This portion of the sheet-metal is a knock-out plate (callout 1). Do not push on it with sufficient force to detach it when installing the HDD.

Figure 1-38 Locate the slot in the sheet-metal



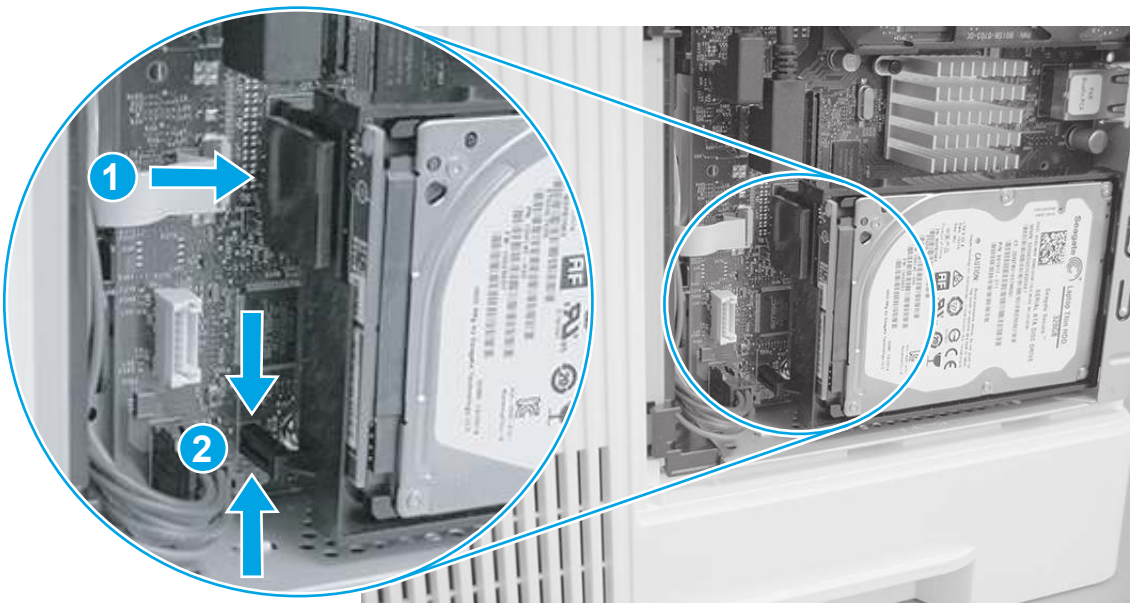
b. Insert the HDD cradle mounting tab in the slot in the sheet-metal (callout 1), and then rotate the connector end (callout 2) of the HDD toward the formatter.

Figure 1-39 Install the HDD



c. Make sure that the locking connector (callout 1) latches and that the standoff (callout 2) engages with the slot in the formatter (it might be necessary to pinch the retainer to engage it with the slot).

Figure 1-40 Install the HDD

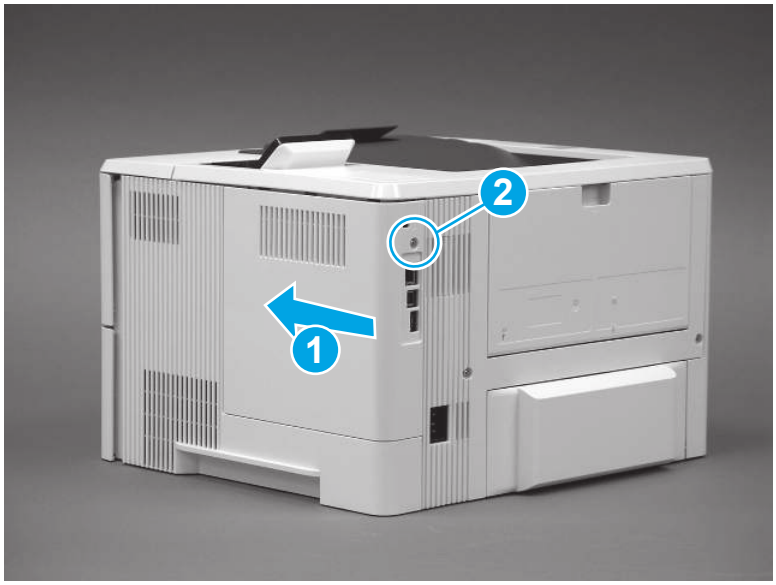


7. Install the formatter cover.

▲ Do one of the following:

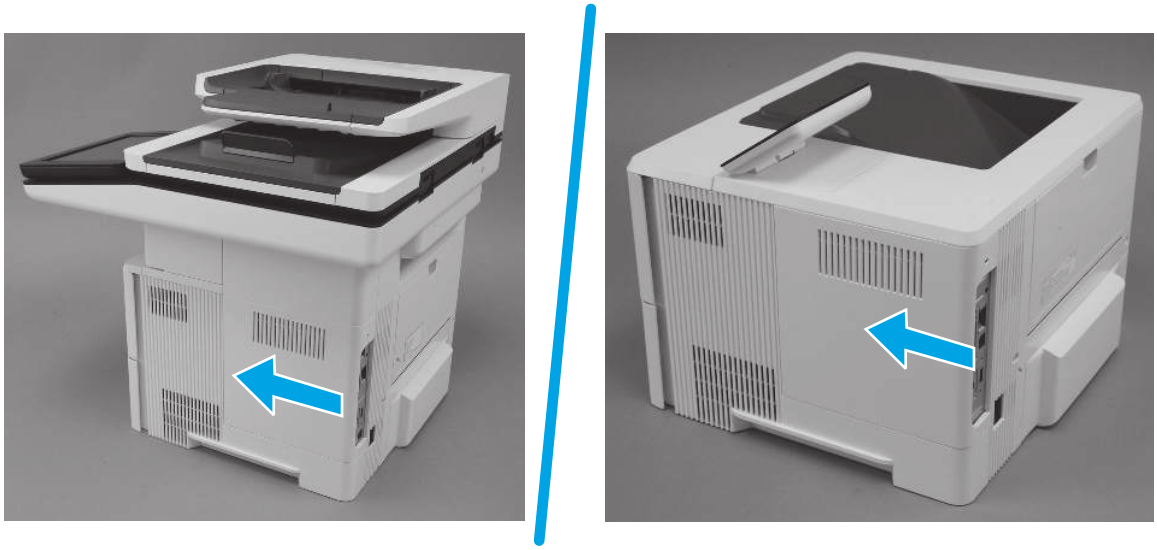
- M501: Slide it toward the front of the printer to install it (callout 1), and then install one screw (callout 2).

Figure 1-41 Install the formatter cover (M501)



- M506/E50045/M507/E50145/M527/E52545/M528/E52645: Slide it toward the front of the printer to install it.

Figure 1-42 Install the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)



Removal and replacement: Transfer roller

Learn how to remove and replace the transfer roller.

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the transfer roller.

Mean time to repair: 5 minutes

Service level: CSR A

Before performing service

Turn the printer power off

- Disconnect the power cable.

> ⚠ **WARNING!** To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-6 Part information

Part number	Part description
F2A68-67910	Transfer roller with instruction guide

Required tools

No special tools are required to remove or install this assembly.

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

Make sure that the printer initializes to a **Ready** state.

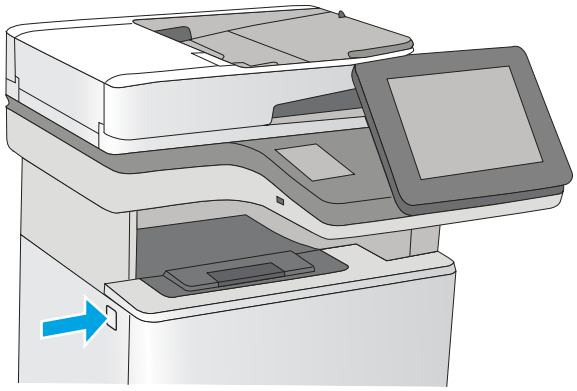
Print a configuration page to make sure that the printer is functioning correctly.

1. Remove the toner cartridge.

   An MFP printer is shown in this section. However, the procedure is correct for all printer models.

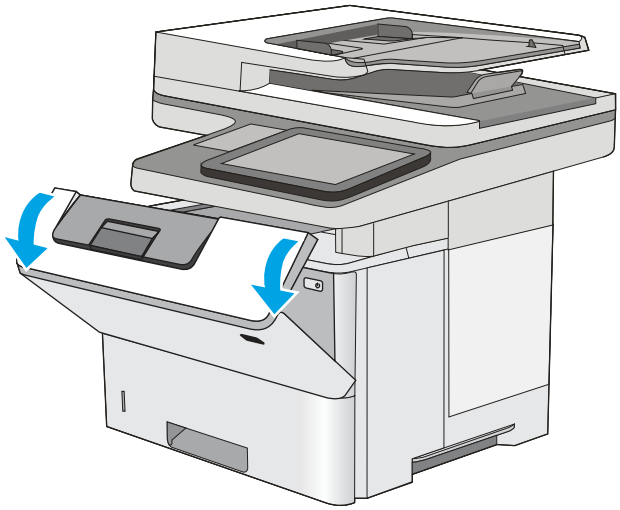
   a. Press the cartridge-door-release button.

   Figure 1-43 Press the cartridge-door-release button



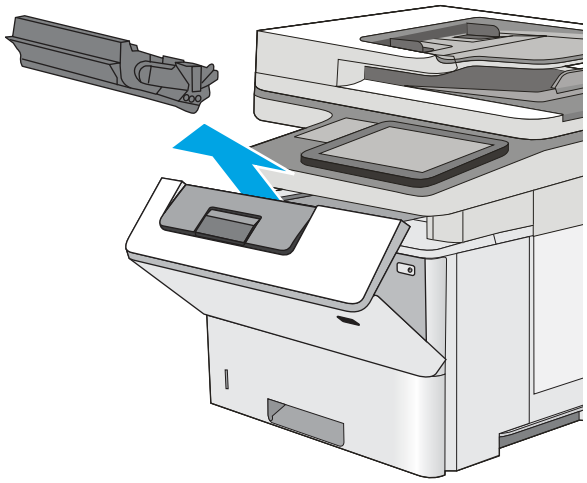
b. Open the toner-cartridge door.

Figure 1-44 Open the toner-cartridge door



c. Remove the toner cartridge from the printer.

Figure 1-45 Remove the toner cartridge

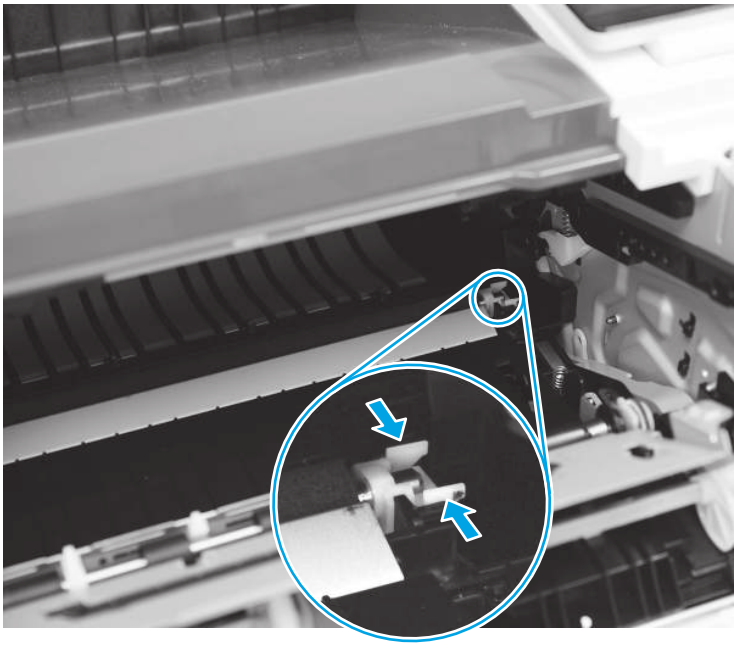


2. Remove the transfer roller.

a. Push in on the two white tabs on the right-side retainer clip to release them.

NOTE: The right end of the roller slightly springs up when the tabs are released.

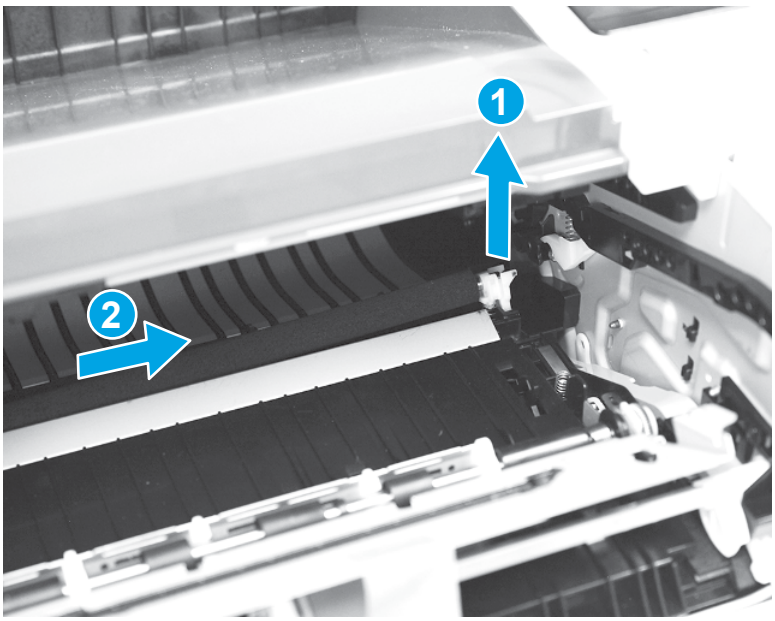
Figure 1-46 Release the retainer clip



b. Grasp the silver shaft end of the roller or the white retainer clip, raise the right-end of the roller up, and then slide the roller to the right to release the left-end of the roller shaft.

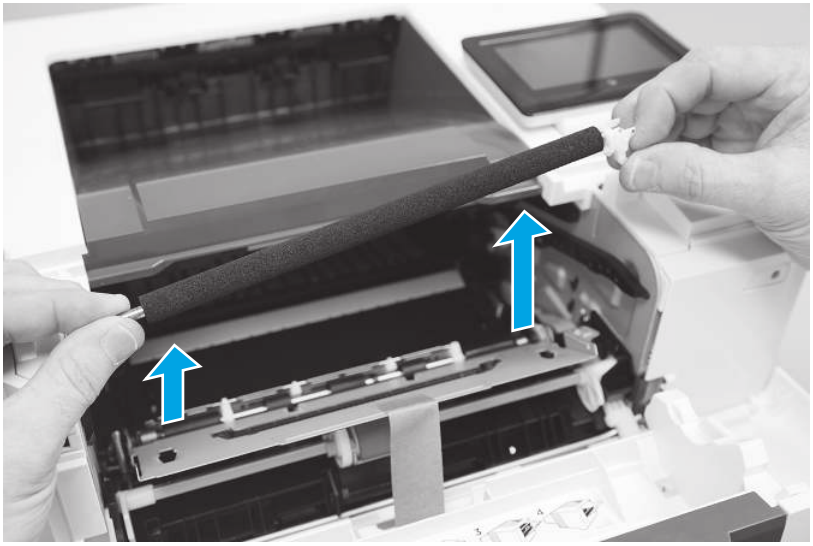
⚠ CAUTION: The retainer clip is not captive. Do not drop it into the product when handling the roller.

Figure 1-47 Release the roller



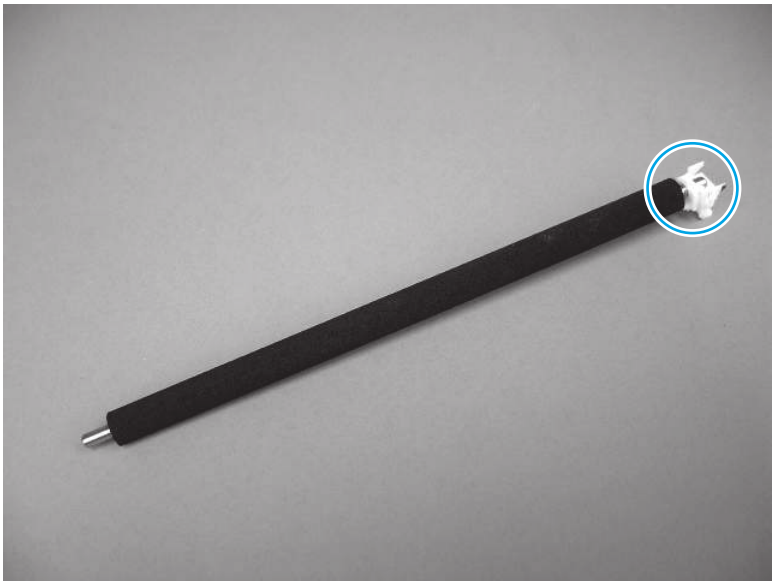
c. Remove the transfer roller from the printer.

Figure 1-48 Remove the roller



d. Remove the clip from the right end of the transfer roller. Set the clip aside, it will be installed on the replacement roller.

Figure 1-49 Remove the retainer clip



3. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

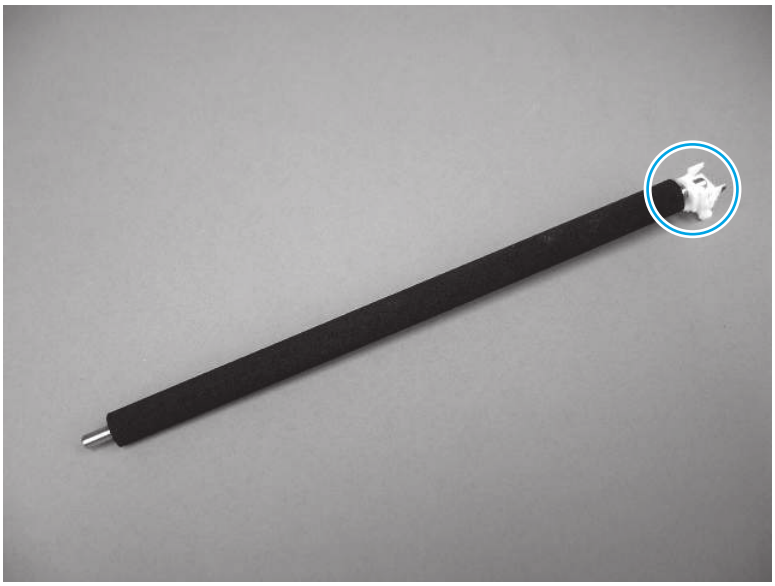
4. Install the transfer roller.

CAUTION: Do not touch the spongy portion of the replacement roller. Skin oils on the roller can cause paper handling problems. HP recommends washing your hands before handling the assembly.

a. From the discarded transfer roller, install the clip on either end of the replacement transfer roller.

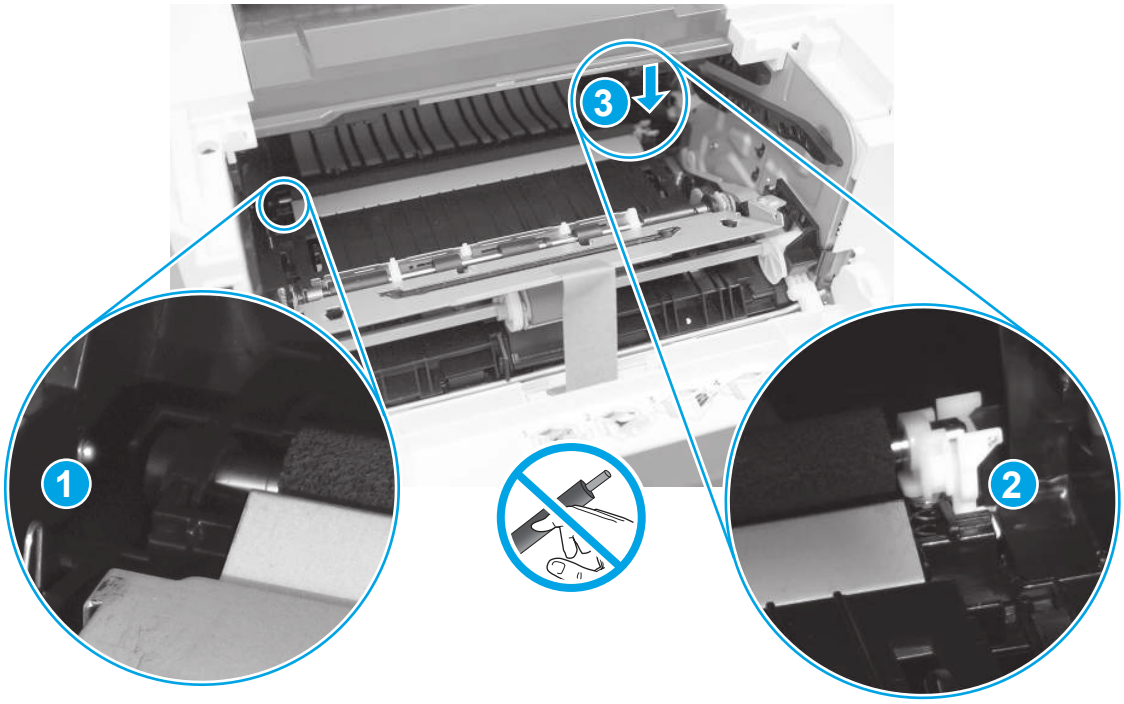
CAUTION: Avoid touching the black spongy part of the roller. Skin oils deposited on the rollers might cause print quality problems. HP recommends washing your hands before handling the roller.

Figure 1-50 Install the holder



b. Place the left (shaft) end of the roller in the retainer clip (callout 1), lower the right end (with the clip) into place making sure that the clip and spring are aligned (callout 2), and then push down (callout 3) on the clip until it snaps in place.

Figure 1-51 Install the roller and retainer clip

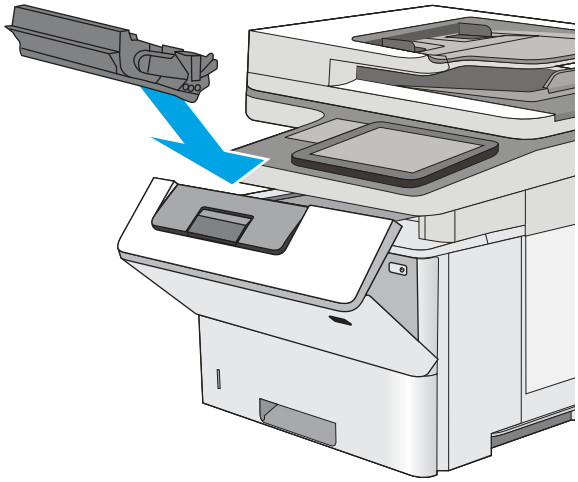


5. Install the toner cartridge.

An MFP printer is shown in this section. However, the procedure is correct for all printer models.

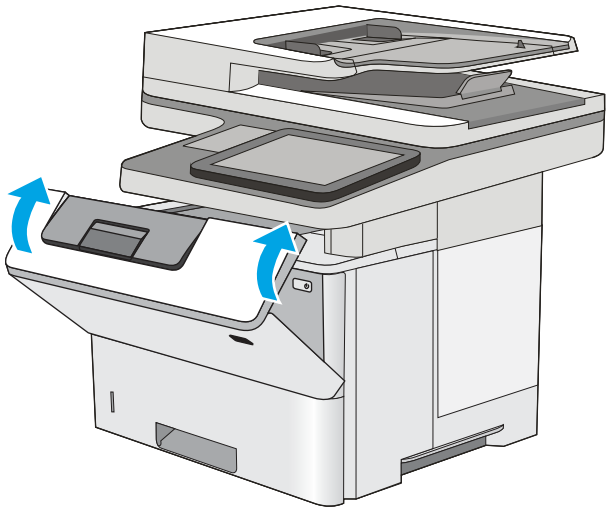
a. Align the toner cartridge with the tracks inside the printer, and install the toner cartridge until it is firmly seated.

Figure 1-52 Install the toner cartridge



b. Close the toner-cartridge door.

Figure 1-53 Close the toner-cartridge door



Removal and replacement: Control panel (MFP)

Learn how to remove and replace the control panel.

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the control panel.

Mean time to repair: 5 minutes

Service level: CSR A

Before performing service

Turn the printer power off

- Disconnect the power cable.

> ⚠ **WARNING!** To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-7 Part information

Part number	Part description
B5L47-67018	Control panel (M527/E52545/M528/E52645) with instruction guide

Required tools

- #2 Phillips screwdriver with a magnetic tip and a 152 mm (6 in) shaft length

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

Make sure that the printer initializes to a **Ready** state.

Print a configuration page to make sure that the printer is functioning correctly.

1. Remove the control panel.

   a. Open the document feeder.

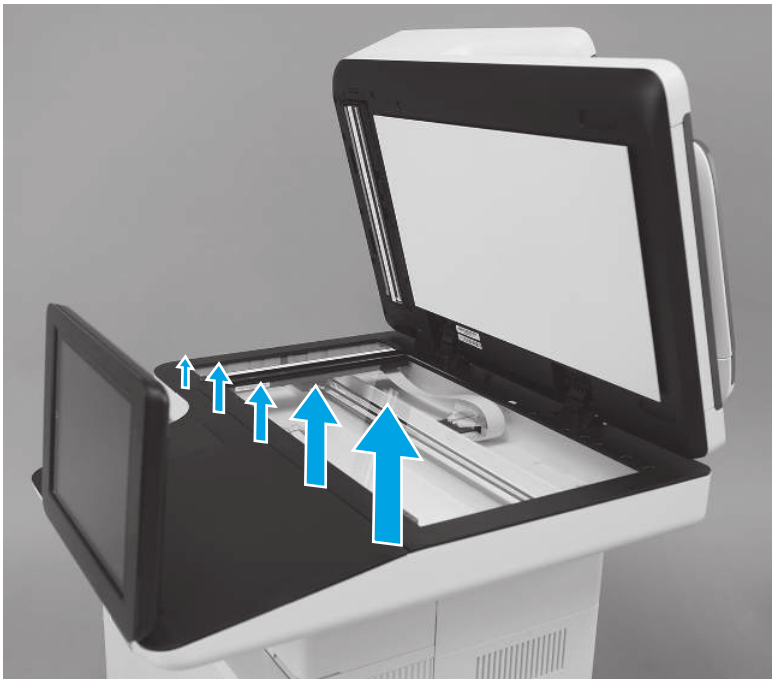
   NOTE: If the control panel is not fully tilted forward, tilt it forward now until it stops.

   Figure 1-54 Open the document feeder

   b. Beginning at the right side of the control-panel cover, carefully release five tabs along the top edge of the cover.

   NOTE: The thin black-plastic cover will separate from the white-plastic control-panel base.

Figure 1-55 Release five tabs

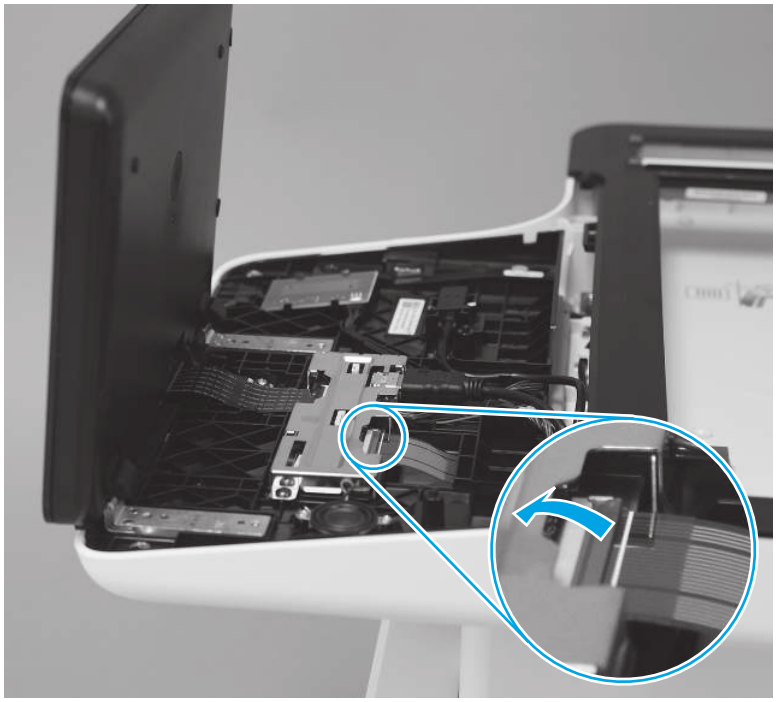


c. Continue to rotate the top edge of the cover away from the printer, and then remove the cover.

Figure 1-56 Remove the cover

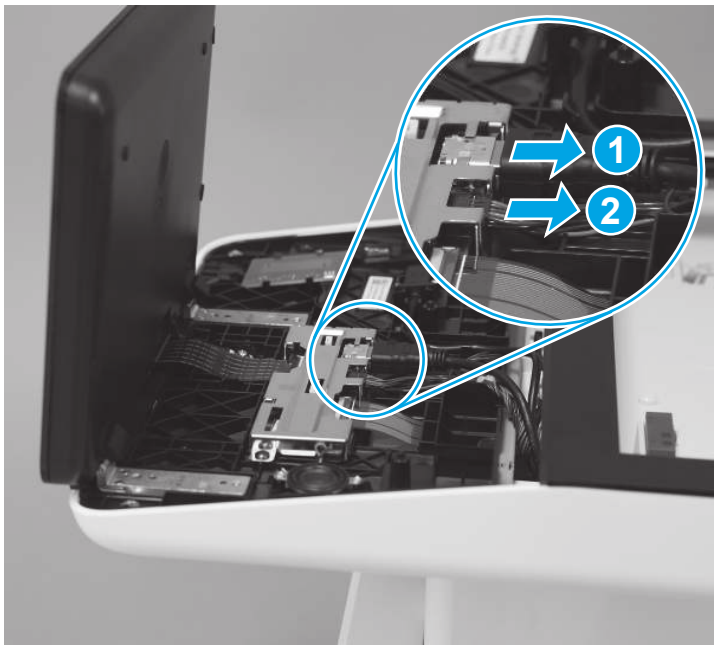
d. **M527/E52545/M528c/z, and E52645c/z only**: Open the connector latch to release the keyboard flat cable.

Figure 1-57 Disconnect the FFC (M527/E52545/M528c/z, and E52645c/z)



e. Disconnect one HDMI cable (callout 1) and one connector (callout 2).

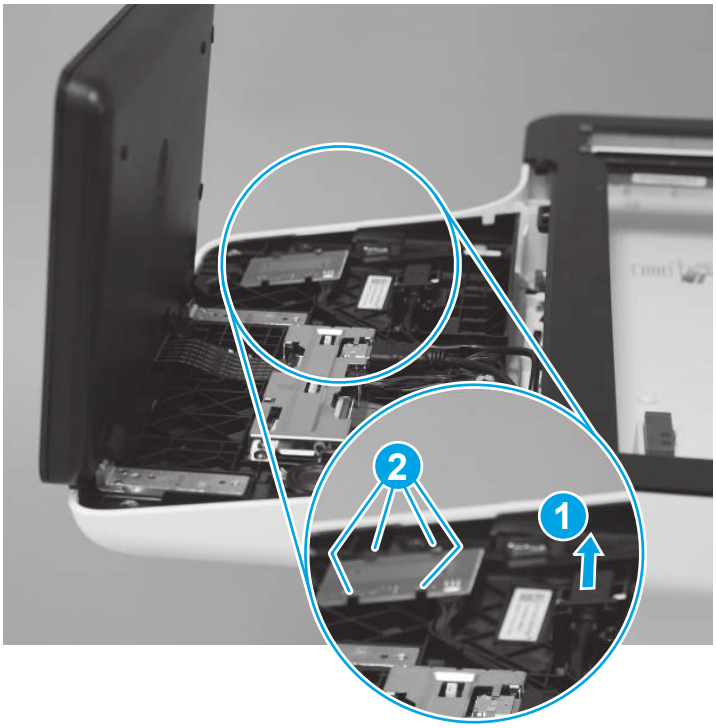
Figure 1-58 Disconnect connectors



f. Remove the USB cable (callout 1) from the holder.

NOTE: **M527z/E52545z only**: Release four tabs (callout 2), and then remove the near-field communication (NFC) printed circuit board.

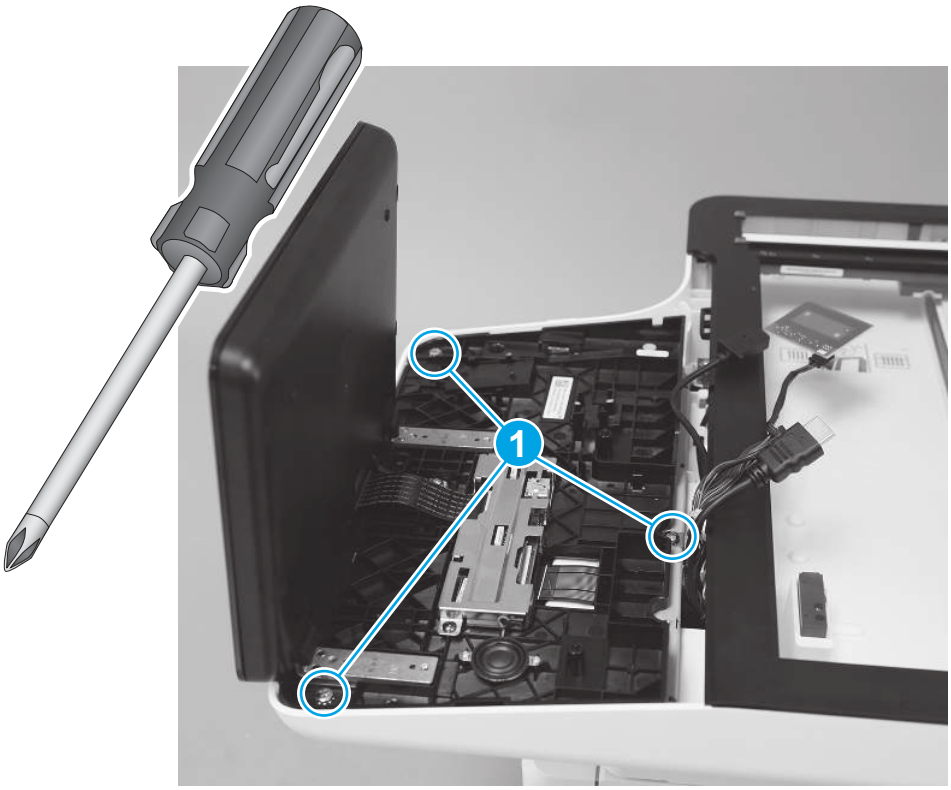
Figure 1-59 Remove USB cable and NFC PCA



g. Remove three screws (callout 1).

TIP: The screwdriver (supplied with the kit) has a reversible shaft. Simply pull the shaft out of the handle, and then reinstall it with the desired end facing out.

Figure 1-60 Remove three screws



h. Lift the front of the control panel off of the printer (callout 1), and then slide it toward the front of the printer (callout 2) to remove it.

Figure 1-61 Remove the control panel

2. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

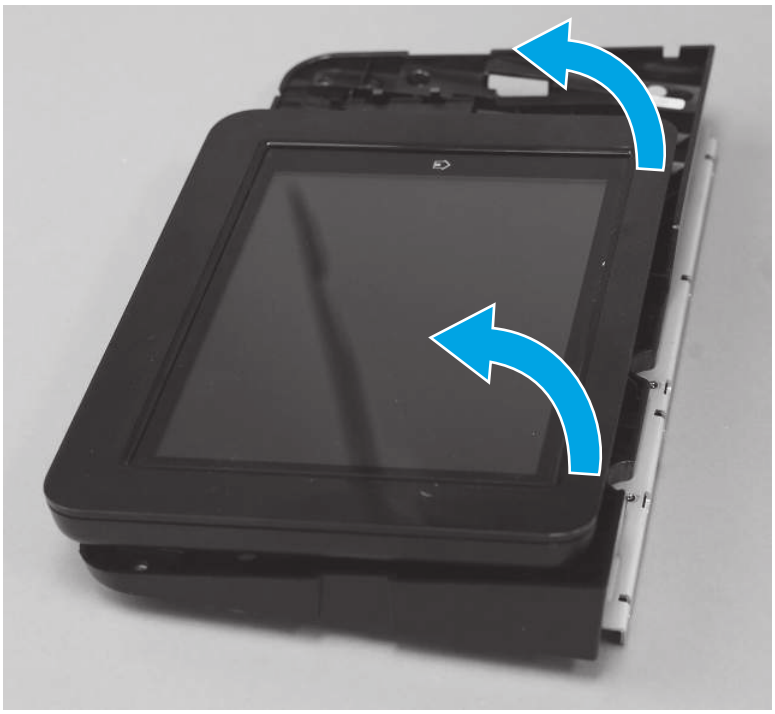
c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

3. Install the control panel.

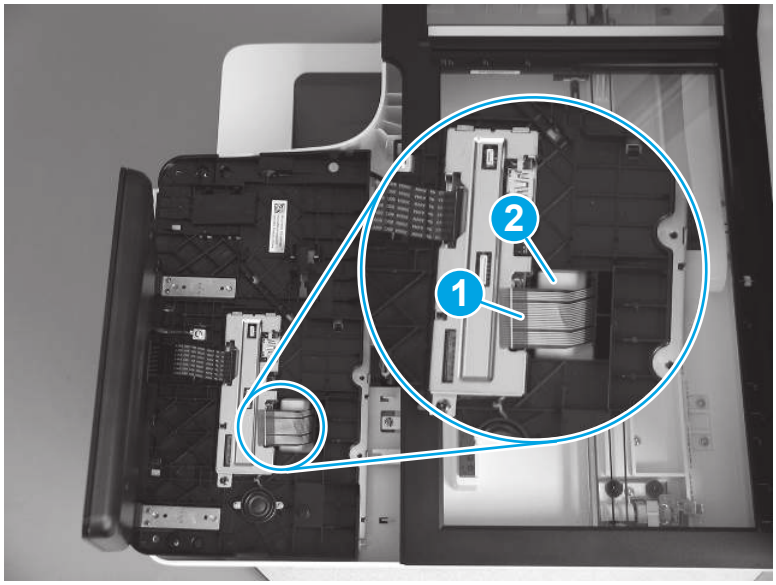
a. Tilt the replacement control panel away from the base plate.

Figure 1-62 Open the control panel



b. **M527/E52545/M528c/z, and E52645c/z only**: Make sure to feed the keyboard flat cable (callout 1) passes through the opening (callout 2) in the control-panel base when installing the control panel.

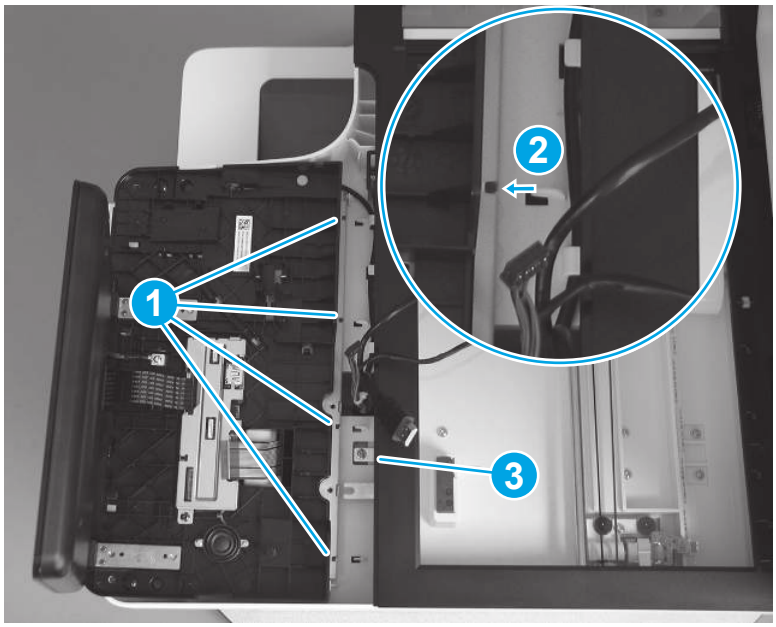
Figure 1-63 Check the keyboard flat cable (M527/E52545/M528c/z, and E52645c/z)



c. Locate the four hooks on the printer and matching slots in the control-panel base (callout 1). The hooks fit into the slots (callout 2) when the assembly is installed.

NOTE: Make sure that the grounding clip (callout 3) is on top of the assembly base when it is installed.

Figure 1-64 Locate the hooks and slots



d. Position the rear edge of the control panel in the printer (callout 1), and then lower the front edge down (callout 2) to install it.

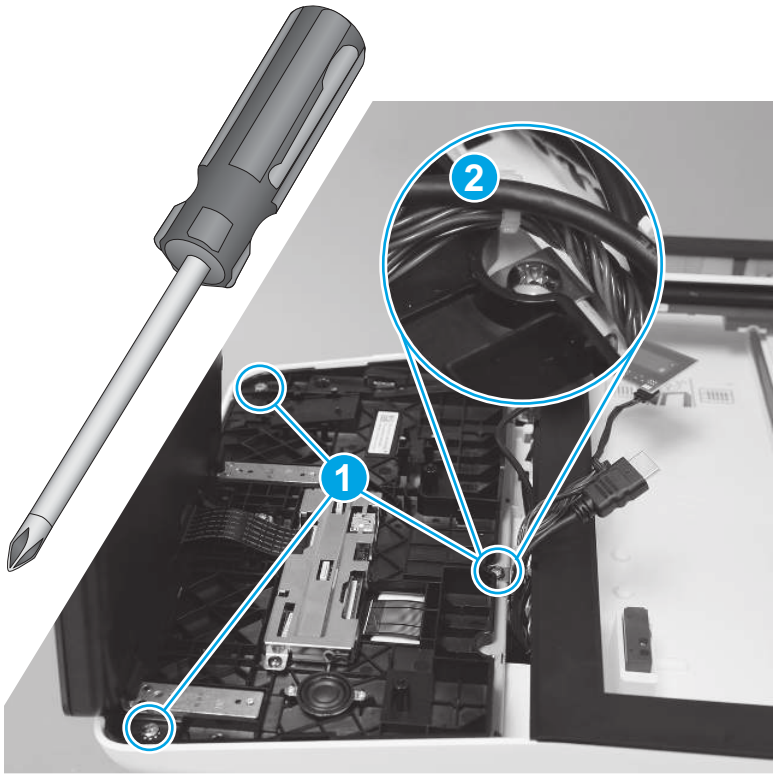
NOTE: If the control panel is difficult to install, make sure that the hooks, slots, and grounding clip are correctly engaged. See previous steps.

Figure 1-65 Install the control-panel

e. Install three screws (callout 1), make sure that the grounding clip is correctly installed (callout 2).

TIP: The screwdriver (supplied with the kit) has a reversible shaft. Simply pull the shaft out of the handle, and then reinstall it with the desired end facing out.

Figure 1-66 Install three screws



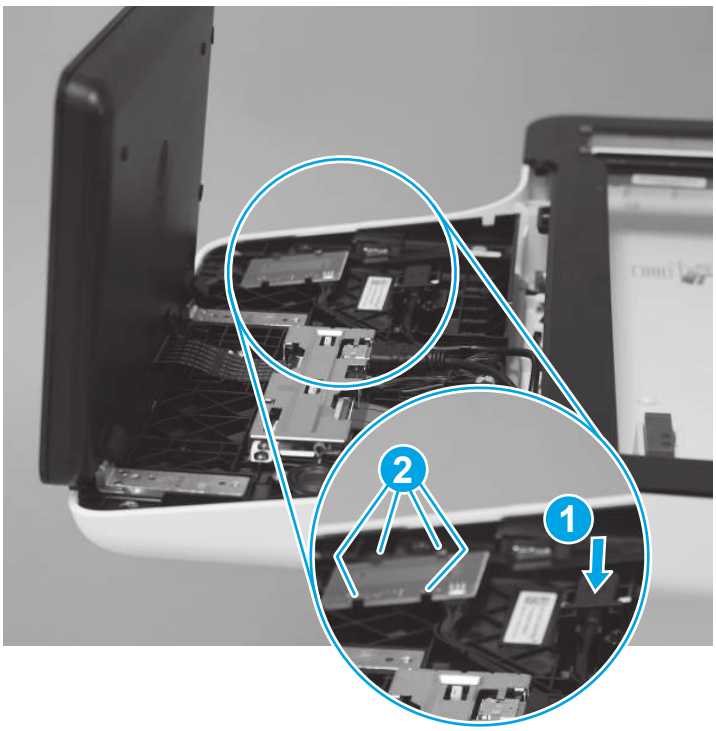
f. Connect one HDMI cable (callout 1) and one connector (callout 2).

Figure 1-67 Connect the connectors

g. Install the USB cable (callout 1) in the holder.

NOTE: **M527z/E52545z only**: Install the near-field communication (NFC) printed circuit board under the four tabs (callout 2).

Figure 1-68 Install the USB cable and NFC PCA

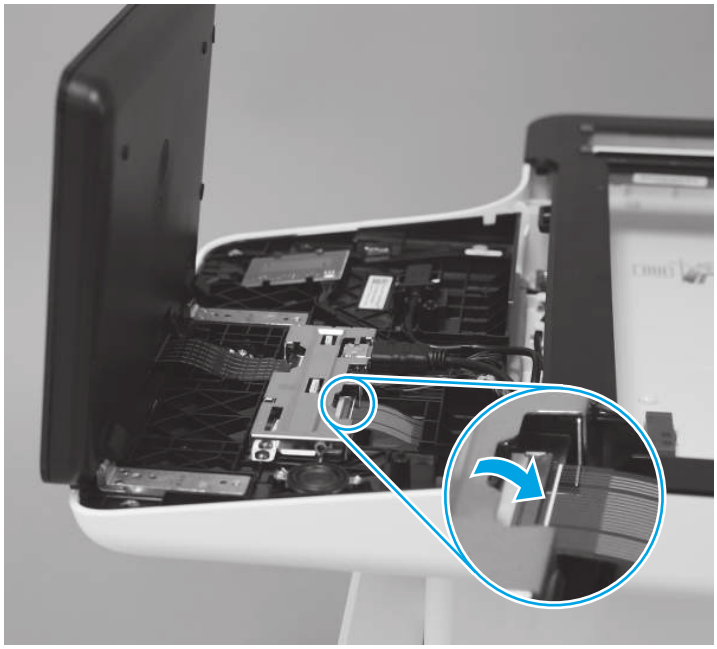


h. **M527/E52545/M528c/z, and E52645c/z only**: Position the keyboard flat cable in the connector, and then close the connector latch.

IMPORTANT: Slightly tug on the cable to make sure that it is fully captured in the connector.

NOTE: When the connector latch is closed, and the cable is correctly installed, the white line on the cable is parallel to the connector latch.

Figure 1-69 Connect the flat cable (M527/E52545/M528c/z, and E52645c/z)

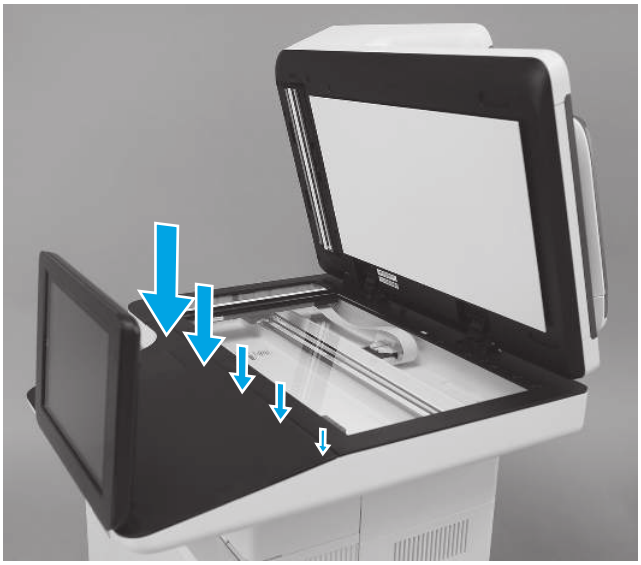


i. Position the control-panel cover on the printer.

Figure 1-70 Position the control-panel cover on the printer

j. Beginning at the left side of the control-panel cover, carefully engage five tabs along the top edge of the cover.

Figure 1-71 Engage five tabs

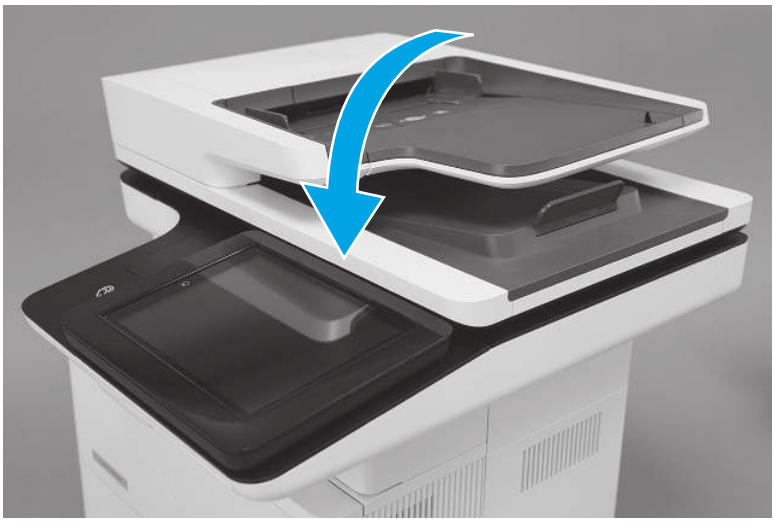


k. Close the document feeder.

NOTE: Adjust the control panel to the desired angle.

Reinstallation tip: If the keyboard is unresponsive after turning the printer on, check the flat cable installed in a previous step. Reinstall the cable if necessary.

Figure 1-72 Close the document feeder



Removal and replacement: Control panel (M506x/E50045x/M507x/E50145x)

Learn how to remove and replace the control panel.

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the control panel.

Mean time to repair: 5 minutes

Service level: CSR A

Before performing service

Turn the printer power off

- Disconnect the power cable.

> ⚠ **WARNING!** To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-8 Part information

Part number	Part description
G1W41-67907	Control panel (M506x//M506xm/E50045dw/E50045x) with instruction guide
K0Q15-67901	Control panel (M507x/E50145x) with instruction guide

Required tools

> **NOTE:** A reversible-shaft screwdriver is supplied with this kit.

- Small flat-blade screwdriver
- #2 Phillips screwdriver with a magnetic tip and a 152 mm (6 in) shaft length

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

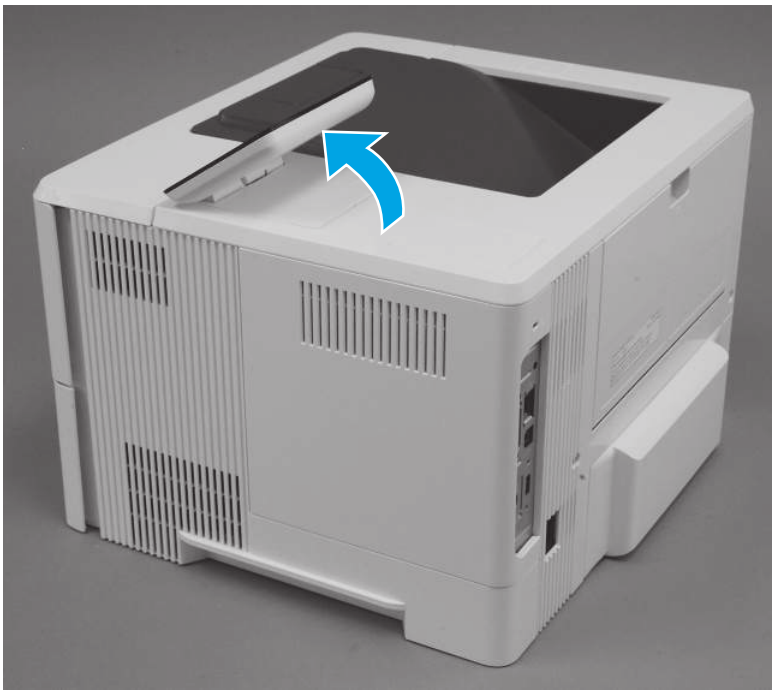
Make sure that the printer initializes to a **Ready** state.

Print a configuration page to make sure that the printer is functioning correctly.

1. Remove the control panel (M506x/E50045x/M507x/E50145x).

a. Tilt the control panel to the fully raised position.

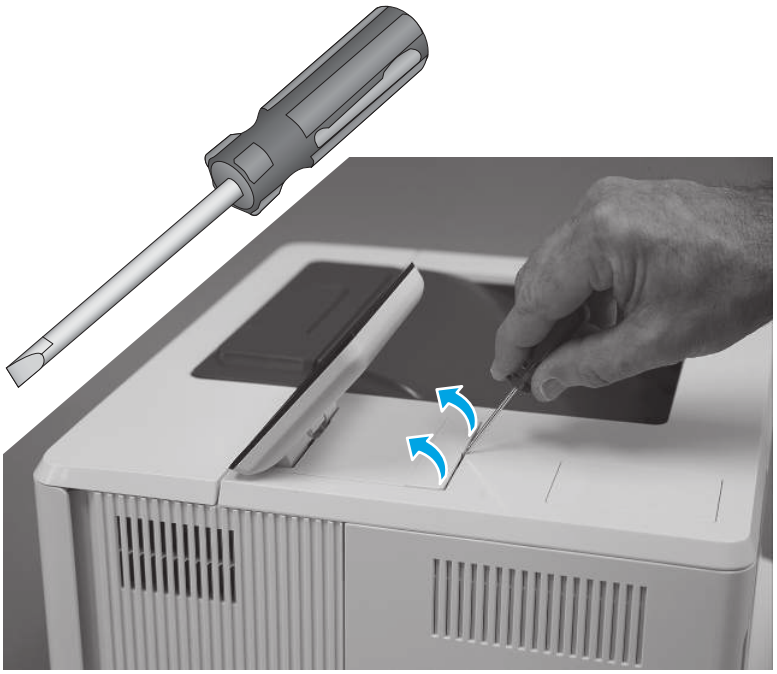
Figure 1-73 Tilt the control panel up



b. Use the small flat-blade screwdriver supplied in the kit to release the control-panel screws cover, and then remove the cover.

TIP: The screwdriver has a reversible shaft. Simply pull the shaft out of the handle, and then reinstall it with the desired end facing out.

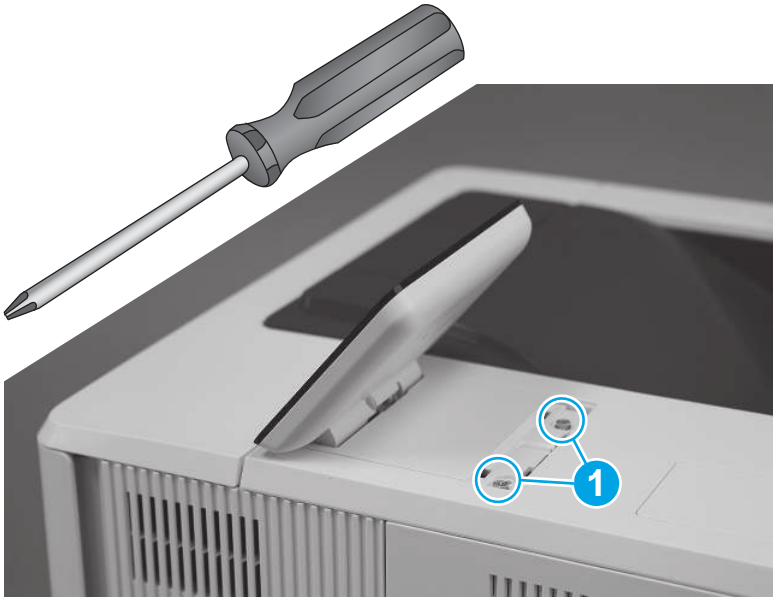
Figure 1-74 Remove the cover



c. Use the small Phillips screwdriver supplied in the kit to remove two screws (callout 1).

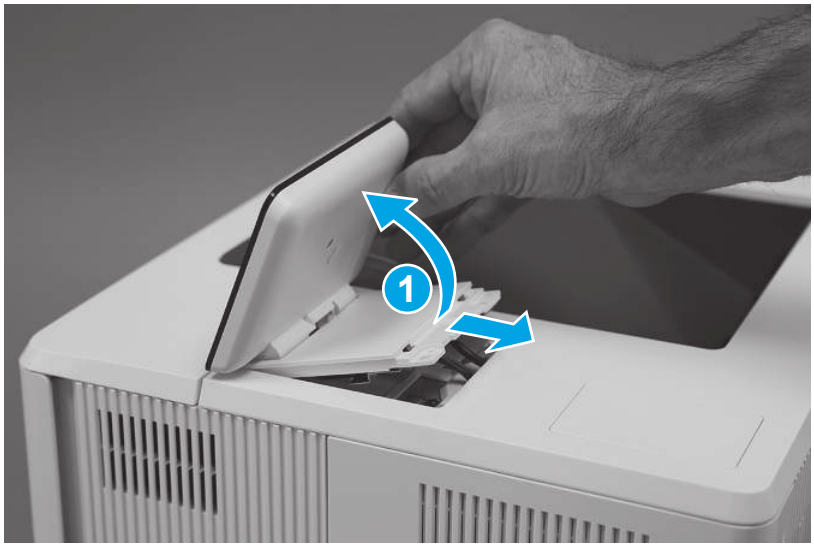
IMPORTANT: Store the screws in a secure place where they cannot fall down into the printer.

Figure 1-75 Remove two screws



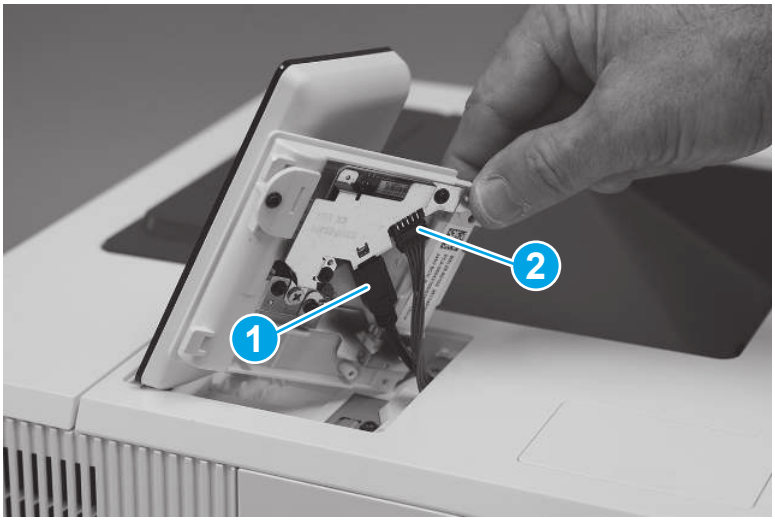
d. Turn the control panel over (callout 1), to gain access to the bottom side.

Figure 1-76 Turn the control panel over



e. **M506/E50045 only**: Disconnect one HDMI cable (callout 1), one connector (callout 2), and then remove the control panel.

Figure 1-77 Remove the control panel (M506/E50045)



f. **M507/E50154 only**: If the formatter cover has not been removed, remove it now. Disconnect one flat-flexible cable (FFC).

⚠ CAUTION: ESD sensitive part.

NOTE: This connector is a zero-insertion force (ZIF) connector. Open the locking clip. The clip is easily dislodged and lost.

Figure 1-78 Disconnect one FFC (M507/E50145)

g. **M507/E50145 only**: Pass the FFC through the opening in the cover, and then remove the control panel.

⚠ CAUTION: ESD sensitive part.

Figure 1-79 Remove the control panel (M507/E50145)

2. Unpack the replacement assembly.

   a. Dispose of the defective part.

   NOTE: HP recommends responsible disposal of the defective part.

   http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

   b. Unpack the replacement part from the packaging.

   CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

   If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

   IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

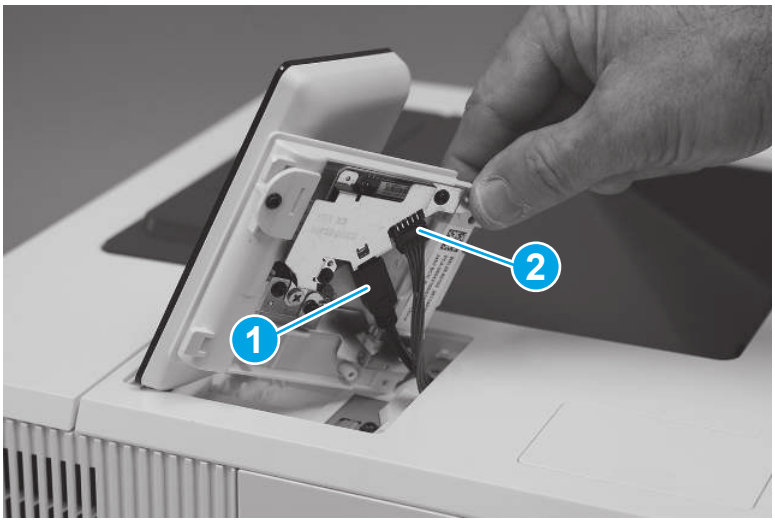
   c. To install an assembly, reverse the removal steps.

   NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

3. Install the control panel (M506x/E50045x/M507x/E50145x).

a. **M506/E50045 only**: Connect one HDMI cable (callout 1) and one connector (callout 2).

Figure 1-80 Connect the cables (M506/E50045)



b. **M507/E50145 only**: Pass the FFC through the opening in the cover.

CAUTION: ESD sensitive part.

Figure 1-81 Install the FFC (M507/E50145)

c. **M507/E50145 only**: Connect one FFC.

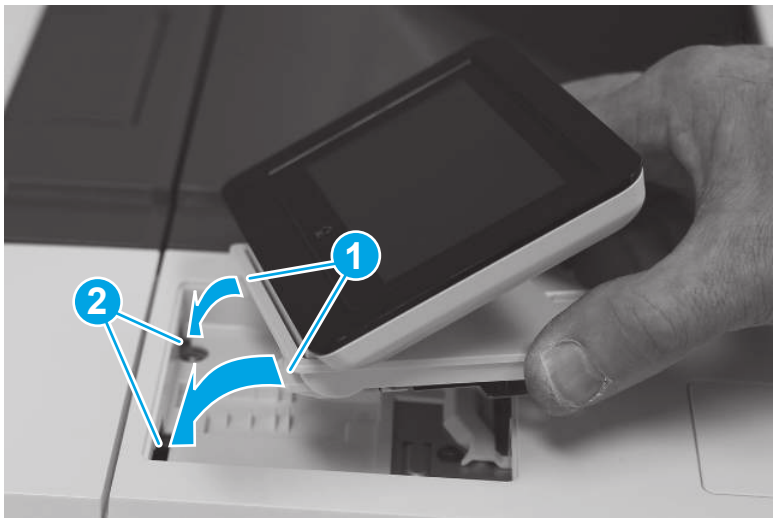
CAUTION: ESD sensitive part.

NOTE: Reinstall the formatter cover.

Figure 1-82 Connect one FFC (M507/E50145)

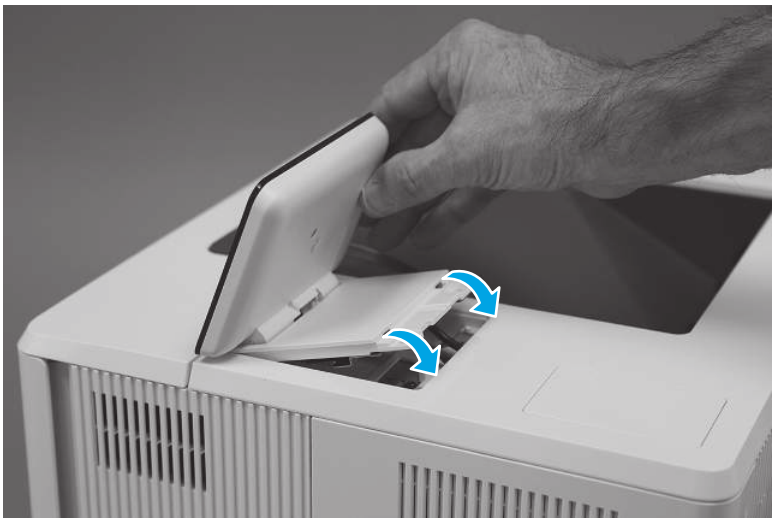
d. Install the tabs (callout 1) on the front of the control panel in the slots (callout 2) on the printer top cover.

Figure 1-83 Install the control panel



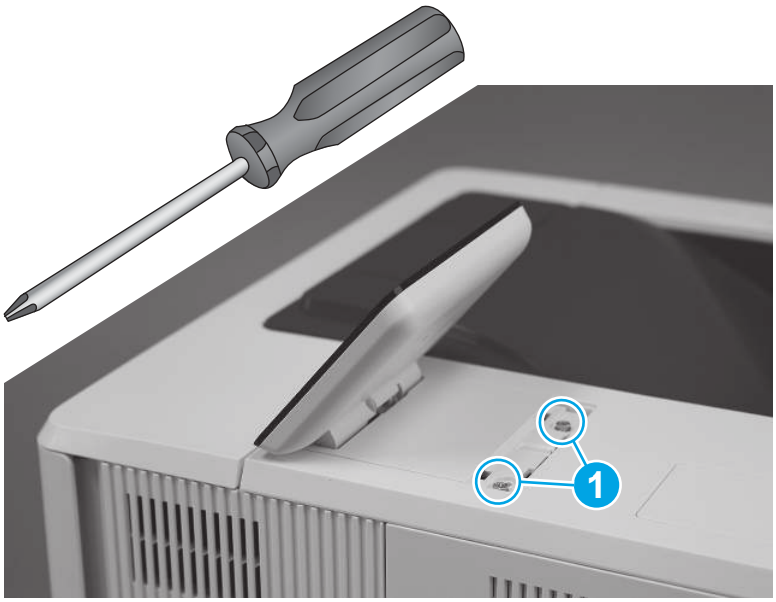
e. Rotate the control-panel base down onto the printer.

Figure 1-84 Rotate the control-panel base down



f. Use the small Phillips screwdriver supplied in the kit to install two screws (callout 1).

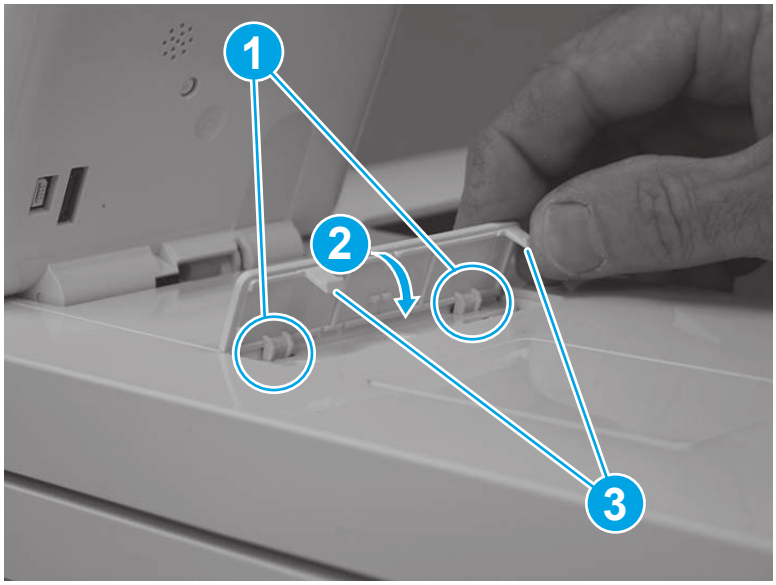
Figure 1-85 Install two screws



g. Position the screw cover mounting feet into the slots in the top cover (callout 1), and then rotate the cover down (callout 2) to install it.

NOTE: Press down on the cover firmly to make sure that the tabs (callout 3) snap into place.

Figure 1-86 Install the cover



Removal and replacement: White backing (MFP)

Learn how to remove and replace the white backing.

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the white backing.

Mean time to repair: 5 minutes

Service level: CSR A

Before performing service

Turn the printer power off

- Disconnect the power cable.

⚠ **WARNING!** To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-9 Part information

Part number	Part description
5851-6570	White backing kit (with instruction guide)[1]

[1] This kit includes the white backing retention clips.

Required tools

No special tools are required to remove or install this assembly.

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

No post service test is available for this assembly.

1. Remove the white backing (M527/E52545/M528/E52645).

   a. Open the document feeder.

   Figure 1-87 Open the document feeder

   b. Remove the white backing and retention clips (attached to the document feeder behind the white backing).

   TIP: Use the edge of a coin to loosen the clips.

   Figure 1-88 Remove the white backing

2. Unpack the replacement assembly.

   a. Dispose of the defective part.

   NOTE: HP recommends responsible disposal of the defective part.

   http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

   b. Unpack the replacement part from the packaging.

   CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

   If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

   IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

   c. To install an assembly, reverse the removal steps.

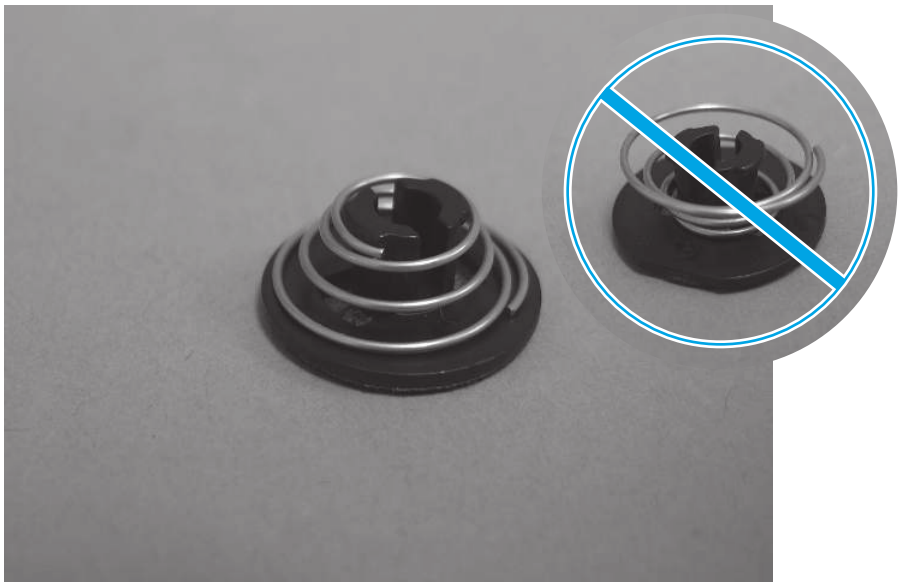
   NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

3. Install the white backing (M527/E52545/M528/E52645).

   a. Verify that the springs are positioned correctly on the replacement retention clips.

   NOTE: Replacement retention clips are supplied in the kit.

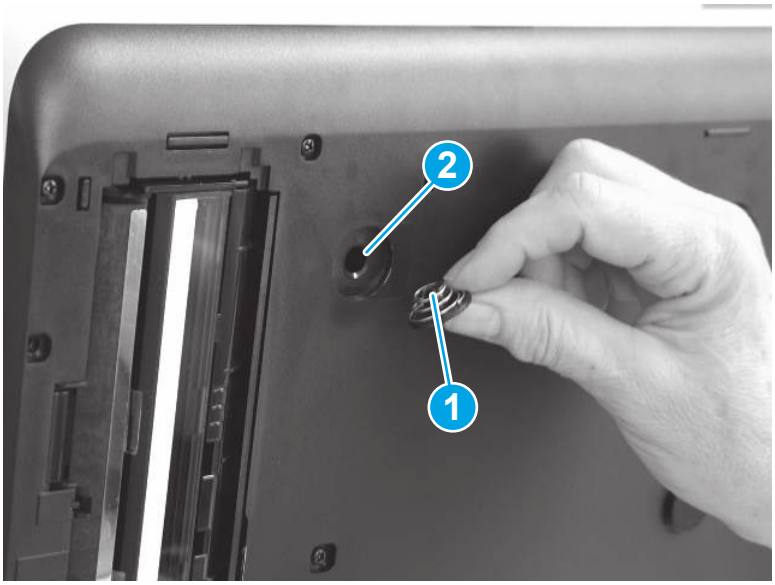
   Figure 1-89 Check the retention clip spring



b. Install the replacement clips (callout 1) in the openings (callout 2) in the document feeder.

NOTE: Make sure that the springs are correctly installed. See the previous step.

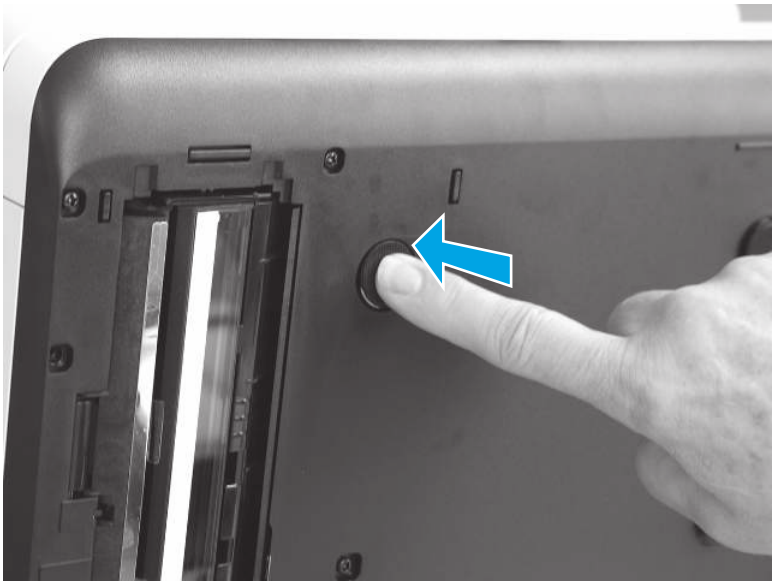
Figure 1-90 Install the retention clip



c. Press the clip to make sure it is securely installed.

NOTE: An audible click indicates when the clip is correctly installed.

Figure 1-91 Press the retention clip



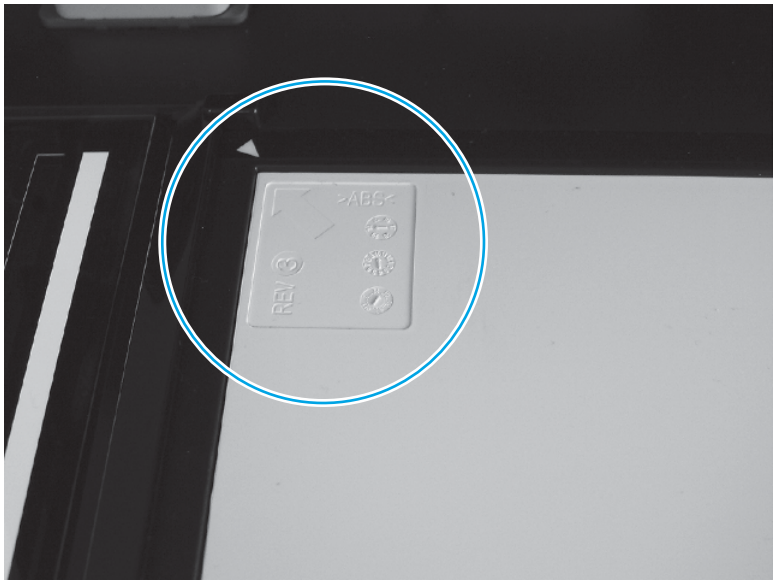
d. Remove the protective film off of each adhesive square.

Figure 1-92 White backing adhesive squares

e. Position the replacement white backing on the image scanner glass.

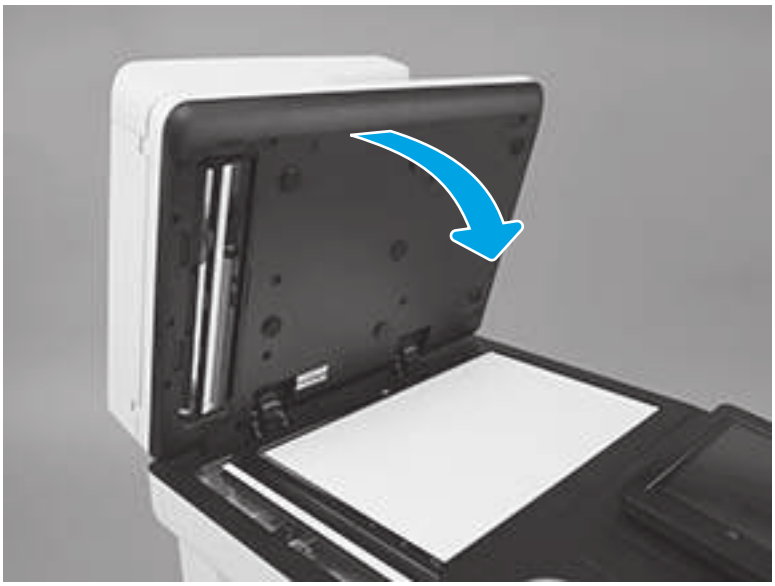
NOTE: Make sure that the corner with the embossed arrow on the white backing is positioned against the corner with the arrow on the scanner.

Figure 1-93 Install the white backing



f. Close the document feeder.

Figure 1-94 Close the document feeder

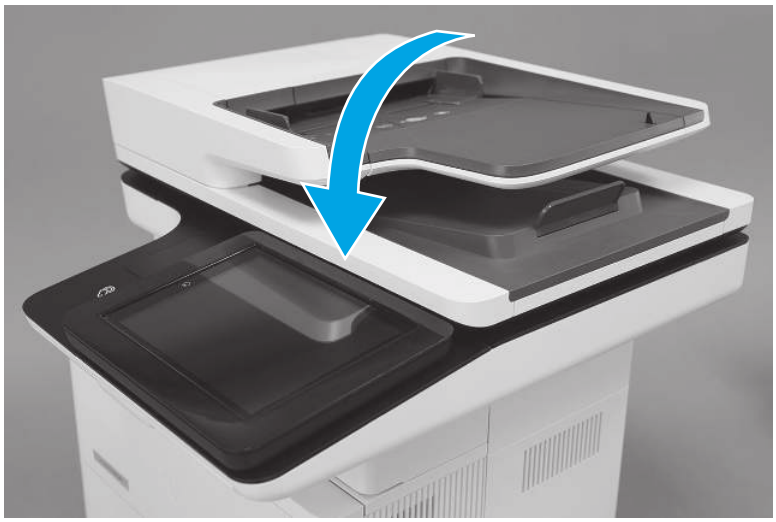


g. Open the document feeder and press on the white backing at the location of each retention clip to ensure that the backing is securely attached to the adhesive on the clips.

Figure 1-95 Check the white backing

h. Close the document feeder.

Figure 1-96 Close the document feeder



Removal and replacement: Keyboard assembly (M527c/z, E52545c/z, M528c/z, and E52645c/z)

This document provides the procedures to remove and replace the keyboard assembly.

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the keyboard assembly.

Mean time to repair: 5 minutes

Service level: CSR A

Before performing service

Turn the printer power off

- Disconnect the power cable.

⚠ **WARNING!** To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-10 Part information

Part number	Part description
B5L47-67019	Keyboard assembly (US) kit (527c/z, E52545c/z, M528c/z, and E52645c/z) with instruction guide
B5L47-67020	Keyboard assembly (UK) kit (527c/z, E52545c/z, M528c/z, and E52645c/z) with instruction guide

Required tools

No special tools are required to remove or install this assembly.

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

Use the physical keyboard (in the same way the virtual touchscreen keyboard is used) to make sure that it is correctly functioning.

1. Remove the keyboard.

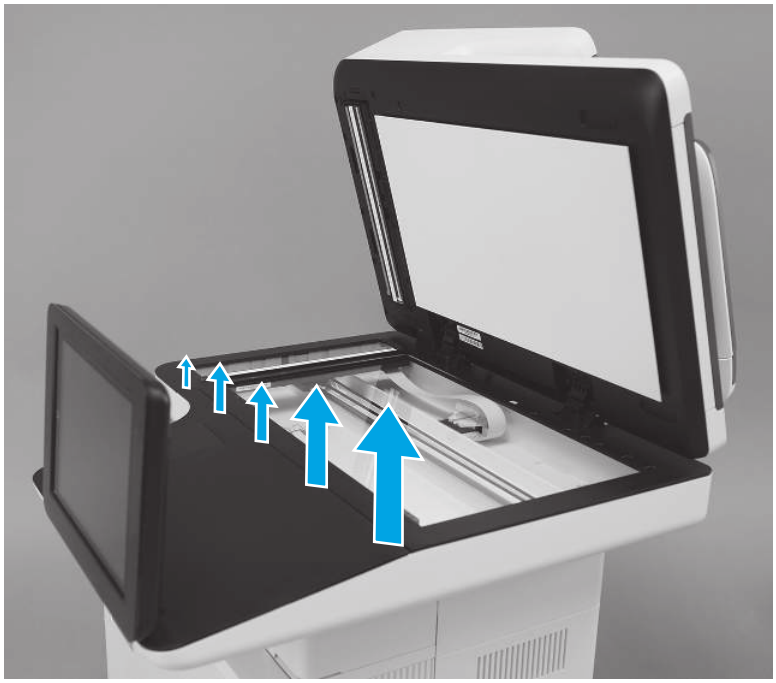
   a. Tilt up the control panel (callout 1) and open the document feeder (callout 2).

   Figure 1-97 Tilt up the control panel and open the document feeder

   b. Beginning at the right side of the control-panel cover, carefully release five tabs along the top edge of the cover.

   NOTE: The thin black-plastic cover will separate from the white plastic control-panel base.

Figure 1-98 Remove the control-panel cover

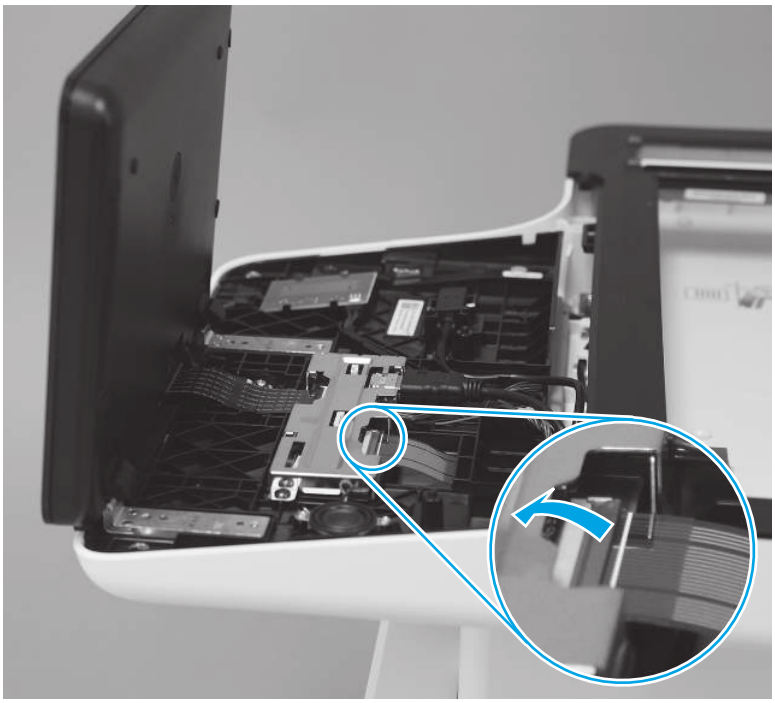


c. Continue to rotate the top edge of the cover away from the printer, and then remove the cover.

Figure 1-99 Remove the cover

d. Open the connector latch to release the keyboard flat cable.

Figure 1-100 Release the keyboard flat cable

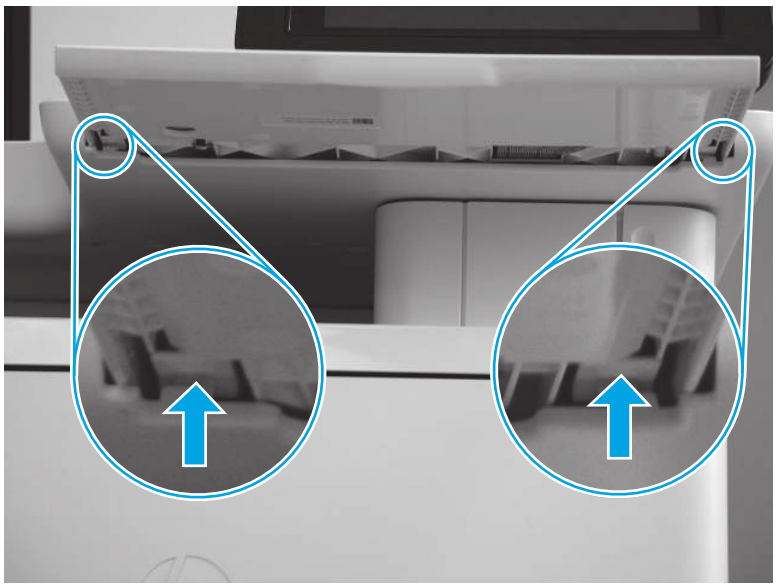


e. Slide the keyboard tray out until it stops.

Figure 1-101 Slide the tray out

f. Push up on the keyboard tray to release two tabs on the bottom of the tray, and then slide the tray toward you to disengage the tabs.

Figure 1-102 Disengage the tabs



g. Slide the keyboard tray all the way out of the printer to remove it.

Figure 1-103 Remove the keyboard

2. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

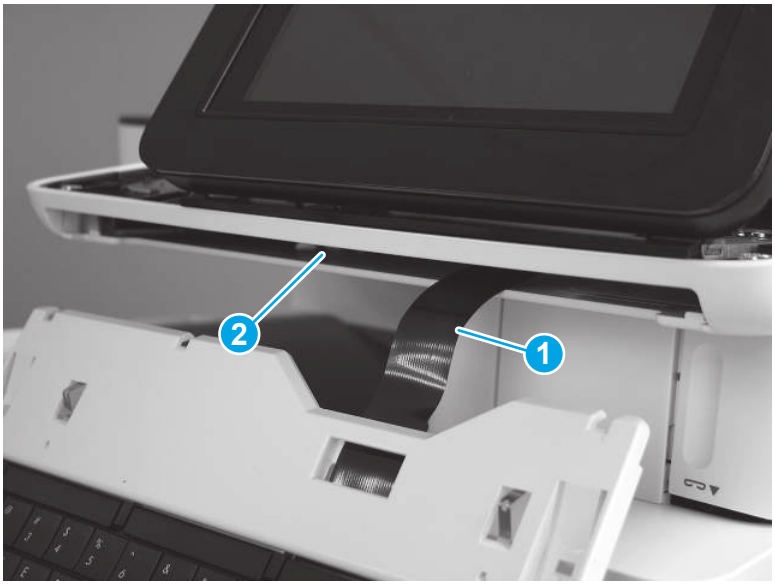
c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

3. Install the keyboard.

a. Position the flat cable (callout 1) on the keyboard into the keyboard slot (callout 2).

Figure 1-104 Install the FFC

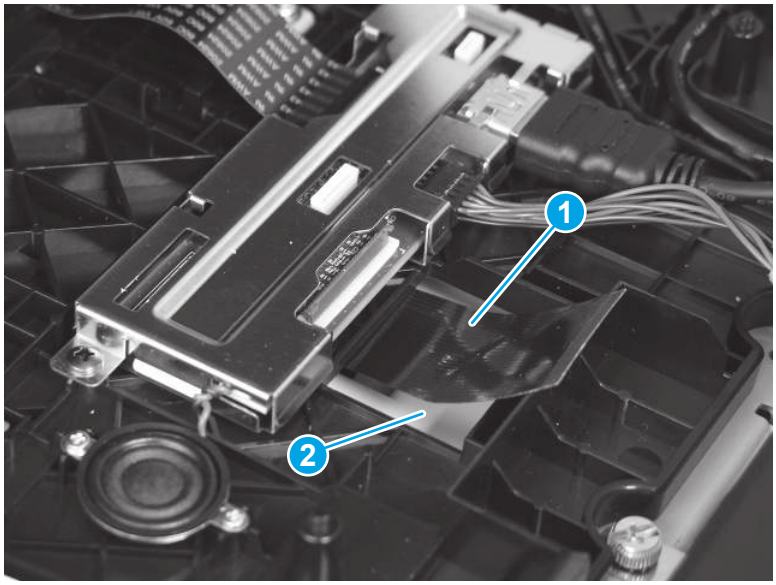


b. Slide the keyboard tray into the slot.

Figure 1-105 Install the keyboard

c. If the flat cable (callout 1) is not in the opening (callout 2) in the control panel base, carefully reach in and thread the flat cable through the opening.

Figure 1-106 Check the flat cable

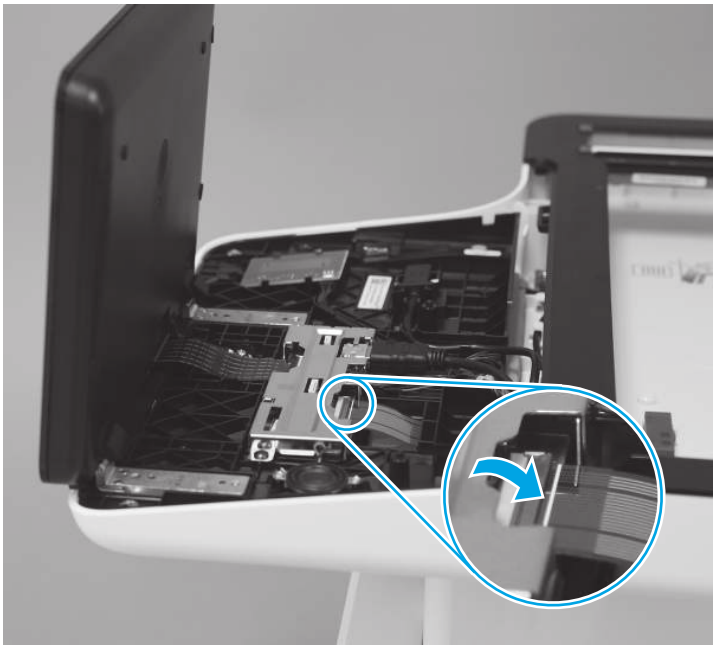


d. Position the keyboard flat cable in the connector, and then close the connector latch.

IMPORTANT: Slightly tug on the cable to make sure that it is fully captured in the connector.

NOTE: When the connector latch is closed and the cable is correctly installed, the white line on the cable is parallel to the connector latch.

Figure 1-107 Close the flat cable latch



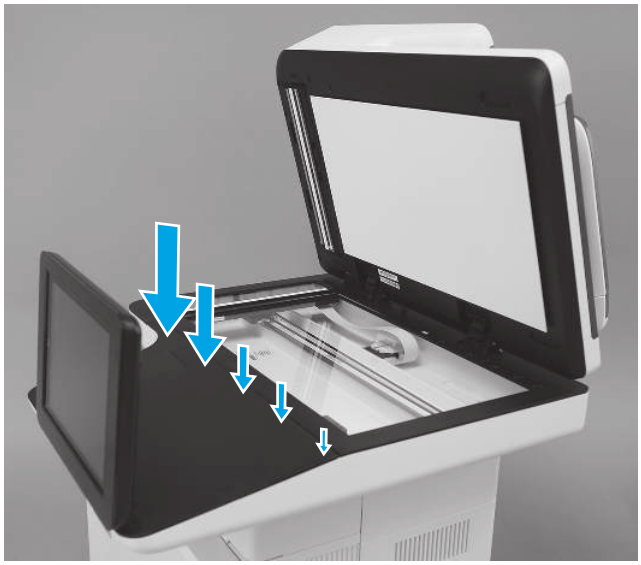
e. Position the control-panel cover on the printer.

Figure 1-108 Install the control-panel cover

f. Beginning at the left side of the control-panel cover, carefully push down along the top edge of the cover to engage five tabs.

NOTE: If the keyboard is unresponsive after turning the printer on, check the flat cable installed earlier. Reinstall the cable if necessary.

Figure 1-109 Engage five tabs



Field replaceable units (FRUs)

Learn how to remove and replace the printer FRU assemblies.

Removal and replacement: External panels, covers, and doors (base printer)

Learn how to remove and replace the printer external panels, covers, and doors.

Removal and replacement: Formatter cover

Learn how to remove and replace the formatter cover.

To view a short video of this procedure, click the link below.

M501

View a video of how to remove and replace the formatter cover (M501).

M506/E50045/M507/E50145

View a video of how to remove and replace the formatter cover (M506/E50045/M507/E50145).

M527/E52545/M528/E52645

View a video of how to remove and replace the formatter cover (M527/E52545/M528/E52645).

Mean time to repair: 8 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

⚠ **WARNING!** To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-11 Part information

Part number	Part description
RC4-4200-000CN	Formatter cover (M501)
RM2-5725-000CN	Formatter cover (M506/E50045/M507/E50145)
RM2-5717-000CN	Formatter cover (M527/E52545/M528/E52645)

Required tools

No special tools are required to remove or install this assembly.

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

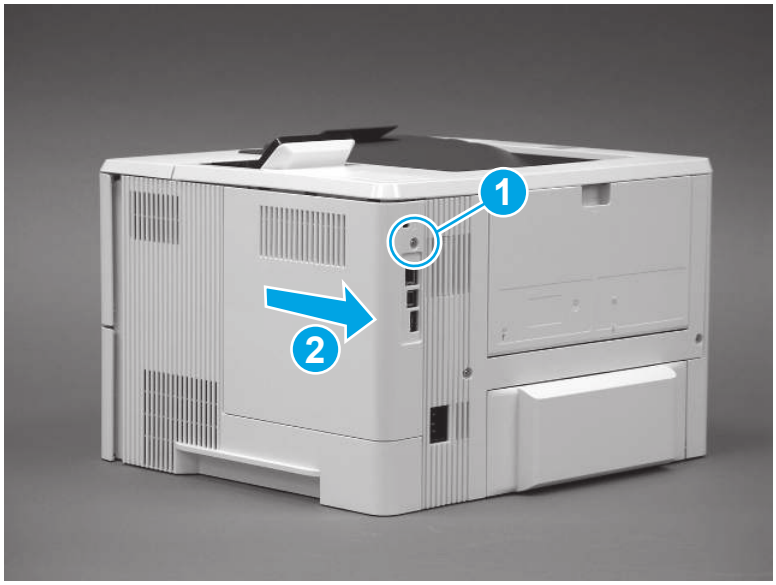
No post service test is available for this assembly.

1. Remove the formatter cover.

   ▲ Do one of the following:

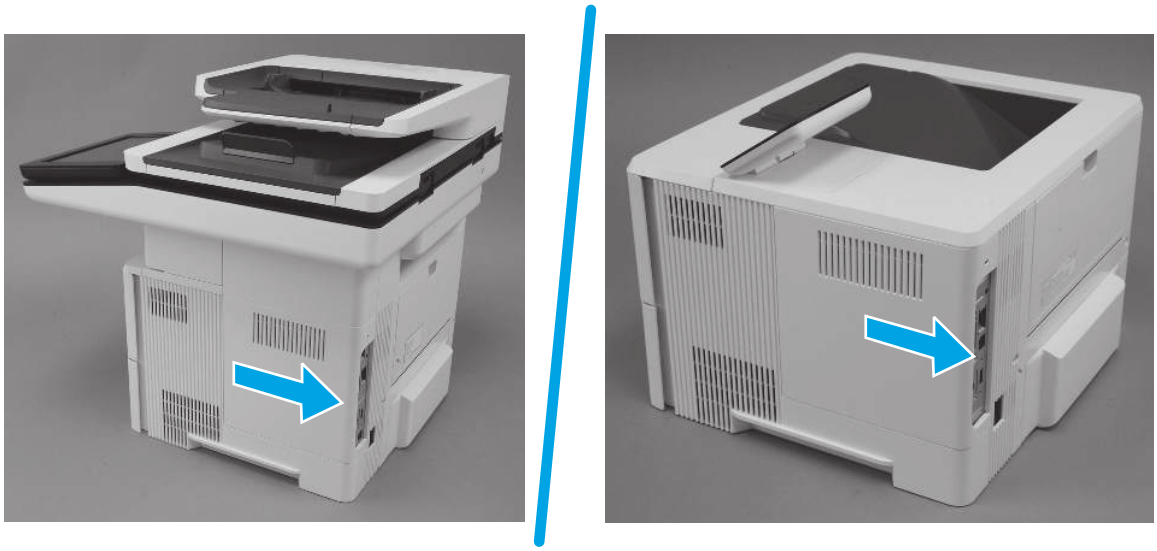
   - M501: Remove one screw (callout 1), and then slide the cover toward the rear of the printer to remove it (callout 2).

Figure 1-110 Remove the formatter cover (M501)



- **M506/E50045/M507/E50145/M527/E52545/M528/E52645**: Slide the cover toward the rear of the printer to remove it.

  Figure 1-111 Remove the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)



2. Unpack the replacement assembly.

   a. Dispose of the defective part.

   NOTE: HP recommends responsible disposal of the defective part.

   http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

   b. Unpack the replacement part from the packaging.

   CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

   If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

   IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

   c. To install an assembly, reverse the removal steps.

   NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Removal and replacement: Control panel (M501, 507n/dn, and E50145n/dn)

Learn how to remove and replace the control panel.

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the control panel.

Mean time to repair: 8 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

> ⚠ **WARNING!** To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-12 Part information

Part number	Part description
J8H60-67904	Control panel (M501)
RM2-2610-000CN	Control panel (507n/dn)
K0Q15-60106	Control panel E50145

Required tools

- Small flat-blade screwdriver

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

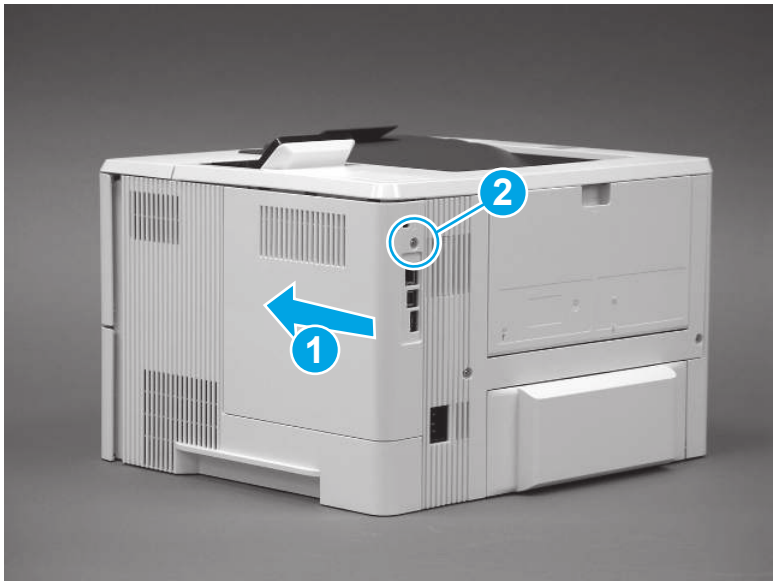
Make sure that the printer initializes to a **Ready** state.

Access the menus by using the printer control panel, and then print a configuration page to make sure that the printer is functioning correctly.

1. Remove the control panel.

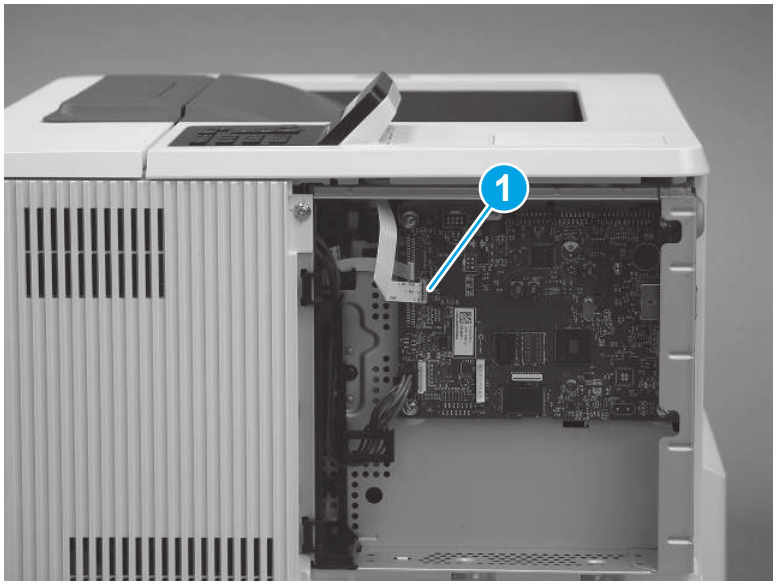
a. Remove one screw (callout 1), and then slide the cover toward the rear of the printer to remove it (callout 2).

Figure 1-112 Remove the formatter cover



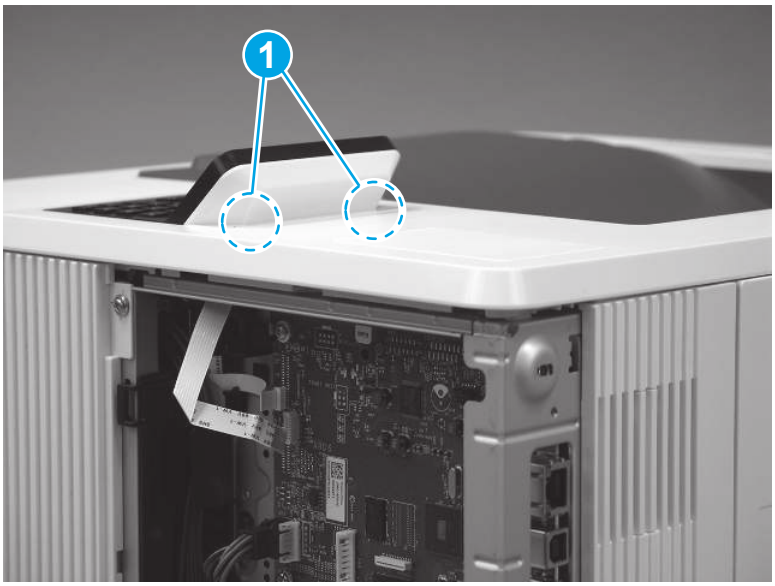
b. Disconnect one flat cable (callout 1).

Figure 1-113 Disconnect one flat cable



c. Locate two tabs (callout 1) along the rear edge of the control panel.

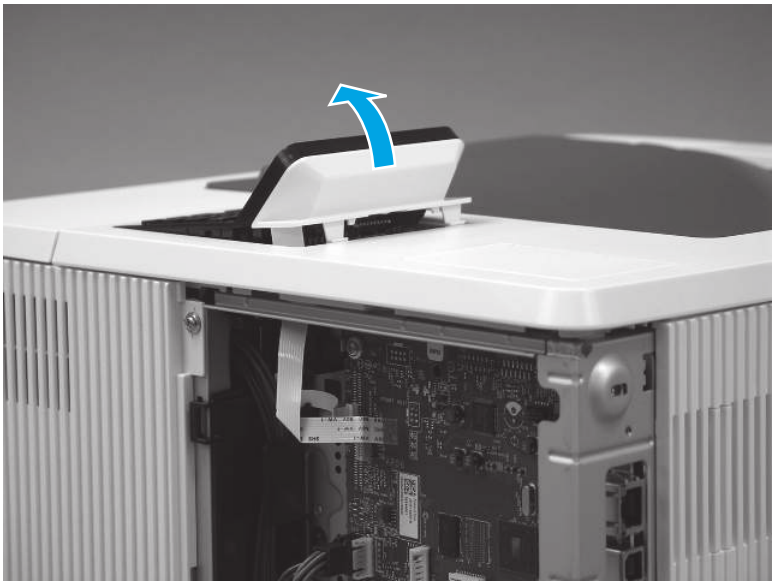
Figure 1-114 Locate two tabs



d. Release the two tabs, and then rotate the rear edge of the control panel up and away from the printer.

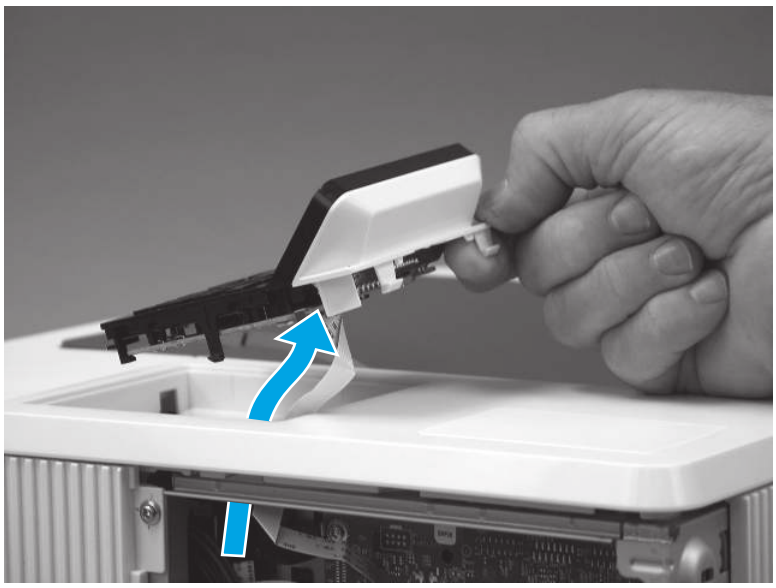
TIP: Use a small flat-blade screw driver to release the two tabs.

Figure 1-115 Release the control panel



e. Pass the flat cable attached to the control panel thorough the opening in the printer chassis, and then remove the control panel.

Figure 1-116 Remove the control panel



2. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Removal and replacement: Control-panel cover (MFP)

Learn how to remove and replace the control-panel cable cover (M527/E52545/M528/E52645).

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the control panel cover.

Mean time to repair: 8 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

> ⚠ **WARNING!** To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-13 Part information

Part number	Part description
B5L46-60117	Control-panel cover (M527/E52545)
B5L47-67018	Control-panel cover (M528/E52645)

Required tools

- No special tools are required to remove or install this assembly.

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

No post service test is available for this assembly.

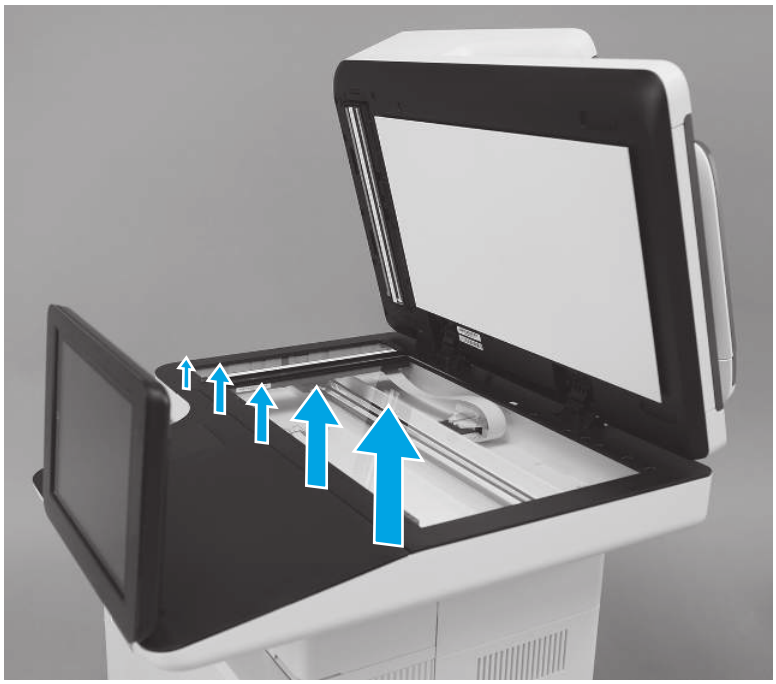
1. Remove the control-panel cover.
   a. If the document feeder is not open, open it now.

> **NOTE:** If the control panel is not fully tilted forward, tilt it forward now until it stops.

Figure 1-117 Open the document feeder

b. Beginning at the right side of the control-panel cover, carefully release five tabs along the top edge of the cover.

Figure 1-118 Release five tabs



c. Continue to rotate the top edge of the cover away from the printer, and then remove the cover.

Figure 1-119 Remove the cover

2. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Removal and replacement: Top-left cover (MFP)

Learn how to remove and replace the top-left cover.

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the top-left cover.

Mean time to repair: 8 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

> ⚠ **WARNING!** To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-14 Part information

Part number	Part description
RC4-4147-000CN	Cover, top left

Required tools

- No special tools are required to remove or install this assembly.

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

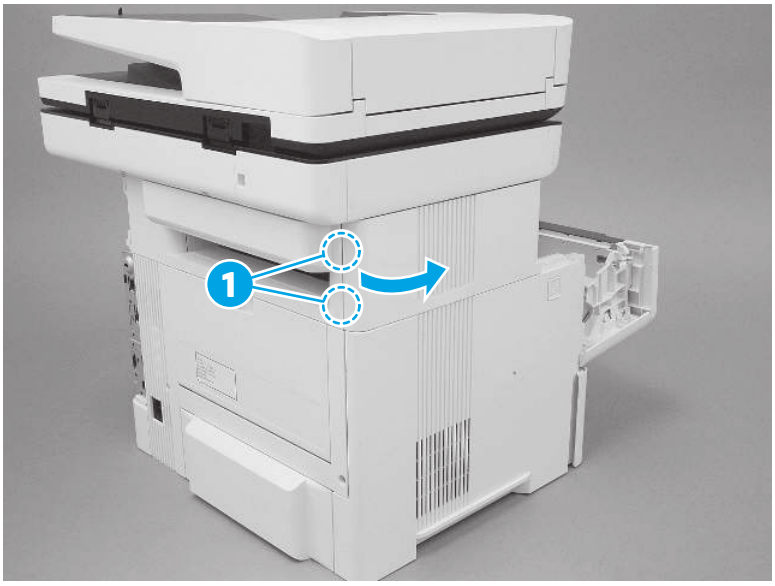
Post service test

No post service test is available for this assembly.

1. Remove the top-left cover (M527/E52545M528/E52645).

a. Open the toner-cartridge door, release two tabs (callout 1), and then rotate the rear edge of the cover away from the printer.

Figure 1-120 Release two tabs



b. Continue to rotate the cover away from the printer to release two more tabs at the middle of the cover.

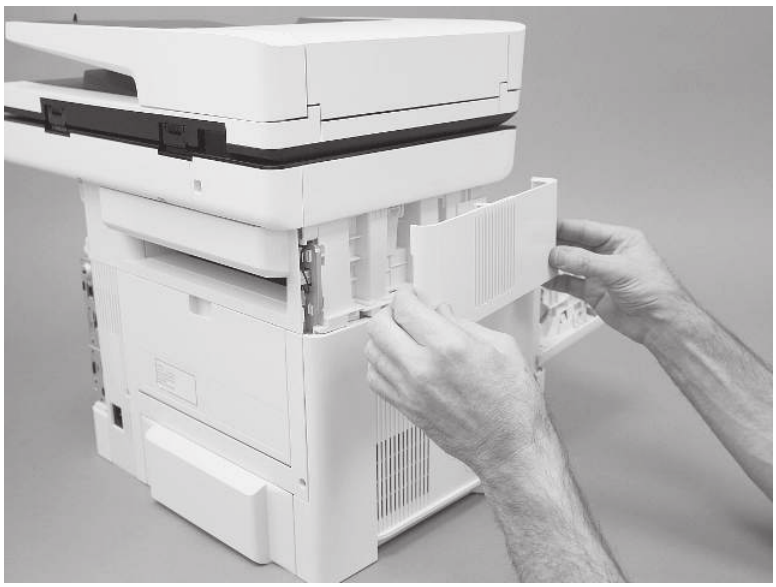
Figure 1-121 Release two tabs

c. Slide the cover toward the rear of the printer to release two bosses at the front of the cover.

Figure 1-122 Slide the cover

d. Remove the cover.

Figure 1-123 Remove the cover



2. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Removal and replacement: Top-rear cover (MFP)

Learn how to remove and replace the top-rear cover.

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the top-rear cover.

Mean time to repair: 8 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

WARNING! To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-15 Part information

Part number	Part description
RC4-3002-000CN	Cover, top rear

Required tools

- No special tools are required to remove or install this assembly.

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

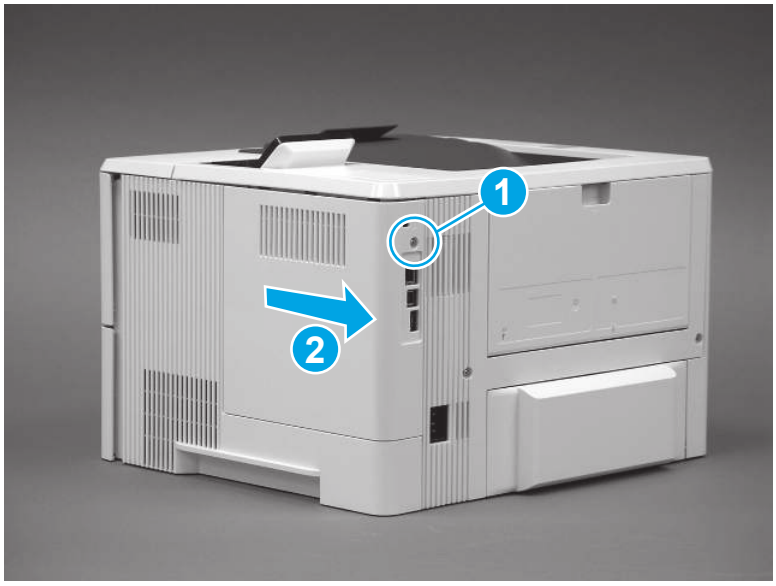
No post service test is available for this assembly.

1. Remove the formatter cover.

   ▲ Do one of the following:

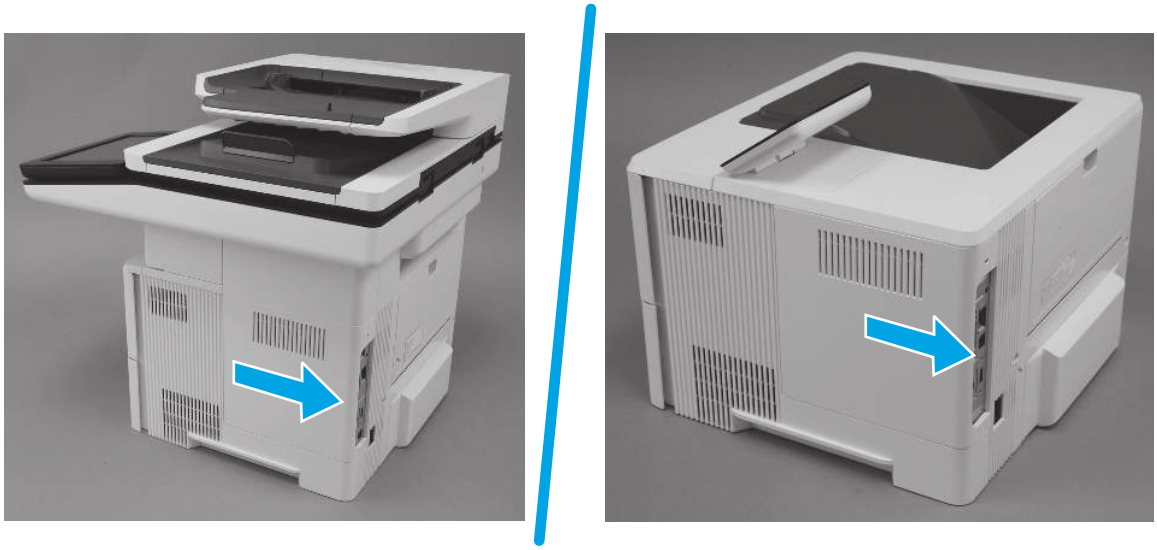
   - M501: Remove one screw (callout 1), and then slide the cover toward the rear of the printer to remove it (callout 2).

     Figure 1-124 Remove the formatter cover (M501)

   - M506/E50045/M507/E50145/M527/E52545/M528/E52645: Slide the cover toward the rear of the printer to remove it.

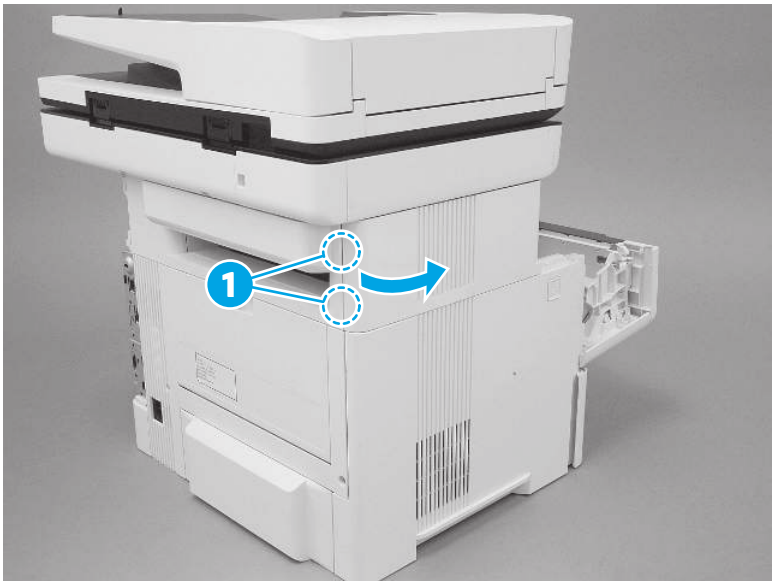
Figure 1-125 Remove the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)



2. Remove the top-left cover (M527/E52545M528/E52645).

   a. Open the toner-cartridge door, release two tabs (callout 1), and then rotate the rear edge of the cover away from the printer.

Figure 1-126 Release two tabs



b. Continue to rotate the cover away from the printer to release two more tabs at the middle of the cover.

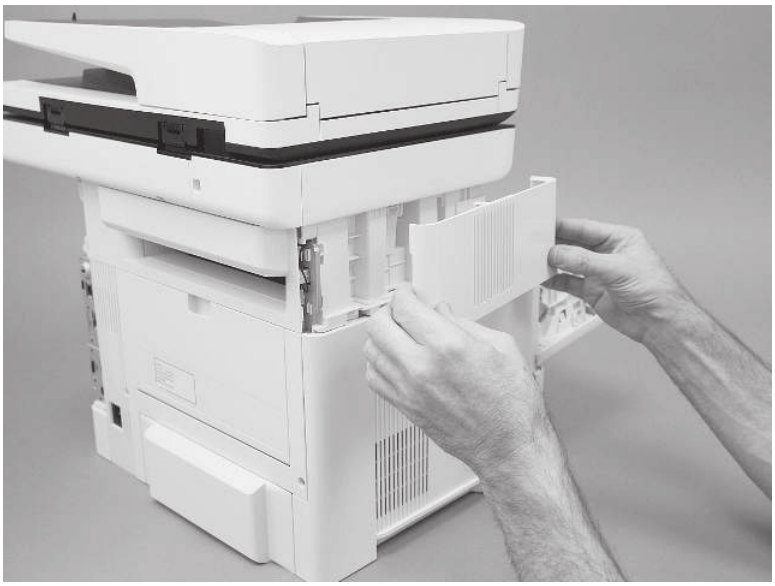
Figure 1-127 Release two tabs

c. Slide the cover toward the rear of the printer to release two bosses at the front of the cover.

Figure 1-128 Slide the cover

d. Remove the cover.

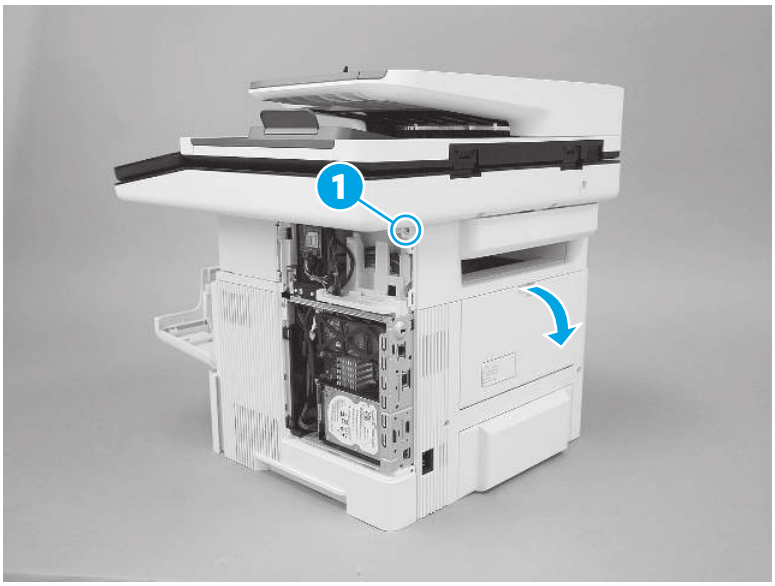
Figure 1-129 Remove the cover



3. Remove the top-rear cover (M527/E52545/M528/E52645).

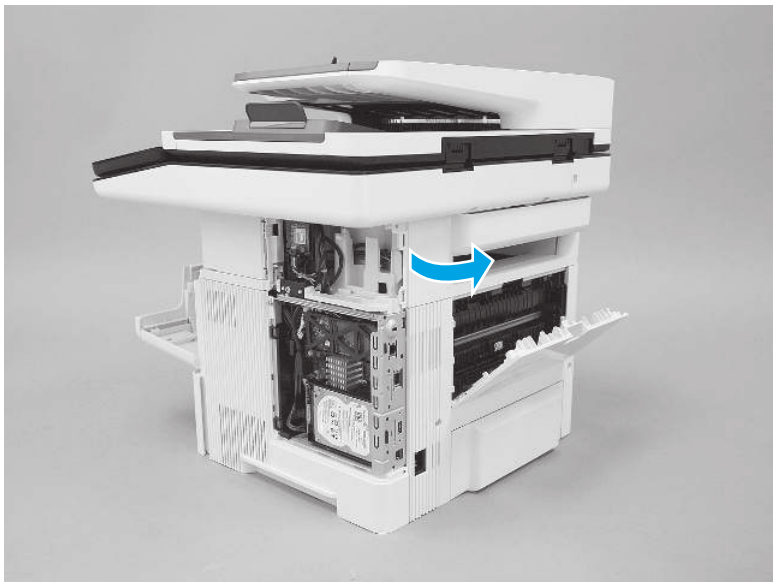
a. Remove one screw (callout 1), and then open the rear door.

Figure 1-130 Remove one screw



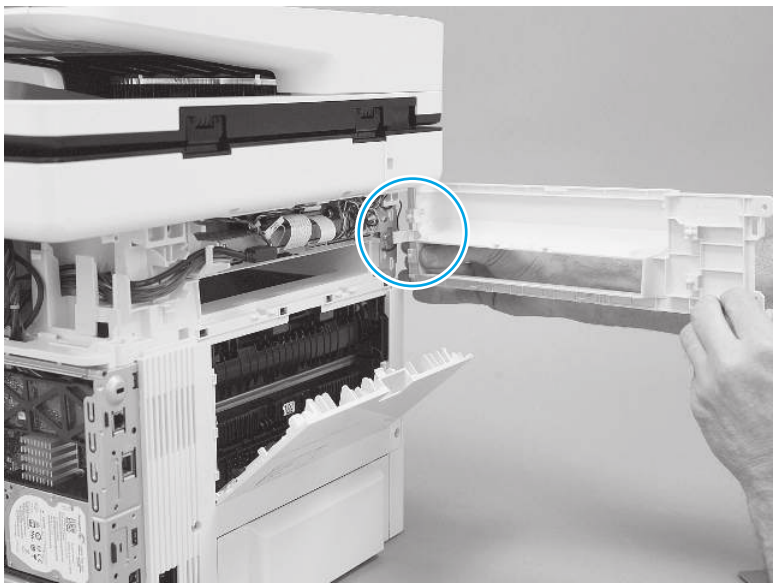
b. Rotate the exposed edge of the cover away from the printer (as shown).

Figure 1-131 Rotate the cover



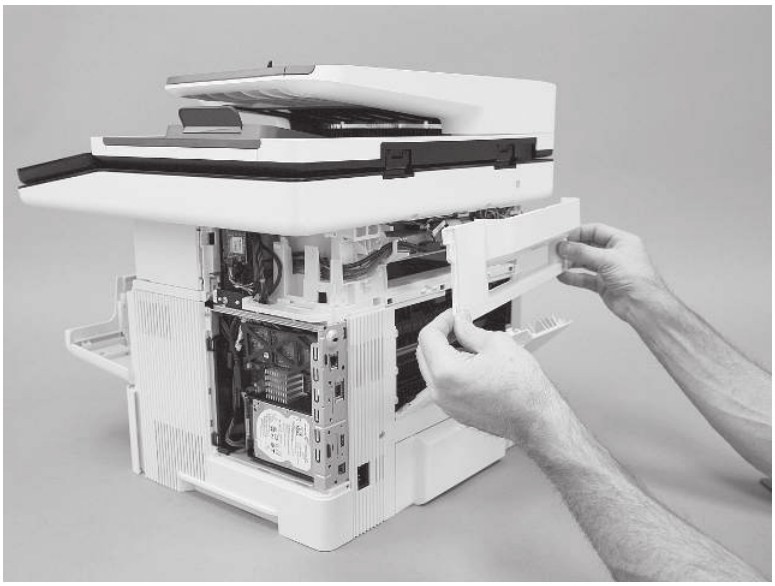
c. Continue to rotate the cover away from the printer to release one boss.

Figure 1-132 Release one boss



d. Remove the cover.

Figure 1-133 Remove the cover



4. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Removal and replacement: Document feeder (MFP)

Learn how to remove and replace the document feeder.

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the document feeder.

Mean time to repair: 10 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

> ⚠ **WARNING!** To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-16 Part information

Part number	Part description
B5L47-67906	ADF whole unit Enterprise (document feeder; kit with instruction guide; includes white backing kit)
B5L47-67907	ADF whole unit Workflow (document feeder; kit with instruction guide (includes white backing kit)

Required tools

- #2 Phillips screwdriver with a magnetic tip and a 152 mm (6 in) shaft length
- Small flat-blade screwdriver

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

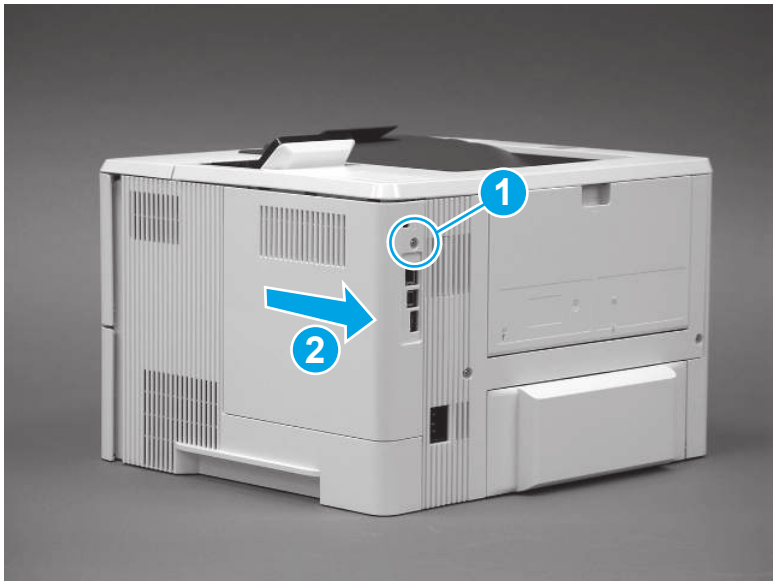
Use the document feeder to make a copy to make sure that it is properly functioning.

1. Remove the formatter cover.

   ▲ Do one of the following:

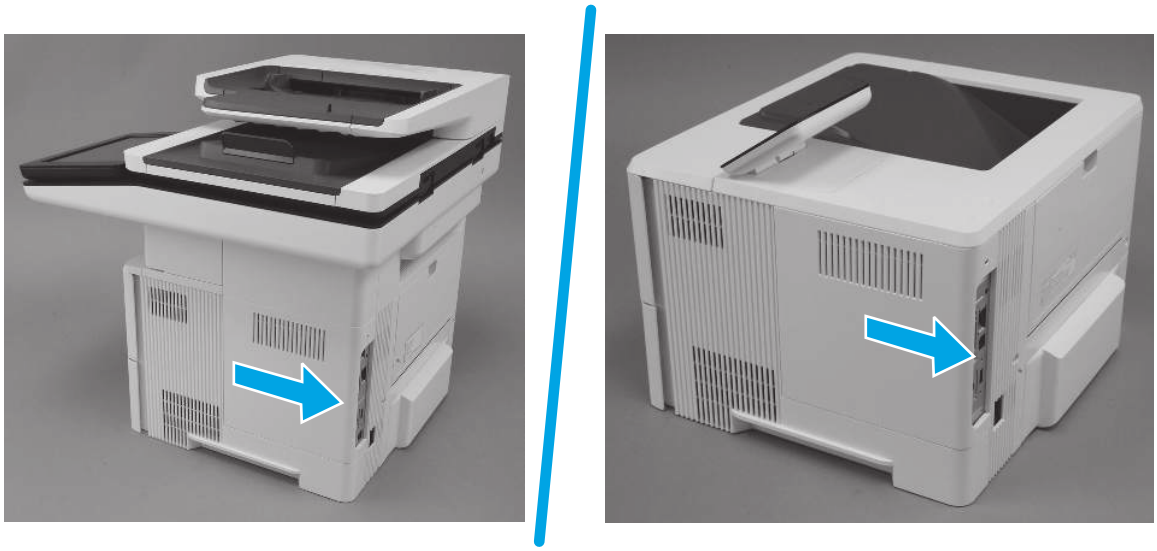
   - M501: Remove one screw (callout 1), and then slide the cover toward the rear of the printer to remove it (callout 2).

Figure 1-134 Remove the formatter cover (M501)



- M506/E50045/M507/E50145/M527/E52545/M528/E52645: Slide the cover toward the rear of the printer to remove it.

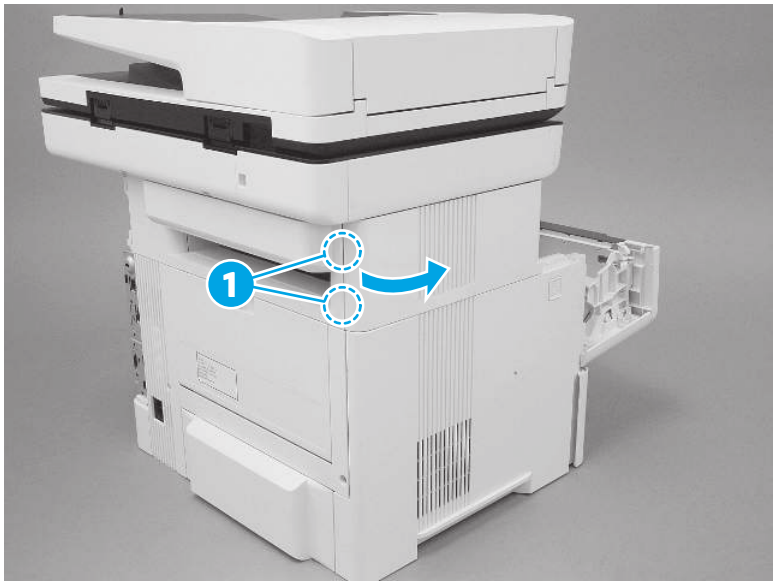
  Figure 1-135 Remove the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)



2. Remove the top-left cover (M527/E52545M528/E52645).

a. Open the toner-cartridge door, release two tabs (callout 1), and then rotate the rear edge of the cover away from the printer.

Figure 1-136 Release two tabs



b. Continue to rotate the cover away from the printer to release two more tabs at the middle of the cover.

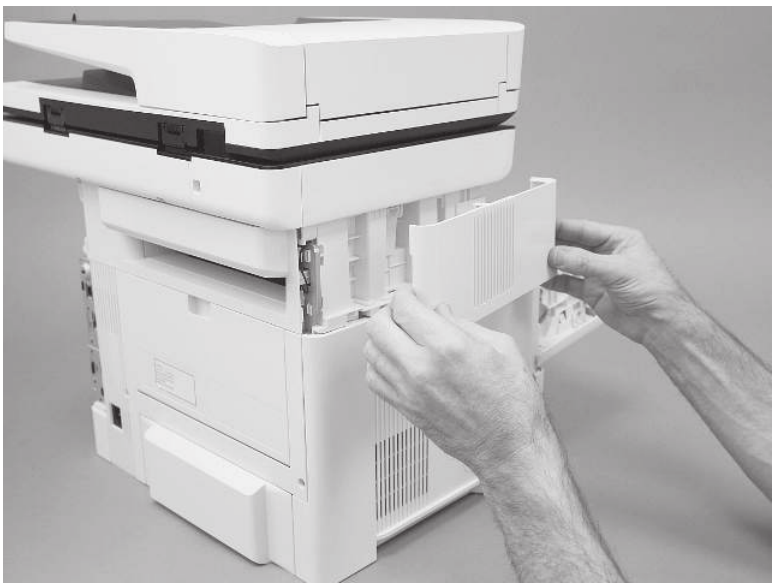
Figure 1-137 Release two tabs

c. Slide the cover toward the rear of the printer to release two bosses at the front of the cover.

Figure 1-138 Slide the cover

d. Remove the cover.

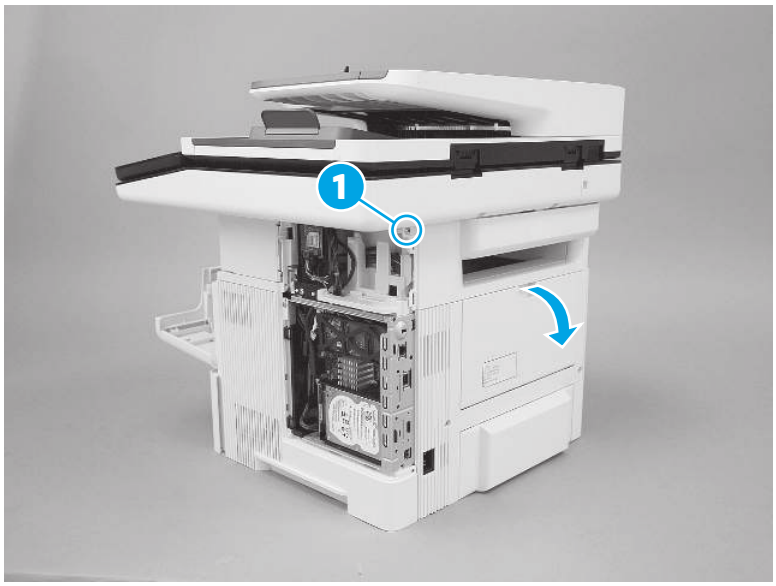
Figure 1-139 Remove the cover



3. Remove the top-rear cover (M527/E52545/M528/E52645).

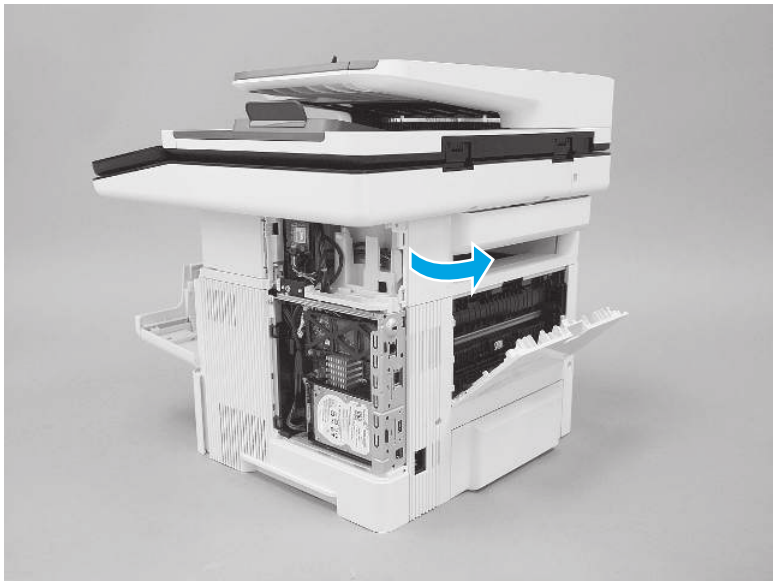
a. Remove one screw (callout 1), and then open the rear door.

Figure 1-140 Remove one screw



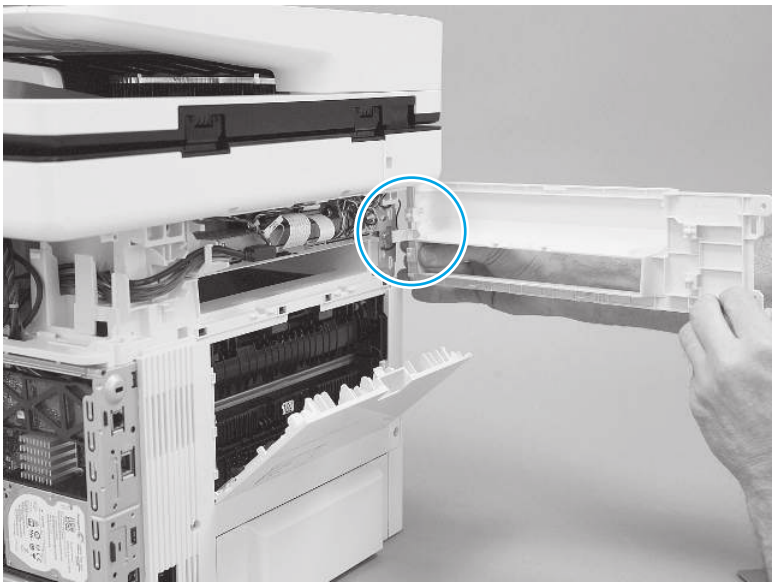
b. Rotate the exposed edge of the cover away from the printer (as shown).

Figure 1-141 Rotate the cover



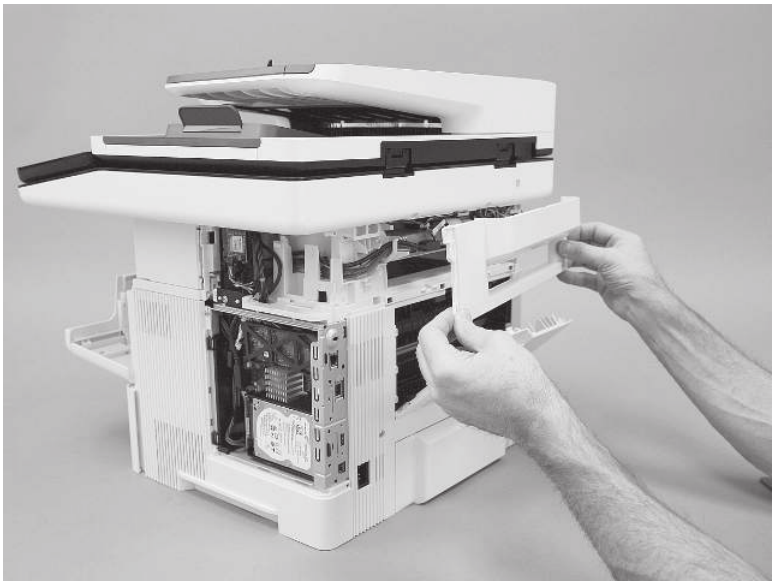
c. Continue to rotate the cover away from the printer to release one boss.

Figure 1-142 Release one boss



d. Remove the cover.

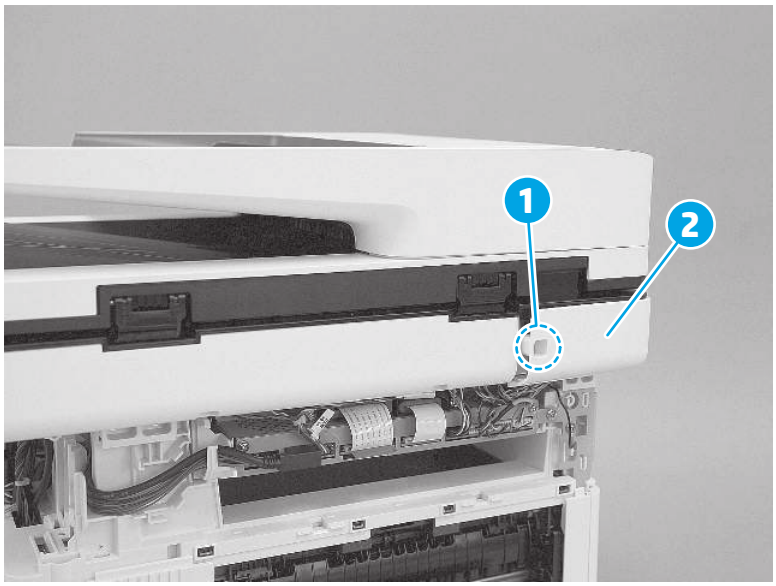
Figure 1-143 Remove the cover



4. Remove the document feeder.

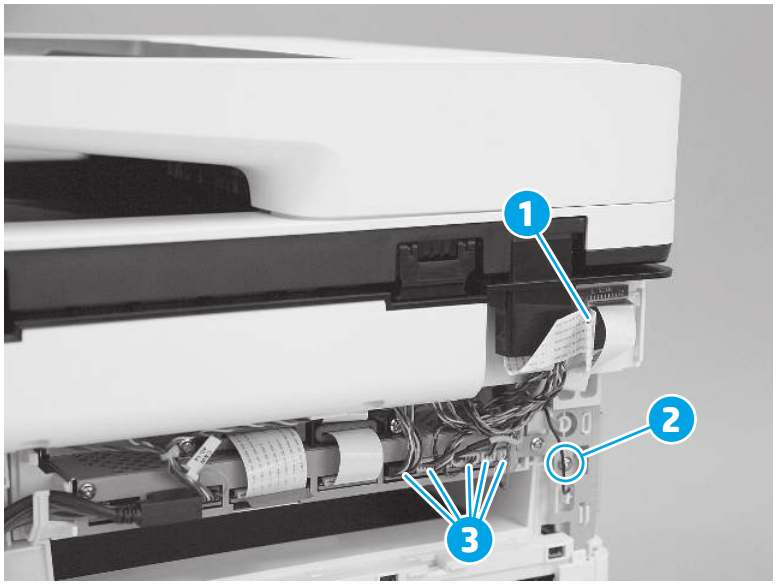
a. Remove one screw (callout 1), and then remove the cable cover (callout 2).

Figure 1-144 Remove the cover



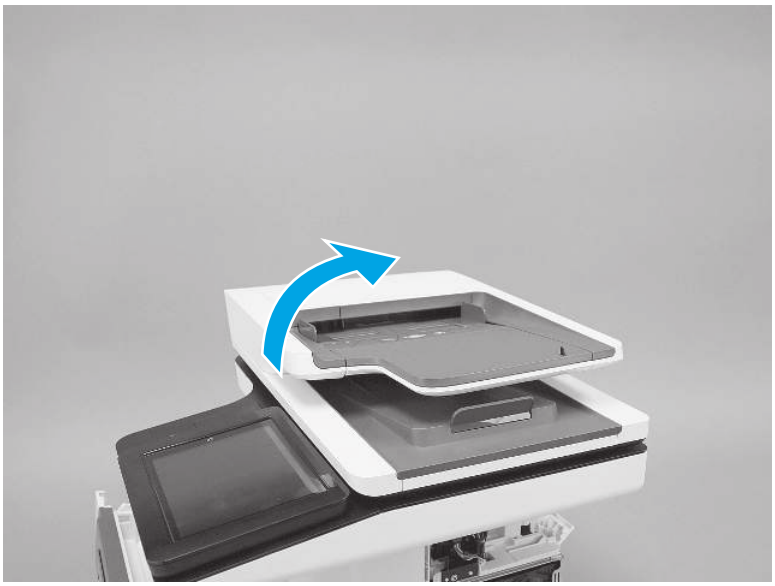
b. Disconnect one flat-flexible cable (FFC; callout 1), remove one ground screw (callout 2), and then disconnect five connectors (callout 3).

Figure 1-145 Disconnect the FFC, ground cable, and connectors



c. Open the document feeder.

Figure 1-146 Open the document feeder



d. Tilt the document feeder back until it stops (callout 1), and then lift it up until it stops (callout 2).

Figure 1-147 Raise the document feeder

e. Support the document feeder, and then use a small flat-blade screwdriver to release two tabs on the document feeder hinges.

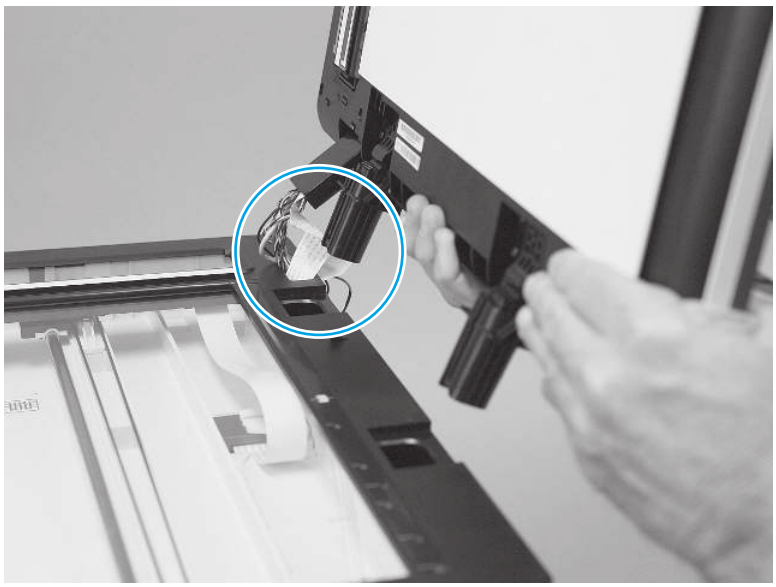
NOTE: The tabs are located on the front side (scanner flatbed glass) of the hinges. Use the figure below to locate the tabs.

Figure 1-148 Release two tabs

f. Lift the document feeder up to remove it.

NOTE: While removing the document feeder, carefully pass the wire harnesses and the FFC through the opening in the scanner.

Figure 1-149 Remove the document feeder



5. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

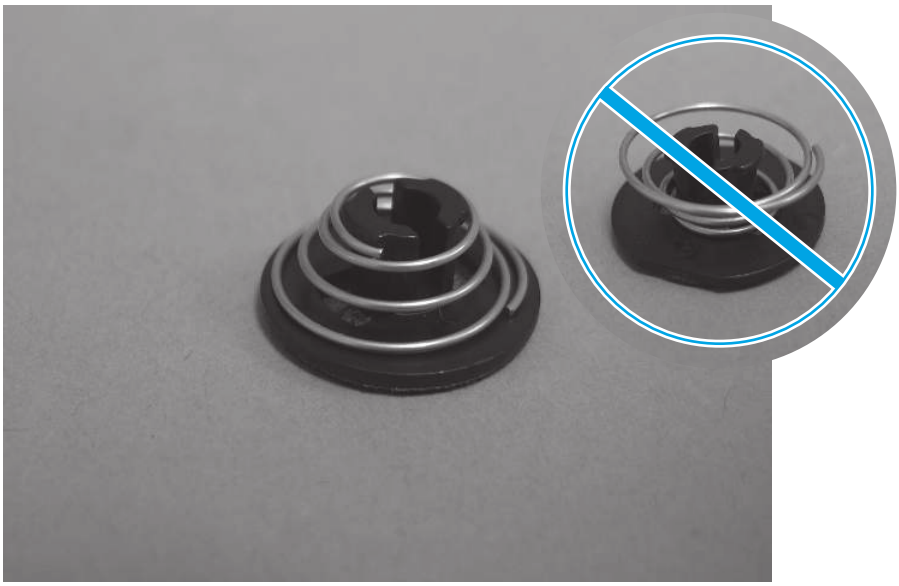
NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

6. Reverse the removal steps to install the assembly. Also use the following **special installation instructions**.

Install a replacement white backing

a. Verify that the springs are positioned correctly on the replacement retention clips.

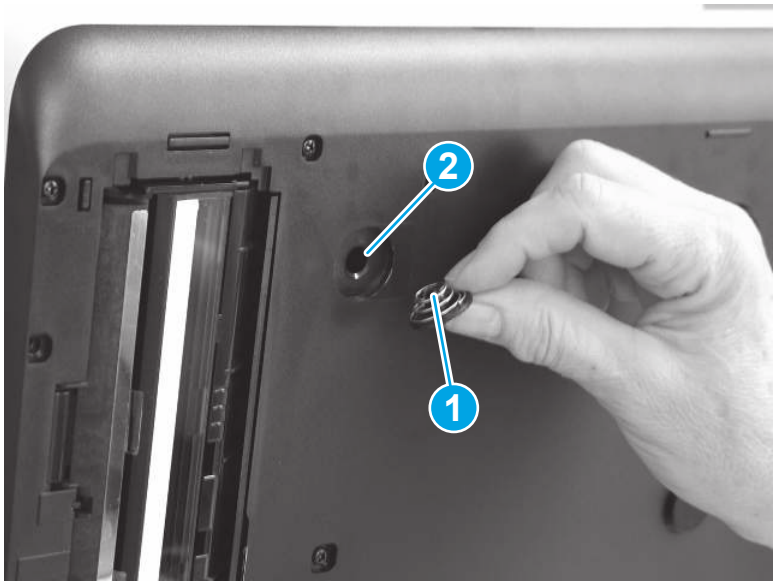
Figure 1-150 Check the retention clip spring



b. Install the clip (callout 1) in the opening (callout 2) in the document feeder.

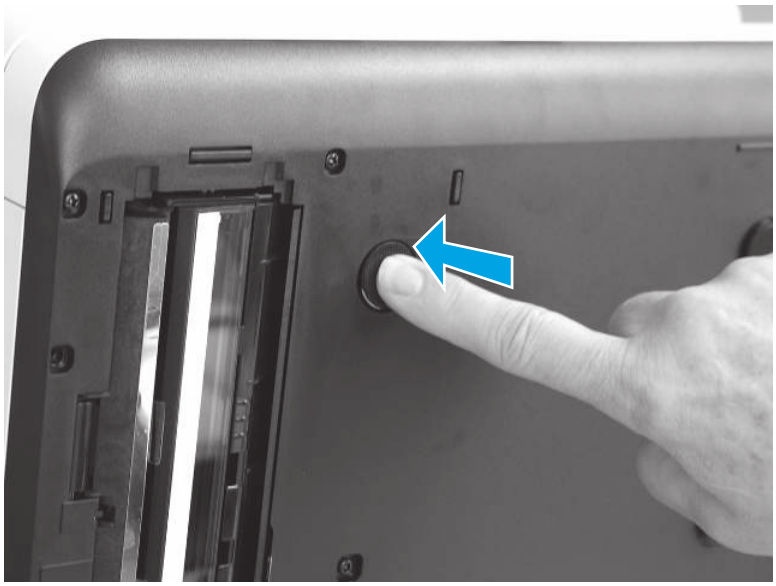
NOTE: Make sure that the springs are correctly installed. See the previous step.

Figure 1-151 Install the retention clip



c. Press the clip to make sure it is securely installed.

Figure 1-152 Press the retention clip



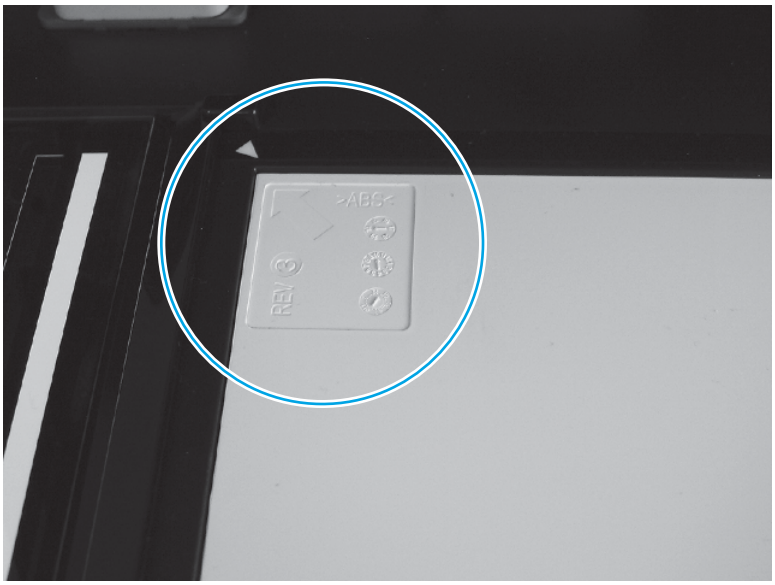
d. Remove the protective film off of each adhesive square.

Figure 1-153 White backing adhesive squares

e. Position the replacement white backing on the image scanner glass.

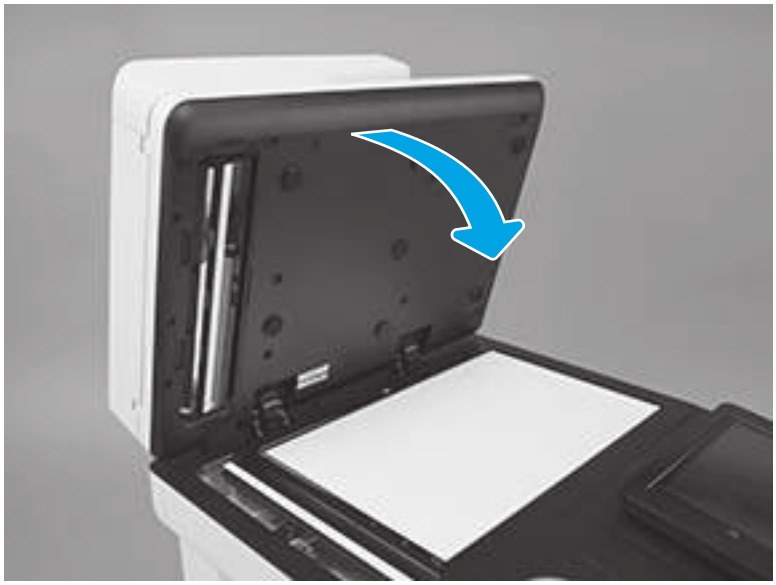
NOTE: Make sure that the corner with the embossed arrow on the white backing is positioned against the corner with the arrow on the scanner.

Figure 1-154 Install the white backing



f. Close the document feeder.

Figure 1-155 Close the document feeder



g. Open the document feeder and press on the white backing at the location of each retention clip to ensure that the backing is securely attached to the adhesive on the clips.

Figure 1-156 Check the white backing

h. Close the document feeder.

Figure 1-157 Close the document feeder

Reset the firmware counter.

a. From the HOME screen on the control panel, scroll to and touch the **Device Maintenance** button.

b. Scroll to and touch the **Service** button.

c. On the sign-in screen, select the **Service Access Code** option from the drop-down list.

d. Enter the following service access code for this printer:

   - 10052715

e. Scroll to and touch the **Cycle Counts** item.

f. Reset the following items:

   - Document Feeder Kit Intervals; set to zero
   - ADF Count; set to zero

Removal and replacement: Cartridge door assembly

Learn how to remove and replace the cartridge door assembly.

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the cartridge door.

Mean time to repair: 10 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

⚠ **WARNING!** To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-17 Part information

Part number	Part description
F2A76-67912	Cartridge door assembly kit (M527/E52545; all) with instruction guide (includes nameplate)
RM2-5691-000CN	Cartridge door assembly (M528/E52645)
F2A68-67919	Cartridge door assembly kit (M506n/dn/E50045n/dn) with instruction guide (includes nameplate)
F2A68-67920	Cartridge door assembly kit (M506x/M50045x) with instruction guide
RM2-5677-000CN	Cartridge door assembly (M501 and M507/E50145)
J8H60-40001	Nameplate, LaserJet Pro M501
RC4-3010–000CN	Hinge, cartridge door left
RC4-4479-000CN	Link, pressure release

Required tools

- Small flat-blade screwdriver

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

Make sure that the toner-cartridge door correctly opens and closes.

1. Remove the tray.

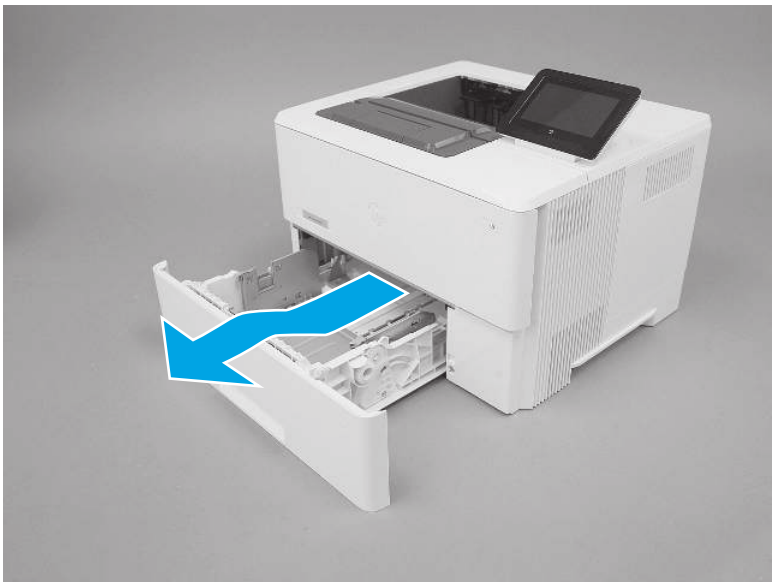
a. Pull the tray straight out of the printer until it stops.

Figure 1-158 Pull the tray out until it stops

b. Lift the front of the tray, and then pull it out of the printer to remove it.

NOTE: If the tray has Fixed Tray Guides installed and are still required, move the hardware to new tray. If necessary, order new kit: 3GY19-67901 Kit-Fixed Tray Guide. Only one kit required per engine.

Figure 1-159 Release and remove the tray



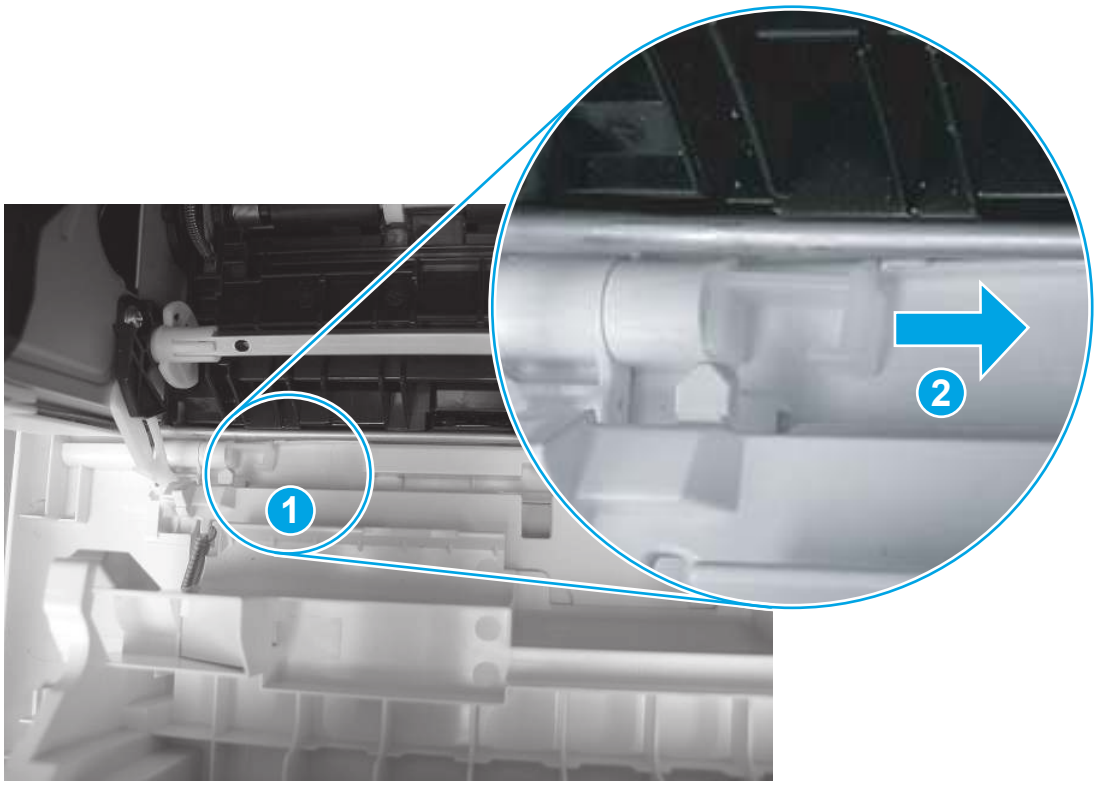
2. Remove the cartridge door assembly.

NOTE: If the toner cartridge was not removed prior to servicing the printer, remove it now.

a. Release the support shaft (callout 1), and then slide it toward the center of the door (callout 2).

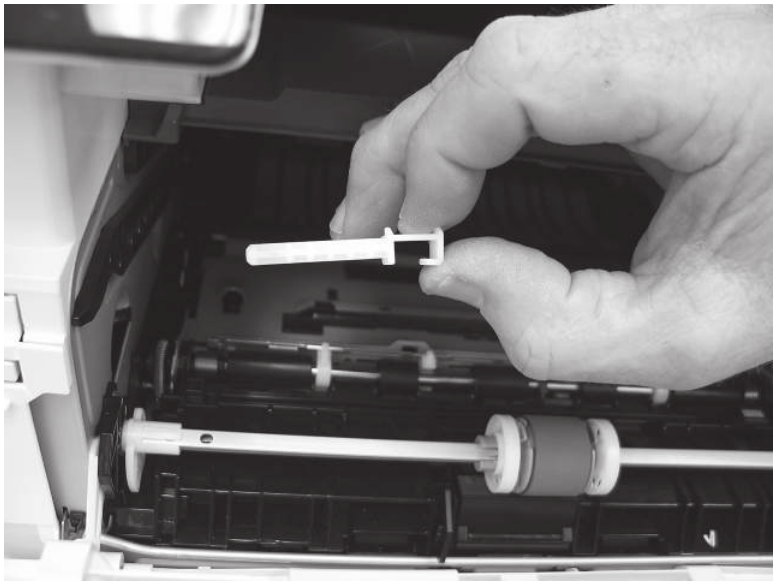
TIP: It might be easier to release the support shaft by using a small flat-blade screwdriver.

Figure 1-160 Release the support shaft



b. Remove the support shaft.

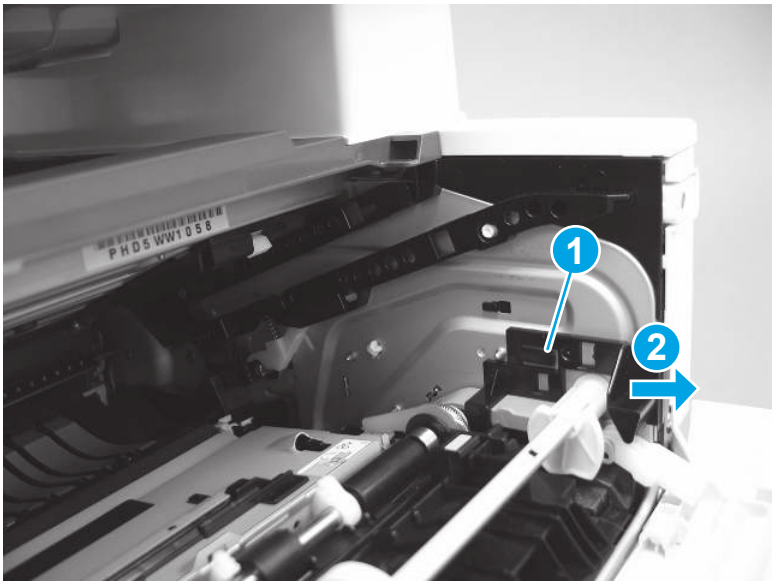
Figure 1-161 Remove the support shaft



c. Release one tab (callout 1), and then slide the guide out of the printer (callout 2).

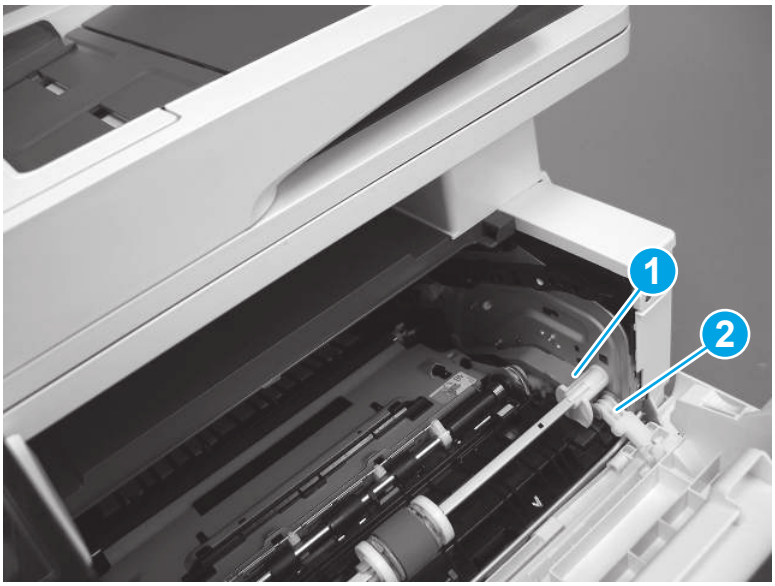
⚠ CAUTION: Be careful, the tab (callout 1) can be easily broken.

Figure 1-162 Remove the guide



d. Use a small flat-blade screwdriver to gently pry the white-plastic door arm (callout 1) off of the gray-plastic pressure-release link (callout 2) to release the door arm.

Figure 1-163 Release the pressure-release link



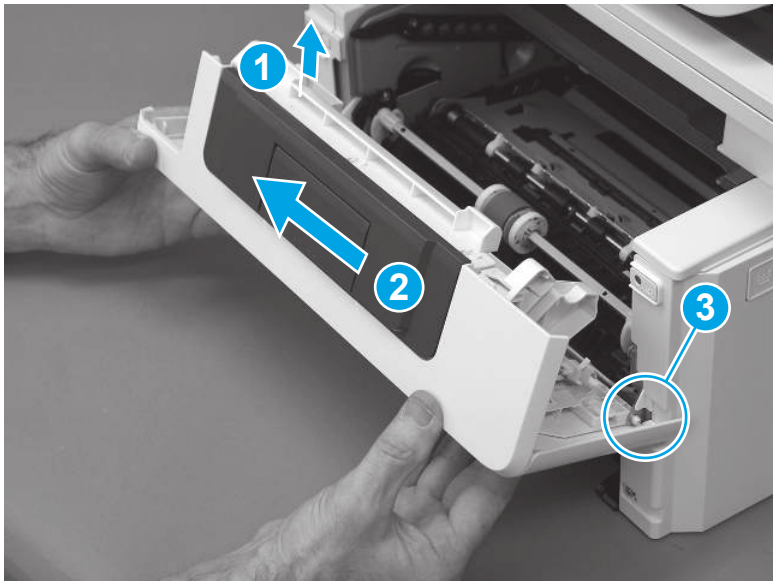
e. With the door in the partially closed position, slightly raise the left end (callout 1; raise it over the sheet-metal hinge boss), and then slide the door to the left (callout 2) to release the right hinge (callout 3).

⚠ CAUTION: The door is still attached to the printer by the left-side retainer arm. Do not attempt to completely remove the door.

Reinstallation tip: When reinstalling the door, there are two right-side hinge pins (not shown in callout 3).

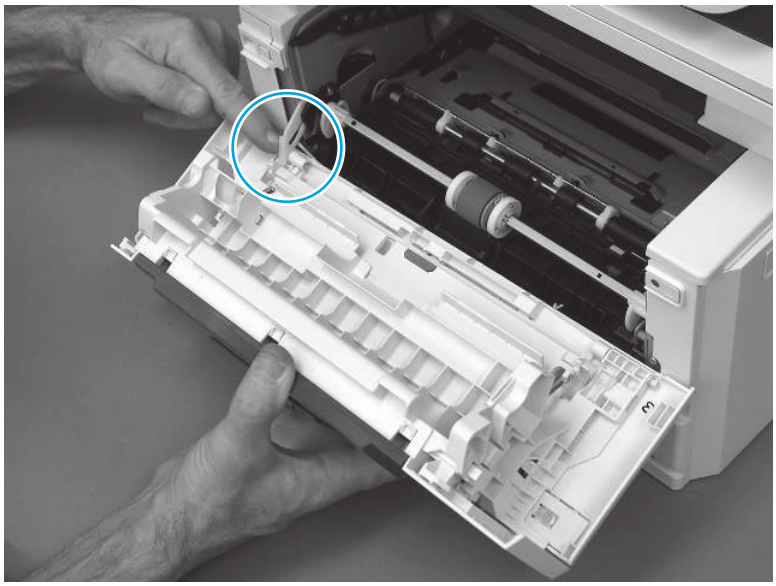
Keep a finger pressed on the left-side retainer arm so that it does not disengage from the door.

Figure 1-164 Release the door



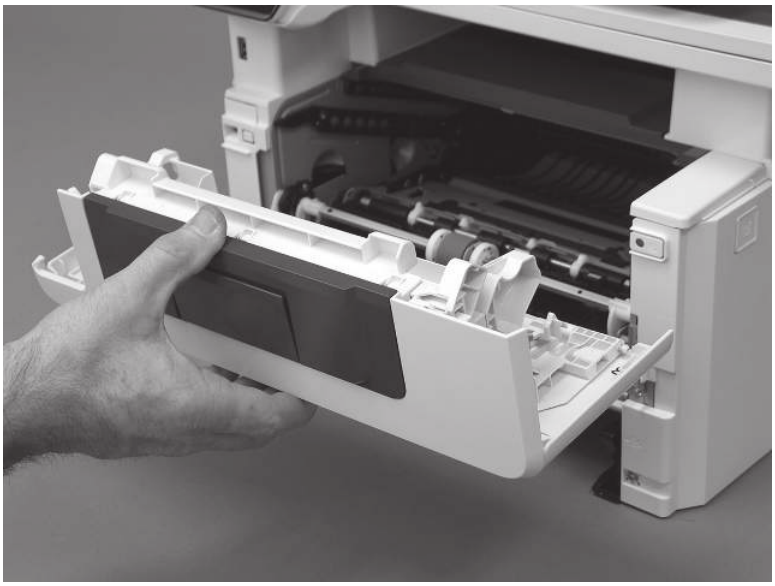
f. Rotate the door away from the printer until the keyed pin on the left-side retainer arm can disengage from the door.

Figure 1-165 Release the left-side retainer arm



g. Remove the door.

Figure 1-166 Remove the door



3. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Removal and replacement: Rear door assembly

Learn how to remove and replace the rear door assembly.

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the rear door assembly.

Mean time to repair: 10 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

> ⚠ **WARNING!** To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-18 Part information

Part number	Part description
RM2-5726-000CN	Rear door assembly (M501/M506/E50045/M507/E50145/M527/E52545/M528/E52645 duplex models)
RM2-5712-000CN	Rear door assembly (M501/M506/E50045/M507/E50145 simplex models)

Required tools

- #2 Phillips screwdriver with a magnetic tip and a 152 mm (6 in) shaft length

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

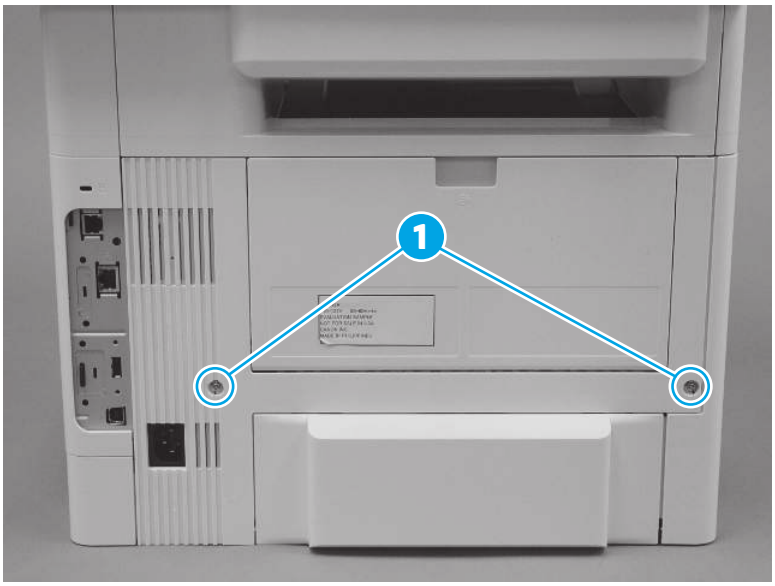
Post service test

No post service test is available for this assembly.

1. Remove the rear door assembly.

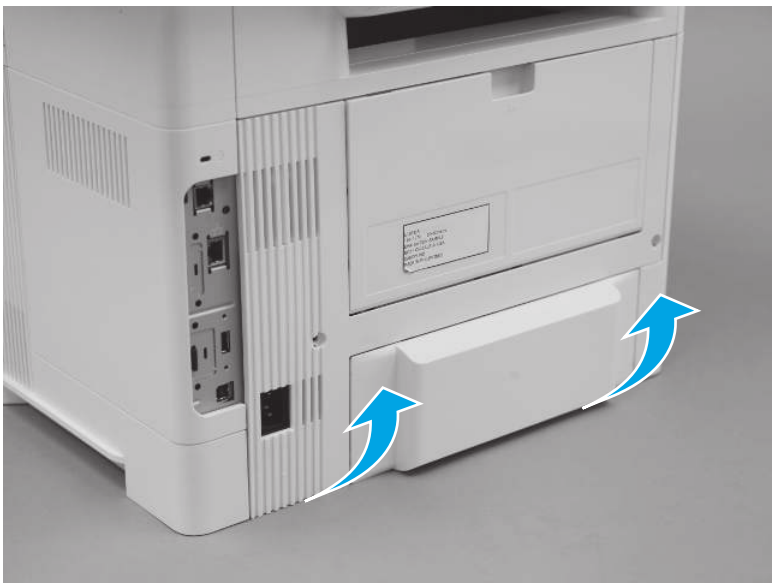
a. At the rear of the printer, remove two screws (callout 1).

Figure 1-167 Remove two screws



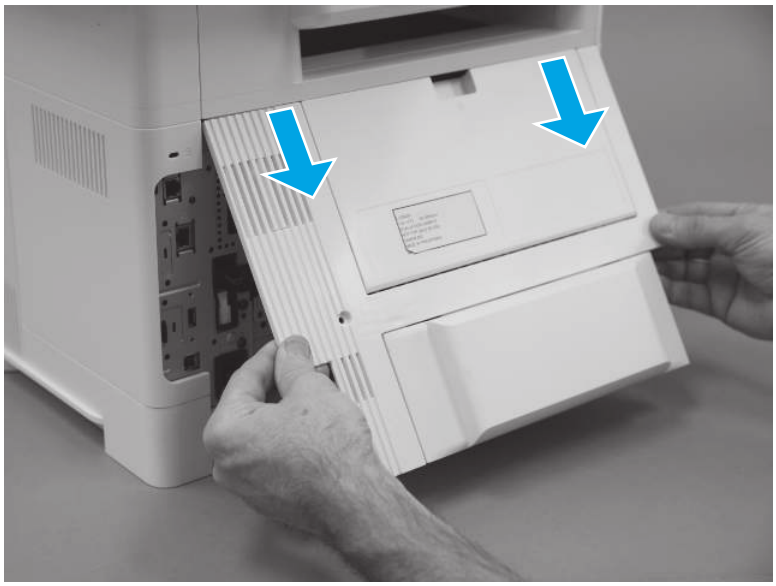
b. Rotate the bottom edge of the assembly away from the printer to release it.

Figure 1-168 Rotate the bottom of the cover



c. Pull down on the assembly to remove it.

Figure 1-169 Remove the cover



2. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Removal and replacement: Right cover

Learn how to remove and replace the right cover

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the right cover.

Mean time to repair: 10 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

> ⚠ **WARNING!** To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-19 Part information

Part number	Part description
RC4-4437-000CN	Right cover

Required tools

- #2 Phillips screwdriver with a magnetic tip and a 152 mm (6 in) shaft length

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

No post service test is available for this assembly.

1. Remove the tray.

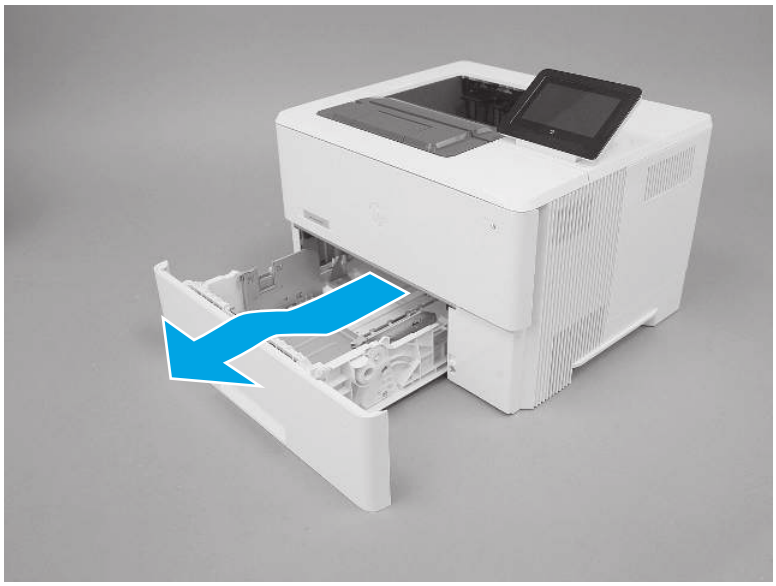
a. Pull the tray straight out of the printer until it stops.

Figure 1-170 Pull the tray out until it stops

b. Lift the front of the tray, and then pull it out of the printer to remove it.

NOTE: If the tray has Fixed Tray Guides installed and are still required, move the hardware to new tray. If necessary, order new kit: 3GY19-67901 Kit-Fixed Tray Guide. Only one kit required per engine.

Figure 1-171 Release and remove the tray

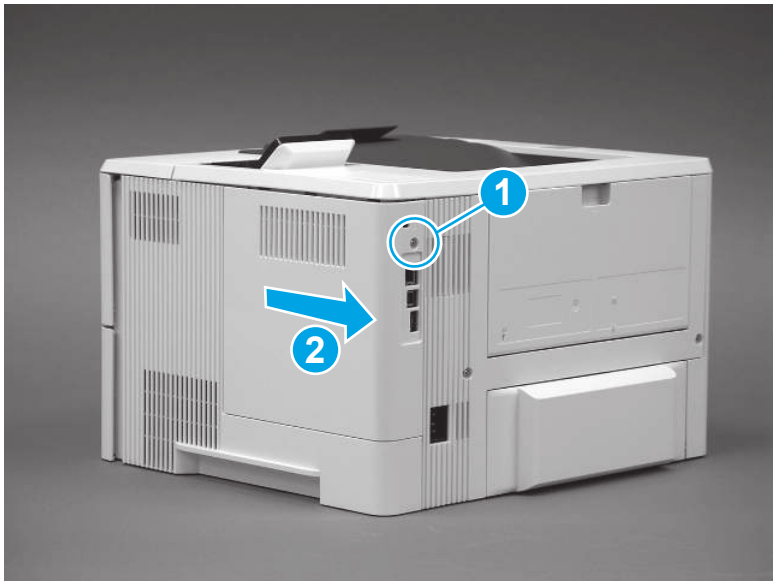


2. Remove the formatter cover.

▲ Do one of the following:

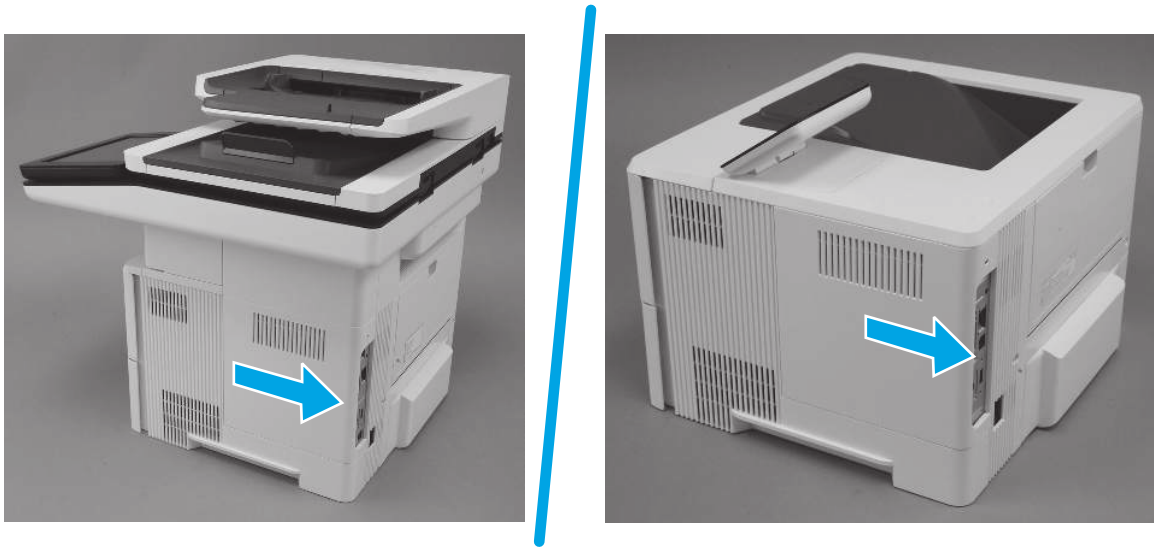
- M501: Remove one screw (callout 1), and then slide the cover toward the rear of the printer to remove it (callout 2).

Figure 1-172 Remove the formatter cover (M501)



- M506/E50045/M507/E50145/M527/E52545/M528/E52645: Slide the cover toward the rear of the printer to remove it.

Figure 1-173 Remove the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)



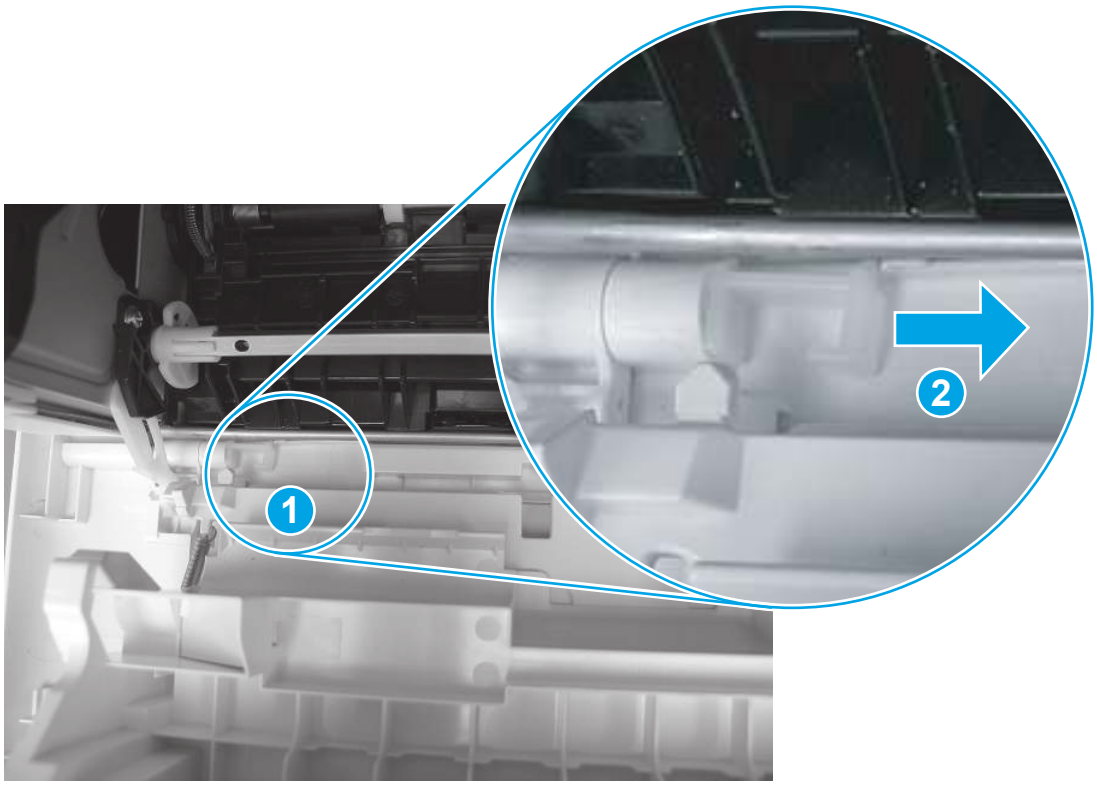
3. Remove the cartridge door assembly.

NOTE: If the toner cartridge was not removed prior to servicing the printer, remove it now.

a. Release the support shaft (callout 1), and then slide it toward the center of the door (callout 2).

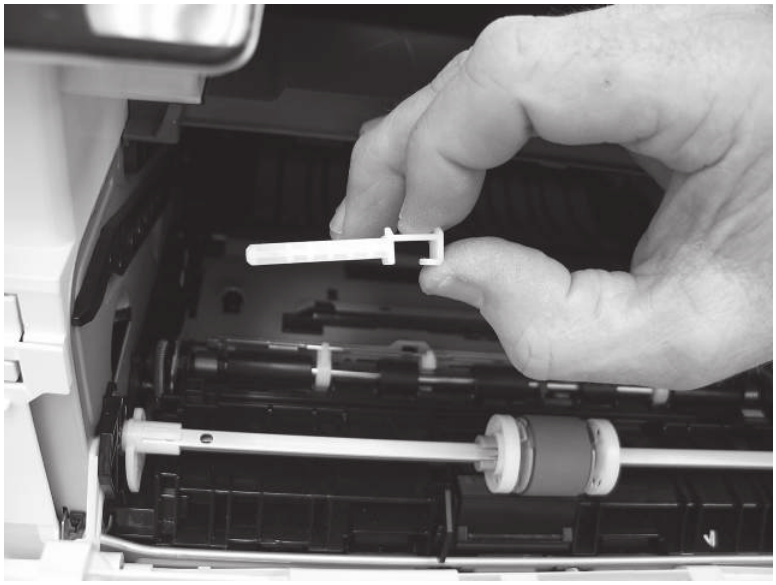
TIP: It might be easier to release the support shaft by using a small flat-blade screwdriver.

Figure 1-174 Release the support shaft



b. Remove the support shaft.

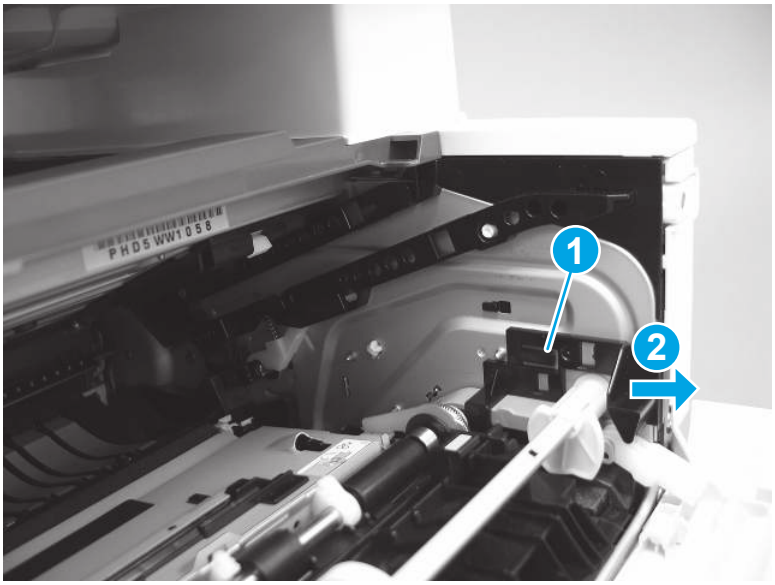
Figure 1-175 Remove the support shaft



c. Release one tab (callout 1), and then slide the guide out of the printer (callout 2).

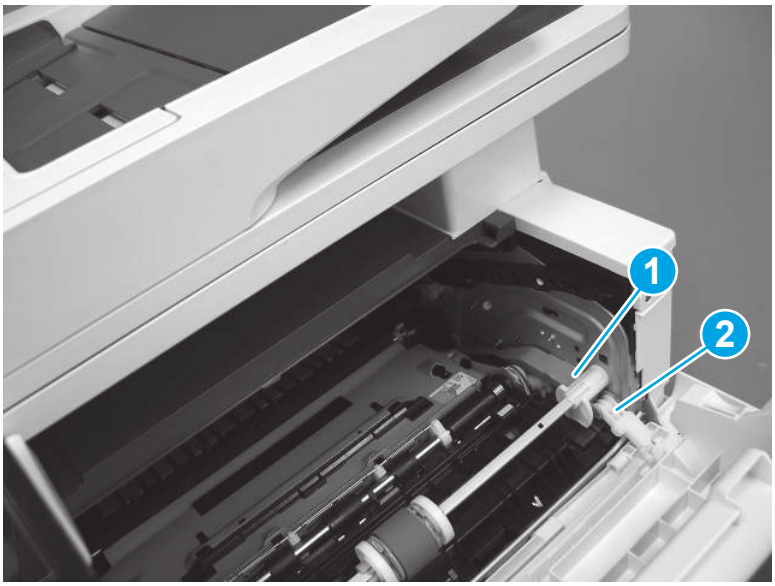
⚠ CAUTION: Be careful, the tab (callout 1) can be easily broken.

Figure 1-176 Remove the guide



d. Use a small flat-blade screwdriver to gently pry the white-plastic door arm (callout 1) off of the gray-plastic pressure-release link (callout 2) to release the door arm.

Figure 1-177 Release the pressure-release link



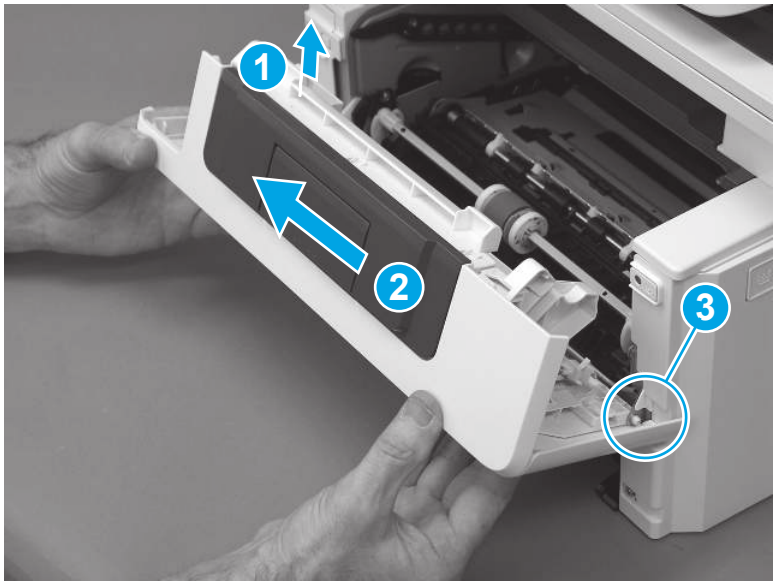
e. With the door in the partially closed position, slightly raise the left end (callout 1; raise it over the sheet-metal hinge boss), and then slide the door to the left (callout 2) to release the right hinge (callout 3).

⚠ CAUTION: The door is still attached to the printer by the left-side retainer arm. Do not attempt to completely remove the door.

Reinstallation tip: When reinstalling the door, there are two right-side hinge pins (not shown in callout 3).

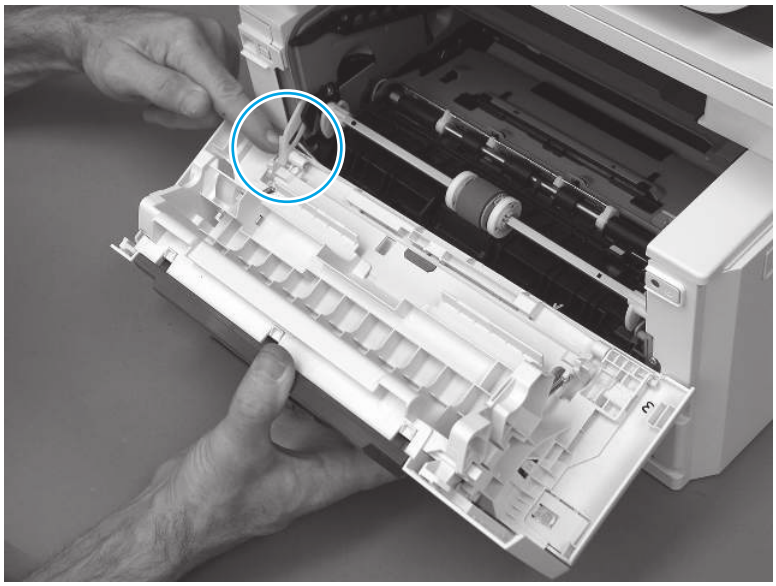
Keep a finger pressed on the left-side retainer arm so that it does not disengage from the door.

Figure 1-178 Release the door



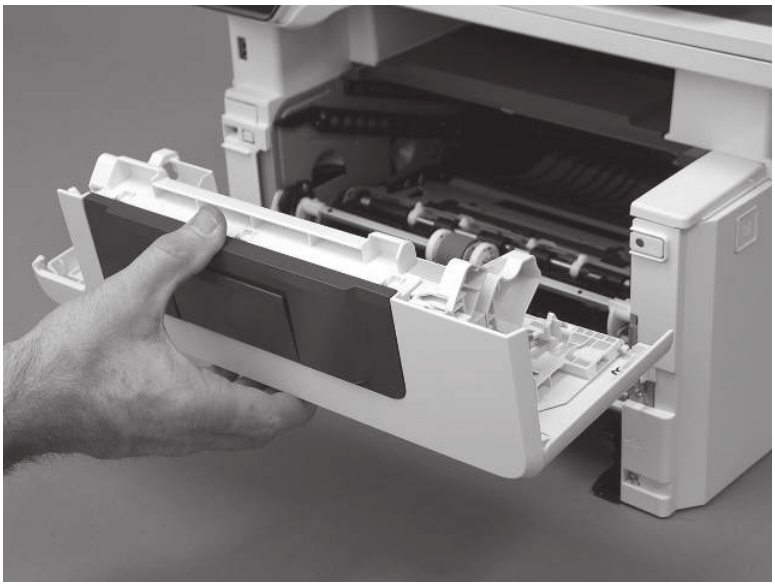
f. Rotate the door away from the printer until the keyed pin on the left-side retainer arm can disengage from the door.

Figure 1-179 Release the left-side retainer arm



g. Remove the door.

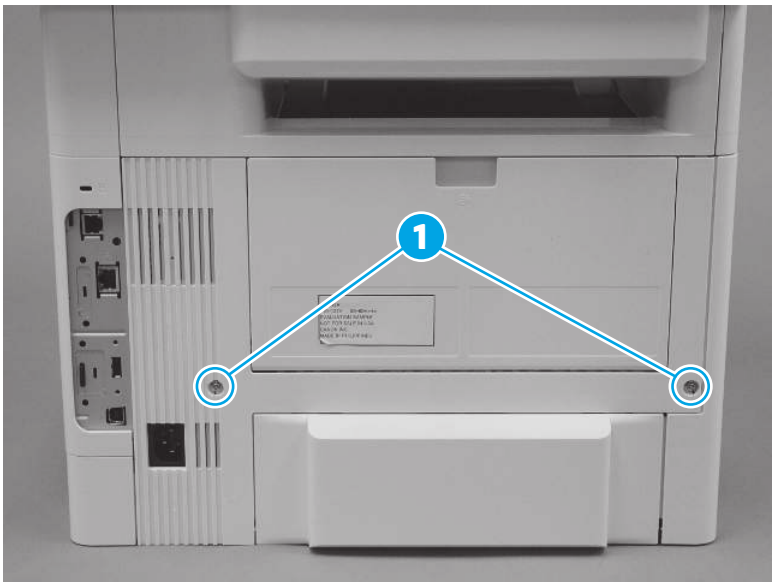
Figure 1-180 Remove the door



4. Remove the rear door assembly.

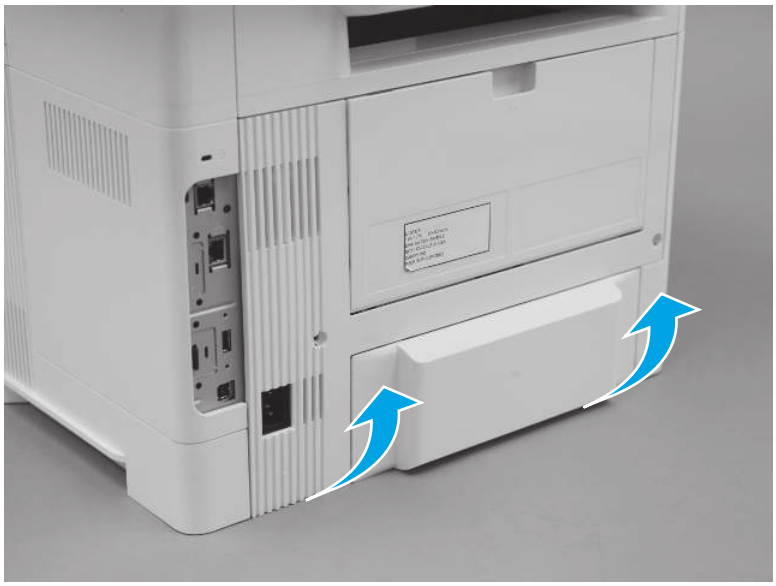
a. At the rear of the printer, remove two screws (callout 1).

Figure 1-181 Remove two screws



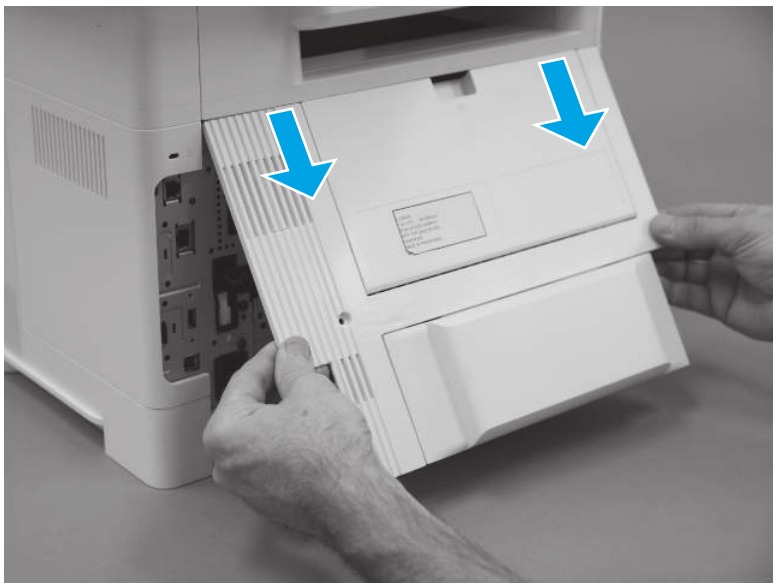
b. Rotate the bottom edge of the assembly away from the printer to release it.

Figure 1-182 Rotate the bottom of the cover



c. Pull down on the assembly to remove it.

Figure 1-183 Remove the cover



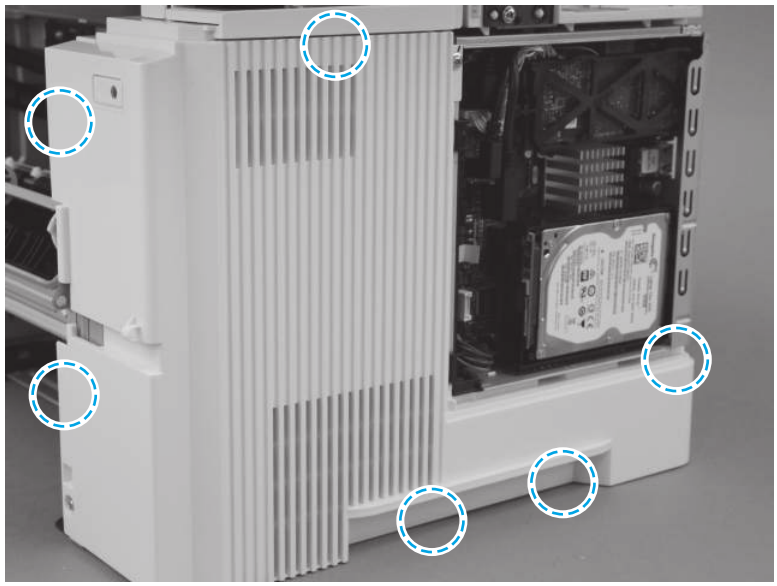
5. Remove the right cover.

IMPORTANT: The black-plastic cassette front and rear guides (located inside the tray cavity) can be easily dislodged. Do not lose the guides when the cover is removed or installed.

An MFP printer is shown in this section. However, the procedure is correct for all printer models.

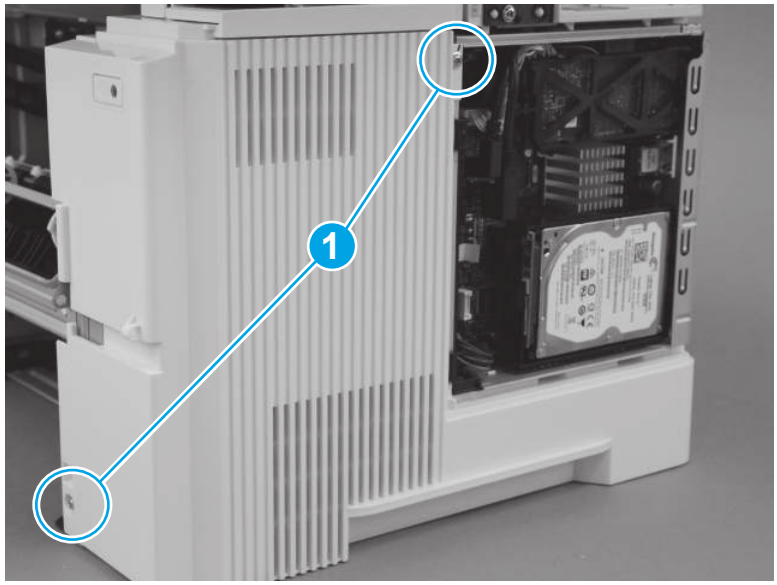
a. Before proceeding, take note of the location of the tabs and bosses on the inside of the cover.

Figure 1-184 Locate the tabs and bosses



b. Remove two screws (callout 1).

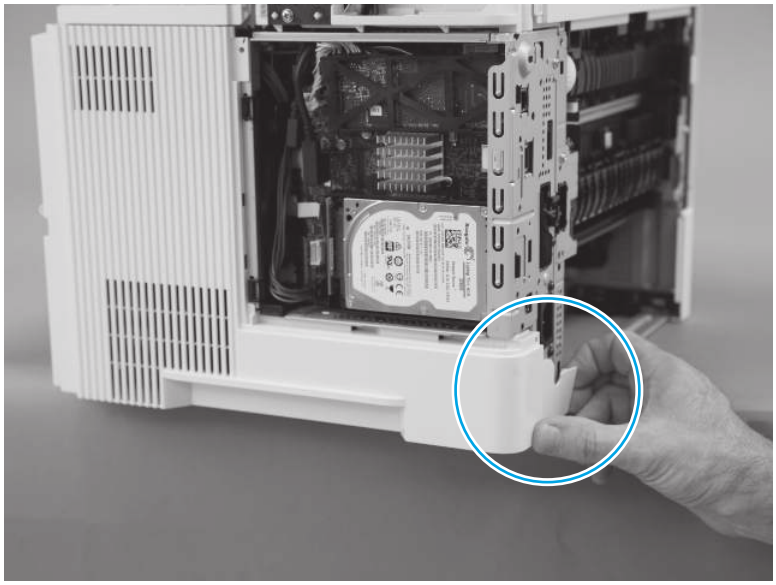
Figure 1-185 Remove two screws



c. At the rear of the printer, release one boss.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

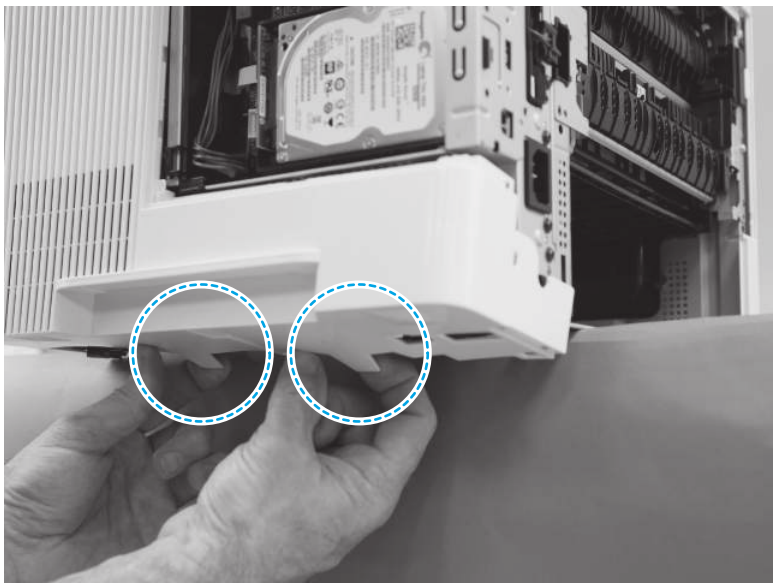
Figure 1-186 Release one boss



d. At the bottom edge of the cover, release two bosses.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

Figure 1-187 Release two bosses

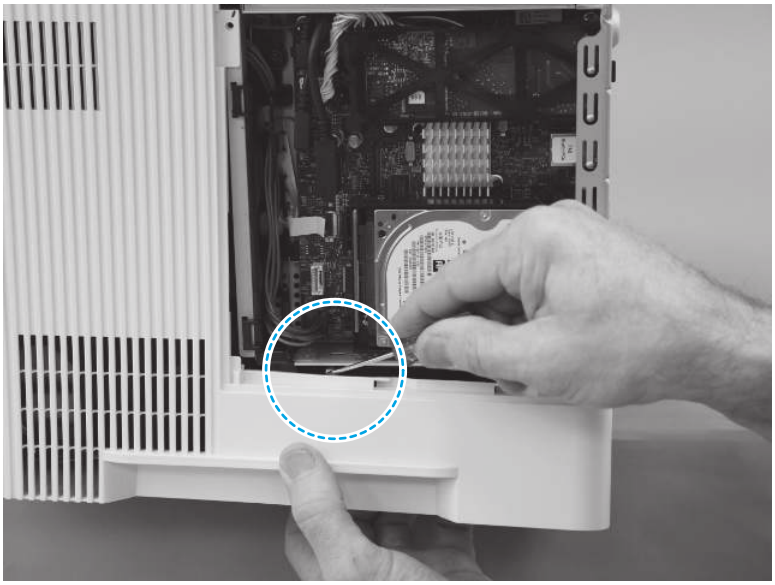


e. Near the formatter, release one tab.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

TIP: Hold the bottom of the cover away from the printer, and then use a small flat-blade screw driver to easily release this tab.

Figure 1-188 Release one tab

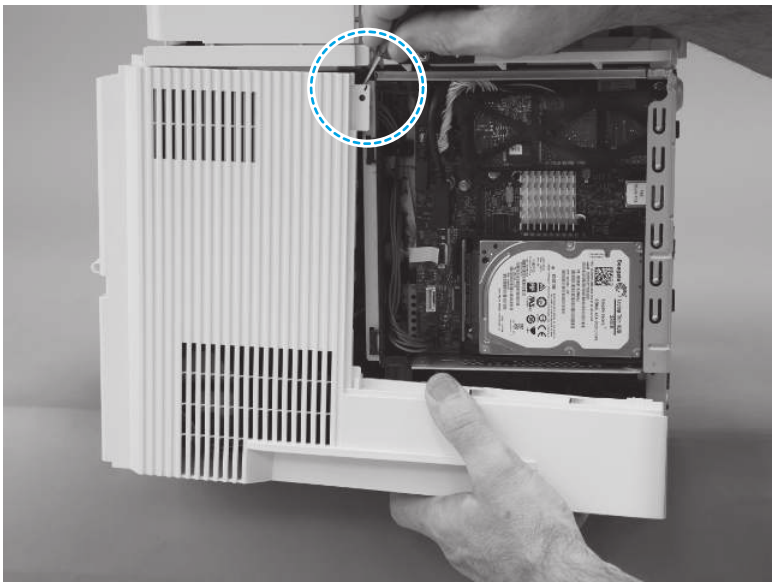


f. At the top rear edge of the cover, release one tab.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

TIP: Use a small flat-blade screw driver to easily release this tab.

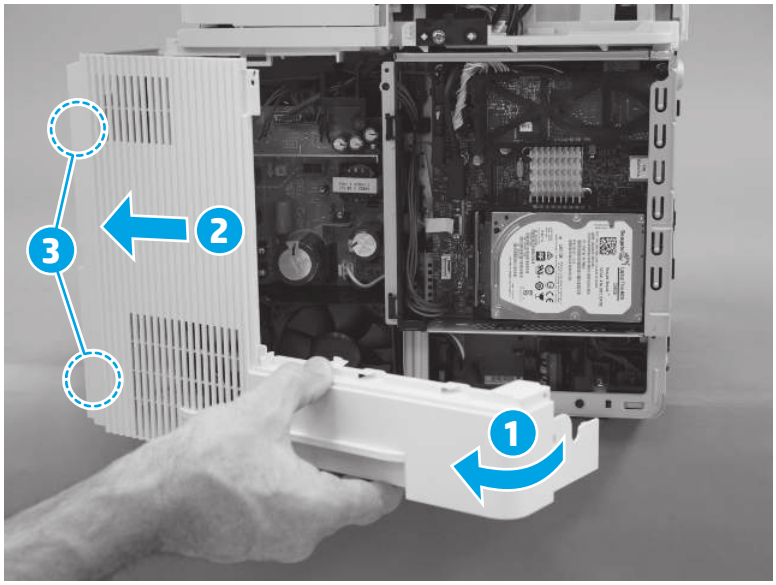
Figure 1-189 Release one tab



g. Rotate the rear of the cover away from the printer (callout 1), slide the cover toward the front of the printer (callout 2) to release two bosses (callout 3), and then remove the cover.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

Figure 1-190 Remove the cover



6. Unpack the replacement assembly.

   a. Dispose of the defective part.

   NOTE: HP recommends responsible disposal of the defective part.

   http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

   b. Unpack the replacement part from the packaging.

   CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

   If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

   IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

   c. To install an assembly, reverse the removal steps.

   NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Removal and replacement: Left cover

Learn how to remove and replace the left cover

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the left cover.

Mean time to repair: 8 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

> ⚠ **WARNING!** To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-20 Part information

Part number	Part description
RM2-5727-000CN	Left cover

Required tools

- #2 Phillips screwdriver with a magnetic tip and a 152 mm (6 in) shaft length

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

No post service test is available for this assembly.

1. Remove the tray.

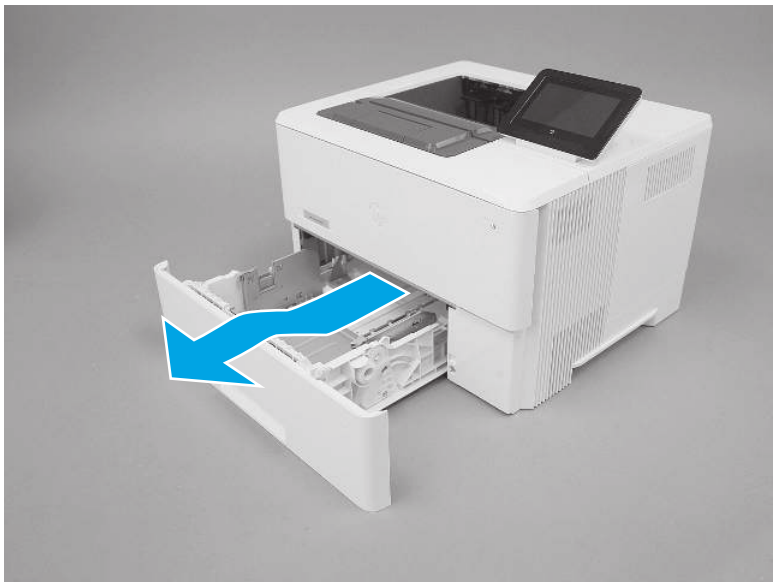
a. Pull the tray straight out of the printer until it stops.

Figure 1-191 Pull the tray out until it stops

b. Lift the front of the tray, and then pull it out of the printer to remove it.

NOTE: If the tray has Fixed Tray Guides installed and are still required, move the hardware to new tray. If necessary, order new kit: 3GY19-67901 Kit-Fixed Tray Guide. Only one kit required per engine.

Figure 1-192 Release and remove the tray



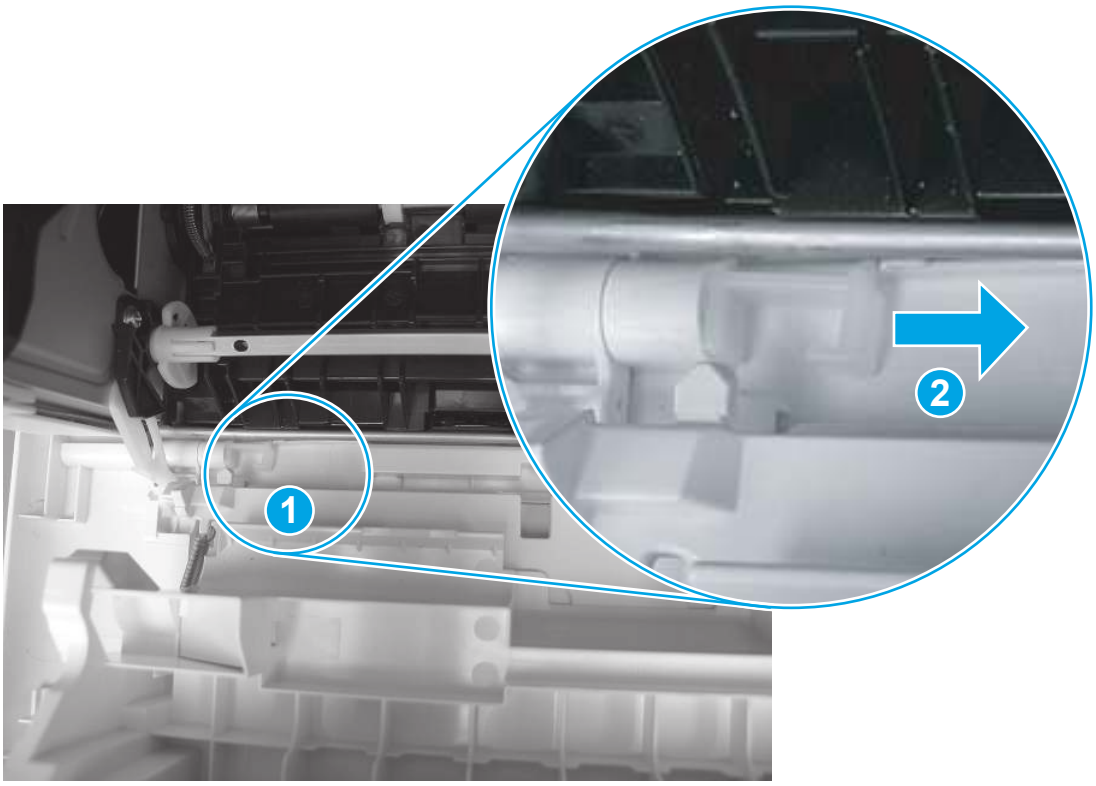
2. Remove the cartridge door assembly.

NOTE: If the toner cartridge was not removed prior to servicing the printer, remove it now.

a. Release the support shaft (callout 1), and then slide it toward the center of the door (callout 2).

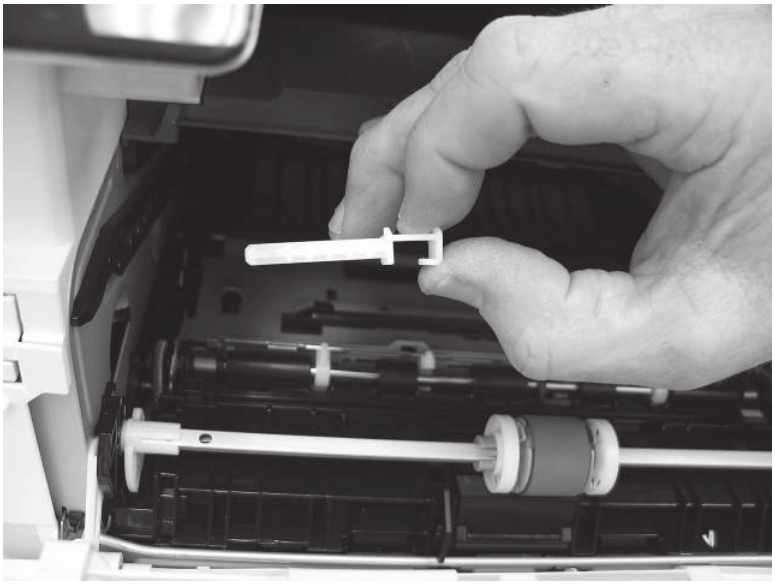
TIP: It might be easier to release the support shaft by using a small flat-blade screwdriver.

Figure 1-193 Release the support shaft



b. Remove the support shaft.

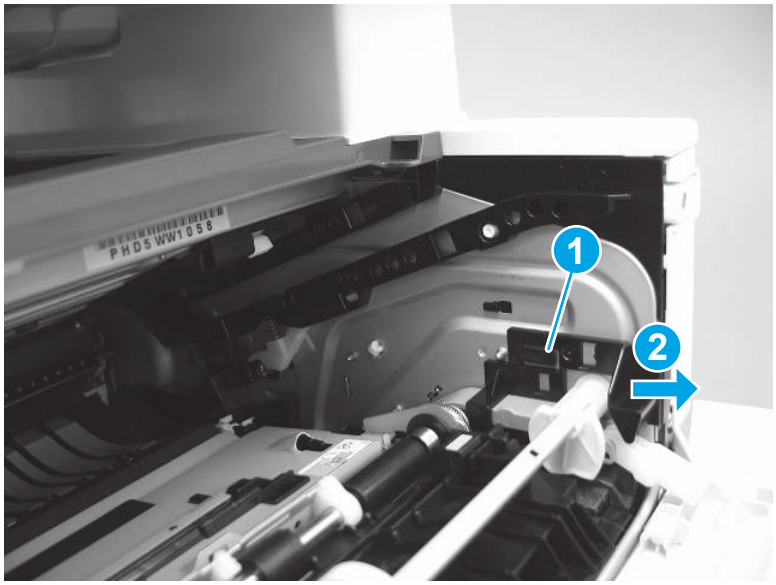
Figure 1-194 Remove the support shaft



c. Release one tab (callout 1), and then slide the guide out of the printer (callout 2).

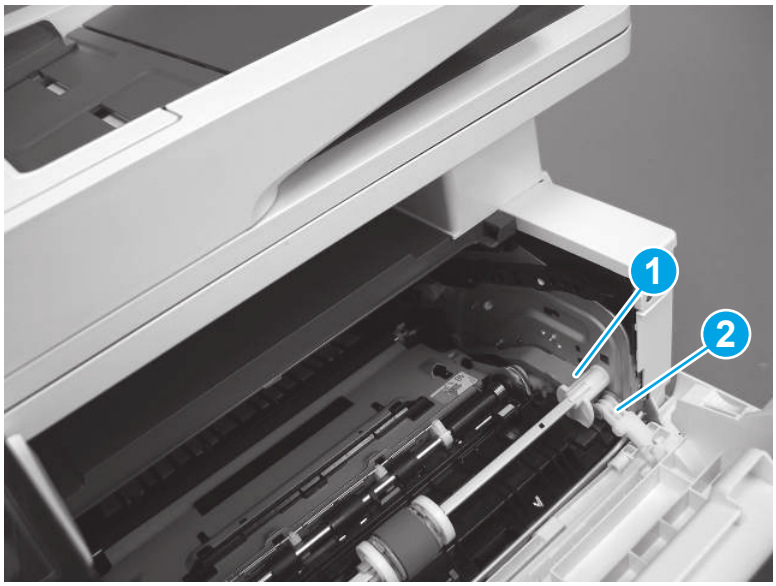
⚠ CAUTION: Be careful, the tab (callout 1) can be easily broken.

Figure 1-195 Remove the guide



d. Use a small flat-blade screwdriver to gently pry the white-plastic door arm (callout 1) off of the gray-plastic pressure-release link (callout 2) to release the door arm.

Figure 1-196 Release the pressure-release link



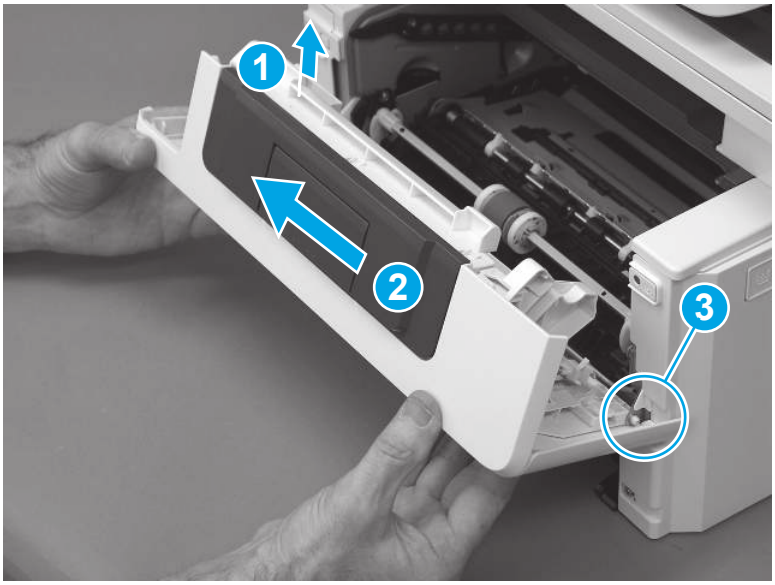
e. With the door in the partially closed position, slightly raise the left end (callout 1; raise it over the sheet-metal hinge boss), and then slide the door to the left (callout 2) to release the right hinge (callout 3).

⚠ CAUTION: The door is still attached to the printer by the left-side retainer arm. Do not attempt to completely remove the door.

Reinstallation tip: When reinstalling the door, there are two right-side hinge pins (not shown in callout 3).

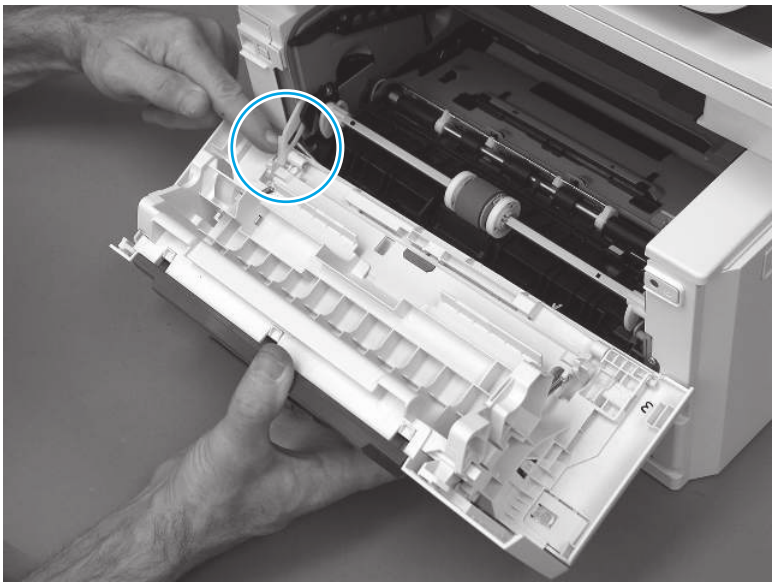
Keep a finger pressed on the left-side retainer arm so that it does not disengage from the door.

Figure 1-197 Release the door



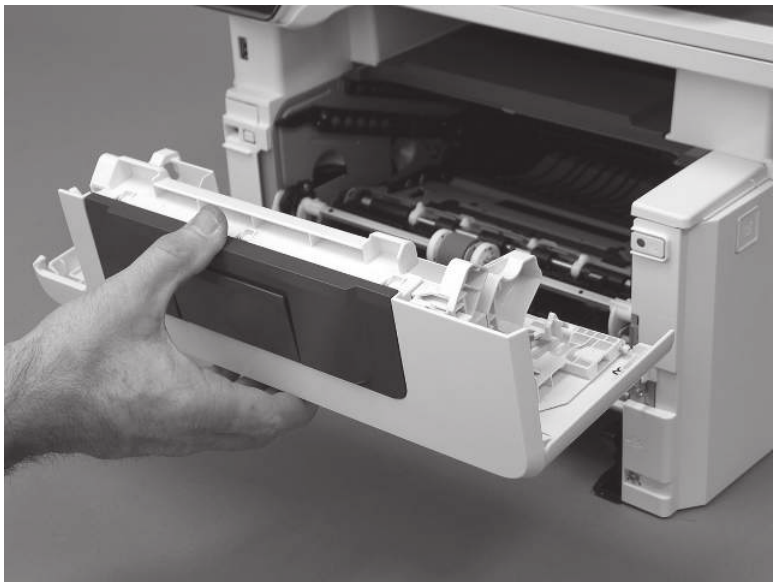
f. Rotate the door away from the printer until the keyed pin on the left-side retainer arm can disengage from the door.

Figure 1-198 Release the left-side retainer arm



g. Remove the door.

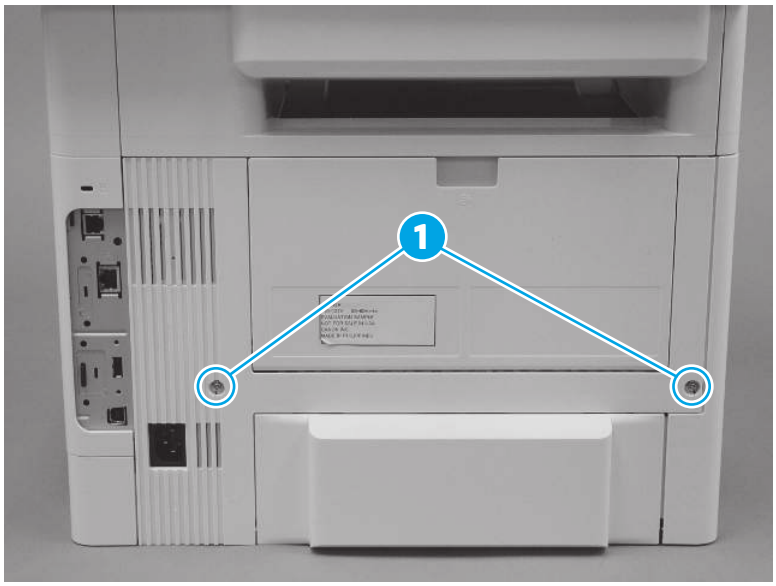
Figure 1-199 Remove the door



3. Remove the rear door assembly.

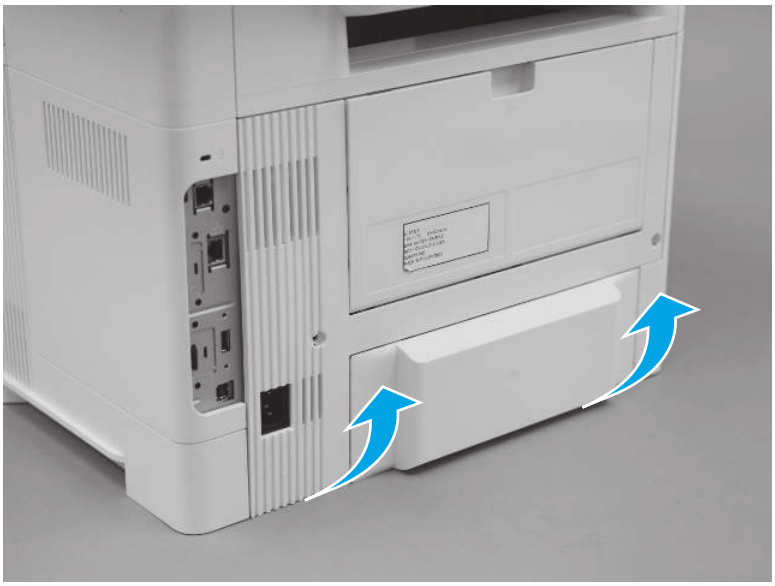
a. At the rear of the printer, remove two screws (callout 1).

Figure 1-200 Remove two screws



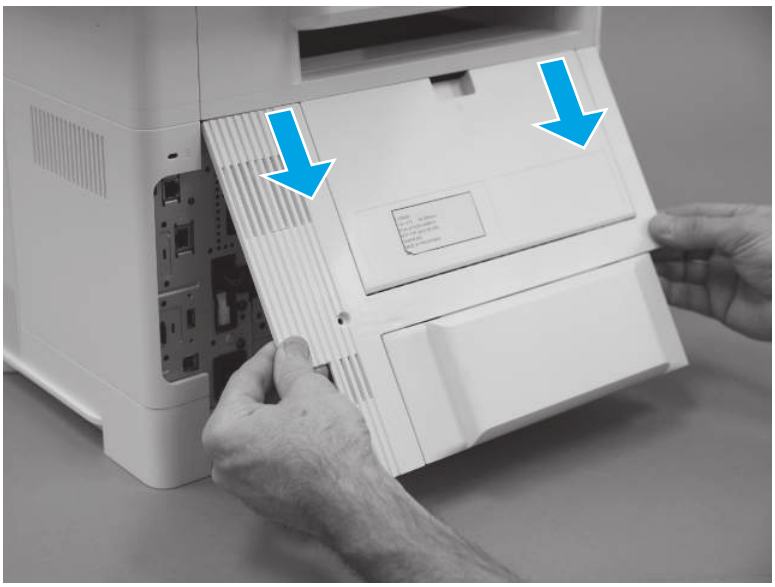
b. Rotate the bottom edge of the assembly away from the printer to release it.

Figure 1-201 Rotate the bottom of the cover



c. Pull down on the assembly to remove it.

Figure 1-202 Remove the cover



4. Remove the left cover.

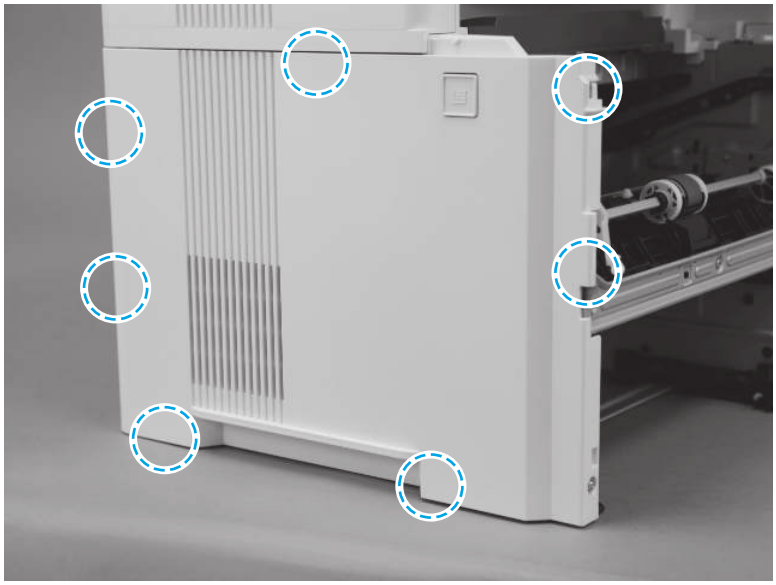
IMPORTANT: The black-plastic cassette front and rear guides (located inside the tray cavity) can be easily dislodged. Do not lose the guides when the cover is removed or installed.

NOTE: An MFP printer is shown in this section. However, the procedure is correct for all printer models.

a. Before proceeding, take note of the location of the tabs and bosses on the inside of the cover.

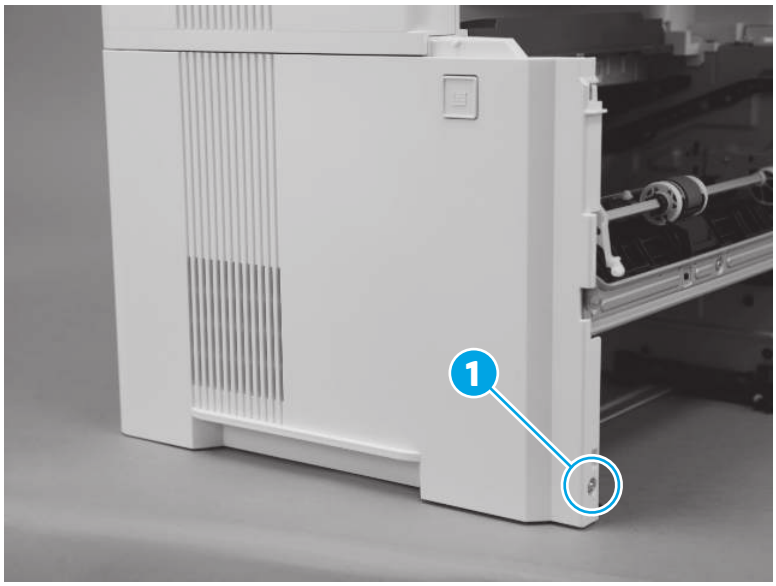
Reinstallation tip: When reinstalling the cover, take note of the location of the tabs and bosses on the inside of the cover.

Figure 1-203 Locate of the tabs and bosses



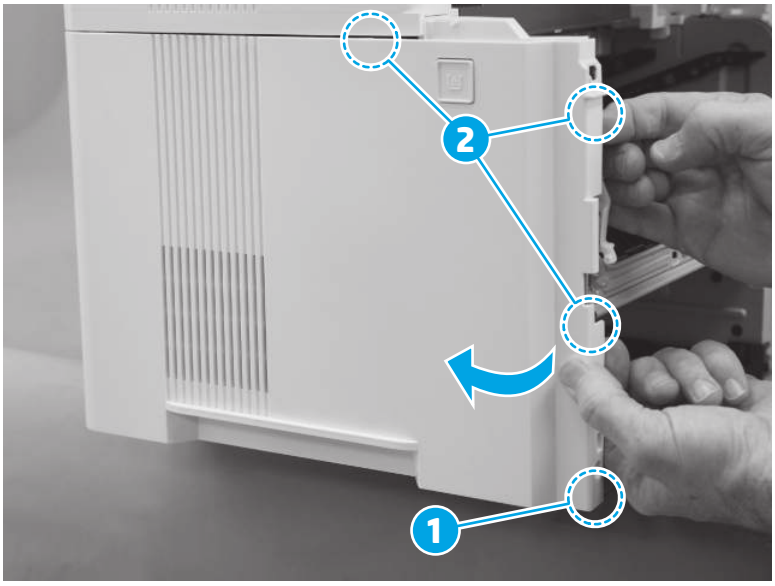
b. Remove one screw (callout 1).

Figure 1-204 Remove one screw



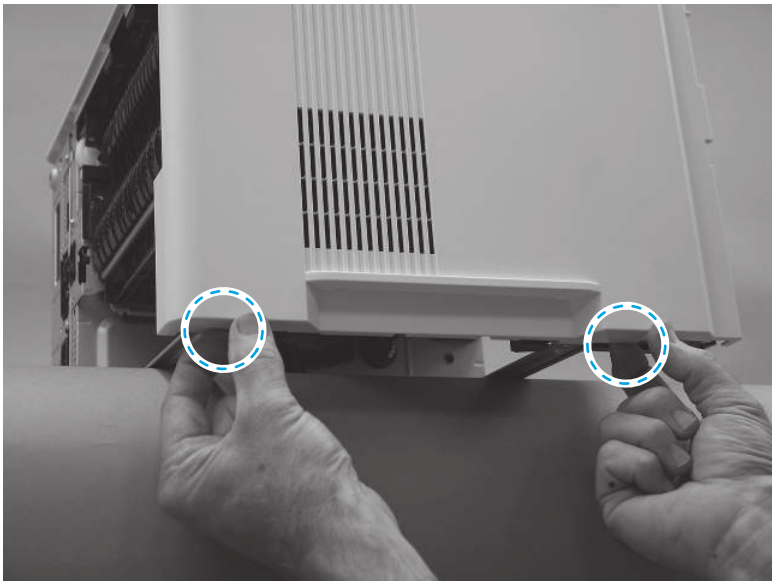
c. At the front of the printer, release one boss (callout 1), and then rotate the front edge of the cover away from the printer to release three tabs (callout 2).

Figure 1-205 Release one boss and three tabs



d. At the bottom edge of the cover, release two tabs.

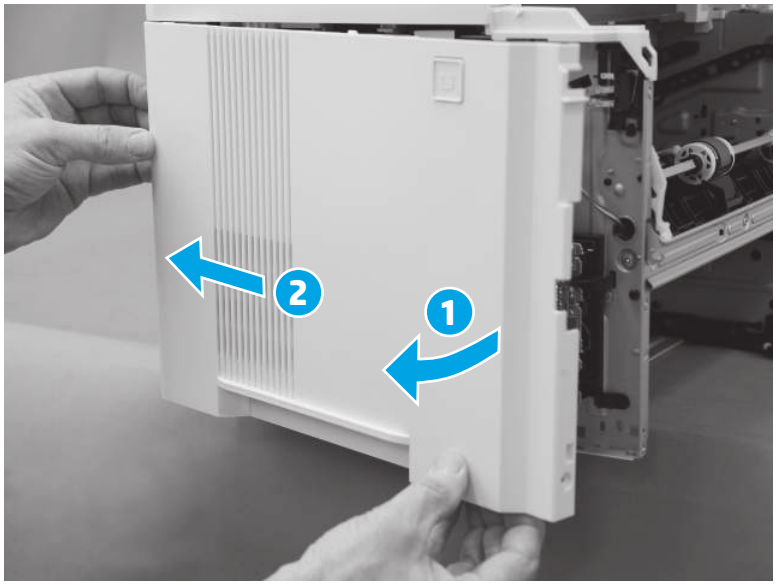
Figure 1-206 Release two tabs



e. Continue to rotate the front edge of the cover away from the printer (callout 1), and then slide the cover toward the rear of the printer (callout 2) to remove it.

NOTE: If the cover is difficult to rotate or slide as shown below, make sure that the bottom tabs (released in the previous step) are completely disengaged from the chassis.

Figure 1-207 Remove the cover



5. Unpack the replacement assembly.

   a. Dispose of the defective part.

   NOTE: HP recommends responsible disposal of the defective part.

   http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

   b. Unpack the replacement part from the packaging.

   CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

   If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

   IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

   c. To install an assembly, reverse the removal steps.

   NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Removal and replacement: Stapler door or stapler blank cover (M527/E52545/M528/E52645)

Learn how to remove and replace the stapler door or stapler blank cover.

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the stapler door or stapler blank cover.

Mean time to repair: 8 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

> ⚠ **WARNING!** To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-21 Part information

Part number	Part description
F2A76-40004	Stapler door (stapler models)
F2A76-40005	Stapler blank cover (non-stapler models)

Required tools

- Small flat-blade screwdriver

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

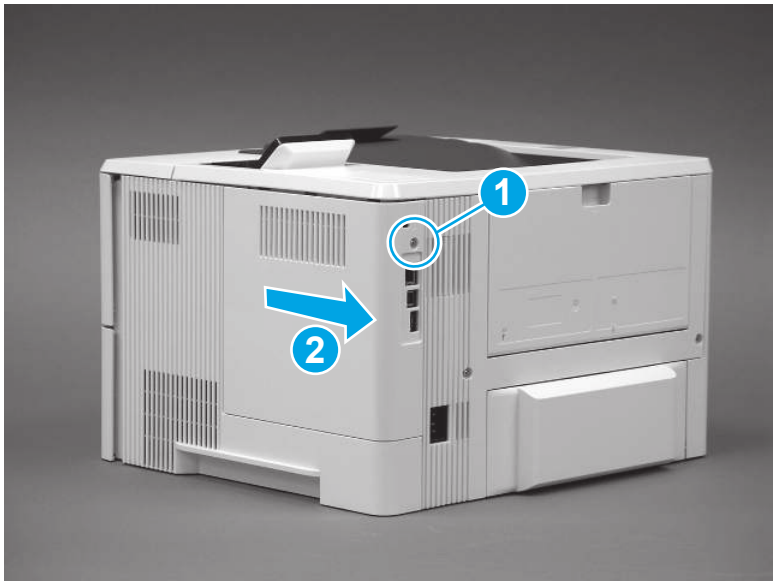
Staple two pages together.

1. Remove the formatter cover.

   ▲ Do one of the following:

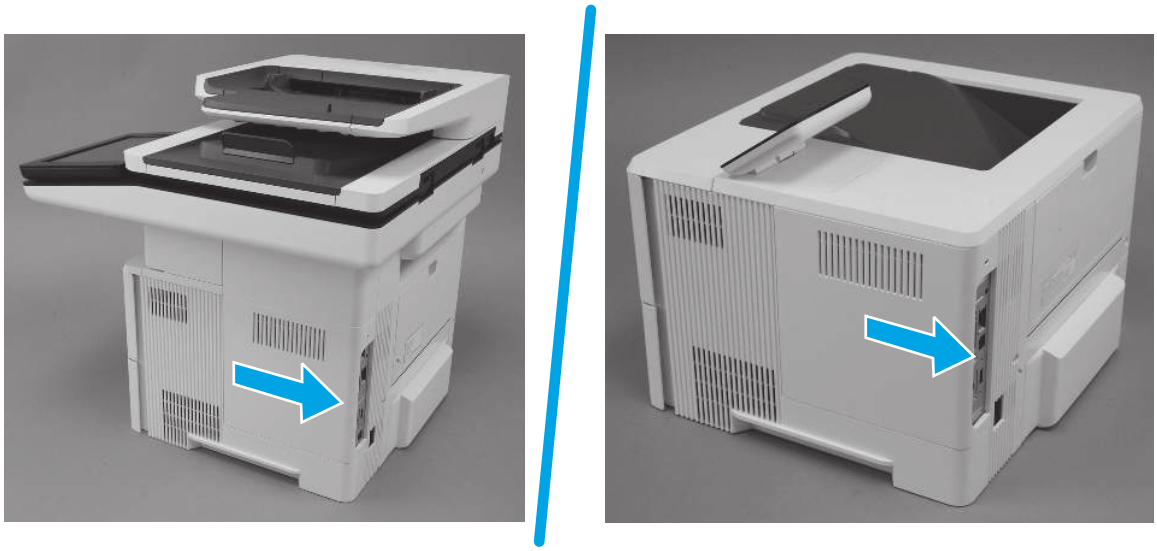
   - M501: Remove one screw (callout 1), and then slide the cover toward the rear of the printer to remove it (callout 2).

Figure 1-208 Remove the formatter cover (M501)



- M506/E50045/M507/E50145/M527/E52545/M528/E52645: Slide the cover toward the rear of the printer to remove it.

Figure 1-209 Remove the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)

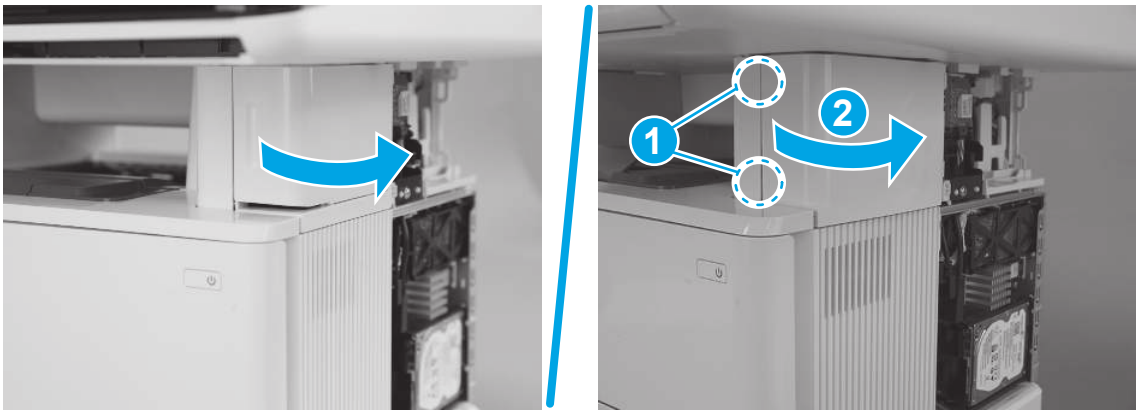


2. Remove the stapler door or stapler blank cover (M527/E52545/M528/E52645).

   a. Do one of the following:

      - Stapler models: Open the stapler door.
      - Non-stapler models: Use a small flat-blade screw driver to release two tabs (callout 1), and then rotate the cover away from the printer (callout 2).

Figure 1-210 Open the door or release the cover



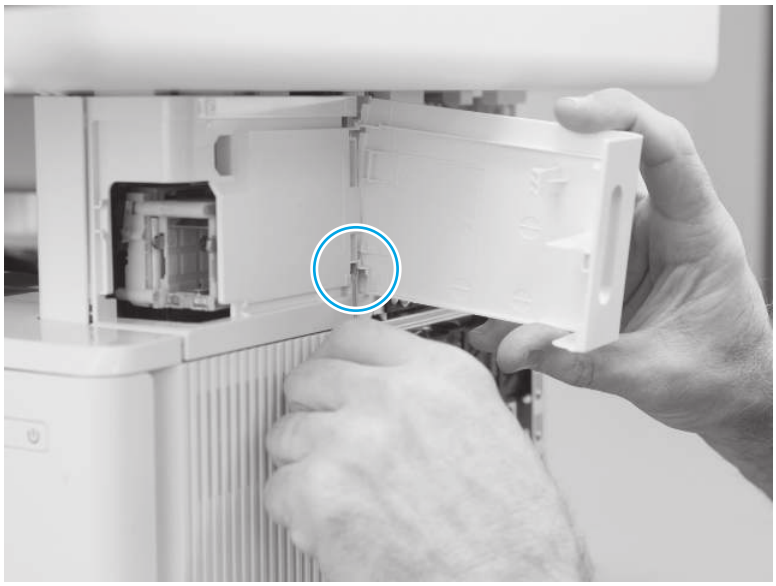
b. Do one of the following:

- **Stapler models**: Use a small flat-blade screwdriver to release the upper hinge.
- **Non-stapler models**: Slide the cover toward the front of the printer to remove it.

Figure 1-211 Release the upper hinge or remove the cover

c. **Stapler models**: Use a small flat-blade screwdriver to release the lower hinge.

Figure 1-212 Release the lower hinge



d. **Stapler models**: Remove the door.

Figure 1-213 Remove the door

3. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Removal and replacement: Stapler stationary (inner) cover (M527/E52545/M528/E52645)

Learn how to remove and replace the cassette stapler stationary (inner) cover.

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the stapler stationary (inner) cover.

Mean time to repair: 8 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

WARNING! To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-22 Part information

Part number	Part description
F2A76-40003	Stapler stationary (inner) cover (stapler models only)

Required tools

- #2 Phillips screwdriver with a magnetic tip and a 152 mm (6 in) shaft length

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

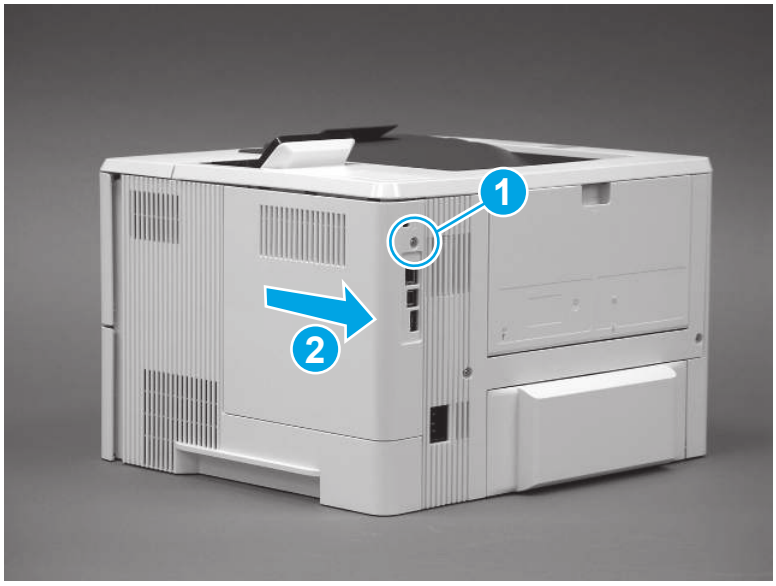
No post service test is available for this assembly.

1. Remove the formatter cover.

   ▲ Do one of the following:

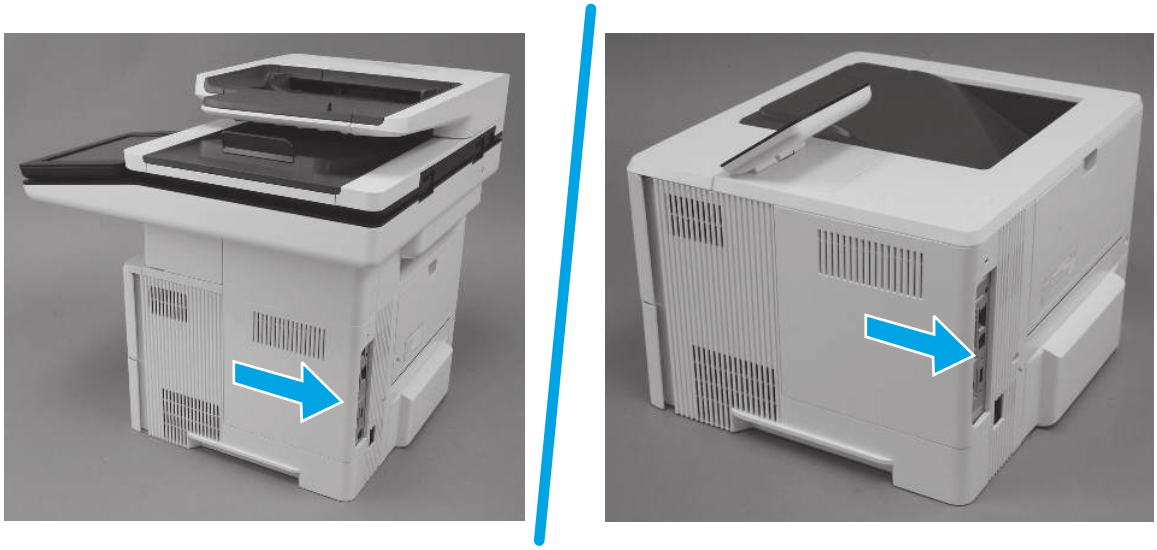
   - M501: Remove one screw (callout 1), and then slide the cover toward the rear of the printer to remove it (callout 2).

     Figure 1-214 Remove the formatter cover (M501)

   - M506/E50045/M507/E50145/M527/E52545/M528/E52645: Slide the cover toward the rear of the printer to remove it.

Figure 1-215 Remove the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)

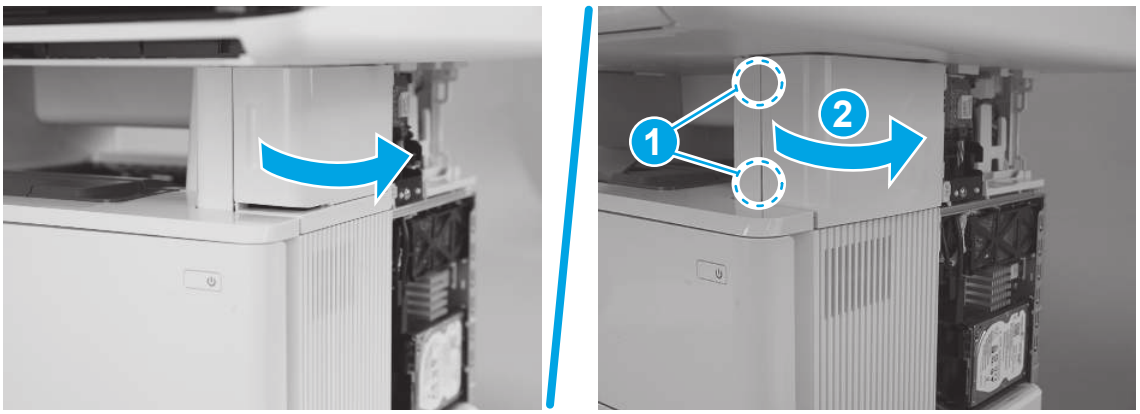


2. Remove the stapler door or stapler blank cover (M527/E52545/M528/E52645).

   a. Do one of the following:

      - **Stapler models**: Open the stapler door.
      - **Non-stapler models**: Use a small flat-blade screw driver to release two tabs (callout 1), and then rotate the cover away from the printer (callout 2).

Figure 1-216 Open the door or release the cover



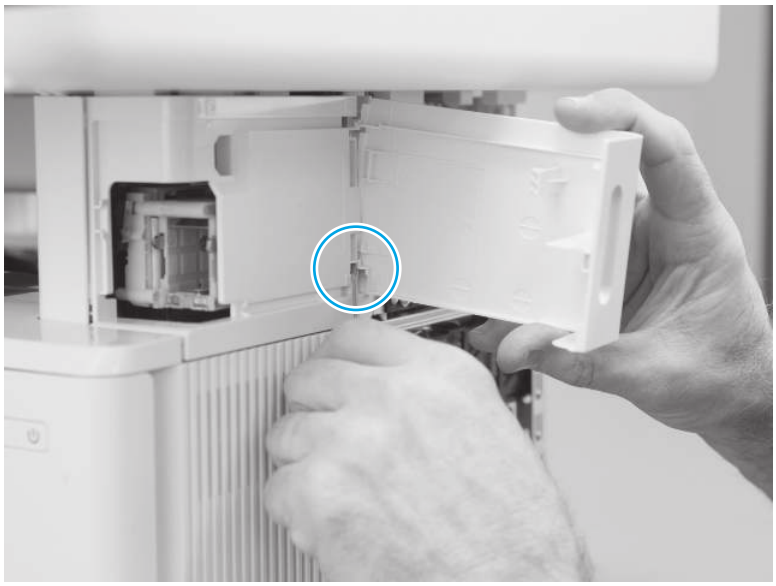
   b. Do one of the following:

      - **Stapler models**: Use a small flat-blade screwdriver to release the upper hinge.
      - **Non-stapler models**: Slide the cover toward the front of the printer to remove it.

Figure 1-217 Release the upper hinge or remove the cover

c. **Stapler models**: Use a small flat-blade screwdriver to release the lower hinge.

Figure 1-218 Release the lower hinge



d. **Stapler models**: Remove the door.

Figure 1-219 Remove the door

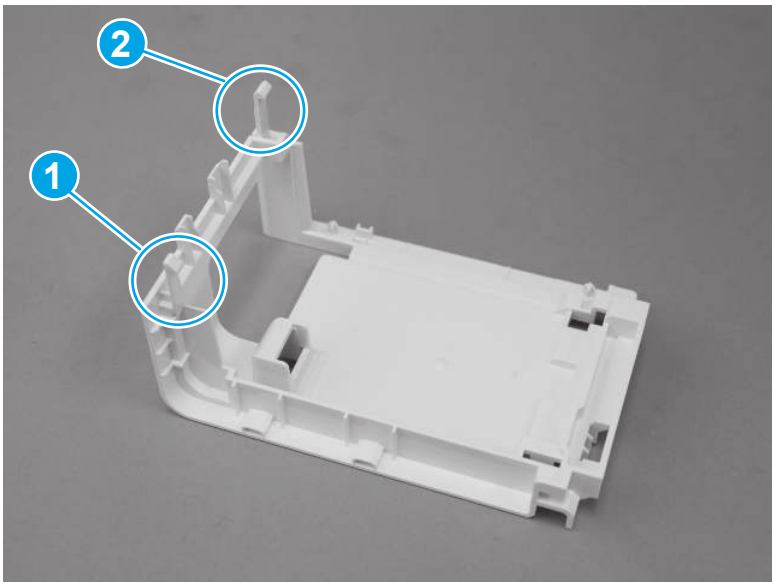
3. Remove the stapler stationary (inner) cover (M527/E52545/M528/E52645).

NOTE: Stapler models only.

a. Before proceeding, take note of the locations of the upper tab (callout 1) and the lower tab (callout 2) on the stapler stationary (inner) cover.

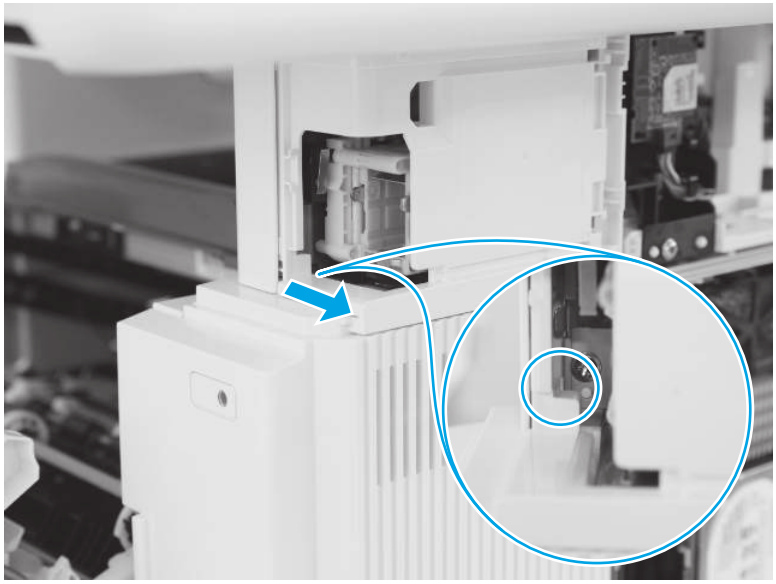
Reinstallation tip: When reinstalling the cover, take note of the location of the tabs.

Figure 1-220 Locate the tabs



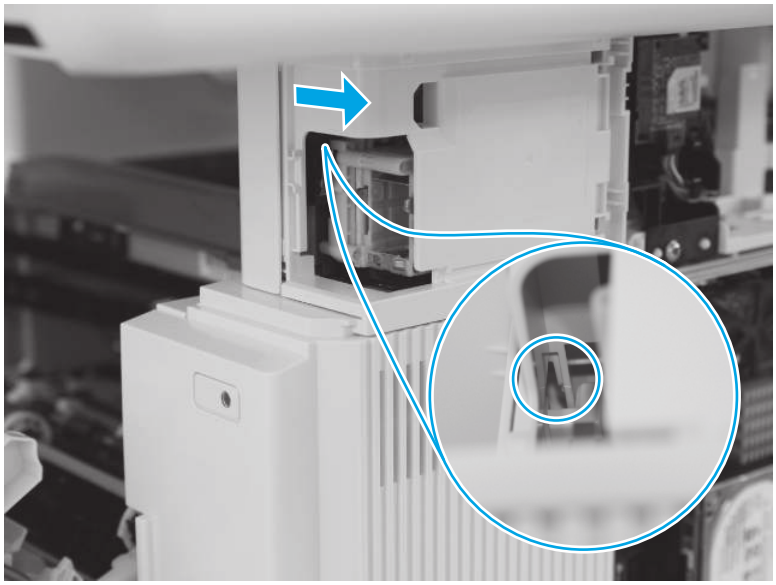
b. Use a long-shaft small flat-blade screwdriver to release the lower tab.

Figure 1-221 Release one tab



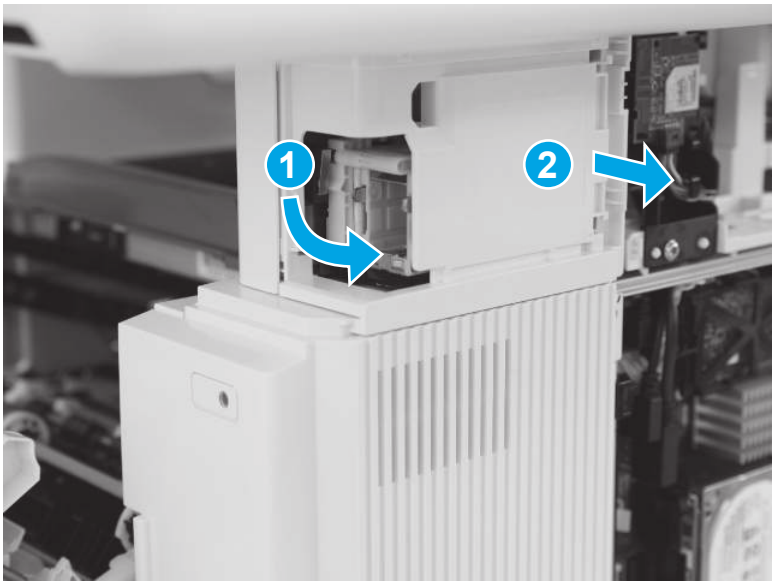
c. Use a long-shaft small flat-blade screwdriver to release the upper tab.

Figure 1-222 Release one tab



d. With the tabs disengaged the front of the cover is released. Rotate the front of the cover away from the printer (callout 1) to release the rear of the cover (callout 2), and then remove it.

Figure 1-223 Remove the cover



4. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Removal and replacement: Top cover (MFP)

Learn how to remove and replace the top cover.

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the top cover.

Mean time to repair: 8 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

> ⚠ **WARNING!** To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-23 Part information

Part number	Part description
RM2-5718-000CN	Top cover (M527/E52545/M528/E52645)

Required tools

- #2 Phillips screwdriver with a magnetic tip and a 152 mm (6 in) shaft length
- Small flat-blade screwdriver

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

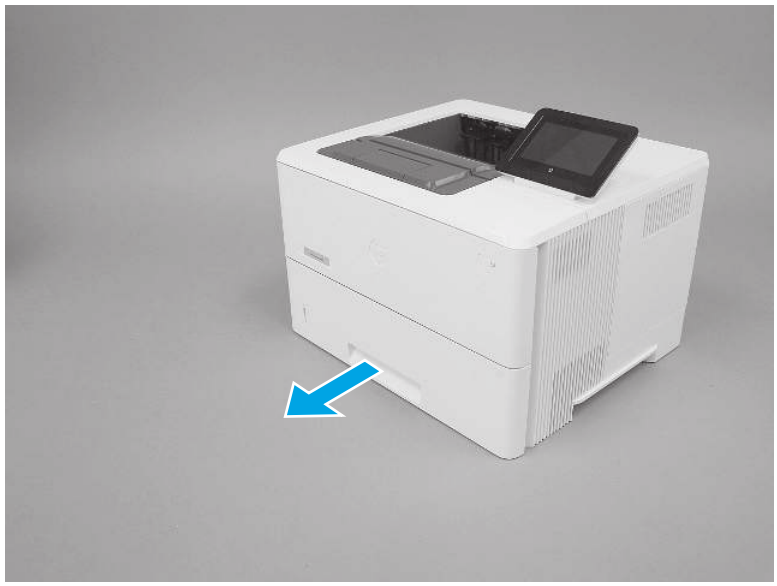
Post service test

No post service test is available for this assembly.

1. Remove the tray.

a. Pull the tray straight out of the printer until it stops.

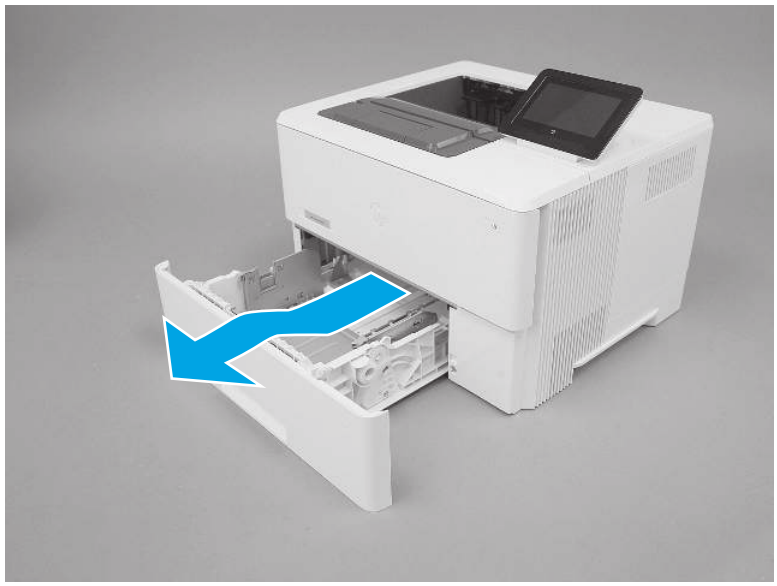
Figure 1-224 Pull the tray out until it stops



b. Lift the front of the tray, and then pull it out of the printer to remove it.

NOTE: If the tray has Fixed Tray Guides installed and are still required, move the hardware to new tray. If necessary, order new kit: 3GY19-67901 Kit-Fixed Tray Guide. Only one kit required per engine.

Figure 1-225 Release and remove the tray

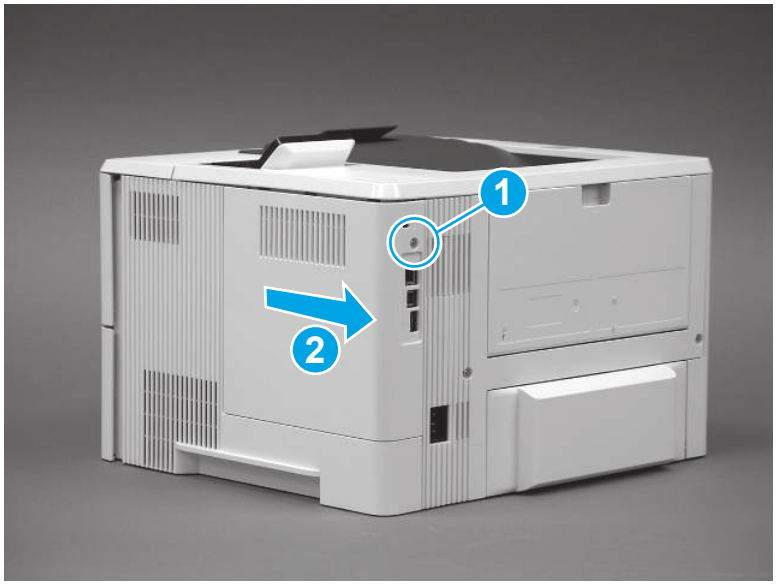


2. Remove the formatter cover.

▲ Do one of the following:

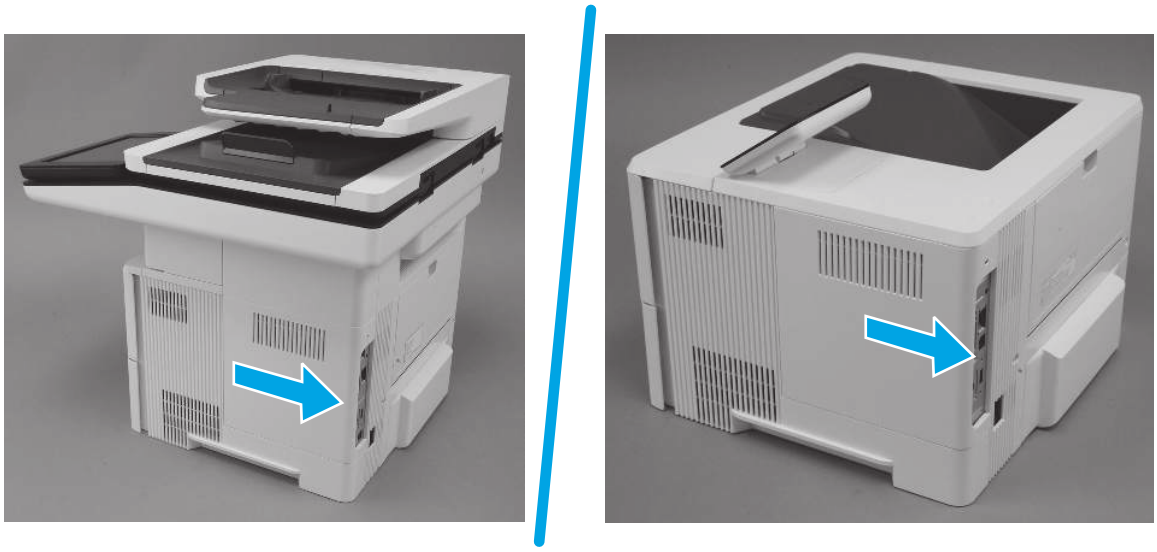
- M501: Remove one screw (callout 1), and then slide the cover toward the rear of the printer to remove it (callout 2).

Figure 1-226 Remove the formatter cover (M501)



- M506/E50045/M507/E50145/M527/E52545/M528/E52645: Slide the cover toward the rear of the printer to remove it.

Figure 1-227 Remove the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)

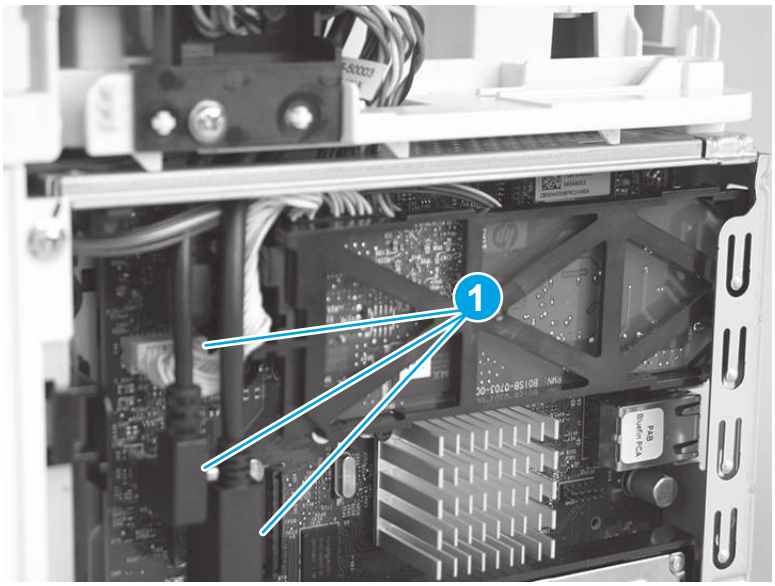


3. Remove the fax PCA (M527/E52545/M528/E52645 fax models).

⚠ CAUTION: ESD-sensitive part.

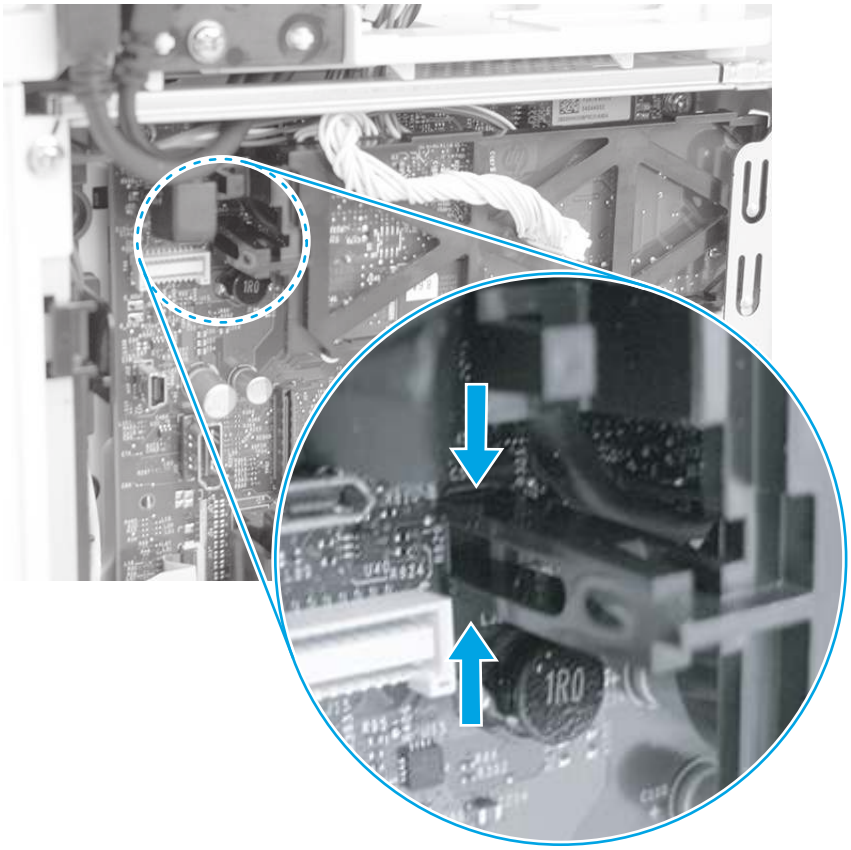
a. Disconnect three connectors (callout 1).

Figure 1-228 Disconnect three connectors



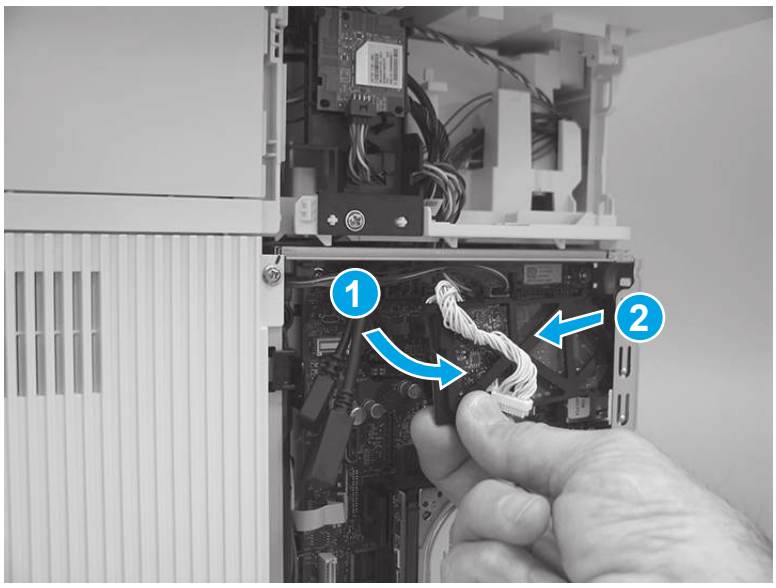
b. Pinch the retainer to release it.

Figure 1-229 Release the fax PCA



c. Rotate the connector end of the fax PCA out and away from the formatter (callout 1), and then slide it as shown (callout 2) to remove it.

Figure 1-230 Remove the fax PCA

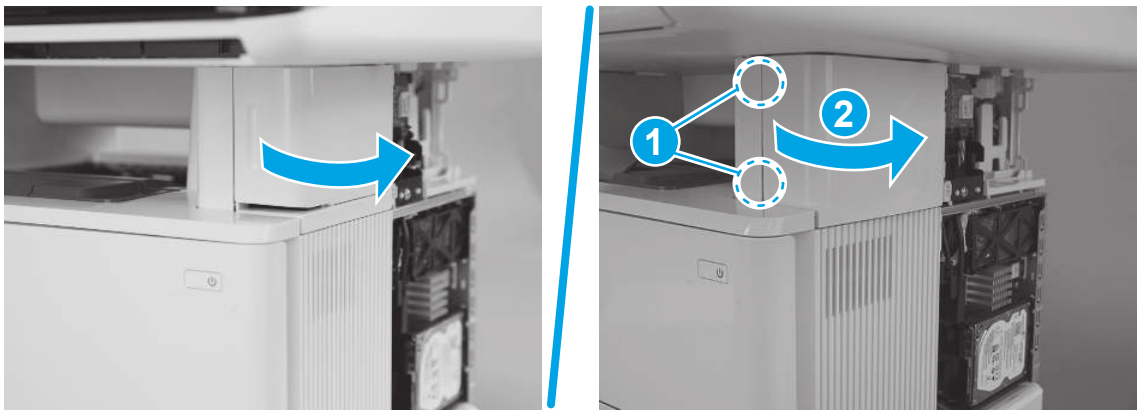


4. Remove the stapler door or stapler blank cover (M527/E52545/M528/E52645).

a. Do one of the following:

- **Stapler models**: Open the stapler door.
- **Non-stapler models**: Use a small flat-blade screw driver to release two tabs (callout 1), and then rotate the cover away from the printer (callout 2).

Figure 1-231 Open the door or release the cover



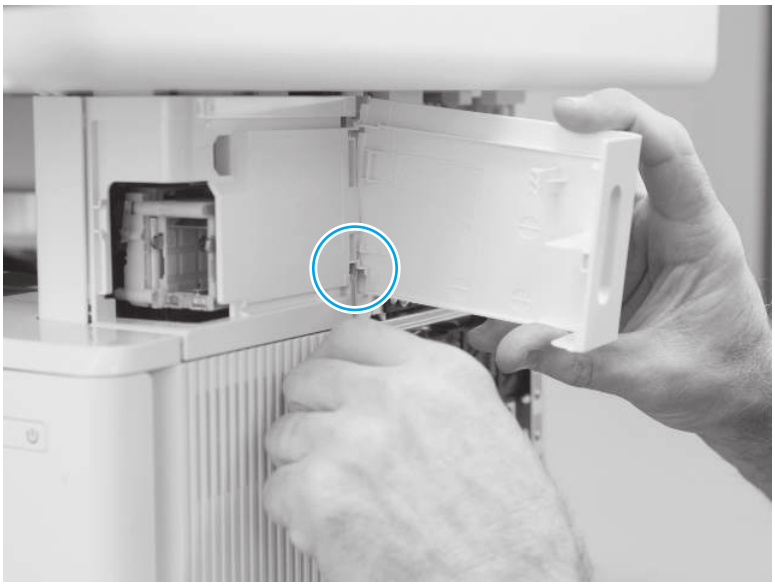
b. Do one of the following:

- **Stapler models**: Use a small flat-blade screwdriver to release the upper hinge.
- **Non-stapler models**: Slide the cover toward the front of the printer to remove it.

Figure 1-232 Release the upper hinge or remove the cover

c. **Stapler models**: Use a small flat-blade screwdriver to release the lower hinge.

Figure 1-233 Release the lower hinge



d. **Stapler models**: Remove the door.

Figure 1-234 Remove the door

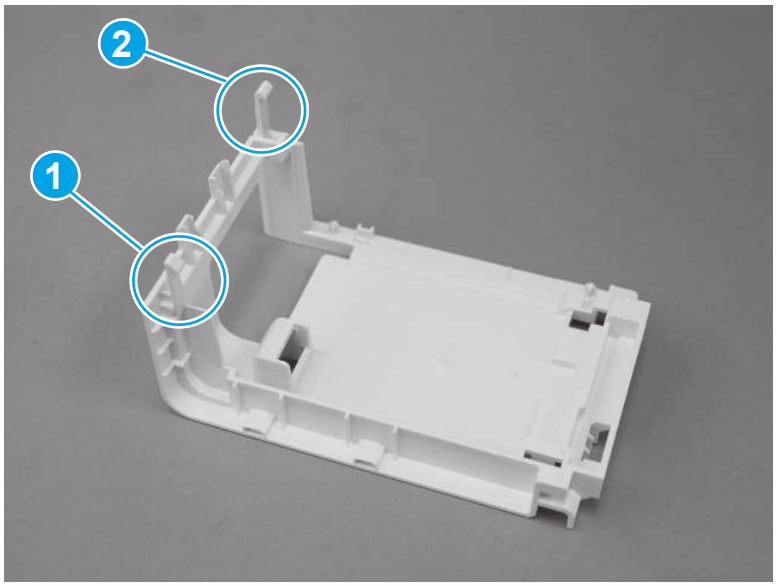
5. Remove the stapler stationary (inner) cover (M527/E52545/M528/E52645).

NOTE: Stapler models only.

a. Before proceeding, take note of the locations of the upper tab (callout 1) and the lower tab (callout 2) on the stapler stationary (inner) cover.

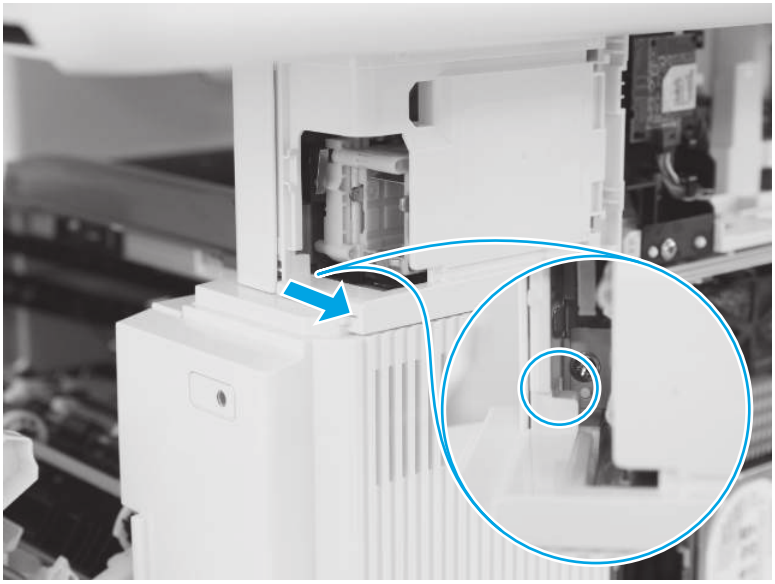
Reinstallation tip: When reinstalling the cover, take note of the location of the tabs.

Figure 1-235 Locate the tabs



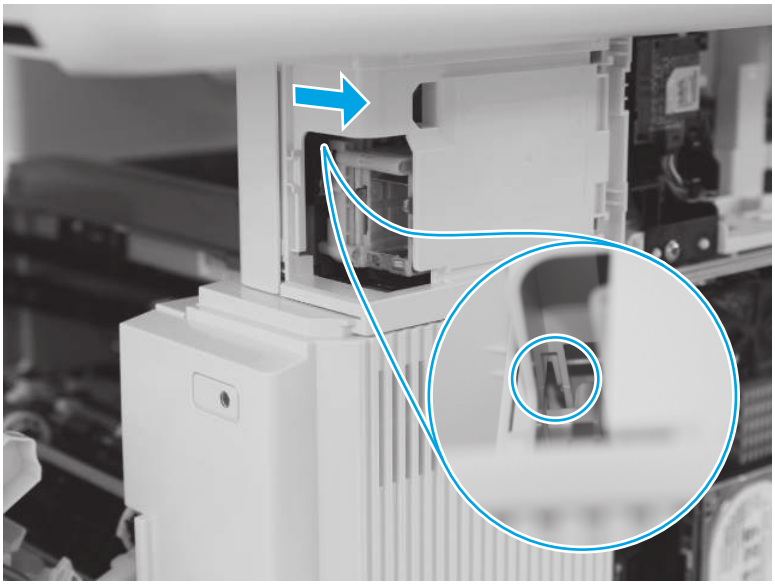
b. Use a long-shaft small flat-blade screwdriver to release the lower tab.

Figure 1-236 Release one tab



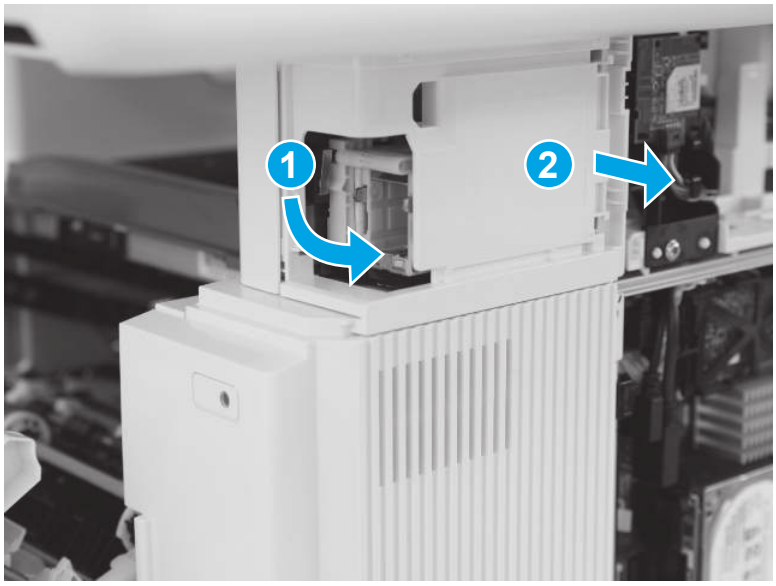
c. Use a long-shaft small flat-blade screwdriver to release the upper tab.

Figure 1-237 Release one tab



d. With the tabs disengaged the front of the cover is released. Rotate the front of the cover away from the printer (callout 1) to release the rear of the cover (callout 2), and then remove it.

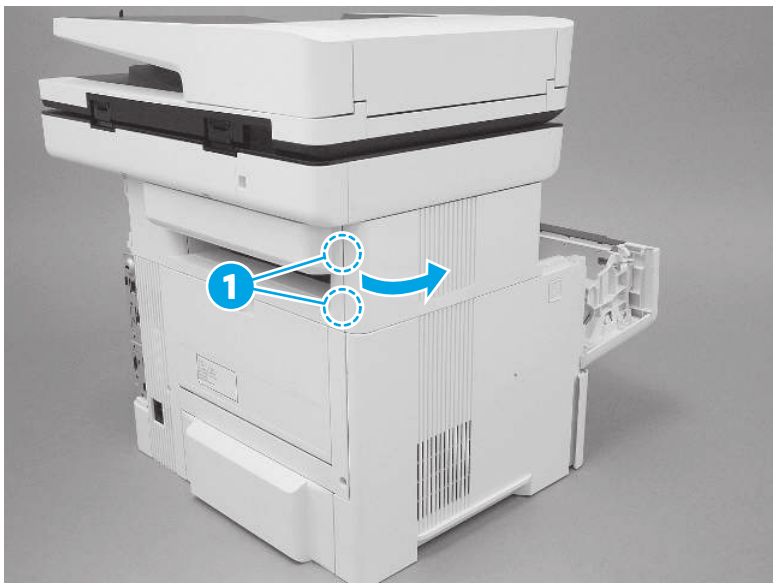
Figure 1-238 Remove the cover



6. Remove the top-left cover (M527/E52545M528/E52645).

a. Open the toner-cartridge door, release two tabs (callout 1), and then rotate the rear edge of the cover away from the printer.

Figure 1-239 Release two tabs



b. Continue to rotate the cover away from the printer to release two more tabs at the middle of the cover.

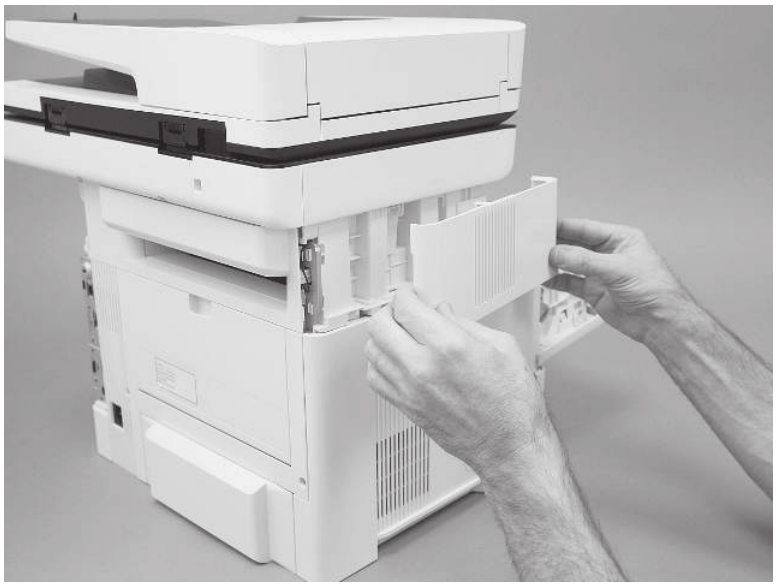
Figure 1-240 Release two tabs

c. Slide the cover toward the rear of the printer to release two bosses at the front of the cover.

Figure 1-241 Slide the cover

d. Remove the cover.

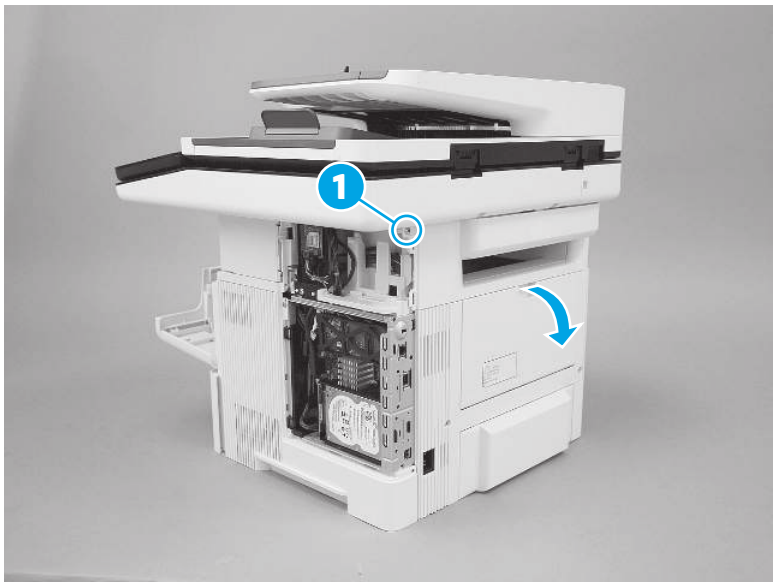
Figure 1-242 Remove the cover



7. Remove the top-rear cover (M527/E52545/M528/E52645).

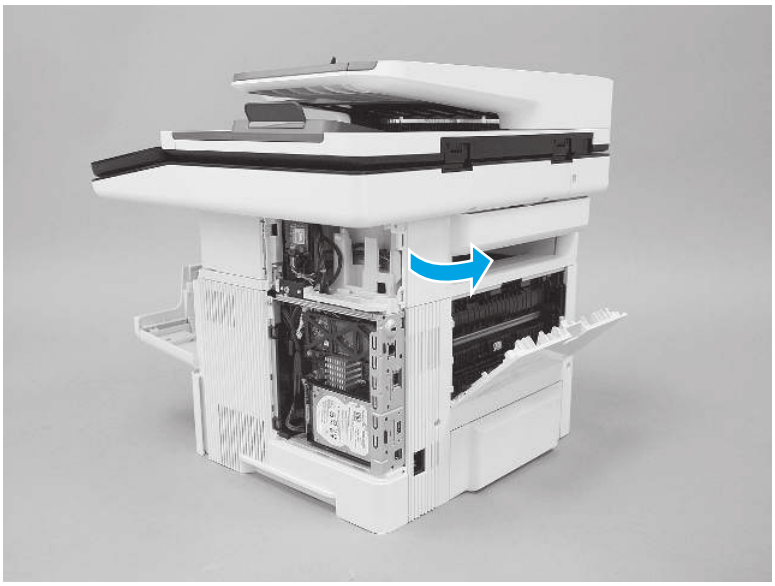
a. Remove one screw (callout 1), and then open the rear door.

Figure 1-243 Remove one screw



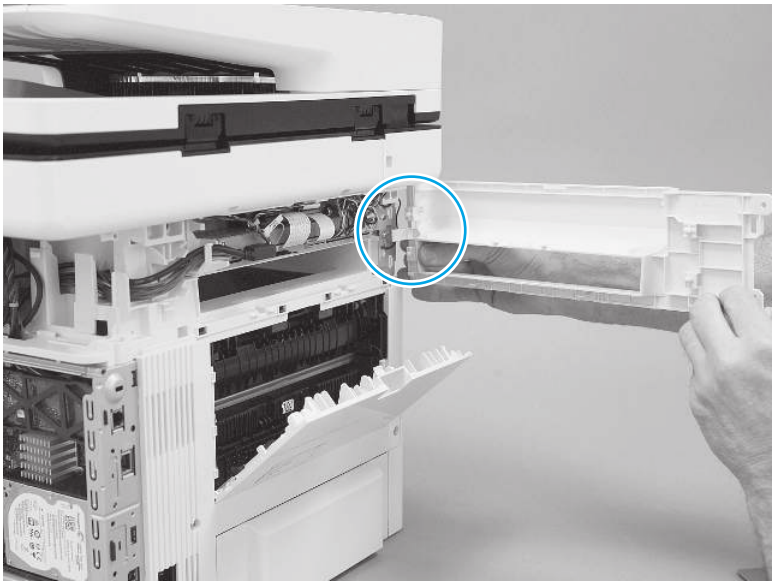
b. Rotate the exposed edge of the cover away from the printer (as shown).

Figure 1-244 Rotate the cover



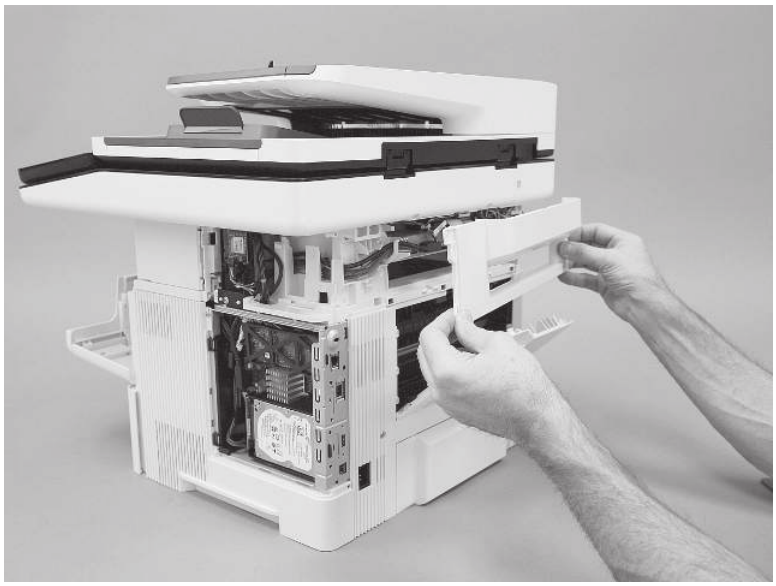
c. Continue to rotate the cover away from the printer to release one boss.

Figure 1-245 Release one boss



d. Remove the cover.

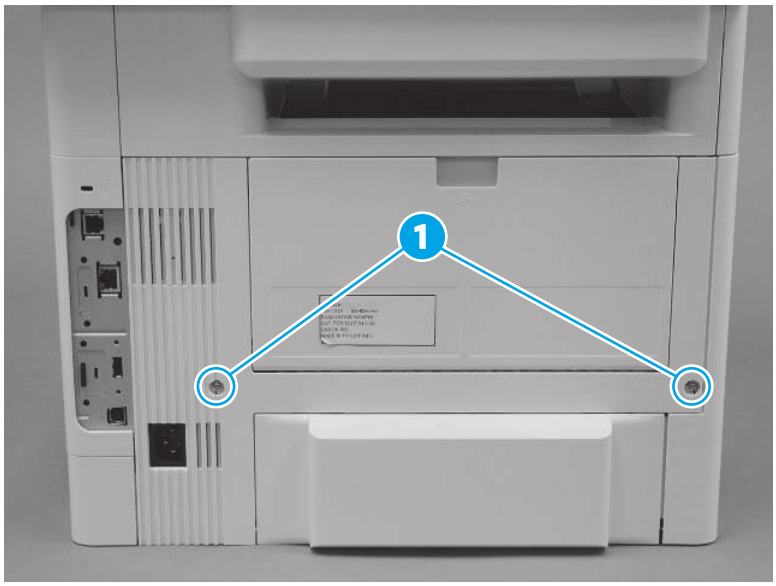
Figure 1-246 Remove the cover



8. Remove the rear door assembly.

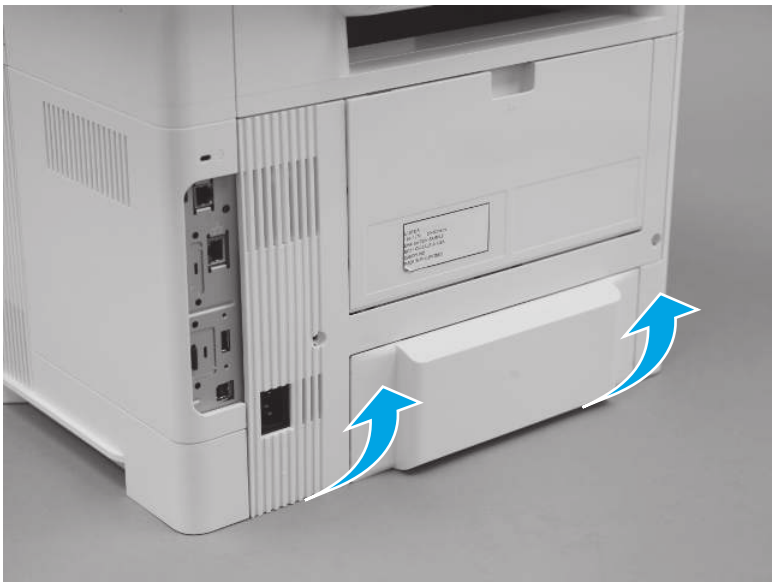
a. At the rear of the printer, remove two screws (callout 1).

Figure 1-247 Remove two screws



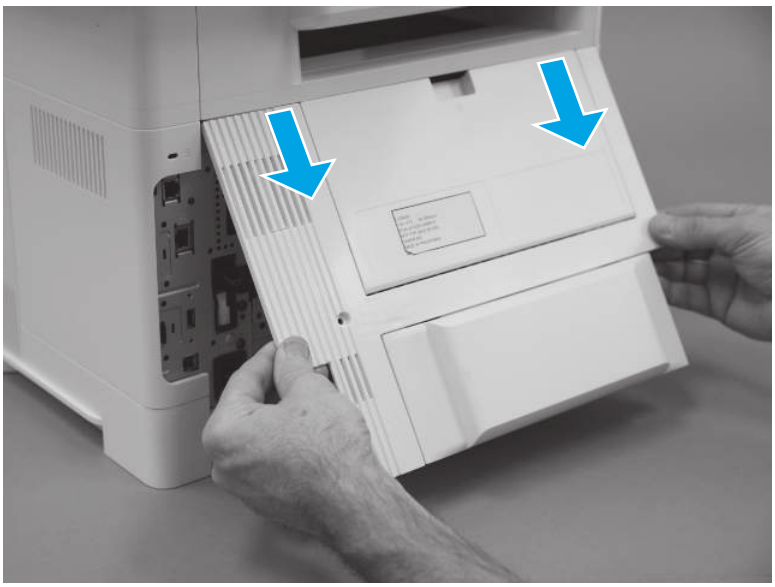
b. Rotate the bottom edge of the assembly away from the printer to release it.

Figure 1-248 Rotate the bottom of the cover



c. Pull down on the assembly to remove it.

Figure 1-249 Remove the cover



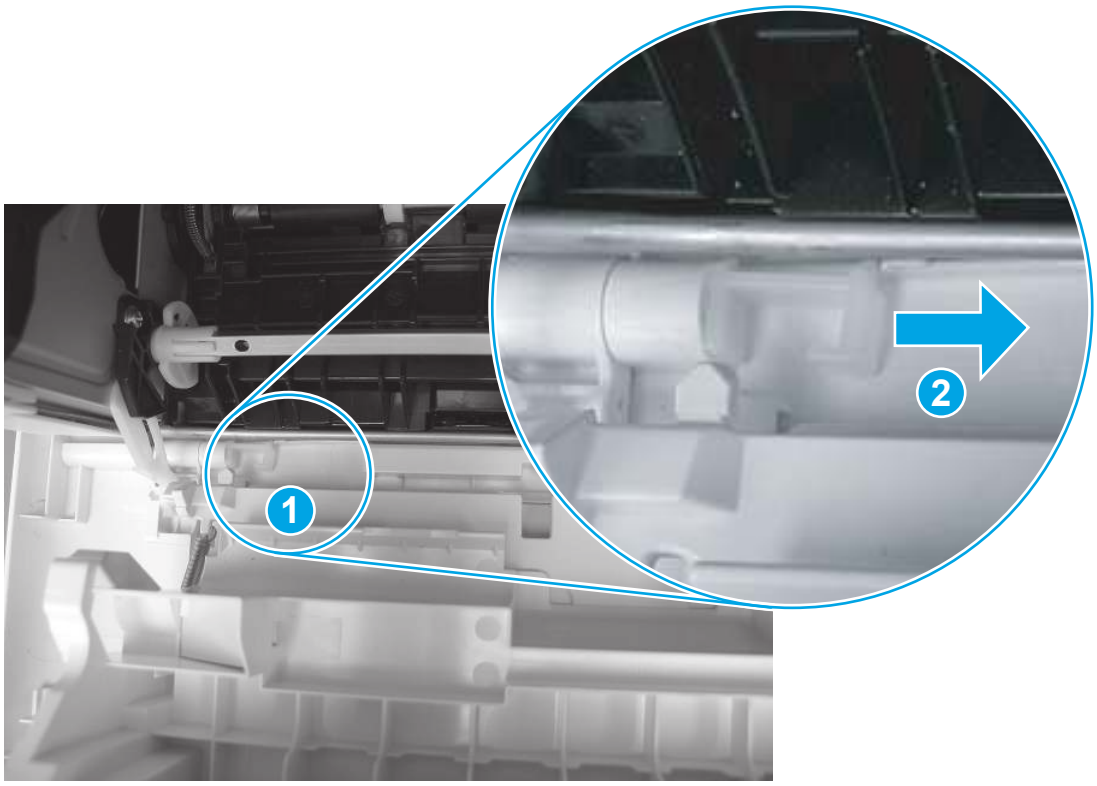
9. Remove the cartridge door assembly.

NOTE: If the toner cartridge was not removed prior to servicing the printer, remove it now.

a. Release the support shaft (callout 1), and then slide it toward the center of the door (callout 2).

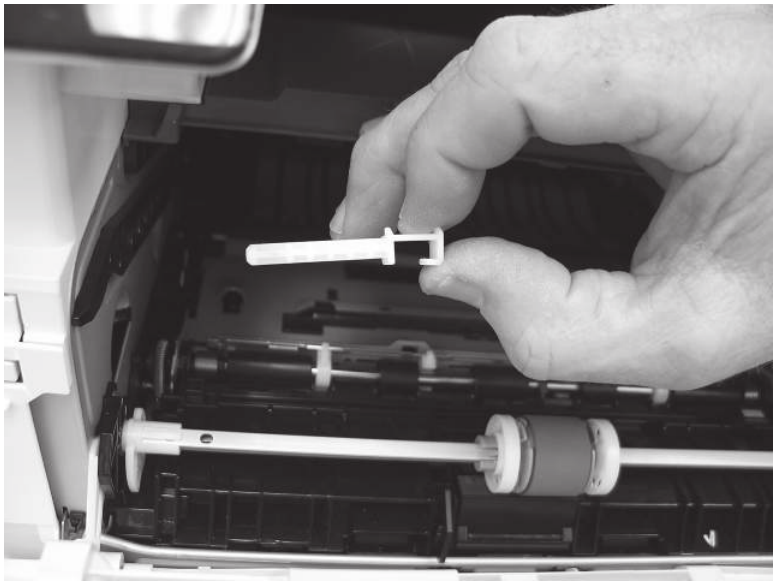
TIP: It might be easier to release the support shaft by using a small flat-blade screwdriver.

Figure 1-250 Release the support shaft



b. Remove the support shaft.

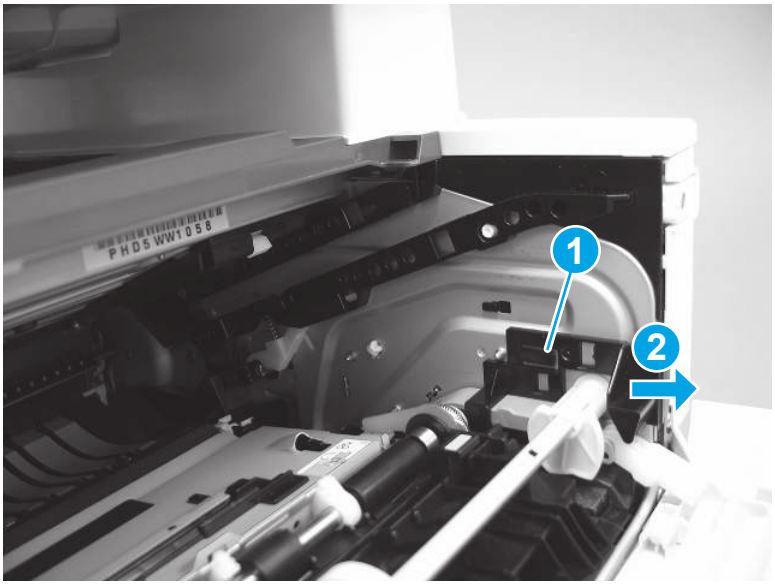
Figure 1-251 Remove the support shaft



c. Release one tab (callout 1), and then slide the guide out of the printer (callout 2).

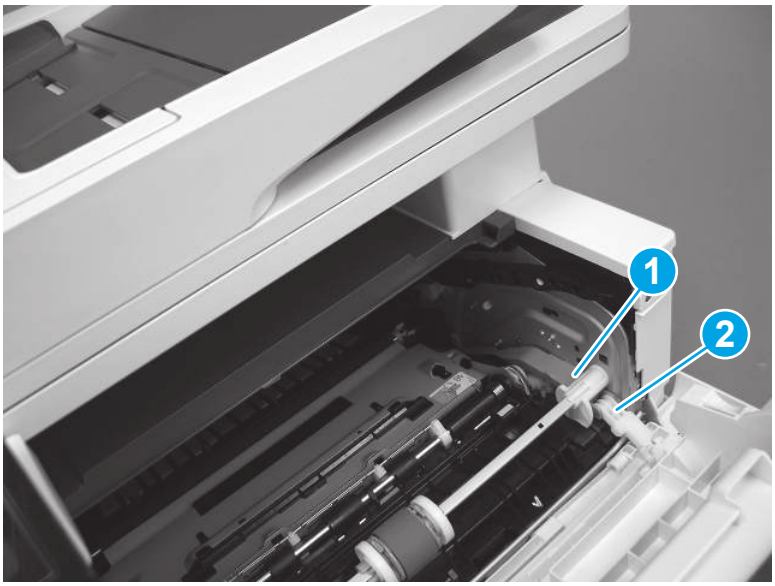
⚠ CAUTION: Be careful, the tab (callout 1) can be easily broken.

Figure 1-252 Remove the guide



d. Use a small flat-blade screwdriver to gently pry the white-plastic door arm (callout 1) off of the gray-plastic pressure-release link (callout 2) to release the door arm.

Figure 1-253 Release the pressure-release link



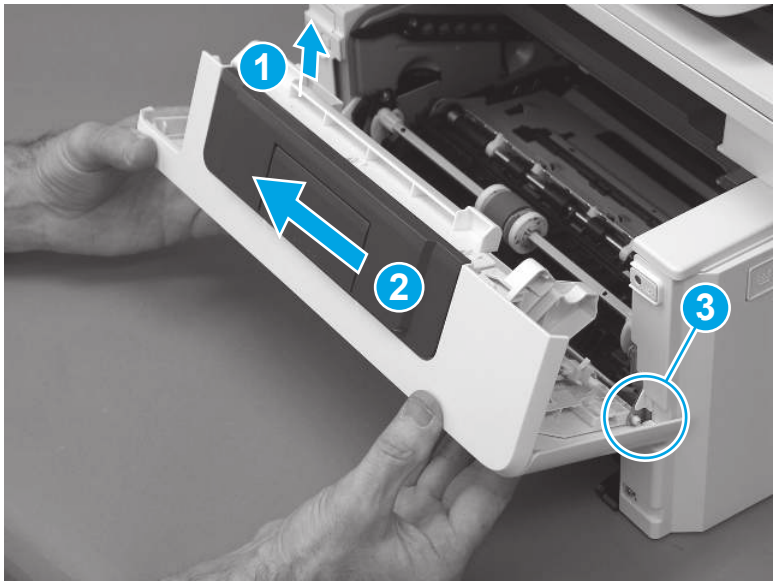
e. With the door in the partially closed position, slightly raise the left end (callout 1; raise it over the sheet-metal hinge boss), and then slide the door to the left (callout 2) to release the right hinge (callout 3).

⚠ CAUTION: The door is still attached to the printer by the left-side retainer arm. Do not attempt to completely remove the door.

Reinstallation tip: When reinstalling the door, there are two right-side hinge pins (not shown in callout 3).

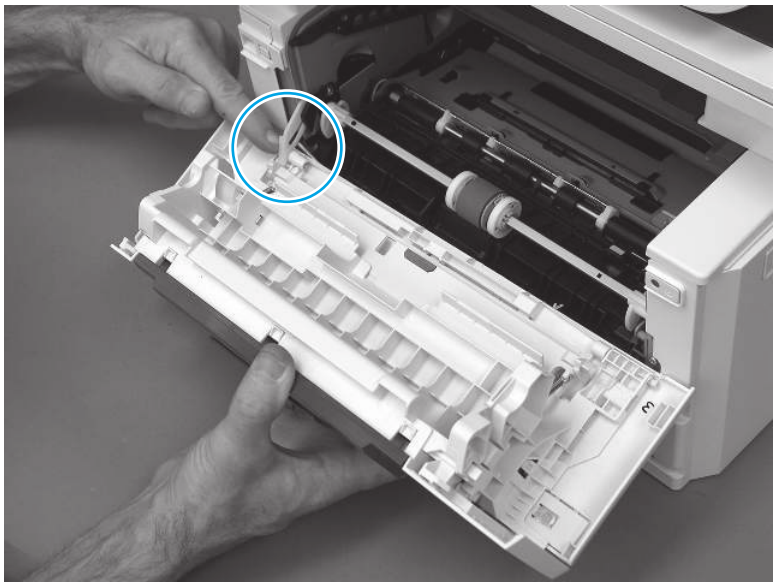
Keep a finger pressed on the left-side retainer arm so that it does not disengage from the door.

Figure 1-254 Release the door



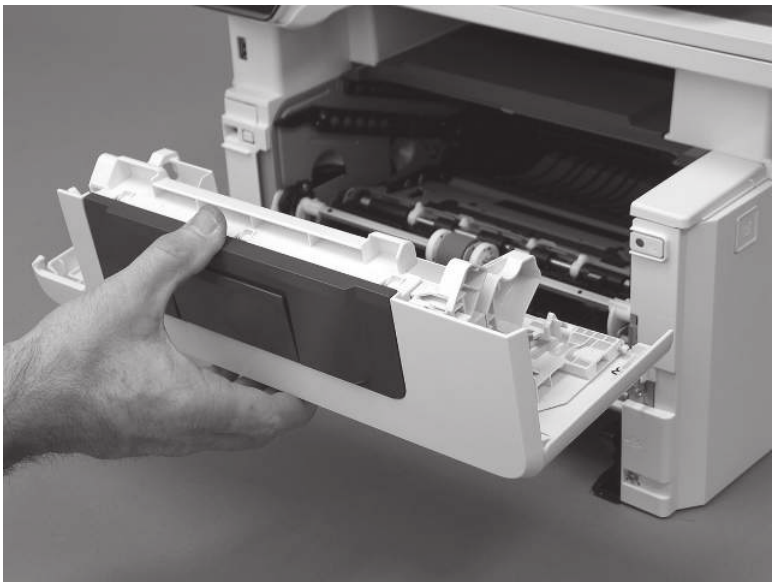
f. Rotate the door away from the printer until the keyed pin on the left-side retainer arm can disengage from the door.

Figure 1-255 Release the left-side retainer arm



g. Remove the door.

Figure 1-256 Remove the door



10. Remove the left cover.

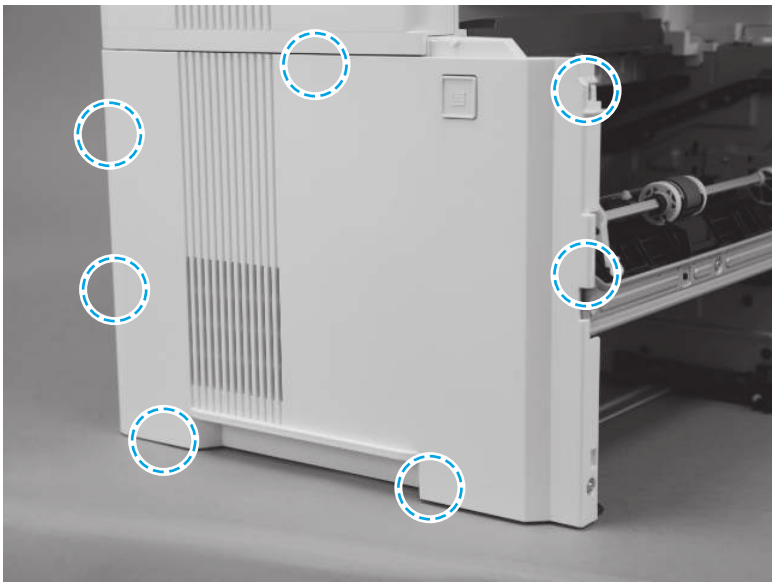
IMPORTANT: The black-plastic cassette front and rear guides (located inside the tray cavity) can be easily dislodged. Do not lose the guides when the cover is removed or installed.

NOTE: An MFP printer is shown in this section. However, the procedure is correct for all printer models.

a. Before proceeding, take note of the location of the tabs and bosses on the inside of the cover.

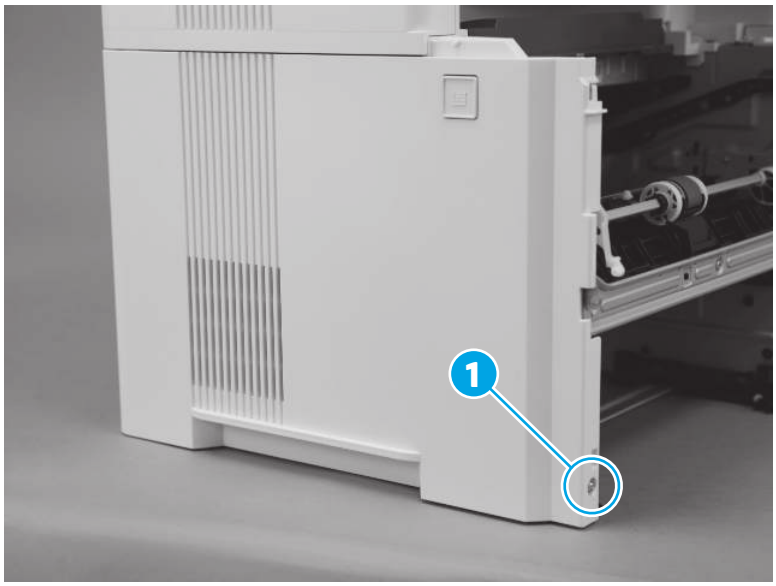
Reinstallation tip: When reinstalling the cover, take note of the location of the tabs and bosses on the inside of the cover.

Figure 1-257 Locate of the tabs and bosses



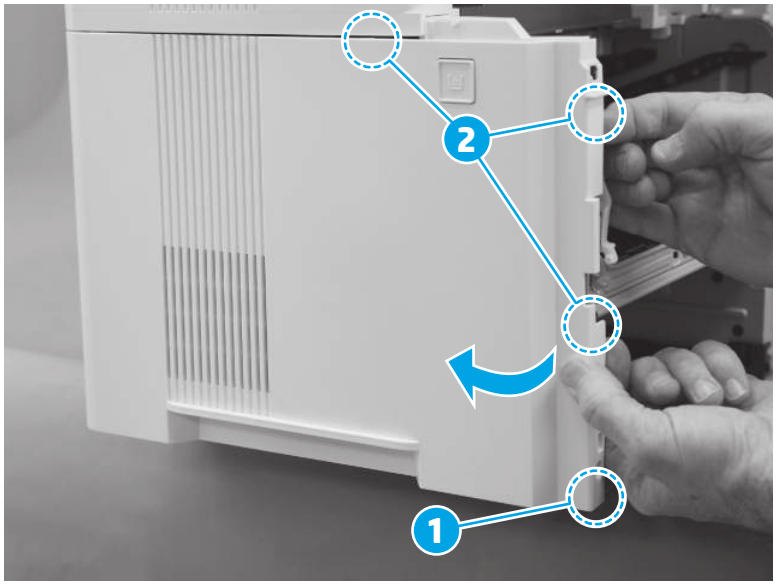
b. Remove one screw (callout 1).

Figure 1-258 Remove one screw



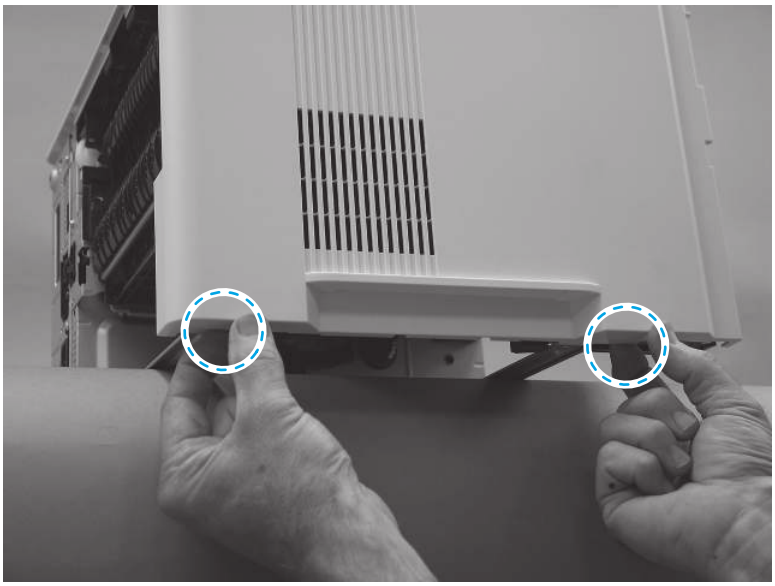
c. At the front of the printer, release one boss (callout 1), and then rotate the front edge of the cover away from the printer to release three tabs (callout 2).

Figure 1-259 Release one boss and three tabs



d. At the bottom edge of the cover, release two tabs.

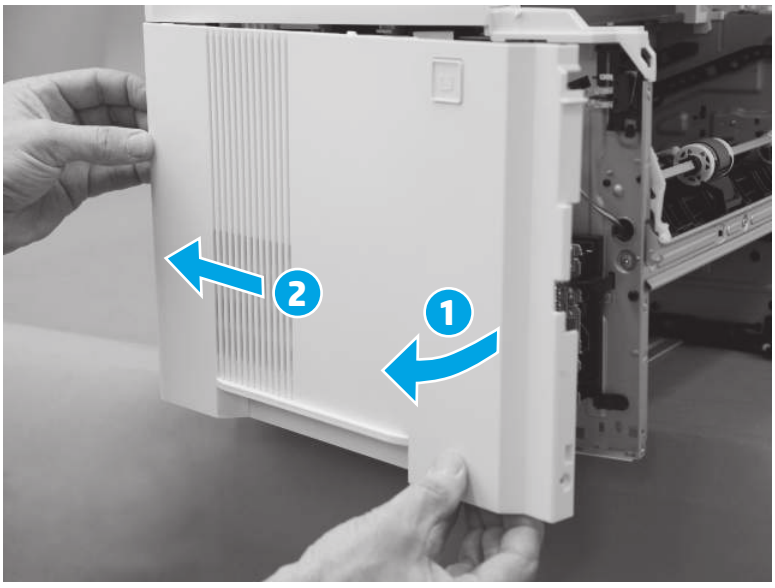
Figure 1-260 Release two tabs



e. Continue to rotate the front edge of the cover away from the printer (callout 1), and then slide the cover toward the rear of the printer (callout 2) to remove it.

NOTE: If the cover is difficult to rotate or slide as shown below, make sure that the bottom tabs (released in the previous step) are completely disengaged from the chassis.

Figure 1-261 Remove the cover



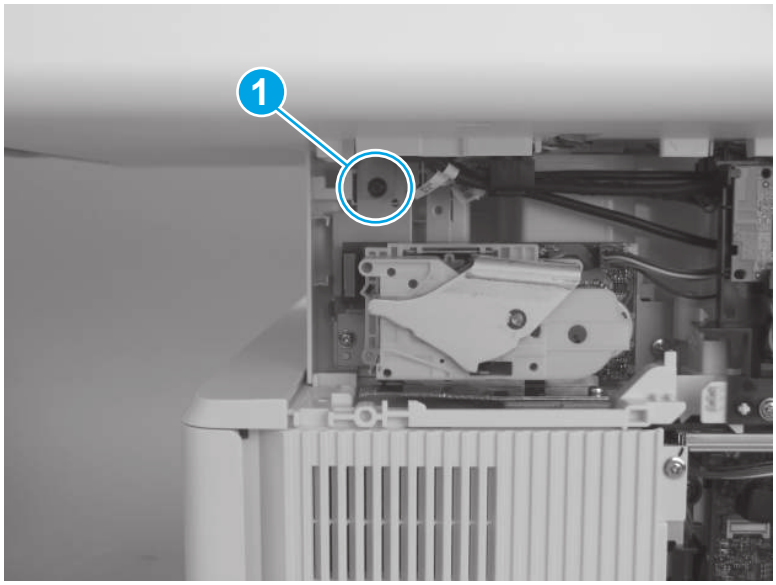
11. Remove the integrated-scanner assembly (ISA) (M527/E52545/M528/E52645).

NOTE: The ISA includes the document feeder, sub-scanner assembly (SSA), and the scanner control board (SCB).

a. Remove one screw (callout 1).

IMPORTANT: This screw fastens the ISA ground plate to the printer chassis. Do not lose this screw.

Figure 1-262 Remove one screw

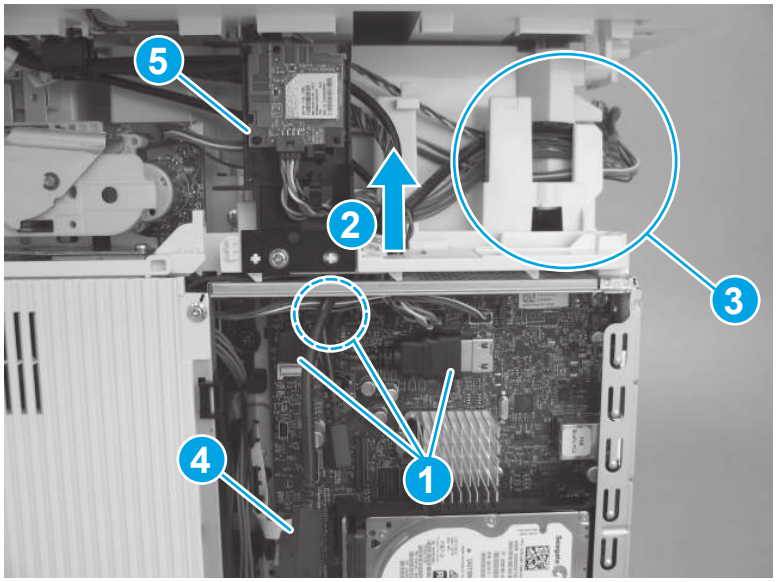


b. Disconnect three connectors (callout 1), pass the wire harnesses and cables through the opening in the cover (callout 2), and then release them from the retainers (callout 3).

NOTE: One cable (callout 4) does not need to pass through the opening in the cover.

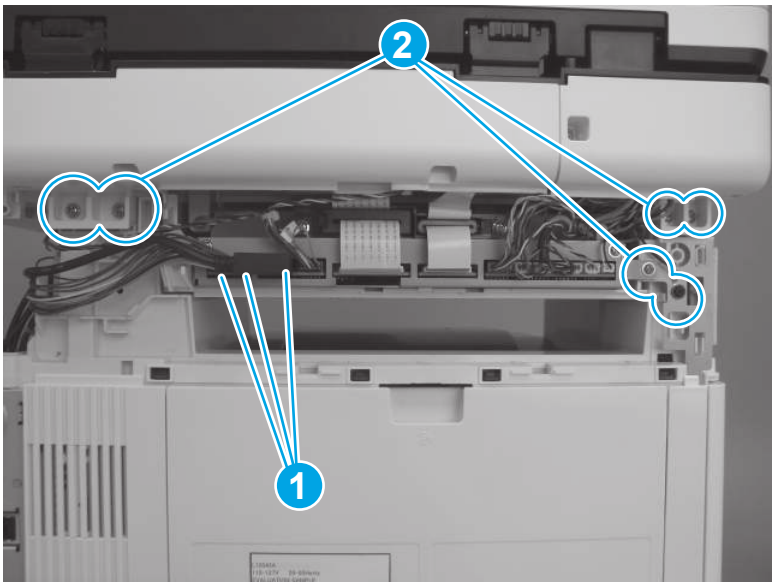
TIP: It might be easier if the WiFi PCA and holder (not all models; callout 5) is detached from the printer, and then moved out of the way.

Figure 1-263 Disconnect cables and connectors



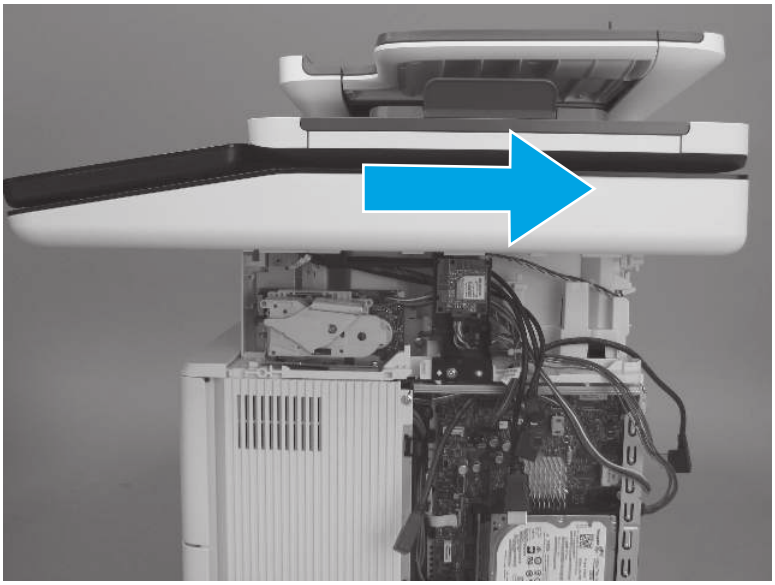
c. Disconnect three connectors (callout 1), and then remove six screws (callout 2).

Figure 1-264 Disconnect connectors and remove screws



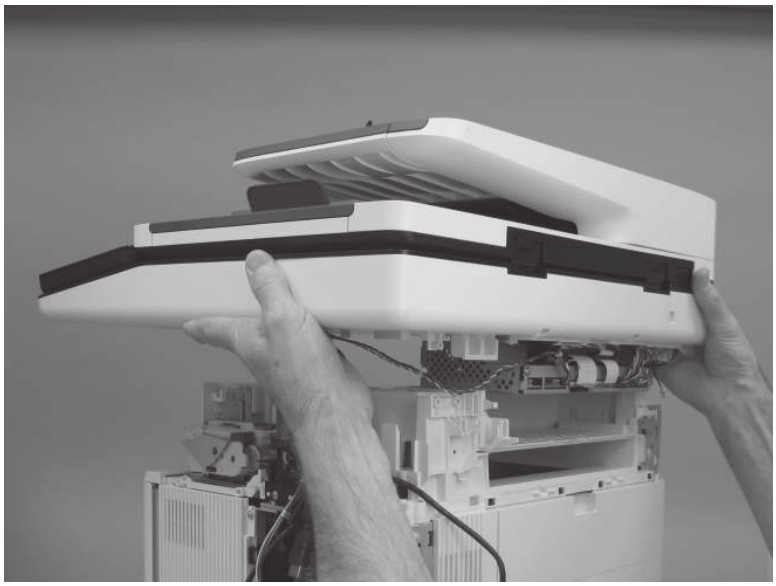
d. Slightly slide the ISA towards the back of the printer to release it.

Figure 1-265 Slide the ISA towards the back of the printer



e. Remove the ISA.

Figure 1-266 Remove the ISA



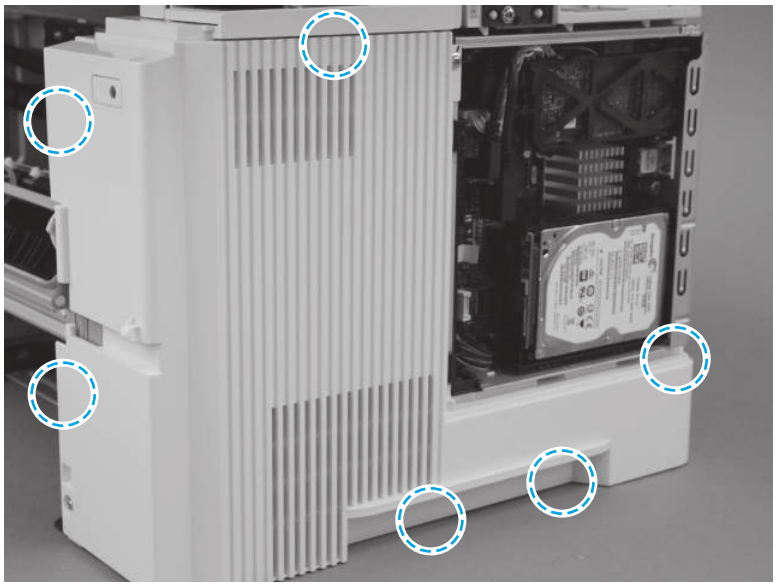
12. Remove the right cover.

IMPORTANT: The black-plastic cassette front and rear guides (located inside the tray cavity) can be easily dislodged. Do not lose the guides when the cover is removed or installed.

An MFP printer is shown in this section. However, the procedure is correct for all printer models.

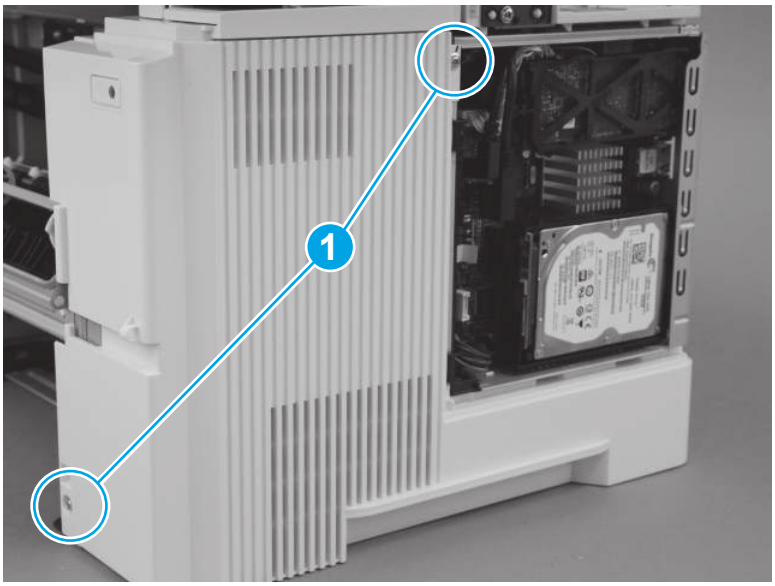
a. Before proceeding, take note of the location of the tabs and bosses on the inside of the cover.

Figure 1-267 Locate the tabs and bosses



b. Remove two screws (callout 1).

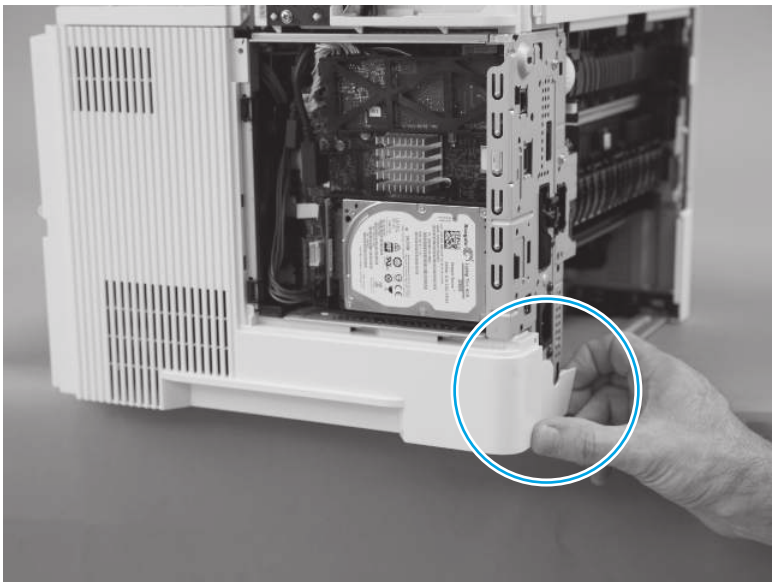
Figure 1-268 Remove two screws



c. At the rear of the printer, release one boss.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

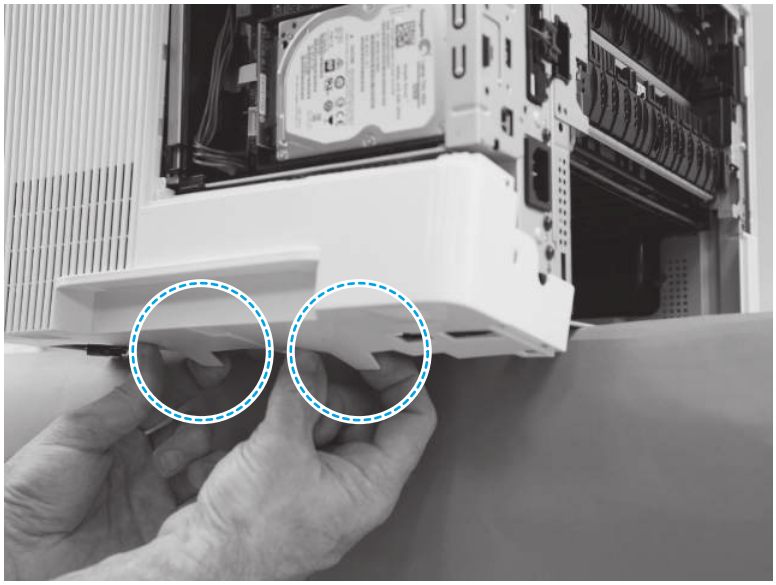
Figure 1-269 Release one boss



d. At the bottom edge of the cover, release two bosses.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

Figure 1-270 Release two bosses

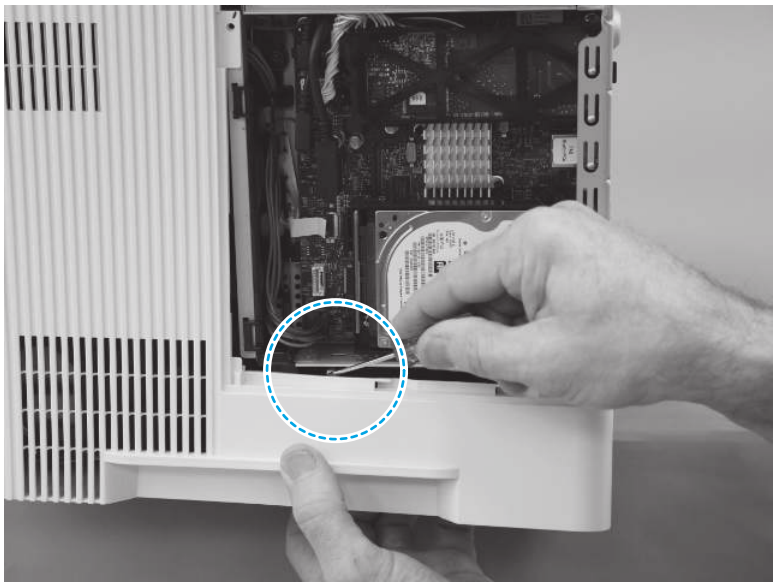


e. Near the formatter, release one tab.

CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

TIP: Hold the bottom of the cover away from the printer, and then use a small flat-blade screw driver to easily release this tab.

Figure 1-271 Release one tab

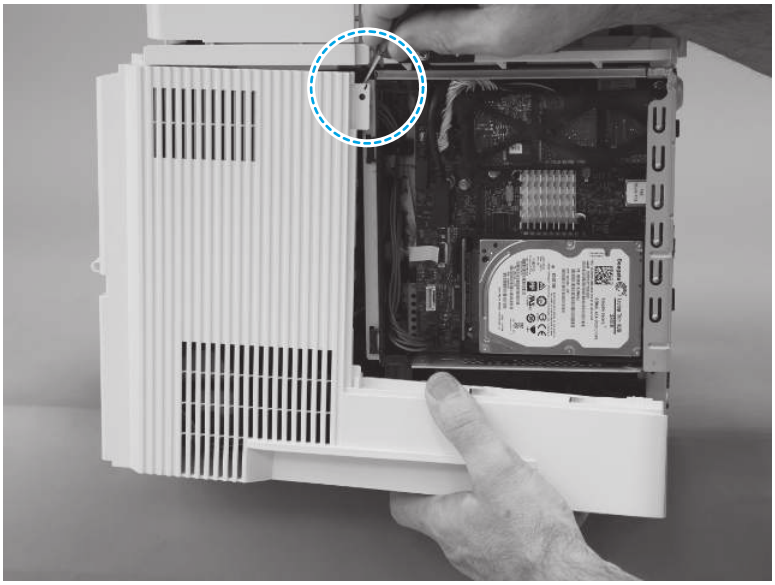


f. At the top rear edge of the cover, release one tab.

CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

TIP: Use a small flat-blade screw driver to easily release this tab.

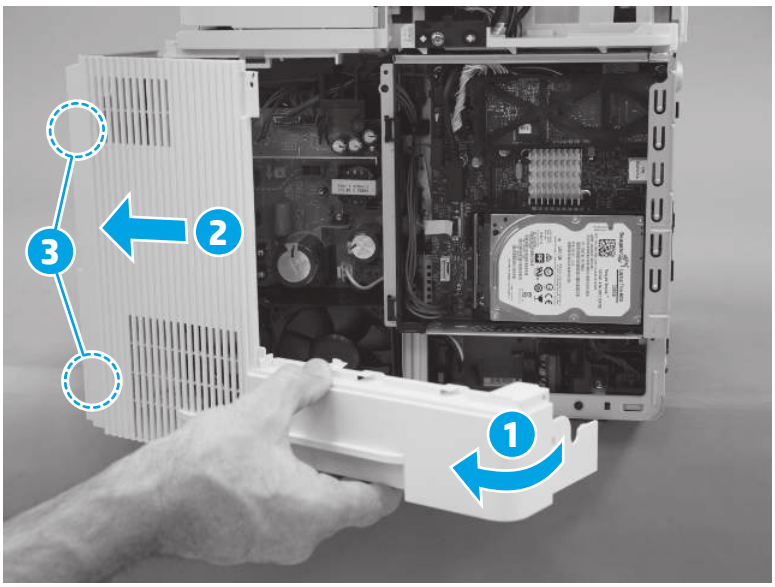
Figure 1-272 Release one tab



g. Rotate the rear of the cover away from the printer (callout 1), slide the cover toward the front of the printer (callout 2) to release two bosses (callout 3), and then remove the cover.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

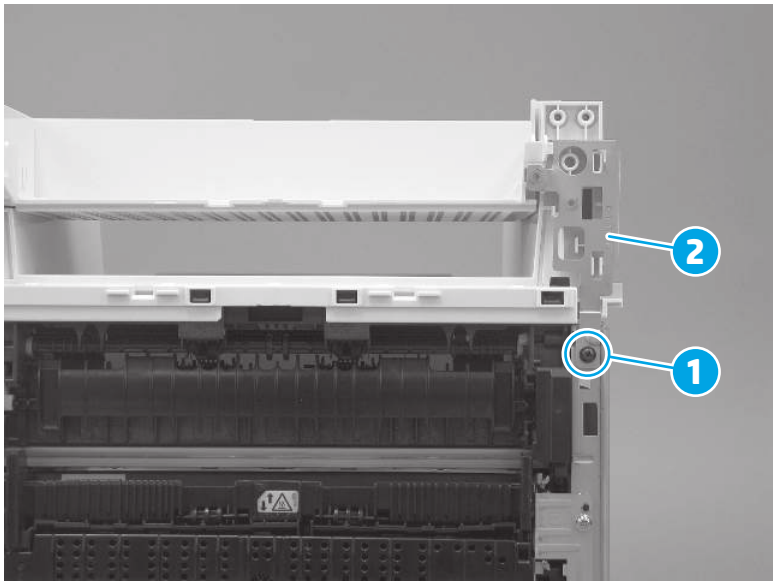
Figure 1-273 Remove the cover



13. Remove the top cover (M527/E52545/M528/E52645).

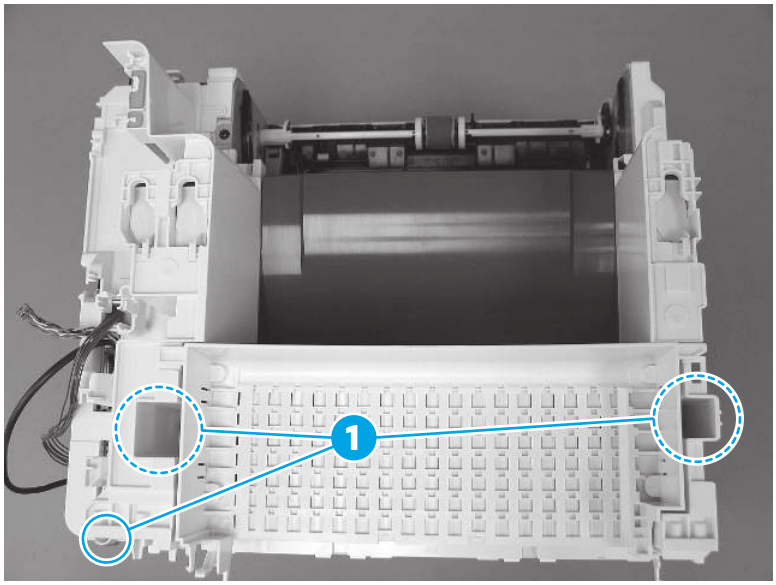
a. At the front right of the printer, remove one screw (callout 1), and then remove the sheet-metal plate (callout 2).

Figure 1-274 Remove one screw and the plate



b. At the top rear of the printer, remove three screws (callout 1).

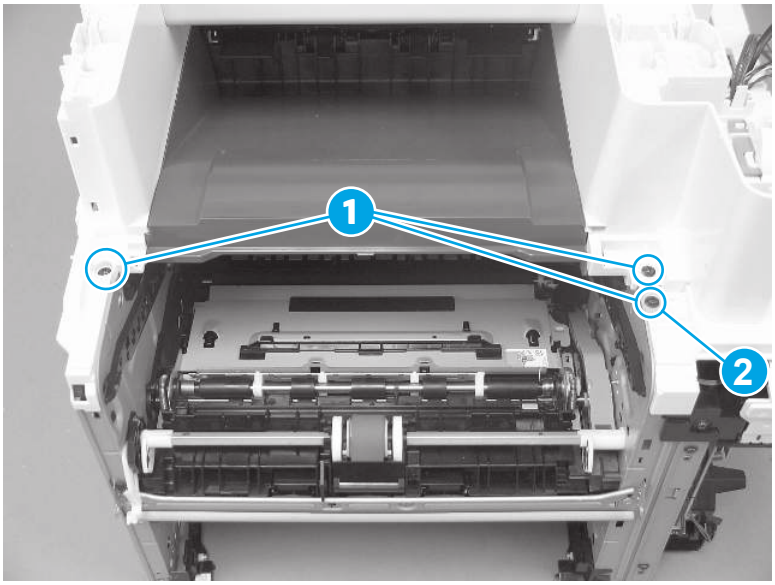
Figure 1-275 Remove three screws



c. At the top front of the printer, remove three screws (callout 1).

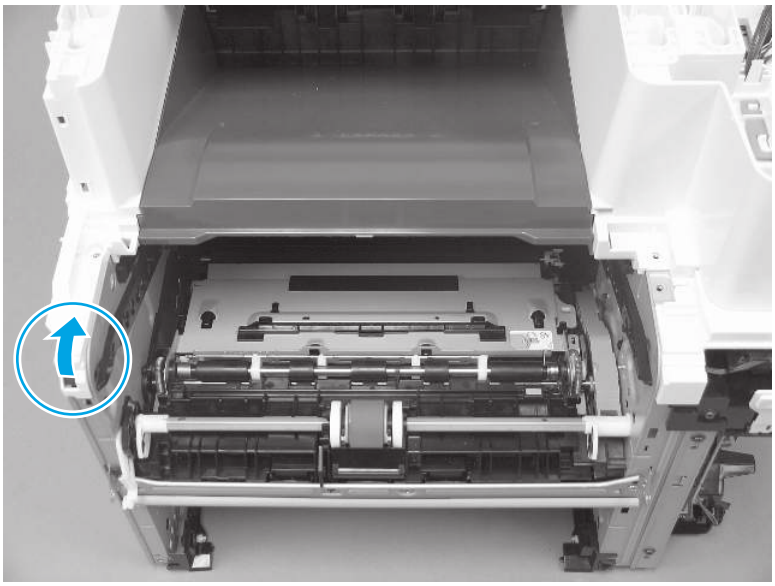
NOTE: The screw (callout 2) on the lower-right portion of the cover is a different color than the other two screws, and is surrounded by sheet-metal. It might appear that this screw does not need to be removed. Remove this screw.

Figure 1-276 Remove three screws



d. At the front left of the printer, release one boss.

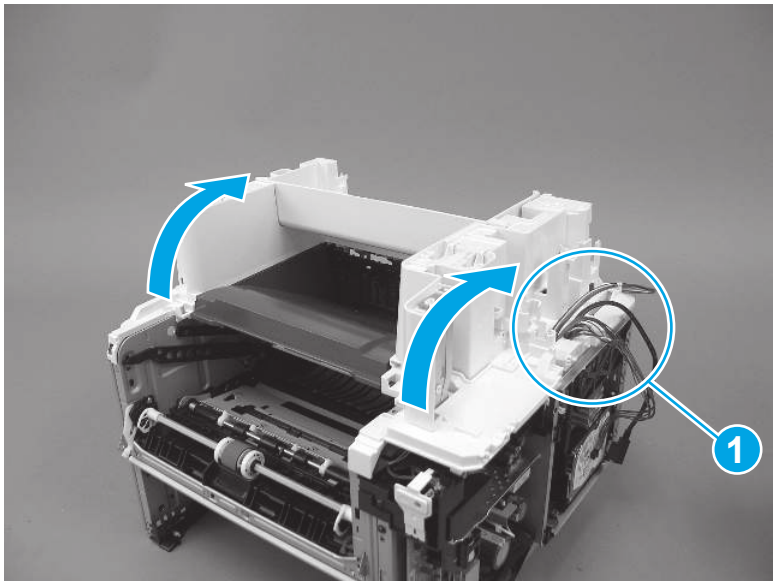
Figure 1-277 Release one boss



e. Rotate the front of the cover up and away from the printer.

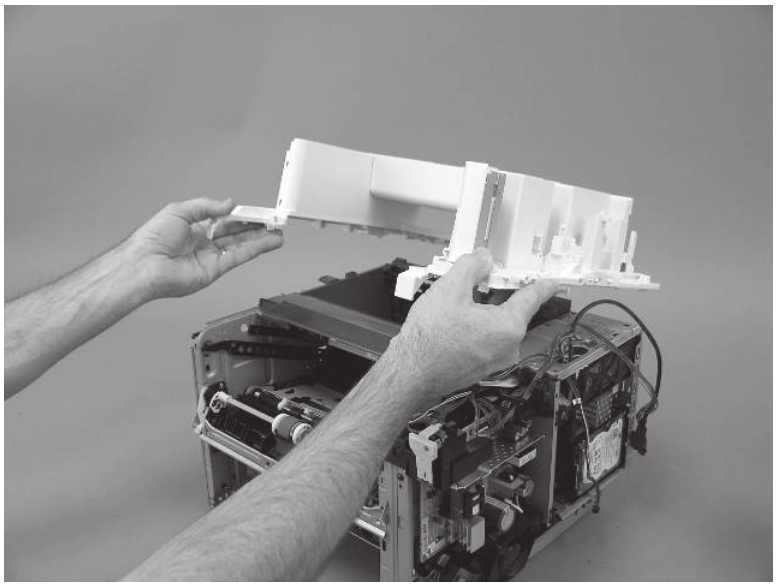
⚠ CAUTION: As the cover is rotated up, carefully pass the cables and wire harnesses the hole in the cover (callout 1).

Figure 1-278 Rotate the front of the cover up



f. Remove the cover.

Figure 1-279 Remove the cover



14. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the

sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Removal and replacement: Top cover (SFP)

Learn how to remove and replace the top cover (M501/M506/E50045/M507/E50145).

To view a short video of this procedure, click the link below.

M501

View a video of how to remove and replace the top cover (M501).

M506/E50045

View a video of how to remove and replace the top cover (M506/E50045).

M507/E50145

View a video of how to remove and replace the top cover (M507E50145).

Mean time to repair: 8 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

WARNING! To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-24 Part information

Part number	Part description
RM2-5735-000CN	Top cover (M501)
RM2-5687-000CN	Top cover (M506/E50045/M507/E50145; simplex)
RM2-5728-000CN	Top cover (M506/E50045/M507/E50145; duplex LCD)
RM2-5686-000CN	Top cover (M506/E50045/M507/E50145; duplex MF)

Required tools

- #2 Phillips screwdriver with a magnetic tip and a 152 mm (6 in) shaft length

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

No post service test is available for this assembly.

1. Remove the tray.

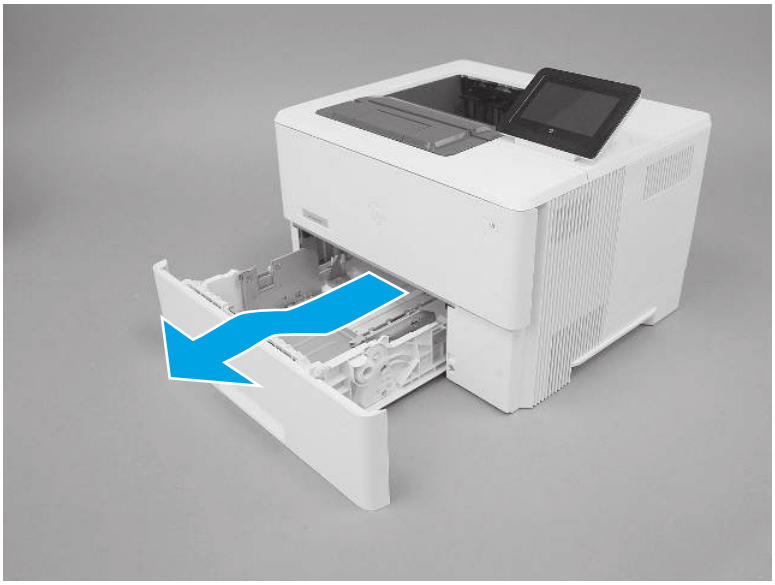
   a. Pull the tray straight out of the printer until it stops.

   Figure 1-280 Pull the tray out until it stops

   b. Lift the front of the tray, and then pull it out of the printer to remove it.

   NOTE: If the tray has Fixed Tray Guides installed and are still required, move the hardware to new tray. If necessary, order new kit: 3GY19-67901 Kit-Fixed Tray Guide. Only one kit required per engine.

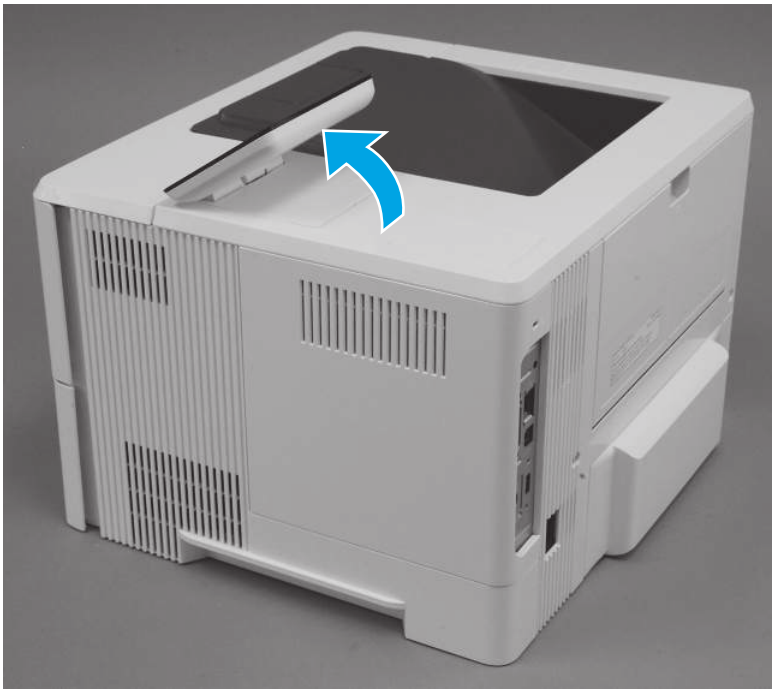
Figure 1-281 Release and remove the tray



2. Remove the control panel (M506x/E50045x/M507x/E50145x).

   a. Tilt the control panel to the fully raised position.

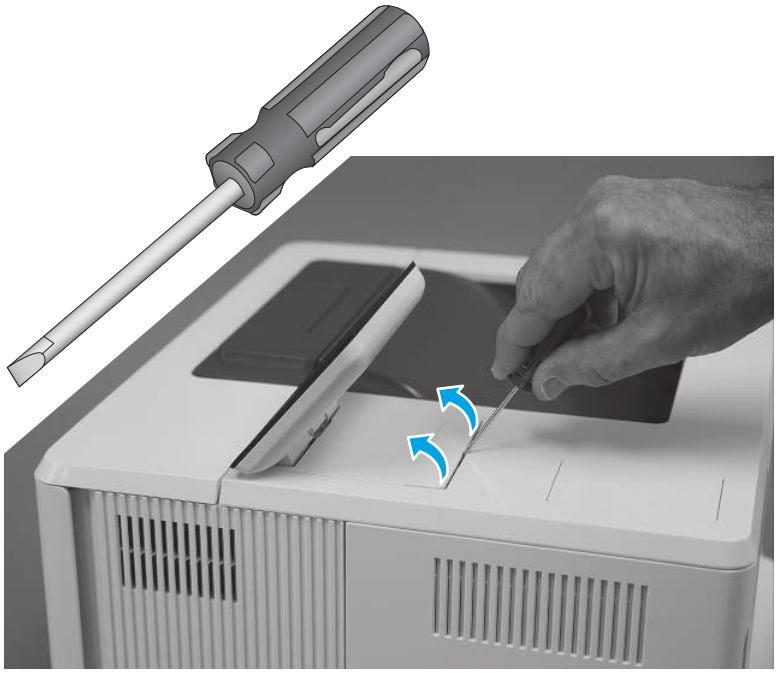
   Figure 1-282 Tilt the control panel up



   b. Use the small flat-blade screwdriver supplied in the kit to release the control-panel screws cover, and then remove the cover.

   TIP: The screwdriver has a reversible shaft. Simply pull the shaft out of the handle, and then reinstall it with the desired end facing out.

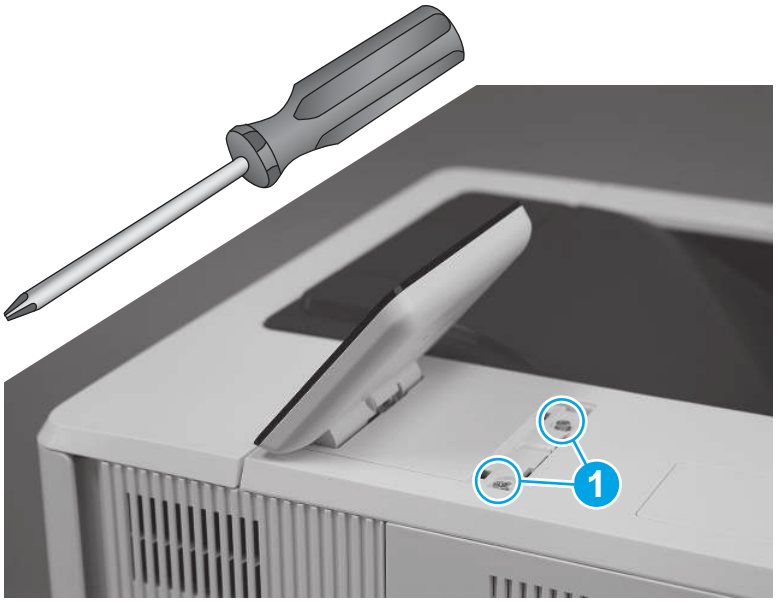
Figure 1-283 Remove the cover



c. Use the small Phillips screwdriver supplied in the kit to remove two screws (callout 1).

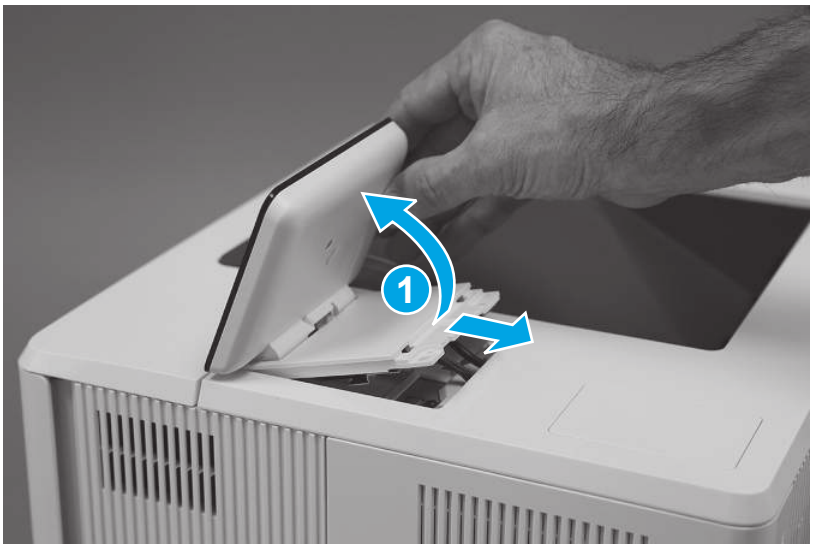
IMPORTANT: Store the screws in a secure place where they cannot fall down into the printer.

Figure 1-284 Remove two screws



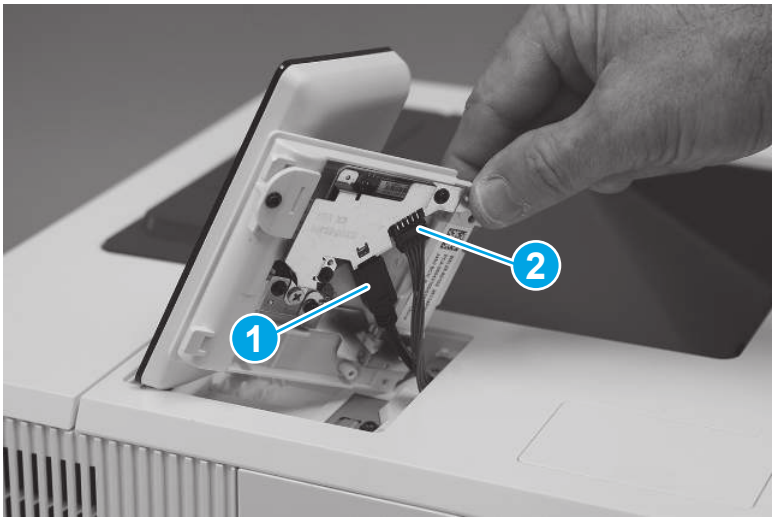
d. Turn the control panel over (callout 1), to gain access to the bottom side.

Figure 1-285 Turn the control panel over



e. **M506/E50045 only**: Disconnect one HDMI cable (callout 1), one connector (callout 2), and then remove the control panel.

Figure 1-286 Remove the control panel (M506/E50045)



f. **M507/E50154 only**: If the formatter cover has not been removed, remove it now. Disconnect one flat-flexible cable (FFC).

CAUTION: ESD sensitive part.

NOTE: This connector is a zero-insertion force (ZIF) connector. Open the locking clip. The clip is easily dislodged and lost.

Figure 1-287 Disconnect one FFC (M507/E50145)

g. **M507/E50145 only**: Pass the FFC through the opening in the cover, and then remove the control panel.

⚠ **CAUTION:** ESD sensitive part.

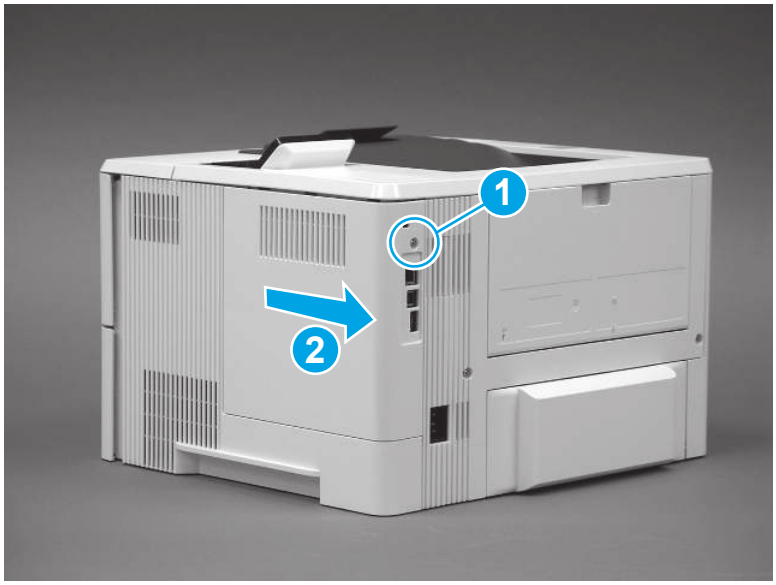
Figure 1-288 Remove the control panel (M507/E50145)

3. Remove the formatter cover.

▲ Do one of the following:

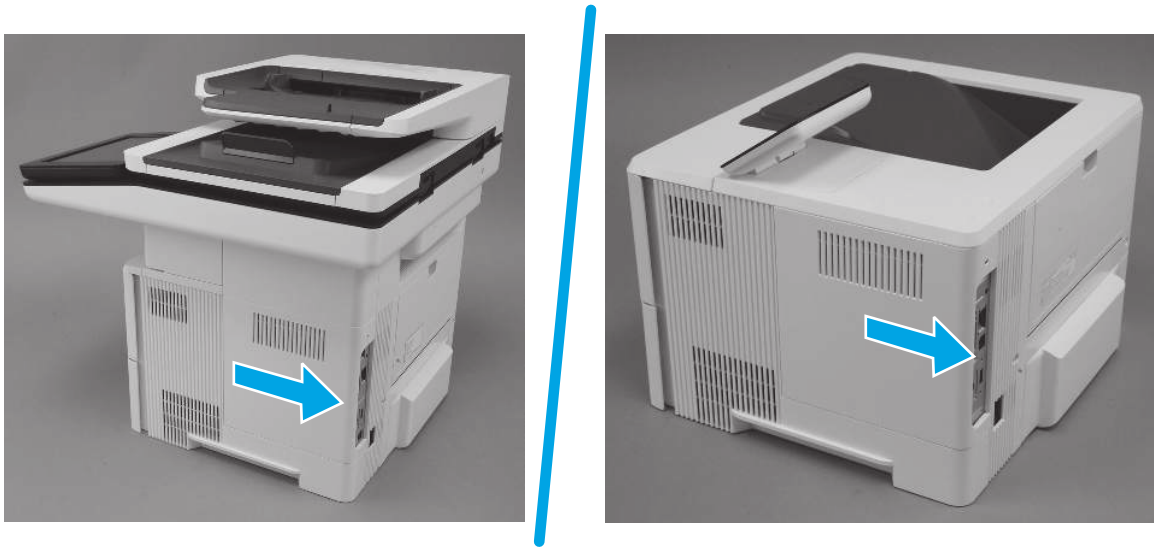
- **M501**: Remove one screw (callout 1), and then slide the cover toward the rear of the printer to remove it (callout 2).

Figure 1-289 Remove the formatter cover (M501)



- M506/E50045/M507/E50145/M527/E52545/M528/E52645: Slide the cover toward the rear of the printer to remove it.

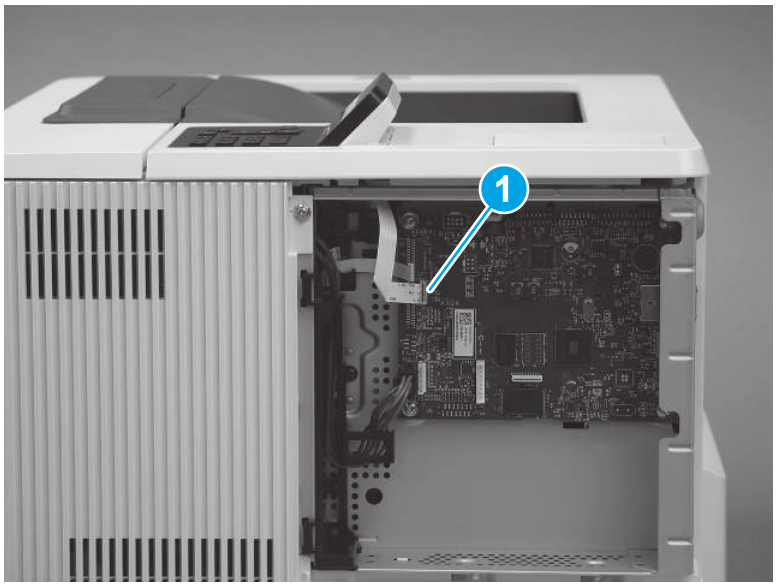
  Figure 1-290 Remove the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)



4. Remove the control panel (M501).

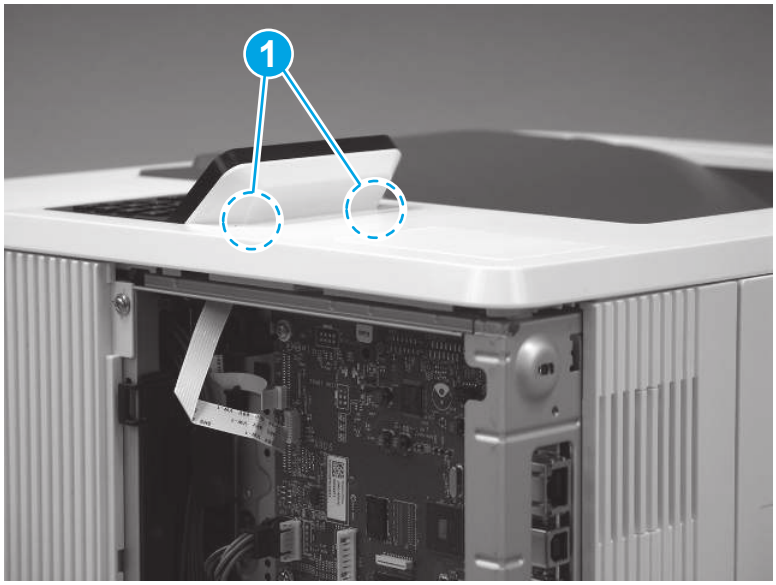
a. Disconnect one flat cable (callout 1).

Figure 1-291 Disconnect one flat cable



b. Locate two tabs (callout 1) along the rear edge of the control panel.

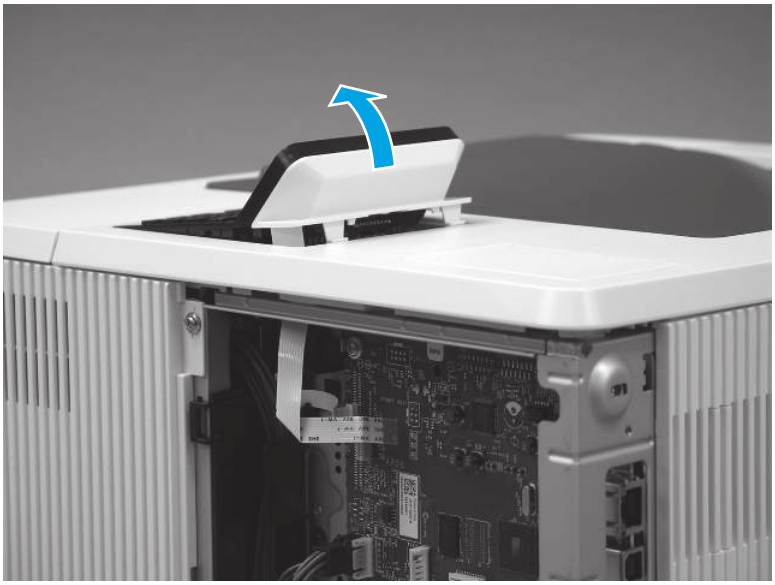
Figure 1-292 Locate two tabs



c. Release the two tabs, and then rotate the rear edge of the control panel up and away from the printer.

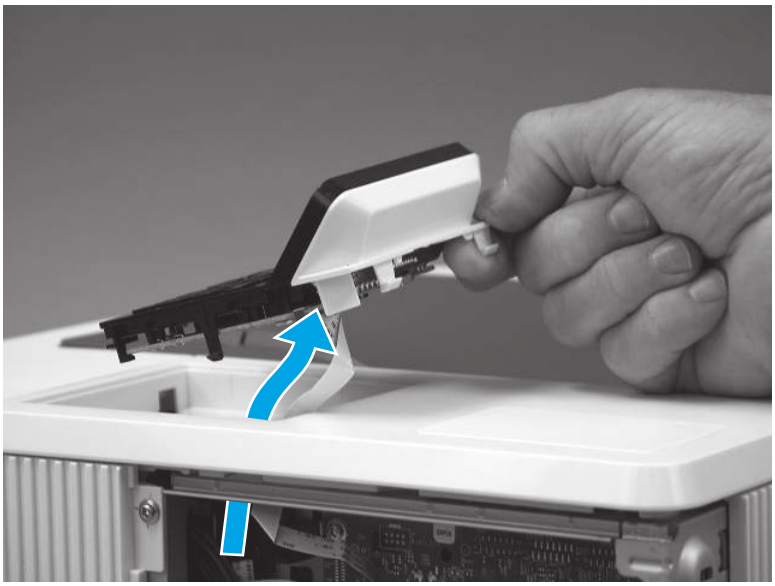
TIP: Use a small flat-blade screw driver to release the two tabs.

Figure 1-293 Release the control panel



d. Pass the flat cable attached to the control panel thorough the opening in the printer chassis, and then remove the control panel.

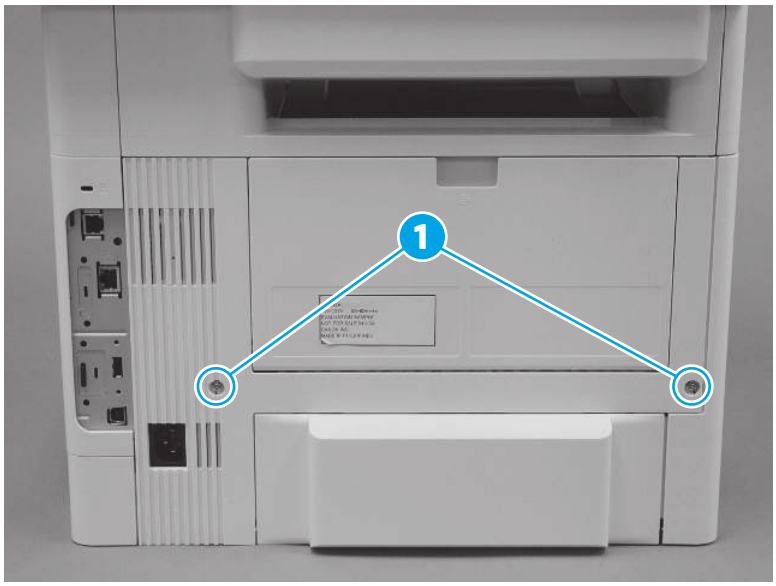
Figure 1-294 Remove the control panel



5. Remove the rear door assembly.

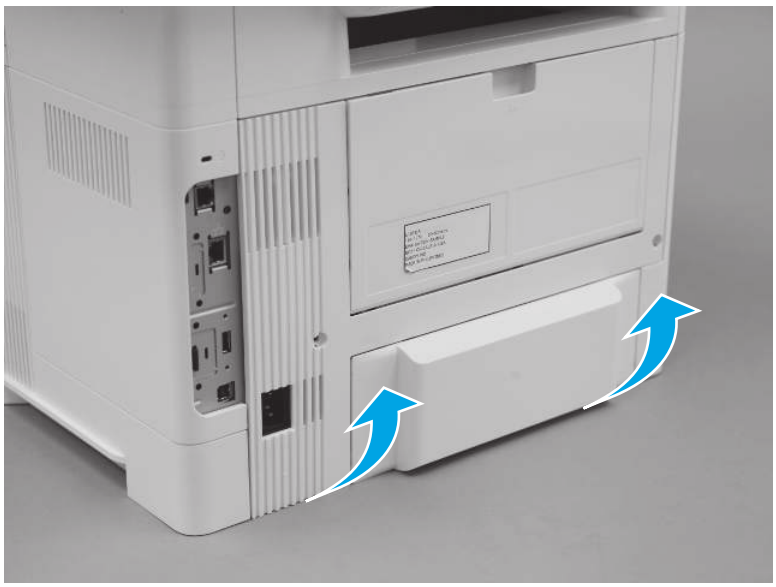
a. At the rear of the printer, remove two screws (callout 1).

Figure 1-295 Remove two screws



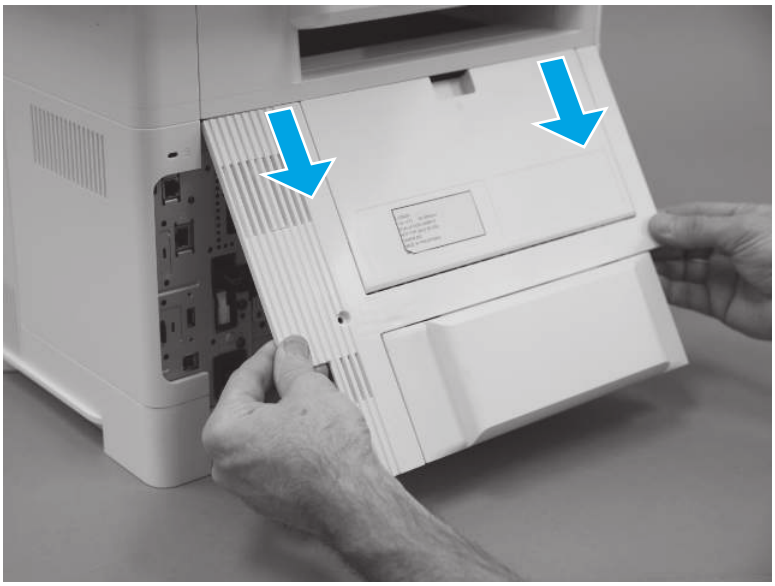
b. Rotate the bottom edge of the assembly away from the printer to release it.

Figure 1-296 Rotate the bottom of the cover



c. Pull down on the assembly to remove it.

Figure 1-297 Remove the cover



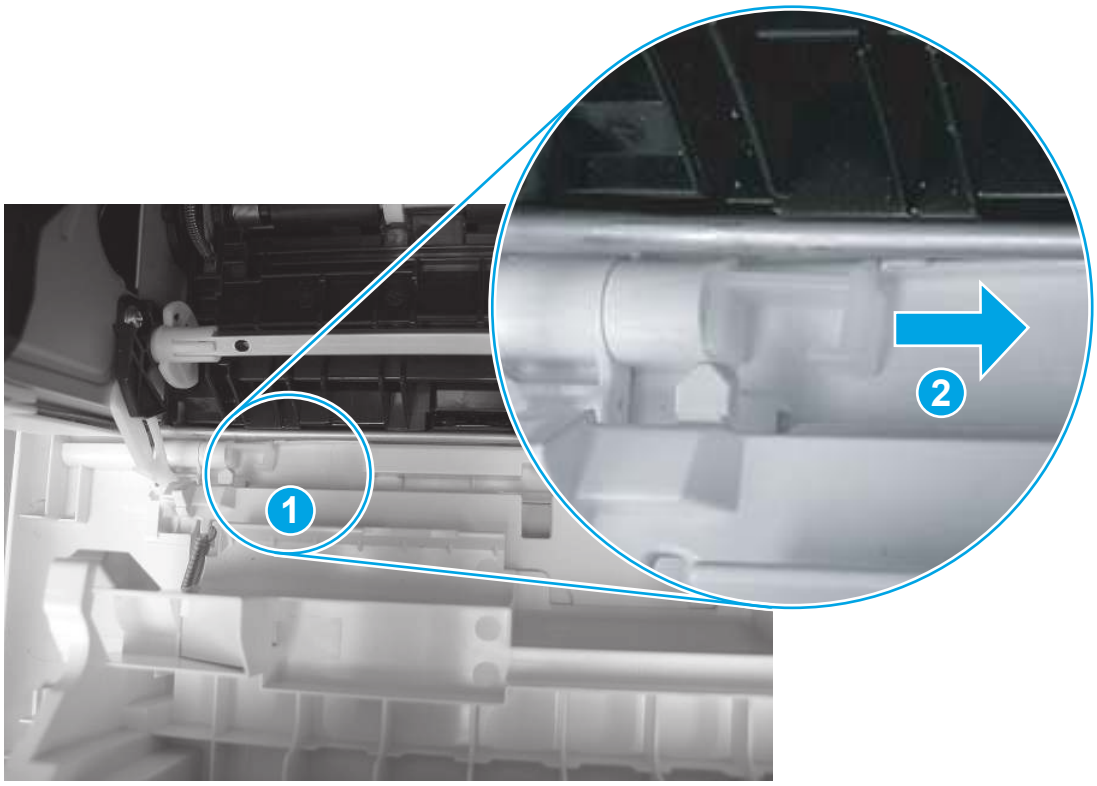
6. Remove the cartridge door assembly.

NOTE: If the toner cartridge was not removed prior to servicing the printer, remove it now.

a. Release the support shaft (callout 1), and then slide it toward the center of the door (callout 2).

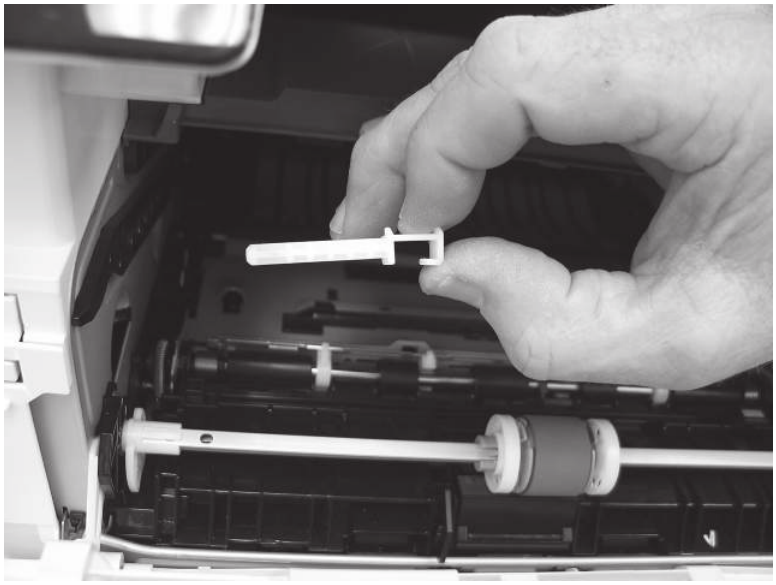
TIP: It might be easier to release the support shaft by using a small flat-blade screwdriver.

Figure 1-298 Release the support shaft



b. Remove the support shaft.

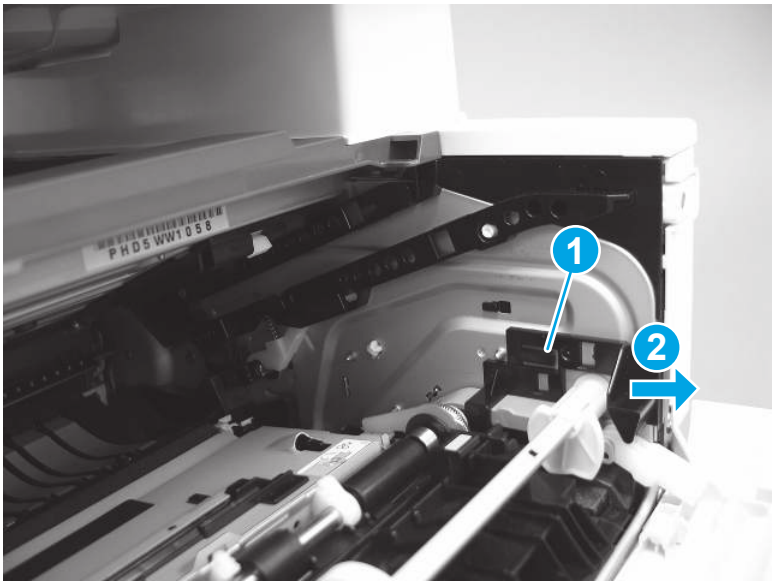
Figure 1-299 Remove the support shaft



c. Release one tab (callout 1), and then slide the guide out of the printer (callout 2).

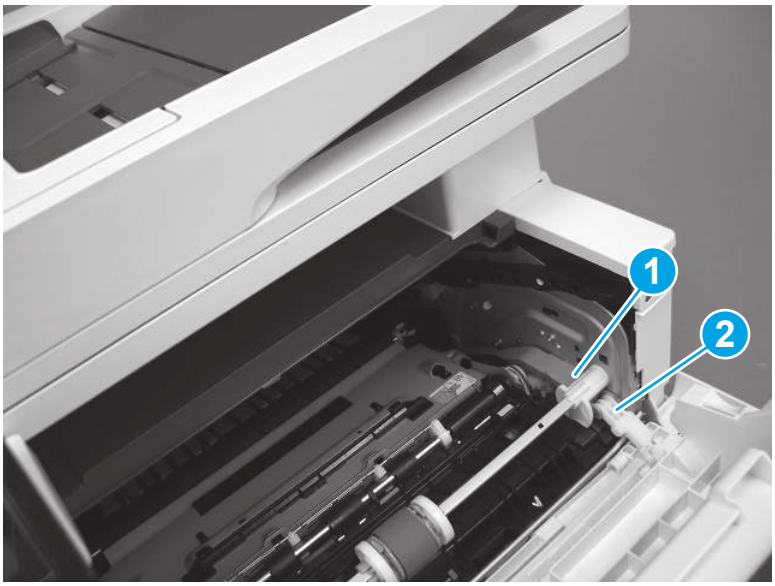
⚠ CAUTION: Be careful, the tab (callout 1) can be easily broken.

Figure 1-300 Remove the guide



d. Use a small flat-blade screwdriver to gently pry the white-plastic door arm (callout 1) off of the gray-plastic pressure-release link (callout 2) to release the door arm.

Figure 1-301 Release the pressure-release link



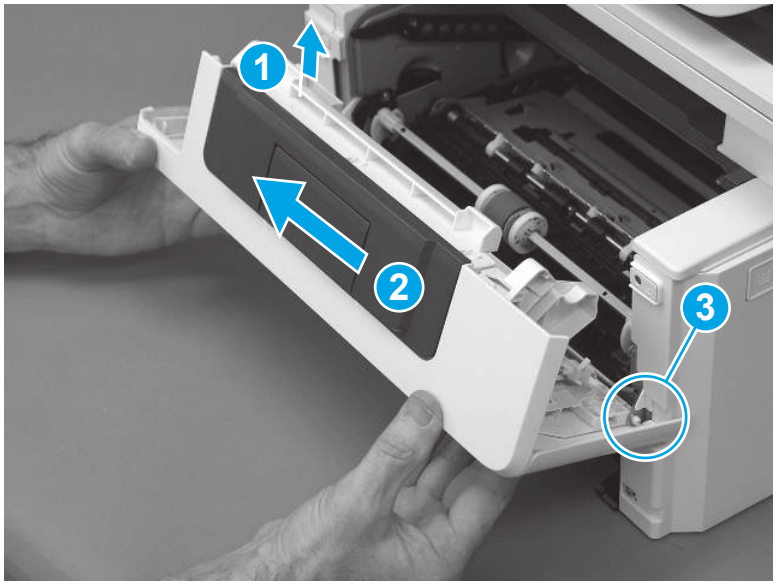
e. With the door in the partially closed position, slightly raise the left end (callout 1; raise it over the sheet-metal hinge boss), and then slide the door to the left (callout 2) to release the right hinge (callout 3).

⚠ CAUTION: The door is still attached to the printer by the left-side retainer arm. Do not attempt to completely remove the door.

Reinstallation tip: When reinstalling the door, there are two right-side hinge pins (not shown in callout 3).

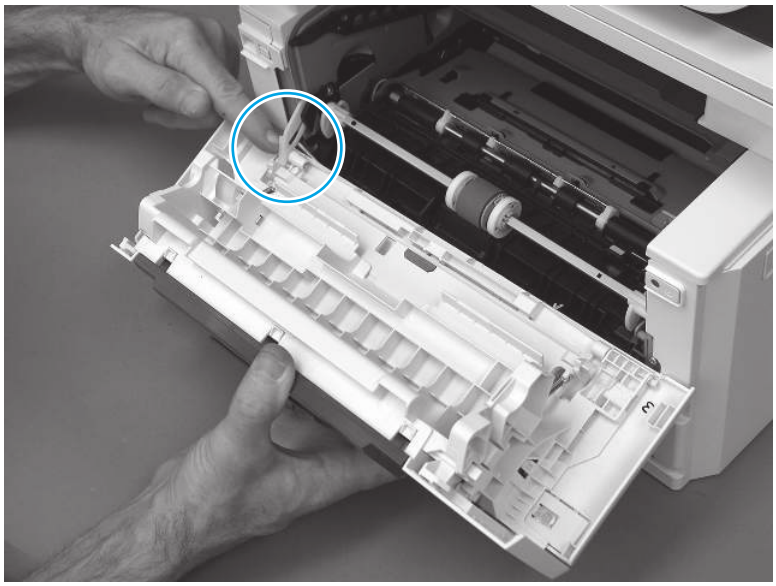
Keep a finger pressed on the left-side retainer arm so that it does not disengage from the door.

Figure 1-302 Release the door



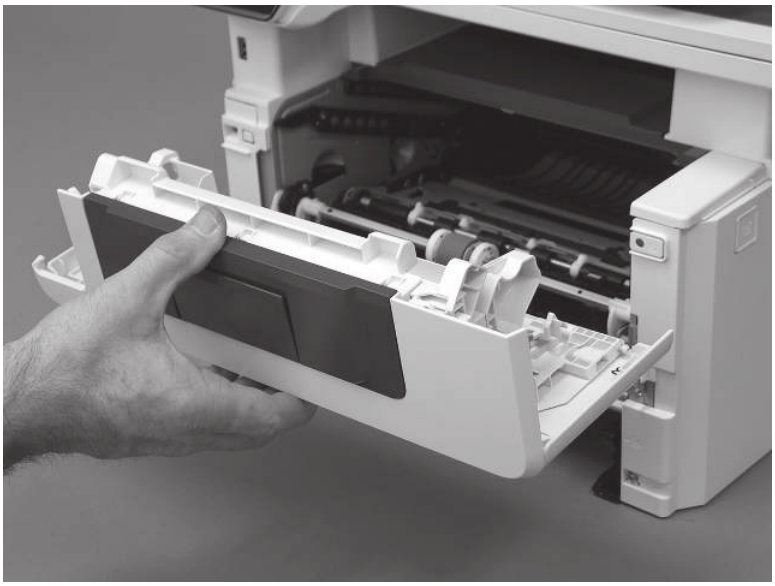
f. Rotate the door away from the printer until the keyed pin on the left-side retainer arm can disengage from the door.

Figure 1-303 Release the left-side retainer arm



g. Remove the door.

Figure 1-304 Remove the door



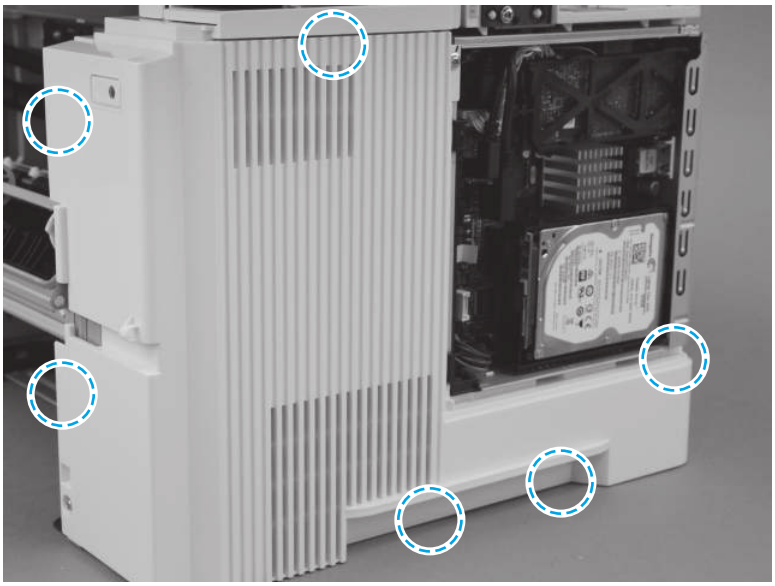
7. Remove the right cover.

IMPORTANT: The black-plastic cassette front and rear guides (located inside the tray cavity) can be easily dislodged. Do not lose the guides when the cover is removed or installed.

An MFP printer is shown in this section. However, the procedure is correct for all printer models.

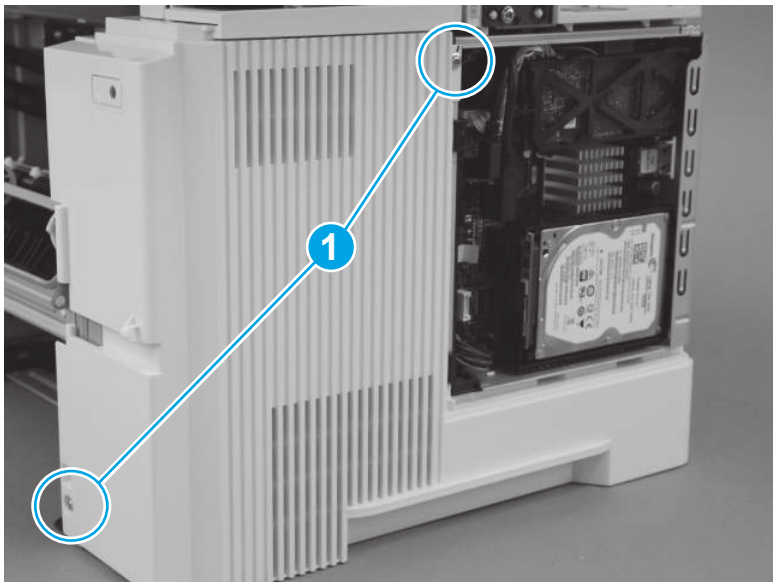
a. Before proceeding, take note of the location of the tabs and bosses on the inside of the cover.

Figure 1-305 Locate the tabs and bosses



b. Remove two screws (callout 1).

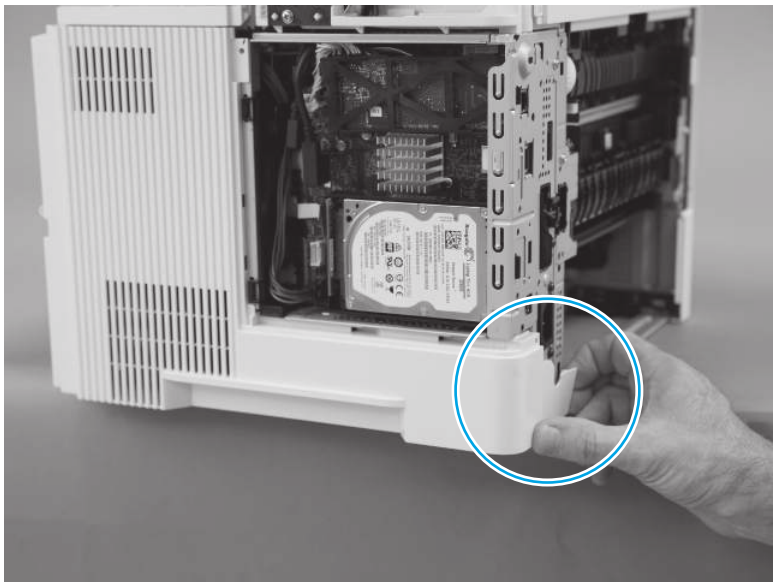
Figure 1-306 Remove two screws



c. At the rear of the printer, release one boss.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

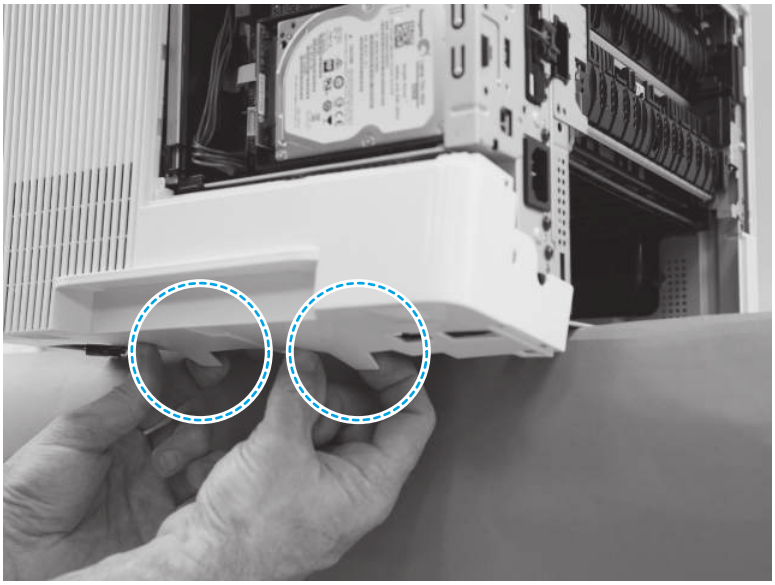
Figure 1-307 Release one boss



d. At the bottom edge of the cover, release two bosses.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

Figure 1-308 Release two bosses

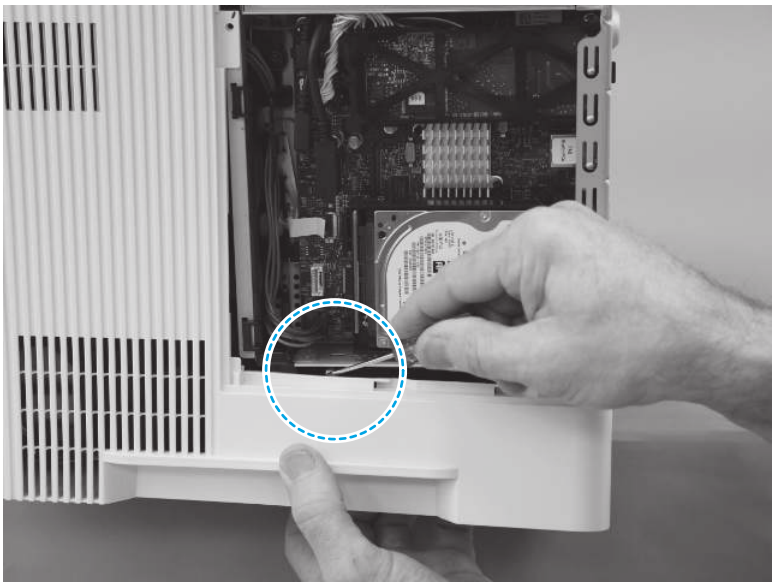


e. Near the formatter, release one tab.

CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

TIP: Hold the bottom of the cover away from the printer, and then use a small flat-blade screw driver to easily release this tab.

Figure 1-309 Release one tab

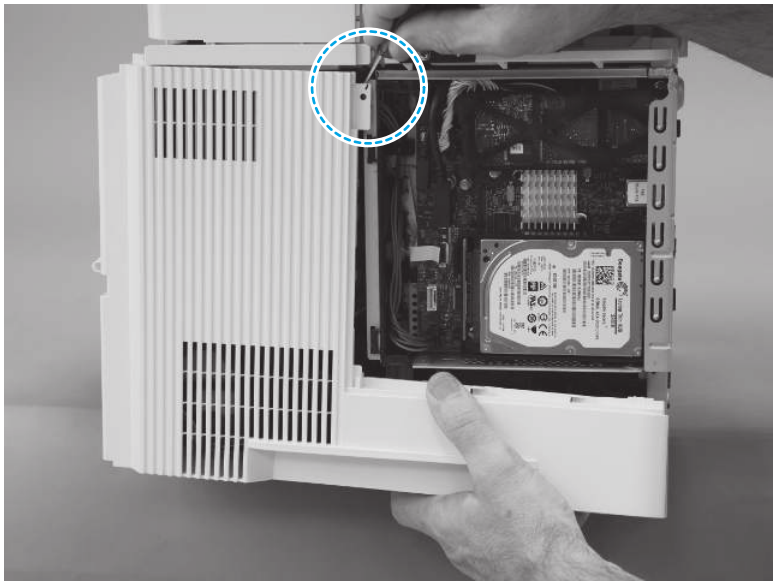


f. At the top rear edge of the cover, release one tab.

CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

TIP: Use a small flat-blade screw driver to easily release this tab.

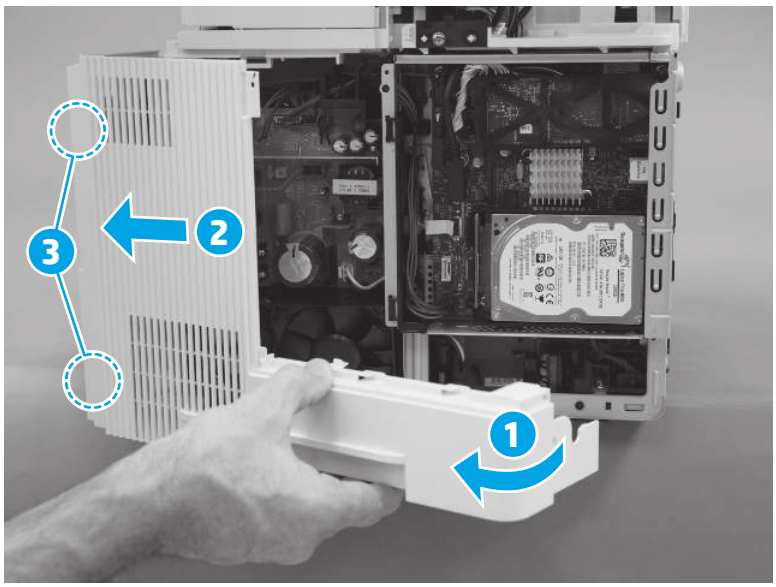
Figure 1-310 Release one tab



g. Rotate the rear of the cover away from the printer (callout 1), slide the cover toward the front of the printer (callout 2) to release two bosses (callout 3), and then remove the cover.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

Figure 1-311 Remove the cover



8. Remove the left cover.

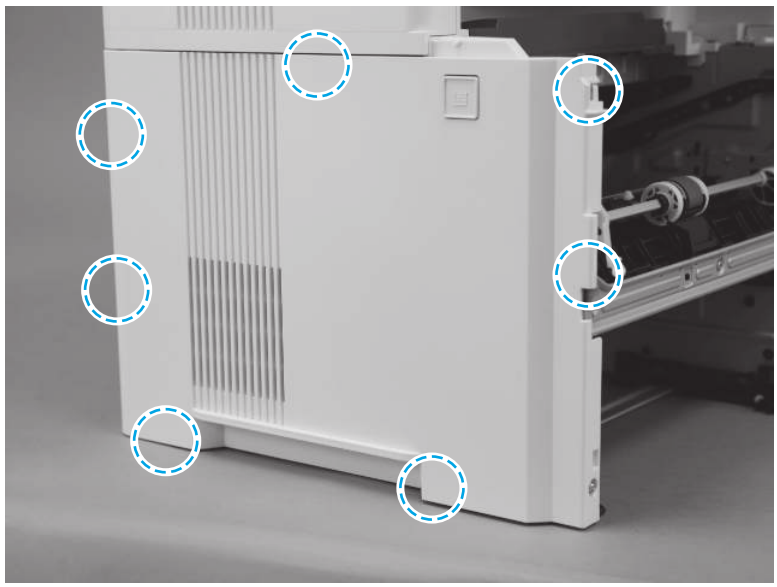
IMPORTANT: The black-plastic cassette front and rear guides (located inside the tray cavity) can be easily dislodged. Do not lose the guides when the cover is removed or installed.

NOTE: An MFP printer is shown in this section. However, the procedure is correct for all printer models.

a. Before proceeding, take note of the location of the tabs and bosses on the inside of the cover.

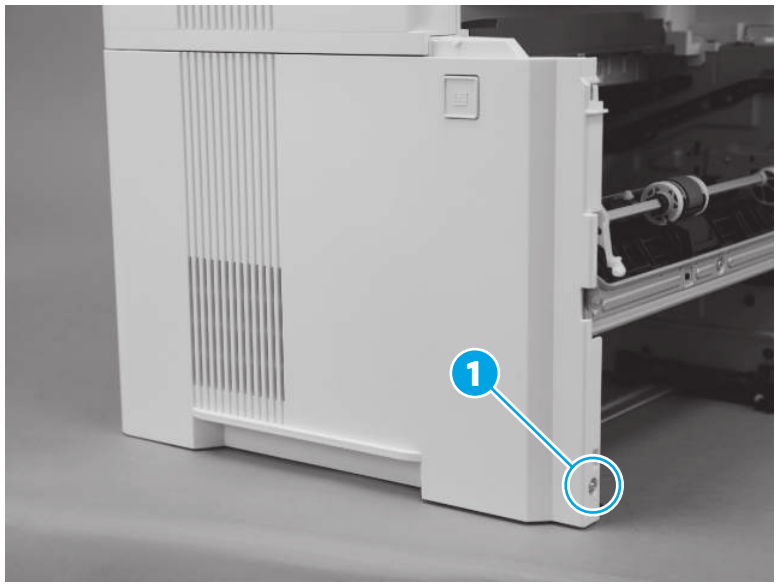
Reinstallation tip: When reinstalling the cover, take note of the location of the tabs and bosses on the inside of the cover.

Figure 1-312 Locate of the tabs and bosses



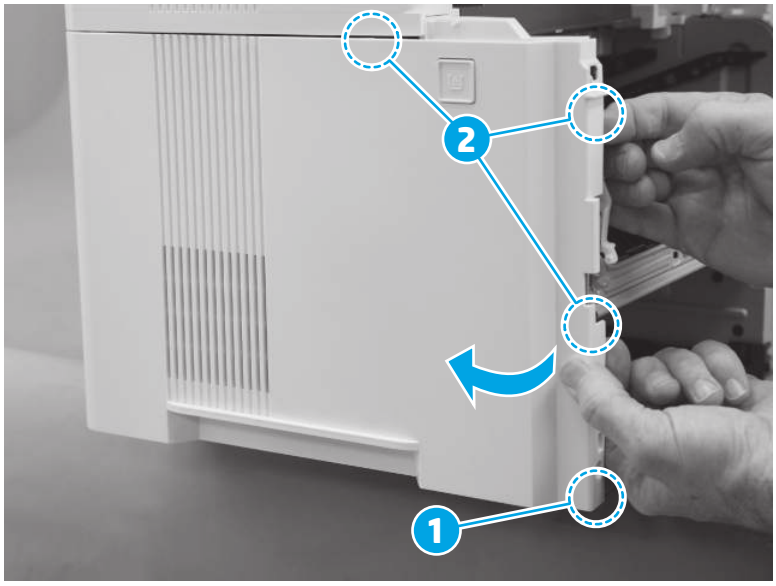
b. Remove one screw (callout 1).

Figure 1-313 Remove one screw



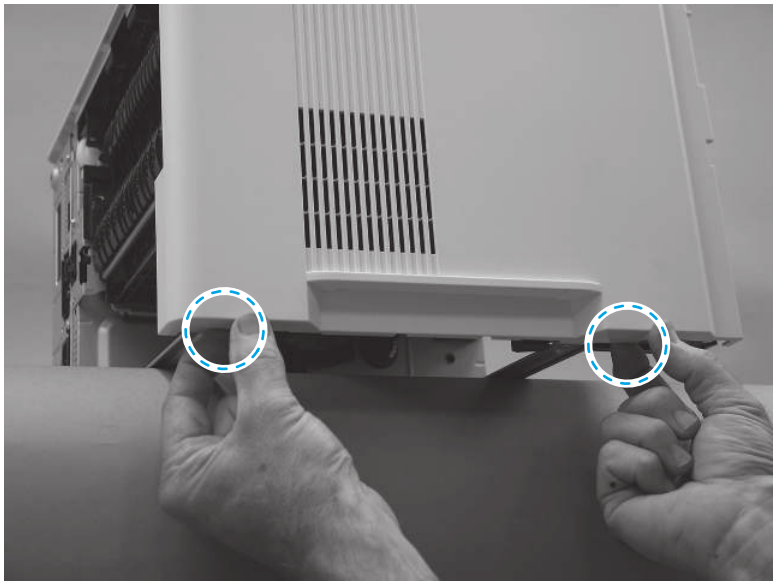
c. At the front of the printer, release one boss (callout 1), and then rotate the front edge of the cover away from the printer to release three tabs (callout 2).

Figure 1-314 Release one boss and three tabs



d. At the bottom edge of the cover, release two tabs.

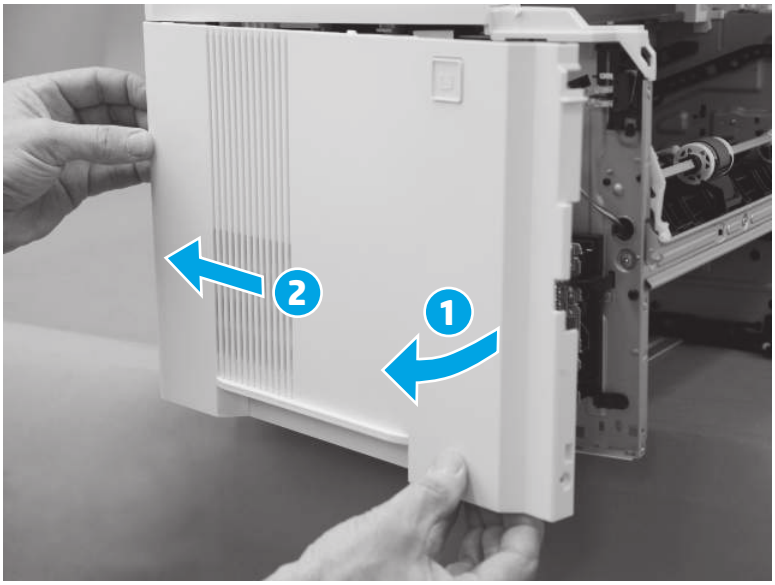
Figure 1-315 Release two tabs



e. Continue to rotate the front edge of the cover away from the printer (callout 1), and then slide the cover toward the rear of the printer (callout 2) to remove it.

NOTE: If the cover is difficult to rotate or slide as shown below, make sure that the bottom tabs (released in the previous step) are completely disengaged from the chassis.

Figure 1-316 Remove the cover

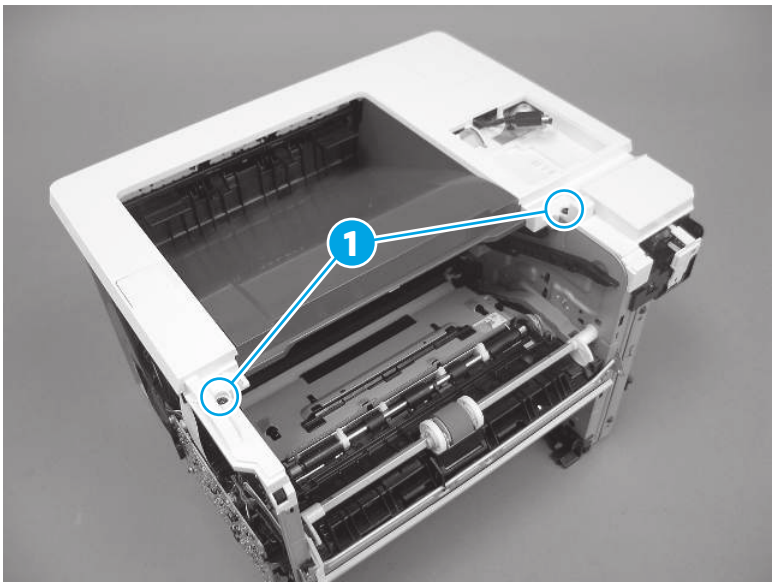


9. Remove the top cover (M501/M506/E50045/M507/E50145).

   The M506x/E50045x is shown in this procedure. However, the steps are correct for all M506/E50045/M507/E50145 models and the M501 printer.

   a. Remove two screws (callout 1).

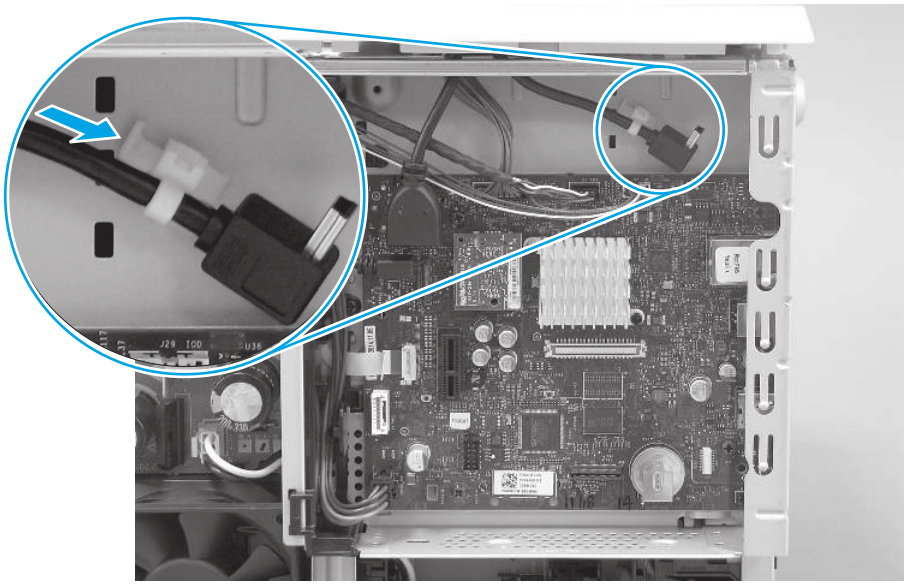
   Figure 1-317 Remove two screws



   b. **M506/E50045/ only**: Release one cable retainer from the chassis.

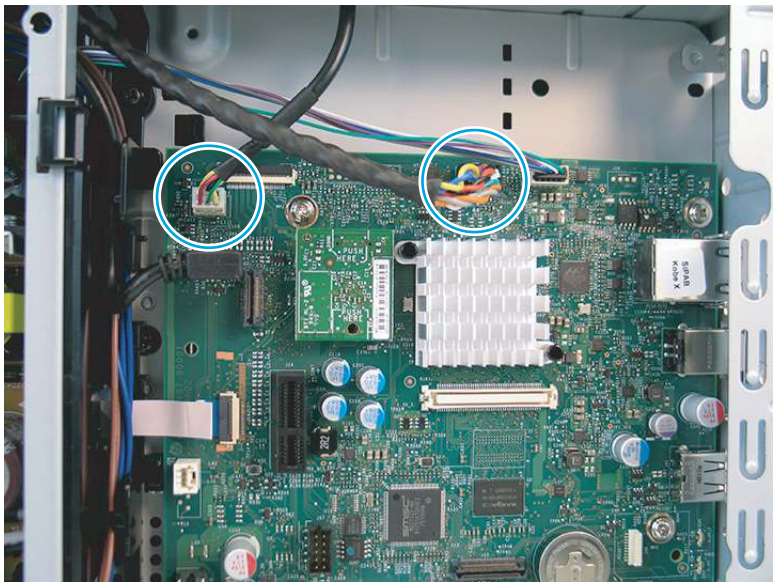
   TIP: Depress the tab on the retainer to release it.

Figure 1-318 Release one cable retainer



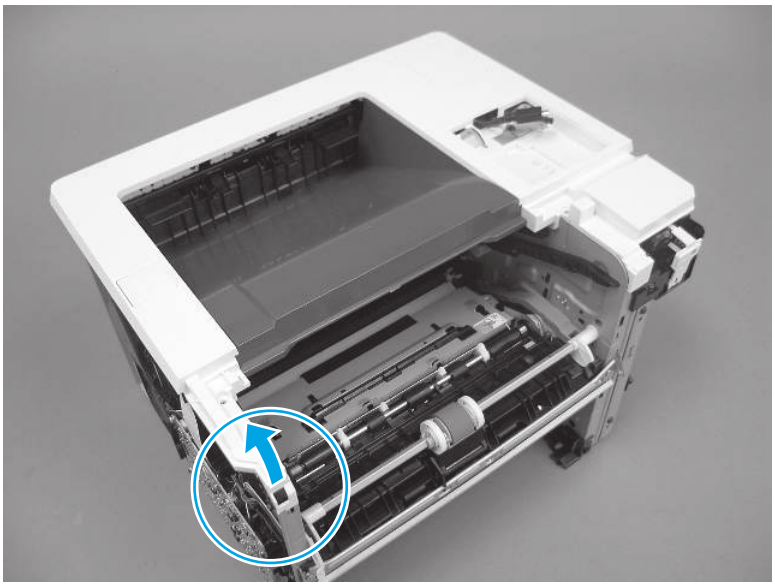
c. **M507/E50145 only**: Disconnect two connectors.

Figure 1-319 Disconnect two connectors



d. Release one boss.

Figure 1-320 Release one boss

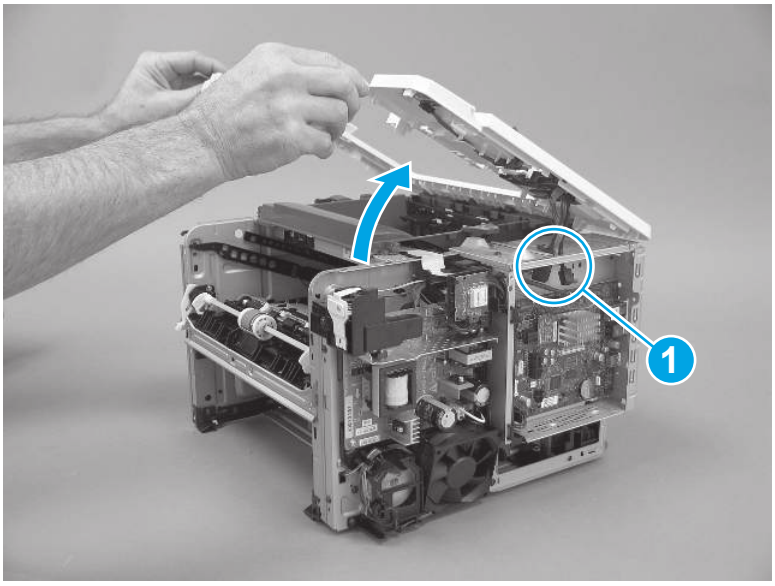


e. **M506/E50045/ only**: Rotate the front of the cover up and away from the printer, and then remove the cover.

⚠ **CAUTION: M506x/E50045x only**: As the cover is rotated up, carefully pass the cables the hole in the chassis (callout 1).

NOTE: LCD control panel models only: Disconnect the control panel before removing the cover.

Figure 1-321 Remove the cover (M506/E50045)



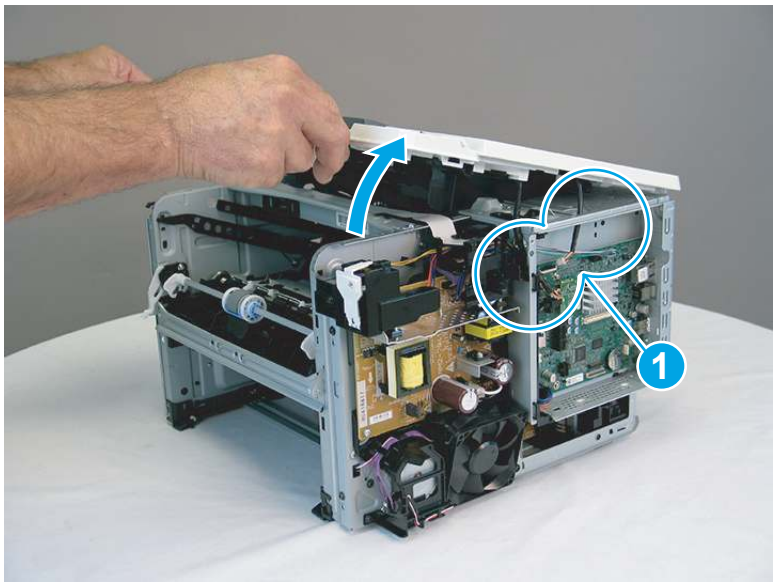
f. **M507/E50145only**: Rotate the front of the cover up and away from the printer, and then remove the cover.

⚠ **CAUTION: M507x/E50145x only**: As the cover is rotated up, carefully pass the cables the hole in the chassis (callout 1).

IMPORTANT: If the top cover is being replaced, make sure to transfer the WiFi PCA from the discarded cover to the replacement cover.

NOTE: **LCD control panel models only**: Disconnect the control panel before removing the cover.

Figure 1-322 Remove the cover (M507/E50145)



10. Unpack the replacement assembly.

    a. Dispose of the defective part.

    NOTE: HP recommends responsible disposal of the defective part.

    http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

    b. Unpack the replacement part from the packaging.

    CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

    If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

    IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

    c. To install an assembly, reverse the removal steps.

    NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Removal and replacement: Paper delivery tray (output bin)

Learn how to remove and replace the paper delivery tray (output bin).

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the paper delivery tray (output bin).

Mean time to repair: 8 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

> ⚠ **WARNING!** To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-25 Part information

Part number	Part description
RC4-4439-000CN	Paper delivery tray (output bin)

Required tools

- #2 Phillips screwdriver with a magnetic tip and a 152 mm (6 in) shaft length
- Small flat-blade screwdriver

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

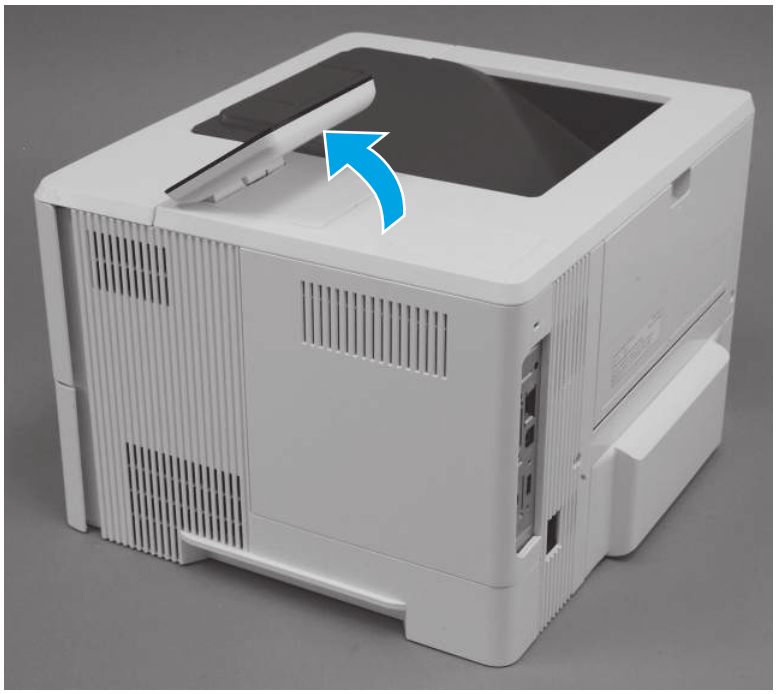
Post service test

No post service test is available for this assembly.

1. Remove the control panel (M506x/E50045x/M507x/E50145x).

a. Tilt the control panel to the fully raised position.

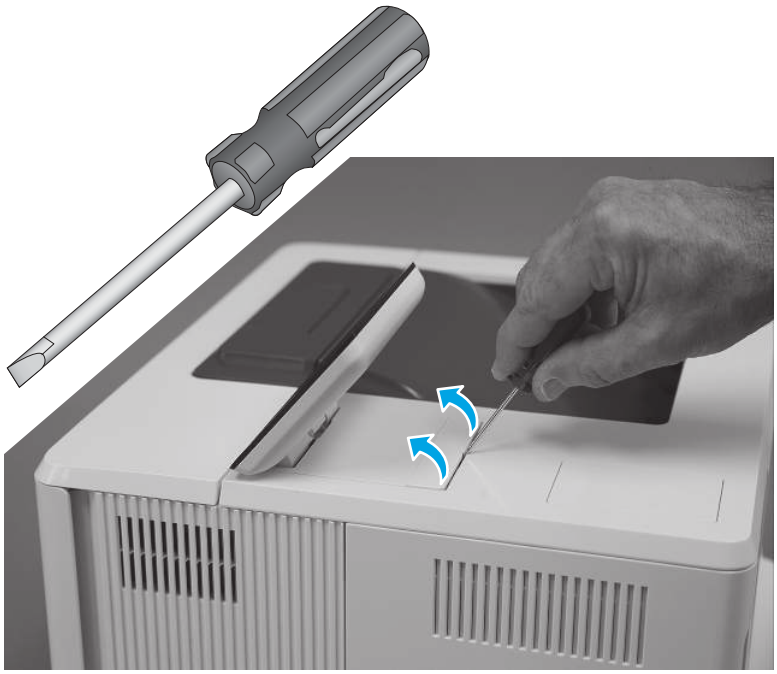
Figure 1-323 Tilt the control panel up



b. Use the small flat-blade screwdriver supplied in the kit to release the control-panel screws cover, and then remove the cover.

TIP: The screwdriver has a reversible shaft. Simply pull the shaft out of the handle, and then reinstall it with the desired end facing out.

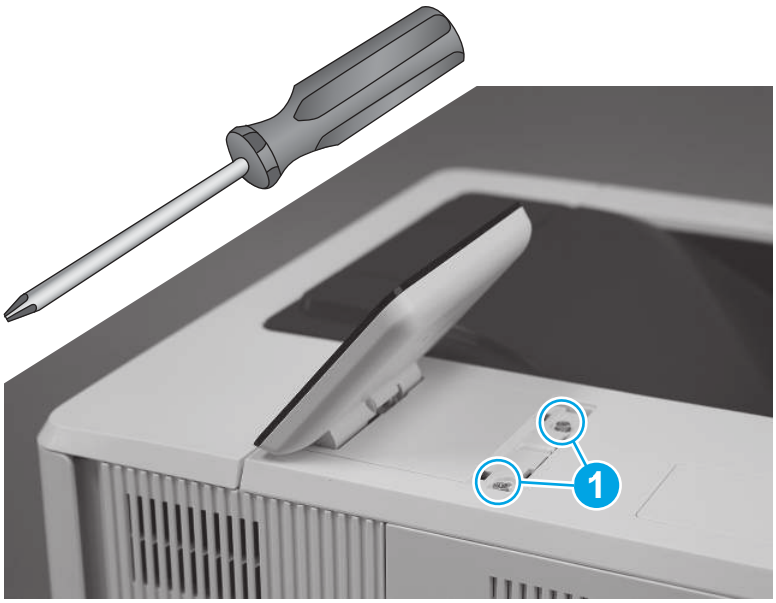
Figure 1-324 Remove the cover



c. Use the small Phillips screwdriver supplied in the kit to remove two screws (callout 1).

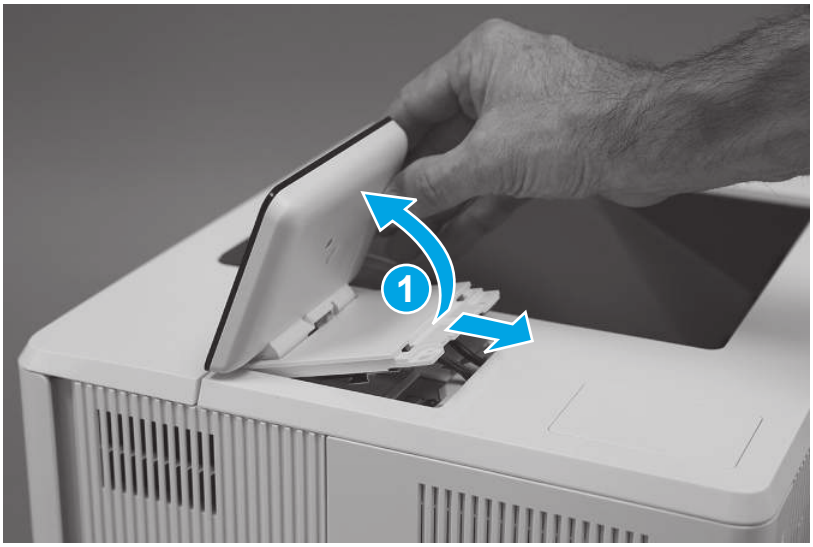
IMPORTANT: Store the screws in a secure place where they cannot fall down into the printer.

Figure 1-325 Remove two screws



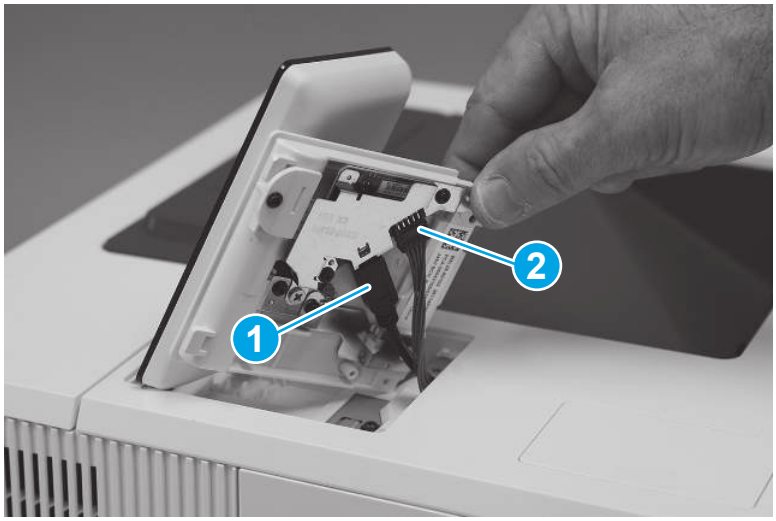
d. Turn the control panel over (callout 1), to gain access to the bottom side.

Figure 1-326 Turn the control panel over



e. **M506/E50045 only**: Disconnect one HDMI cable (callout 1), one connector (callout 2), and then remove the control panel.

Figure 1-327 Remove the control panel (M506/E50045)



f. **M507/E50154 only**: If the formatter cover has not been removed, remove it now. Disconnect one flat-flexible cable (FFC).

⚠ CAUTION: ESD sensitive part.

NOTE: This connector is a zero-insertion force (ZIF) connector. Open the locking clip. The clip is easily dislodged and lost.

Figure 1-328 Disconnect one FFC (M507/E50145)

g. **M507/E50145 only**: Pass the FFC through the opening in the cover, and then remove the control panel.

⚠ CAUTION: ESD sensitive part.

Figure 1-329 Remove the control panel (M507/E50145)

2. Remove the tray.

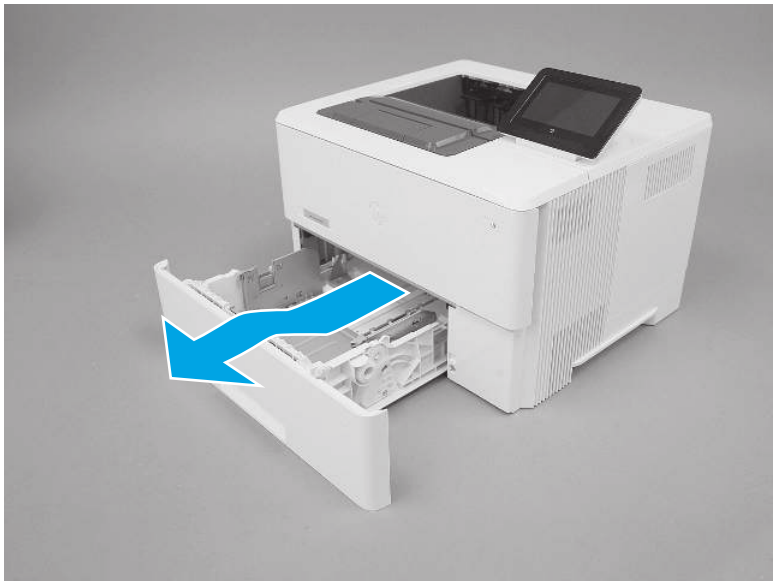
   a. Pull the tray straight out of the printer until it stops.

   Figure 1-330 Pull the tray out until it stops

   b. Lift the front of the tray, and then pull it out of the printer to remove it.

NOTE: If the tray has Fixed Tray Guides installed and are still required, move the hardware to new tray. If necessary, order new kit: 3GY19-67901 Kit-Fixed Tray Guide. Only one kit required per engine.

Figure 1-331 Release and remove the tray

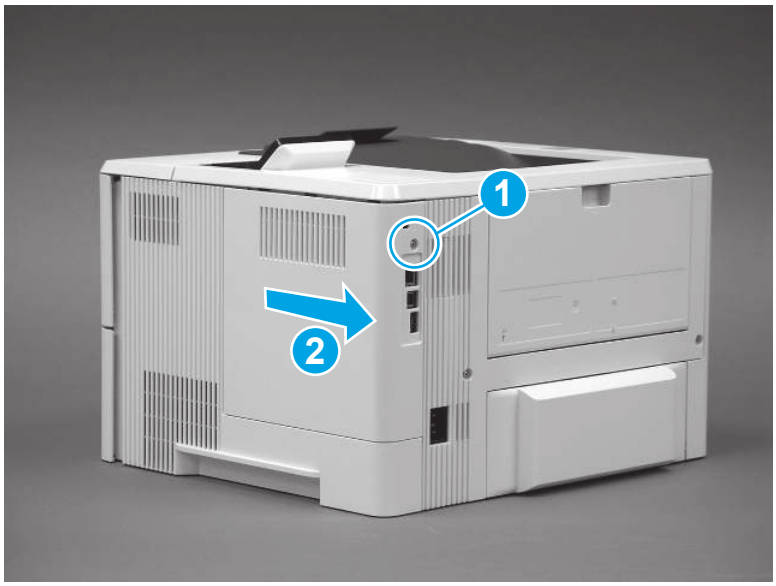


3. Remove the formatter cover.

▲ Do one of the following:

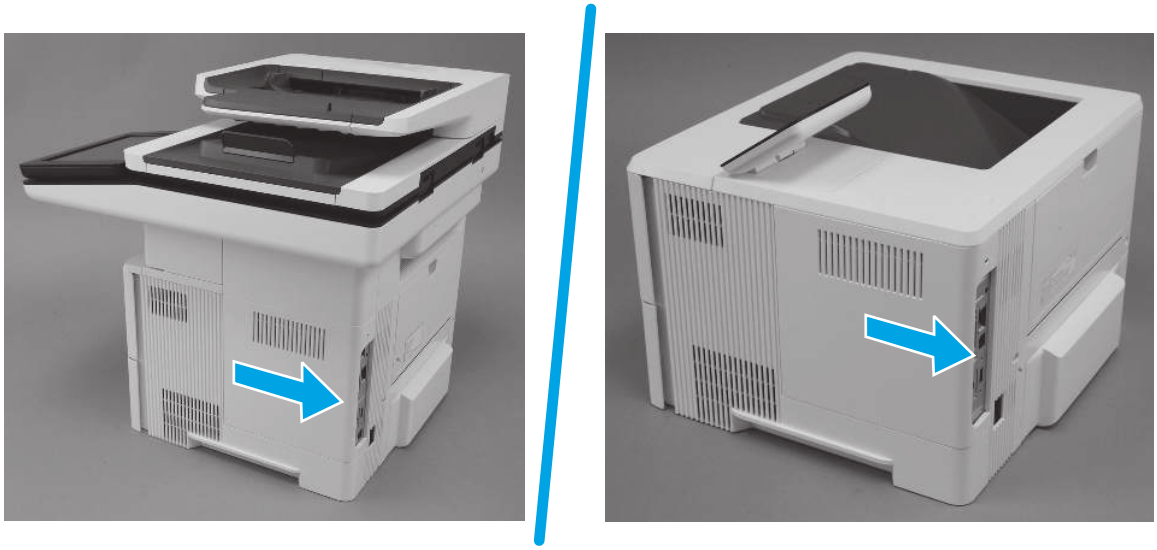
- M501: Remove one screw (callout 1), and then slide the cover toward the rear of the printer to remove it (callout 2).

Figure 1-332 Remove the formatter cover (M501)



- M506/E50045/M507/E50145/M527/E52545/M528/E52645: Slide the cover toward the rear of the printer to remove it.

Figure 1-333 Remove the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)

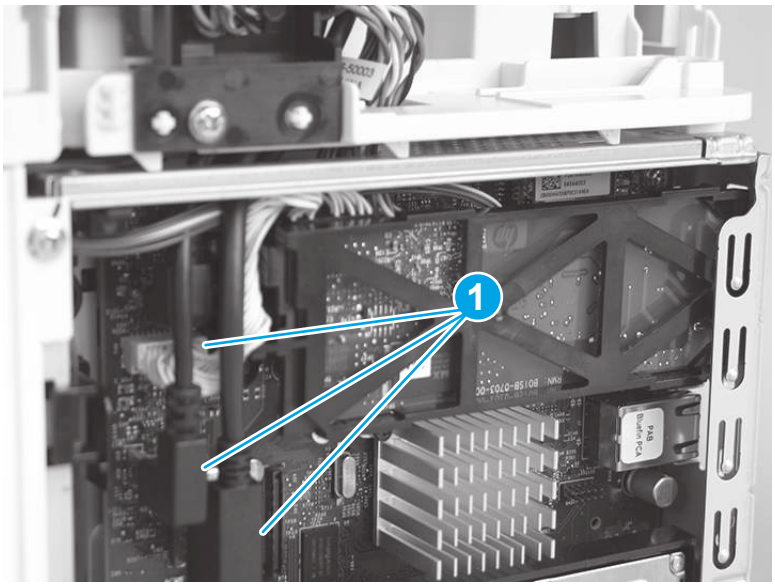


4. Remove the fax PCA (M527/E52545/M528/E52645 fax models).

⚠ CAUTION: ESD-sensitive part.

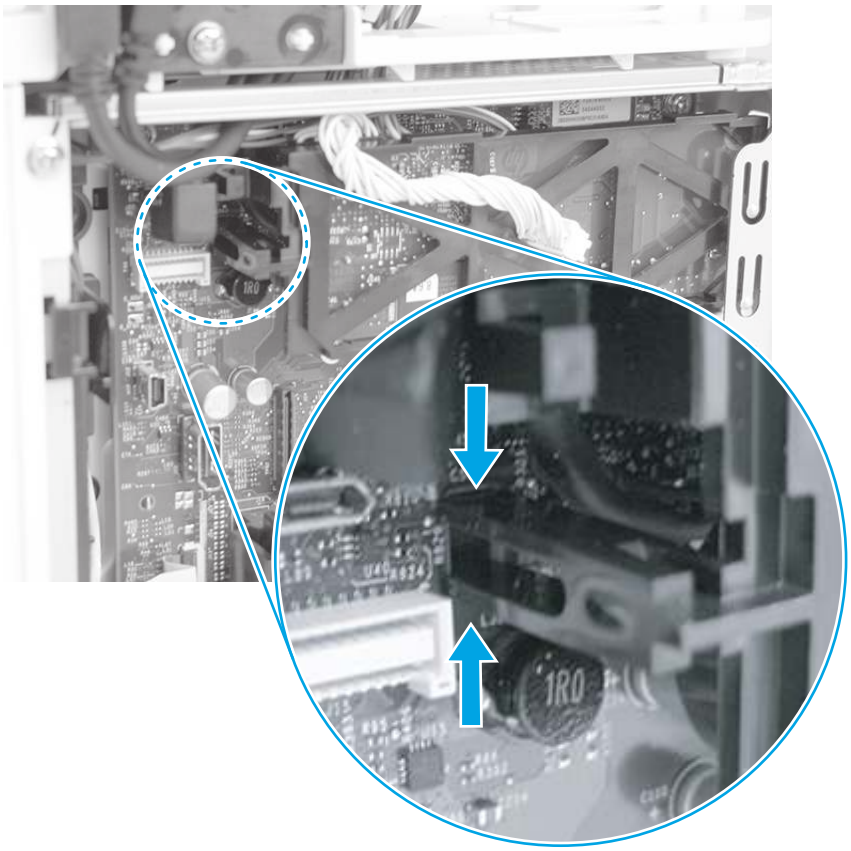
a. Disconnect three connectors (callout 1).

Figure 1-334 Disconnect three connectors



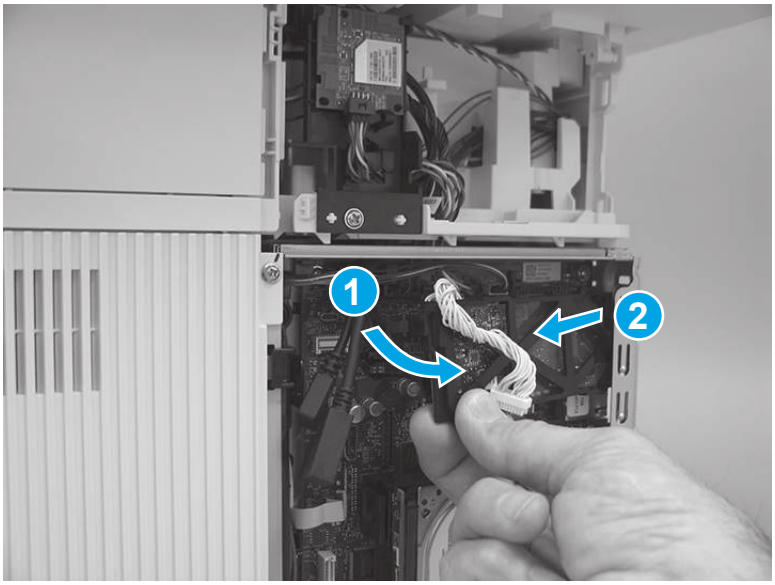
b. Pinch the retainer to release it.

Figure 1-335 Release the fax PCA



c. Rotate the connector end of the fax PCA out and away from the formatter (callout 1), and then slide it as shown (callout 2) to remove it.

Figure 1-336 Remove the fax PCA

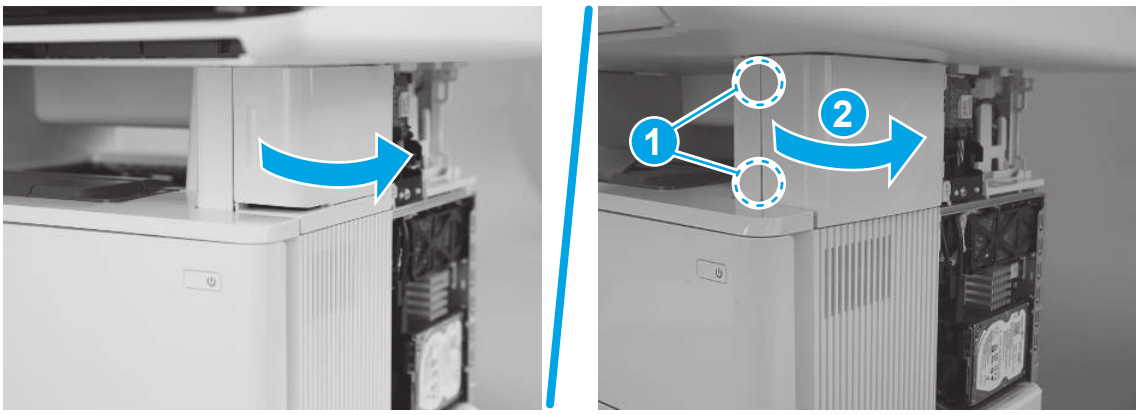


5. Remove the stapler door or stapler blank cover (M527/E52545/M528/E52645).

a. Do one of the following:

- **Stapler models**: Open the stapler door.
- **Non-stapler models**: Use a small flat-blade screw driver to release two tabs (callout 1), and then rotate the cover away from the printer (callout 2).

Figure 1-337 Open the door or release the cover



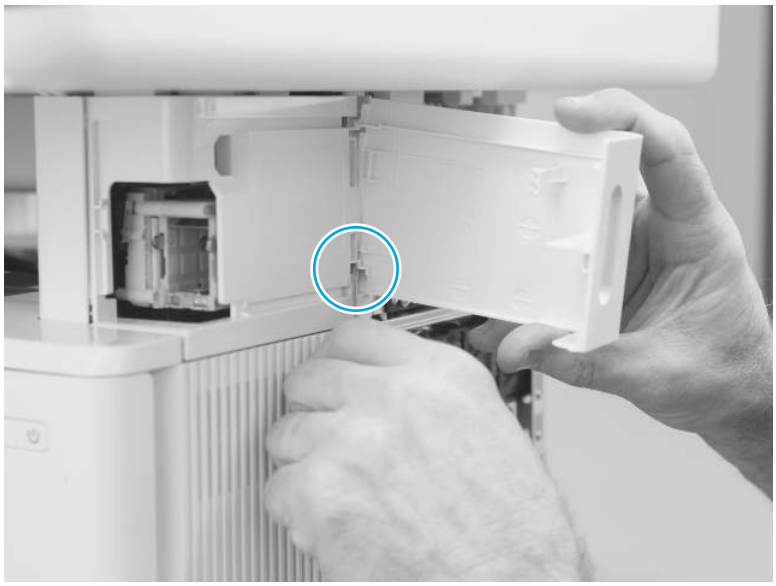
b. Do one of the following:

- **Stapler models**: Use a small flat-blade screwdriver to release the upper hinge.
- **Non-stapler models**: Slide the cover toward the front of the printer to remove it.

Figure 1-338 Release the upper hinge or remove the cover

c. **Stapler models**: Use a small flat-blade screwdriver to release the lower hinge.

Figure 1-339 Release the lower hinge



d. **Stapler models**: Remove the door.

Figure 1-340 Remove the door

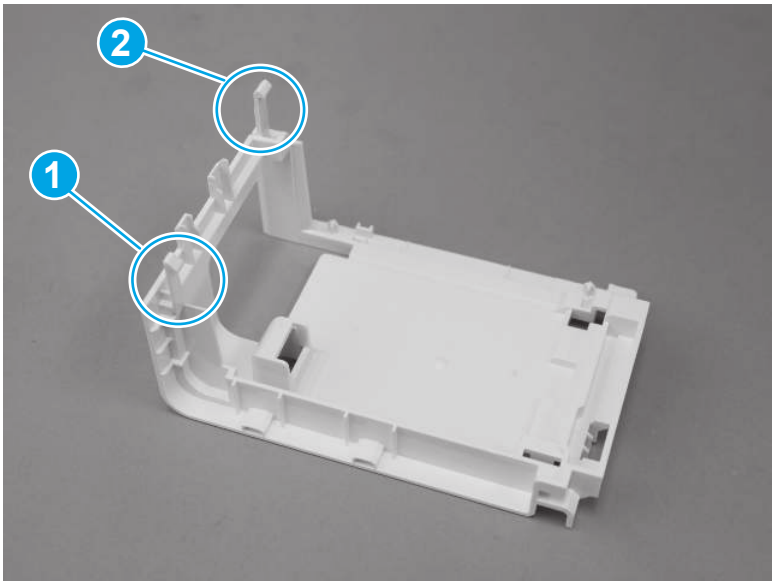
6. Remove the stapler stationary (inner) cover (M527/E52545/M528/E52645).

NOTE: Stapler models only.

a. Before proceeding, take note of the locations of the upper tab (callout 1) and the lower tab (callout 2) on the stapler stationary (inner) cover.

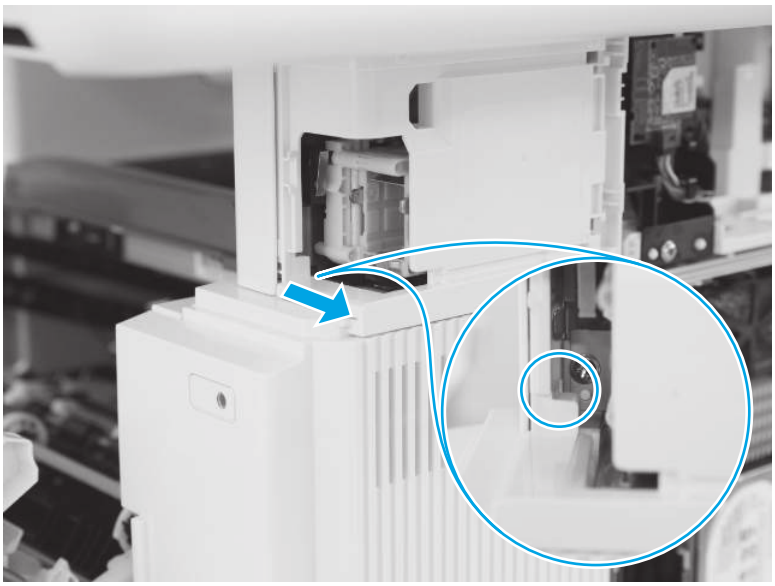
Reinstallation tip: When reinstalling the cover, take note of the location of the tabs.

Figure 1-341 Locate the tabs



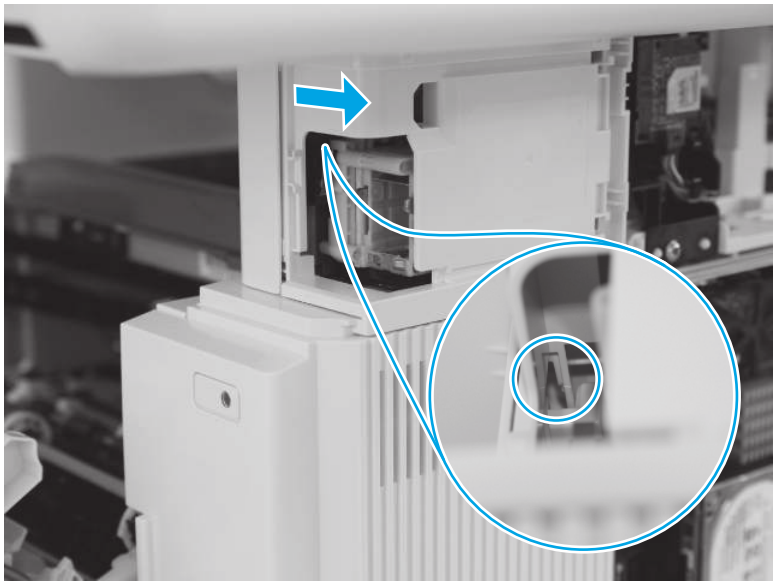
b. Use a long-shaft small flat-blade screwdriver to release the lower tab.

Figure 1-342 Release one tab



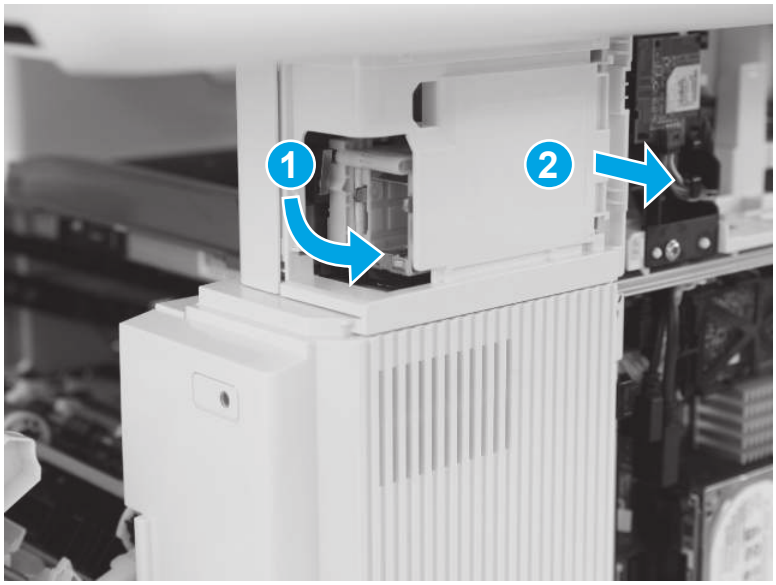
c. Use a long-shaft small flat-blade screwdriver to release the upper tab.

Figure 1-343 Release one tab



d. With the tabs disengaged the front of the cover is released. Rotate the front of the cover away from the printer (callout 1) to release the rear of the cover (callout 2), and then remove it.

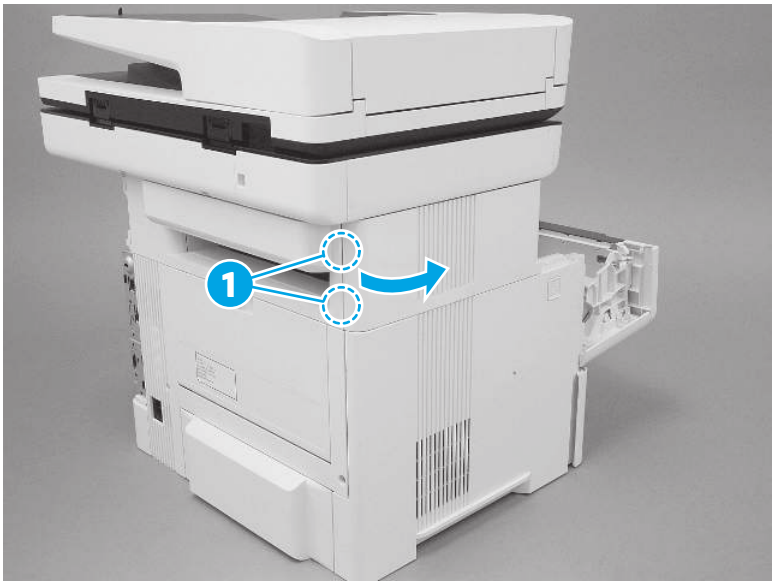
Figure 1-344 Remove the cover



7. Remove the top-left cover (M527/E52545M528/E52645).

a. Open the toner-cartridge door, release two tabs (callout 1), and then rotate the rear edge of the cover away from the printer.

Figure 1-345 Release two tabs



b. Continue to rotate the cover away from the printer to release two more tabs at the middle of the cover.

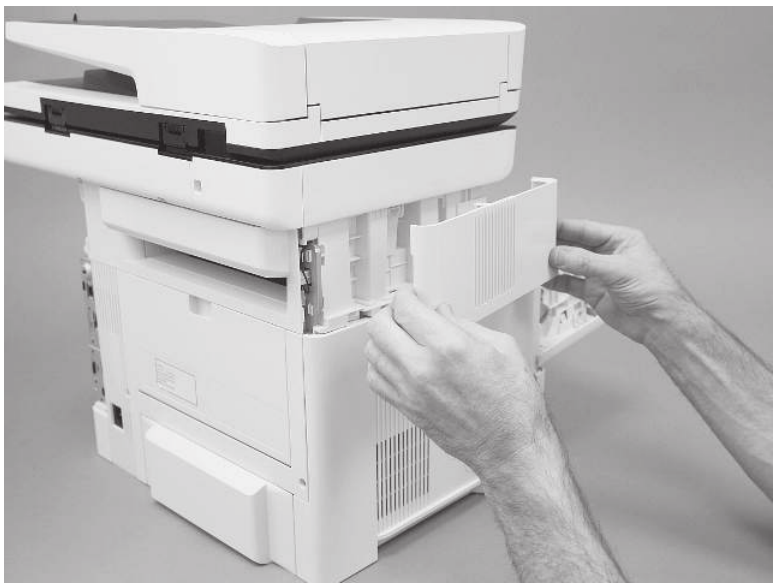
Figure 1-346 Release two tabs

c. Slide the cover toward the rear of the printer to release two bosses at the front of the cover.

Figure 1-347 Slide the cover

d. Remove the cover.

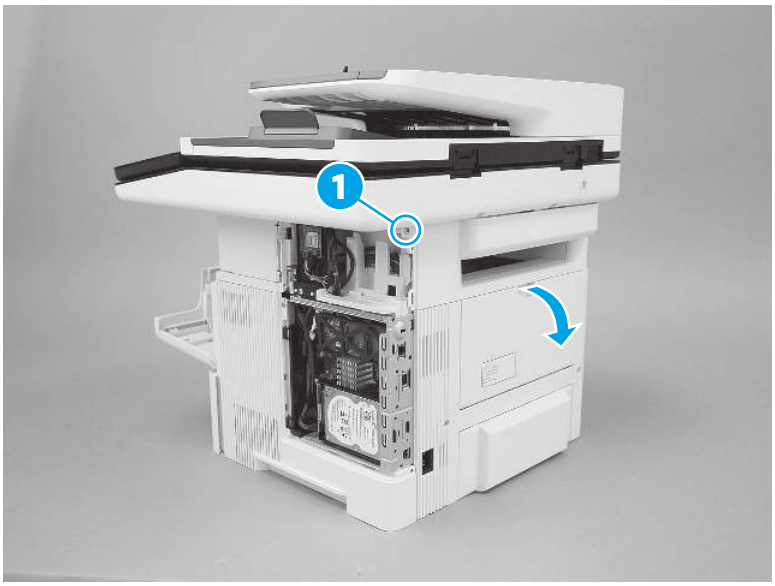
Figure 1-348 Remove the cover



8. Remove the top-rear cover (M527/E52545/M528/E52645).

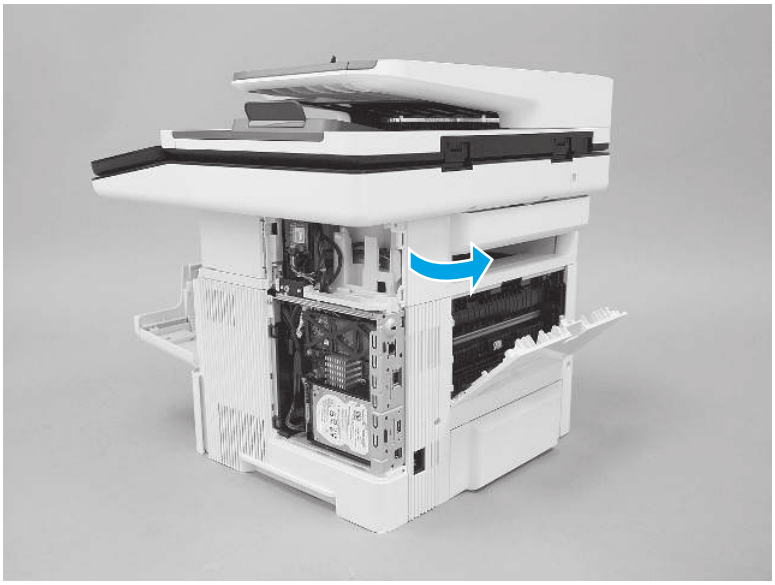
a. Remove one screw (callout 1), and then open the rear door.

Figure 1-349 Remove one screw



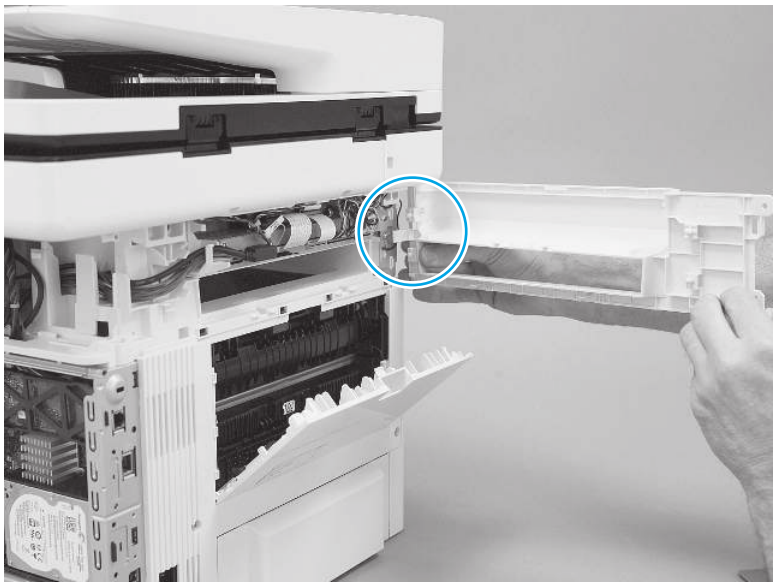
b. Rotate the exposed edge of the cover away from the printer (as shown).

Figure 1-350 Rotate the cover



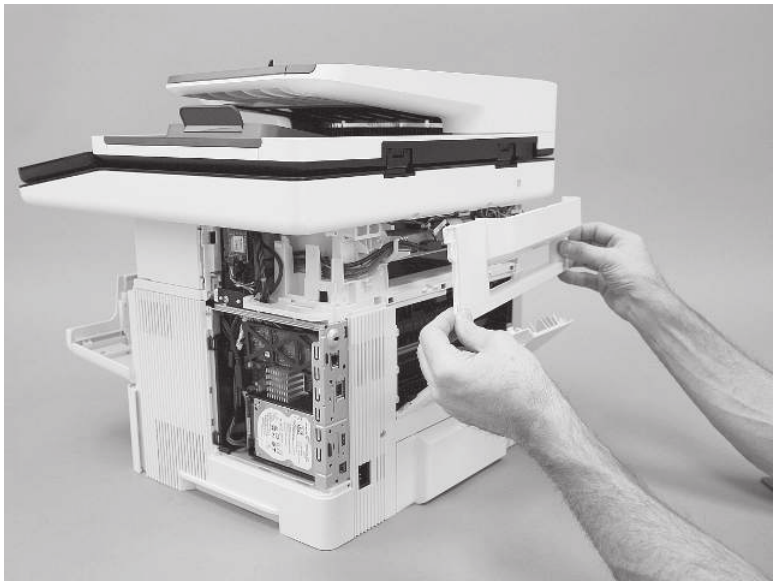
c. Continue to rotate the cover away from the printer to release one boss.

Figure 1-351 Release one boss



d. Remove the cover.

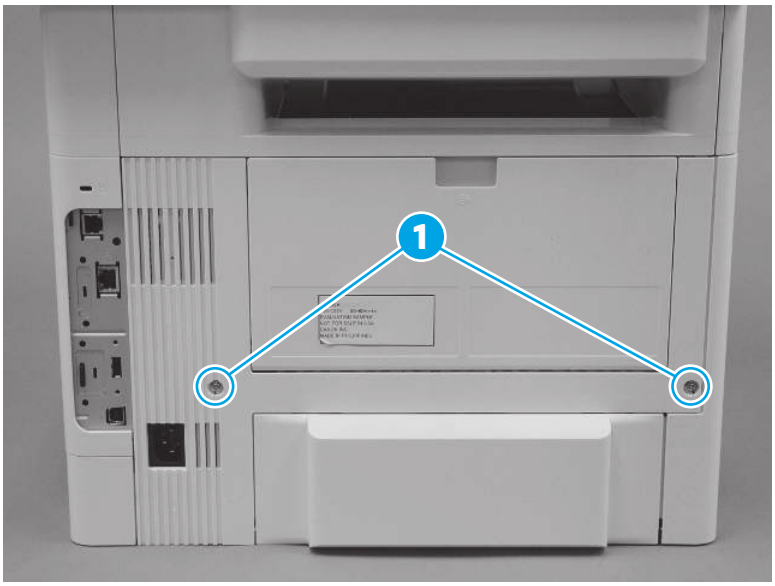
Figure 1-352 Remove the cover



9. Remove the rear door assembly.

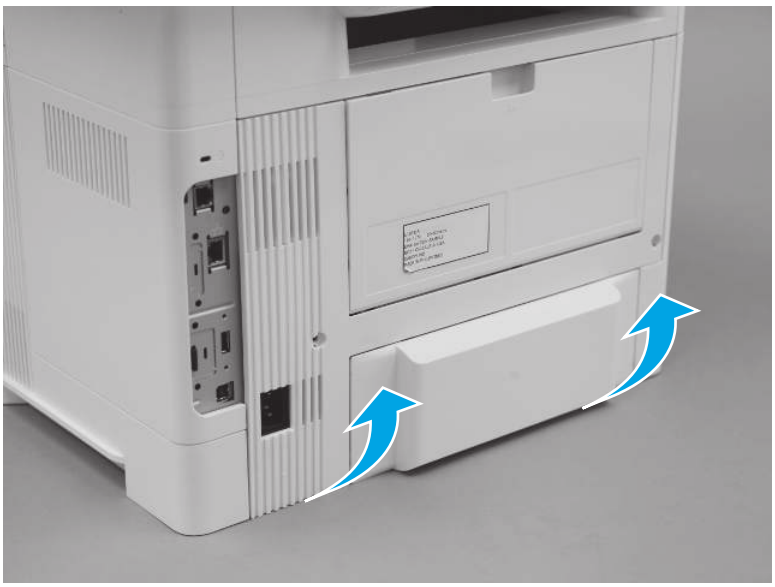
a. At the rear of the printer, remove two screws (callout 1).

Figure 1-353 Remove two screws



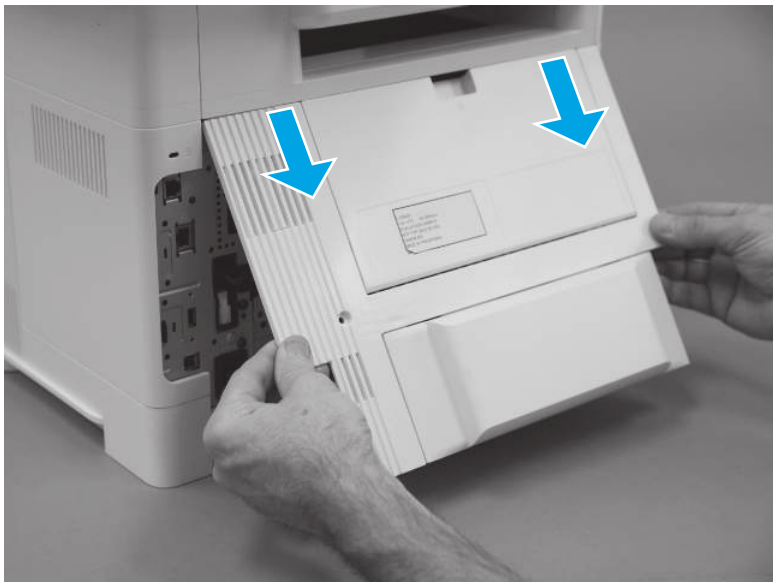
b. Rotate the bottom edge of the assembly away from the printer to release it.

Figure 1-354 Rotate the bottom of the cover



c. Pull down on the assembly to remove it.

Figure 1-355 Remove the cover



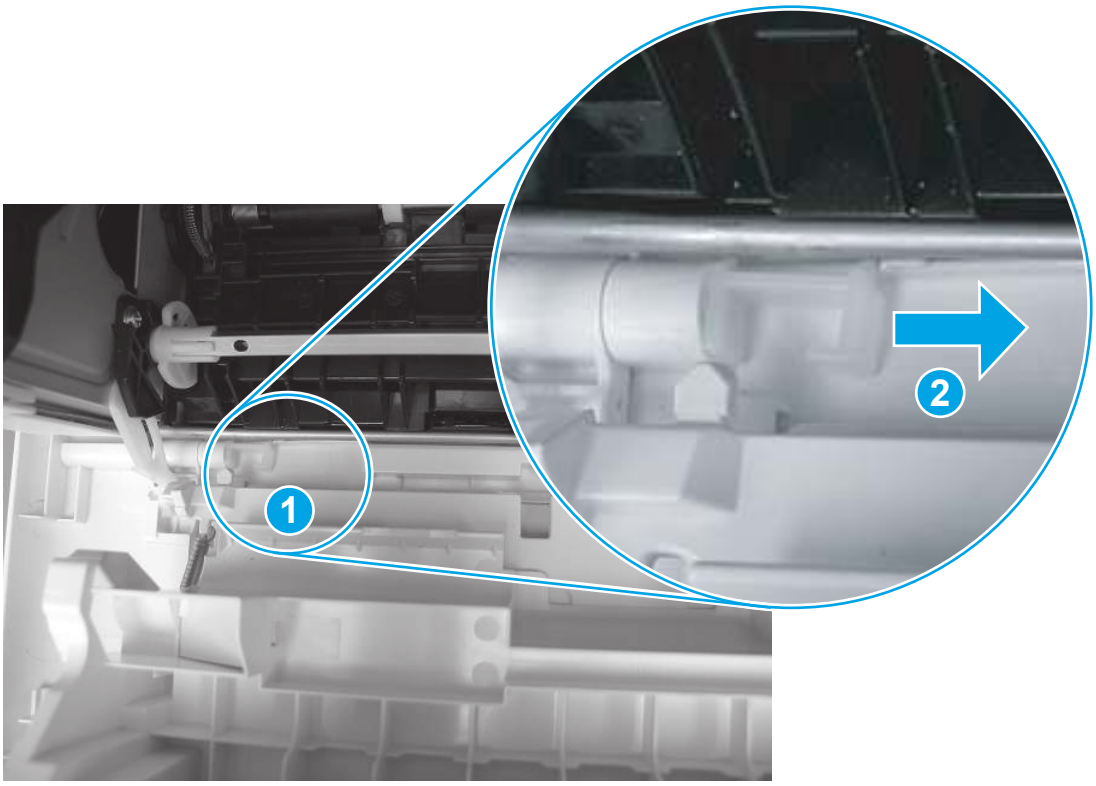
10. Remove the cartridge door assembly.

NOTE: If the toner cartridge was not removed prior to servicing the printer, remove it now.

a. Release the support shaft (callout 1), and then slide it toward the center of the door (callout 2).

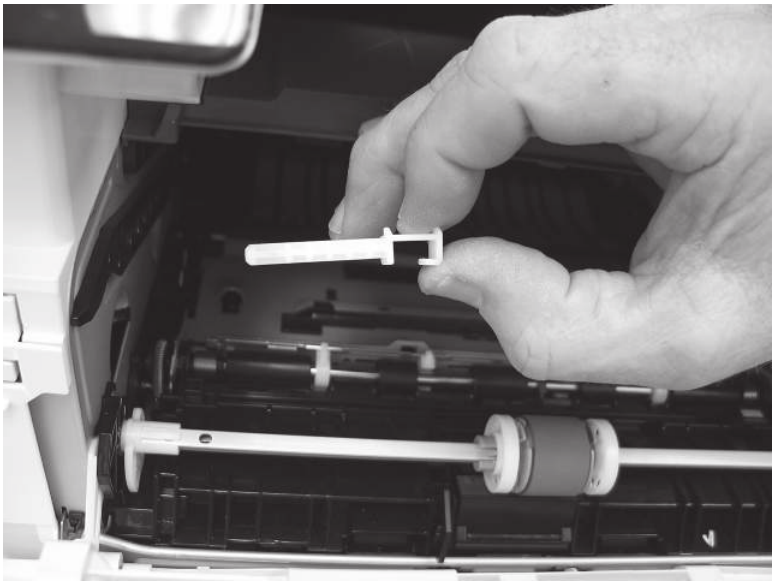
TIP: It might be easier to release the support shaft by using a small flat-blade screwdriver.

Figure 1-356 Release the support shaft



b. Remove the support shaft.

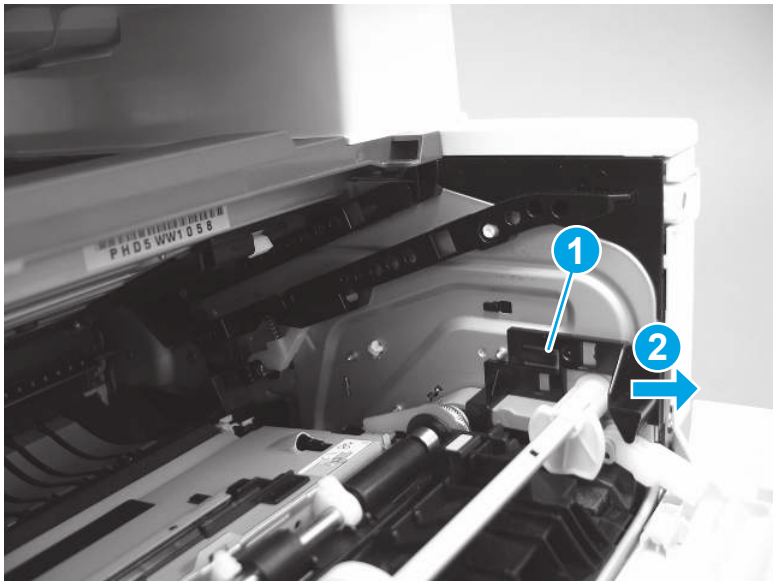
Figure 1-357 Remove the support shaft



c. Release one tab (callout 1), and then slide the guide out of the printer (callout 2).

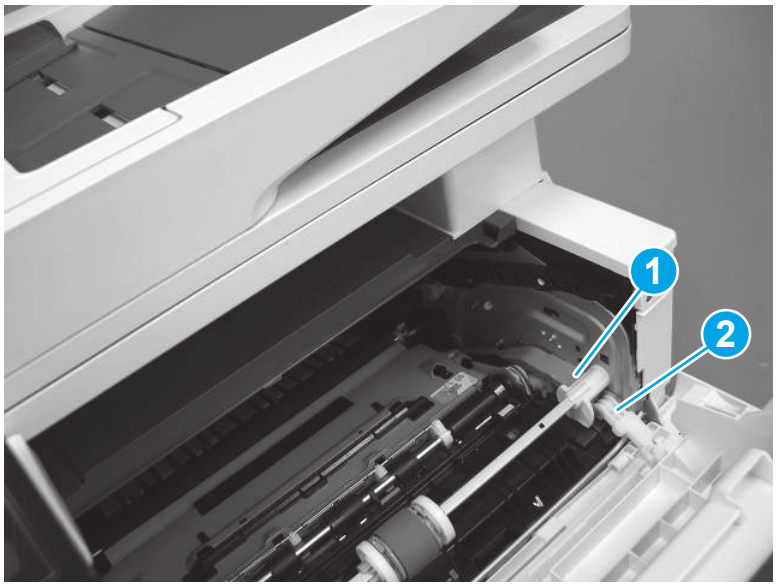
⚠ CAUTION: Be careful, the tab (callout 1) can be easily broken.

Figure 1-358 Remove the guide



d. Use a small flat-blade screwdriver to gently pry the white-plastic door arm (callout 1) off of the gray-plastic pressure-release link (callout 2) to release the door arm.

Figure 1-359 Release the pressure-release link



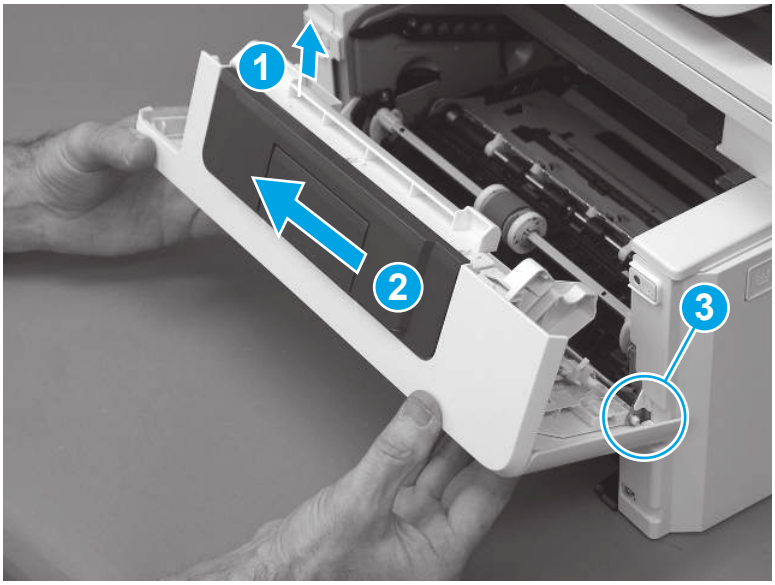
e. With the door in the partially closed position, slightly raise the left end (callout 1; raise it over the sheet-metal hinge boss), and then slide the door to the left (callout 2) to release the right hinge (callout 3).

⚠ CAUTION: The door is still attached to the printer by the left-side retainer arm. Do not attempt to completely remove the door.

Reinstallation tip: When reinstalling the door, there are two right-side hinge pins (not shown in callout 3).

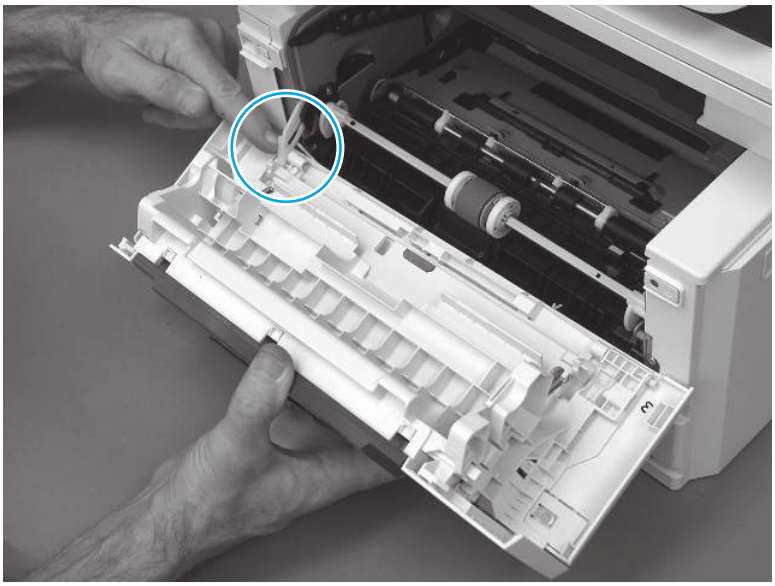
Keep a finger pressed on the left-side retainer arm so that it does not disengage from the door.

Figure 1-360 Release the door



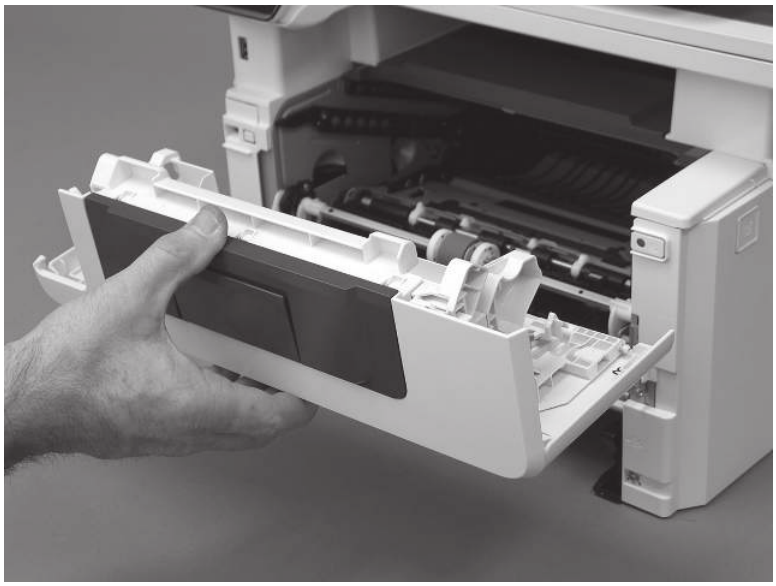
f. Rotate the door away from the printer until the keyed pin on the left-side retainer arm can disengage from the door.

Figure 1-361 Release the left-side retainer arm



g. Remove the door.

Figure 1-362 Remove the door



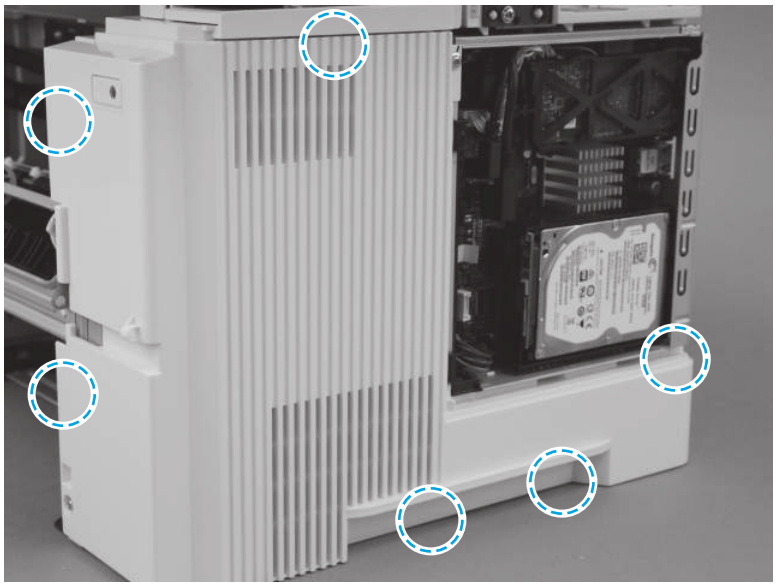
11. Remove the right cover.

IMPORTANT: The black-plastic cassette front and rear guides (located inside the tray cavity) can be easily dislodged. Do not lose the guides when the cover is removed or installed.

An MFP printer is shown in this section. However, the procedure is correct for all printer models.

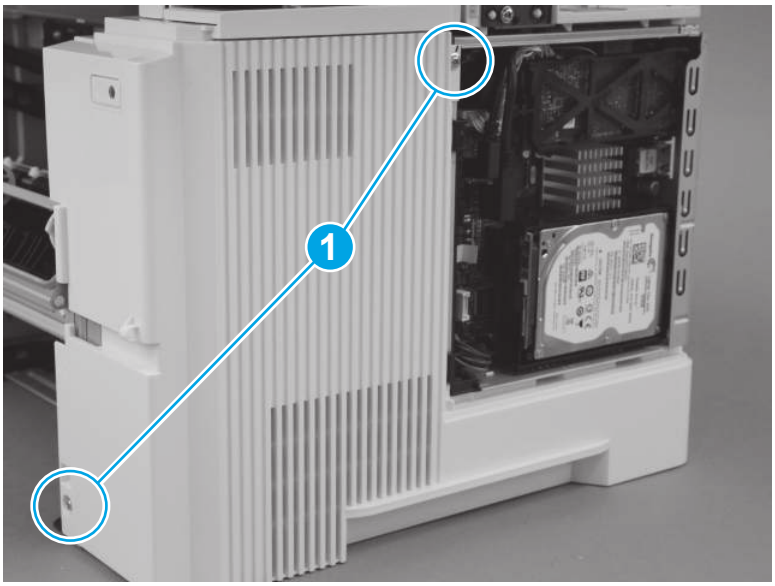
a. Before proceeding, take note of the location of the tabs and bosses on the inside of the cover.

Figure 1-363 Locate the tabs and bosses



b. Remove two screws (callout 1).

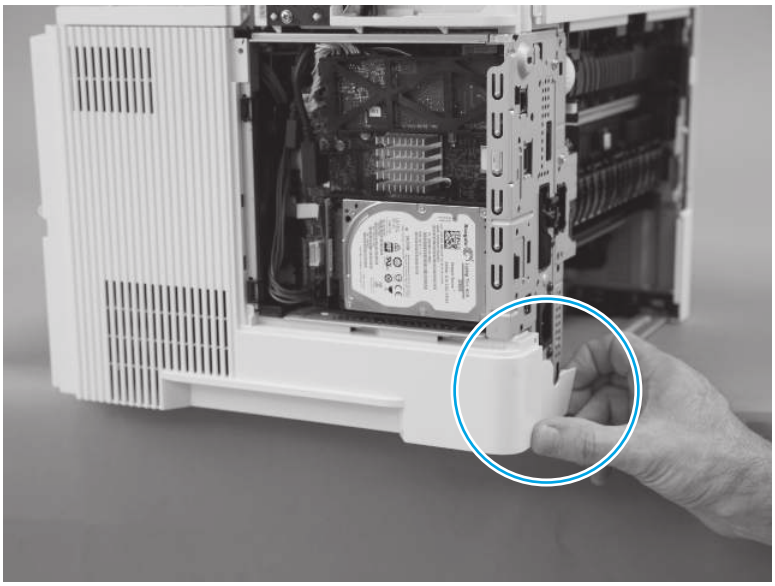
Figure 1-364 Remove two screws



c. At the rear of the printer, release one boss.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

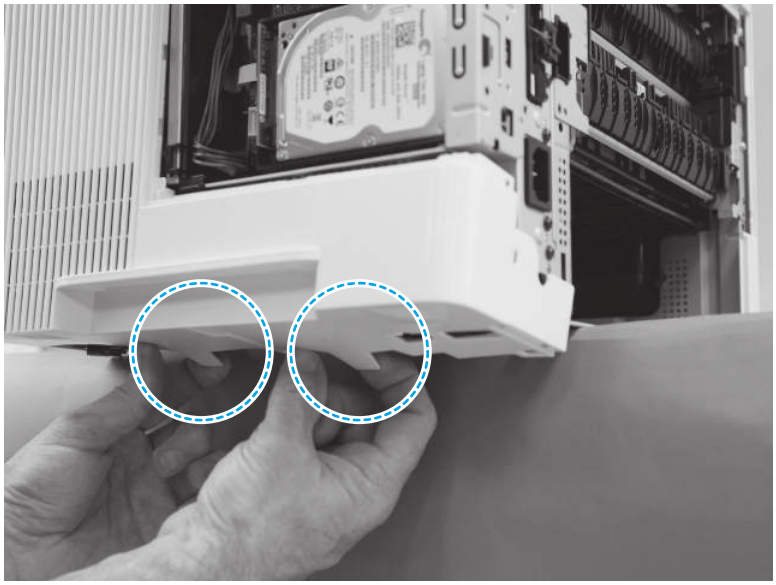
Figure 1-365 Release one boss



d. At the bottom edge of the cover, release two bosses.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

Figure 1-366 Release two bosses

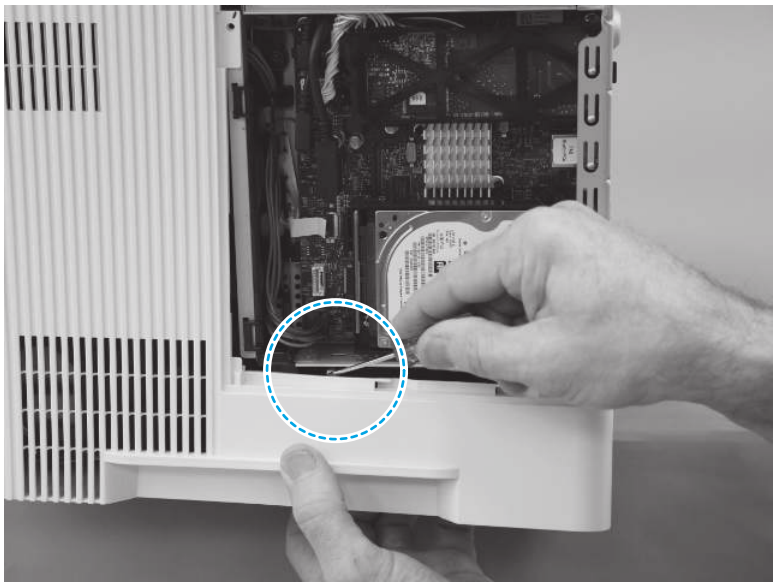


e. Near the formatter, release one tab.

CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

TIP: Hold the bottom of the cover away from the printer, and then use a small flat-blade screw driver to easily release this tab.

Figure 1-367 Release one tab

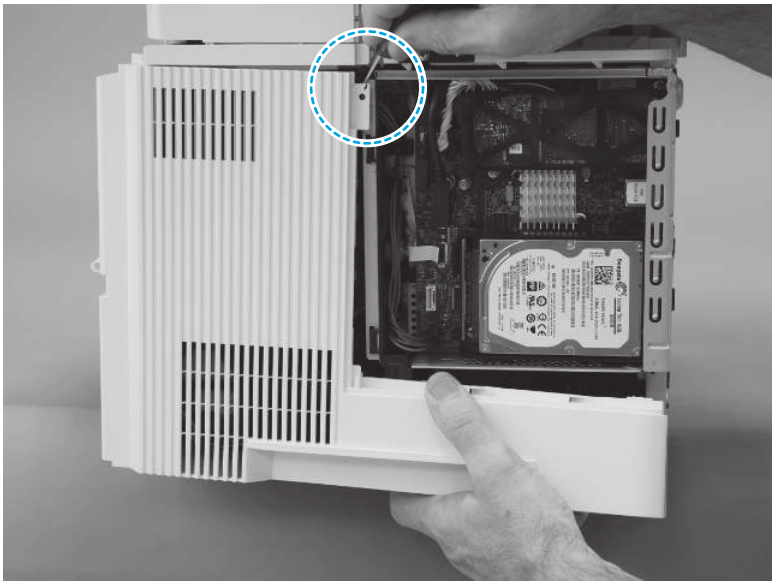


f. At the top rear edge of the cover, release one tab.

CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

TIP: Use a small flat-blade screw driver to easily release this tab.

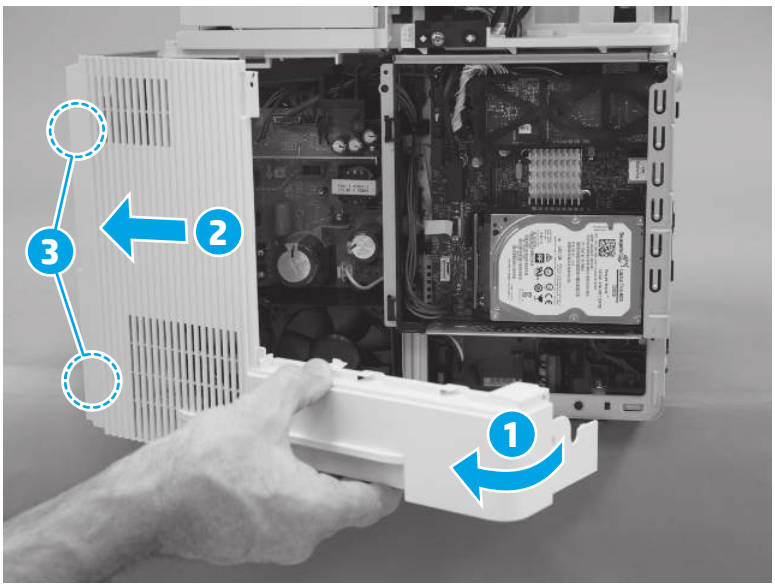
Figure 1-368 Release one tab



g. Rotate the rear of the cover away from the printer (callout 1), slide the cover toward the front of the printer (callout 2) to release two bosses (callout 3), and then remove the cover.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

Figure 1-369 Remove the cover



12. Remove the left cover.

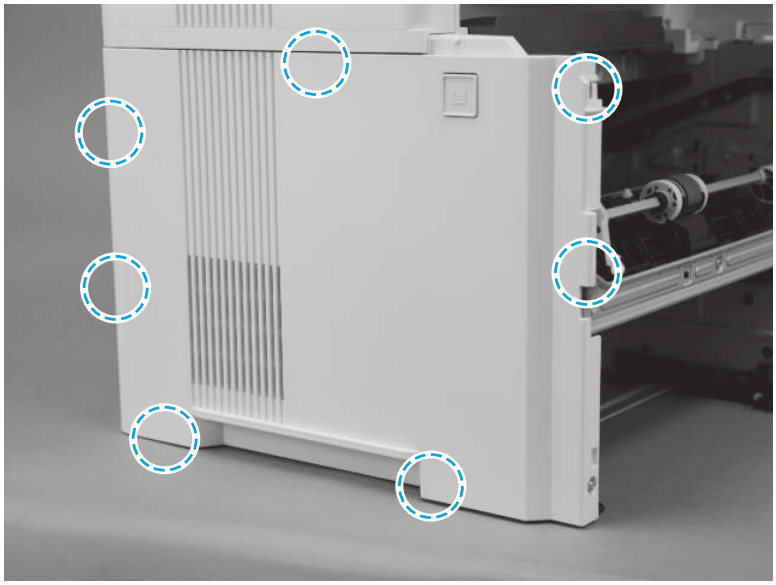
IMPORTANT: The black-plastic cassette front and rear guides (located inside the tray cavity) can be easily dislodged. Do not lose the guides when the cover is removed or installed.

NOTE: An MFP printer is shown in this section. However, the procedure is correct for all printer models.

a. Before proceeding, take note of the location of the tabs and bosses on the inside of the cover.

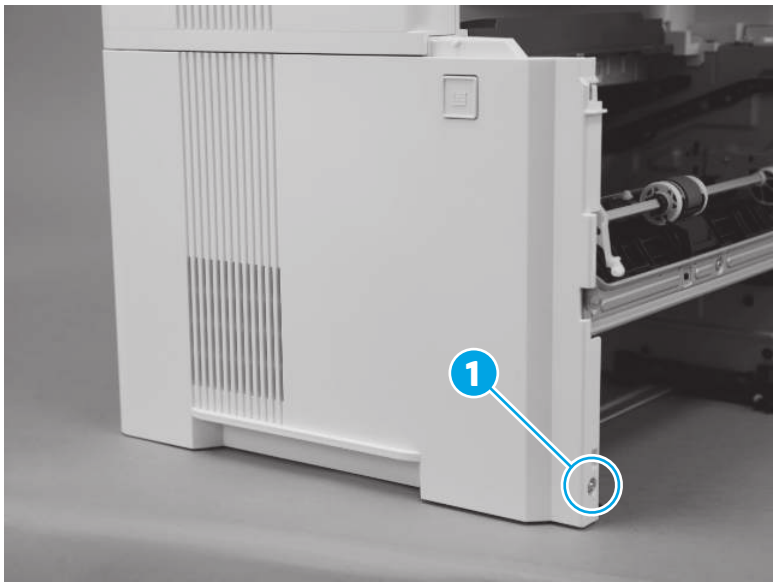
Reinstallation tip: When reinstalling the cover, take note of the location of the tabs and bosses on the inside of the cover.

Figure 1-370 Locate of the tabs and bosses



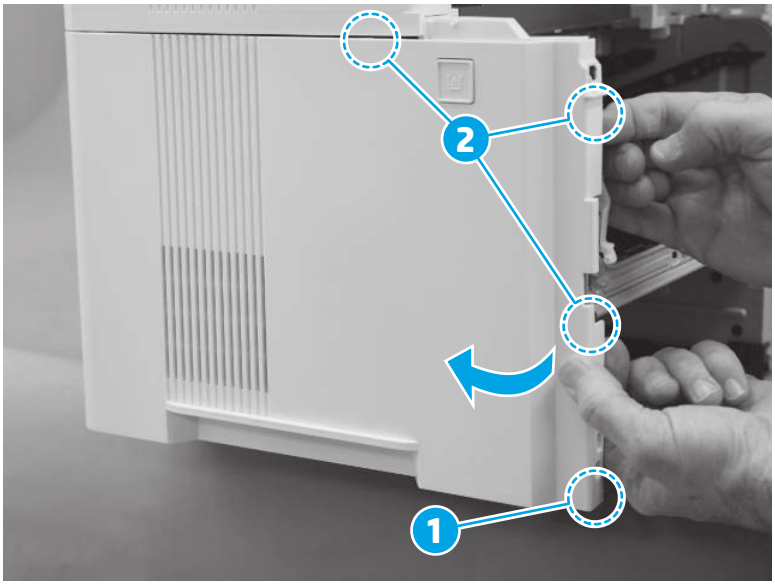
b. Remove one screw (callout 1).

Figure 1-371 Remove one screw



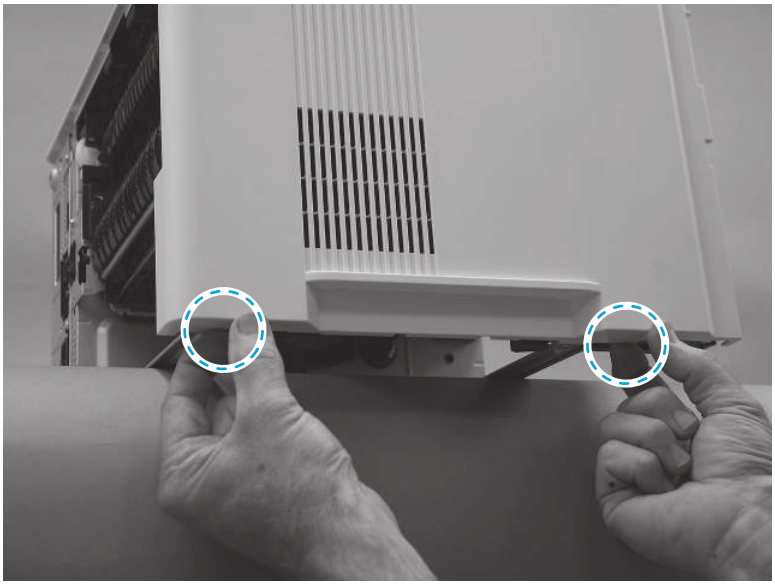
c. At the front of the printer, release one boss (callout 1), and then rotate the front edge of the cover away from the printer to release three tabs (callout 2).

Figure 1-372 Release one boss and three tabs



d. At the bottom edge of the cover, release two tabs.

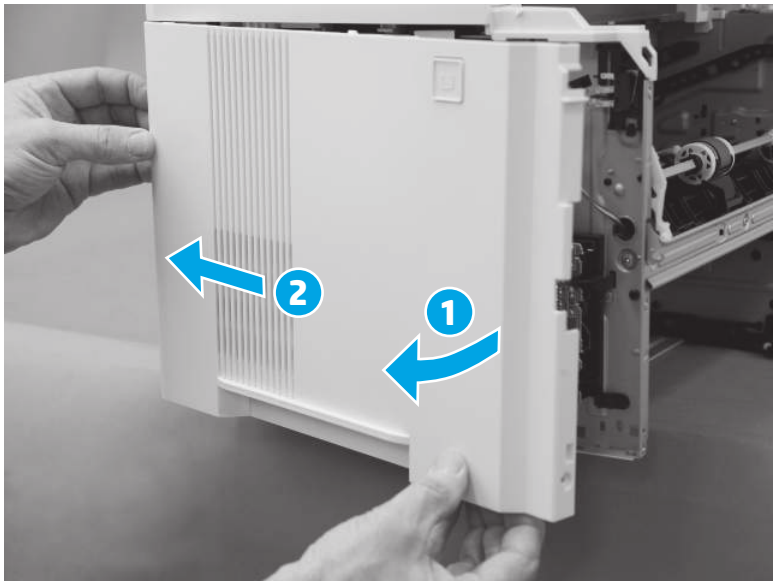
Figure 1-373 Release two tabs



e. Continue to rotate the front edge of the cover away from the printer (callout 1), and then slide the cover toward the rear of the printer (callout 2) to remove it.

NOTE: If the cover is difficult to rotate or slide as shown below, make sure that the bottom tabs (released in the previous step) are completely disengaged from the chassis.

Figure 1-374 Remove the cover



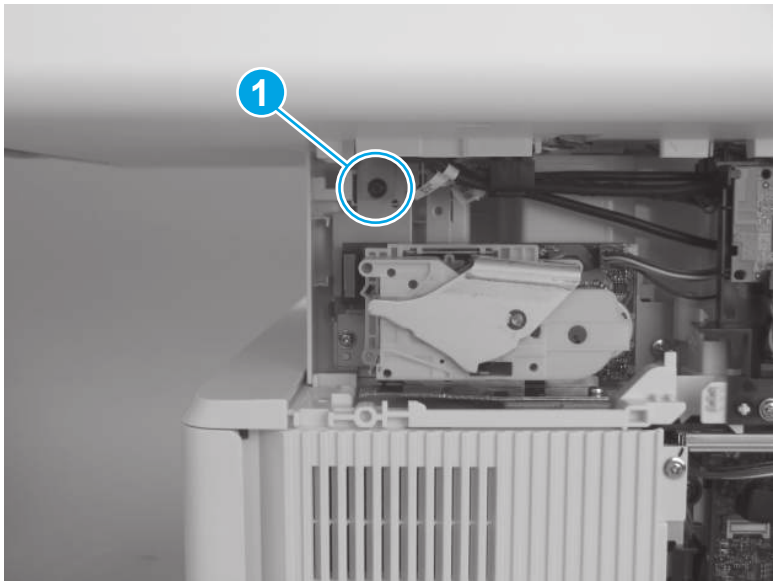
13. Remove the integrated-scanner assembly (ISA) (M527/E52545/M528/E52645).

NOTE: The ISA includes the document feeder, sub-scanner assembly (SSA), and the scanner control board (SCB).

a. Remove one screw (callout 1).

IMPORTANT: This screw fastens the ISA ground plate to the printer chassis. Do not lose this screw.

Figure 1-375 Remove one screw

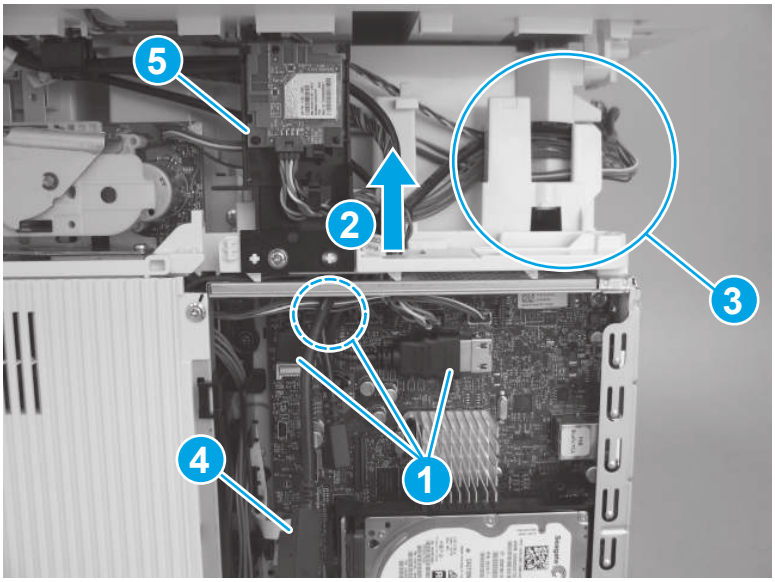


b. Disconnect three connectors (callout 1), pass the wire harnesses and cables through the opening in the cover (callout 2), and then release them from the retainers (callout 3).

NOTE: One cable (callout 4) does not need to pass through the opening in the cover.

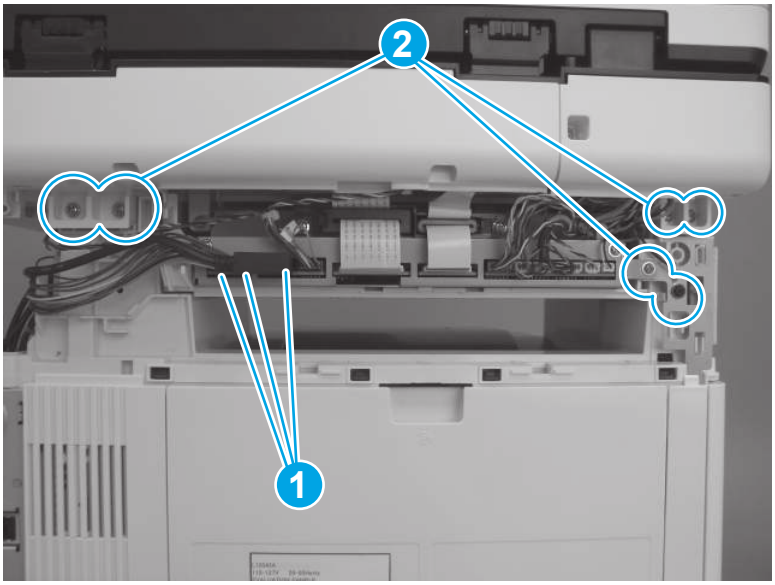
TIP: It might be easier if the WiFi PCA and holder (not all models; callout 5) is detached from the printer, and then moved out of the way.

Figure 1-376 Disconnect cables and connectors



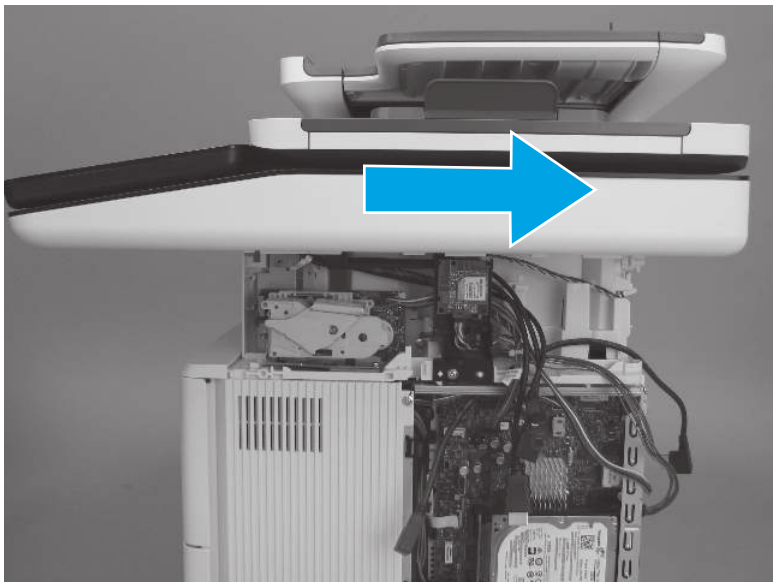
c. Disconnect three connectors (callout 1), and then remove six screws (callout 2).

Figure 1-377 Disconnect connectors and remove screws



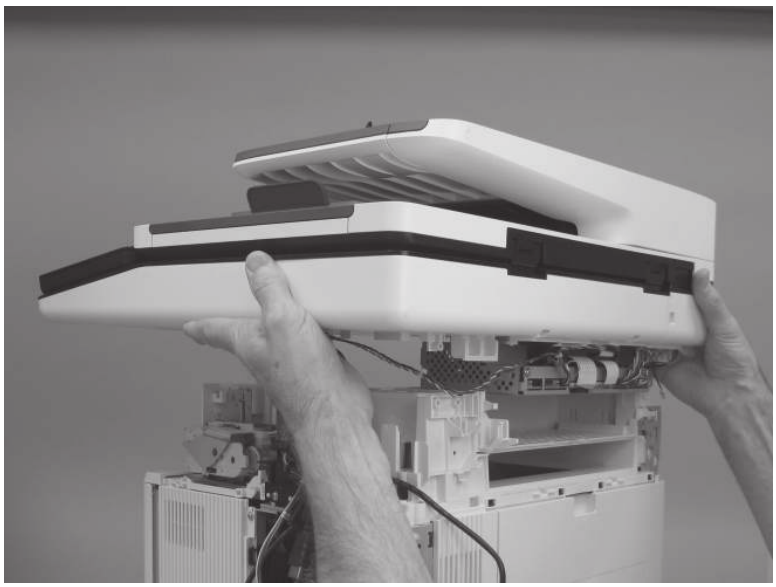
d. Slightly slide the ISA towards the back of the printer to release it.

Figure 1-378 Slide the ISA towards the back of the printer



e. Remove the ISA.

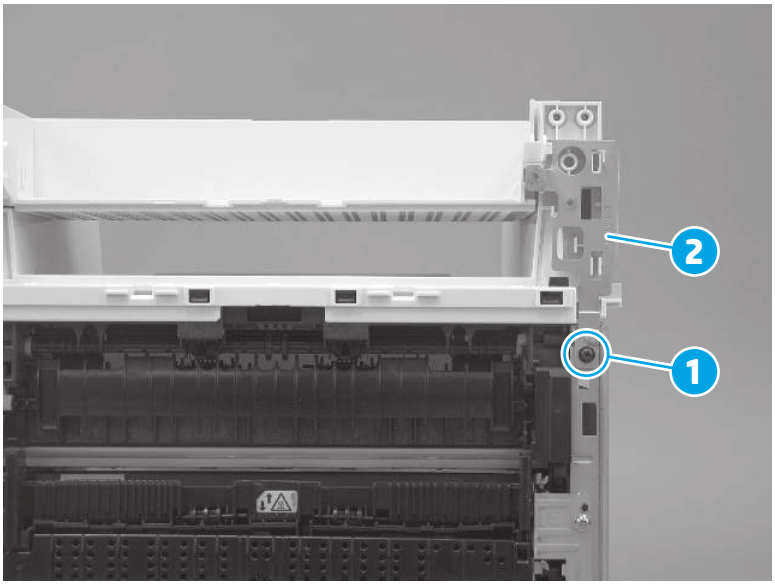
Figure 1-379 Remove the ISA



14. Remove the top cover (M527/E52545/M528/E52645).

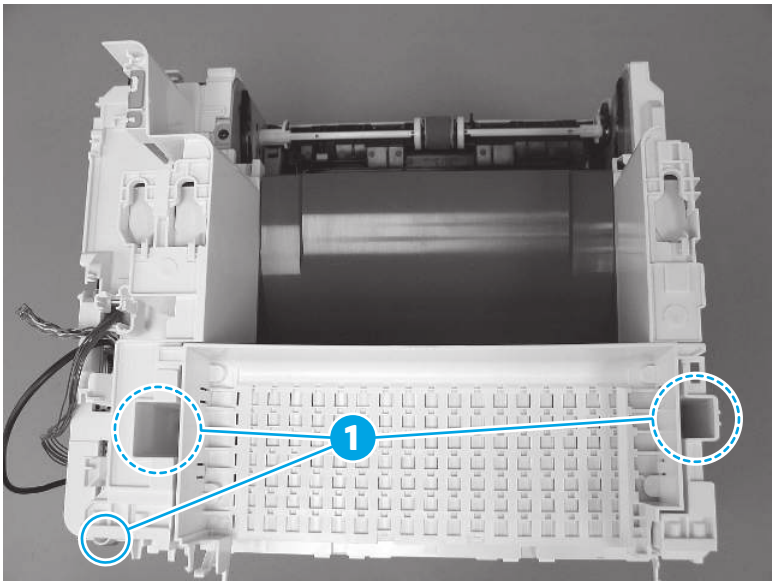
a. At the front right of the printer, remove one screw (callout 1), and then remove the sheet-metal plate (callout 2).

Figure 1-380 Remove one screw and the plate



b. At the top rear of the printer, remove three screws (callout 1).

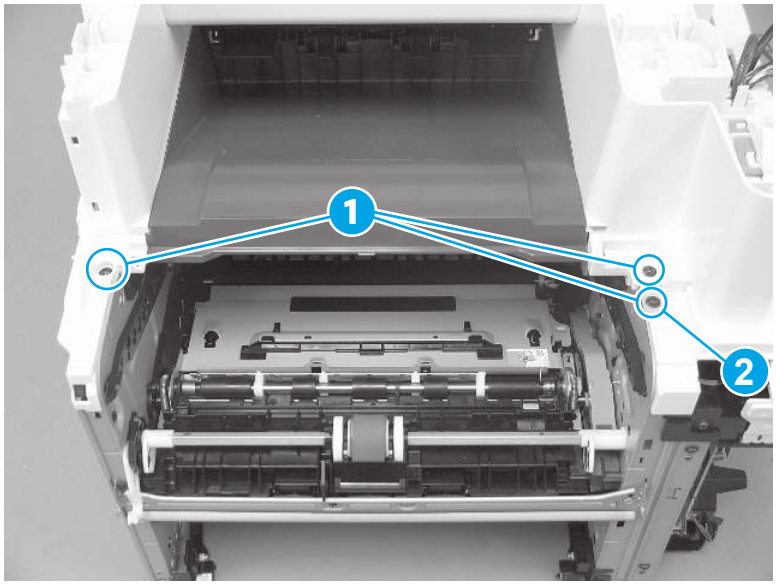
Figure 1-381 Remove three screws



c. At the top front of the printer, remove three screws (callout 1).

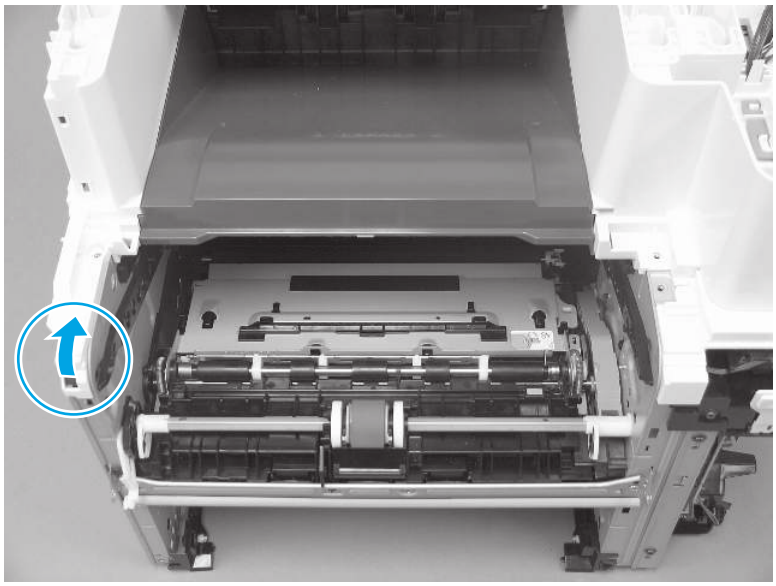
NOTE: The screw (callout 2) on the lower-right portion of the cover is a different color than the other two screws, and is surrounded by sheet-metal. It might appear that this screw does not need to be removed. Remove this screw.

Figure 1-382 Remove three screws



d. At the front left of the printer, release one boss.

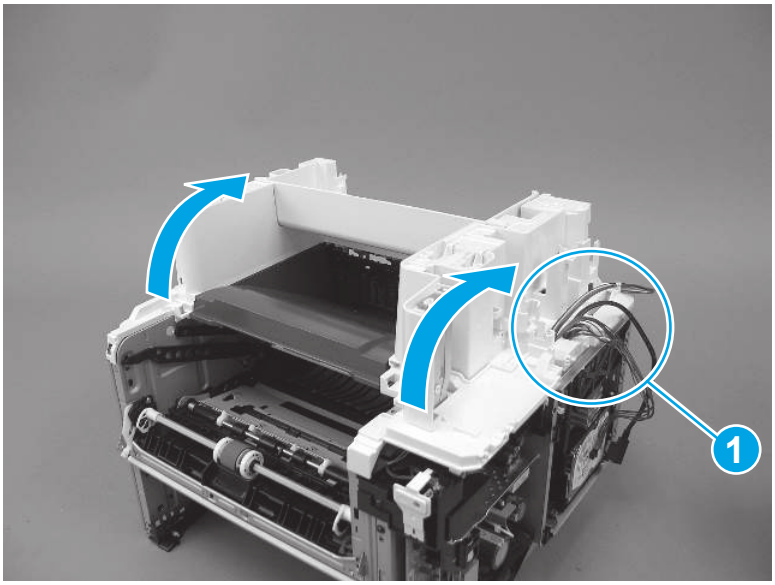
Figure 1-383 Release one boss



e. Rotate the front of the cover up and away from the printer.

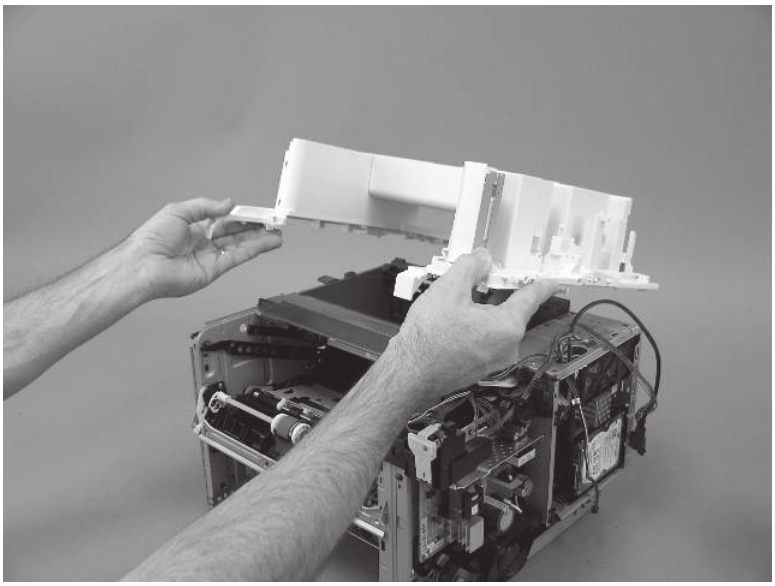
⚠ CAUTION: As the cover is rotated up, carefully pass the cables and wire harnesses the hole in the cover (callout 1).

Figure 1-384 Rotate the front of the cover up



f. Remove the cover.

Figure 1-385 Remove the cover

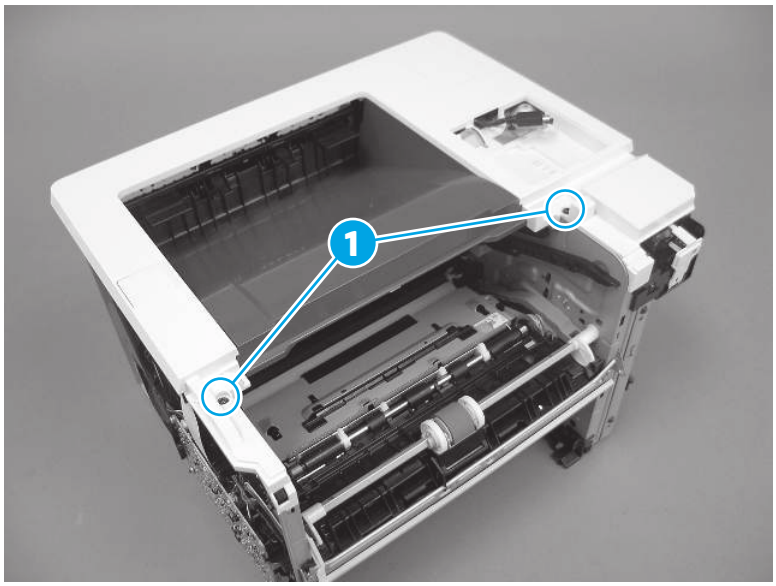


15. Remove the top cover (M501/M506/E50045/M507/E50145).

    The M506x/E50045x is shown in this procedure. However, the steps are correct for all M506/E50045/M507/E50145 models and the M501 printer.

a. Remove two screws (callout 1).

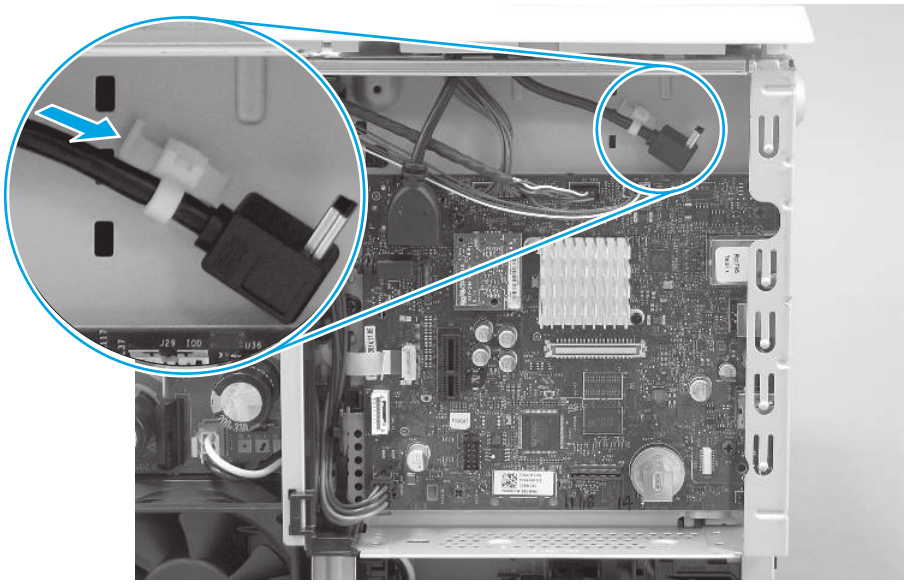
Figure 1-386 Remove two screws



b. **M506/E50045/ only**: Release one cable retainer from the chassis.

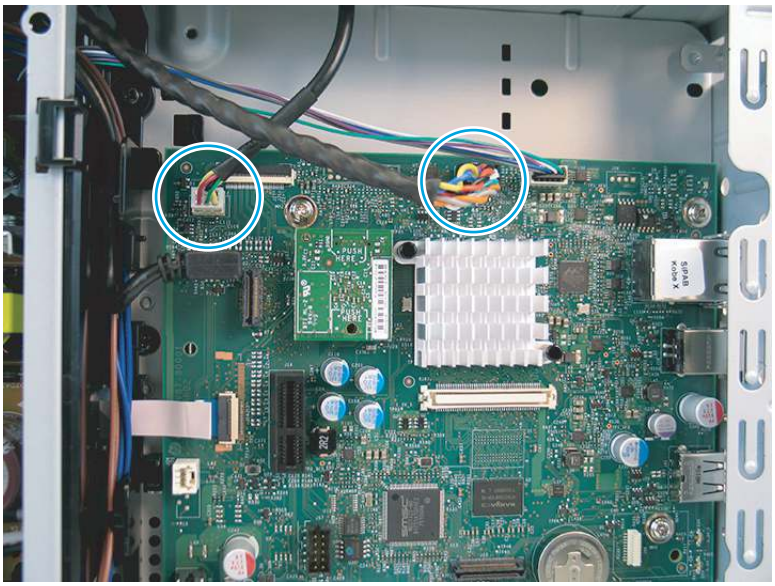
TIP: Depress the tab on the retainer to release it.

Figure 1-387 Release one cable retainer



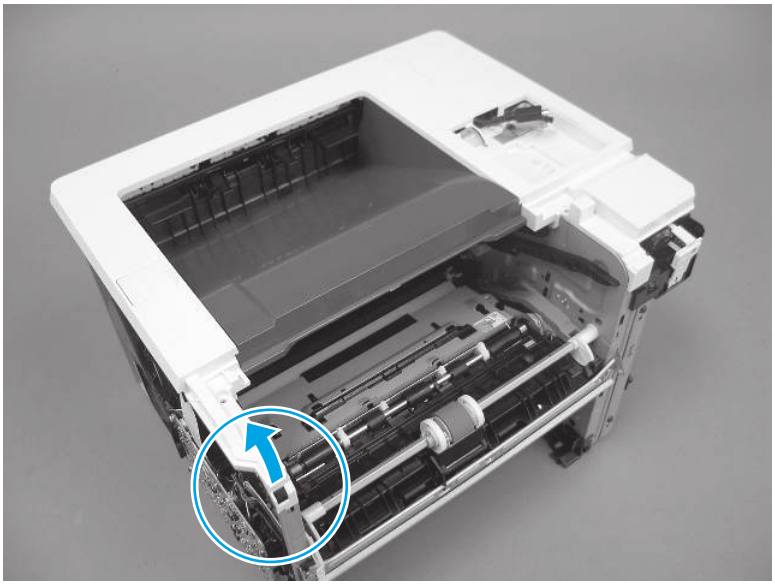
c. **M507/E50145 only**: Disconnect two connectors.

Figure 1-388 Disconnect two connectors



d. Release one boss.

Figure 1-389 Release one boss

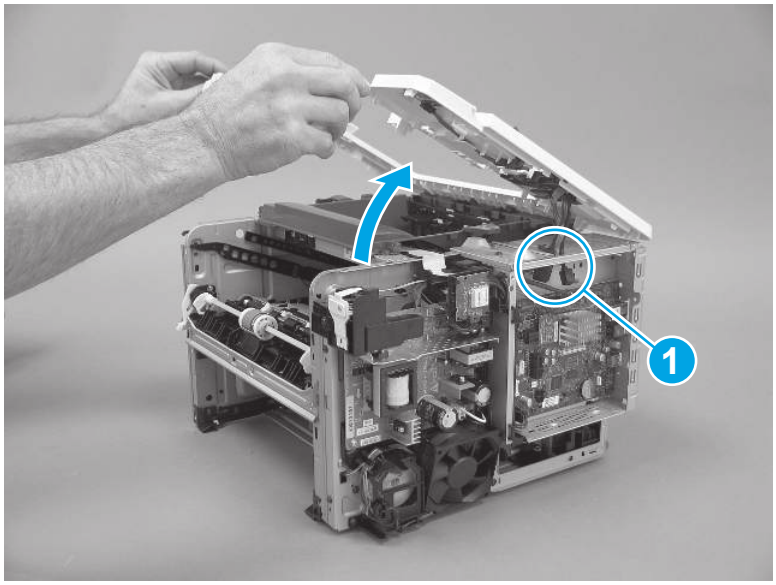


e. **M506/E50045/ only**: Rotate the front of the cover up and away from the printer, and then remove the cover.

⚠ CAUTION: **M506x/E50045x only**: As the cover is rotated up, carefully pass the cables the hole in the chassis (callout 1).

NOTE: **LCD control panel models only**: Disconnect the control panel before removing the cover.

Figure 1-390 Remove the cover (M506/E50045)



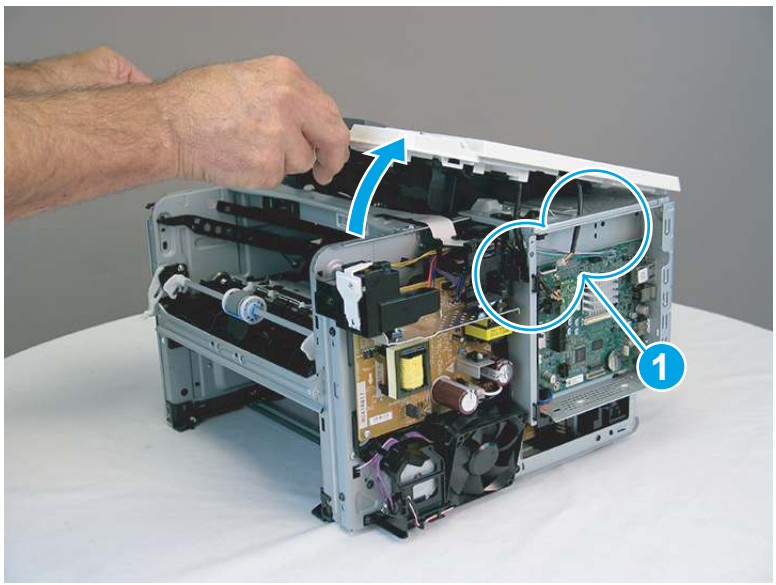
f. M507/E50145only: Rotate the front of the cover up and away from the printer, and then remove the cover.

CAUTION: M507x/E50145x only: As the cover is rotated up, carefully pass the cables the hole in the chassis (callout 1).

IMPORTANT: If the top cover is being replaced, make sure to transfer the WiFi PCA from the discarded cover to the replacement cover.

NOTE: LCD control panel models only: Disconnect the control panel before removing the cover.

Figure 1-391 Remove the cover (M507/E50145)

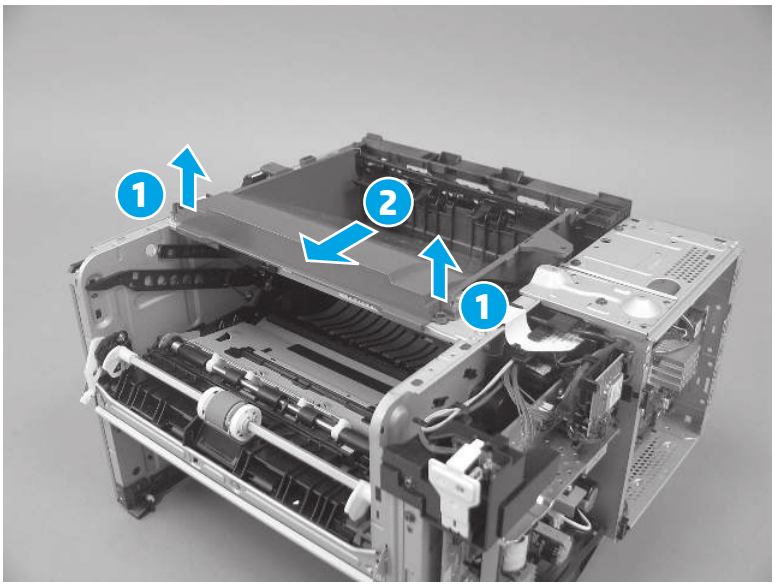


16. Remove the paper delivery tray (output bin).

NOTE: A SFP printer is shown in this section. However, the procedure is correct for all printer models.

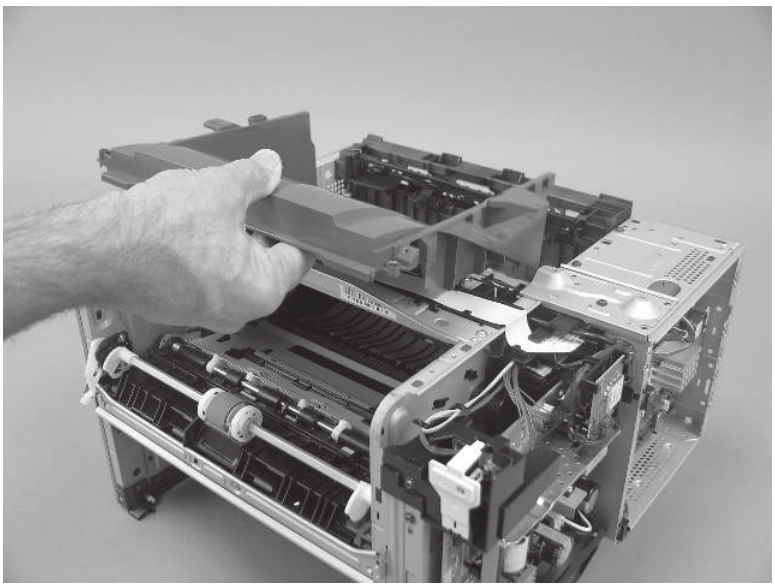
a. Release two tabs (callout 1), and then slide the cover toward the front of the printer (callout 2).

Figure 1-392 Release two tabs



b. Remove the bin.

Figure 1-393 Remove he bin



17. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Removal and replacement: Sub-scanner assembly (SSA) (MFP)

Learn how to remove and replace the sub-scanner assembly (SSA).

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the sub-scanner assembly (SSA).

Mean time to repair: 8 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

WARNING! To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-26 Part information

Part number	Part description
F2A76-67909	Image scanner kit (M527/E52545/M528/E52645) with instruction guide (includes white backing kit)

Required tools

- Small flat-blade screwdriver
- #2 Phillips screwdriver with a magnetic tip and a 152 mm (6 in) shaft length

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

Print a configuration page, and then make a copy using the flatbed glass to make sure that it is properly functioning.

Print a configuration page, and then make a copy using the document feeder to make sure that it is properly functioning.

1. Remove the white backing (M527/E52545/M528/E52645).

   a. Open the document feeder.

   Figure 1-394 Open the document feeder

   b. Remove the white backing and retention clips (attached to the document feeder behind the white backing).

   TIP: Use the edge of a coin to loosen the clips.

Figure 1-395 Remove the white backing

2. Remove the control panel.

   a. Open the document feeder.

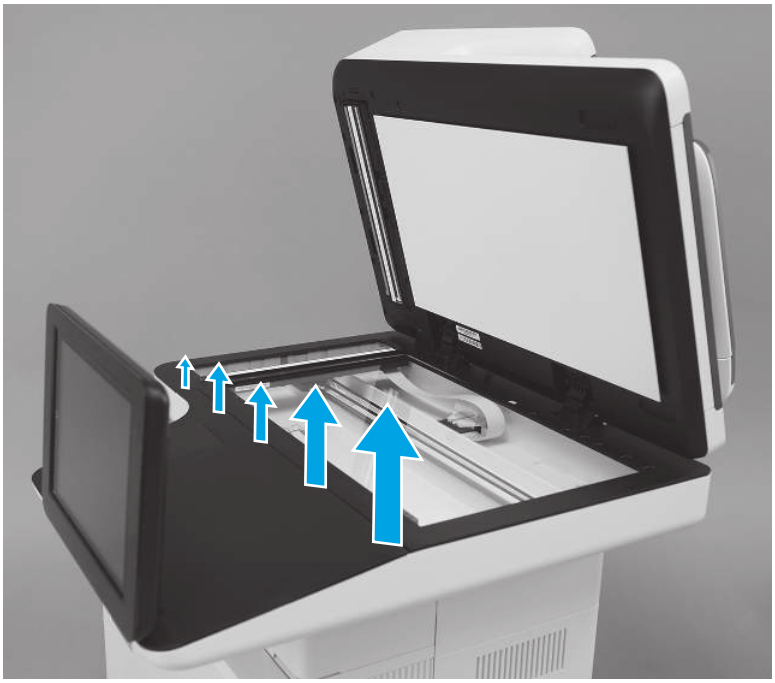
   NOTE: If the control panel is not fully tilted forward, tilt it forward now until it stops.

Figure 1-396 Open the document feeder

   b. Beginning at the right side of the control-panel cover, carefully release five tabs along the top edge of the cover.

   NOTE: The thin black-plastic cover will separate from the white-plastic control-panel base.

Figure 1-397 Release five tabs

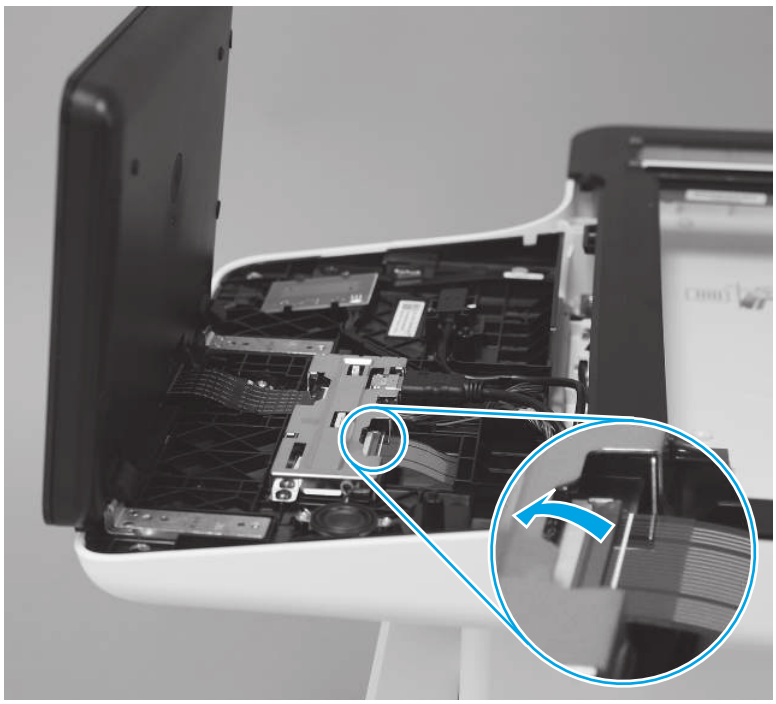


c. Continue to rotate the top edge of the cover away from the printer, and then remove the cover.

Figure 1-398 Remove the cover

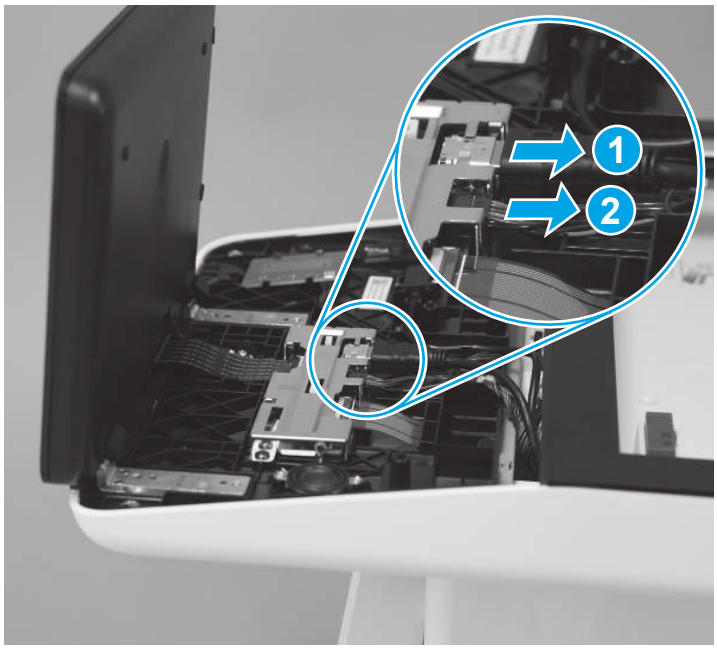
d. **M527/E52545/M528c/z, and E52645c/z only**: Open the connector latch to release the keyboard flat cable.

Figure 1-399 Disconnect the FFC (M527/E52545/M528c/z, and E52645c/z)



e. Disconnect one HDMI cable (callout 1) and one connector (callout 2).

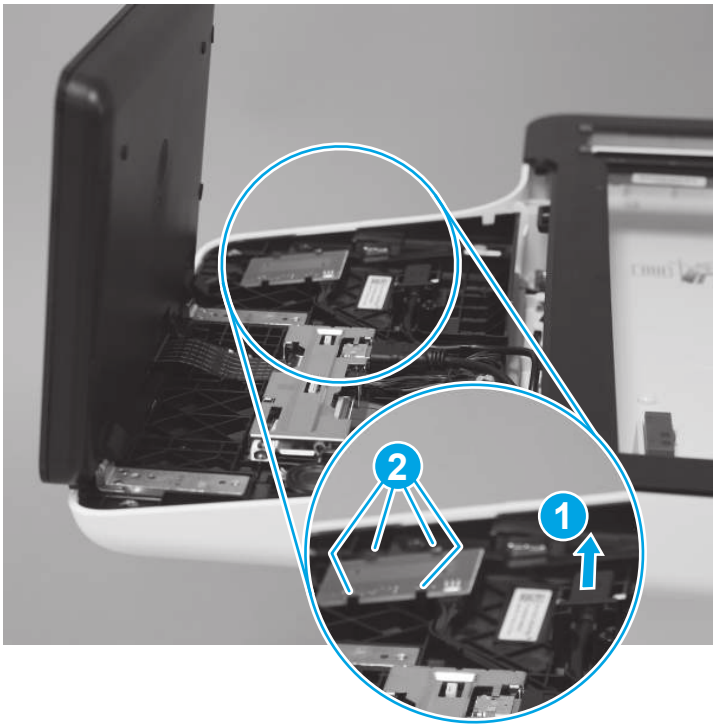
Figure 1-400 Disconnect connectors



f. Remove the USB cable (callout 1) from the holder.

NOTE: **M527z/E52545z only**: Release four tabs (callout 2), and then remove the near-field communication (NFC) printed circuit board.

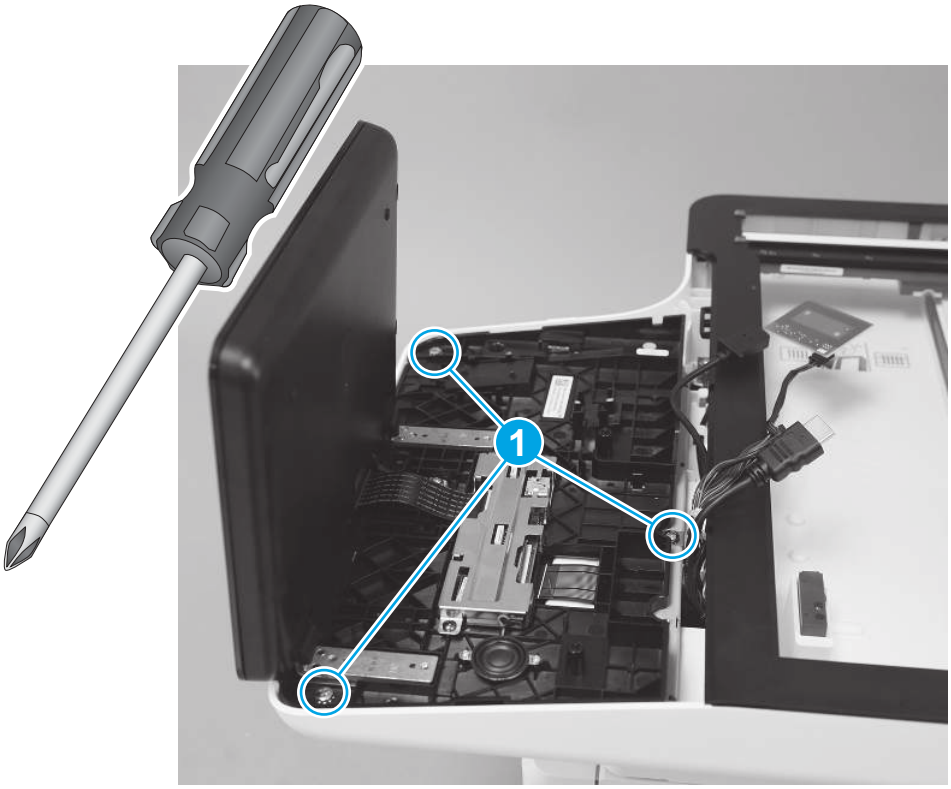
Figure 1-401 Remove USB cable and NFC PCA



g. Remove three screws (callout 1).

TIP: The screwdriver (supplied with the kit) has a reversible shaft. Simply pull the shaft out of the handle, and then reinstall it with the desired end facing out.

Figure 1-402 Remove three screws



h. Lift the front of the control panel off of the printer (callout 1), and then slide it toward the front of the printer (callout 2) to remove it.

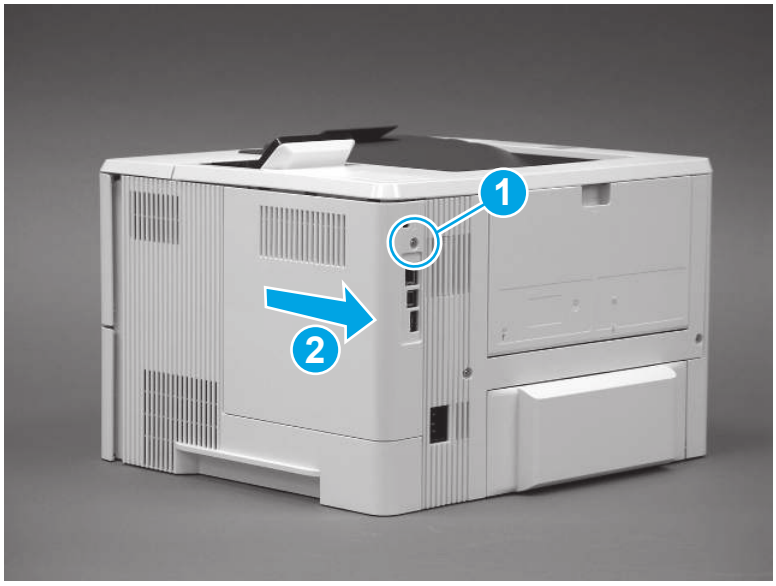
Figure 1-403 Remove the control panel

3. Remove the formatter cover.

▲ Do one of the following:

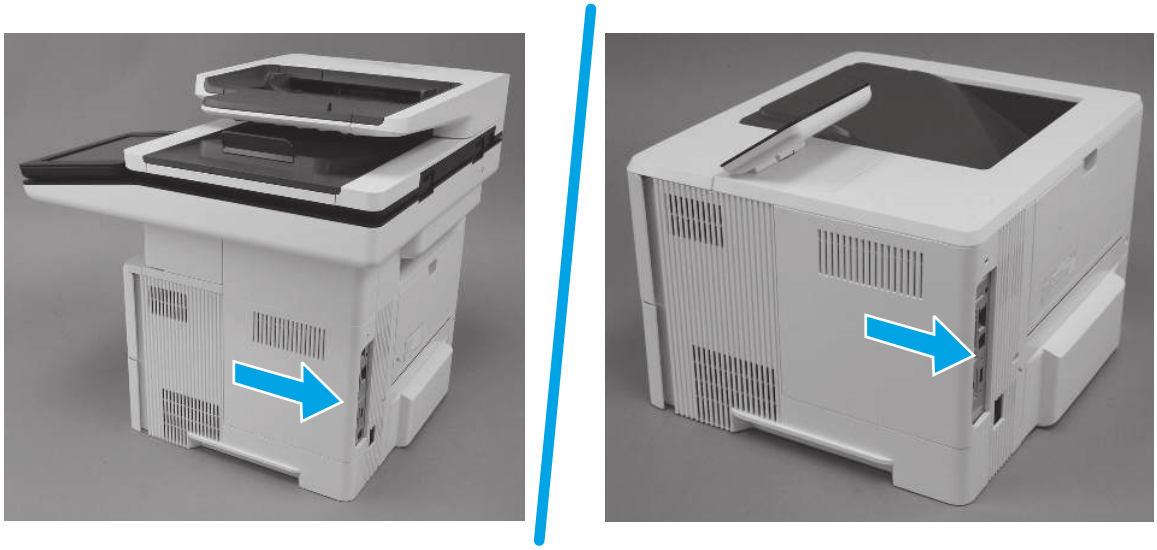
- **M501**: Remove one screw (callout 1), and then slide the cover toward the rear of the printer to remove it (callout 2).

  Figure 1-404 Remove the formatter cover (M501)

- **M506/E50045/M507/E50145/M527/E52545/M528/E52645**: Slide the cover toward the rear of the printer to remove it.

  Figure 1-405 Remove the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)

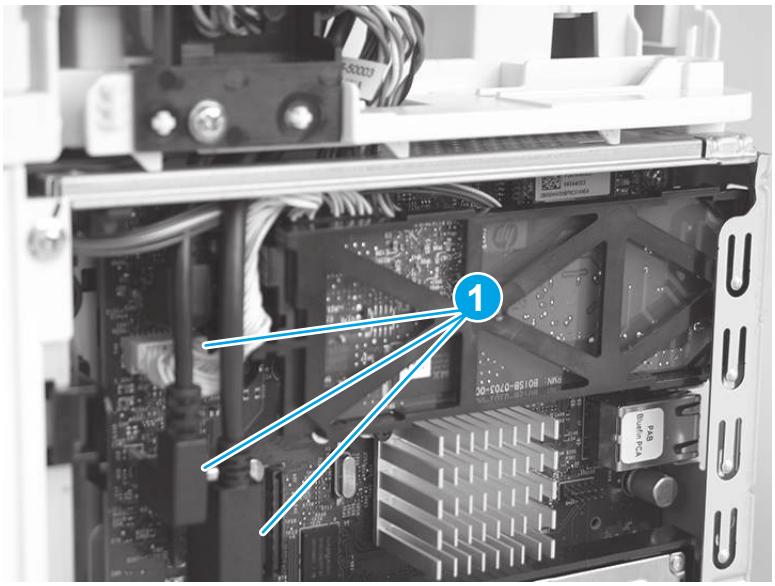
  

4. Remove the fax PCA (M527/E52545/M528/E52645 fax models).

⚠ **CAUTION:** ESD-sensitive part.

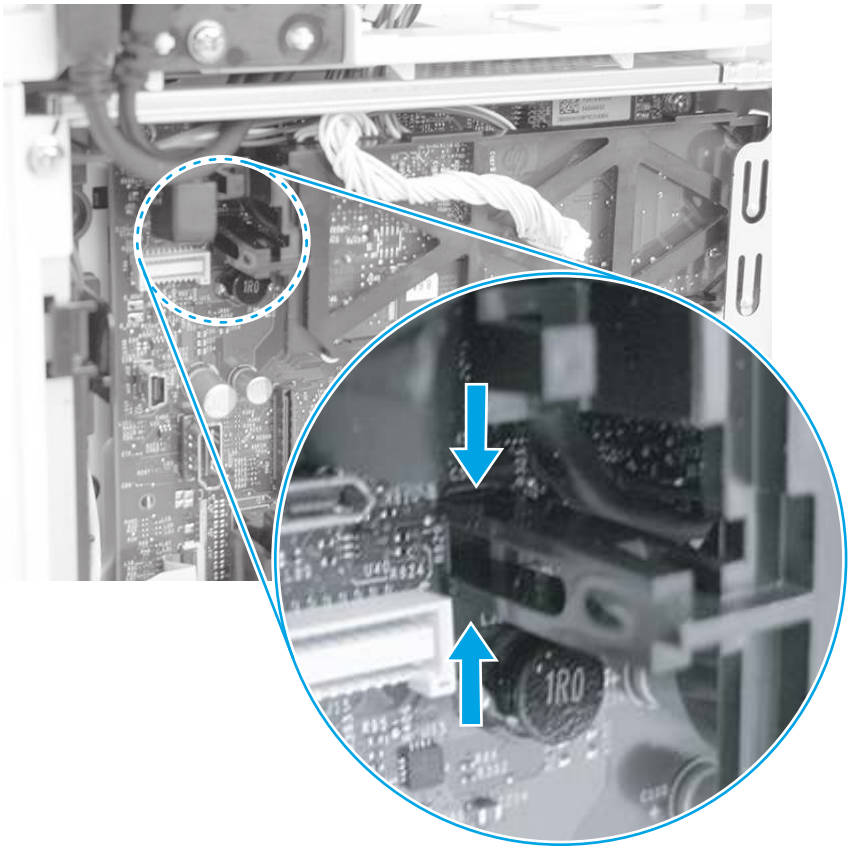
a. Disconnect three connectors (callout 1).

Figure 1-406 Disconnect three connectors



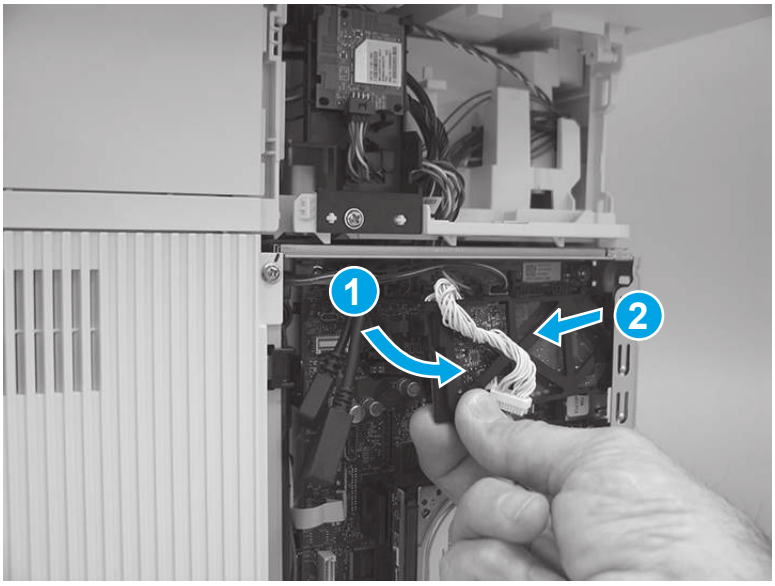
b. Pinch the retainer to release it.

Figure 1-407 Release the fax PCA



c. Rotate the connector end of the fax PCA out and away from the formatter (callout 1), and then slide it as shown (callout 2) to remove it.

Figure 1-408 Remove the fax PCA

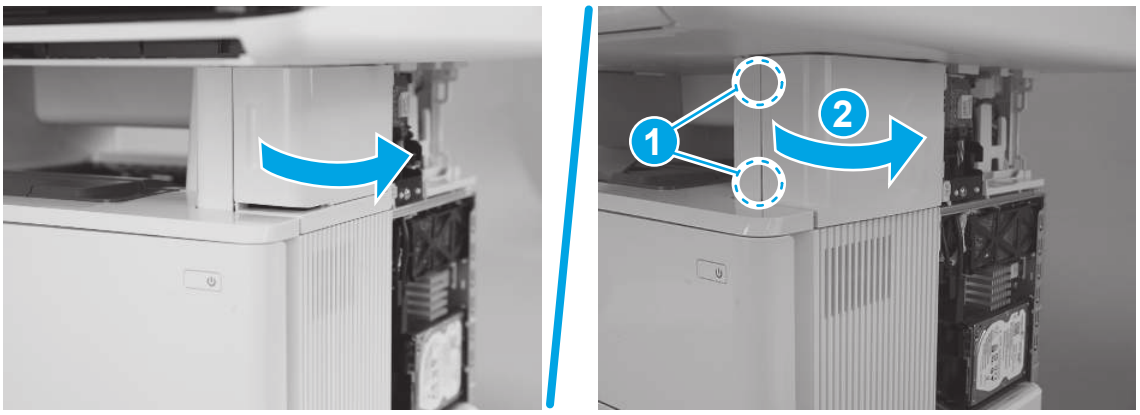


5. Remove the stapler door or stapler blank cover (M527/E52545/M528/E52645).

a. Do one of the following:

- **Stapler models**: Open the stapler door.
- **Non-stapler models**: Use a small flat-blade screw driver to release two tabs (callout 1), and then rotate the cover away from the printer (callout 2).

Figure 1-409 Open the door or release the cover



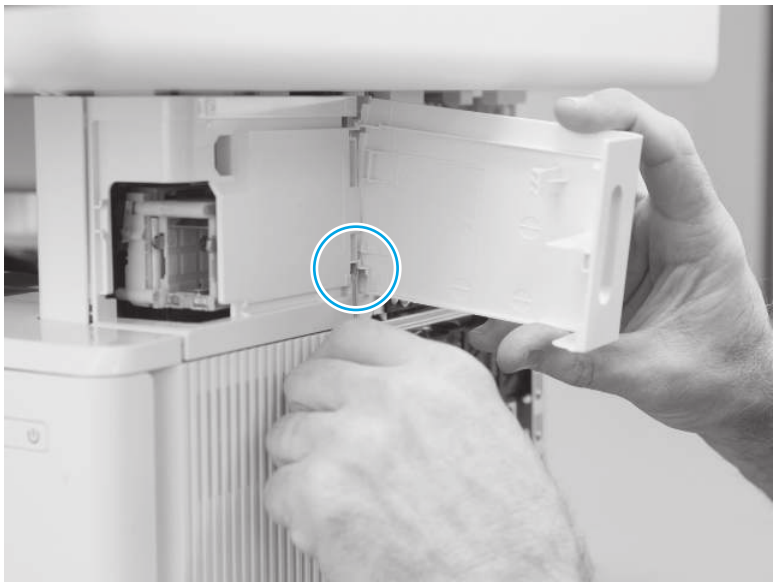
b. Do one of the following:

- **Stapler models**: Use a small flat-blade screwdriver to release the upper hinge.
- **Non-stapler models**: Slide the cover toward the front of the printer to remove it.

Figure 1-410 Release the upper hinge or remove the cover

c. **Stapler models**: Use a small flat-blade screwdriver to release the lower hinge.

Figure 1-411 Release the lower hinge



d. **Stapler models**: Remove the door.

Figure 1-412 Remove the door

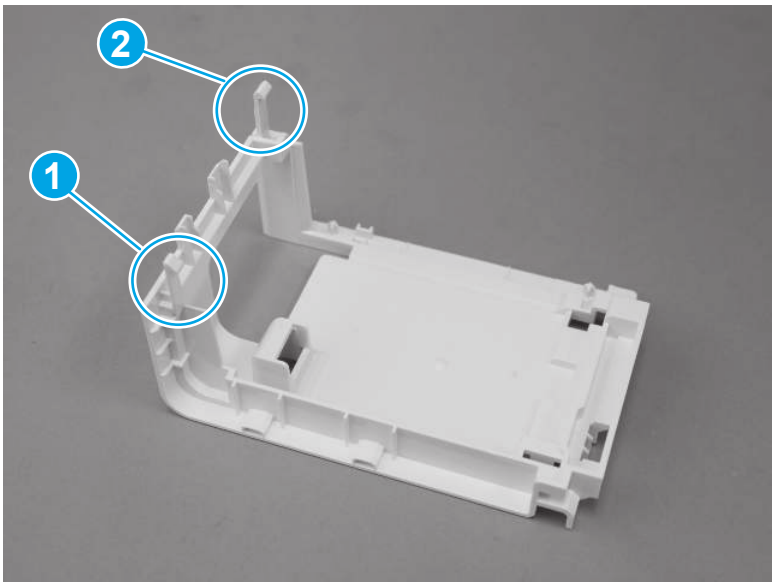
6. Remove the stapler stationary (inner) cover (M527/E52545/M528/E52645).

NOTE: Stapler models only.

a. Before proceeding, take note of the locations of the upper tab (callout 1) and the lower tab (callout 2) on the stapler stationary (inner) cover.

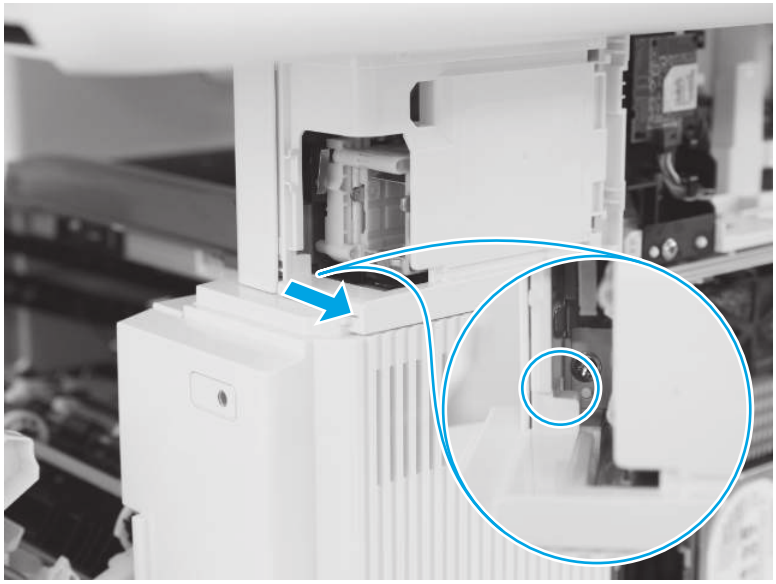
Reinstallation tip: When reinstalling the cover, take note of the location of the tabs.

Figure 1-413 Locate the tabs



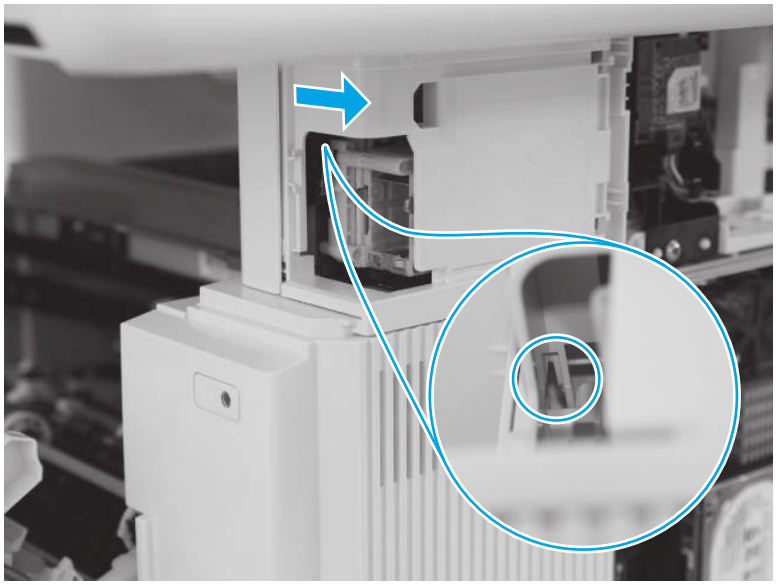
b. Use a long-shaft small flat-blade screwdriver to release the lower tab.

Figure 1-414 Release one tab



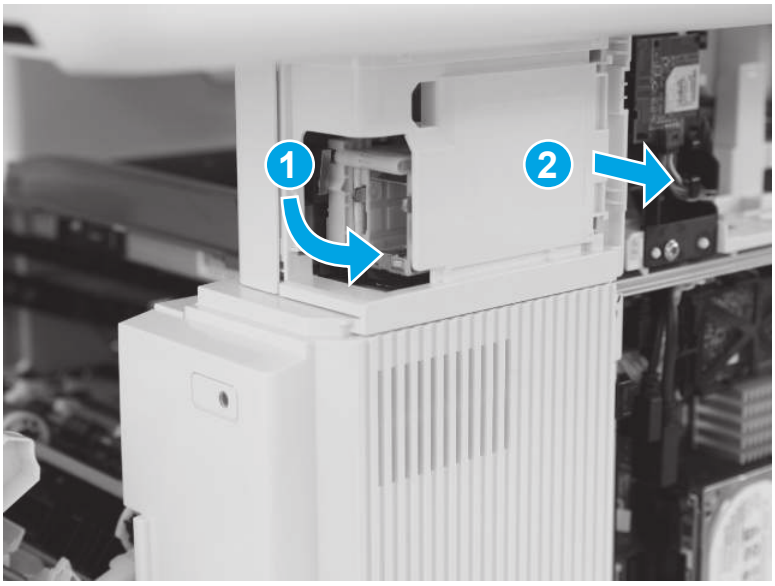
c. Use a long-shaft small flat-blade screwdriver to release the upper tab.

Figure 1-415 Release one tab



d. With the tabs disengaged the front of the cover is released. Rotate the front of the cover away from the printer (callout 1) to release the rear of the cover (callout 2), and then remove it.

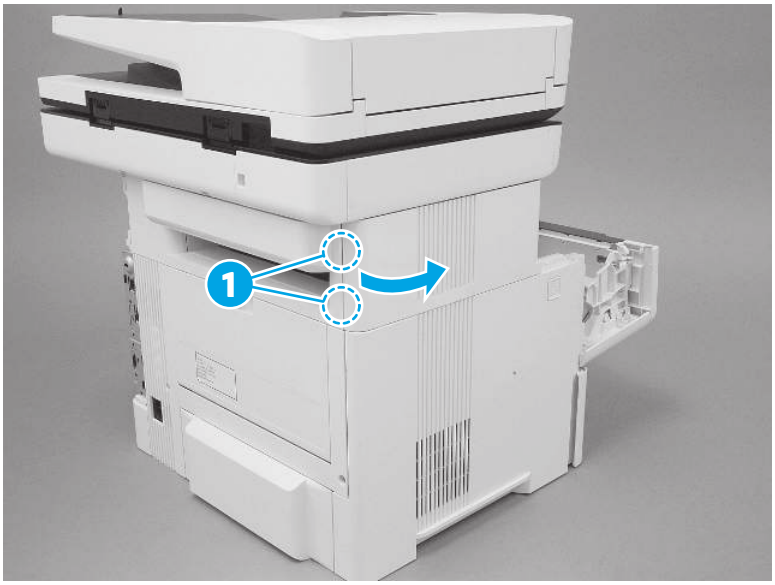
Figure 1-416 Remove the cover



7. Remove the top-left cover (M527/E52545M528/E52645).

a. Open the toner-cartridge door, release two tabs (callout 1), and then rotate the rear edge of the cover away from the printer.

Figure 1-417 Release two tabs



b. Continue to rotate the cover away from the printer to release two more tabs at the middle of the cover.

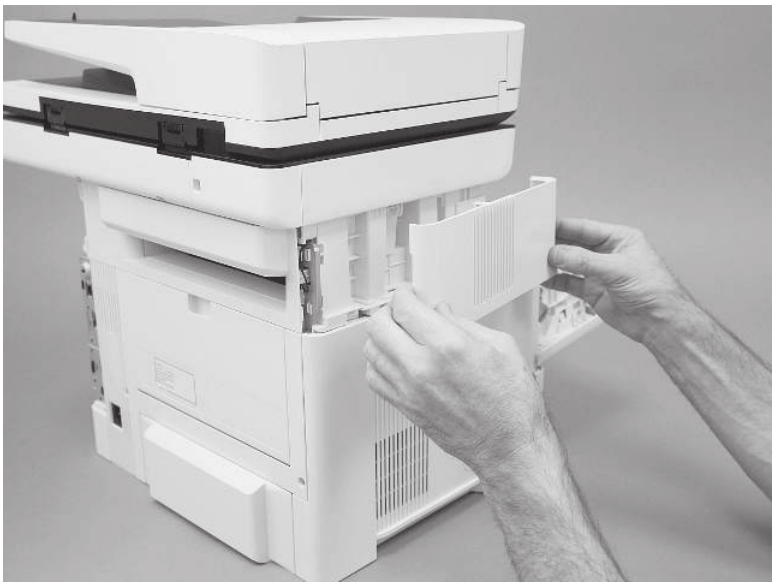
Figure 1-418 Release two tabs

c. Slide the cover toward the rear of the printer to release two bosses at the front of the cover.

Figure 1-419 Slide the cover

d. Remove the cover.

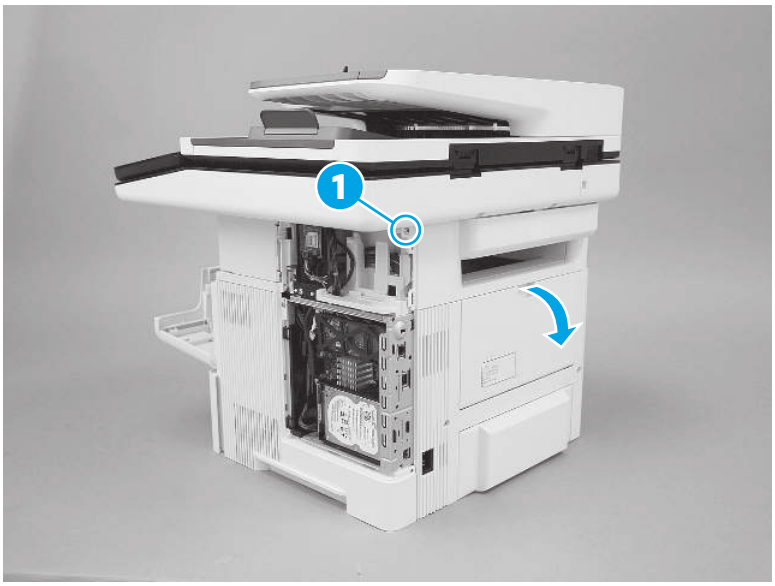
Figure 1-420 Remove the cover



8. Remove the top-rear cover (M527/E52545/M528/E52645).

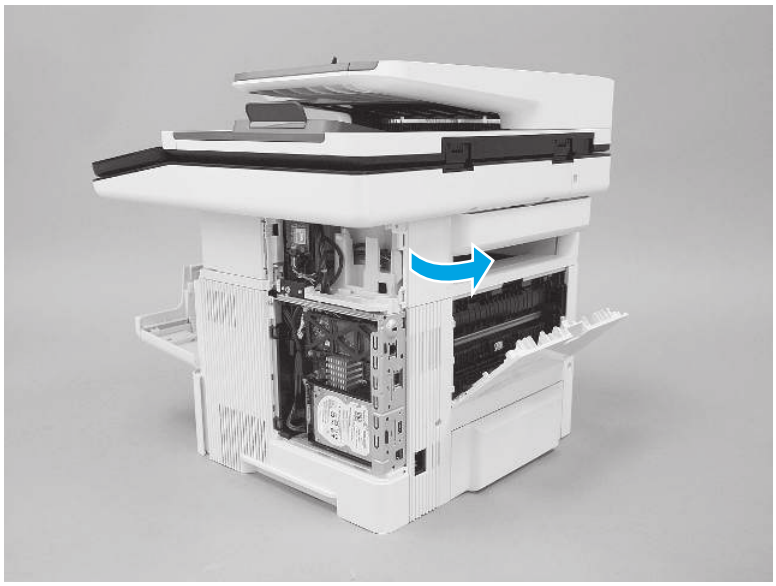
a. Remove one screw (callout 1), and then open the rear door.

Figure 1-421 Remove one screw



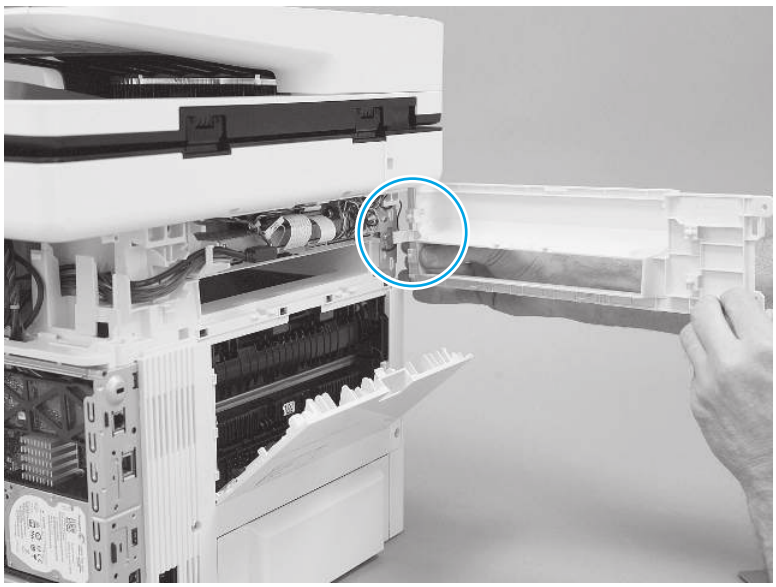
b. Rotate the exposed edge of the cover away from the printer (as shown).

Figure 1-422 Rotate the cover



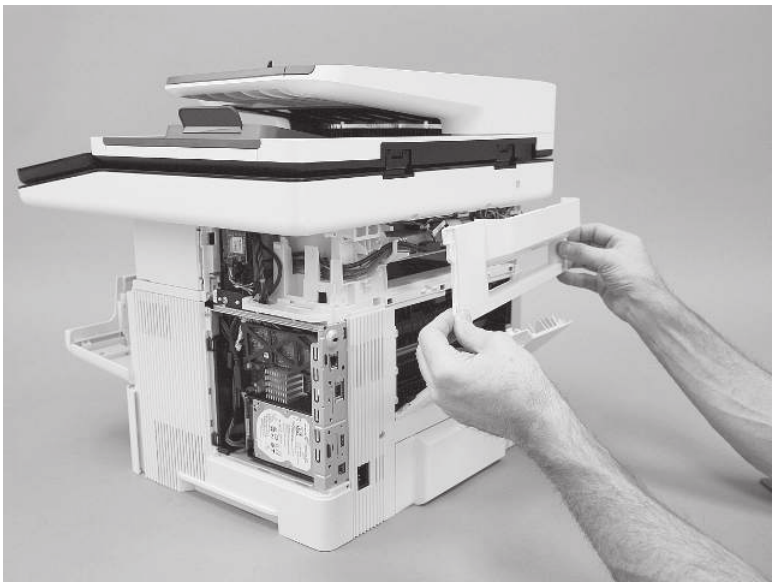
c. Continue to rotate the cover away from the printer to release one boss.

Figure 1-423 Release one boss



d. Remove the cover.

Figure 1-424 Remove the cover

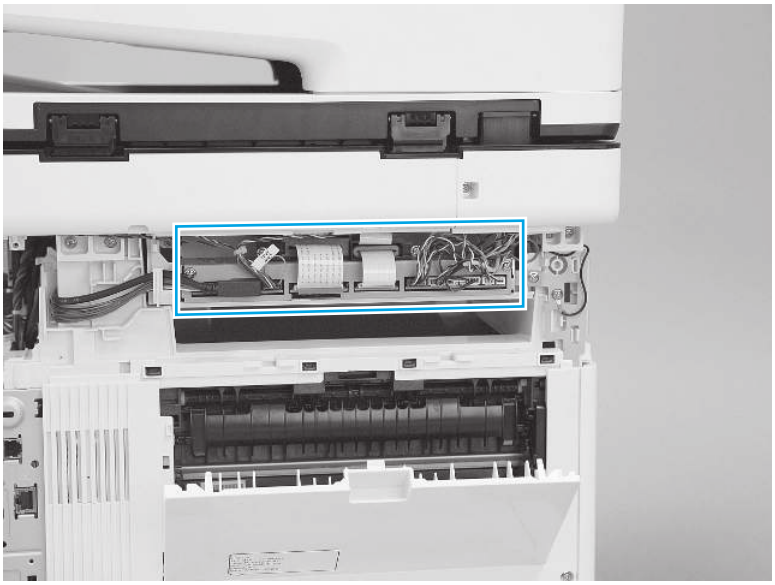


9. Remove the scanner control board (SCB).

a. Disconnect all of the connectors from the SCB.

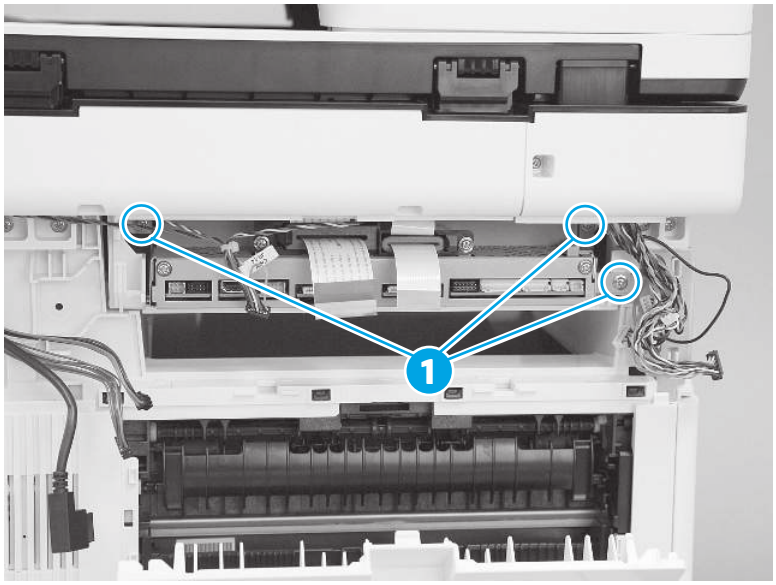
Reinstallation tip: There are eight wire-harness connectors, two flat-flexible cables (FFCs), and one high definition multimedia interface (HDMI) cable connector.

Figure 1-425 Disconnect all of the connectors



b. Remove three screws (callout 1).

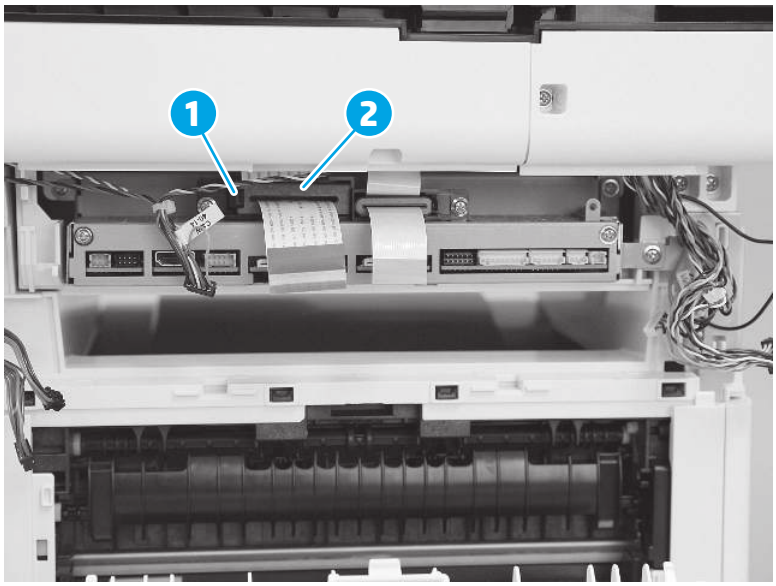
Figure 1-426 Remove three screws



c. Release one tab (callout 1), and then remove one ferrite from the holder (callout 2).

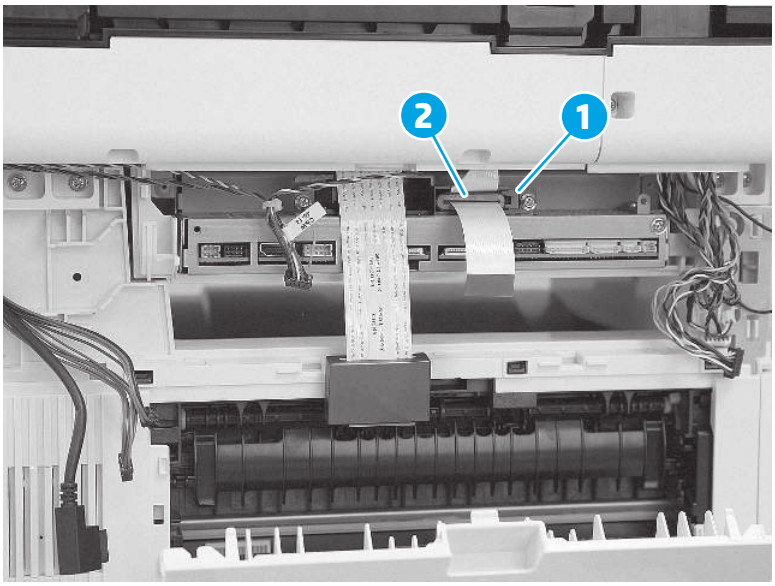
NOTE: The ferrite does not need to be removed from the FFC. Simply let it slide down the FFC until it stops, and then let it hang out of the way.

Figure 1-427 Remove one ferrite



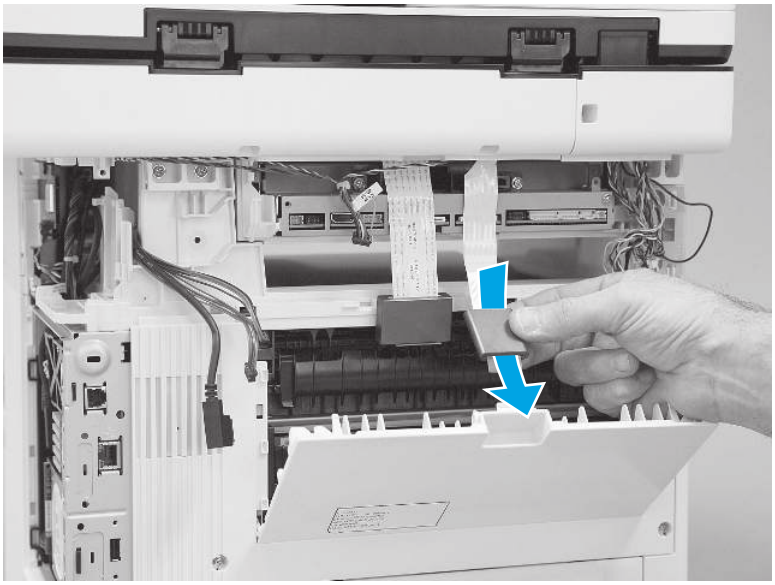
d. Release one tab (callout 1), and then remove one ferrite from the holder (callout 2).

Figure 1-428 Remove one ferrite



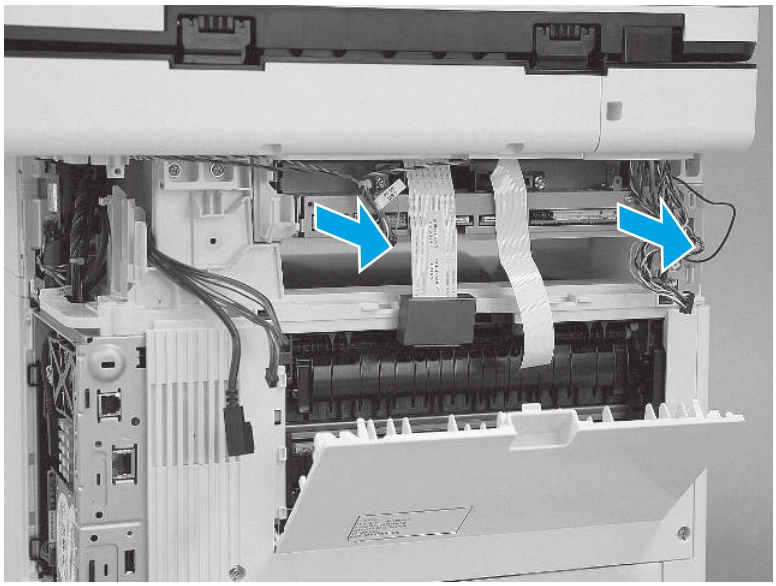
e. Slide the ferrite down the FFC to remove it.

Figure 1-429 Remove the ferrite from the FFC



f. Slide the SCB straight out of the printer.

Figure 1-430 Slide the SCB out

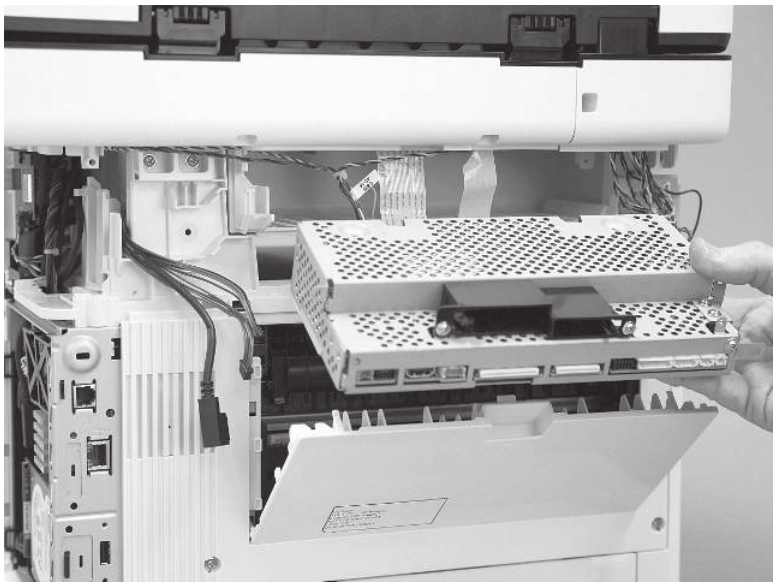


g. Remove the SCB.

Reinstallation tip: For a replacement SCB, do the following

1. Remove two screws, and then remove the SCB cage top cover.
2. Install the top cover on the replacement SCB.

Figure 1-431 Remove the SCB

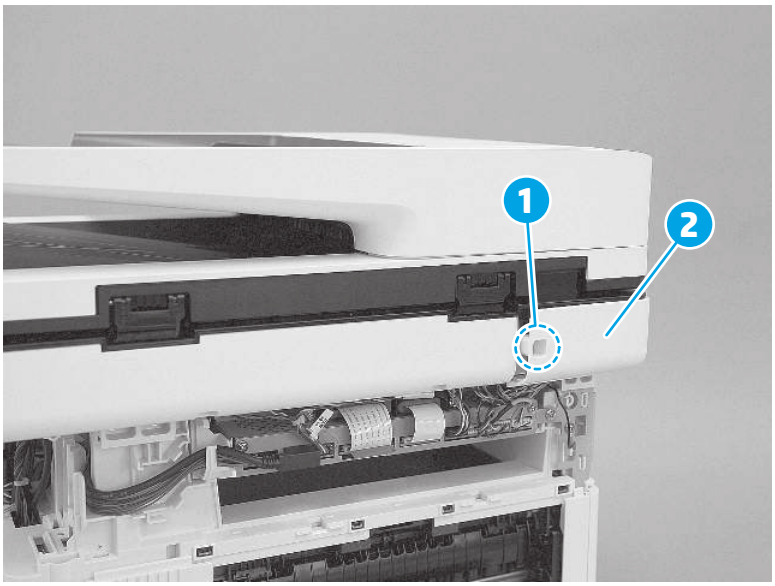


10. Remove the sub-scanner assembly (SSA) (M527/E52545/M528/E52645).

NOTE: The SCB is shown installed in the following steps, but was previously removed. The procedure for removing the document feeder (below) is correct for the printer.

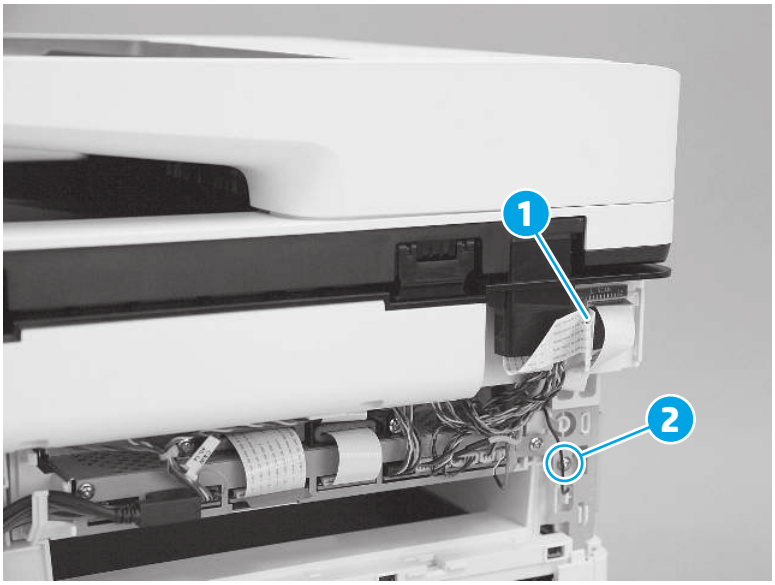
a. Remove one screw (callout 1), and then remove the cable cover (callout 2).

Figure 1-432 Remove the cover



b. Disconnect one flat-flexible cable (FFC; callout 1), and then remove one ground screw (callout 2).

Figure 1-433 Disconnect the FFC and the ground cable



c. Tilt the document feeder back until it stops (callout 1), and then lift it up until it stops (callout 2).

Figure 1-434 Raise the document feeder

d. Support the document feeder, and then use a small flat-blade screwdriver to release two tabs on the document feeder hinges.

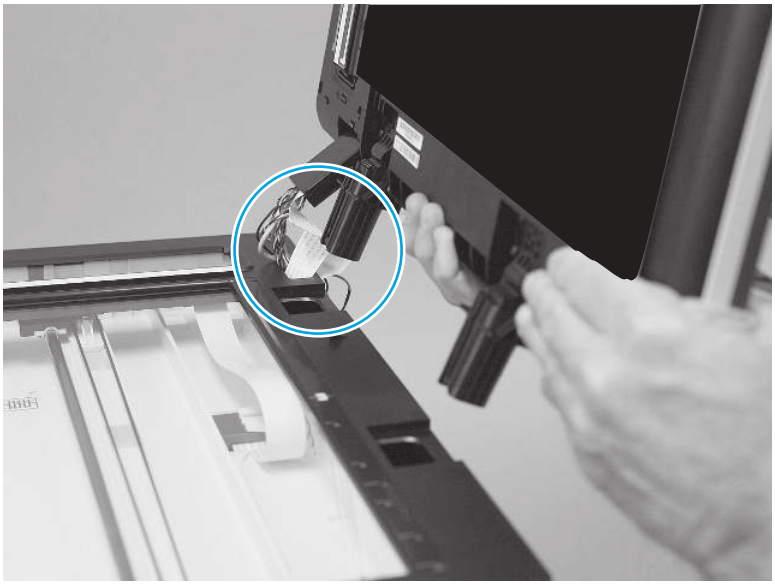
NOTE: The tabs are located on the front side (scanner flatbed glass) of the hinges. Use the figure to locate the tabs.

Figure 1-435 Release two tabs

e. Lift the document feeder up to remove it.

NOTE: While removing the document feeder, carefully pass the wire harnesses and the FFC through the opening in the scanner.

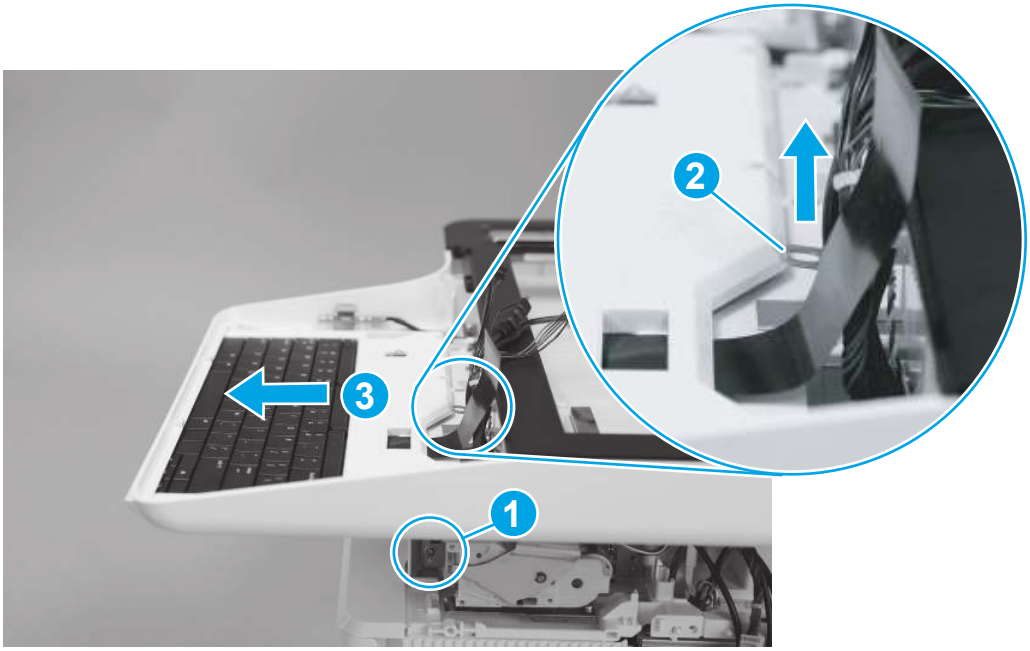
Figure 1-436 Remove the document feeder



f. Remove one screw (callout 1), and then remove the control panel grounding clip (callout 2).

NOTE: M527c/z, E52545c/z, M528c/z, and E52645c/z only: Remove the keyboard (callout 3).

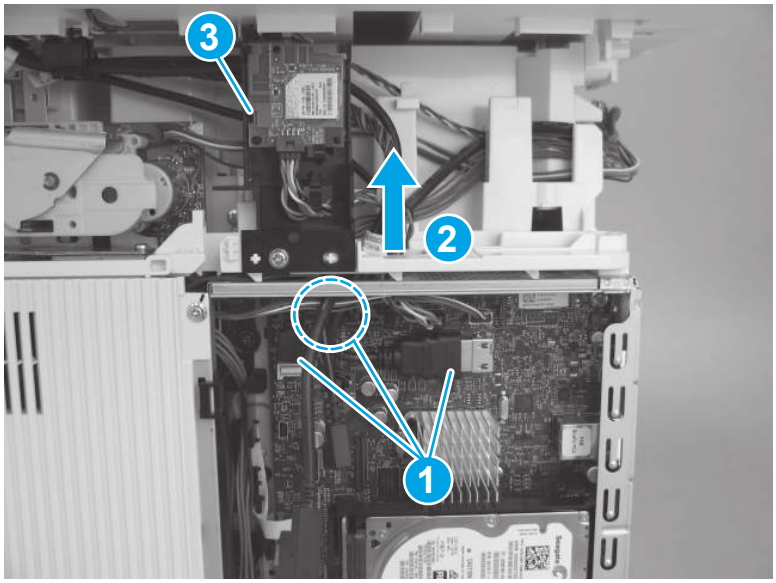
Figure 1-437 Remove one screw



g. Disconnect three connectors (callout 1), and then pass the wire harnesses and cables through the opening in the cover (callout 2).

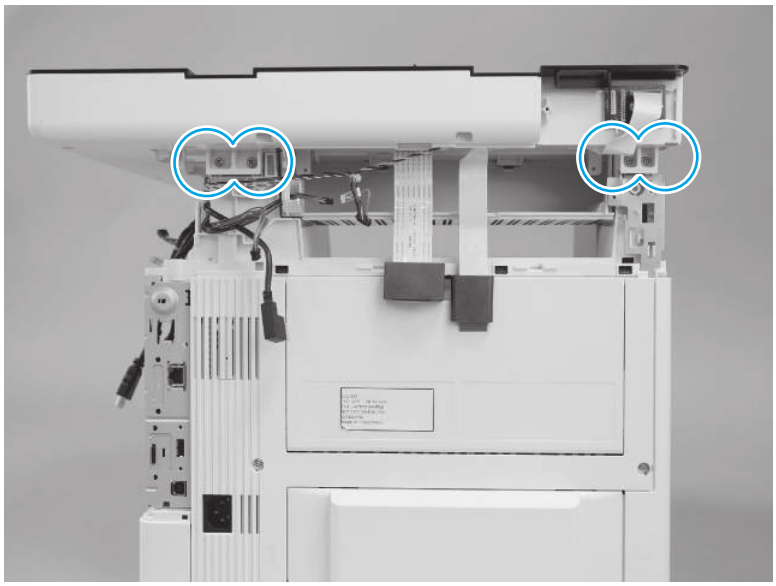
TIP: It might be easier if the WiFi PCA and holder (callout 3) is detached from the printer, and then moved out of the way.

Figure 1-438 Disconnect cables and connectors



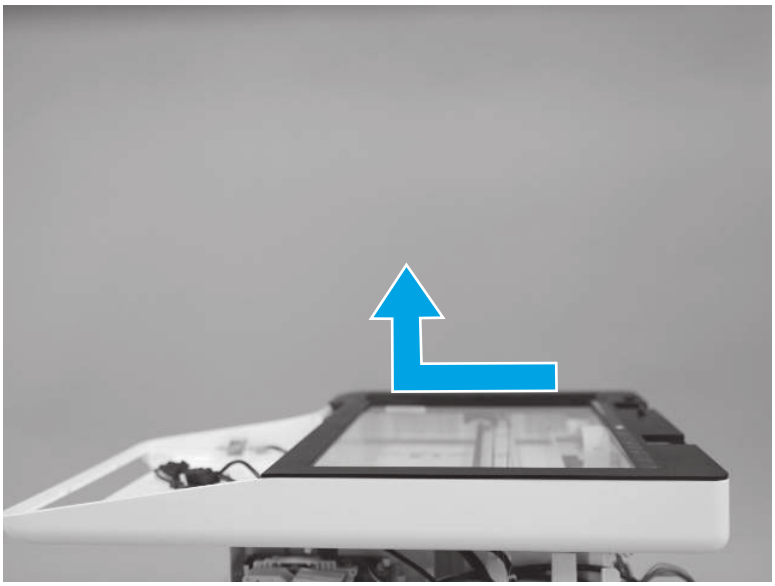
h. Remove four screws.

Figure 1-439 Remove four screws



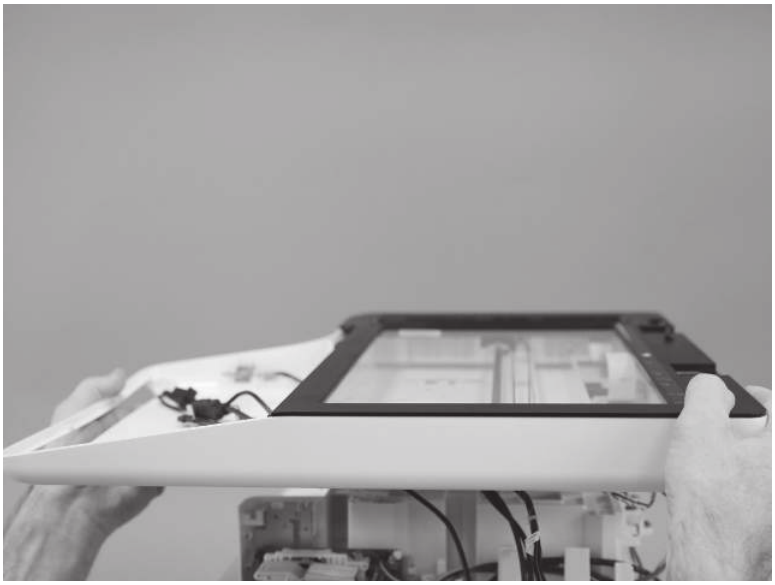
i. Slide the SSA toward the front of the printer to release it.

Figure 1-440 Release the SSA



j. Remove the SSA.

Figure 1-441 Remove the SSA



11. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

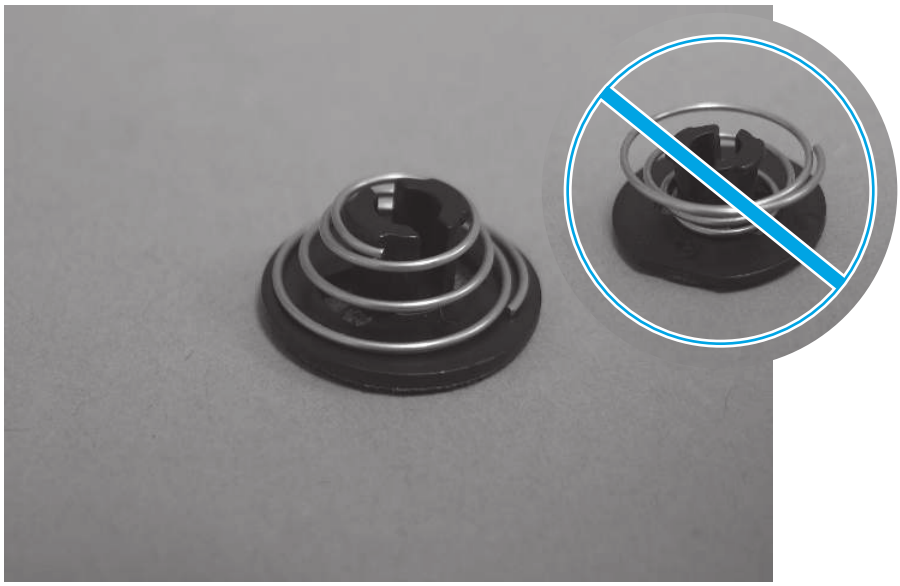
NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

12. Reverse the removal steps to install the assembly. Also use the following **special installation instructions**.

Install a replacement white backing

a. Verify that the springs are positioned correctly on the replacement retention clips.

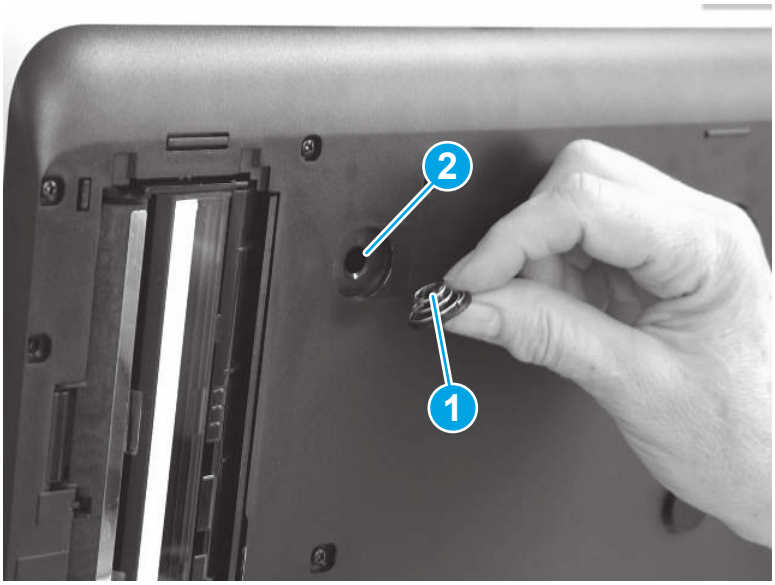
Figure 1-442 Check the retention clip spring



b. Install the clip (callout 1) in the opening (callout 2) in the document feeder.

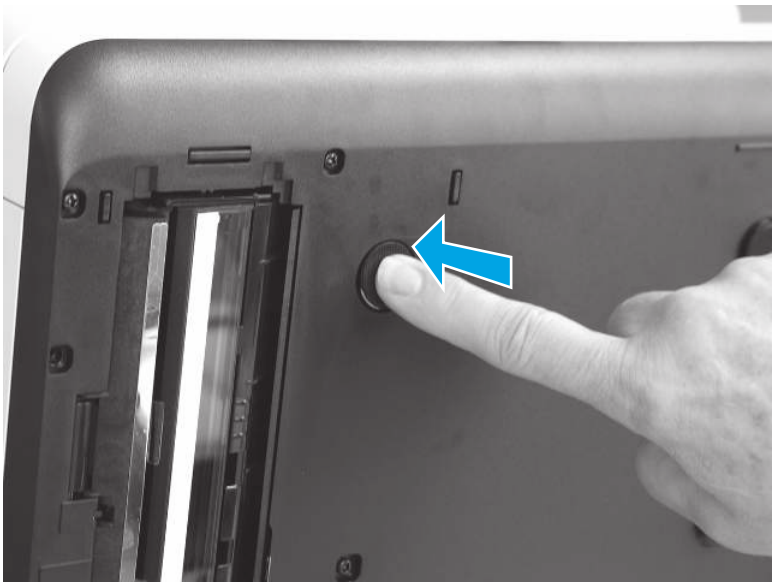
NOTE: Make sure that the springs are correctly installed. See the previous step.

Figure 1-443 Install the retention clip



c. Press the clip to make sure it is securely installed.

Figure 1-444 Press the retention clip



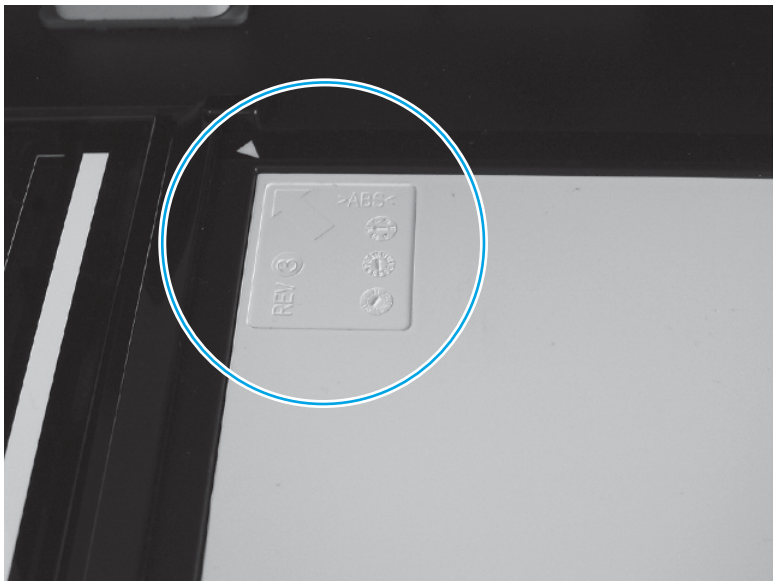
d. Remove the protective film off of each adhesive square.

Figure 1-445 White backing adhesive squares

e. Position the replacement white backing on the image scanner glass.

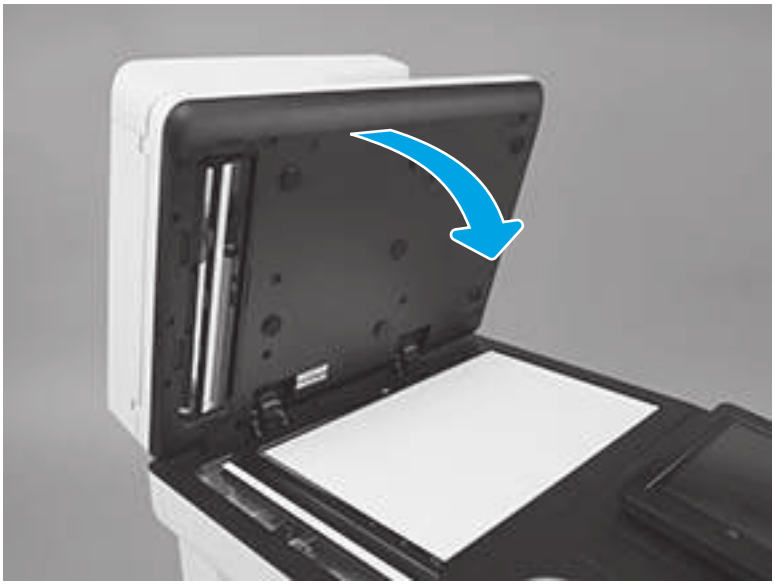
NOTE: Make sure that the corner with the embossed arrow on the white backing is positioned against the corner with the arrow on the scanner.

Figure 1-446 Install the white backing



f. Close the document feeder.

Figure 1-447 Close the document feeder



g. Open the document feeder and press on the white backing at the location of each retention clip to ensure that the backing is securely attached to the adhesive on the clips.

Figure 1-448 Check the white backing

h. Close the document feeder.

Figure 1-449 Close the document feeder

Removal and replacement: Internal parts and assemblies (base printer)

Learn how to remove and replace the base printer internal parts and assemblies.

Removal and replacement: Scanner control board (MFP)

Learn how to remove and replace the scanner control board (SCB).

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the SCB.

Mean time to repair: 12 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

⚠ **WARNING!** To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-27 Part information

Part number	Part description
B5L47-67903	Scanner control board kit with instruction guide

Required tools

- #2 Phillips screwdriver with a magnetic tip and a 152 mm (6 in) shaft length

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

Make sure that the printer initializes to a **Ready** state.

Print a configuration page to make sure that the printer is functioning correctly.

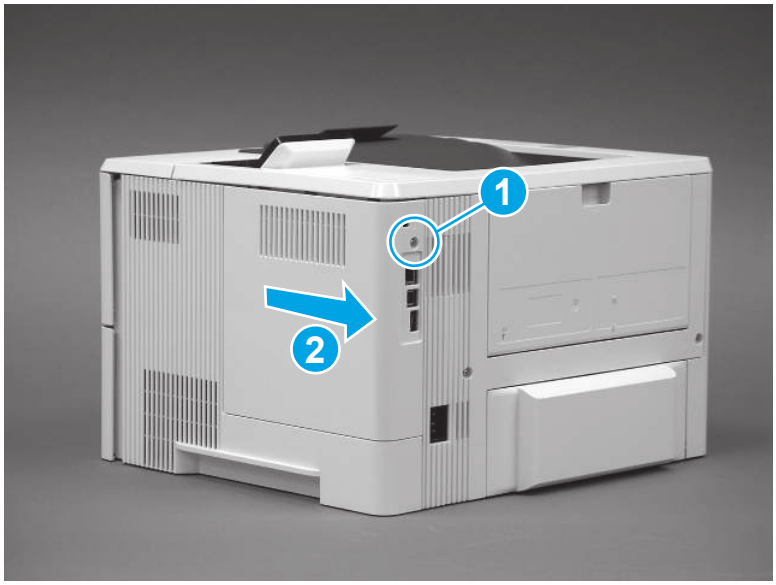
Use the flatbed glass to make a copy of the configuration page.

1. Remove the formatter cover.

   ▲ Do one of the following:

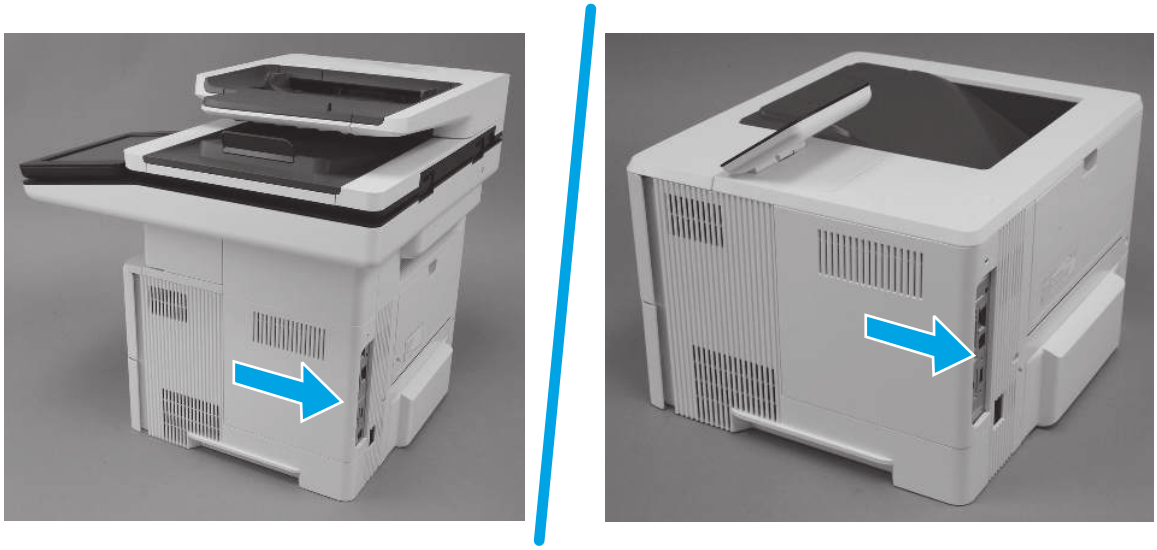
   - **M501**: Remove one screw (callout 1), and then slide the cover toward the rear of the printer to remove it (callout 2).

     Figure 1-450 Remove the formatter cover (M501)

   - **M506/E50045/M507/E50145/M527/E52545/M528/E52645**: Slide the cover toward the rear of the printer to remove it.

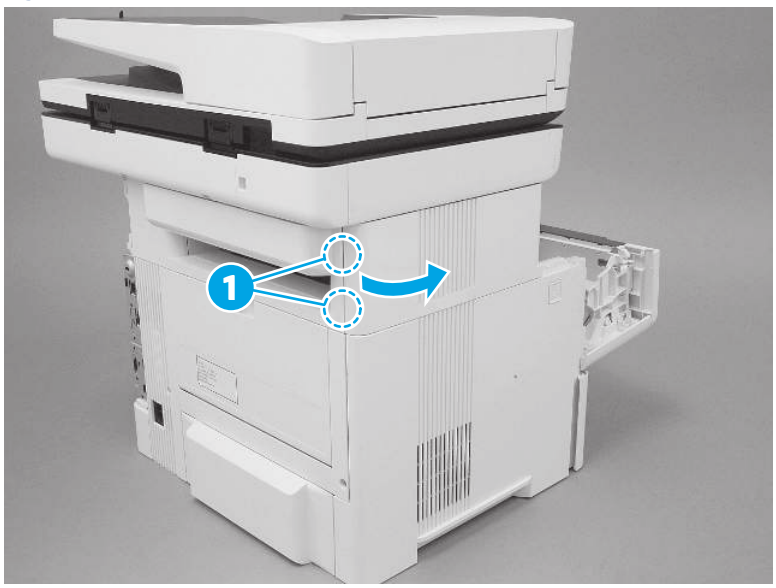
Figure 1-451 Remove the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)



2. Remove the top-left cover (M527/E52545M528/E52645).

   a. Open the toner-cartridge door, release two tabs (callout 1), and then rotate the rear edge of the cover away from the printer.

Figure 1-452 Release two tabs



b. Continue to rotate the cover away from the printer to release two more tabs at the middle of the cover.

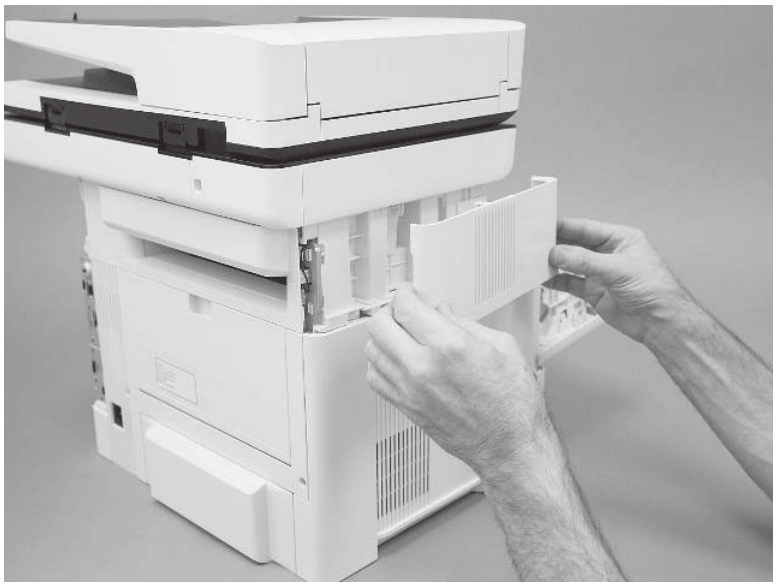
Figure 1-453 Release two tabs

c. Slide the cover toward the rear of the printer to release two bosses at the front of the cover.

Figure 1-454 Slide the cover

d. Remove the cover.

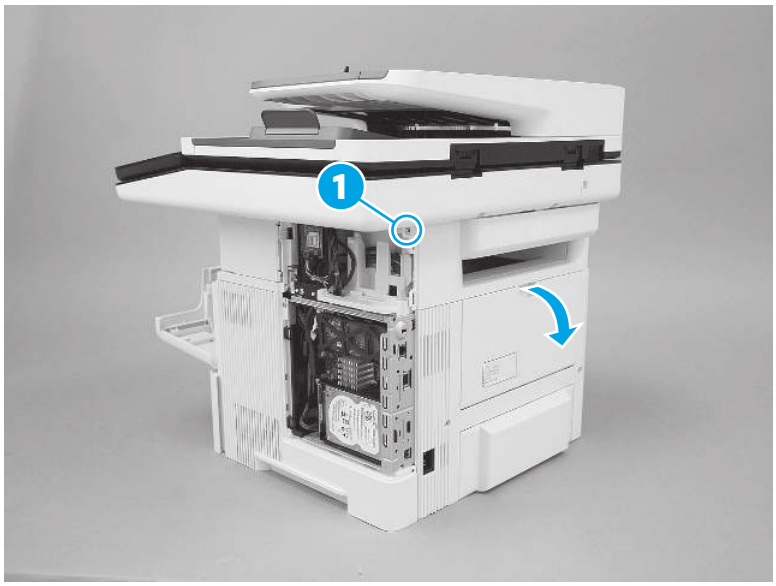
Figure 1-455 Remove the cover



3. Remove the top-rear cover (M527/E52545/M528/E52645).

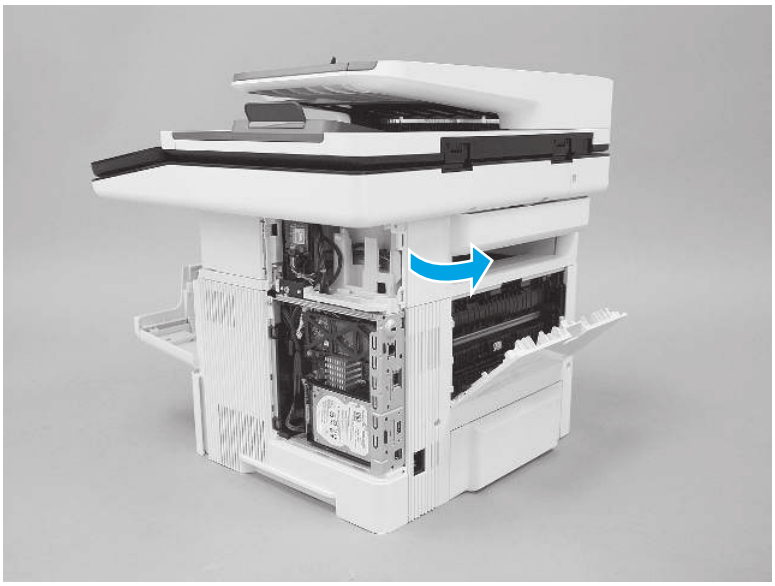
a. Remove one screw (callout 1), and then open the rear door.

Figure 1-456 Remove one screw



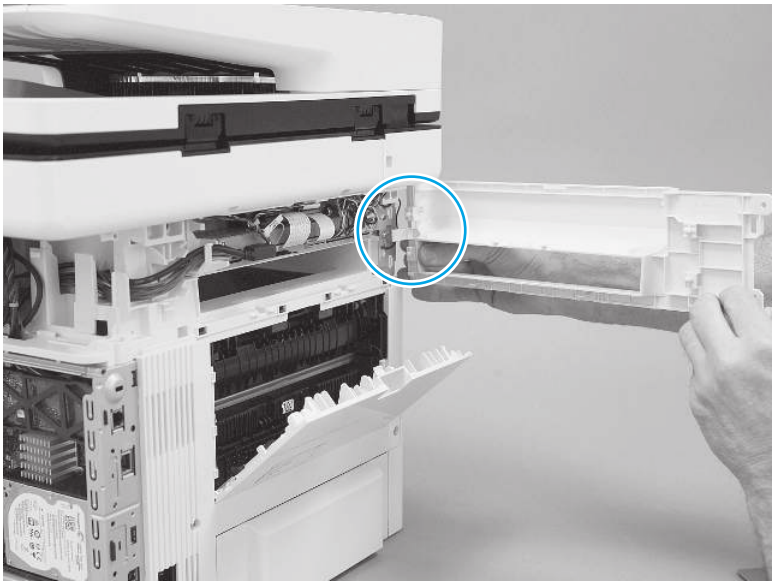
b. Rotate the exposed edge of the cover away from the printer (as shown).

Figure 1-457 Rotate the cover



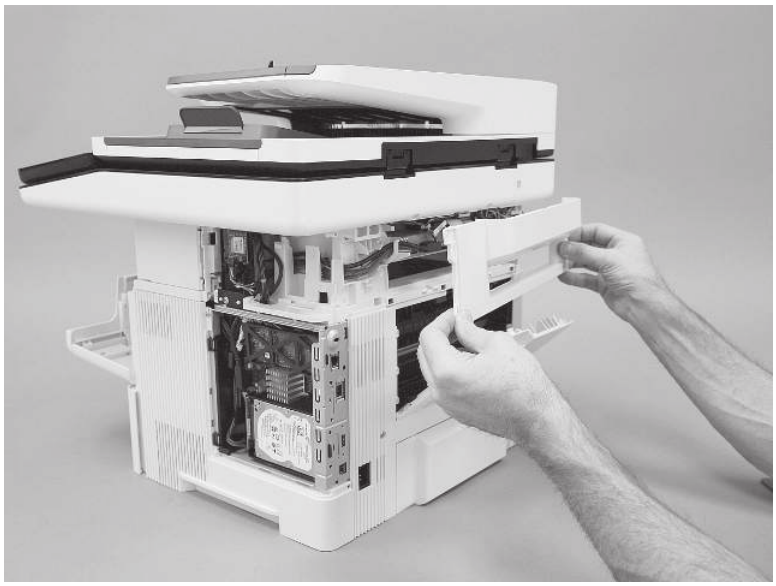
c. Continue to rotate the cover away from the printer to release one boss.

Figure 1-458 Release one boss



d. Remove the cover.

Figure 1-459 Remove the cover

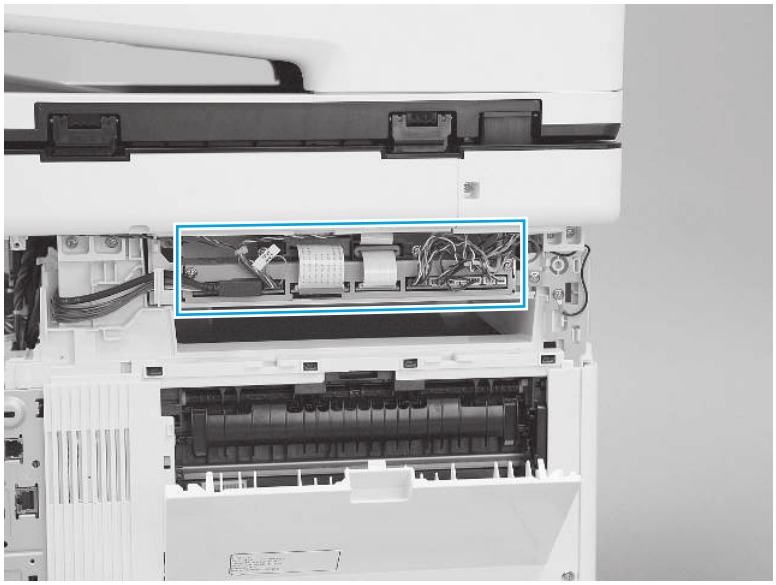


4. Remove the scanner control board (SCB).

a. Disconnect all of the connectors from the SCB.

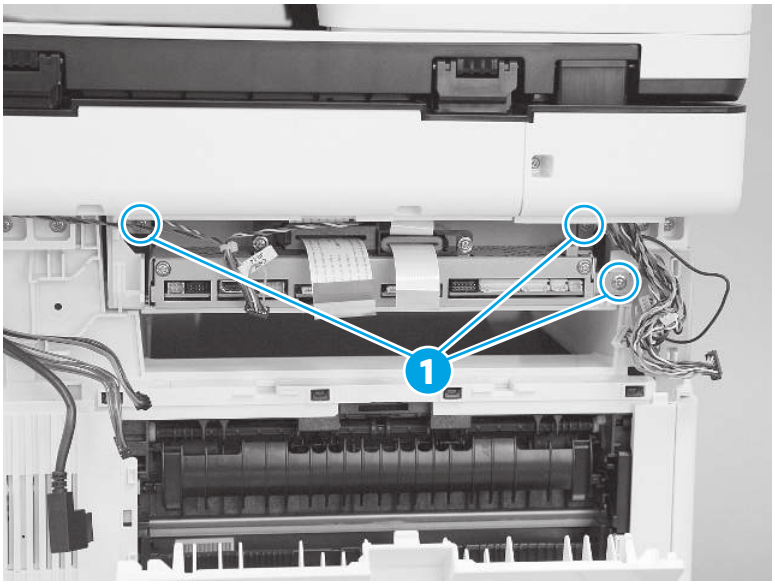
Reinstallation tip: There are eight wire-harness connectors, two flat-flexible cables (FFCs), and one high definition multimedia interface (HDMI) cable connector.

Figure 1-460 Disconnect all of the connectors



b. Remove three screws (callout 1).

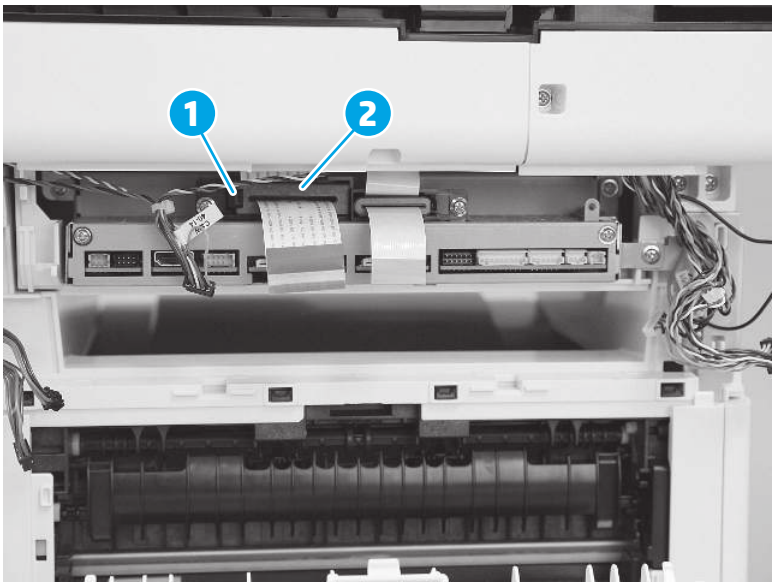
Figure 1-461 Remove three screws



c. Release one tab (callout 1), and then remove one ferrite from the holder (callout 2).

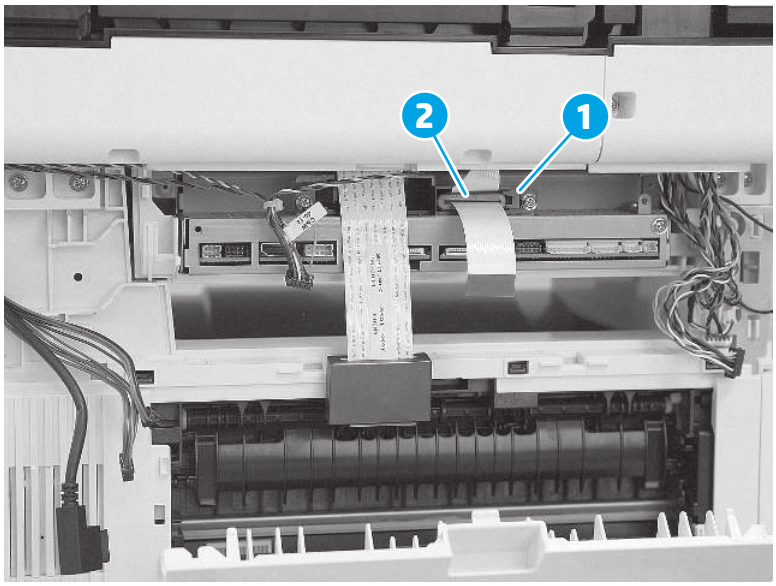
NOTE: The ferrite does not need to be removed from the FFC. Simply let it slide down the FFC until it stops, and then let it hang out of the way.

Figure 1-462 Remove one ferrite



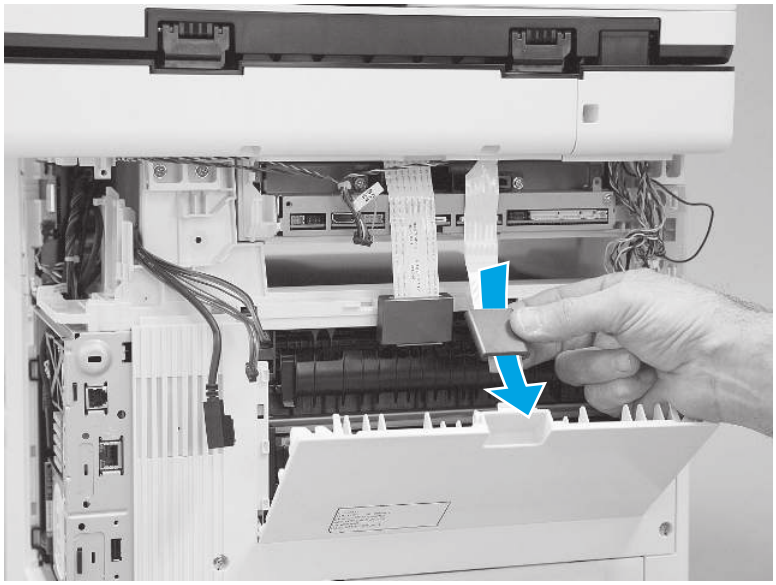
d. Release one tab (callout 1), and then remove one ferrite from the holder (callout 2).

Figure 1-463 Remove one ferrite



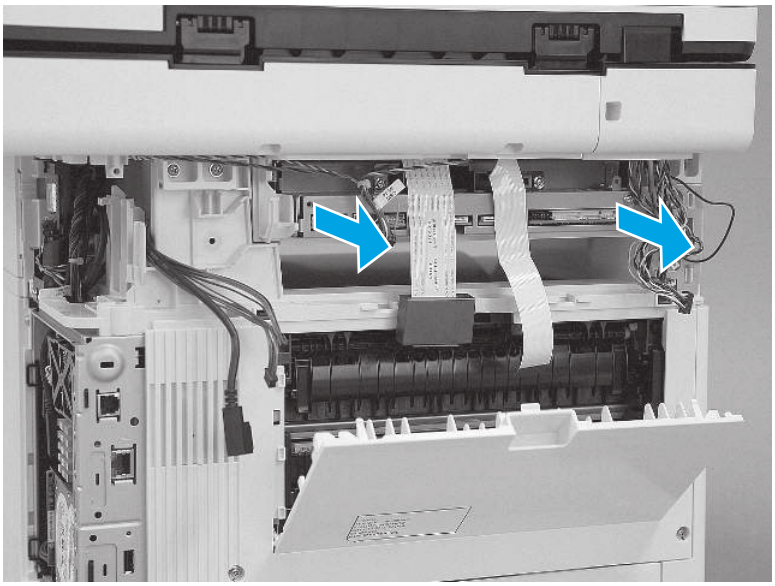
e. Slide the ferrite down the FFC to remove it.

Figure 1-464 Remove the ferrite from the FFC



f. Slide the SCB straight out of the printer.

Figure 1-465 Slide the SCB out

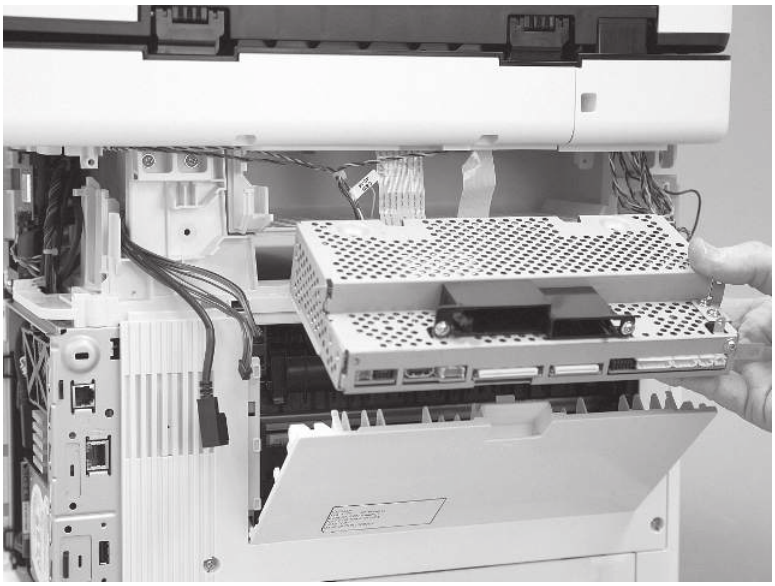


g. Remove the SCB.

Reinstallation tip: For a replacement SCB, do the following

1. Remove two screws, and then remove the SCB cage top cover.
2. Install the top cover on the replacement SCB.

Figure 1-466 Remove the SCB



5. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Removal and replacement: Near field communication printed-circuit assembly (M527z/E52545z)

Learn how to remove and replace the near field communication (NFC) printed-circuit assembly (PCA).

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the NFC.

Mean time to repair: 12 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

WARNING! To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-28 Part information

Part number	Part description
B5L24-60001	Near field communication (NFC) PCA (M527z/E52545z) NOTE: This NFC is also used for the M506x/E50045x printer.

Required tools

- No special tools are required to remove or install this assembly.

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

Use an NFC enabled device to print a job from the printer.

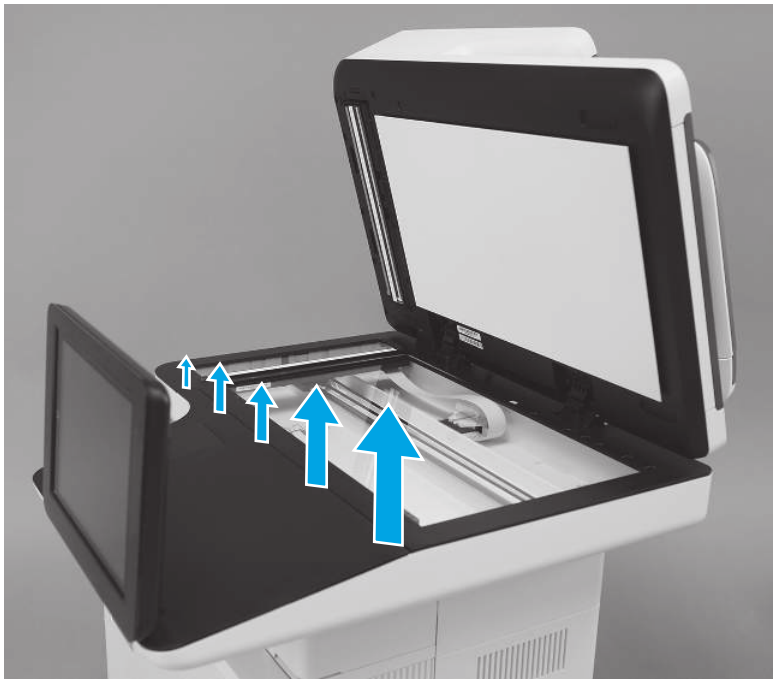
1. Remove the control-panel cover.
   a. If the document feeder is not open, open it now.

   NOTE: If the control panel is not fully tilted forward, tilt it forward now until it stops.

   Figure 1-467 Open the document feeder

b. Beginning at the right side of the control-panel cover, carefully release five tabs along the top edge of the cover.

Figure 1-468 Release five tabs



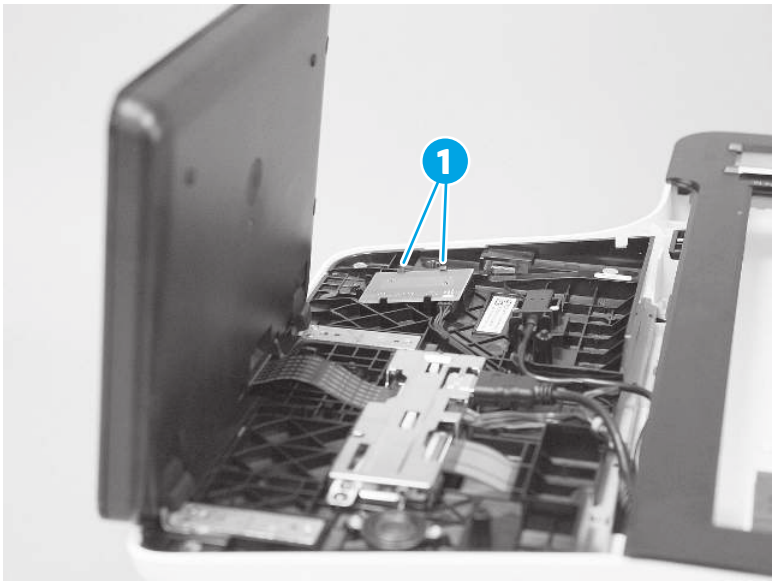
c. Continue to rotate the top edge of the cover away from the printer, and then remove the cover.

Figure 1-469 Remove the cover

2. Remove the NFC PCA.

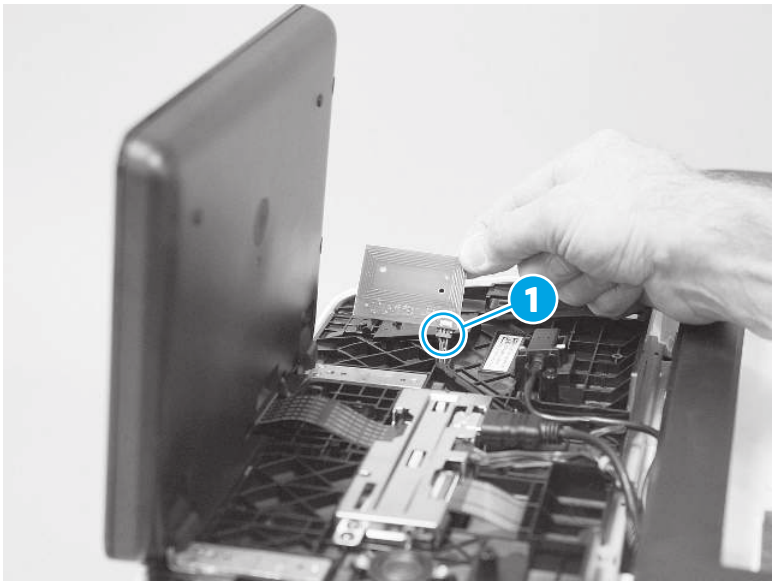
a. Release two tabs (callout 1).

Figure 1-470 Release two tabs



b. Turn the NFC PCA over to access the bottom side, disconnect one connector (callout 1), and then remove the NFC PCA.

Figure 1-471 Remove the NFC PCA



3. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Removal and replacement: Wireless printed-circuit board (WiFi) (M506x/E50045x)

Learn how to remove and replace the wireless PCA.

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the wireless PCA.

Mean time to repair: 8 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

WARNING! To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-29 Part information

Part number	Part description
1150-7968	Wireless PCA (M506x/E50045x)

Required tools

- #2 Phillips screwdriver with a magnetic tip and a 152 mm (6 in) shaft length

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

Use a wireless device to print a job from the printer.

1. Remove the tray.

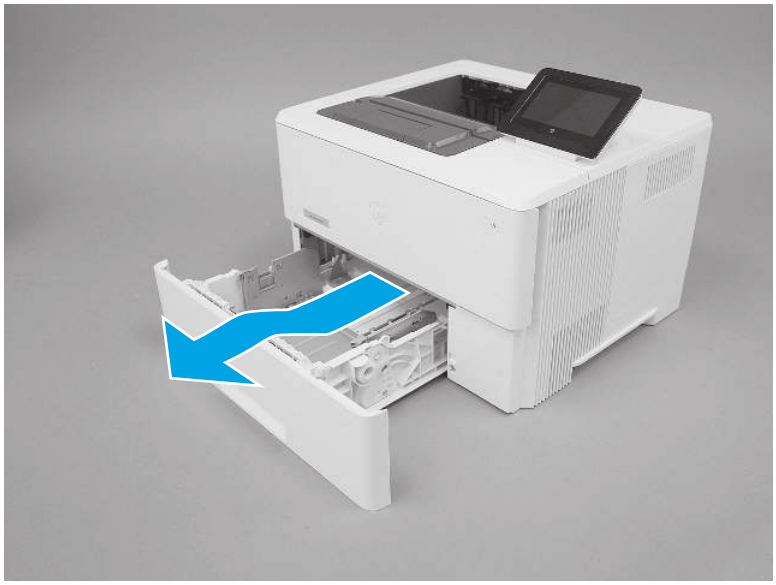
   a. Pull the tray straight out of the printer until it stops.

   Figure 1-472 Pull the tray out until it stops

   b. Lift the front of the tray, and then pull it out of the printer to remove it.

   NOTE: If the tray has Fixed Tray Guides installed and are still required, move the hardware to new tray. If necessary, order new kit: 3GY19-67901 Kit-Fixed Tray Guide. Only one kit required per engine.

Figure 1-473 Release and remove the tray

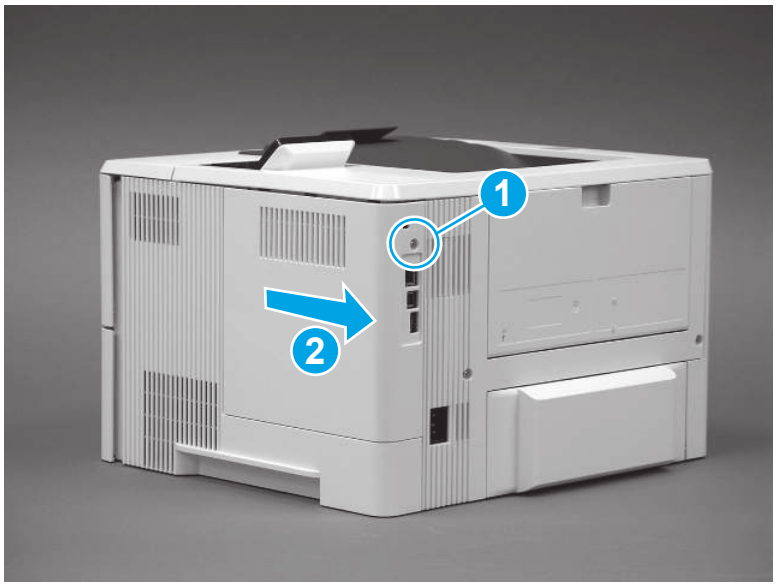


2. Remove the formatter cover.

▲ Do one of the following:

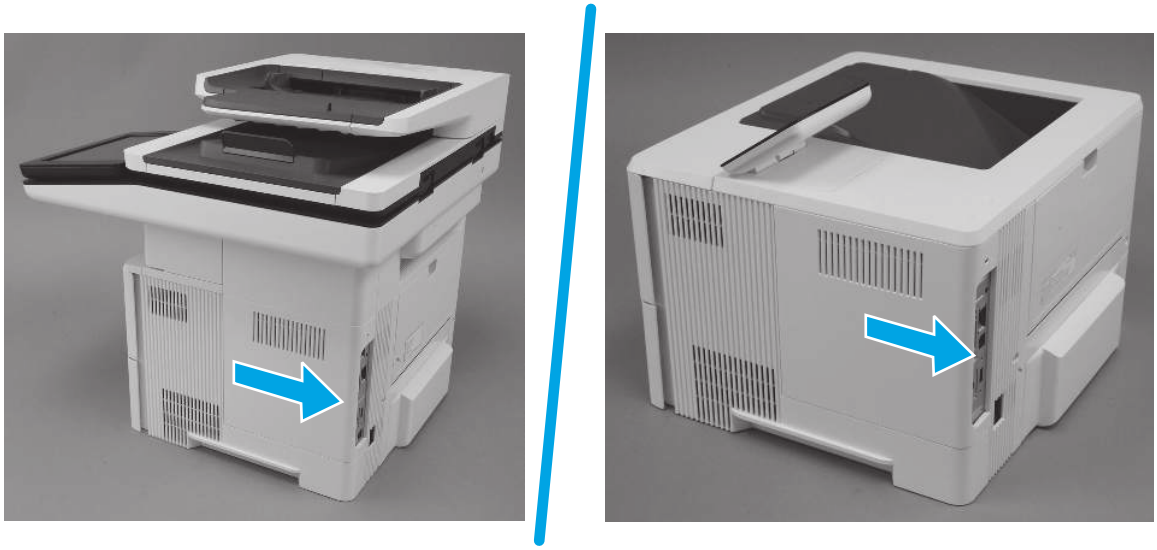
- M501: Remove one screw (callout 1), and then slide the cover toward the rear of the printer to remove it (callout 2).

Figure 1-474 Remove the formatter cover (M501)



- M506/E50045/M507/E50145/M527/E52545/M528/E52645: Slide the cover toward the rear of the printer to remove it.

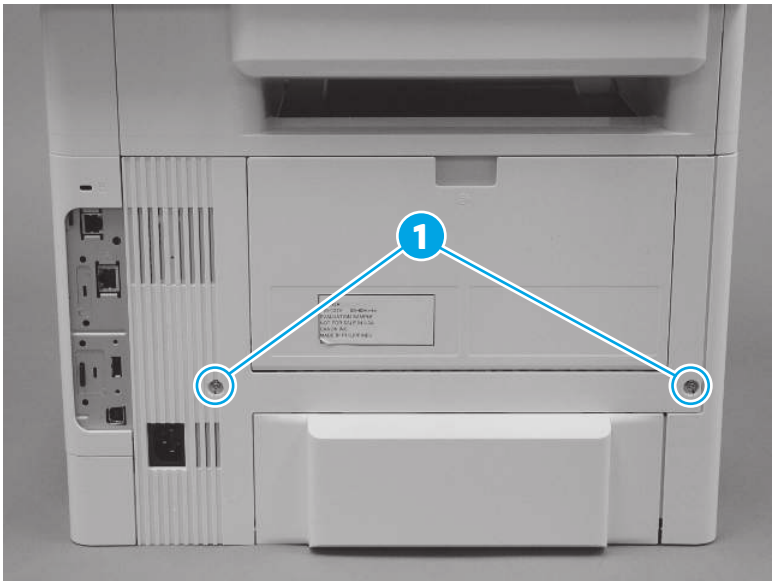
Figure 1-475 Remove the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)



3. Remove the rear door assembly.

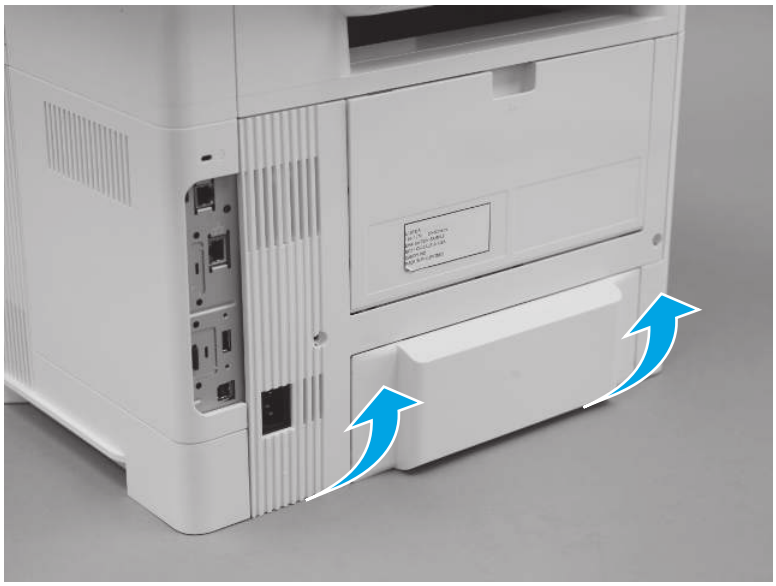
   a. At the rear of the printer, remove two screws (callout 1).

Figure 1-476 Remove two screws



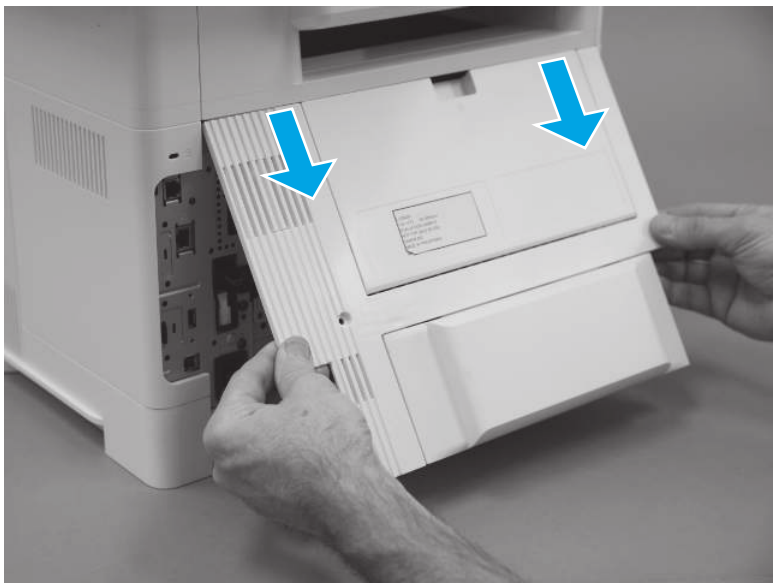
b. Rotate the bottom edge of the assembly away from the printer to release it.

Figure 1-477 Rotate the bottom of the cover



c. Pull down on the assembly to remove it.

Figure 1-478 Remove the cover



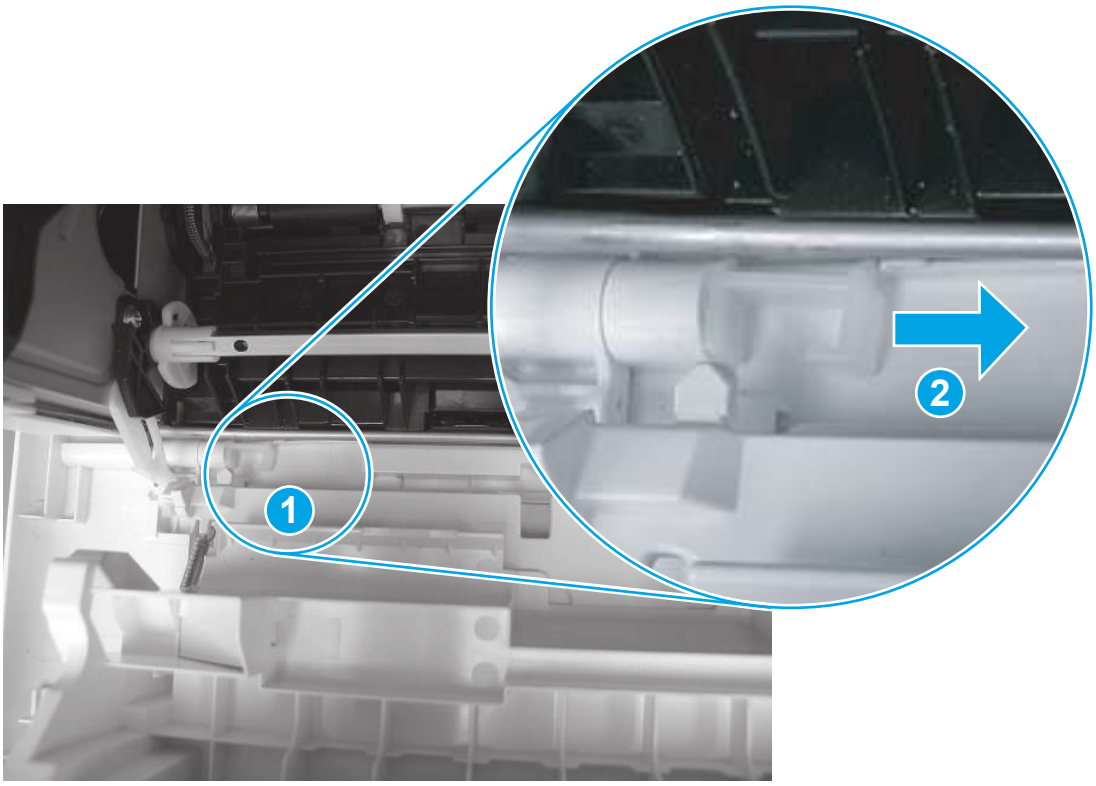
4. Remove the cartridge door assembly.

NOTE: If the toner cartridge was not removed prior to servicing the printer, remove it now.

a. Release the support shaft (callout 1), and then slide it toward the center of the door (callout 2).

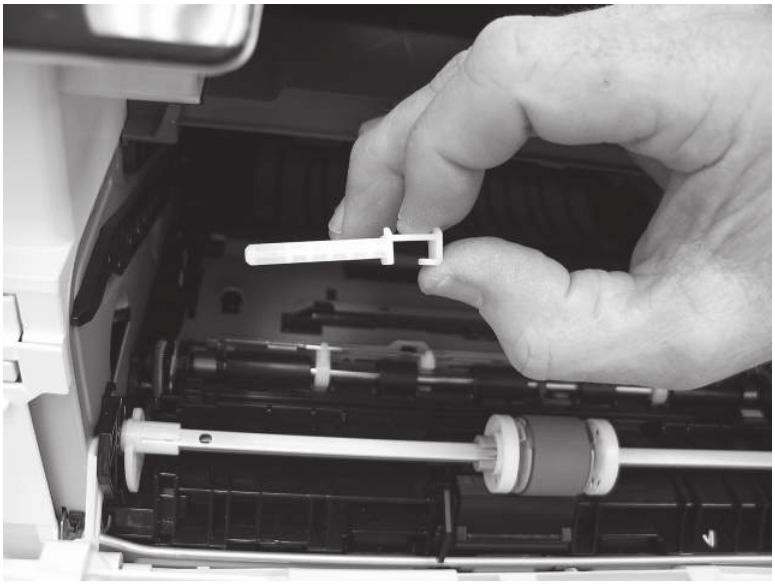
TIP: It might be easier to release the support shaft by using a small flat-blade screwdriver.

Figure 1-479 Release the support shaft



b. Remove the support shaft.

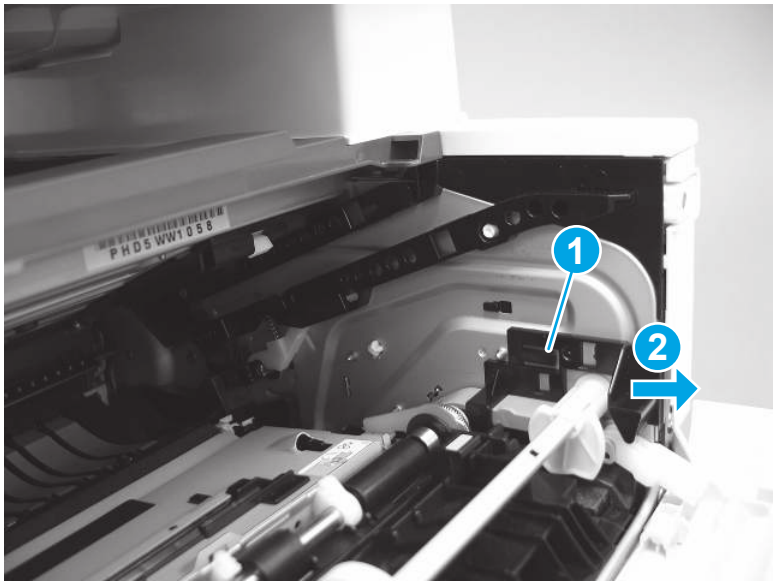
Figure 1-480 Remove the support shaft



c. Release one tab (callout 1), and then slide the guide out of the printer (callout 2).

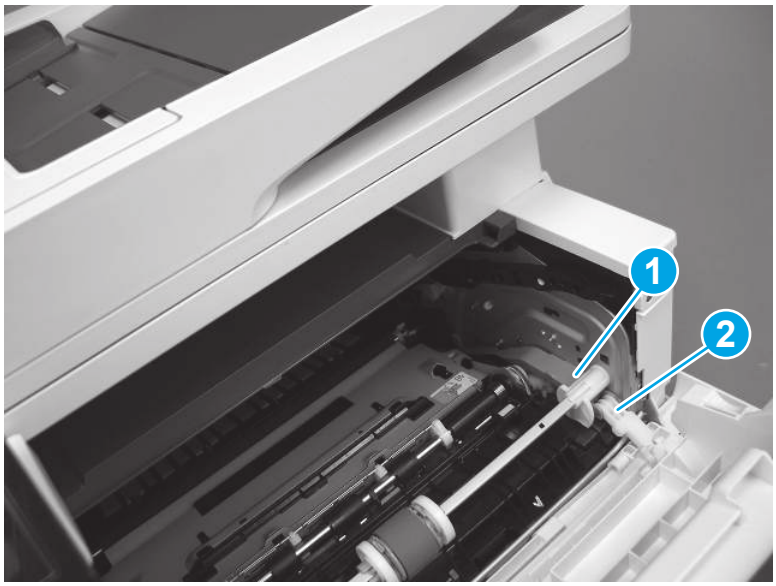
⚠ CAUTION: Be careful, the tab (callout 1) can be easily broken.

Figure 1-481 Remove the guide



d. Use a small flat-blade screwdriver to gently pry the white-plastic door arm (callout 1) off of the gray-plastic pressure-release link (callout 2) to release the door arm.

Figure 1-482 Release the pressure-release link



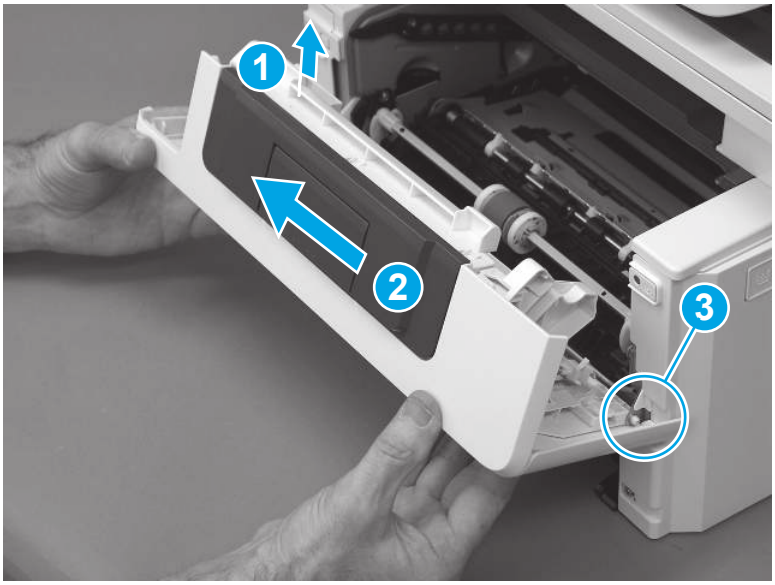
e. With the door in the partially closed position, slightly raise the left end (callout 1; raise it over the sheet-metal hinge boss), and then slide the door to the left (callout 2) to release the right hinge (callout 3).

⚠ CAUTION: The door is still attached to the printer by the left-side retainer arm. Do not attempt to completely remove the door.

Reinstallation tip: When reinstalling the door, there are two right-side hinge pins (not shown in callout 3).

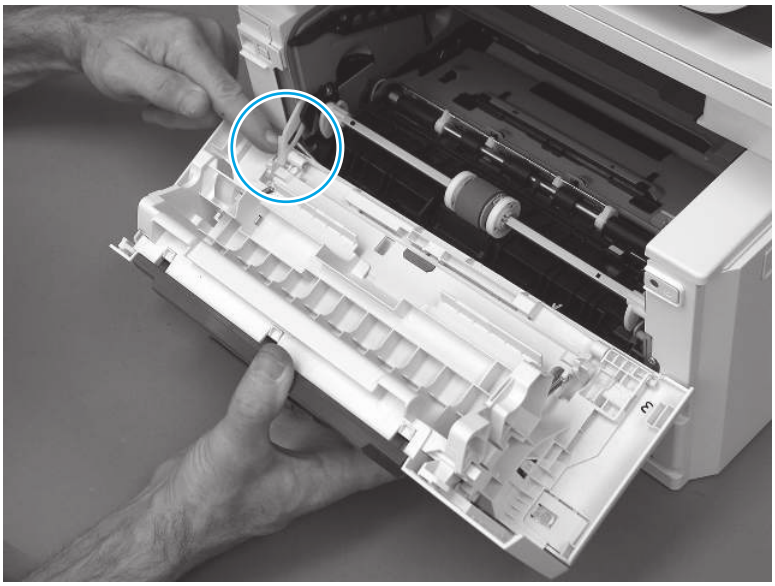
Keep a finger pressed on the left-side retainer arm so that it does not disengage from the door.

Figure 1-483 Release the door



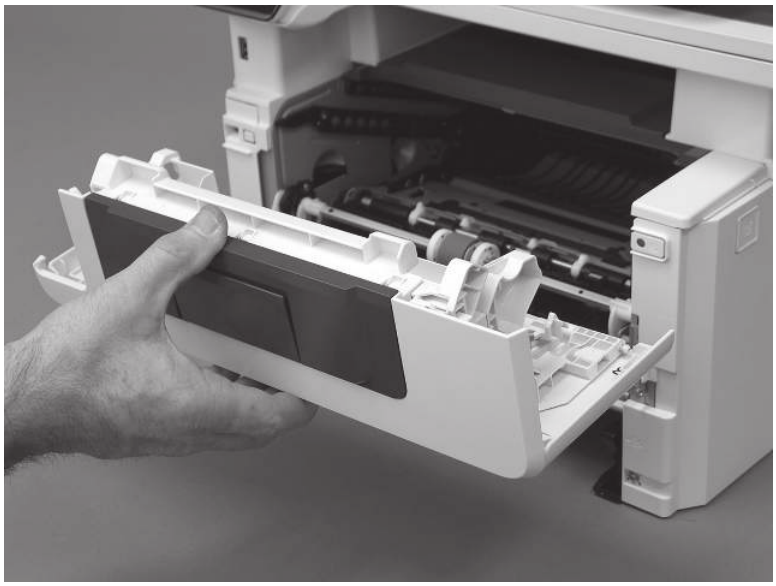
f. Rotate the door away from the printer until the keyed pin on the left-side retainer arm can disengage from the door.

Figure 1-484 Release the left-side retainer arm



g. Remove the door.

Figure 1-485 Remove the door



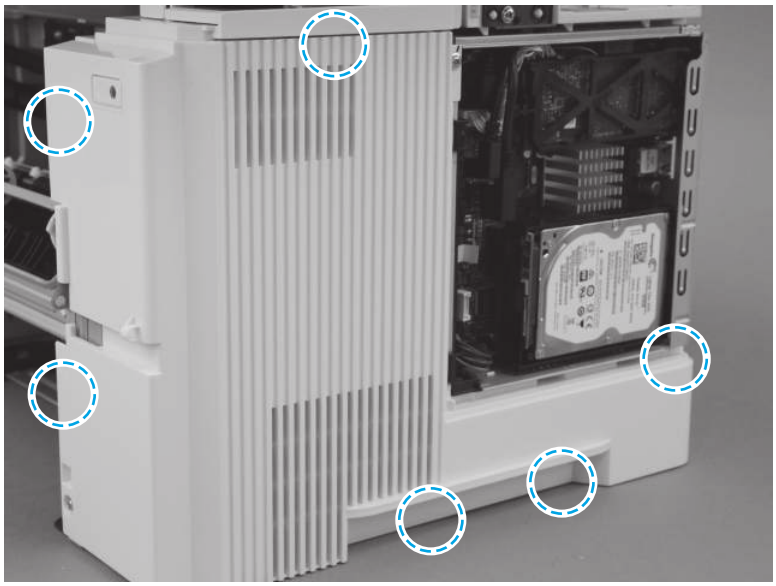
5. Remove the right cover.

IMPORTANT: The black-plastic cassette front and rear guides (located inside the tray cavity) can be easily dislodged. Do not lose the guides when the cover is removed or installed.

An MFP printer is shown in this section. However, the procedure is correct for all printer models.

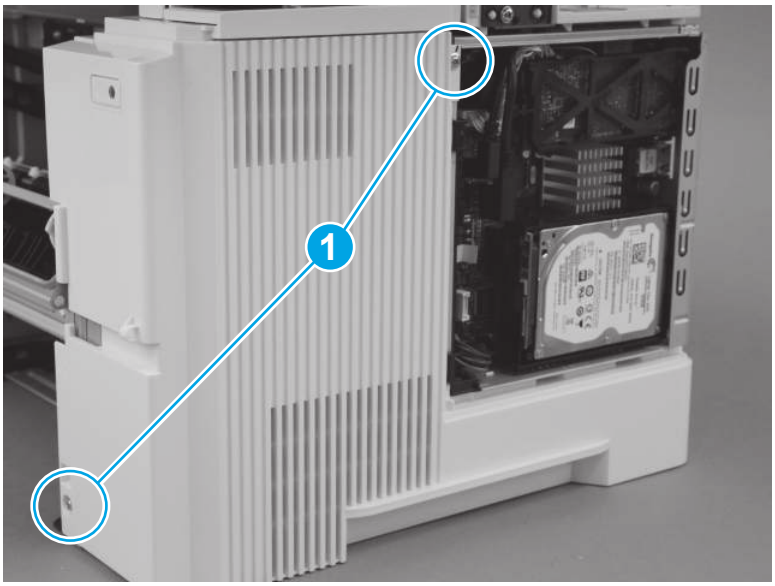
a. Before proceeding, take note of the location of the tabs and bosses on the inside of the cover.

Figure 1-486 Locate the tabs and bosses



b. Remove two screws (callout 1).

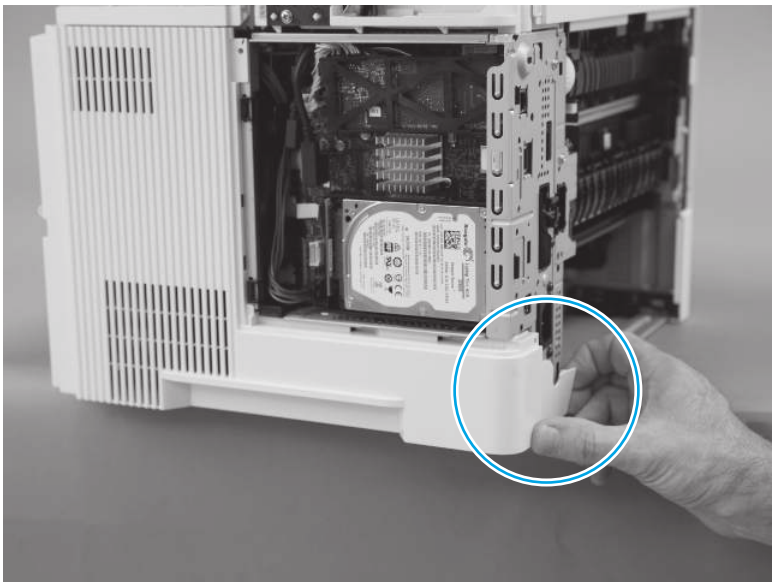
Figure 1-487 Remove two screws



c. At the rear of the printer, release one boss.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

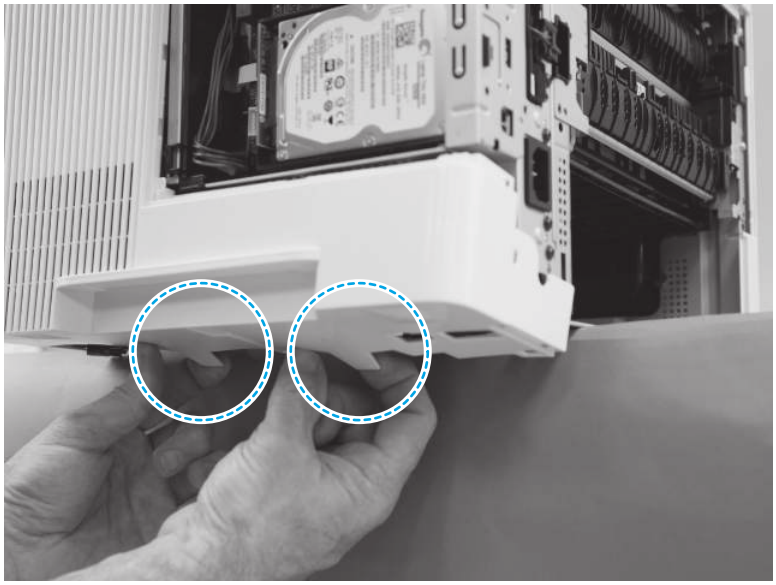
Figure 1-488 Release one boss



d. At the bottom edge of the cover, release two bosses.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

Figure 1-489 Release two bosses

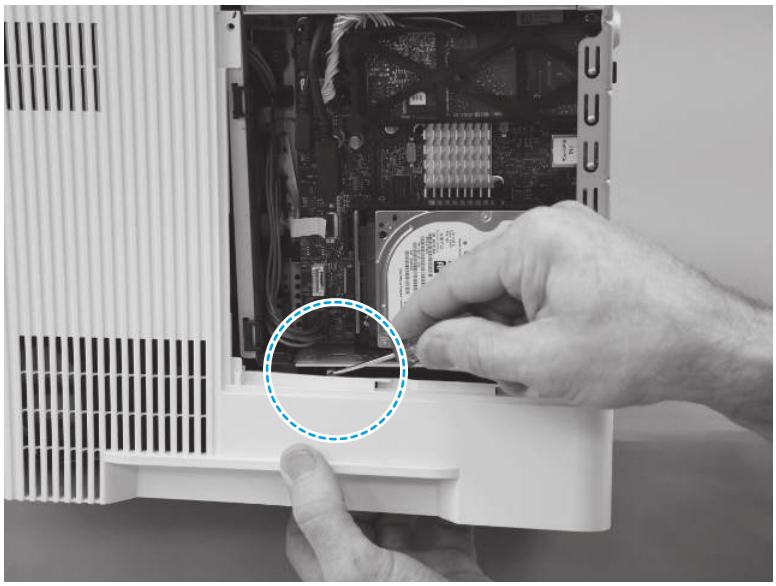


e. Near the formatter, release one tab.

CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

TIP: Hold the bottom of the cover away from the printer, and then use a small flat-blade screw driver to easily release this tab.

Figure 1-490 Release one tab

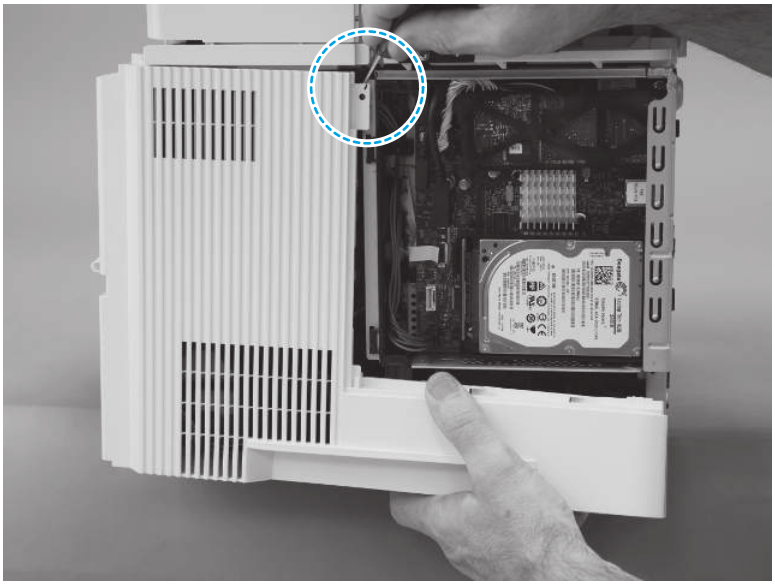


f. At the top rear edge of the cover, release one tab.

CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

TIP: Use a small flat-blade screw driver to easily release this tab.

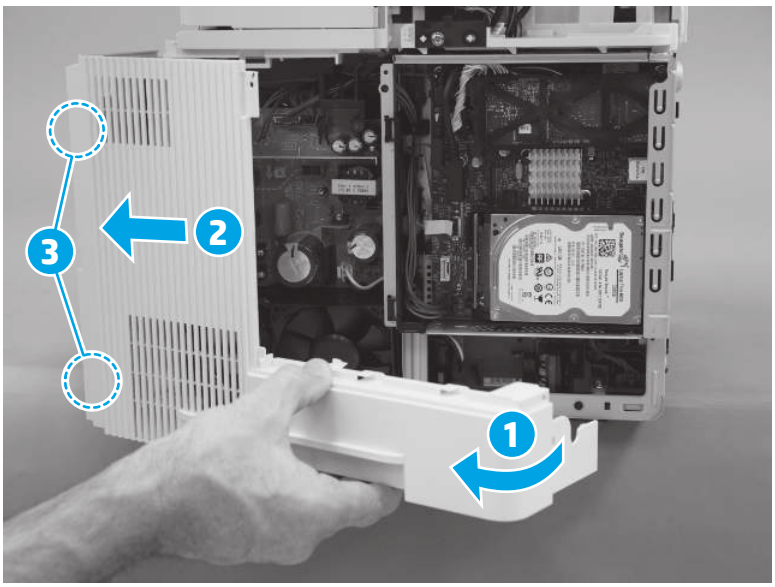
Figure 1-491 Release one tab



g. Rotate the rear of the cover away from the printer (callout 1), slide the cover toward the front of the printer (callout 2) to release two bosses (callout 3), and then remove the cover.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

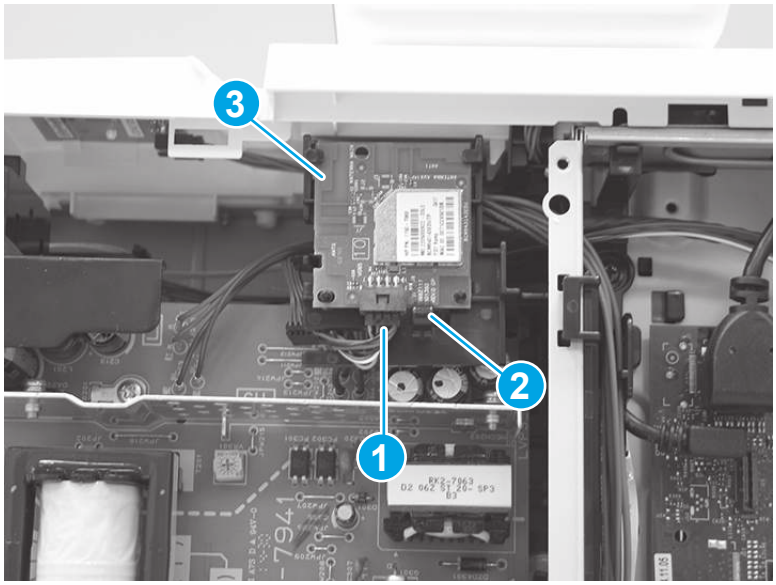
Figure 1-492 Remove the cover



6. Remove the wireless PCA (WiFi) (M506x/E50045x).

▲ Disconnect one connector (callout 1) release one tab (callout 2), and then remove the WiFi PCA (callout 3).

Figure 1-493 Remove the WiFi PCA



7. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Removal and replacement: Wireless printed-circuit board (WiFi) (M507x/E50145x)

Learn how to remove and replace the wireless PCA.

To view a short video of this procedure, click the link below

View a video of how to remove and replace the wireless PCA.

Mean time to repair: 8 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

> ⚠ **WARNING!** To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-30 Part information

Part number	Part description
1150-7968	Wireless PCA (M507x/E50145x)

Required tools

- Small flat-blade screwdriver

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

Use a wireless device to print a job from the printer.

1. Remove the wireless PCA (WiFi) (M507x/E50145x).

a. Open the cartridge door.

Figure 1-494 Open the cartridge door

b. Use a small flat-blade screwdriver to carefully release the WiFi PCA cover, and then remove the cover.

Figure 1-495 Remove the cover

c. Release two tabs, and then separate the WiFi PCA from the printer.

⚠ CAUTION: The PCA is still attached to the printer by a wire harness. Do not attempt to completely remove the PCA.

Figure 1-496 Release the PCA

d. Disconnect one connector, and then remove the WiFi PCA.

Figure 1-497 Remove the WiFi PCA

2. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the

sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Removal and replacement: Wireless printed-circuit board (M527z/E52545z/M528z/E52645z)

Learn how to remove and replace the wireless PCA.

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the wireless PCA.

Mean time to repair: 8 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

WARNING! To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-31 Part information

Part number	part description
1150-7968	Wireless PCA (M527z/E52545z/M528z/E52645z)

Required tools

- No special tools are required to remove or install this assembly.

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

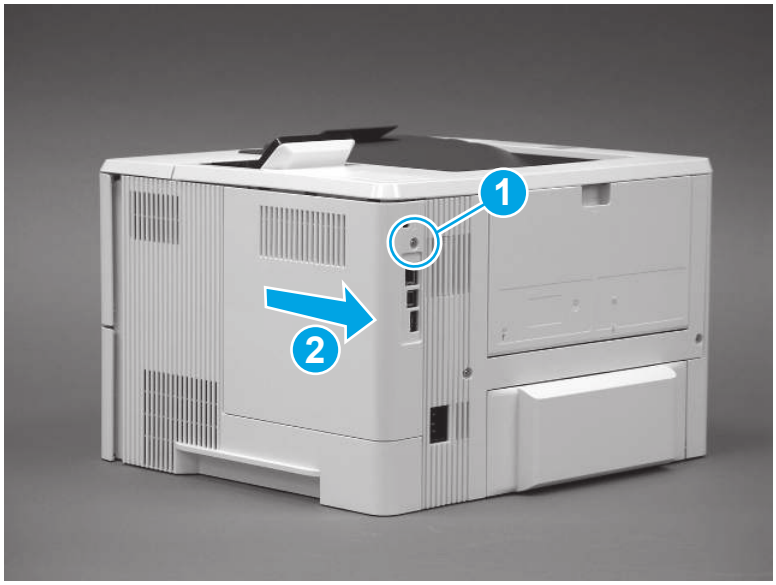
Use a wireless device to print a job from the printer.

1. Remove the formatter cover.

   ▲ Do one of the following:

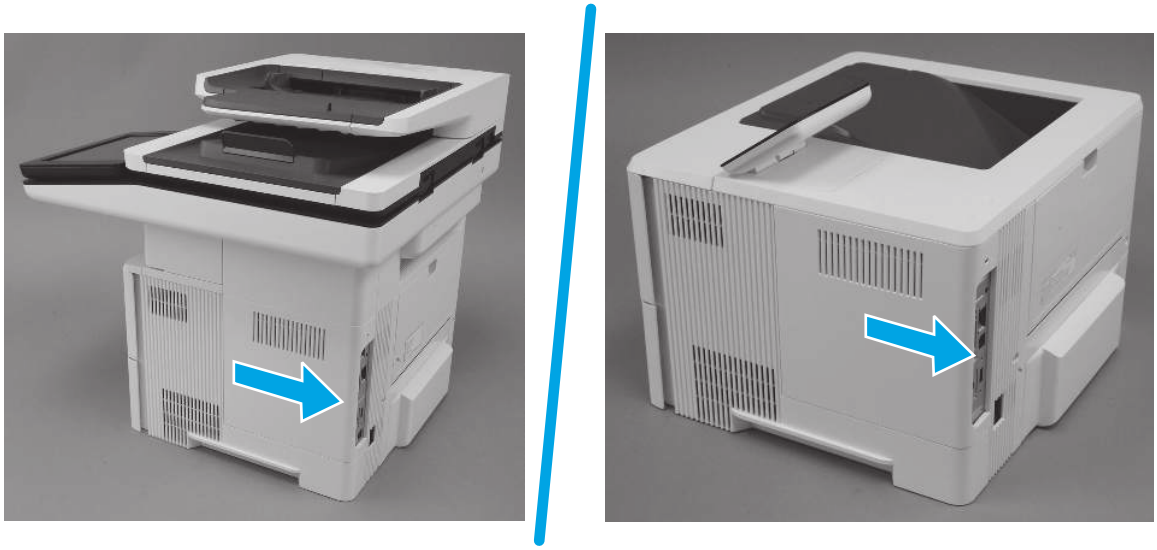
   - **M501**: Remove one screw (callout 1), and then slide the cover toward the rear of the printer to remove it (callout 2).

     Figure 1-498 Remove the formatter cover (M501)

   - **M506/E50045/M507/E50145/M527/E52545/M528/E52645**: Slide the cover toward the rear of the printer to remove it.

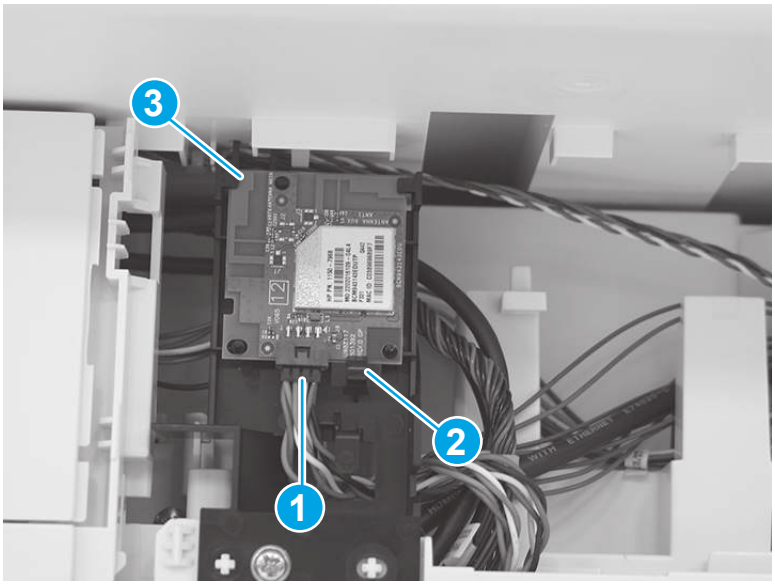
     Figure 1-499 Remove the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)

2. Remove the wireless PCA (WiFi) (M527z/E52545z/M528z/E52645z).

▲ Disconnect one connector (callout 1) release one tab (callout 2), and then remove the WiFi PCA (callout 3).

Figure 1-500 Remove the WiFi PCA



3. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Removal and replacement: Fuser

Learn how to remove and replace the fuser.

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the fuser.

Mean time to repair: 12 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

WARNING! To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Make sure the correct voltage fuser is installed in the printer.

CAUTION: The fuser is hot. Wait at least 30 minutes after turning the printer power off before removing the fuser.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-32 Part information

Part number	Part description
RM2-2585-000CN	Fuser (110V/127V)
RM2-2586-000CN	Fuser (220V/240V)

Required tools

- #2 Phillips screwdriver with a magnetic tip and a 152 mm (6 in) shaft length

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

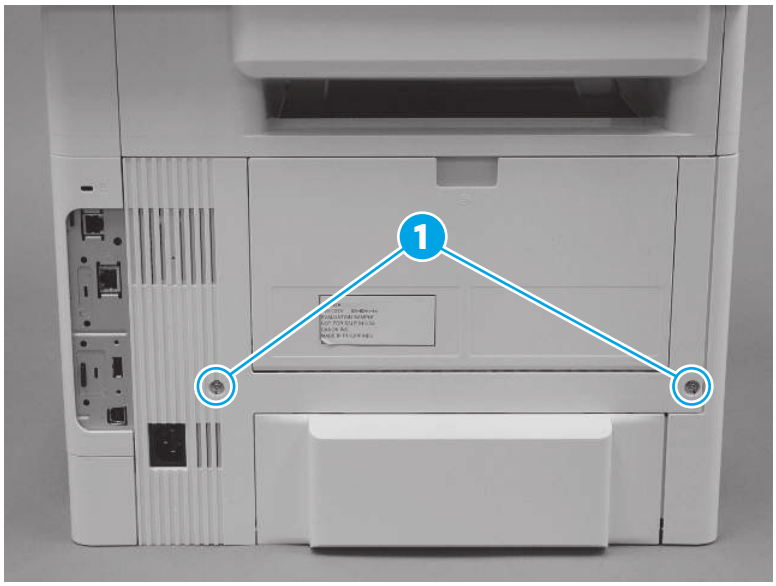
Make sure that the printer initializes to a **Ready** state.

Print a configuration page to make sure that the printer is functioning correctly.

1. Remove the rear door assembly.

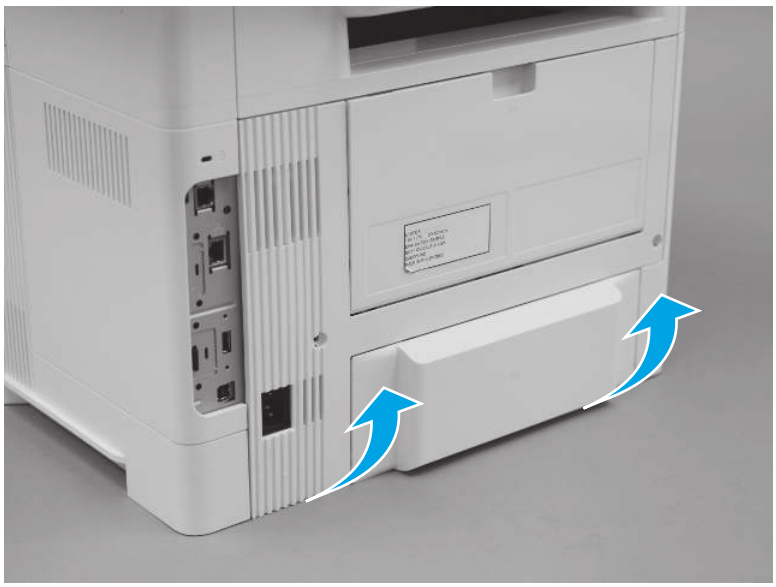
a. At the rear of the printer, remove two screws (callout 1).

Figure 1-501 Remove two screws



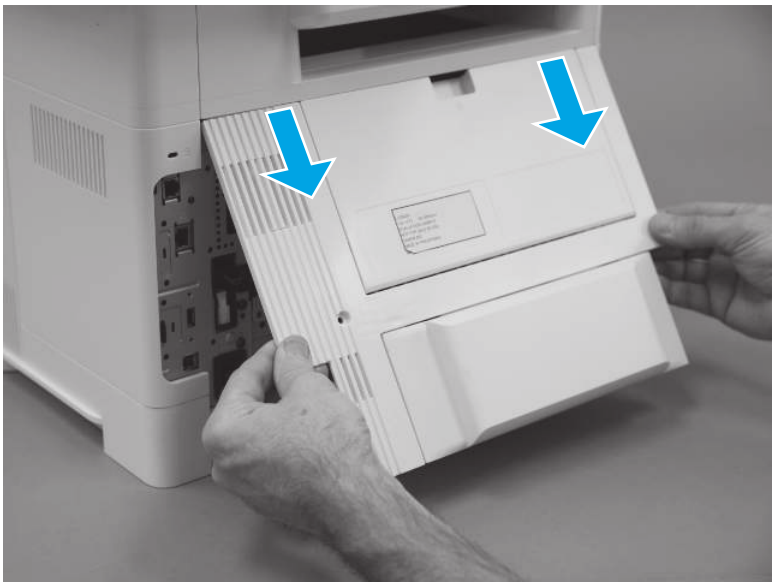
b. Rotate the bottom edge of the assembly away from the printer to release it.

Figure 1-502 Rotate the bottom of the cover



c. Pull down on the assembly to remove it.

Figure 1-503 Remove the cover



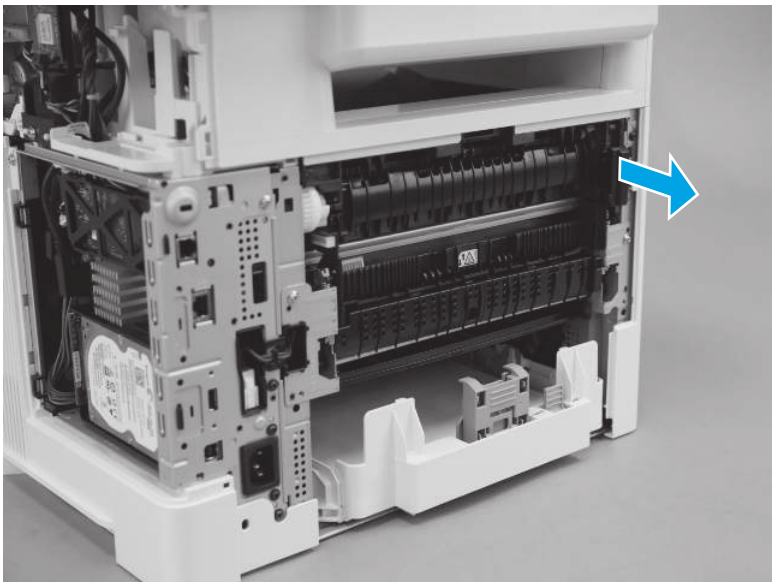
2. Remove the fuser.

NOTE: An MFP printer is shown in this section. However, the procedure is correct for all printer models.

The formatter cover is shown off in the following figures. However, it does not need to be removed to remove the fuser.

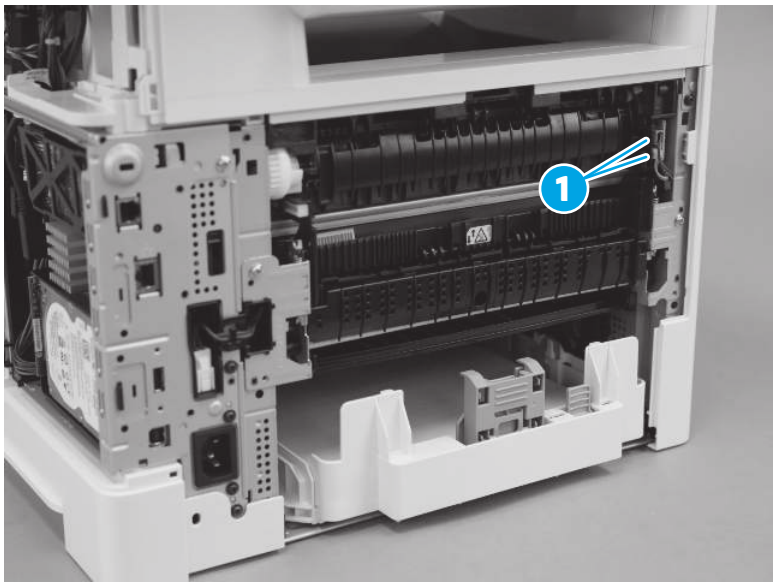
a. Remove the connector cover.

Figure 1-504 Remove the cover



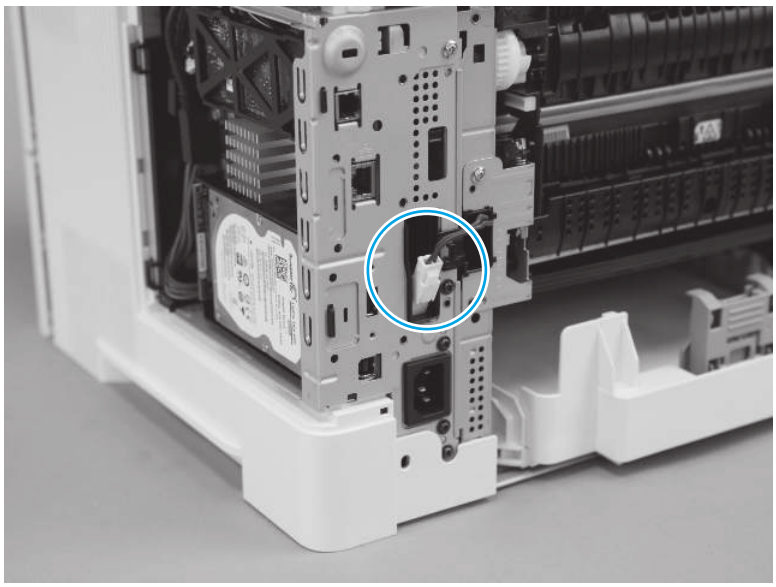
b. Disconnect two connectors (callout 1).

Figure 1-505 Disconnect two connectors



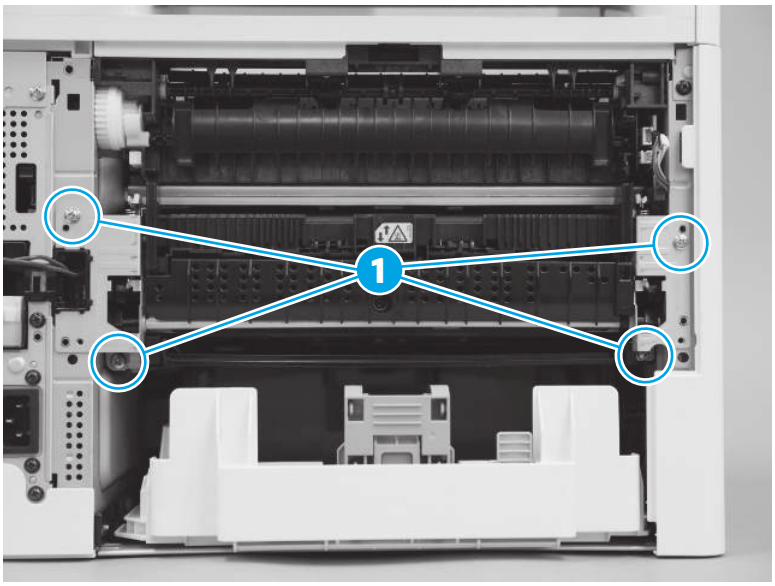
c. Disconnect one connector.

Figure 1-506 Disconnect one connector



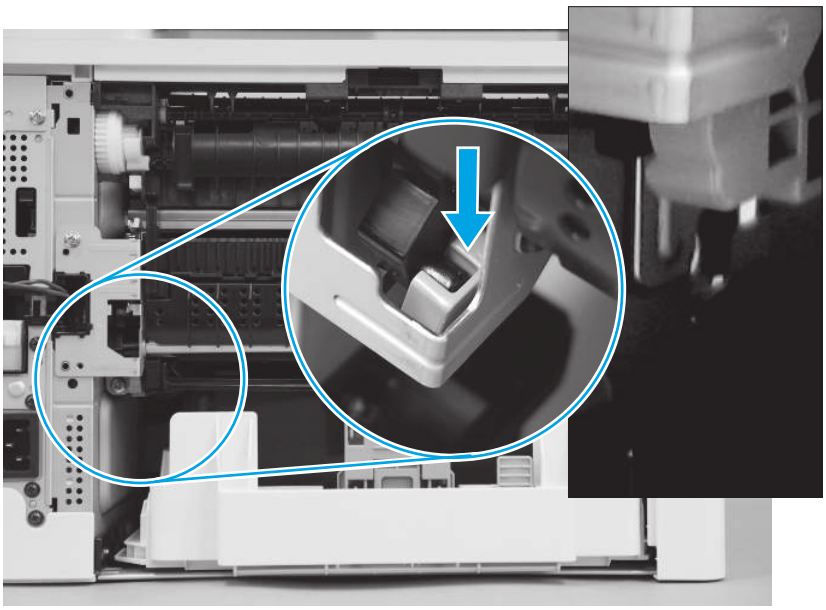
d. Remove four screws (callout 1).

Figure 1-507 Remove four screws



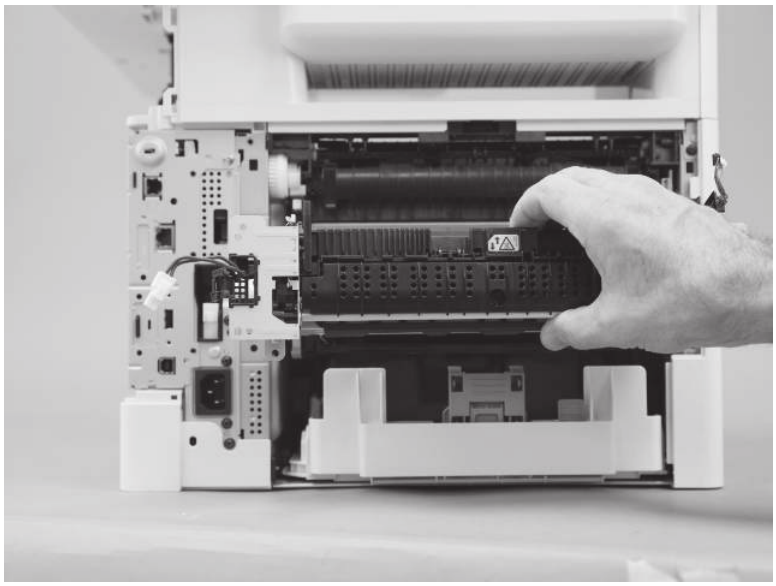
e. Pull down on the fuser-shutter arm to release it from the fuser.

Figure 1-508 Release the pressure-release arm



f. Slide the fuser straight out of the printer.

Figure 1-509 Remove the fuser



3. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Removal and replacement: Stapler unit (M527c/f/z, E52545c/z/f, M528c/f/z, and E52645c/f/z)

Learn how to remove and replace the cassette stapler unit.

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the stapler unit.

Mean time to repair: 5 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

> ⚠ **WARNING!** To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-33 Part information

Part number	Part description
B5L46-60102	Stapler unit (M527c/f/z, E52545c/f/z, M528c/f/z, and E52645c/f/z)

Required tools

- Small flat-blade screwdriver
- #2 Phillips screwdriver with a magnetic tip and a 152 mm (6 in) shaft length

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

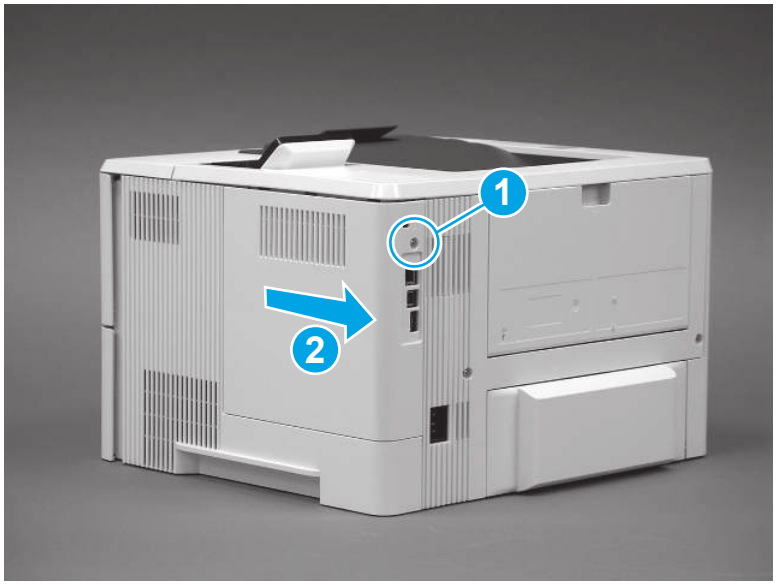
Use the convenience stapler to staple two pages together to test its operation.

1. Remove the formatter cover.

   ▲ Do one of the following:

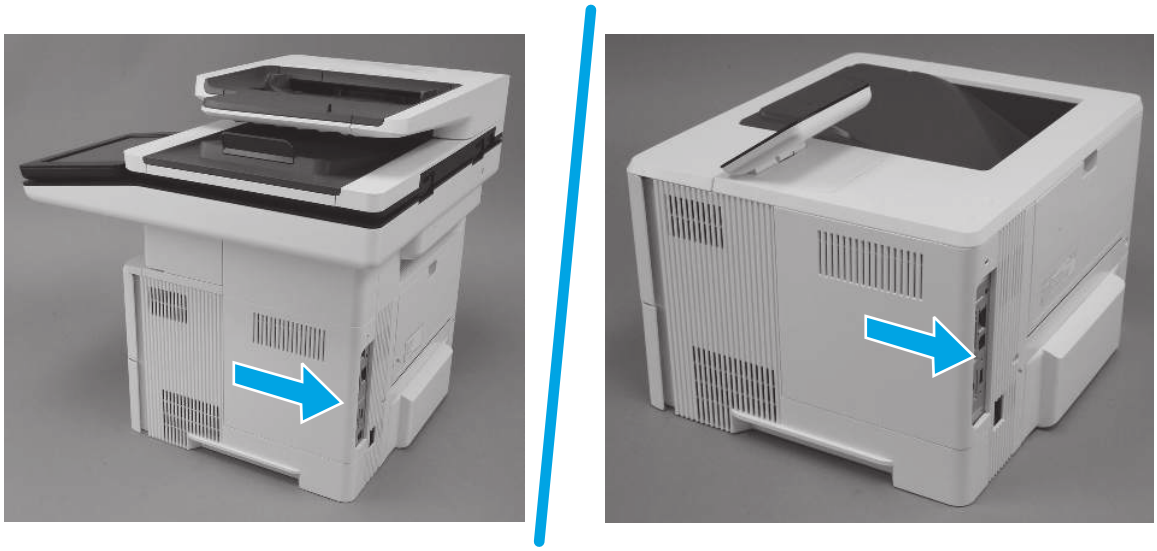
   - M501: Remove one screw (callout 1), and then slide the cover toward the rear of the printer to remove it (callout 2).

Figure 1-510 Remove the formatter cover (M501)



- M506/E50045/M507/E50145/M527/E52545/M528/E52645: Slide the cover toward the rear of the printer to remove it.

Figure 1-511 Remove the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)

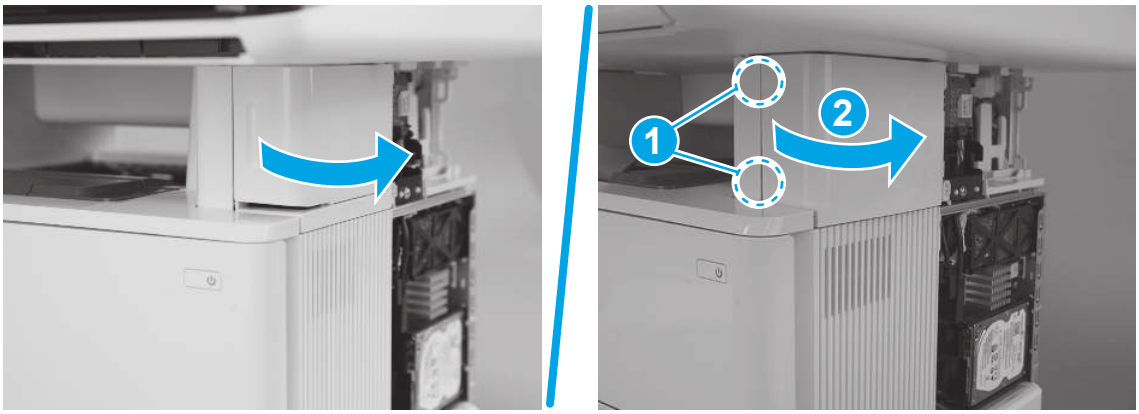


2. Remove the stapler door or stapler blank cover (M527/E52545/M528/E52645).

   a. Do one of the following:

      - Stapler models: Open the stapler door.
      - Non-stapler models: Use a small flat-blade screw driver to release two tabs (callout 1), and then rotate the cover away from the printer (callout 2).

Figure 1-512 Open the door or release the cover



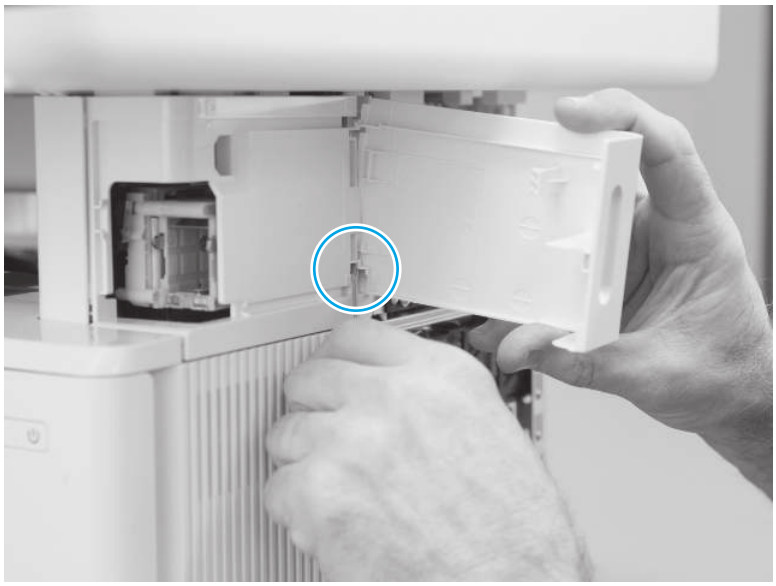
b. Do one of the following:

- **Stapler models**: Use a small flat-blade screwdriver to release the upper hinge.
- **Non-stapler models**: Slide the cover toward the front of the printer to remove it.

Figure 1-513 Release the upper hinge or remove the cover

c. **Stapler models**: Use a small flat-blade screwdriver to release the lower hinge.

Figure 1-514 Release the lower hinge



d. **Stapler models**: Remove the door.

Figure 1-515 Remove the door

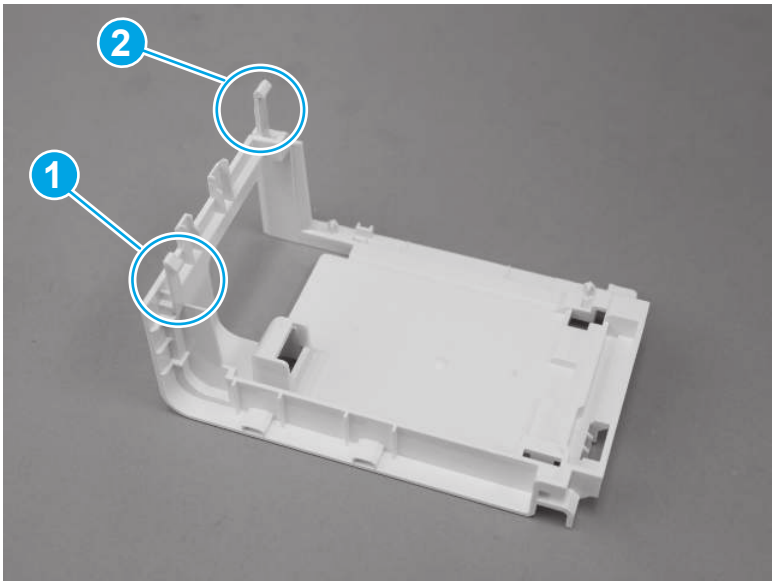
3. Remove the stapler stationary (inner) cover (M527/E52545/M528/E52645).

NOTE: Stapler models only.

a. Before proceeding, take note of the locations of the upper tab (callout 1) and the lower tab (callout 2) on the stapler stationary (inner) cover.

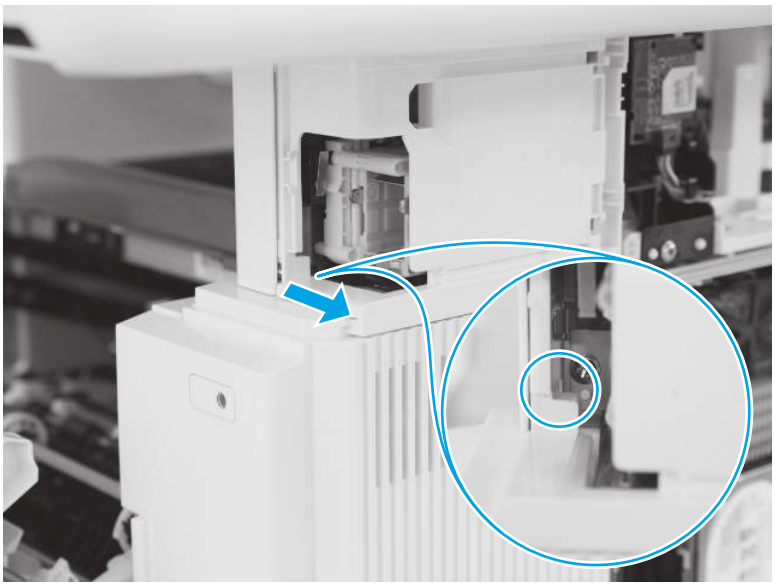
Reinstallation tip: When reinstalling the cover, take note of the location of the tabs.

Figure 1-516 Locate the tabs



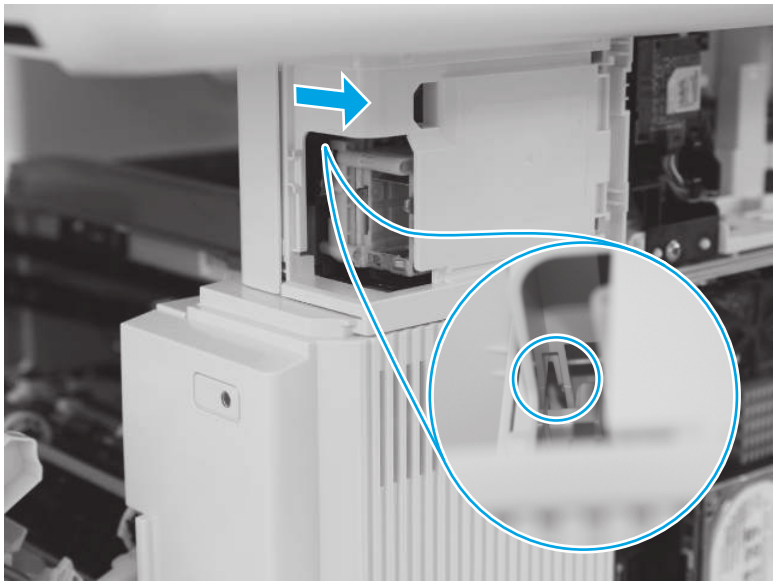
b. Use a long-shaft small flat-blade screwdriver to release the lower tab.

Figure 1-517 Release one tab



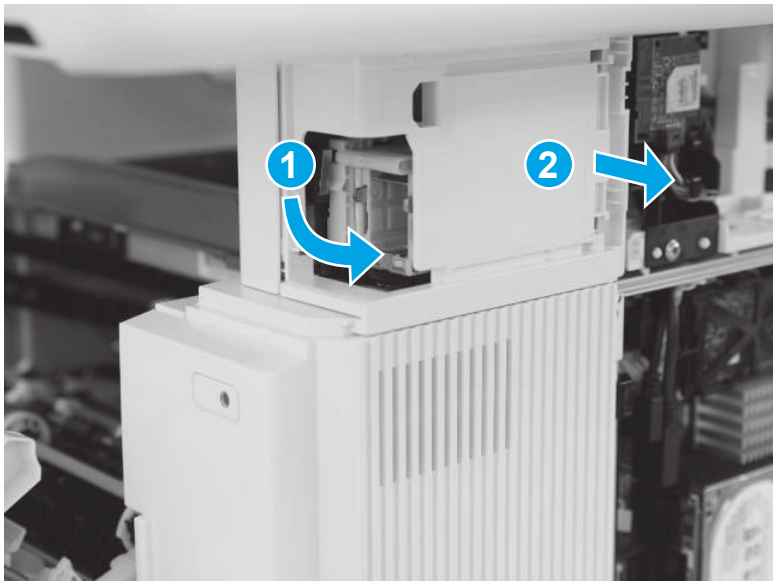
c. Use a long-shaft small flat-blade screwdriver to release the upper tab.

Figure 1-518 Release one tab



d. With the tabs disengaged the front of the cover is released. Rotate the front of the cover away from the printer (callout 1) to release the rear of the cover (callout 2), and then remove it.

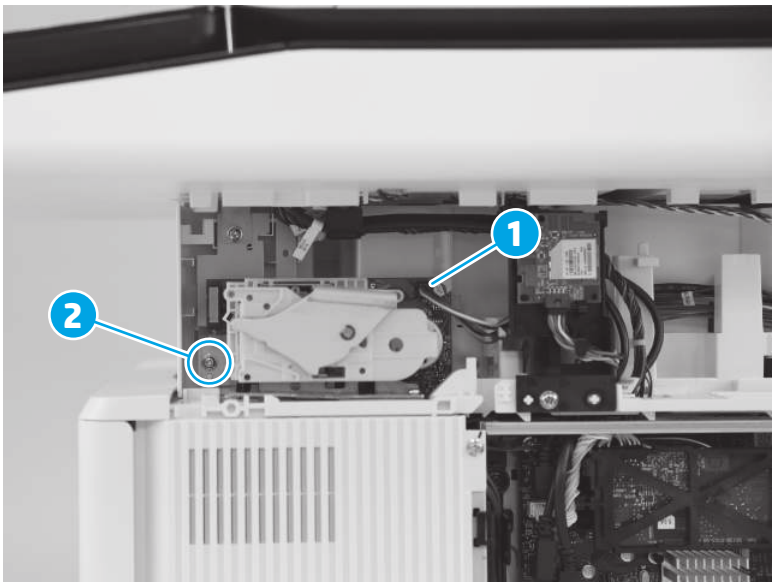
Figure 1-519 Remove the cover



4. Remove the stapler unit (M527/E52545/M528/E52645).

a. Disconnect one connector (callout 1), and then remove one screw (callout 2).

Figure 1-520 Disconnect one connector and remove one screw



b. Remove the stapler unit.

Figure 1-521 Remove the stapler unit

5. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Removal and replacement: Formatter

Learn how to remove and replace the formatter.

NOTE: Never remove and then install a replacement DCC and formatter at the same time. Doing so will cause the printer to become unstable.

If a replacement DCC and formatter must be installed, first remove and install the formatter. Test operate the printer, and then if necessary install a replacement DCC.

To view a short video of this procedure, click the link below.

M501

View a video of how to remove and replace the formatter (M501).

M506/E50045

View a video of how to remove and replace the formatter (M506/E50045).

M507/E50145

View a video of how to remove and replace the formatter (M507/E50145).

M527/E52545/M528/E52645

View a video of how to remove and replace the formatter (M527/E52545/M528/E52645).

Mean time to repair: 10 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

WARNING! To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

IMPORTANT: Take note of all empty connectors on the PCA before disconnecting any wire harnesses or flat-flexible cables (FFCs). Some empty connectors might not be visible until other items—like the hard-disk drive—are removed, so pay close attention while removing the formatter and accessory items.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-34 Part information

Part number	Part description
F2A76-67910	Formatter (M527/E52545) with instruction guide
1PV64-60002	Formatter (M528/E52645) with instruction guide
1PV64-60003	Formatter (M528/E52645 China) with instruction guide
1PV87-60001	Formatter (M507/E50145) with instruction guide
1PV87-60002	Formatter (M507dn)
1PV87-60003	Formatter (M507n)
1PV86-60004	Formatter (M507x) China/India
1PV86-60007	Formatter (M507dn) China/India
1PV86-60008	Formatter (M507n) China/India
F2A68-67915	Formatter (M506n/E50045n) with instruction guide
F2A68-67916	Formatter (M506x/E50045x) with instruction guide
J8H60-67901	Formatter (M501n)
J8H60-67902	Formatter (M501n; China)
J8H61-67901	Formatter (M501dn)
J8H61-67902	Formatter (M501dn; China)

Required tools

- #2 Phillips screwdriver with a magnetic tip and a 152 mm (6 in) shaft length

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

Make sure that the printer initializes to a **Ready** state.

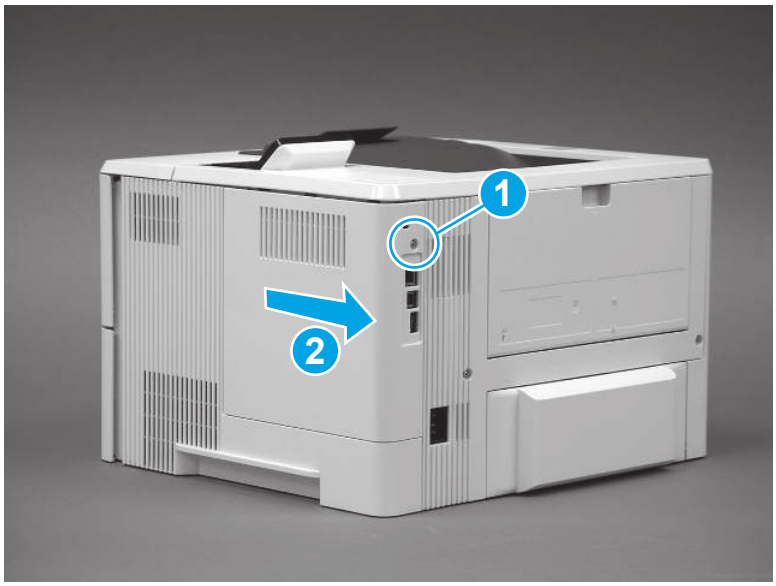
Print a configuration page to make sure that the printer is functioning correctly.

1. Remove the formatter cover.

   ▲ Do one of the following:

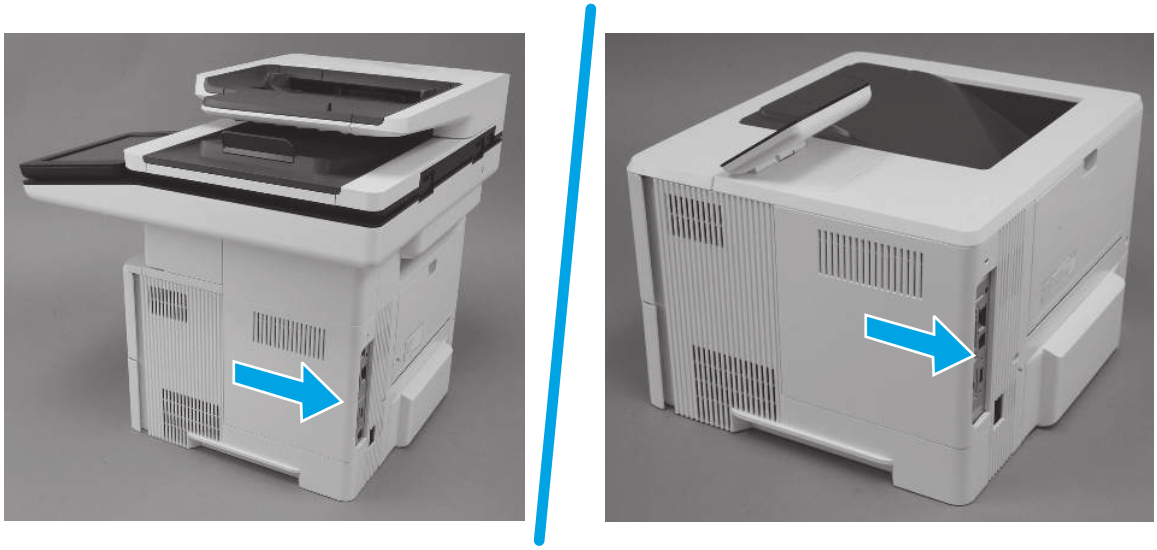
   - M501: Remove one screw (callout 1), and then slide the cover toward the rear of the printer to remove it (callout 2).

     Figure 1-522 Remove the formatter cover (M501)

   - M506/E50045/M507/E50145/M527/E52545/M528/E52645: Slide the cover toward the rear of the printer to remove it.

     Figure 1-523 Remove the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)

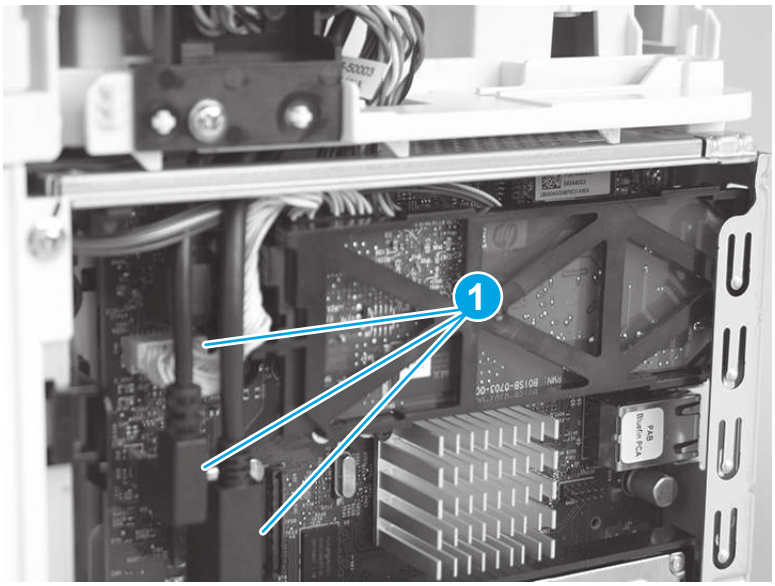
     

2. Remove the fax PCA (M527/E52545/M528/E52645 fax models).

⚠ **CAUTION:** ESD-sensitive part.

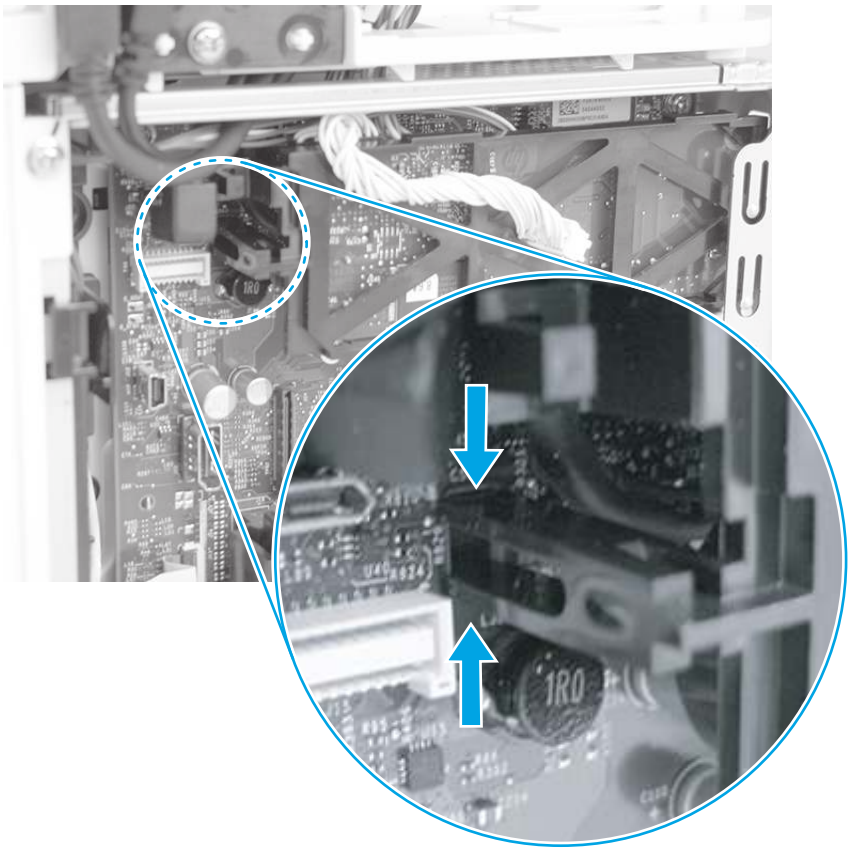
a. Disconnect three connectors (callout 1).

Figure 1-524 Disconnect three connectors



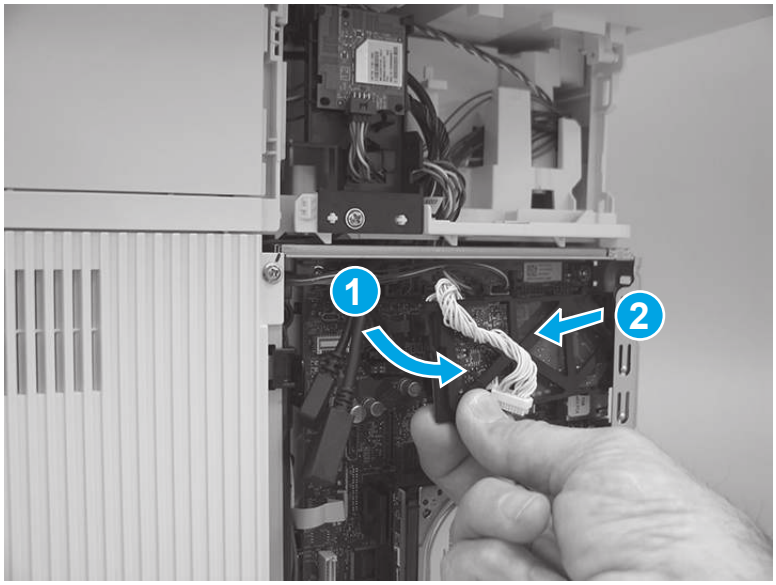
b. Pinch the retainer to release it.

Figure 1-525 Release the fax PCA



c. Rotate the connector end of the fax PCA out and away from the formatter (callout 1), and then slide it as shown (callout 2) to remove it.

Figure 1-526 Remove the fax PCA

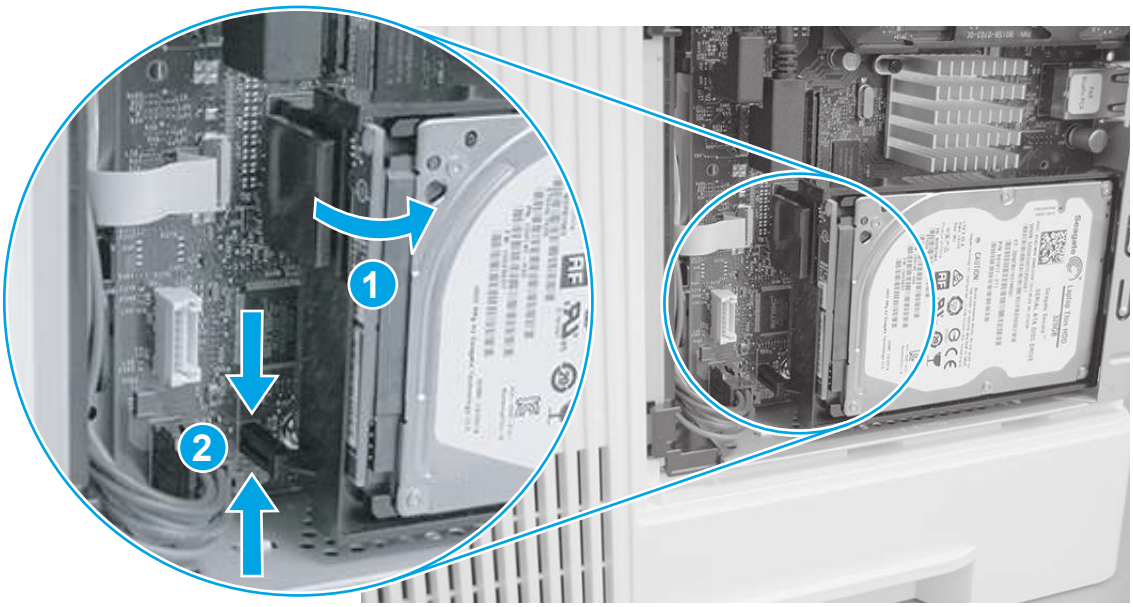


3. Remove the hard-disk drive (HDD models).

⚠ CAUTION: ESD sensitive part.

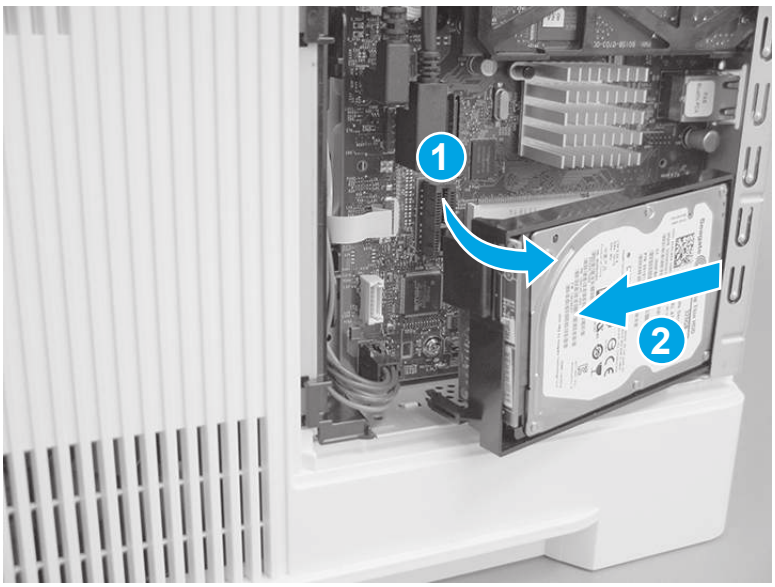
a. Release the locking connector (callout 1), and then pinch the retainer (callout 2) to release it.

Figure 1-527 Release the HDD



b. Rotate the connector end of the HDD out and away from the formatter (callout 1), and then slide it as shown (callout 2) to remove it.

Figure 1-528 Remove the HDD

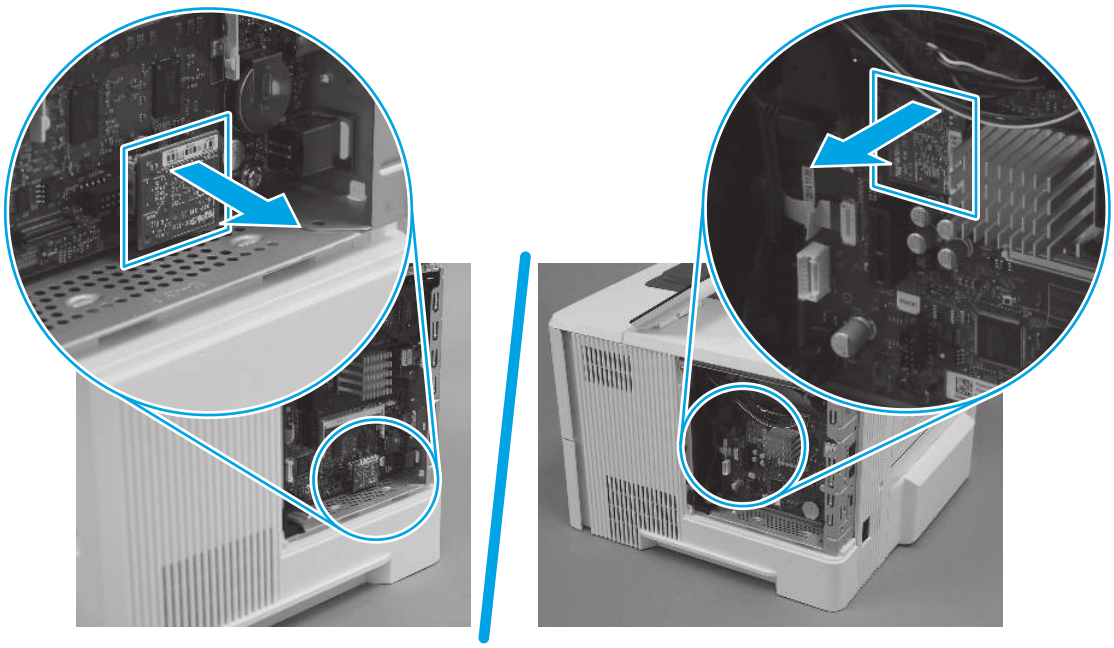


4. Remove the embedded Multi-Media Card (eMMC models).

⚠ CAUTION: ESD sensitive part.

▲ Locate the eMMC component on the formatter, and then pull it straight off of the formatter to remove it.

Figure 1-529 Remove the eMMC



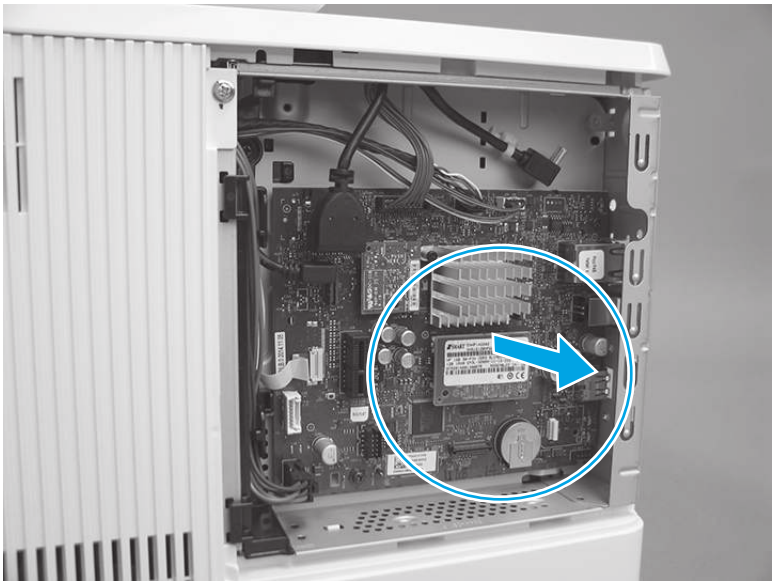
5. Remove the dual in-line memory module (DIMM).

CAUTION: ESD sensitive part.

NOTE: The M506/E50045/M507/E50145 printers use a Slim dual in-line memory module (DIMM).

a. M506/E50045/M507/E50145 only: Locate the DIMM component on the formatter, and then pull it straight off of the formatter to remove it.

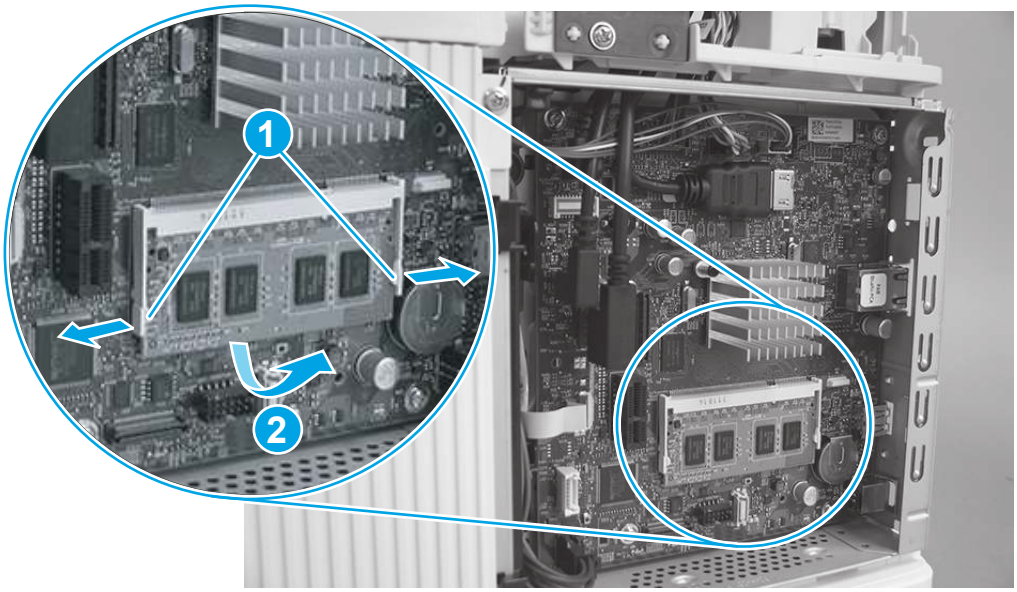
Figure 1-530 Remove the DIMM (M506/E50045/M507/E50145)



b. **M527/E52545/M528/E52645 only**: Do the following.

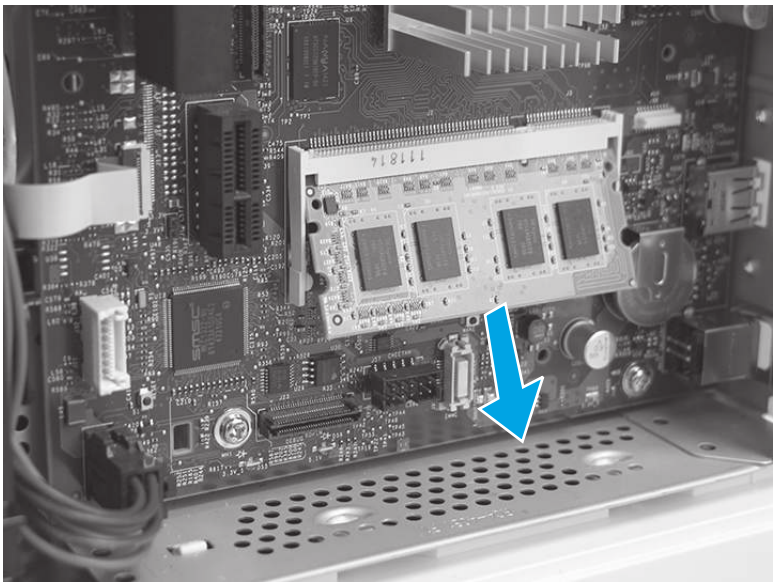
i. Locate the DIMM component on the formatter, release two locking arms (callout 1), and then let the bottom edge of the DIMM rotate away from the holder (callout 2).

Figure 1-531 Release the DIMM (M527/E52545/M528/E52645)



ii. Pull the DIMM down and away from the holder to remove it.

Figure 1-532 Remove the DIMM (M527/E52545/M528/E52645)



6. Remove the formatter.

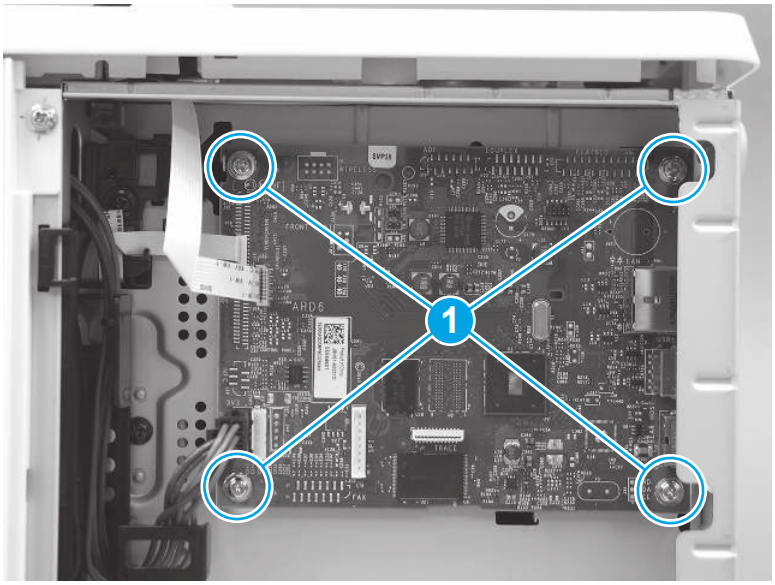
⚠ **CAUTION:** Never remove and then install a replacement DCC and formatter at the same time. Doing so will cause the printer to become unstable.

If a replacement DCC and formatter must be installed, first remove and install the formatter. Test operate the printer, and then if necessary install a replacement DCC.

IMPORTANT: Take note of all empty connectors on the PCA before disconnecting any wire harnesses or flat-flexible cables (FFCs). Some empty connectors might not be visible until other items—like the hard-disk drive—are removed, so pay close attention while removing the formatter and accessory items.

a. M501: Disconnect all of the connectors and FFCs, remove four screws (callout 1), and then remove the formatter.

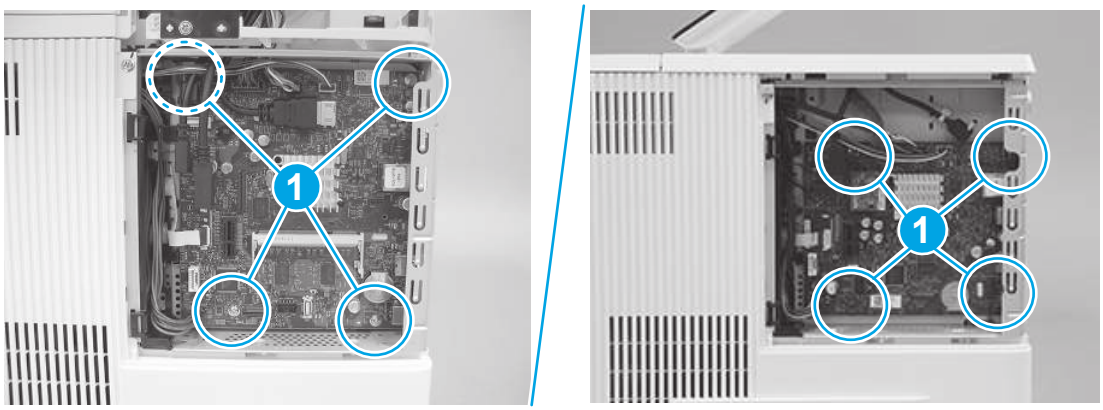
Figure 1-533 Remove the formatter (M501)



b. M506/E50045/M507/E50145/M527/E52545/M528/E52645: Disconnect all of the connectors and FFCs, remove four screws (callout 1), and then remove the formatter.

IMPORTANT: Take note of all empty connectors on the formatter before disconnecting any wire harnesses or flat-flexible cables (FFCs). Some empty connectors might not be visible until other items —like the hard-disk drive—are removed, so pay close attention while removing the formatter and accessories items.

Figure 1-534 Remove the formatter (M506/E50045/M507/E50145/M527/E52545/M528/E52645)



7. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Removal and replacement: Laser/scanner assembly

Learn how to remove and replace the laser/scanner assembly.

To view a short video of this procedure, click the link below.

M501

View a video of how to remove and replace the laser/scanner (M501).

M506/E50045

View a video of how to remove and replace the laser/scanner (M506/E50045).

M507/E50145

View a video of how to remove and replace the laser/scanner (M507/E50145).

M527/E52545/M528/E52645

View a video of how to remove and replace the laser/scanner (M527/E52545/M528/E52645).

Mean time to repair: 12 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

WARNING! To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-35 Part information

Part number	Part description
RM2-5528-000CN	Laser/scanner assembly

Required tools

- #2 Phillips screwdriver with a magnetic tip and a 152 mm (6 in) shaft length

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

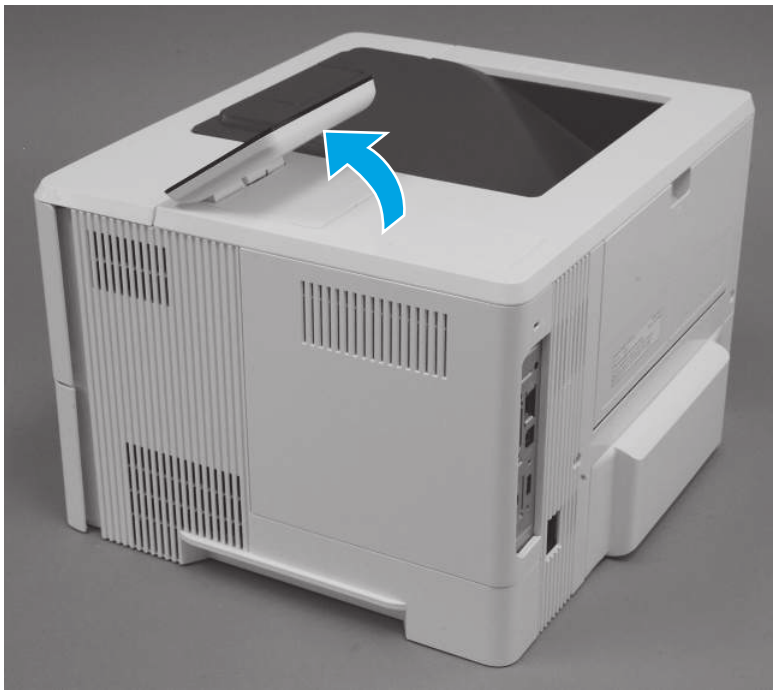
Post service test

Make sure that the printer initializes to a **Ready** state.

Print a configuration page to make sure that the printer is functioning correctly.

1. Remove the control panel (M506x/E50045x/M507x/E50145x).
   a. Tilt the control panel to the fully raised position.

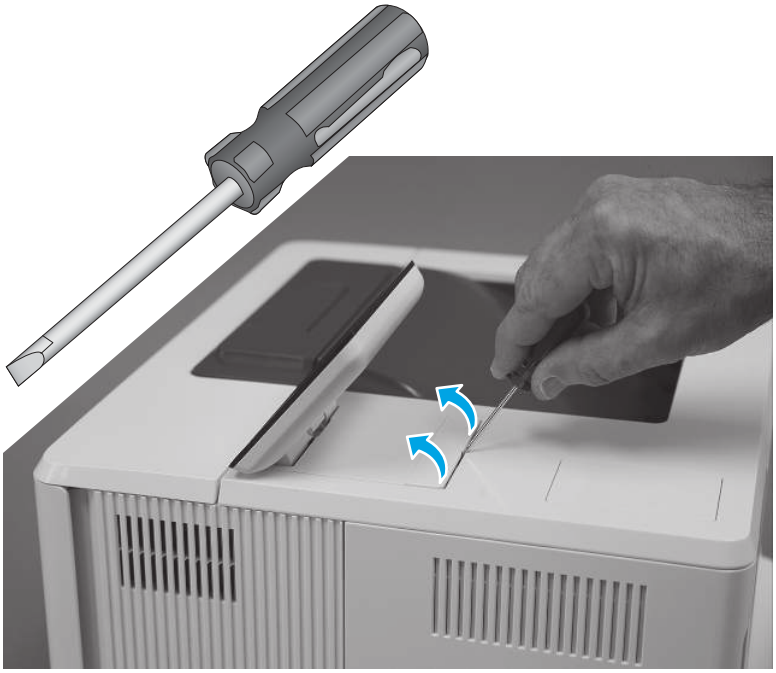
Figure 1-535 Tilt the control panel up



b. Use the small flat-blade screwdriver supplied in the kit to release the control-panel screws cover, and then remove the cover.

TIP: The screwdriver has a reversible shaft. Simply pull the shaft out of the handle, and then reinstall it with the desired end facing out.

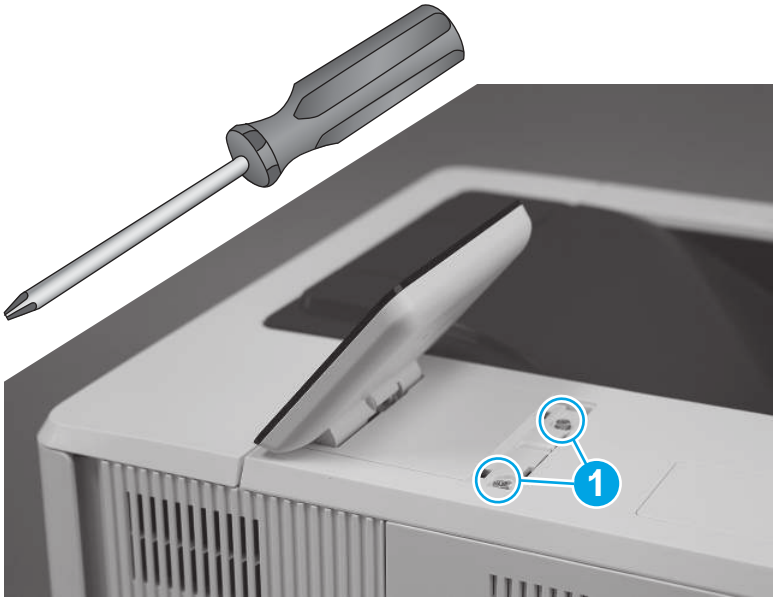
Figure 1-536 Remove the cover



c. Use the small Phillips screwdriver supplied in the kit to remove two screws (callout 1).

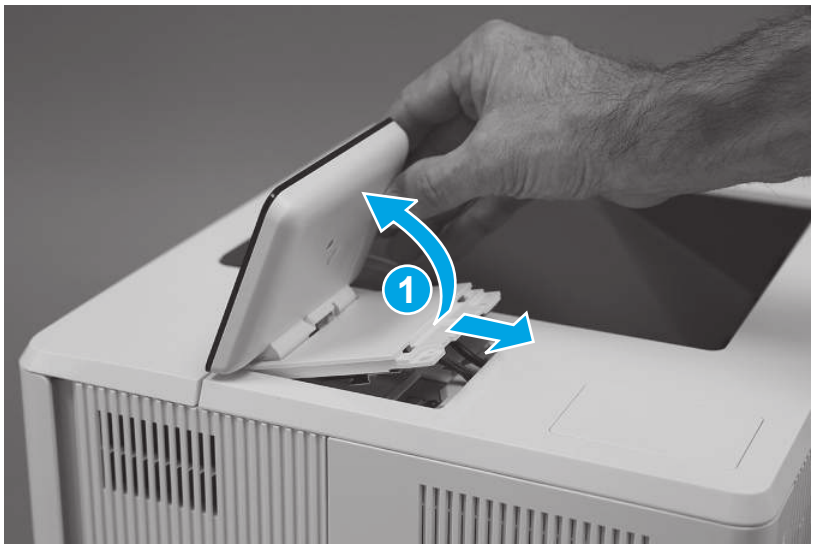
IMPORTANT: Store the screws in a secure place where they cannot fall down into the printer.

Figure 1-537 Remove two screws



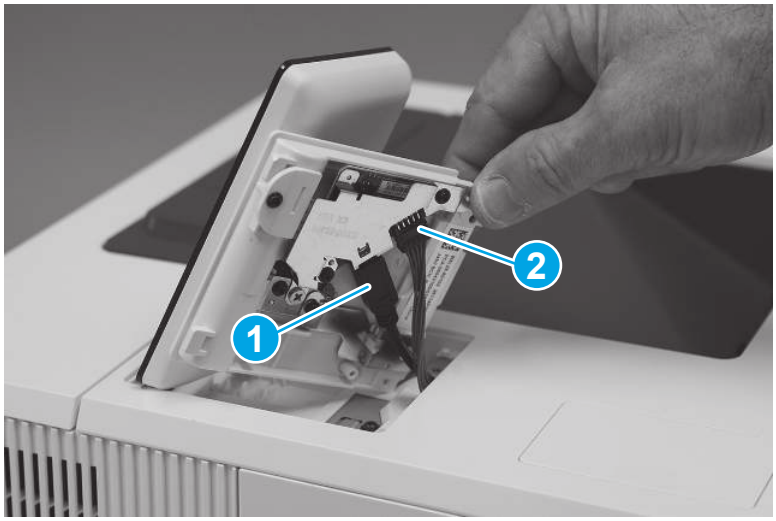
d. Turn the control panel over (callout 1), to gain access to the bottom side.

Figure 1-538 Turn the control panel over



e. **M506/E50045 only**: Disconnect one HDMI cable (callout 1), one connector (callout 2), and then remove the control panel.

Figure 1-539 Remove the control panel (M506/E50045)



f. **M507/E50154 only**: If the formatter cover has not been removed, remove it now. Disconnect one flat-flexible cable (FFC).

CAUTION: ESD sensitive part.

NOTE: This connector is a zero-insertion force (ZIF) connector. Open the locking clip. The clip is easily dislodged and lost.

Figure 1-540 Disconnect one FFC (M507/E50145)

g. **M507/E50145 only**: Pass the FFC through the opening in the cover, and then remove the control panel.

⚠ **CAUTION:** ESD sensitive part.

Figure 1-541 Remove the control panel (M507/E50145)

2. Remove the tray.

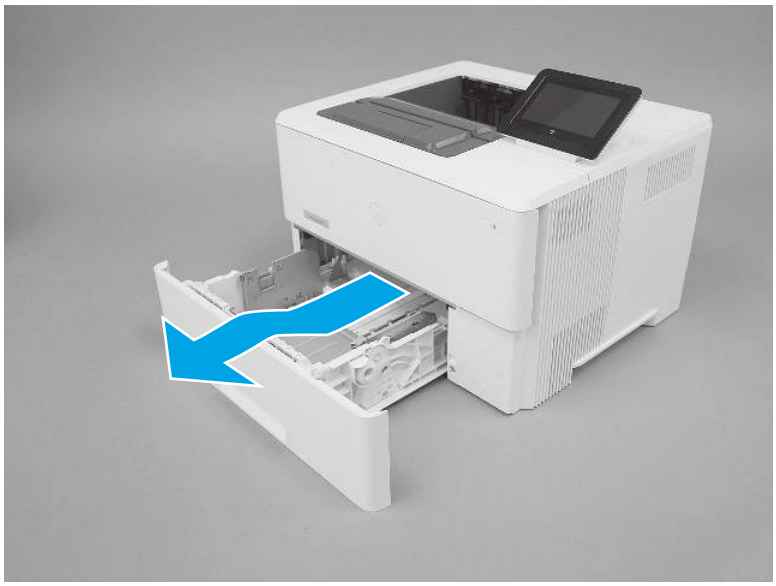
a. Pull the tray straight out of the printer until it stops.

Figure 1-542 Pull the tray out until it stops

b. Lift the front of the tray, and then pull it out of the printer to remove it.

NOTE: If the tray has Fixed Tray Guides installed and are still required, move the hardware to new tray. If necessary, order new kit: 3GY19-67901 Kit-Fixed Tray Guide. Only one kit required per engine.

Figure 1-543 Release and remove the tray

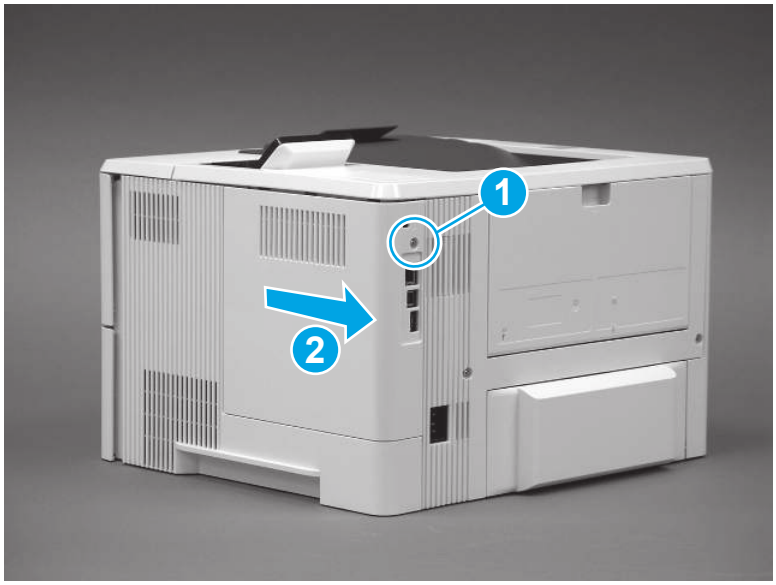


3. Remove the formatter cover.

▲ Do one of the following:

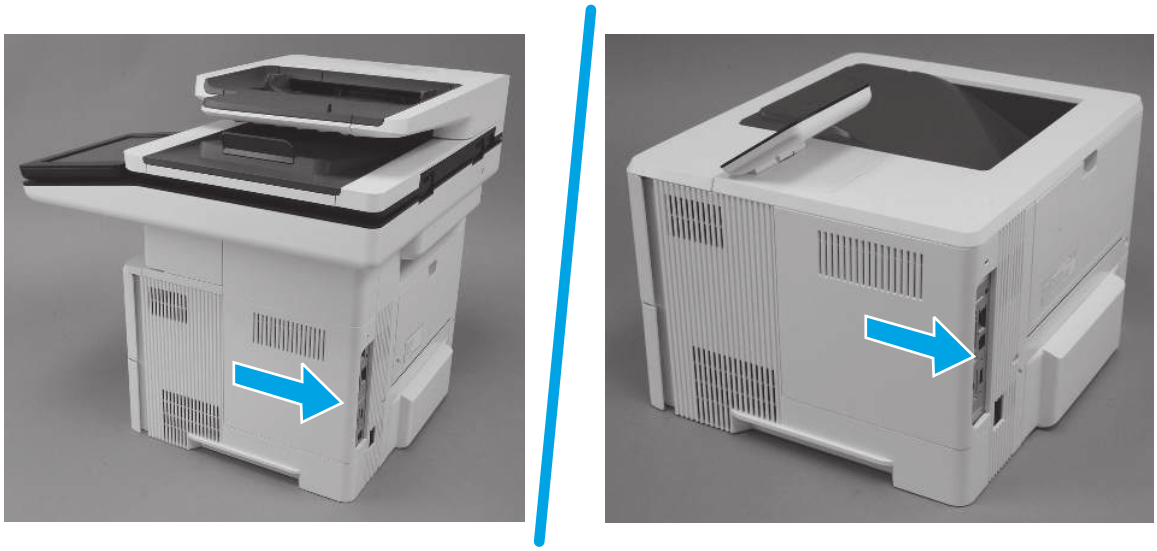
- M501: Remove one screw (callout 1), and then slide the cover toward the rear of the printer to remove it (callout 2).

Figure 1-544 Remove the formatter cover (M501)



- M506/E50045/M507/E50145/M527/E52545/M528/E52645: Slide the cover toward the rear of the printer to remove it.

Figure 1-545 Remove the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)

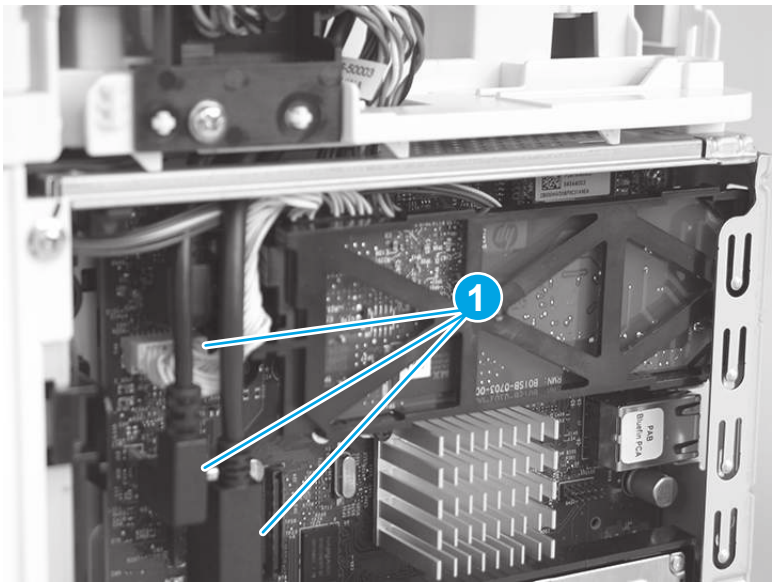


4. Remove the fax PCA (M527/E52545/M528/E52645 fax models).

CAUTION: ESD-sensitive part.

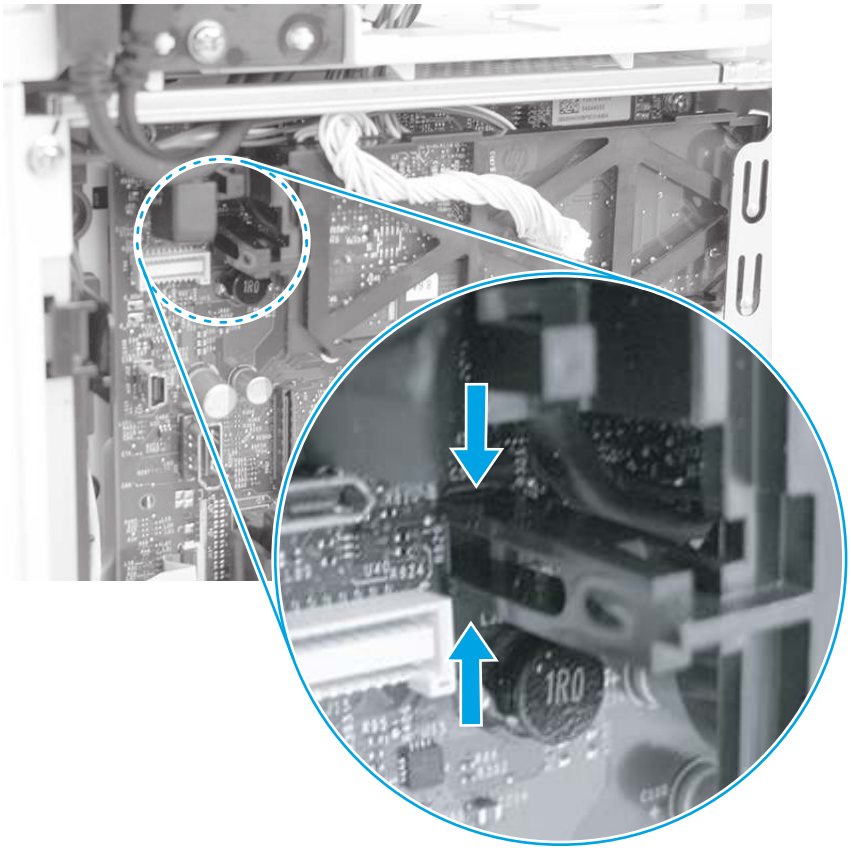
a. Disconnect three connectors (callout 1).

Figure 1-546 Disconnect three connectors



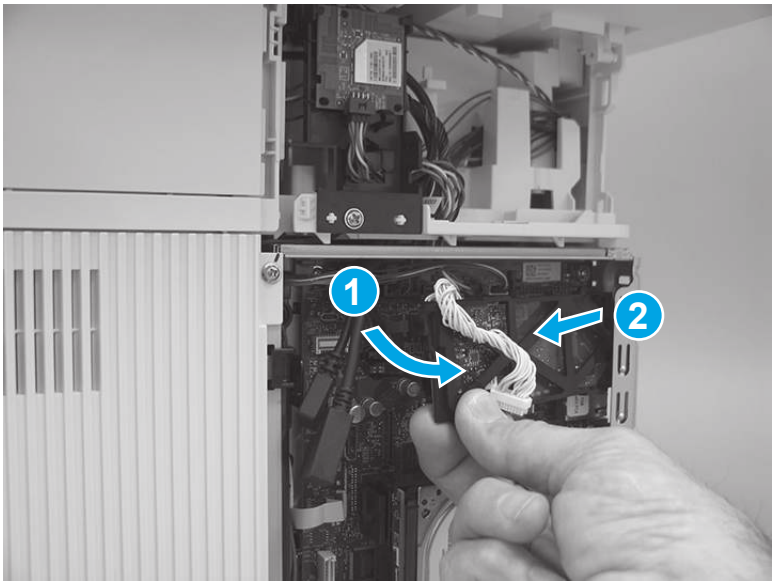
b. Pinch the retainer to release it.

Figure 1-547 Release the fax PCA



c. Rotate the connector end of the fax PCA out and away from the formatter (callout 1), and then slide it as shown (callout 2) to remove it.

Figure 1-548 Remove the fax PCA

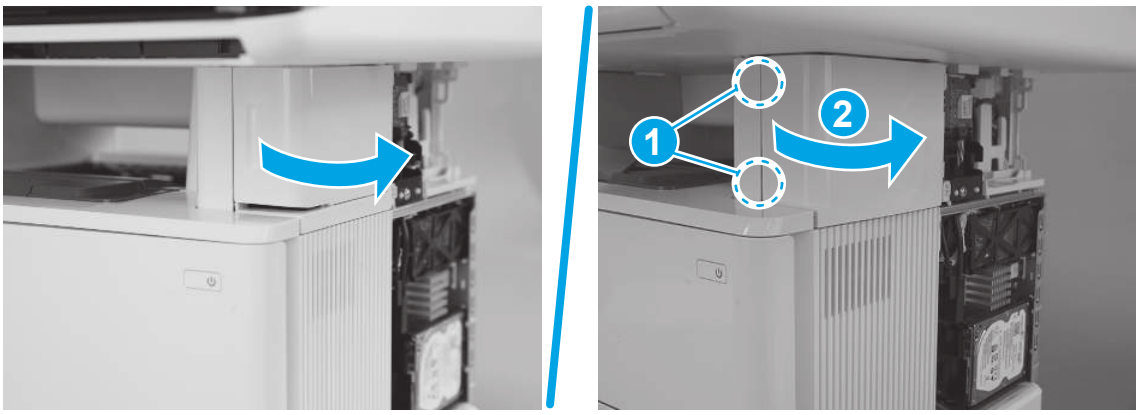


5. Remove the stapler door or stapler blank cover (M527/E52545/M528/E52645).

a. Do one of the following:

- **Stapler models**: Open the stapler door.
- **Non-stapler models**: Use a small flat-blade screw driver to release two tabs (callout 1), and then rotate the cover away from the printer (callout 2).

Figure 1-549 Open the door or release the cover



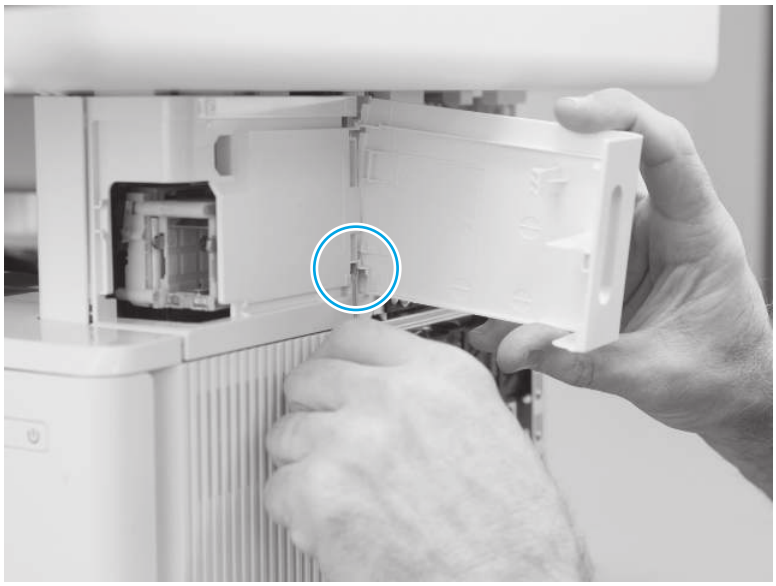
b. Do one of the following:

- **Stapler models**: Use a small flat-blade screwdriver to release the upper hinge.
- **Non-stapler models**: Slide the cover toward the front of the printer to remove it.

Figure 1-550 Release the upper hinge or remove the cover

c. **Stapler models**: Use a small flat-blade screwdriver to release the lower hinge.

Figure 1-551 Release the lower hinge



d. **Stapler models**: Remove the door.

Figure 1-552 Remove the door

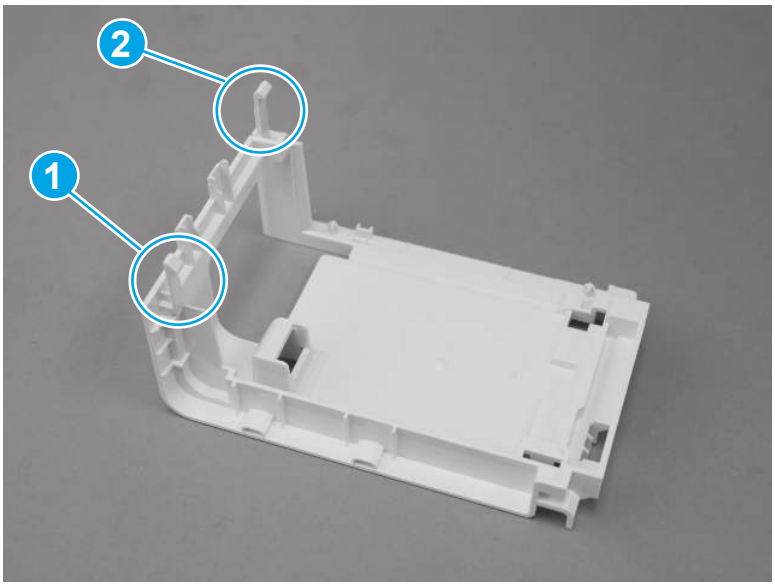
6. Remove the stapler stationary (inner) cover (M527/E52545/M528/E52645).

NOTE: Stapler models only.

a. Before proceeding, take note of the locations of the upper tab (callout 1) and the lower tab (callout 2) on the stapler stationary (inner) cover.

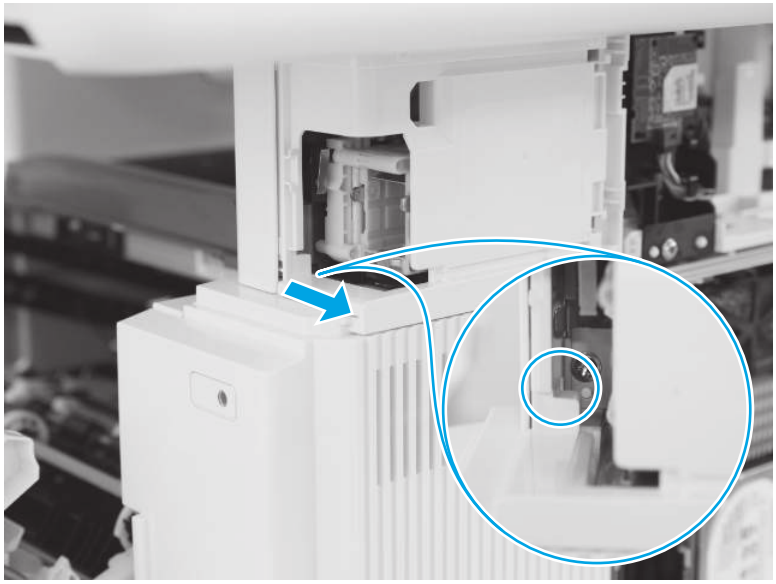
Reinstallation tip: When reinstalling the cover, take note of the location of the tabs.

Figure 1-553 Locate the tabs



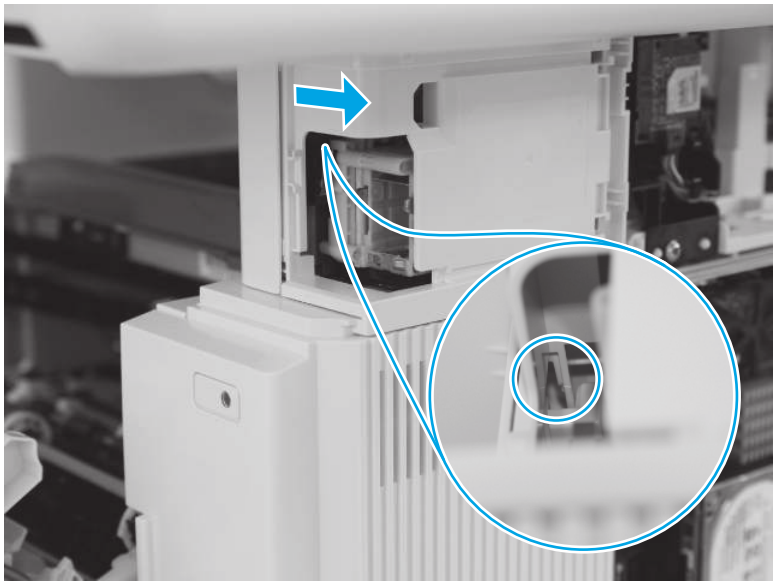
b. Use a long-shaft small flat-blade screwdriver to release the lower tab.

Figure 1-554 Release one tab



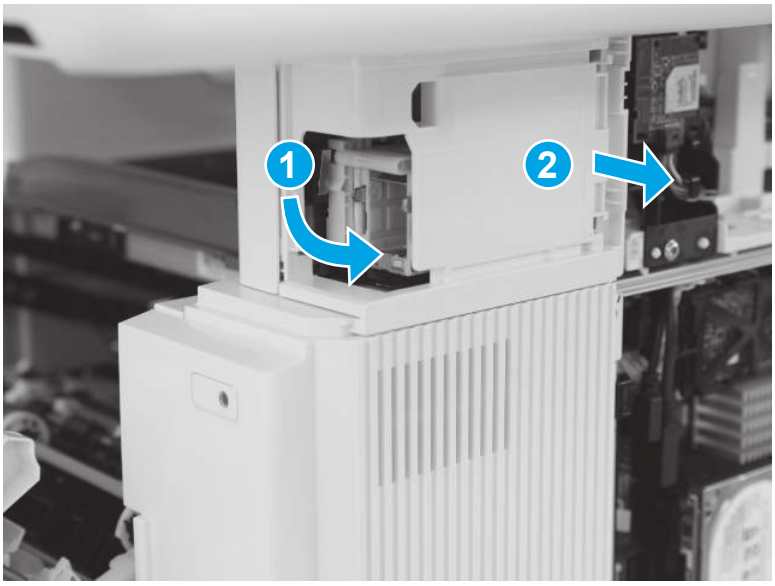
c. Use a long-shaft small flat-blade screwdriver to release the upper tab.

Figure 1-555 Release one tab



d. With the tabs disengaged the front of the cover is released. Rotate the front of the cover away from the printer (callout 1) to release the rear of the cover (callout 2), and then remove it.

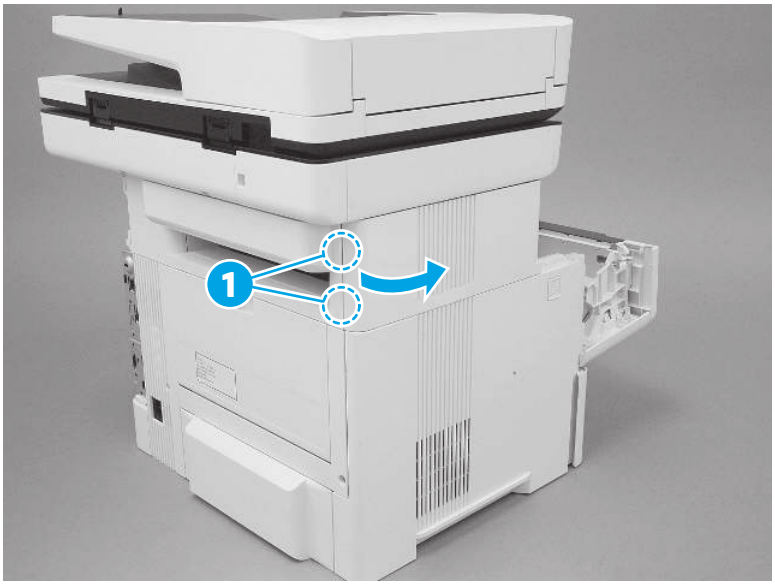
Figure 1-556 Remove the cover



7. Remove the top-left cover (M527/E52545M528/E52645).

a. Open the toner-cartridge door, release two tabs (callout 1), and then rotate the rear edge of the cover away from the printer.

Figure 1-557 Release two tabs



b. Continue to rotate the cover away from the printer to release two more tabs at the middle of the cover.

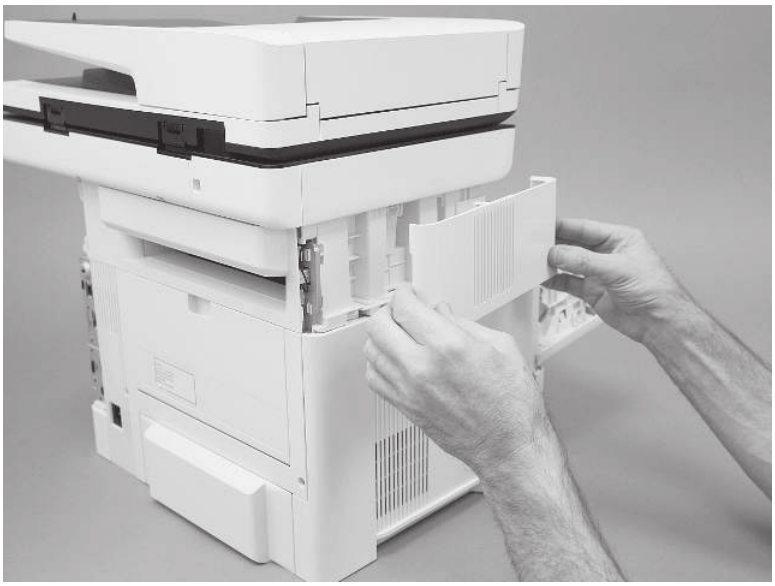
Figure 1-558 Release two tabs

c. Slide the cover toward the rear of the printer to release two bosses at the front of the cover.

Figure 1-559 Slide the cover

d. Remove the cover.

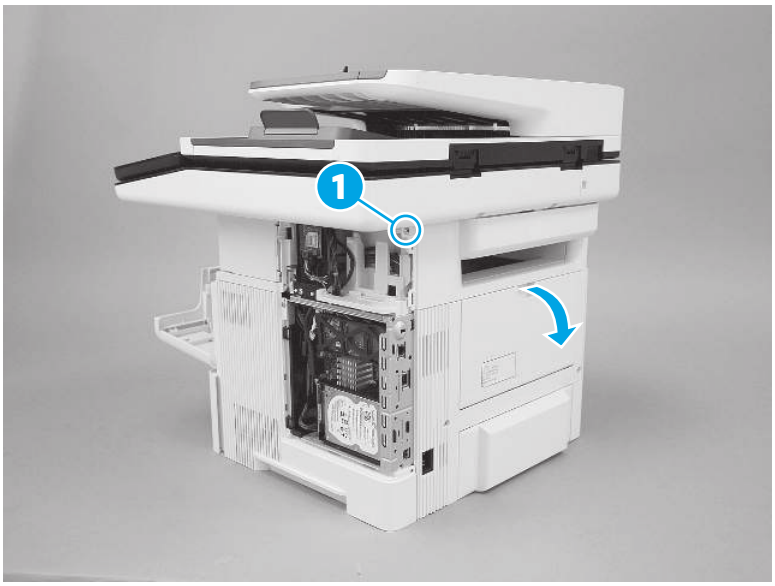
Figure 1-560 Remove the cover



8. Remove the top-rear cover (M527/E52545/M528/E52645).

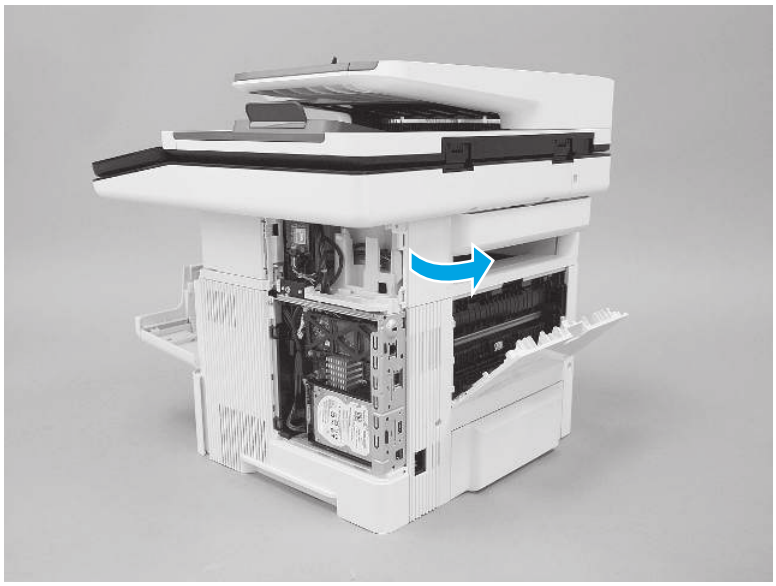
a. Remove one screw (callout 1), and then open the rear door.

Figure 1-561 Remove one screw



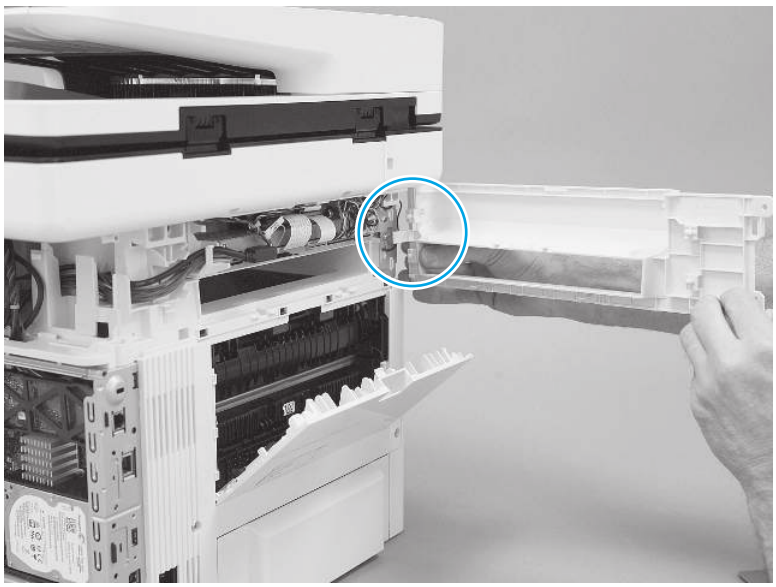
b. Rotate the exposed edge of the cover away from the printer (as shown).

Figure 1-562 Rotate the cover



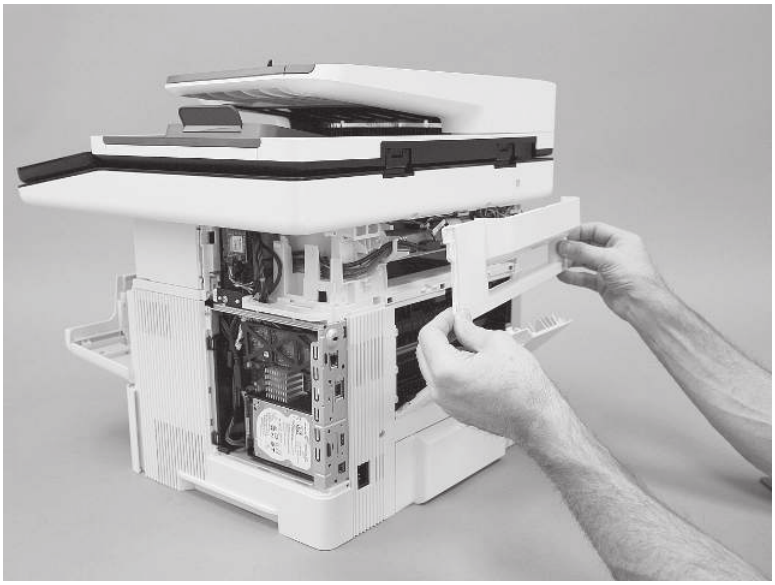
c. Continue to rotate the cover away from the printer to release one boss.

Figure 1-563 Release one boss



d. Remove the cover.

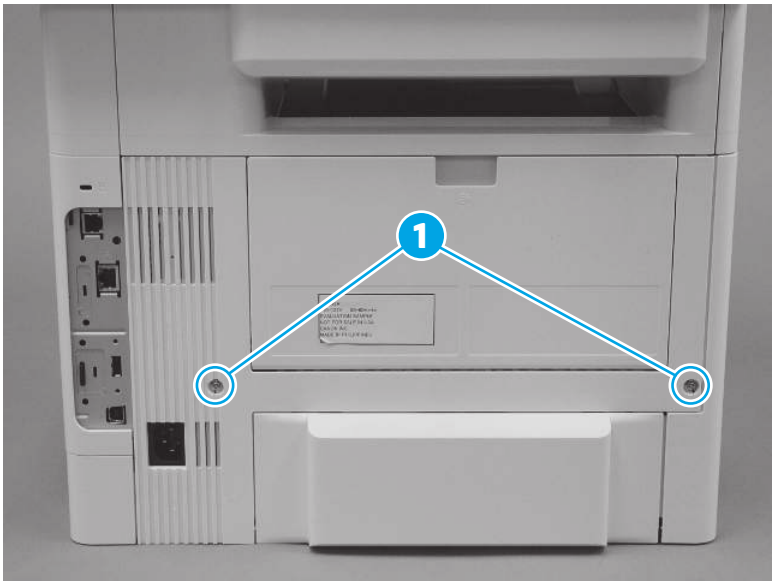
Figure 1-564 Remove the cover



9. Remove the rear door assembly.

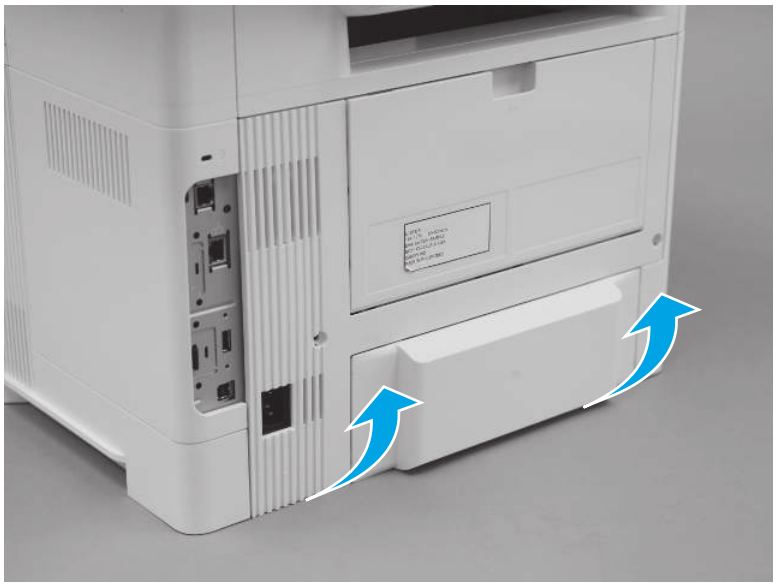
a. At the rear of the printer, remove two screws (callout 1).

Figure 1-565 Remove two screws



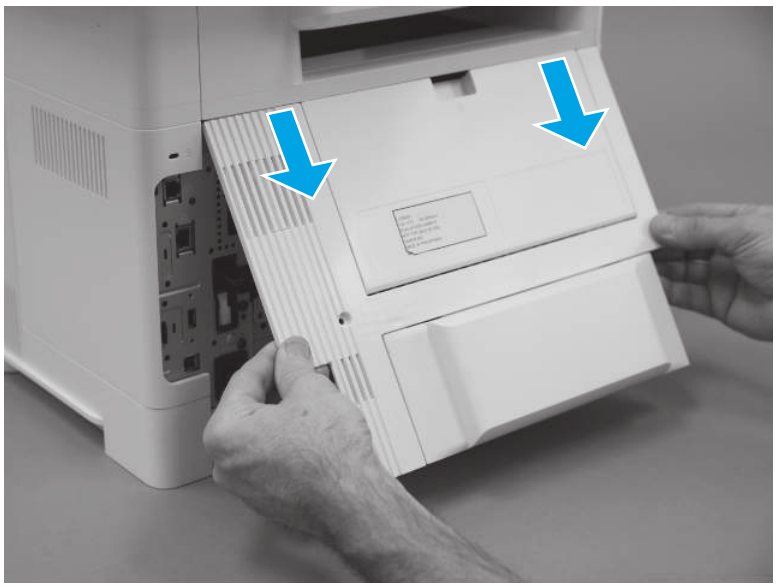
b. Rotate the bottom edge of the assembly away from the printer to release it.

Figure 1-566 Rotate the bottom of the cover



c. Pull down on the assembly to remove it.

Figure 1-567 Remove the cover



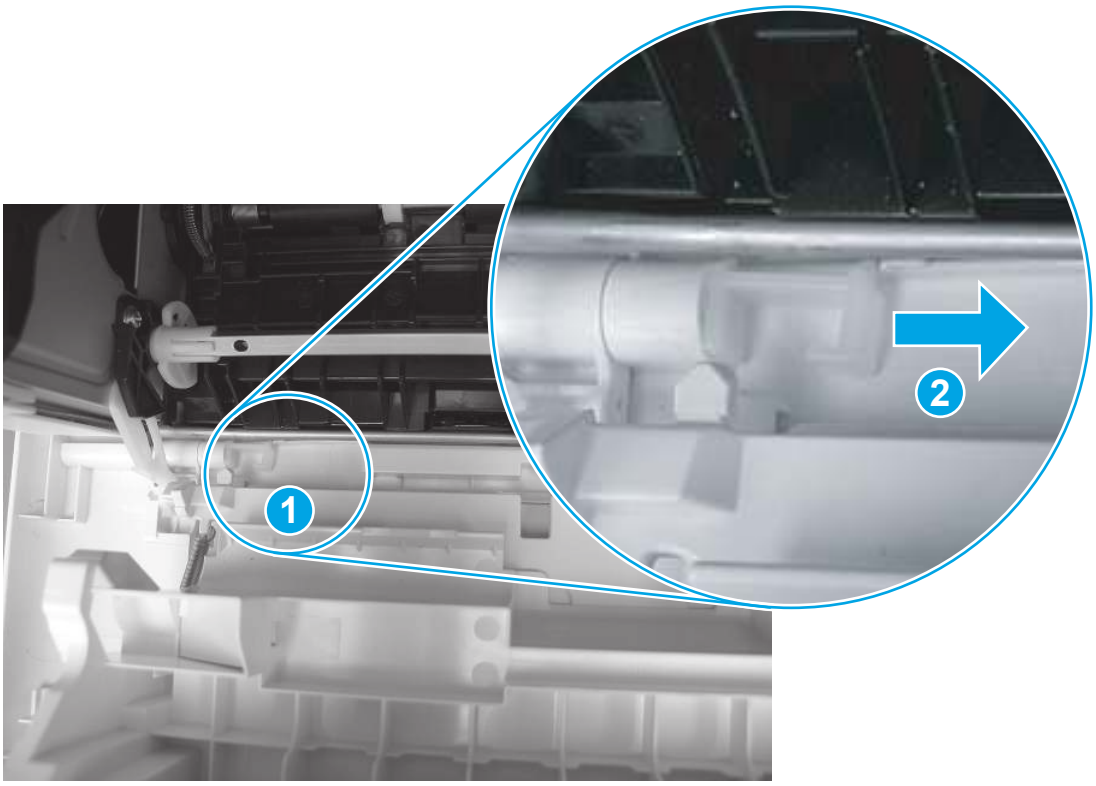
10. Remove the cartridge door assembly.

NOTE: If the toner cartridge was not removed prior to servicing the printer, remove it now.

a. Release the support shaft (callout 1), and then slide it toward the center of the door (callout 2).

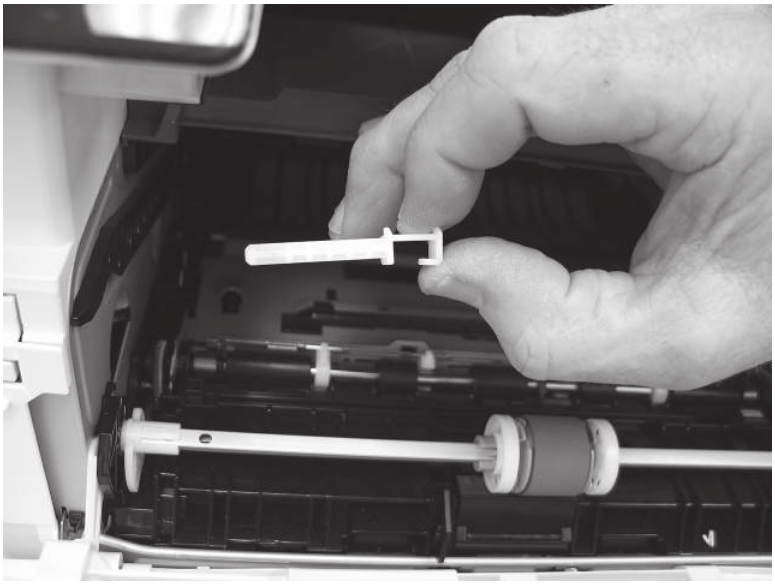
TIP: It might be easier to release the support shaft by using a small flat-blade screwdriver.

Figure 1-568 Release the support shaft



b. Remove the support shaft.

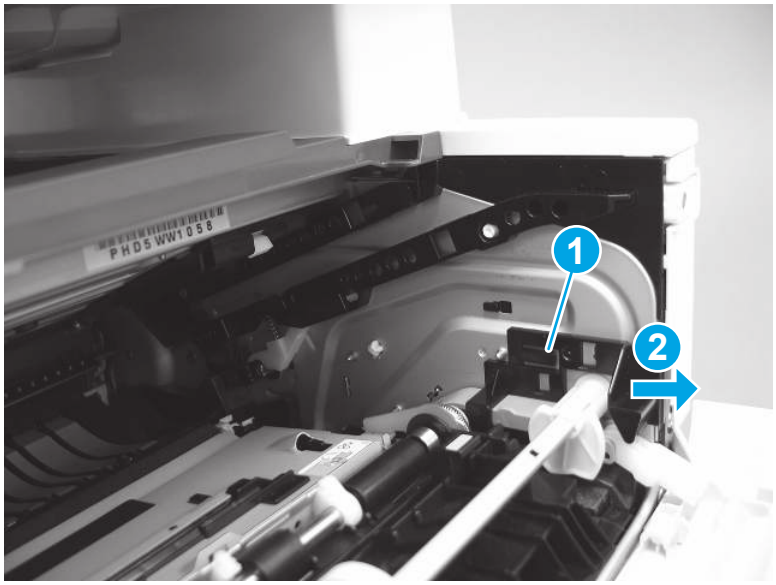
Figure 1-569 Remove the support shaft



c. Release one tab (callout 1), and then slide the guide out of the printer (callout 2).

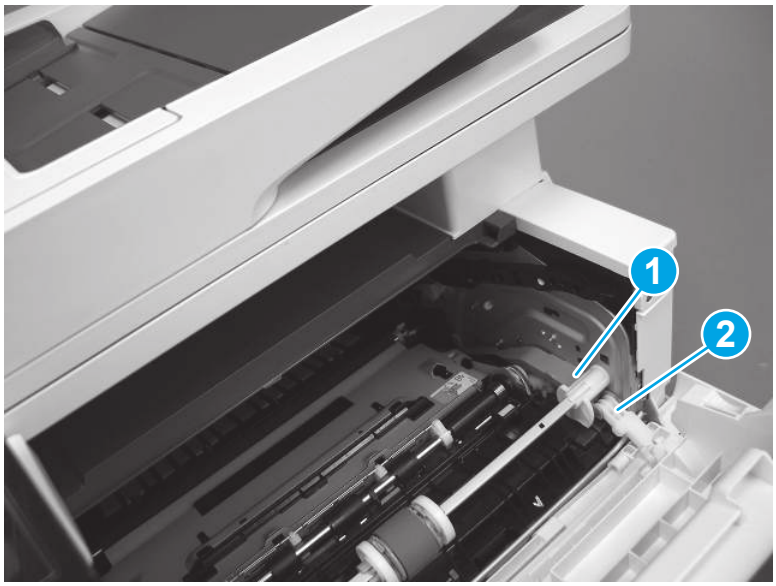
⚠ CAUTION: Be careful, the tab (callout 1) can be easily broken.

Figure 1-570 Remove the guide



d. Use a small flat-blade screwdriver to gently pry the white-plastic door arm (callout 1) off of the gray-plastic pressure-release link (callout 2) to release the door arm.

Figure 1-571 Release the pressure-release link



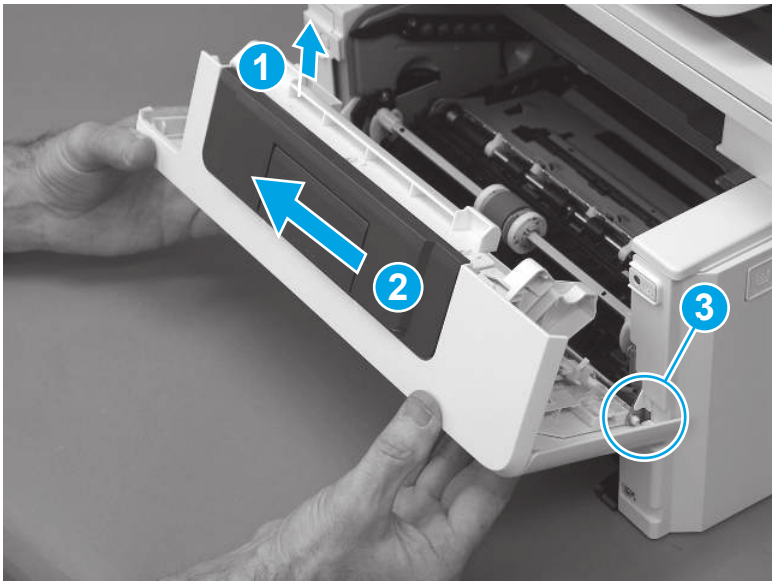
e. With the door in the partially closed position, slightly raise the left end (callout 1; raise it over the sheet-metal hinge boss), and then slide the door to the left (callout 2) to release the right hinge (callout 3).

⚠ CAUTION: The door is still attached to the printer by the left-side retainer arm. Do not attempt to completely remove the door.

Reinstallation tip: When reinstalling the door, there are two right-side hinge pins (not shown in callout 3).

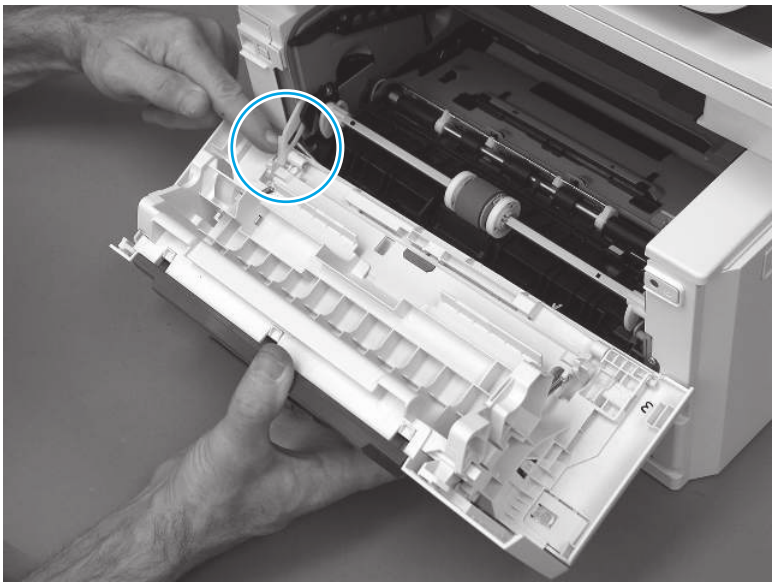
Keep a finger pressed on the left-side retainer arm so that it does not disengage from the door.

Figure 1-572 Release the door



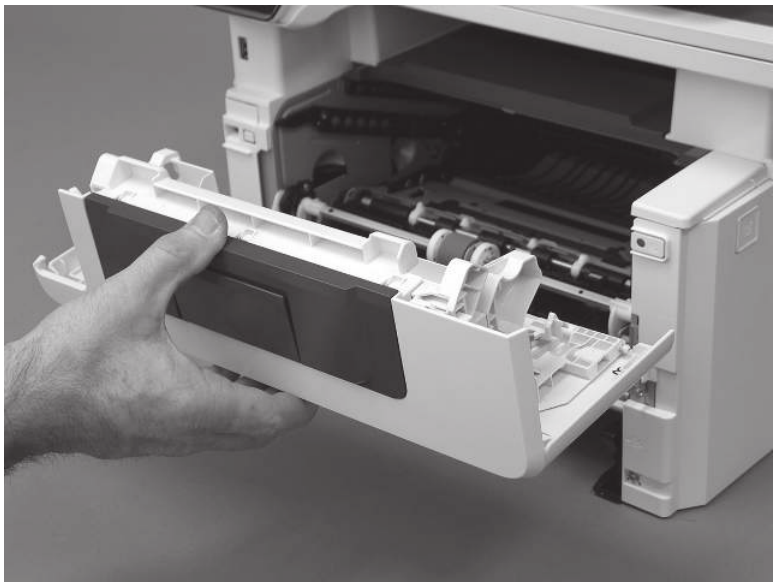
f. Rotate the door away from the printer until the keyed pin on the left-side retainer arm can disengage from the door.

Figure 1-573 Release the left-side retainer arm



g. Remove the door.

Figure 1-574 Remove the door



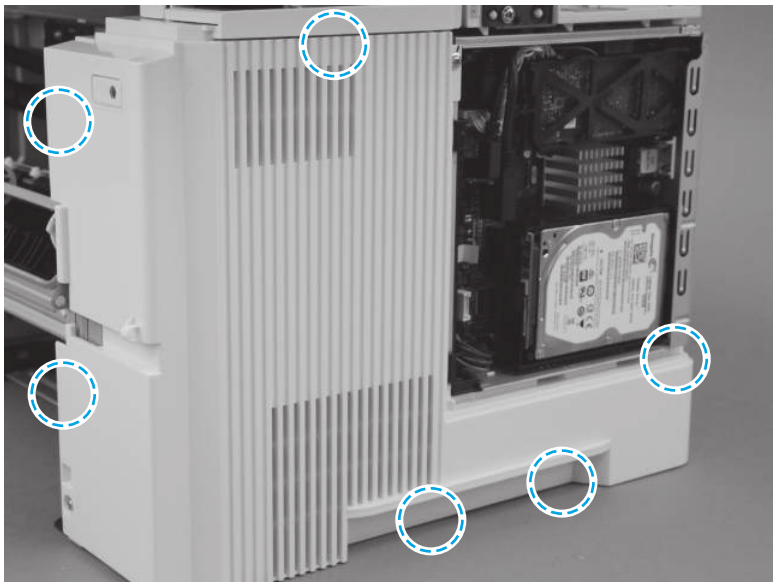
11. Remove the right cover.

IMPORTANT: The black-plastic cassette front and rear guides (located inside the tray cavity) can be easily dislodged. Do not lose the guides when the cover is removed or installed.

An MFP printer is shown in this section. However, the procedure is correct for all printer models.

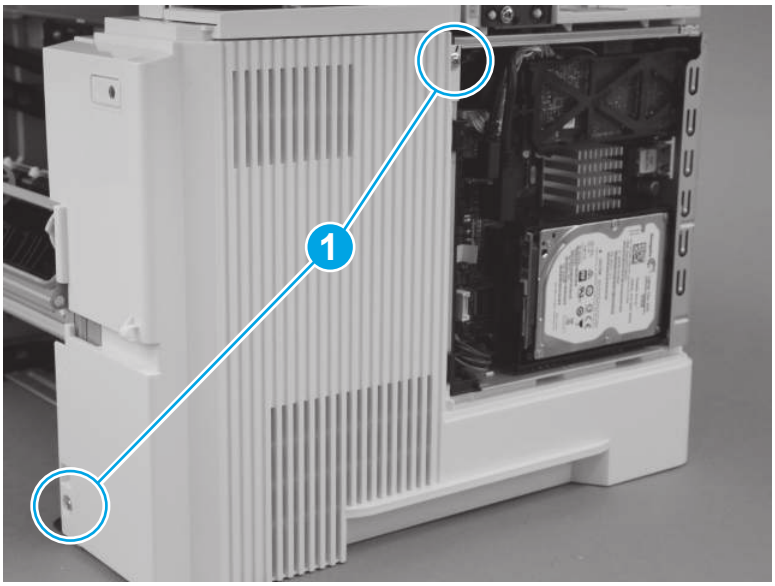
a. Before proceeding, take note of the location of the tabs and bosses on the inside of the cover.

Figure 1-575 Locate the tabs and bosses



b. Remove two screws (callout 1).

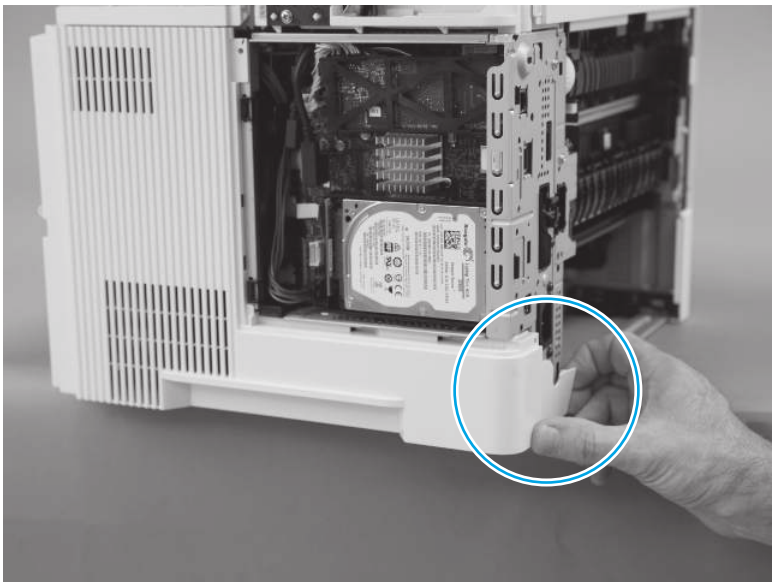
Figure 1-576 Remove two screws



c. At the rear of the printer, release one boss.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

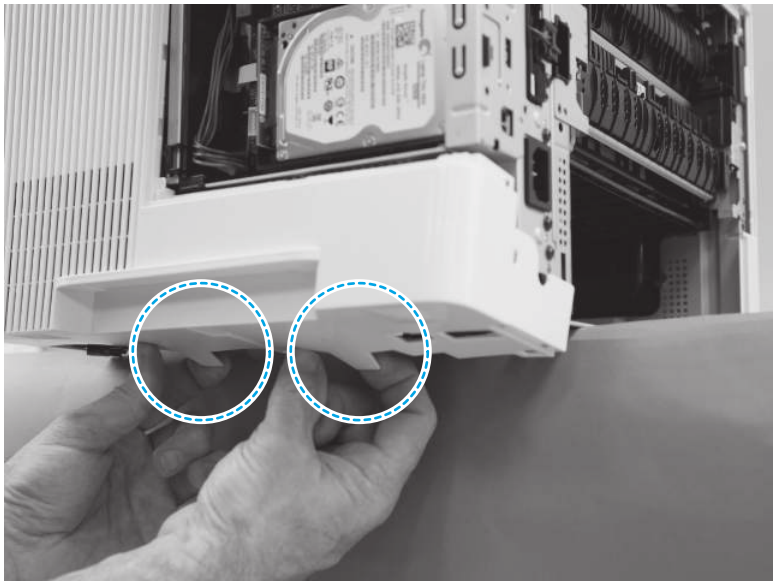
Figure 1-577 Release one boss



d. At the bottom edge of the cover, release two bosses.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

Figure 1-578 Release two bosses

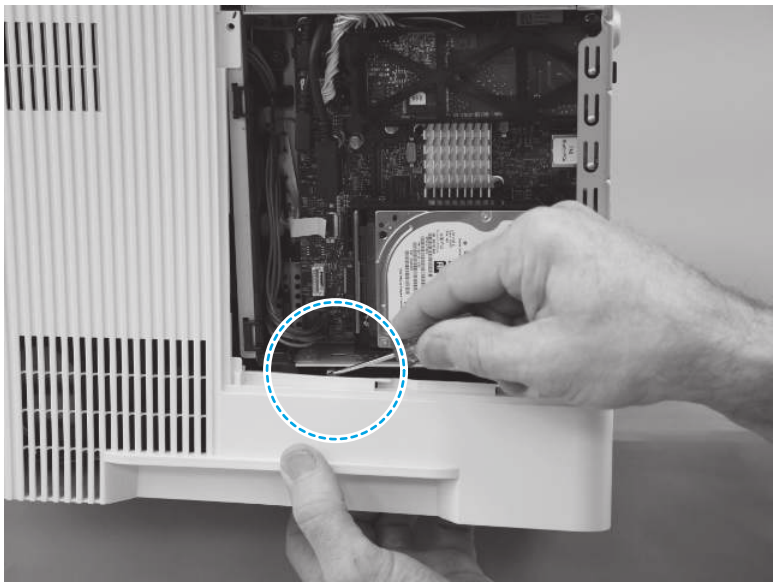


e. Near the formatter, release one tab.

CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

TIP: Hold the bottom of the cover away from the printer, and then use a small flat-blade screw driver to easily release this tab.

Figure 1-579 Release one tab

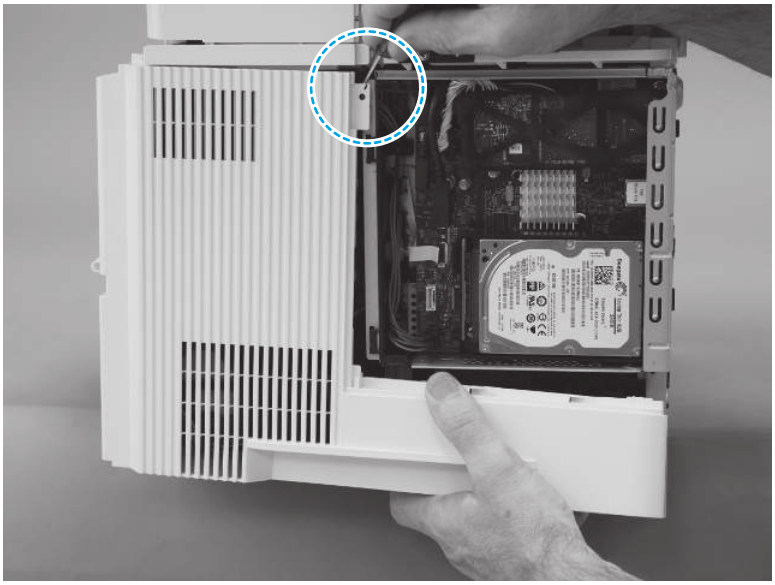


f. At the top rear edge of the cover, release one tab.

CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

TIP: Use a small flat-blade screw driver to easily release this tab.

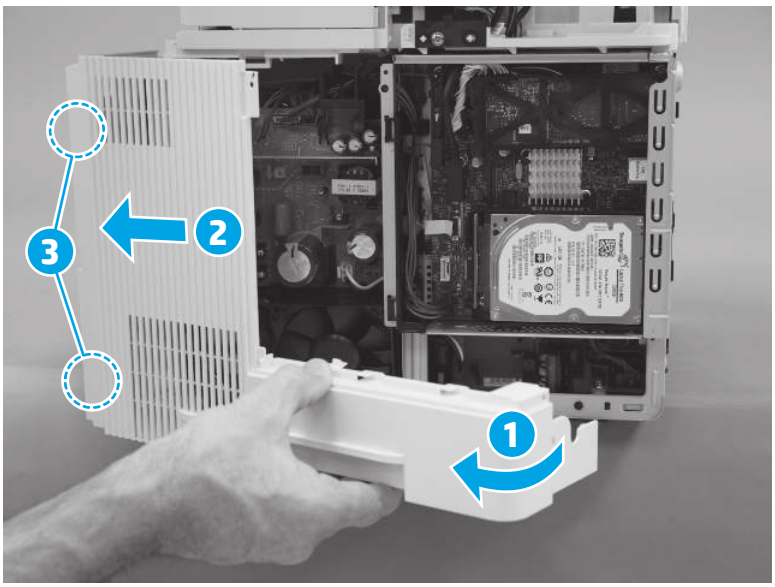
Figure 1-580 Release one tab



g. Rotate the rear of the cover away from the printer (callout 1), slide the cover toward the front of the printer (callout 2) to release two bosses (callout 3), and then remove the cover.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

Figure 1-581 Remove the cover



12. Remove the left cover.

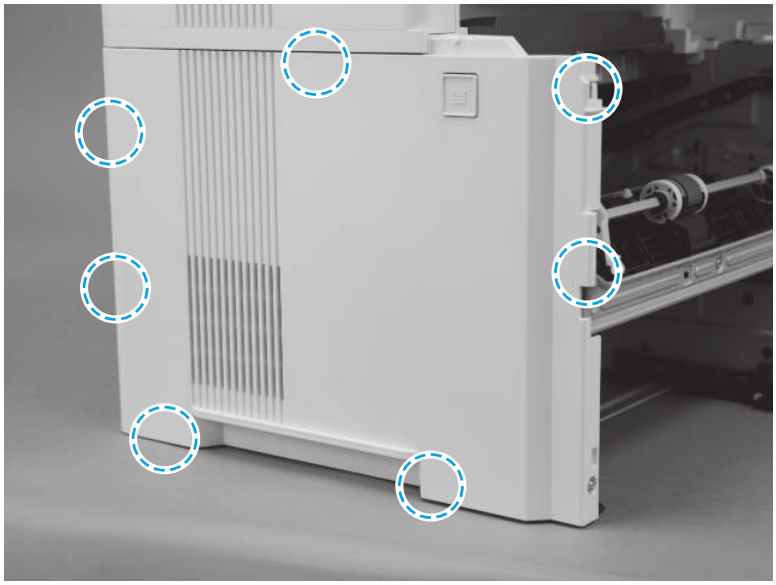
IMPORTANT: The black-plastic cassette front and rear guides (located inside the tray cavity) can be easily dislodged. Do not lose the guides when the cover is removed or installed.

NOTE: An MFP printer is shown in this section. However, the procedure is correct for all printer models.

a. Before proceeding, take note of the location of the tabs and bosses on the inside of the cover.

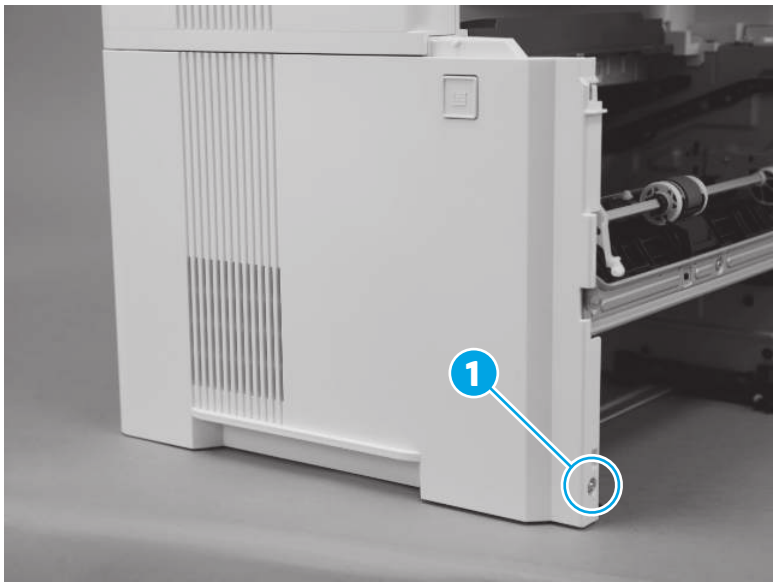
Reinstallation tip: When reinstalling the cover, take note of the location of the tabs and bosses on the inside of the cover.

Figure 1-582 Locate of the tabs and bosses



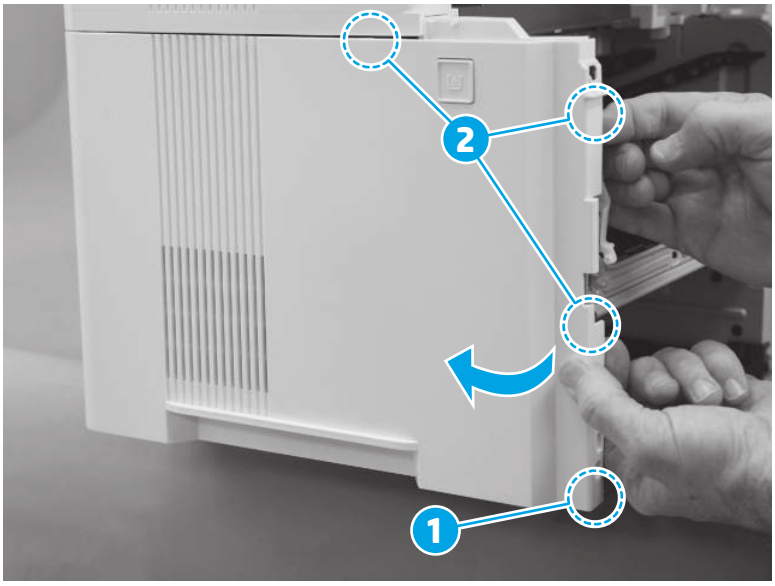
b. Remove one screw (callout 1).

Figure 1-583 Remove one screw



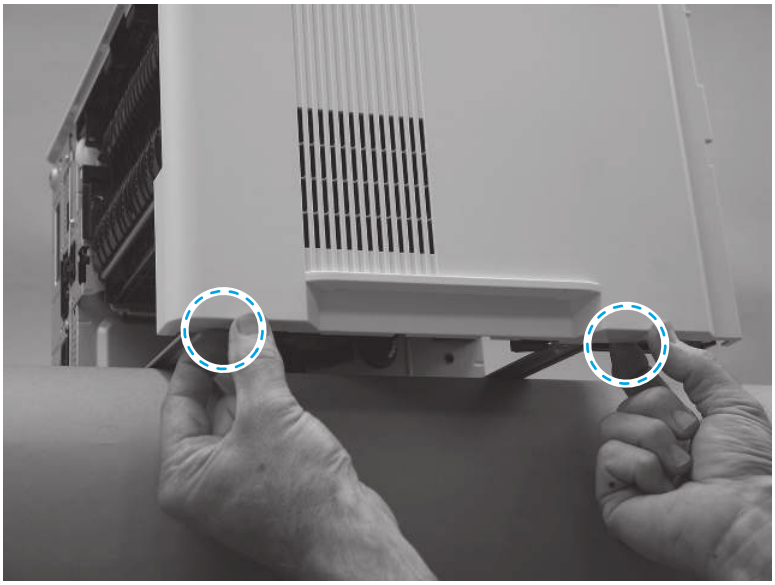
c. At the front of the printer, release one boss (callout 1), and then rotate the front edge of the cover away from the printer to release three tabs (callout 2).

Figure 1-584 Release one boss and three tabs



d. At the bottom edge of the cover, release two tabs.

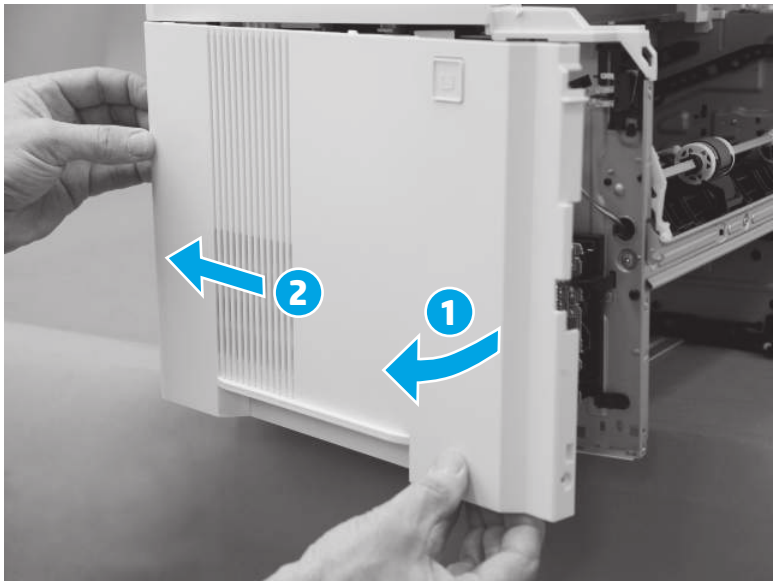
Figure 1-585 Release two tabs



e. Continue to rotate the front edge of the cover away from the printer (callout 1), and then slide the cover toward the rear of the printer (callout 2) to remove it.

NOTE: If the cover is difficult to rotate or slide as shown below, make sure that the bottom tabs (released in the previous step) are completely disengaged from the chassis.

Figure 1-586 Remove the cover



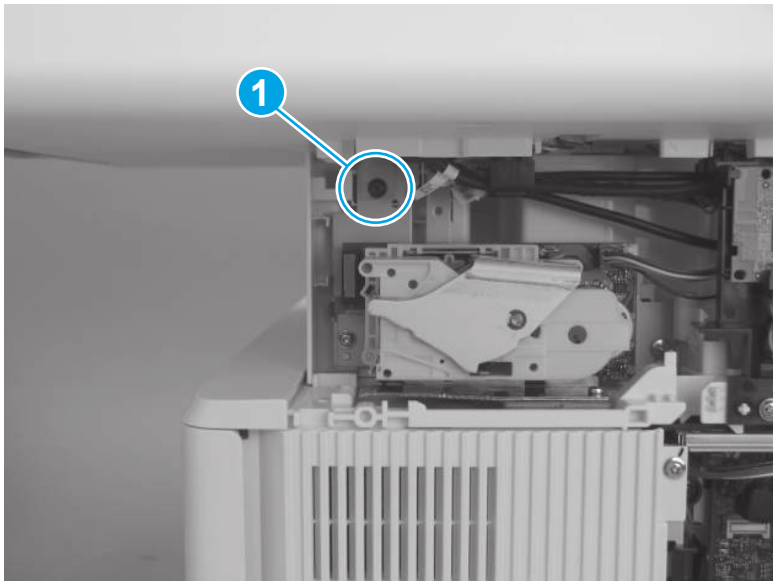
13. Remove the integrated-scanner assembly (ISA) (M527/E52545/M528/E52645).

NOTE: The ISA includes the document feeder, sub-scanner assembly (SSA), and the scanner control board (SCB).

a. Remove one screw (callout 1).

IMPORTANT: This screw fastens the ISA ground plate to the printer chassis. Do not lose this screw.

Figure 1-587 Remove one screw

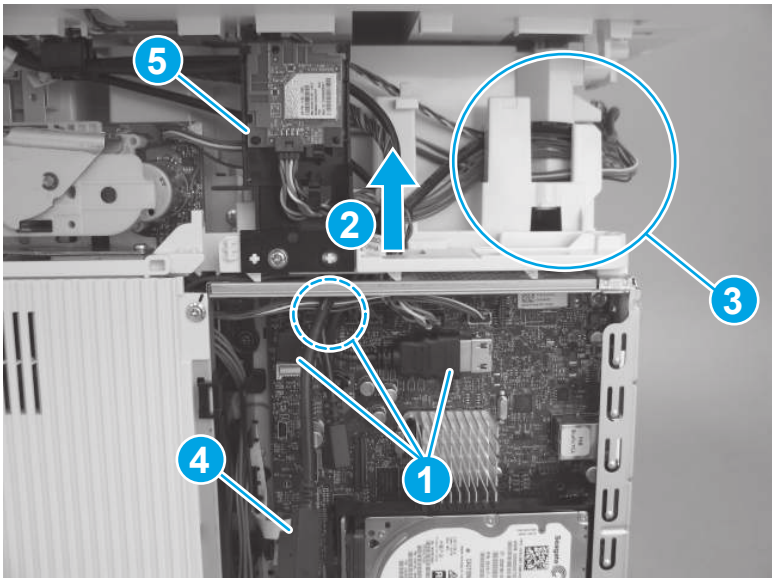


b. Disconnect three connectors (callout 1), pass the wire harnesses and cables through the opening in the cover (callout 2), and then release them from the retainers (callout 3).

NOTE: One cable (callout 4) does not need to pass through the opening in the cover.

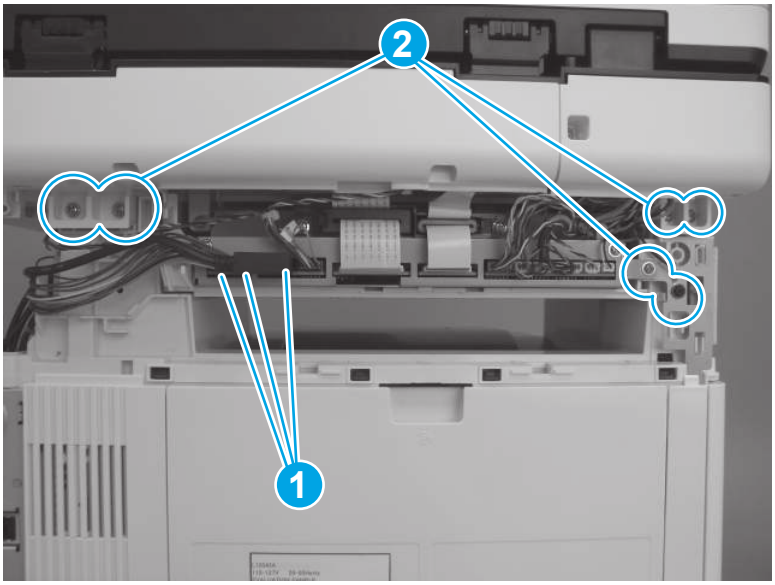
TIP: It might be easier if the WiFi PCA and holder (not all models; callout 5) is detached from the printer, and then moved out of the way.

Figure 1-588 Disconnect cables and connectors



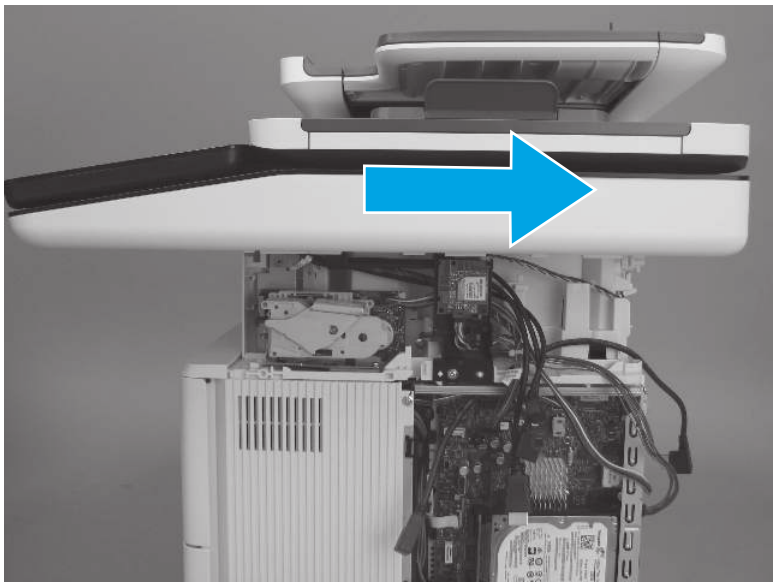
c. Disconnect three connectors (callout 1), and then remove six screws (callout 2).

Figure 1-589 Disconnect connectors and remove screws



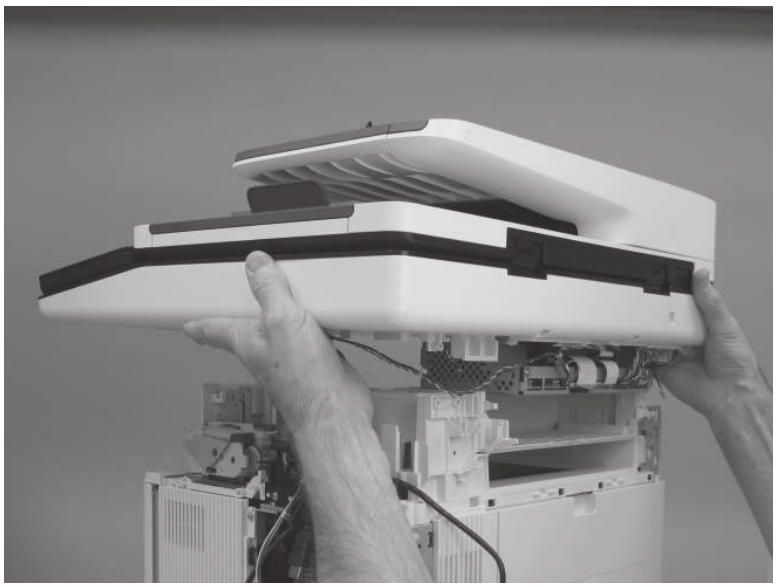
d. Slightly slide the ISA towards the back of the printer to release it.

Figure 1-590 Slide the ISA towards the back of the printer



e. Remove the ISA.

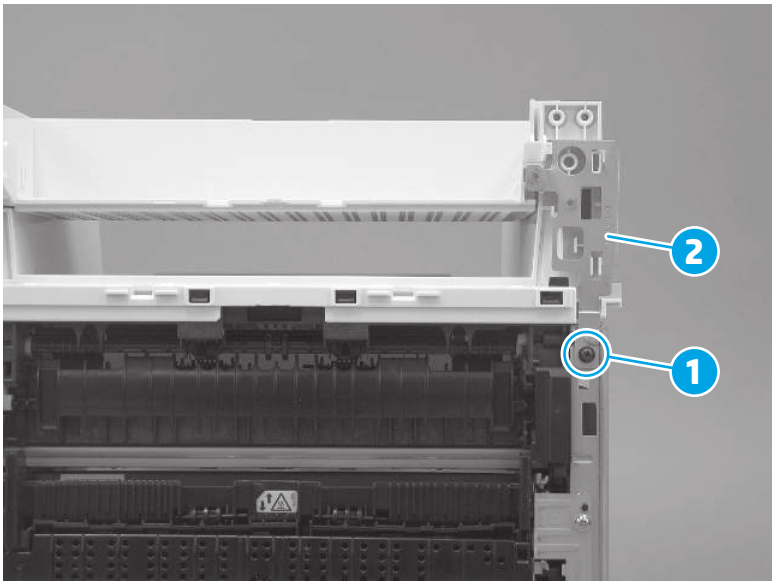
Figure 1-591 Remove the ISA



14. Remove the top cover (M527/E52545/M528/E52645).

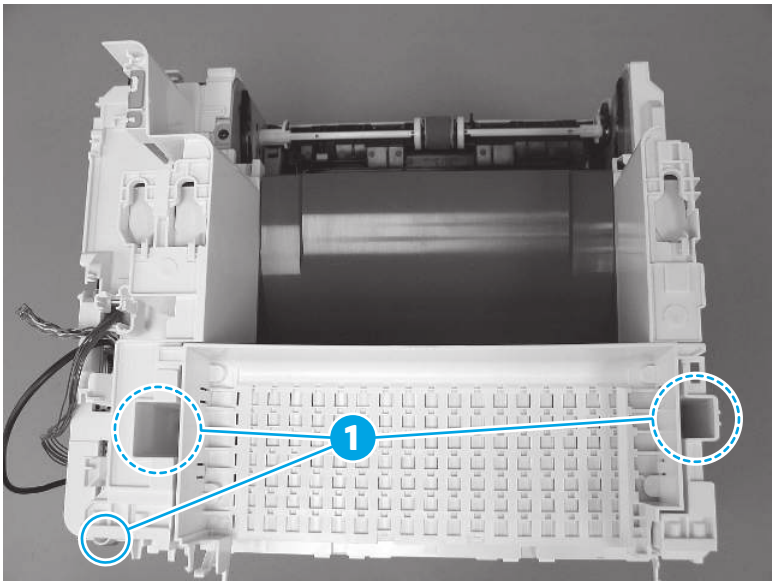
a. At the front right of the printer, remove one screw (callout 1), and then remove the sheet-metal plate (callout 2).

Figure 1-592 Remove one screw and the plate



b. At the top rear of the printer, remove three screws (callout 1).

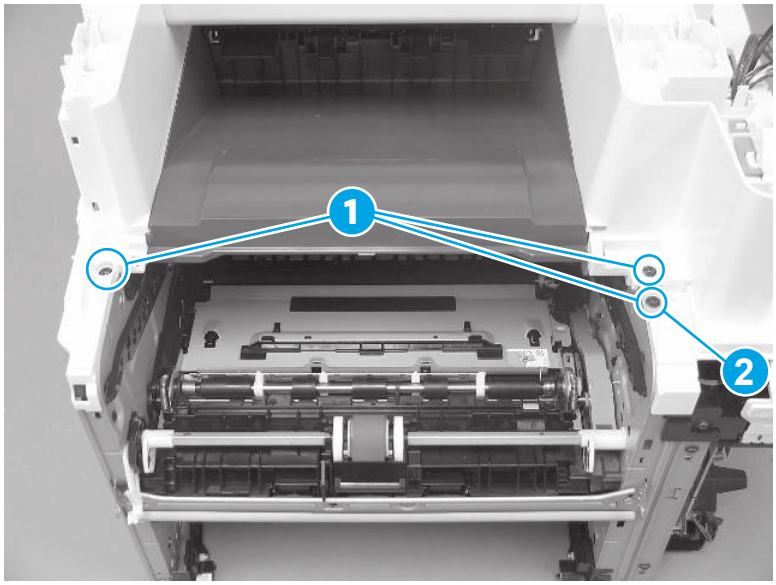
Figure 1-593 Remove three screws



c. At the top front of the printer, remove three screws (callout 1).

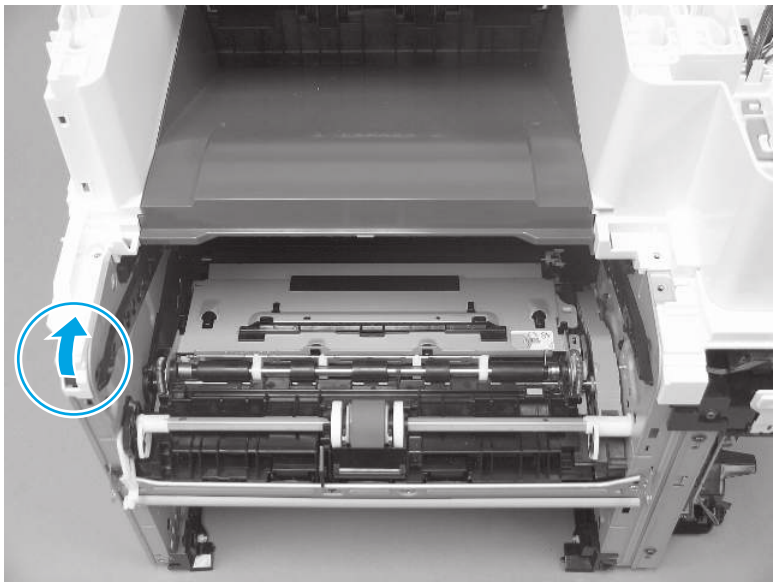
NOTE: The screw (callout 2) on the lower-right portion of the cover is a different color than the other two screws, and is surrounded by sheet-metal. It might appear that this screw does not need to be removed. Remove this screw.

Figure 1-594 Remove three screws



d. At the front left of the printer, release one boss.

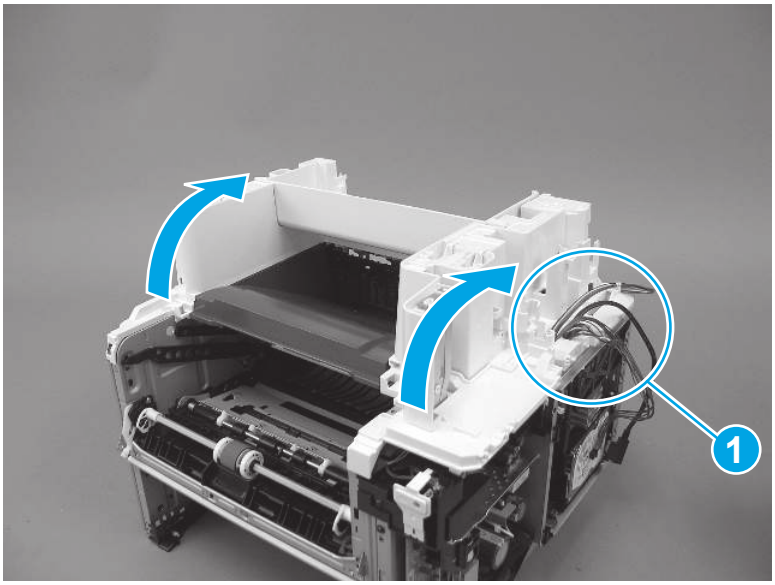
Figure 1-595 Release one boss



e. Rotate the front of the cover up and away from the printer.

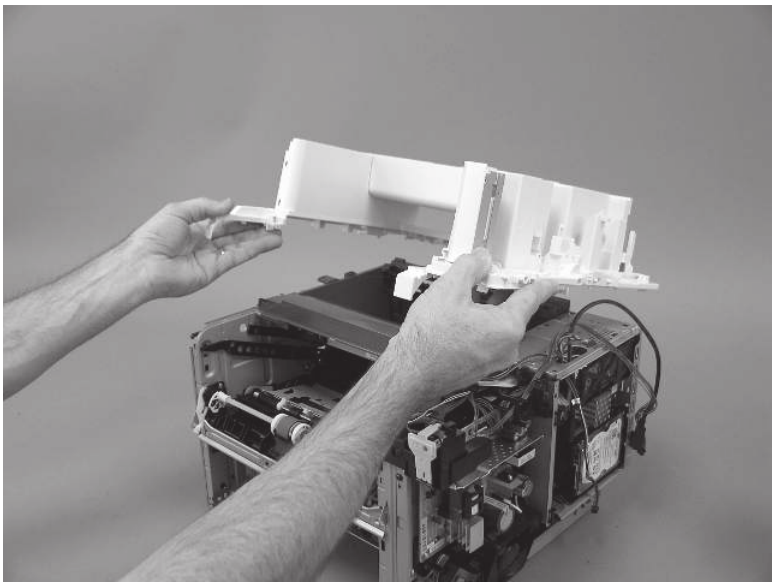
⚠ CAUTION: As the cover is rotated up, carefully pass the cables and wire harnesses the hole in the cover (callout 1).

Figure 1-596 Rotate the front of the cover up



f. Remove the cover.

Figure 1-597 Remove the cover

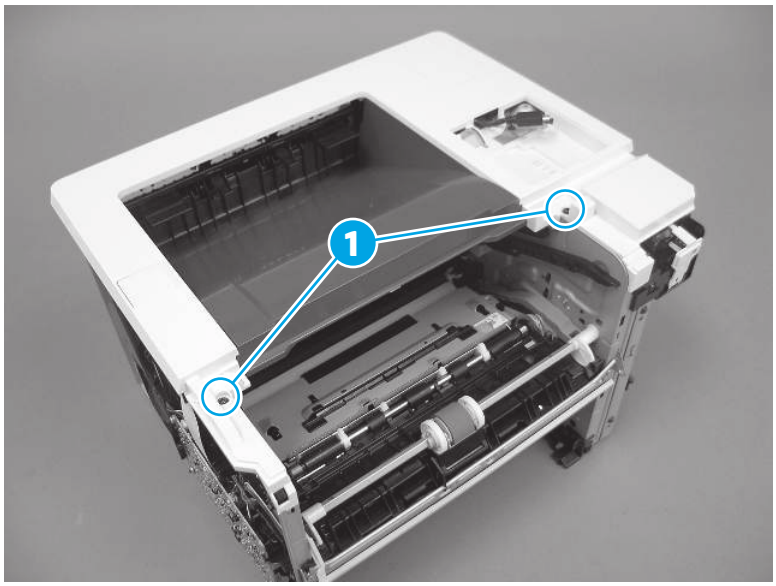


15. Remove the top cover (M501/M506/E50045/M507/E50145).

    The M506x/E50045x is shown in this procedure. However, the steps are correct for all M506/E50045/M507/E50145 models and the M501 printer.

a. Remove two screws (callout 1).

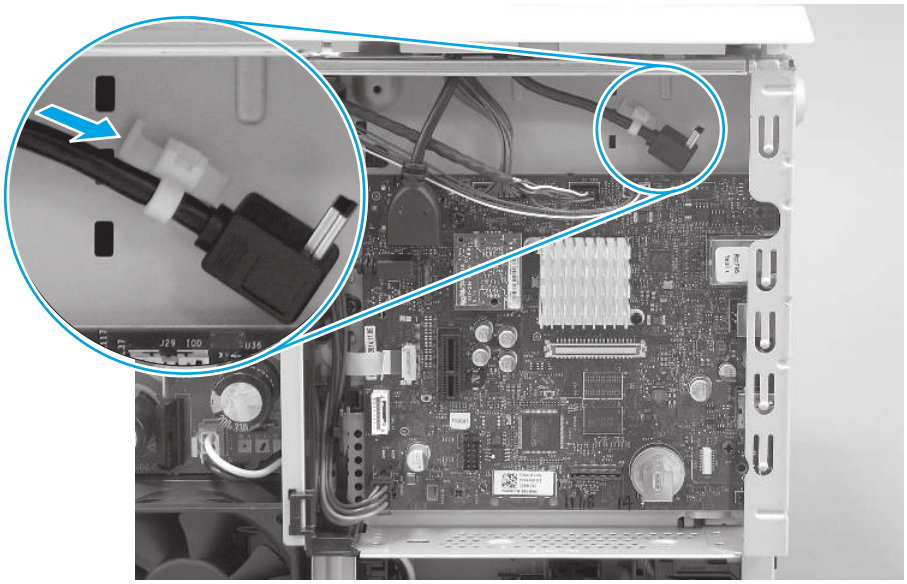
Figure 1-598 Remove two screws



b. **M506/E50045/ only**: Release one cable retainer from the chassis.

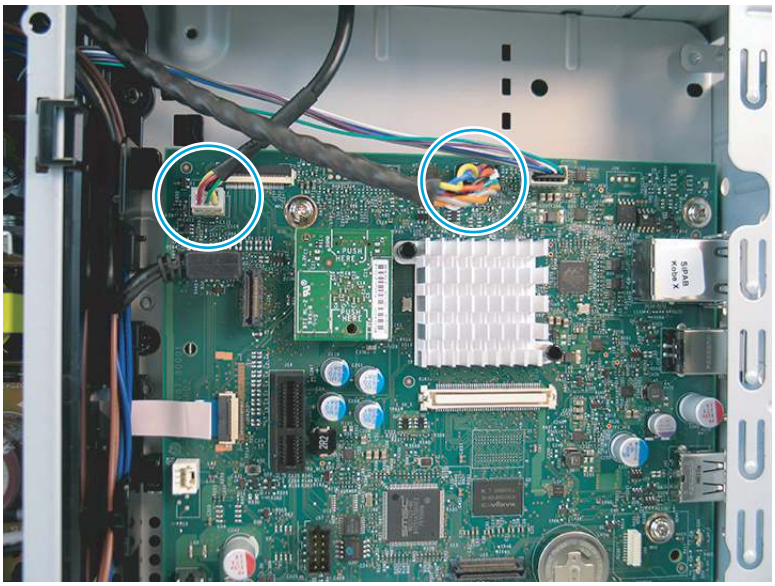
TIP: Depress the tab on the retainer to release it.

Figure 1-599 Release one cable retainer



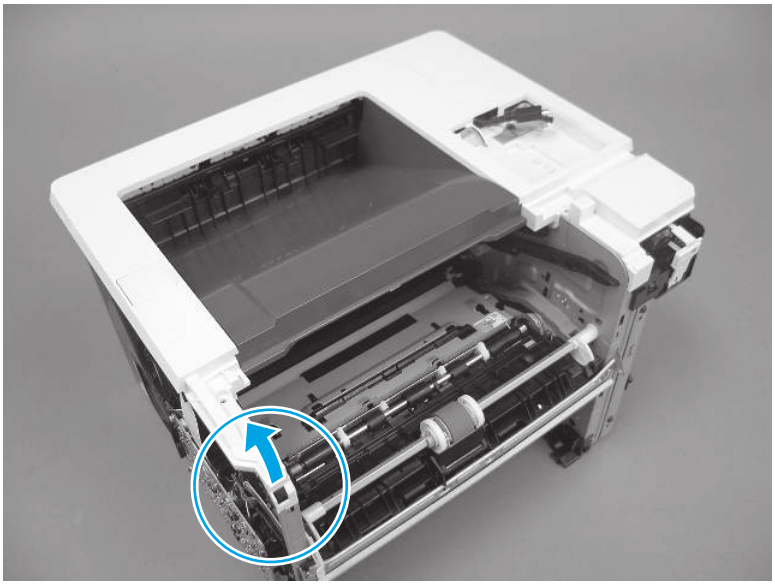
c. **M507/E50145 only**: Disconnect two connectors.

Figure 1-600 Disconnect two connectors



d. Release one boss.

Figure 1-601 Release one boss

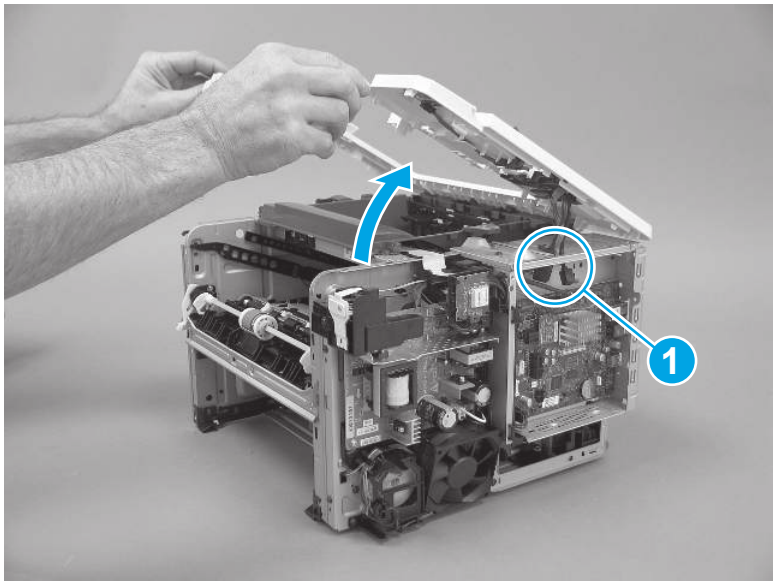


e. **M506/E50045/ only**: Rotate the front of the cover up and away from the printer, and then remove the cover.

⚠ CAUTION: **M506x/E50045x only**: As the cover is rotated up, carefully pass the cables the hole in the chassis (callout 1).

NOTE: **LCD control panel models only**: Disconnect the control panel before removing the cover.

Figure 1-602 Remove the cover (M506/E50045)



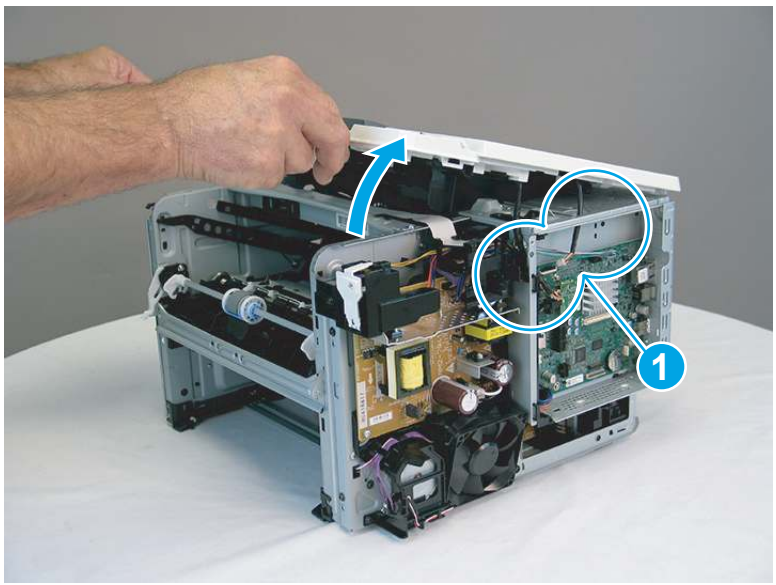
f. M507/E50145only: Rotate the front of the cover up and away from the printer, and then remove the cover.

CAUTION: M507x/E50145x only: As the cover is rotated up, carefully pass the cables the hole in the chassis (callout 1).

IMPORTANT: If the top cover is being replaced, make sure to transfer the WiFi PCA from the discarded cover to the replacement cover.

NOTE: LCD control panel models only: Disconnect the control panel before removing the cover.

Figure 1-603 Remove the cover (M507/E50145)

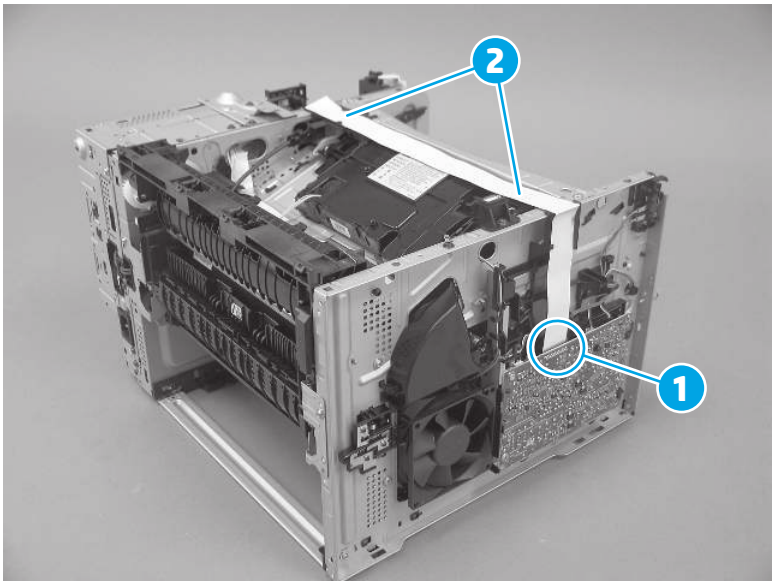


16. Remove the laser/scanner assembly.

NOTE: A SFP printer is shown in this section. However, the procedure is correct for all printer models.

a. Disconnect one flat-flexible cable (FFC; callout 1), release the FFC from the retainers (callout 2), and then move it out of the way.

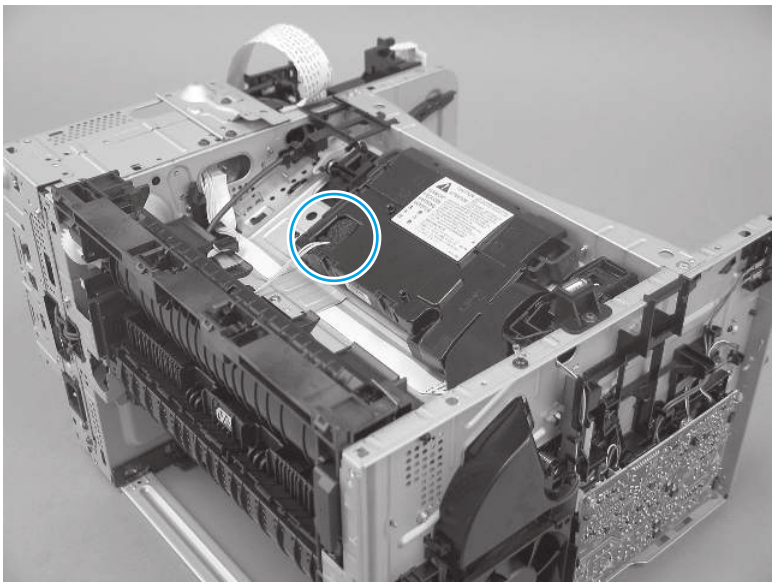
Figure 1-604 Disconnect one FFC



b. Remove the antistatic foam pad.

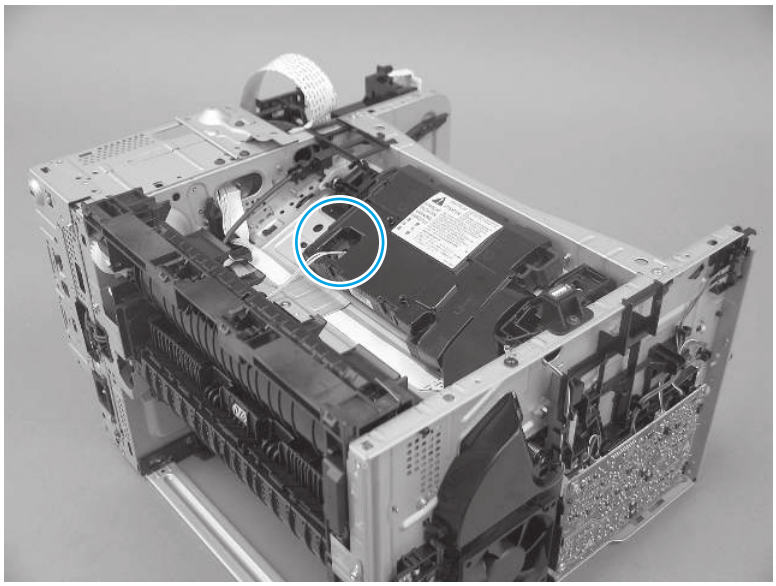
Reinstallation tip: Set the antistatic foam pad aside. It must be installed on the replacement laser/scanner.

Figure 1-605 Remove the antistatic foam pad



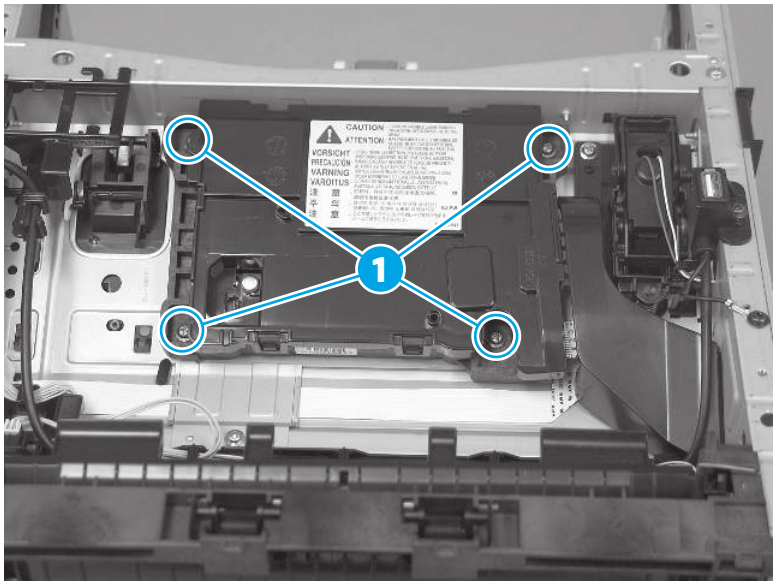
c. Disconnect one connector.

Figure 1-606 Disconnect one connector



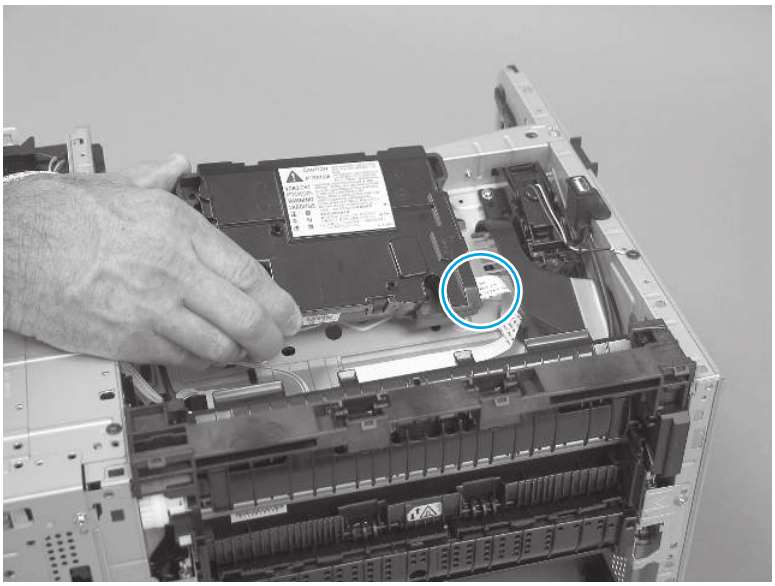
d. Remove four screws (callout 1).

Figure 1-607 Remove four screws



e. Disconnect one FFC, and then remove the laser/scanner.

Figure 1-608 Remove the laser/scanner



17. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Removal and replacement: Formatter case

Learn how to remove and replace the formatter case.

To view a short video of this procedure, click the link below.

M501

View a video of how to remove and replace the formatter case (M501).

M506/E50045

View a video of how to remove and replace the formatter case (M506/E50045).

M507/E50145

View a video of how to remove and replace the formatter case (M507/E50145).

M527/E52545/M528/E52645

View a video of how to remove and replace the formatter case (M527/E52545/M528/E52645).

Mean time to repair: 7 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

⚠ **WARNING!** To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-36 Part information

Part number	Part description
RL2-0895-000CN	Case, formatter (M527/E52545/M528/E52645)
RL2-0885-000CN	Case, formatter (M506/E50045/M507/E50145)
RL2-0888-000CN	Case, formatter (M501)

Required tools

- Small flat-blade screwdriver
- #2 Phillips screwdriver with a magnetic tip and a 152 mm (6 in) shaft length

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

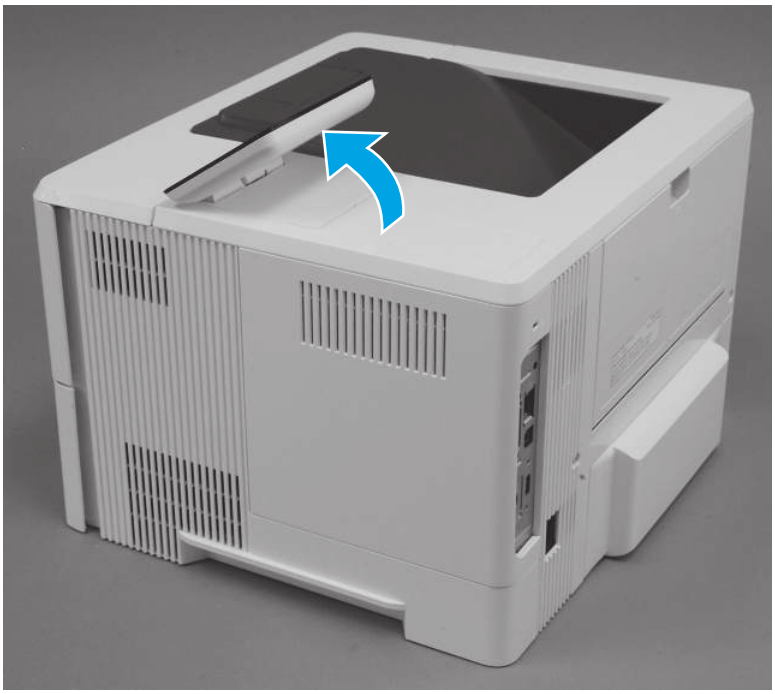
Make sure that the printer initializes to a **Ready** state.

Print a configuration page to make sure that the printer is functioning correctly.

1. Remove the control panel (M506x/E50045x/M507x/E50145x).

   a. Tilt the control panel to the fully raised position.

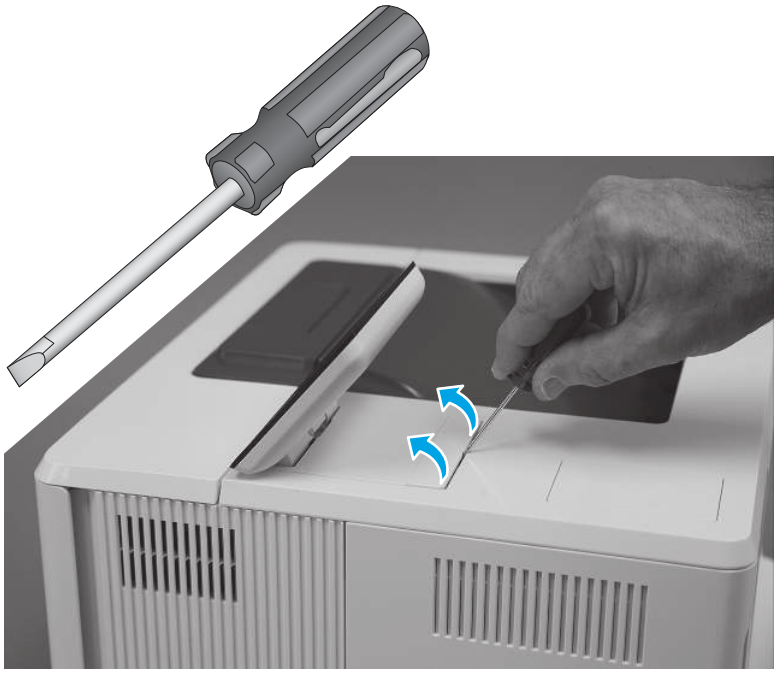
   Figure 1-609 Tilt the control panel up

   b. Use the small flat-blade screwdriver supplied in the kit to release the control-panel screws cover, and then remove the cover.

   TIP: The screwdriver has a reversible shaft. Simply pull the shaft out of the handle, and then reinstall it with the desired end facing out.

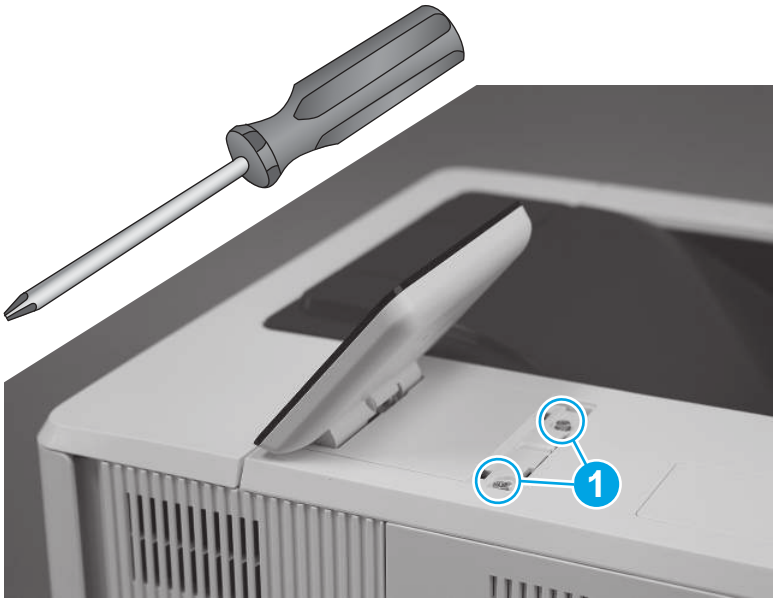
Figure 1-610 Remove the cover



c. Use the small Phillips screwdriver supplied in the kit to remove two screws (callout 1).

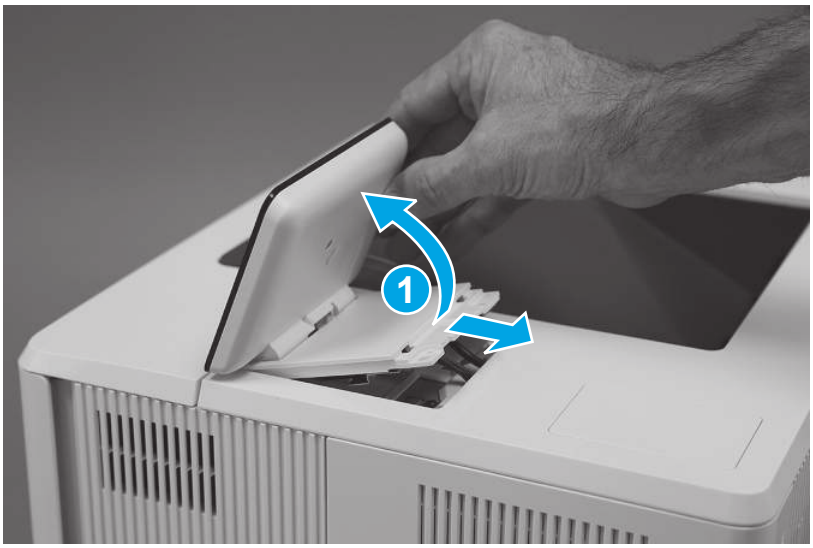
IMPORTANT: Store the screws in a secure place where they cannot fall down into the printer.

Figure 1-611 Remove two screws



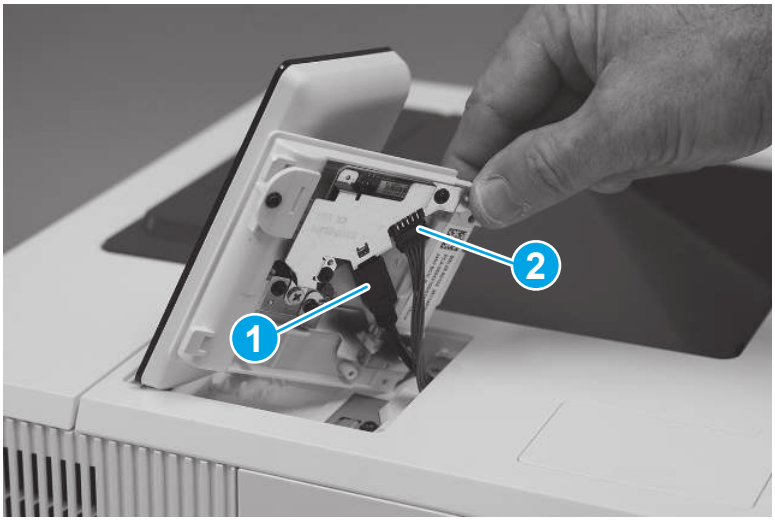
d. Turn the control panel over (callout 1), to gain access to the bottom side.

Figure 1-612 Turn the control panel over



e. **M506/E50045 only**: Disconnect one HDMI cable (callout 1), one connector (callout 2), and then remove the control panel.

Figure 1-613 Remove the control panel (M506/E50045)



f. **M507/E50154 only**: If the formatter cover has not been removed, remove it now. Disconnect one flat-flexible cable (FFC).

CAUTION: ESD sensitive part.

NOTE: This connector is a zero-insertion force (ZIF) connector. Open the locking clip. The clip is easily dislodged and lost.

Figure 1-614 Disconnect one FFC (M507/E50145)

g. **M507/E50145 only**: Pass the FFC through the opening in the cover, and then remove the control panel.

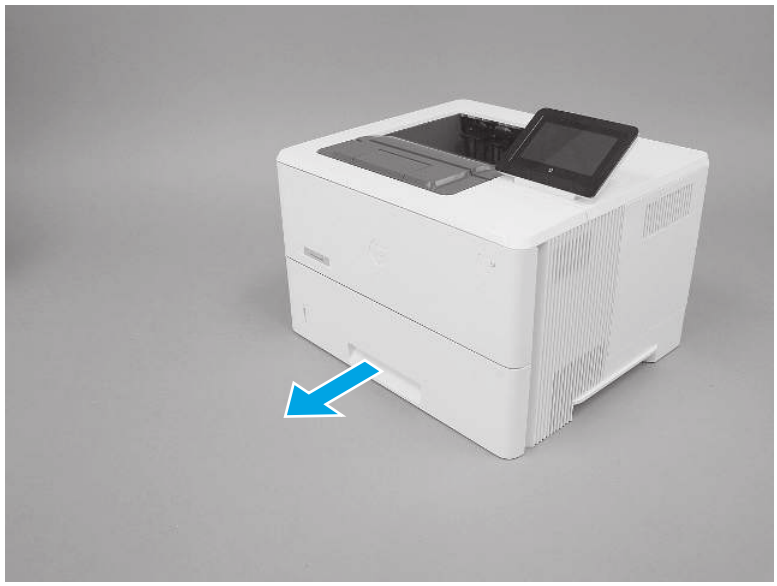
⚠ **CAUTION:** ESD sensitive part.

Figure 1-615 Remove the control panel (M507/E50145)

2. Remove the tray.

a. Pull the tray straight out of the printer until it stops.

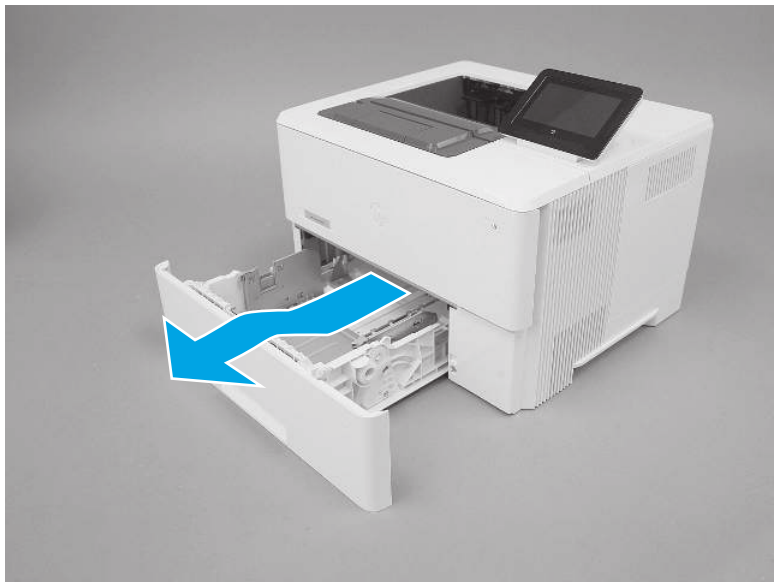
Figure 1-616 Pull the tray out until it stops



b. Lift the front of the tray, and then pull it out of the printer to remove it.

NOTE: If the tray has Fixed Tray Guides installed and are still required, move the hardware to new tray. If necessary, order new kit: 3GY19-67901 Kit-Fixed Tray Guide. Only one kit required per engine.

Figure 1-617 Release and remove the tray

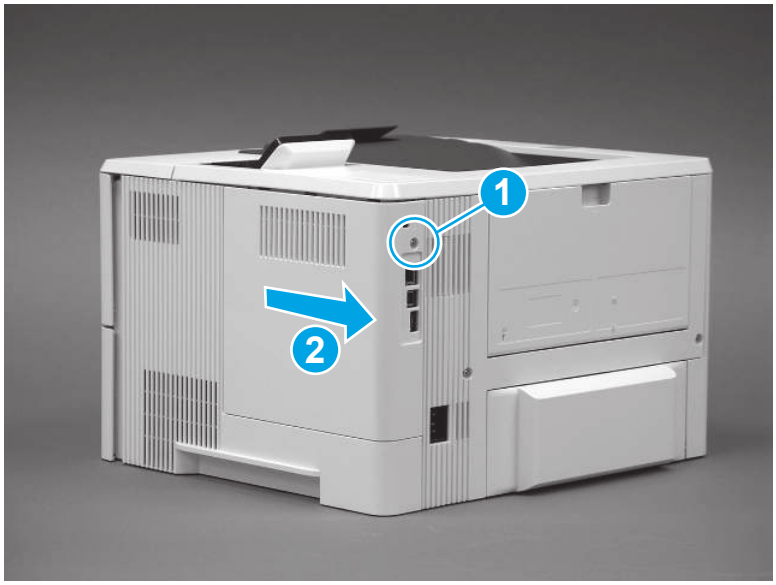


3. Remove the formatter cover.

▲ Do one of the following:

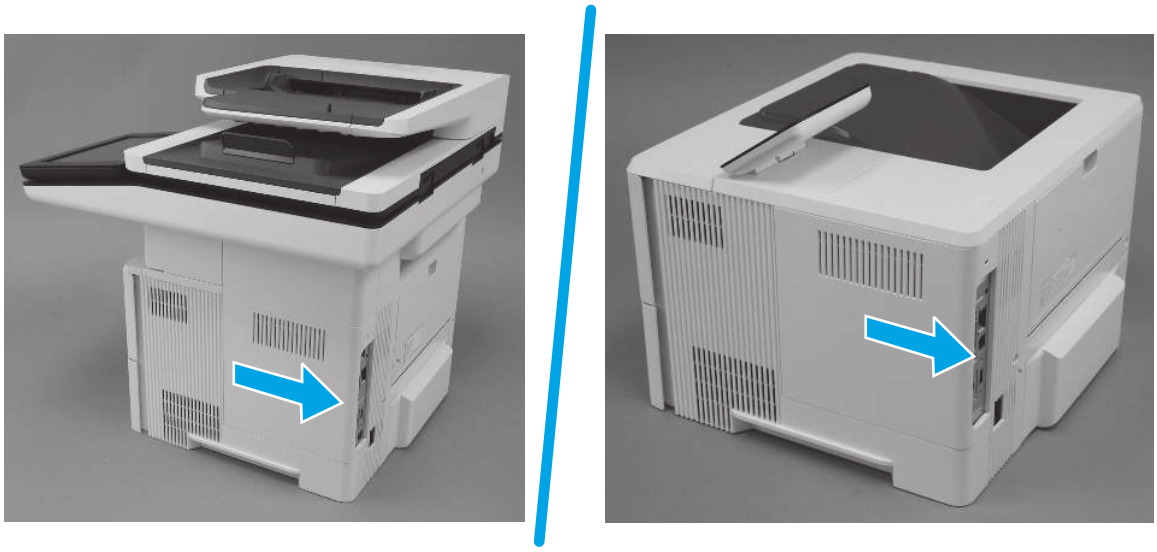
- M501: Remove one screw (callout 1), and then slide the cover toward the rear of the printer to remove it (callout 2).

Figure 1-618 Remove the formatter cover (M501)



- M506/E50045/M507/E50145/M527/E52545/M528/E52645: Slide the cover toward the rear of the printer to remove it.

Figure 1-619 Remove the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)

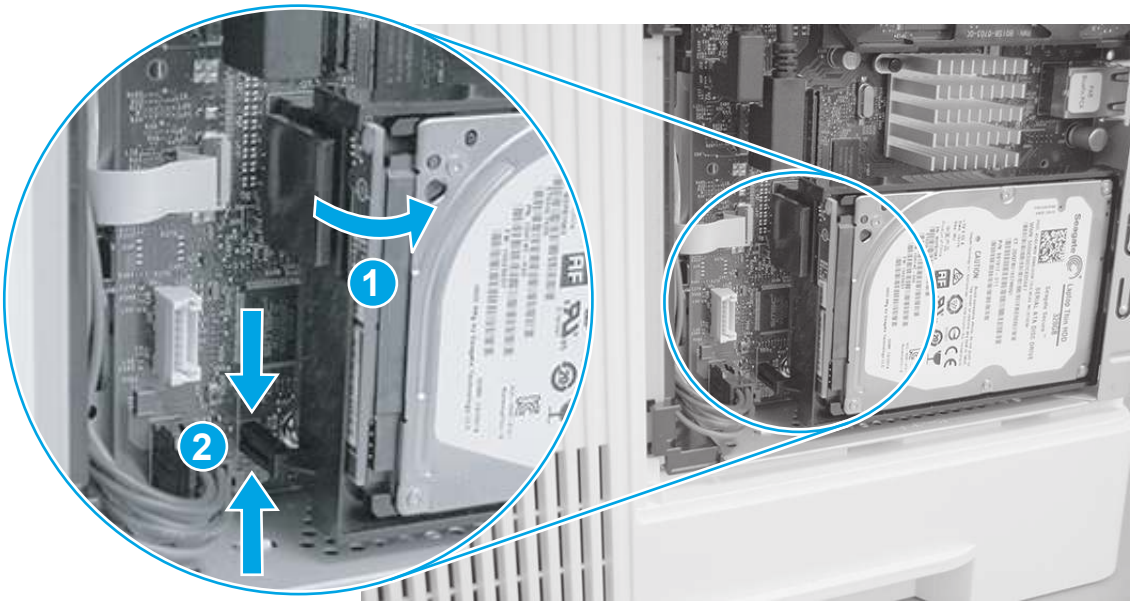


4. Remove the hard-disk drive (HDD models).

⚠ CAUTION: ESD sensitive part.

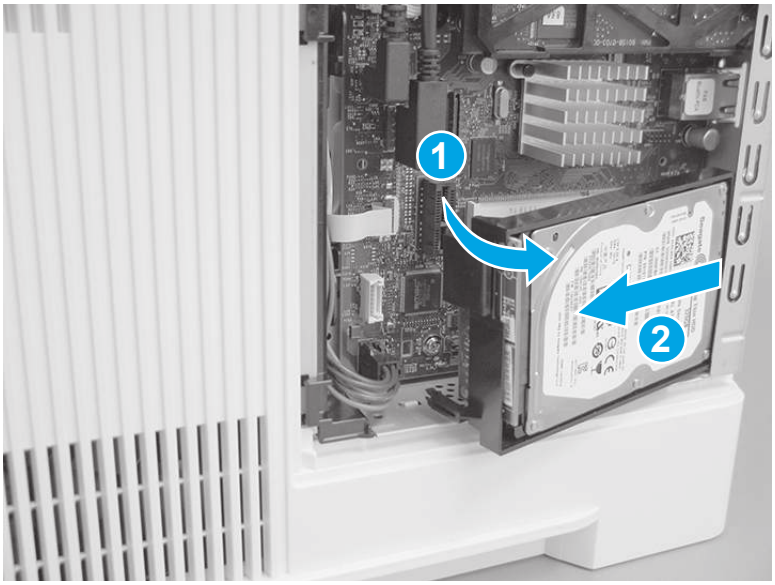
a. Release the locking connector (callout 1), and then pinch the retainer (callout 2) to release it.

Figure 1-620 Release the HDD



b. Rotate the connector end of the HDD out and away from the formatter (callout 1), and then slide it as shown (callout 2) to remove it.

Figure 1-621 Remove the HDD

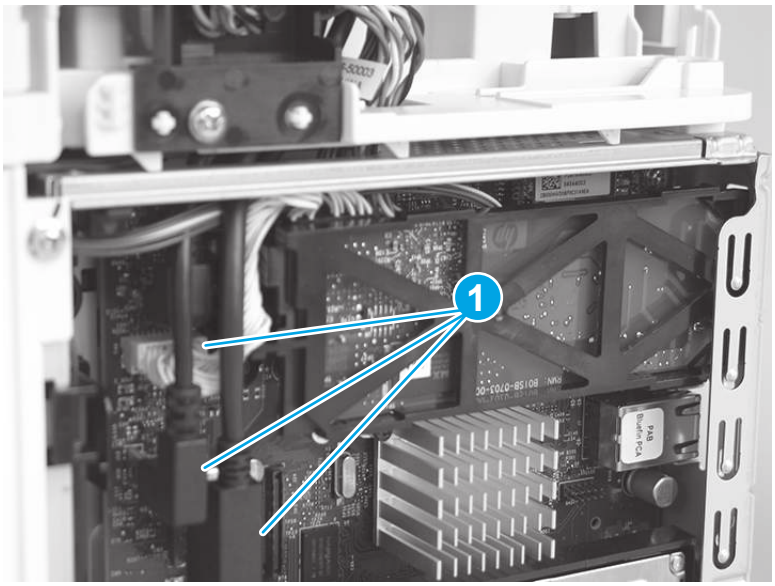


5. Remove the fax PCA (M527/E52545/M528/E52645 fax models).

⚠ CAUTION: ESD-sensitive part.

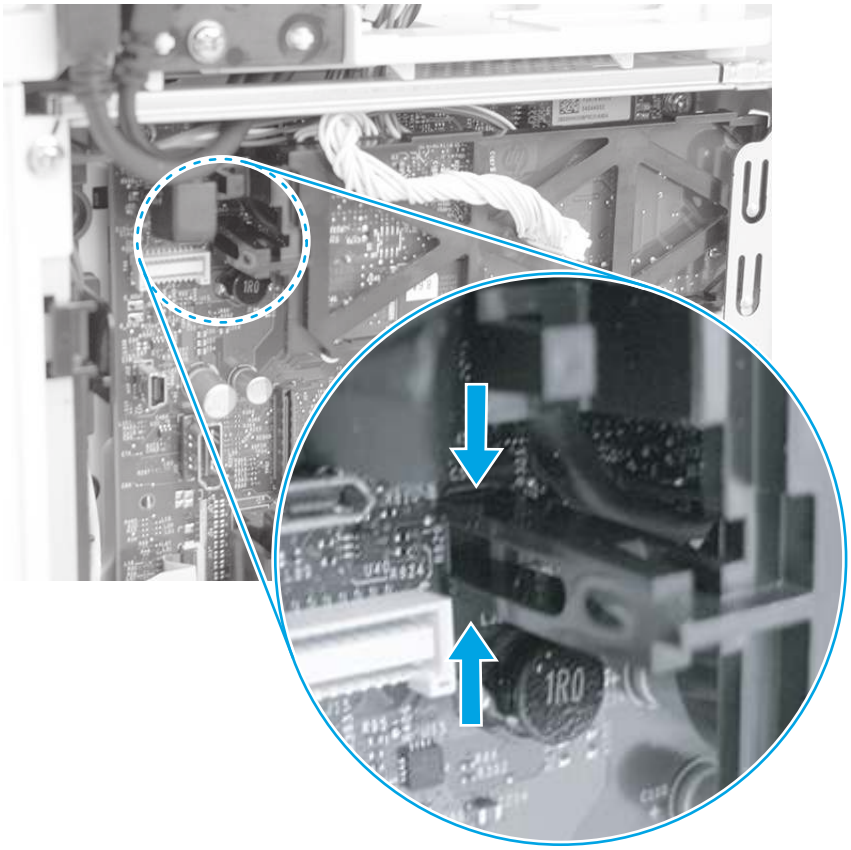
a. Disconnect three connectors (callout 1).

Figure 1-622 Disconnect three connectors



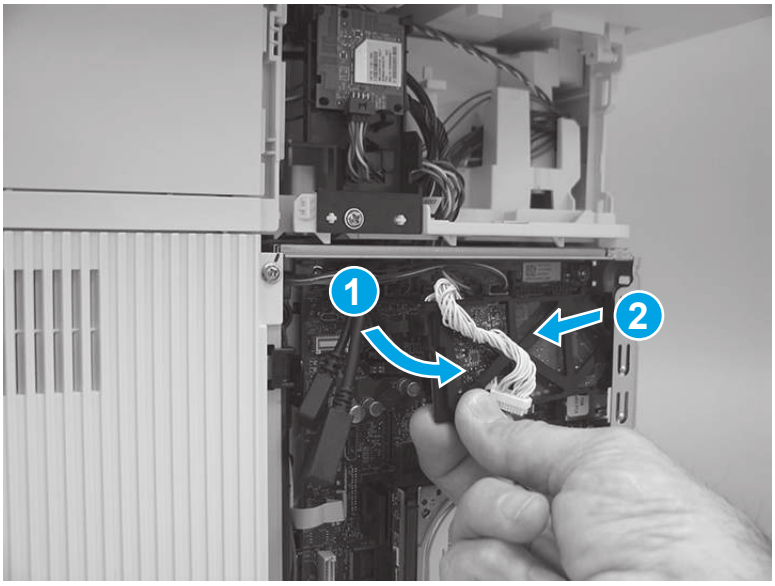
b. Pinch the retainer to release it.

Figure 1-623 Release the fax PCA



c. Rotate the connector end of the fax PCA out and away from the formatter (callout 1), and then slide it as shown (callout 2) to remove it.

Figure 1-624 Remove the fax PCA

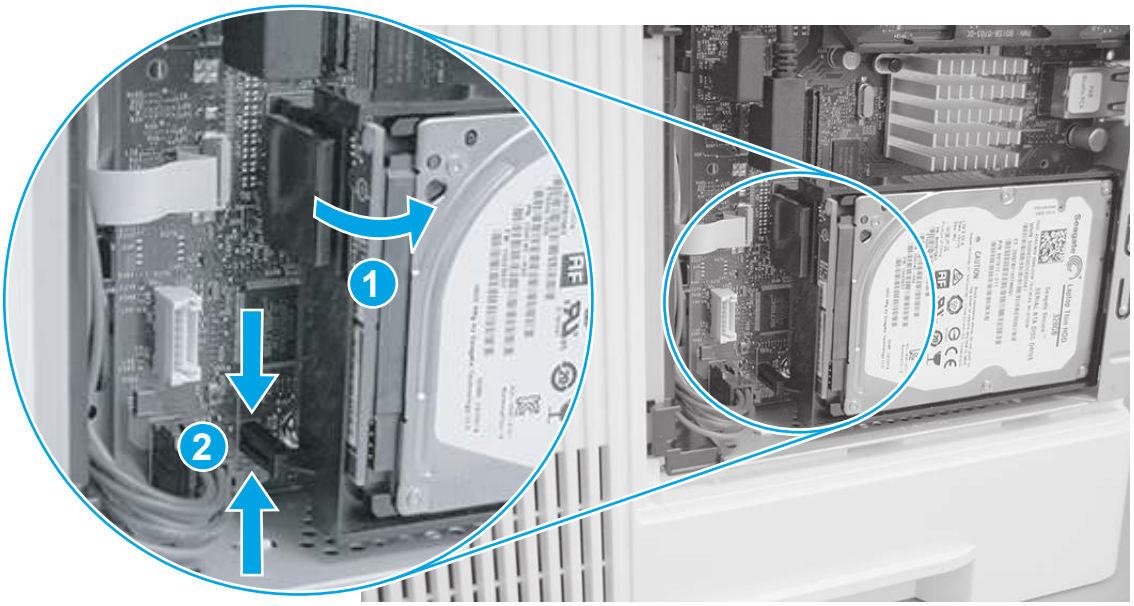


6. Remove the hard-disk drive (HDD models).

⚠ CAUTION: ESD sensitive part.

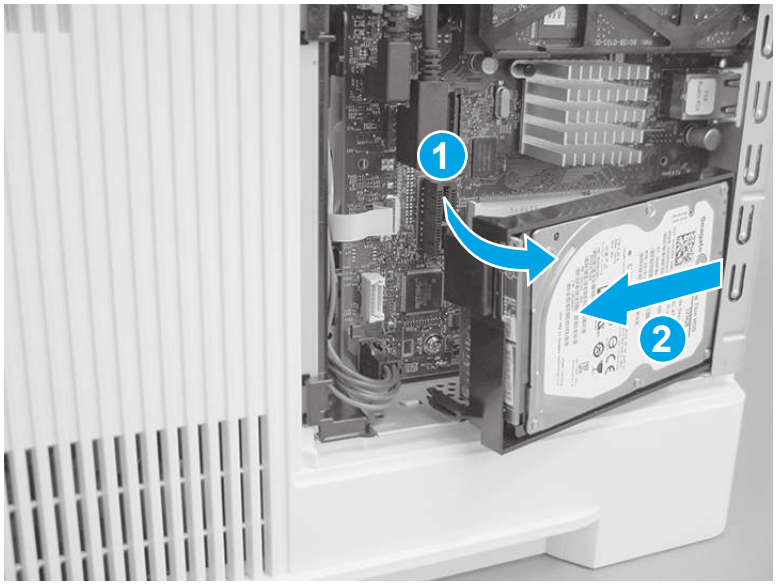
a. Release the locking connector (callout 1), and then pinch the retainer (callout 2) to release it.

Figure 1-625 Release the HDD



b. Rotate the connector end of the HDD out and away from the formatter (callout 1), and then slide it as shown (callout 2) to remove it.

Figure 1-626 Remove the HDD

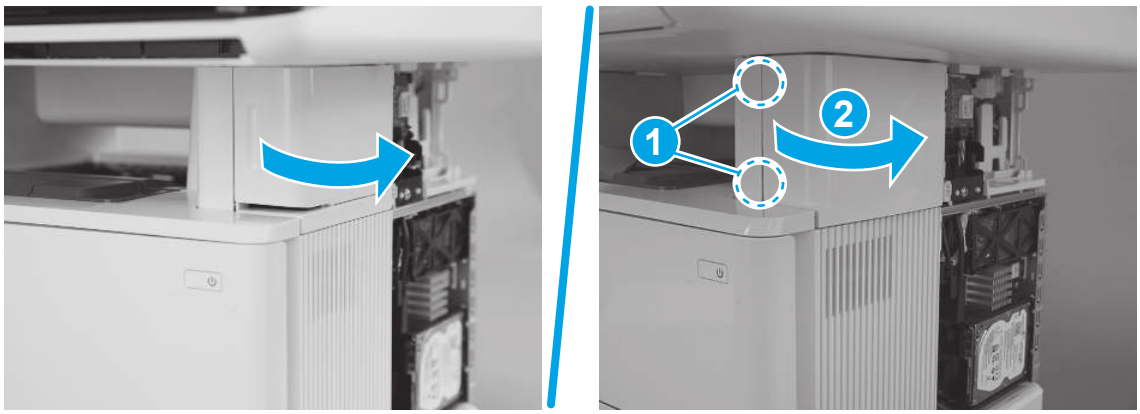


7. Remove the stapler door or stapler blank cover (M527/E52545/M528/E52645).

a. Do one of the following:

- **Stapler models**: Open the stapler door.
- **Non-stapler models**: Use a small flat-blade screw driver to release two tabs (callout 1), and then rotate the cover away from the printer (callout 2).

Figure 1-627 Open the door or release the cover



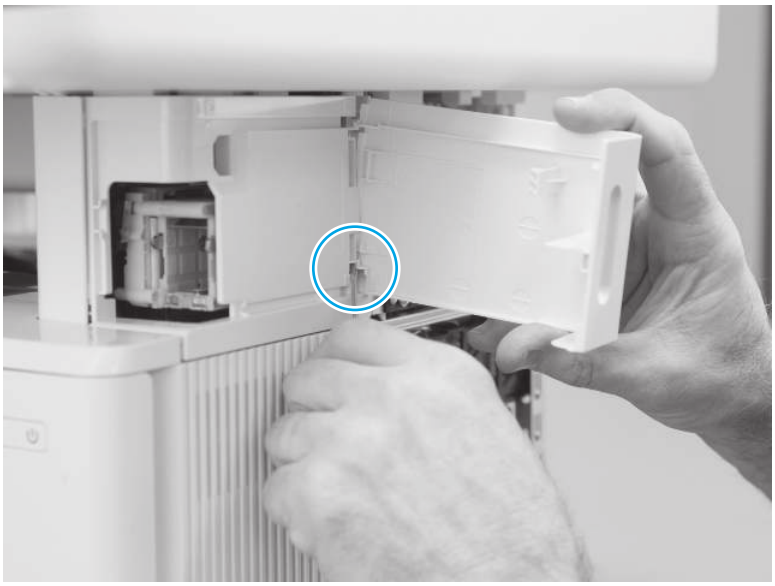
b. Do one of the following:

- **Stapler models**: Use a small flat-blade screwdriver to release the upper hinge.
- **Non-stapler models**: Slide the cover toward the front of the printer to remove it.

Figure 1-628 Release the upper hinge or remove the cover

c. **Stapler models**: Use a small flat-blade screwdriver to release the lower hinge.

Figure 1-629 Release the lower hinge



d. **Stapler models**: Remove the door.

Figure 1-630 Remove the door

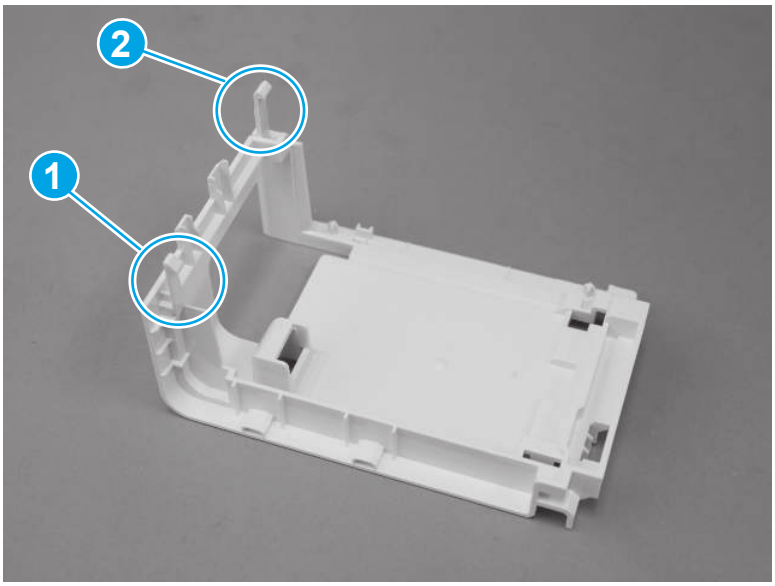
8. Remove the stapler stationary (inner) cover (M527/E52545/M528/E52645).

NOTE: Stapler models only.

a. Before proceeding, take note of the locations of the upper tab (callout 1) and the lower tab (callout 2) on the stapler stationary (inner) cover.

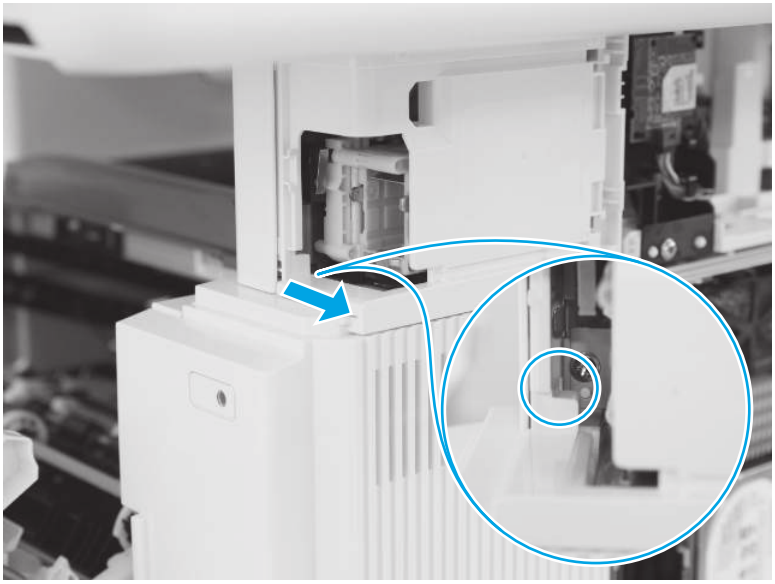
Reinstallation tip: When reinstalling the cover, take note of the location of the tabs.

Figure 1-631 Locate the tabs



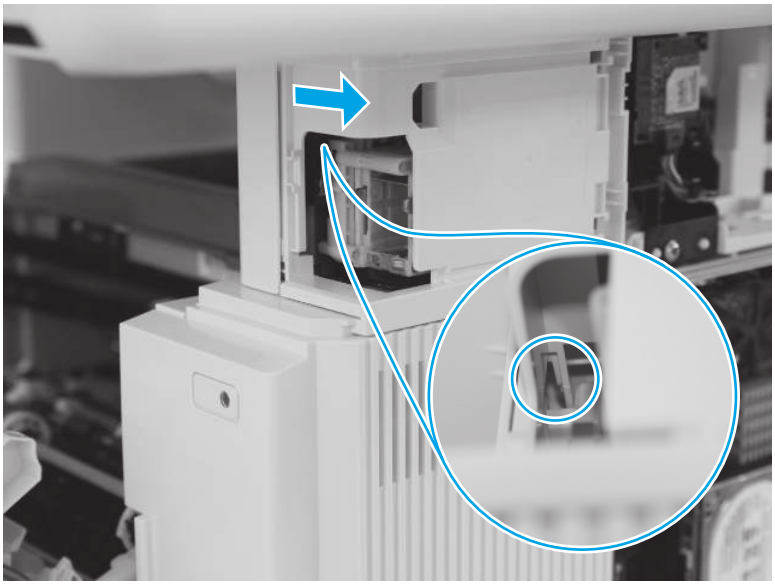
b. Use a long-shaft small flat-blade screwdriver to release the lower tab.

Figure 1-632 Release one tab



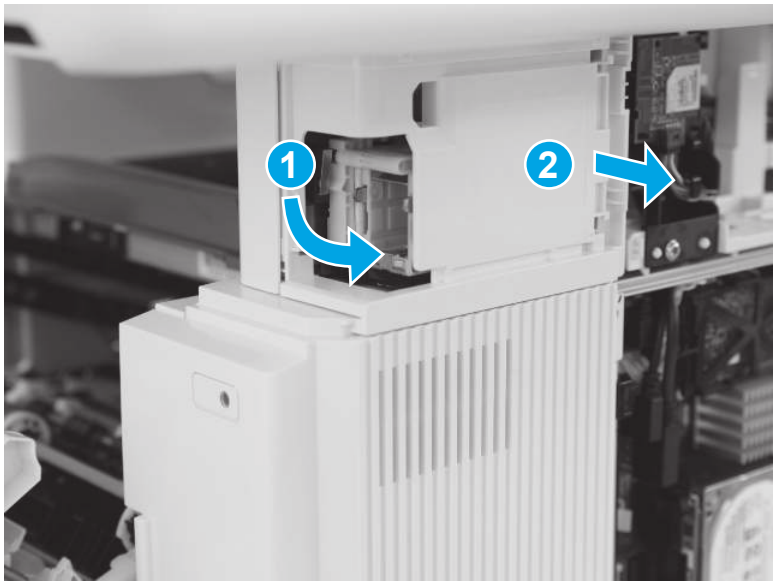
c. Use a long-shaft small flat-blade screwdriver to release the upper tab.

Figure 1-633 Release one tab



d. With the tabs disengaged the front of the cover is released. Rotate the front of the cover away from the printer (callout 1) to release the rear of the cover (callout 2), and then remove it.

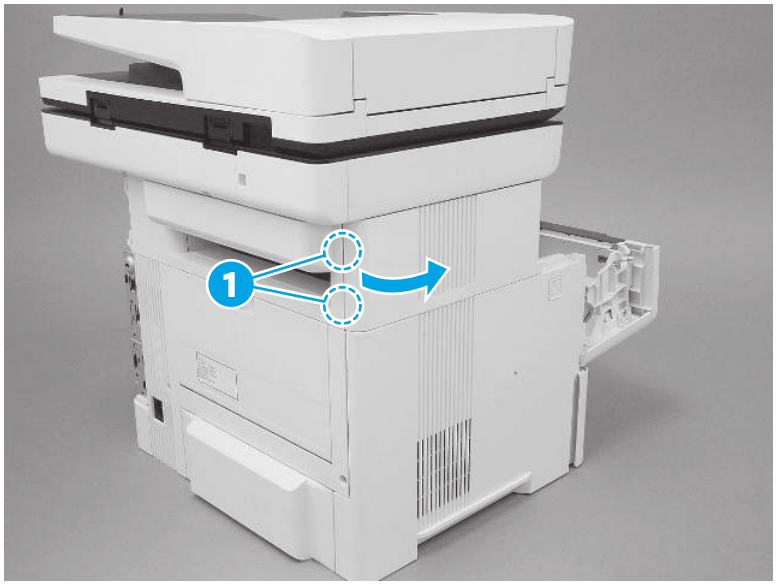
Figure 1-634 Remove the cover



9. Remove the top-left cover (M527/E52545M528/E52645).

a. Open the toner-cartridge door, release two tabs (callout 1), and then rotate the rear edge of the cover away from the printer.

Figure 1-635 Release two tabs



b. Continue to rotate the cover away from the printer to release two more tabs at the middle of the cover.

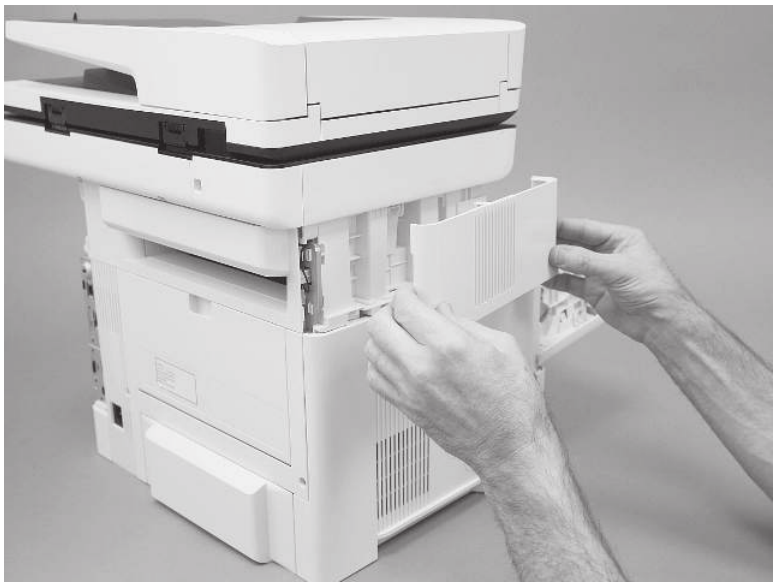
Figure 1-636 Release two tabs

c. Slide the cover toward the rear of the printer to release two bosses at the front of the cover.

Figure 1-637 Slide the cover

d. Remove the cover.

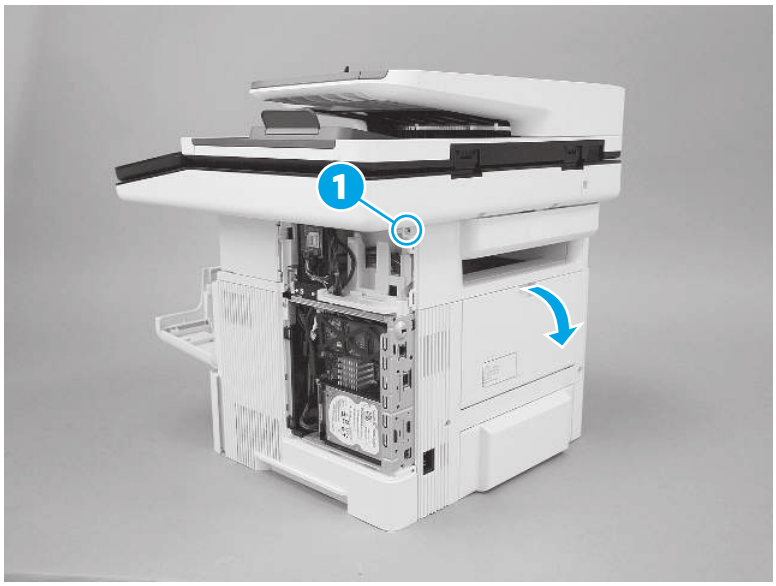
Figure 1-638 Remove the cover



10. Remove the top-rear cover (M527/E52545/M528/E52645).

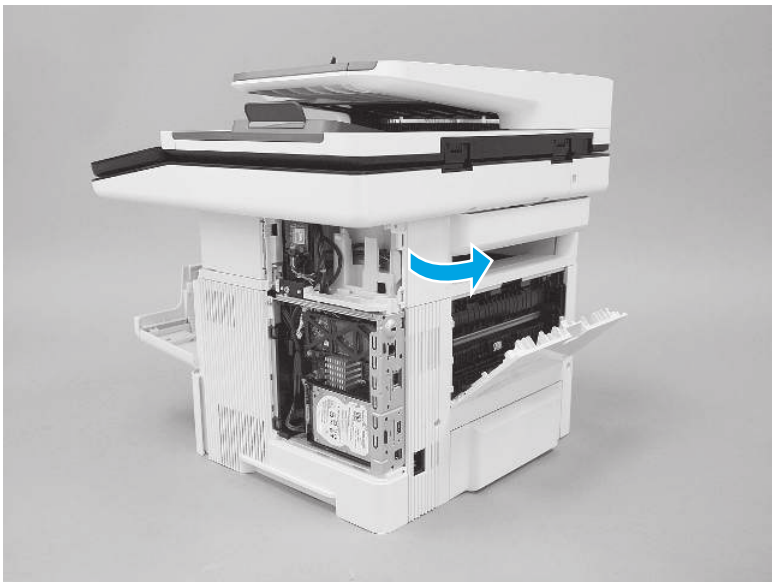
a. Remove one screw (callout 1), and then open the rear door.

Figure 1-639 Remove one screw



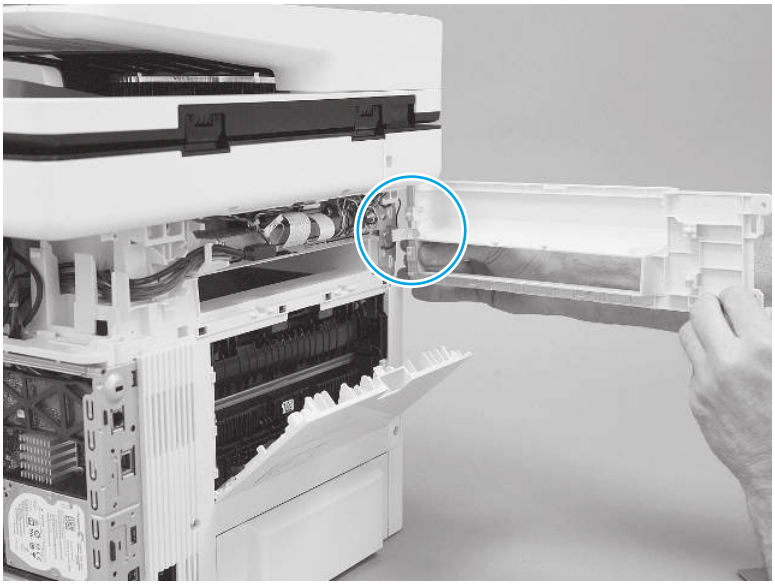
b. Rotate the exposed edge of the cover away from the printer (as shown).

Figure 1-640 Rotate the cover



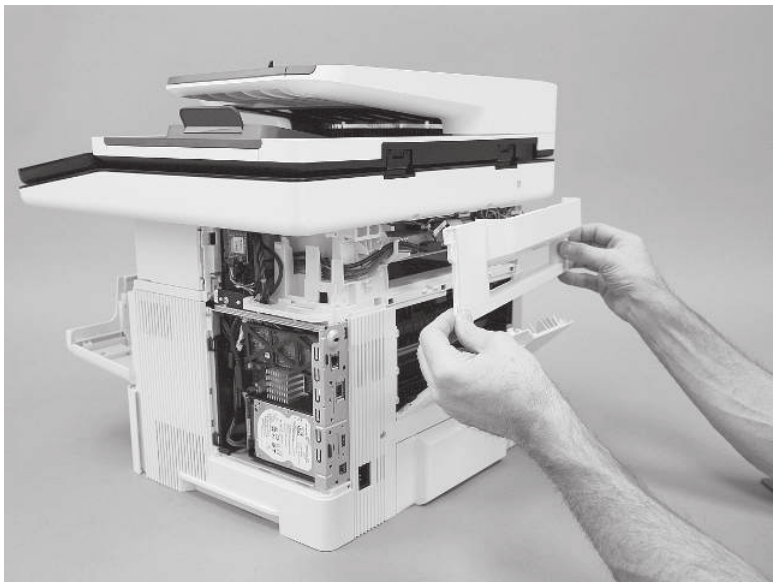
c. Continue to rotate the cover away from the printer to release one boss.

Figure 1-641 Release one boss



d. Remove the cover.

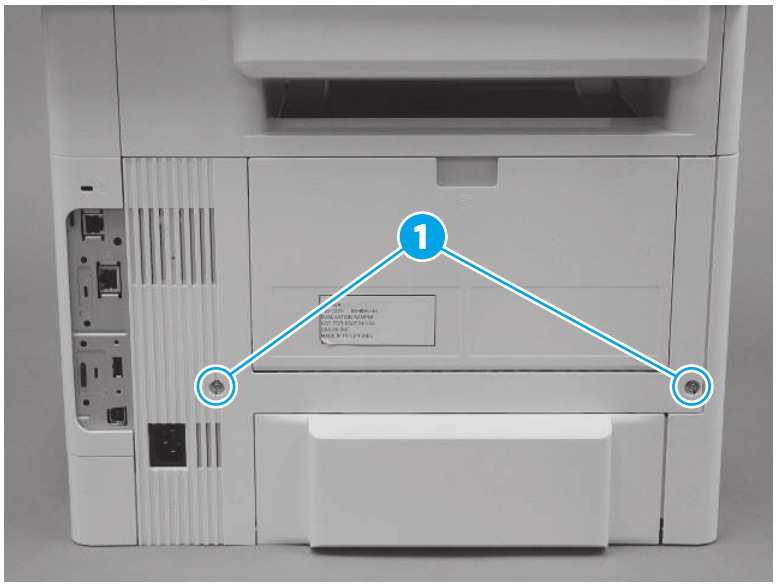
Figure 1-642 Remove the cover



11. Remove the rear door assembly.

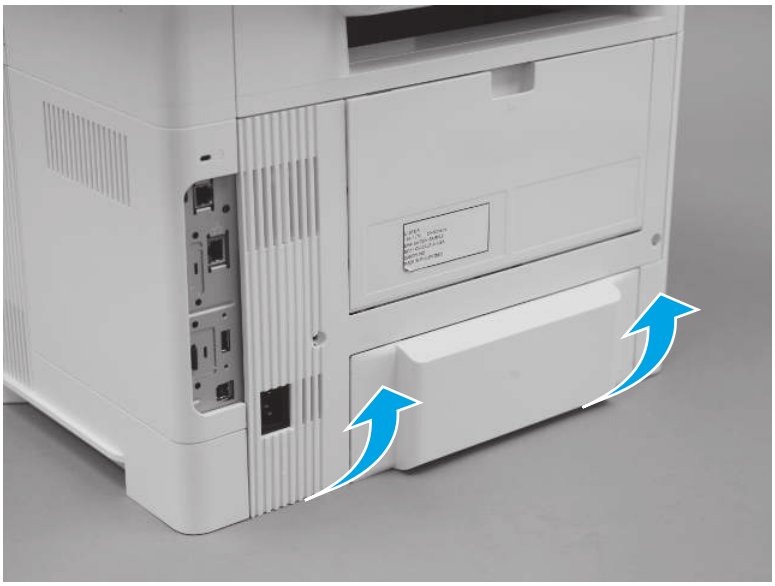
a. At the rear of the printer, remove two screws (callout 1).

Figure 1-643 Remove two screws



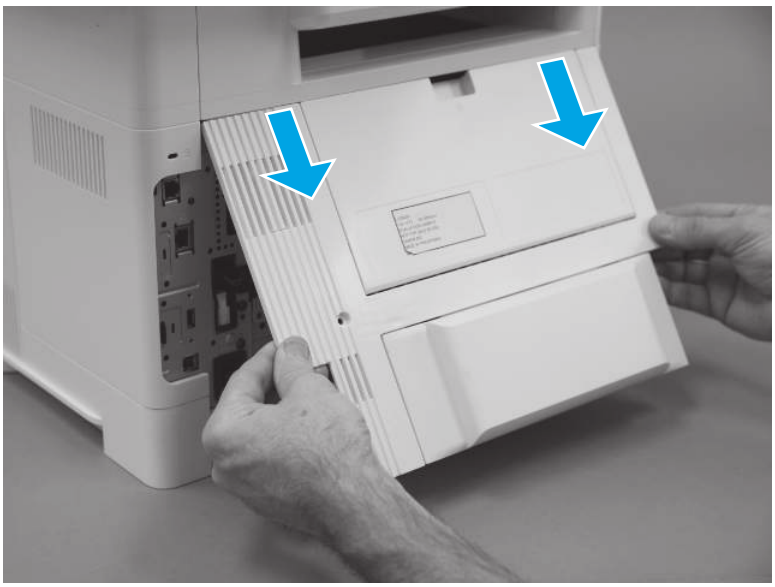
b. Rotate the bottom edge of the assembly away from the printer to release it.

Figure 1-644 Rotate the bottom of the cover



c. Pull down on the assembly to remove it.

Figure 1-645 Remove the cover



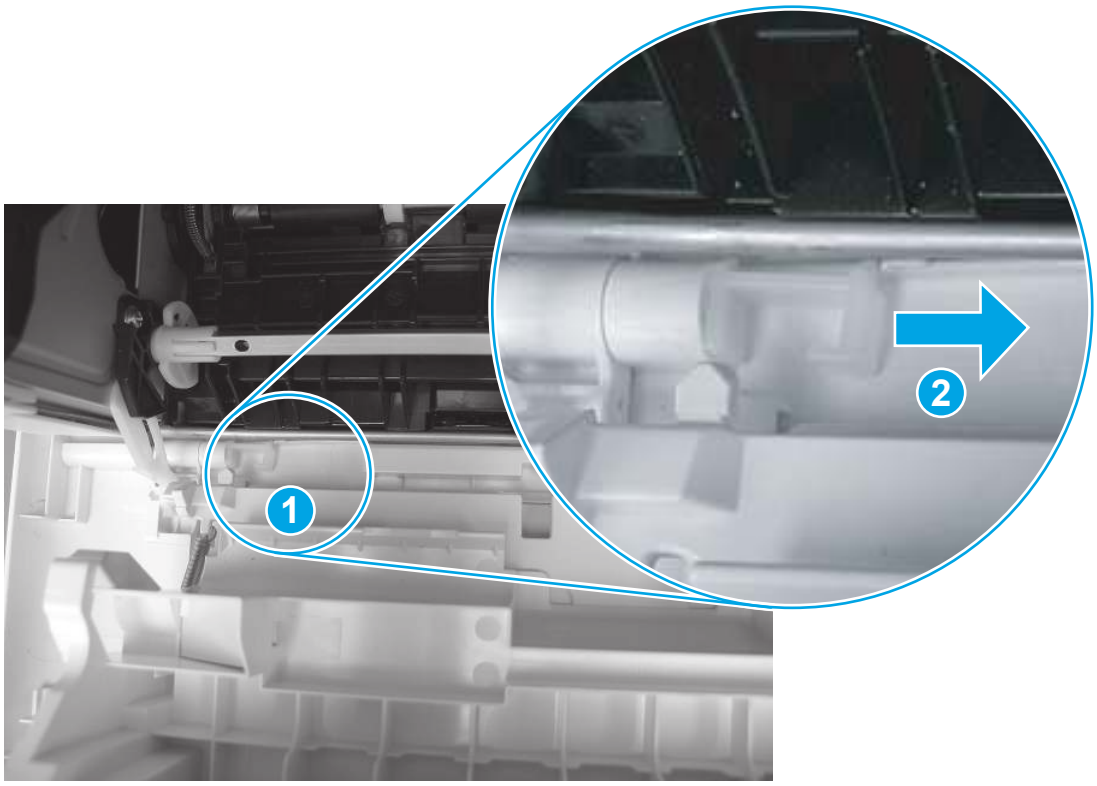
12. Remove the cartridge door assembly.

NOTE: If the toner cartridge was not removed prior to servicing the printer, remove it now.

a. Release the support shaft (callout 1), and then slide it toward the center of the door (callout 2).

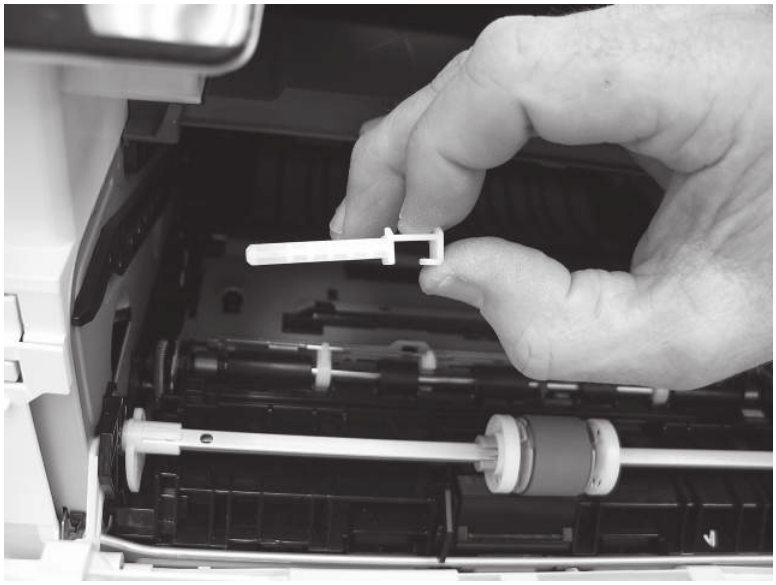
TIP: It might be easier to release the support shaft by using a small flat-blade screwdriver.

Figure 1-646 Release the support shaft



b. Remove the support shaft.

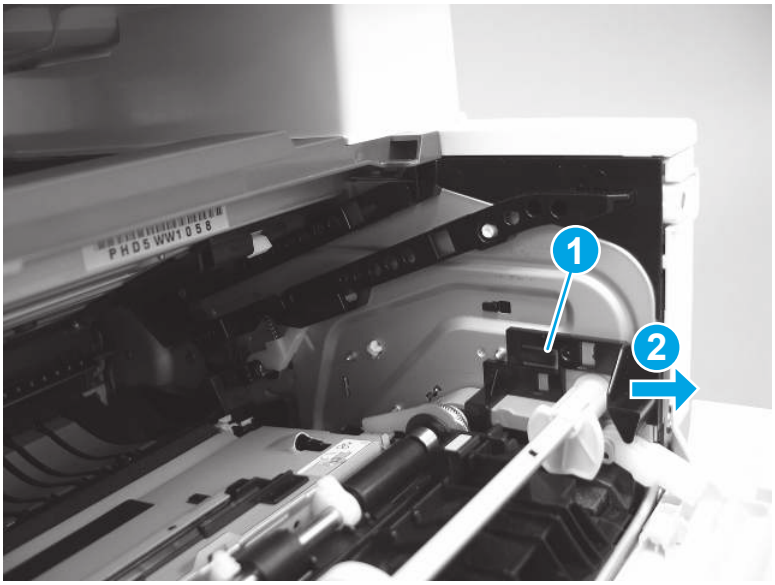
Figure 1-647 Remove the support shaft



c. Release one tab (callout 1), and then slide the guide out of the printer (callout 2).

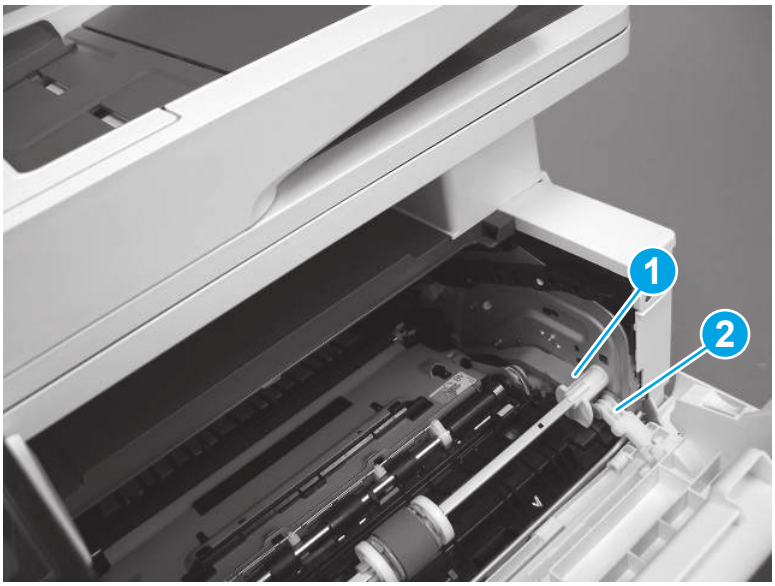
⚠ CAUTION: Be careful, the tab (callout 1) can be easily broken.

Figure 1-648 Remove the guide



d. Use a small flat-blade screwdriver to gently pry the white-plastic door arm (callout 1) off of the gray-plastic pressure-release link (callout 2) to release the door arm.

Figure 1-649 Release the pressure-release link



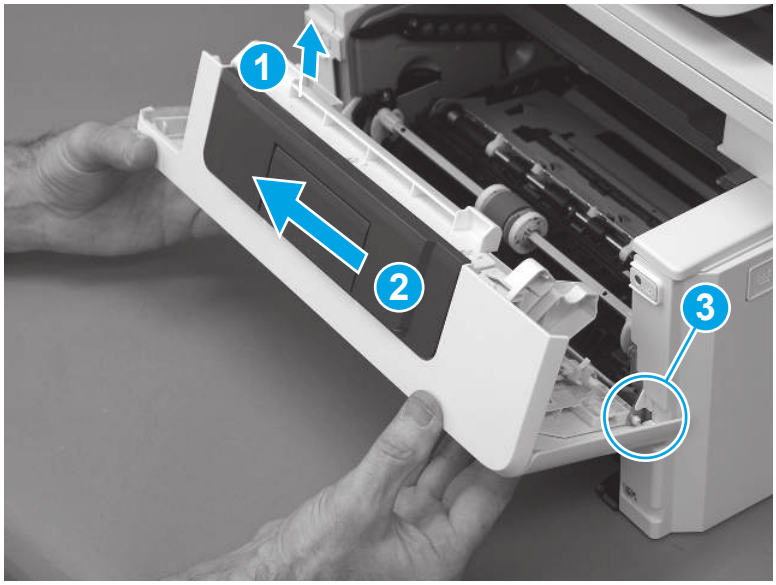
e. With the door in the partially closed position, slightly raise the left end (callout 1; raise it over the sheet-metal hinge boss), and then slide the door to the left (callout 2) to release the right hinge (callout 3).

⚠ CAUTION: The door is still attached to the printer by the left-side retainer arm. Do not attempt to completely remove the door.

Reinstallation tip: When reinstalling the door, there are two right-side hinge pins (not shown in callout 3).

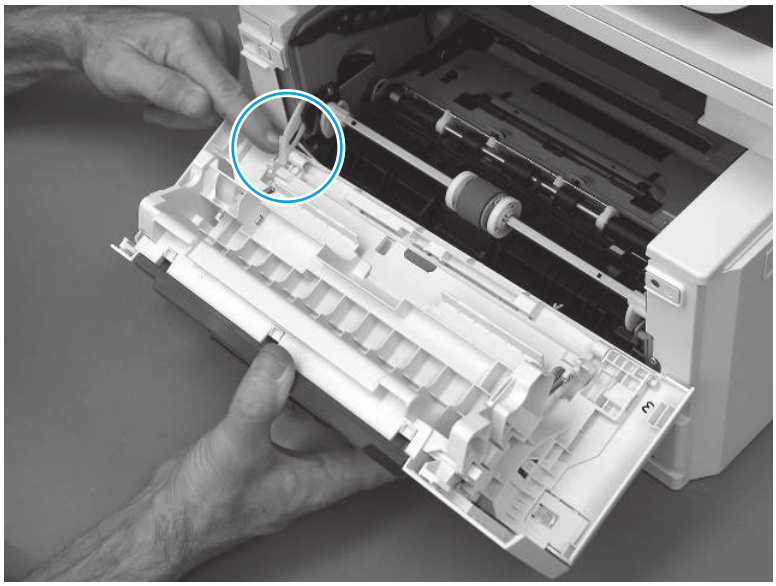
Keep a finger pressed on the left-side retainer arm so that it does not disengage from the door.

Figure 1-650 Release the door



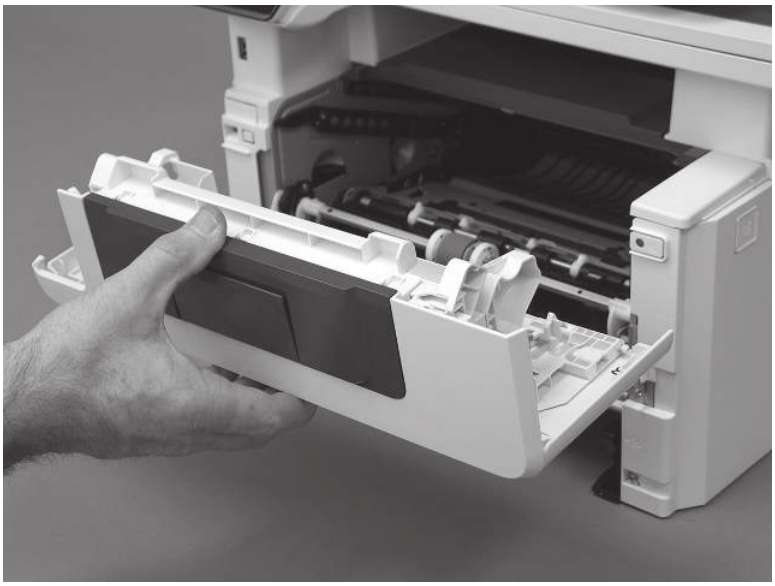
f. Rotate the door away from the printer until the keyed pin on the left-side retainer arm can disengage from the door.

Figure 1-651 Release the left-side retainer arm



g. Remove the door.

Figure 1-652 Remove the door



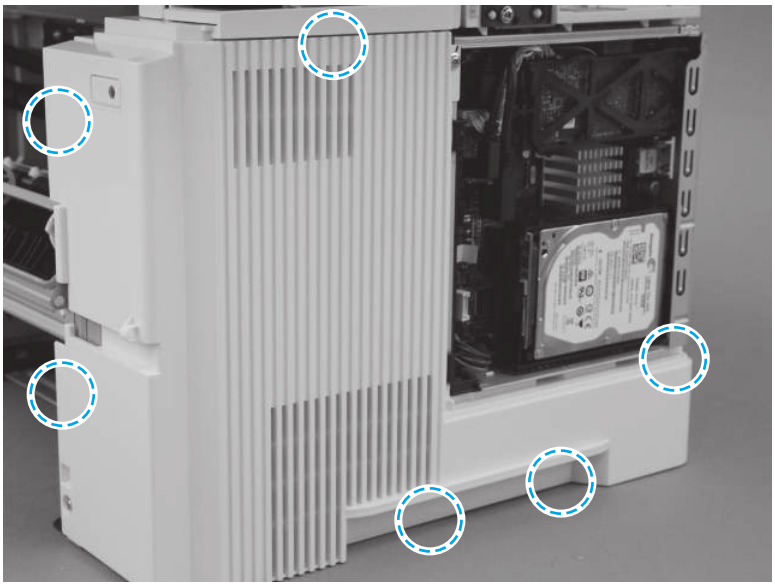
13. Remove the right cover.

IMPORTANT: The black-plastic cassette front and rear guides (located inside the tray cavity) can be easily dislodged. Do not lose the guides when the cover is removed or installed.

An MFP printer is shown in this section. However, the procedure is correct for all printer models.

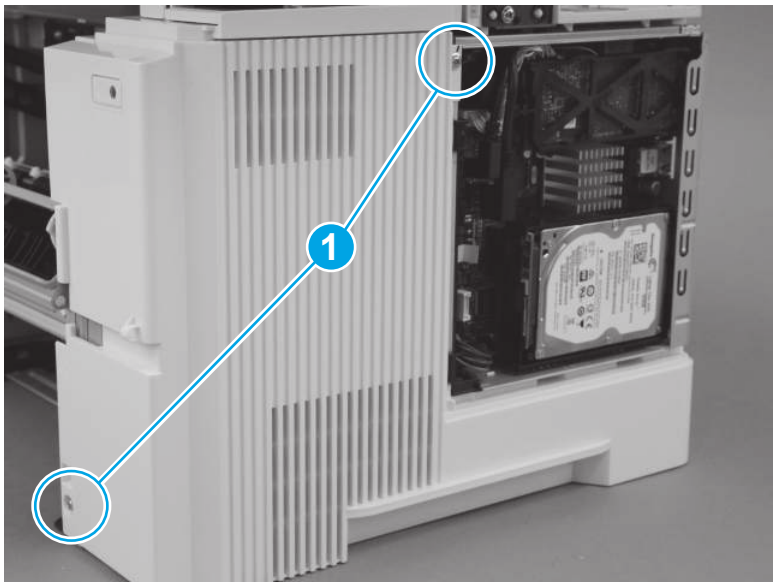
a. Before proceeding, take note of the location of the tabs and bosses on the inside of the cover.

Figure 1-653 Locate the tabs and bosses



b. Remove two screws (callout 1).

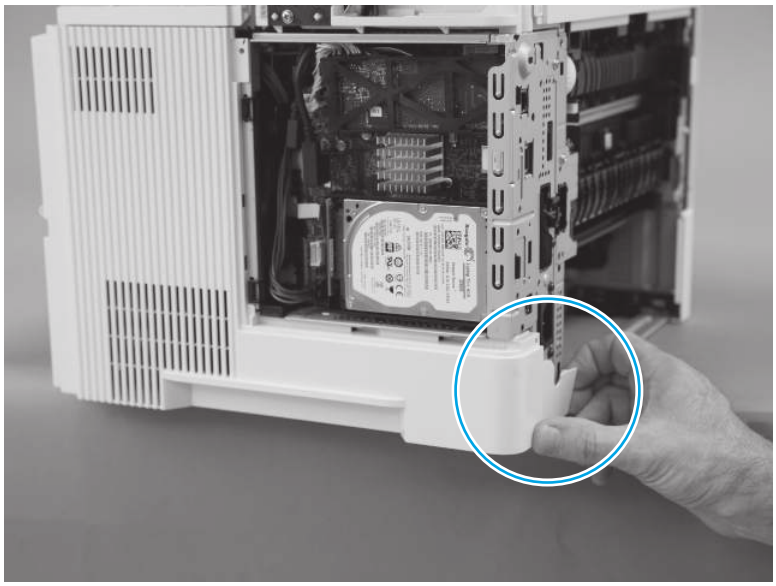
Figure 1-654 Remove two screws



c. At the rear of the printer, release one boss.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

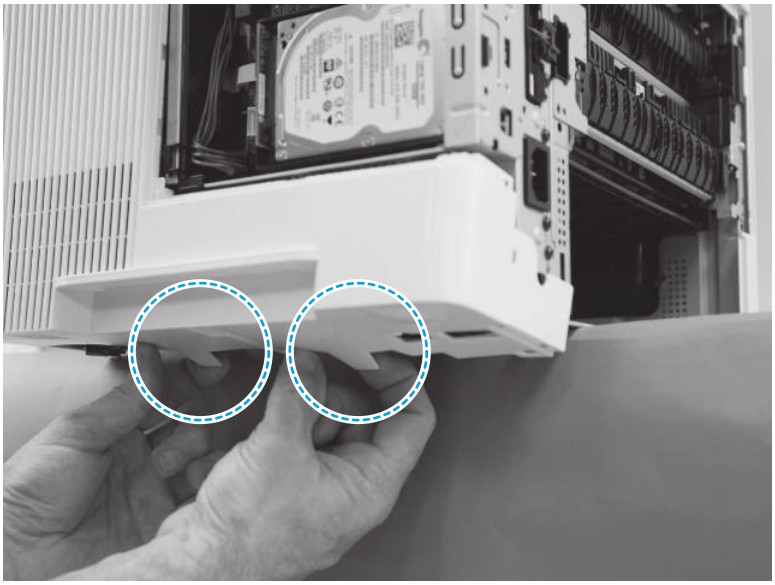
Figure 1-655 Release one boss



d. At the bottom edge of the cover, release two bosses.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

Figure 1-656 Release two bosses

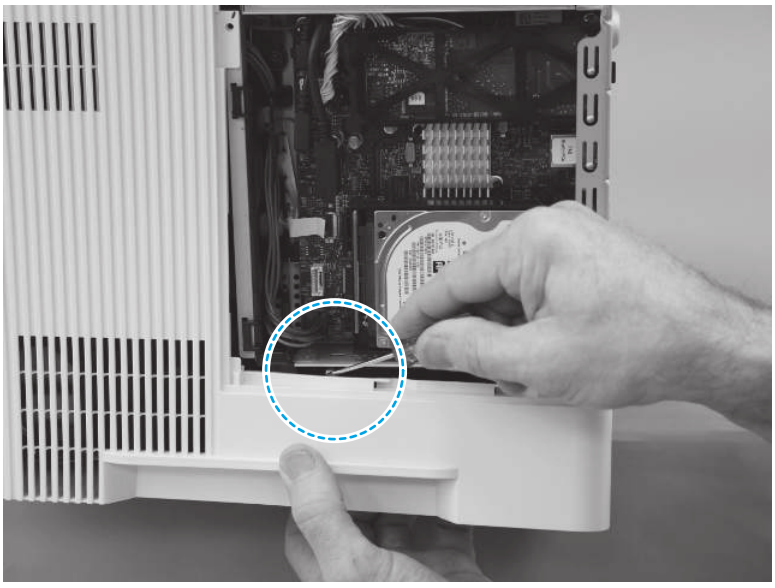


e. Near the formatter, release one tab.

CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

TIP: Hold the bottom of the cover away from the printer, and then use a small flat-blade screw driver to easily release this tab.

Figure 1-657 Release one tab

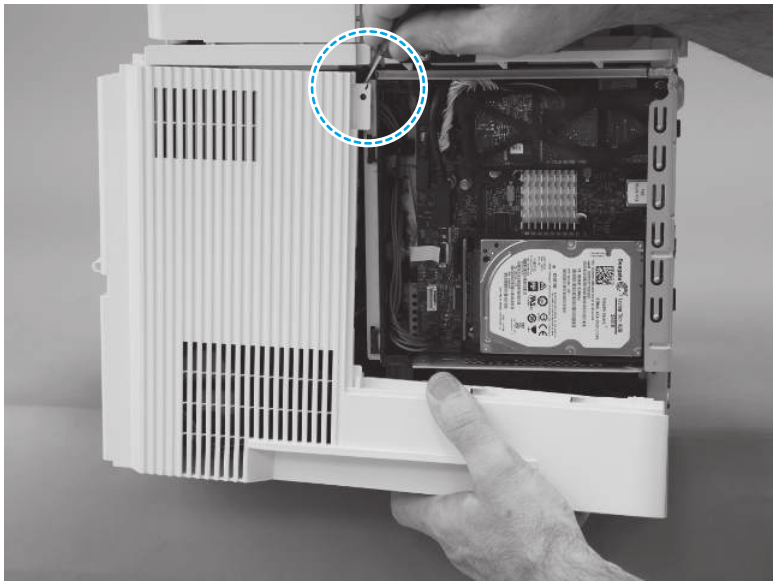


f. At the top rear edge of the cover, release one tab.

CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

TIP: Use a small flat-blade screw driver to easily release this tab.

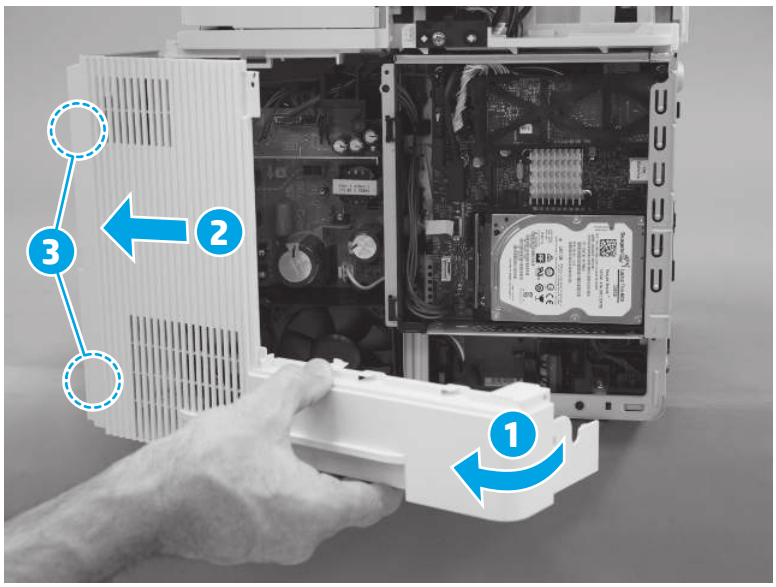
Figure 1-658 Release one tab



g. Rotate the rear of the cover away from the printer (callout 1), slide the cover toward the front of the printer (callout 2) to release two bosses (callout 3), and then remove the cover.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

Figure 1-659 Remove the cover



14. Remove the left cover.

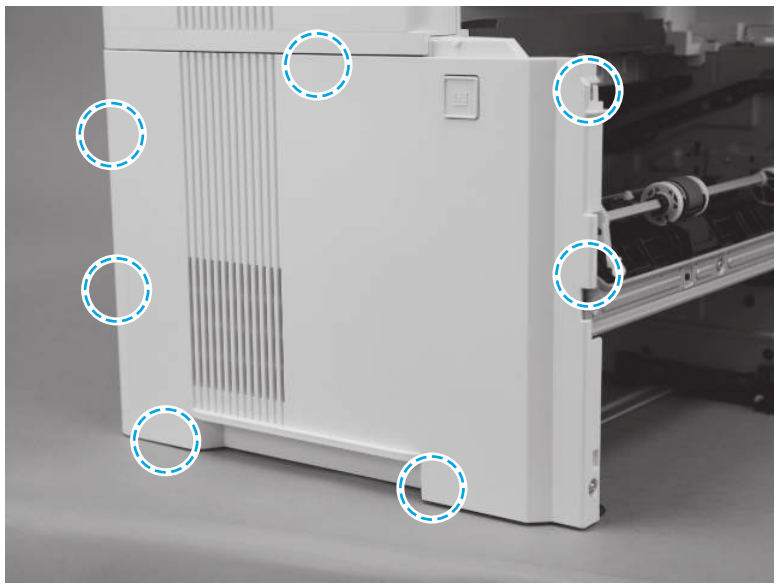
IMPORTANT: The black-plastic cassette front and rear guides (located inside the tray cavity) can be easily dislodged. Do not lose the guides when the cover is removed or installed.

NOTE: An MFP printer is shown in this section. However, the procedure is correct for all printer models.

a. Before proceeding, take note of the location of the tabs and bosses on the inside of the cover.

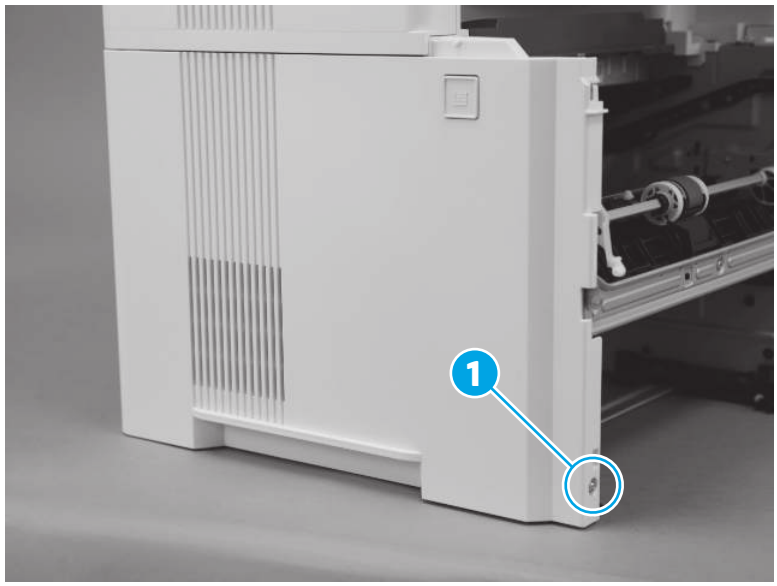
Reinstallation tip: When reinstalling the cover, take note of the location of the tabs and bosses on the inside of the cover.

Figure 1-660 Locate of the tabs and bosses



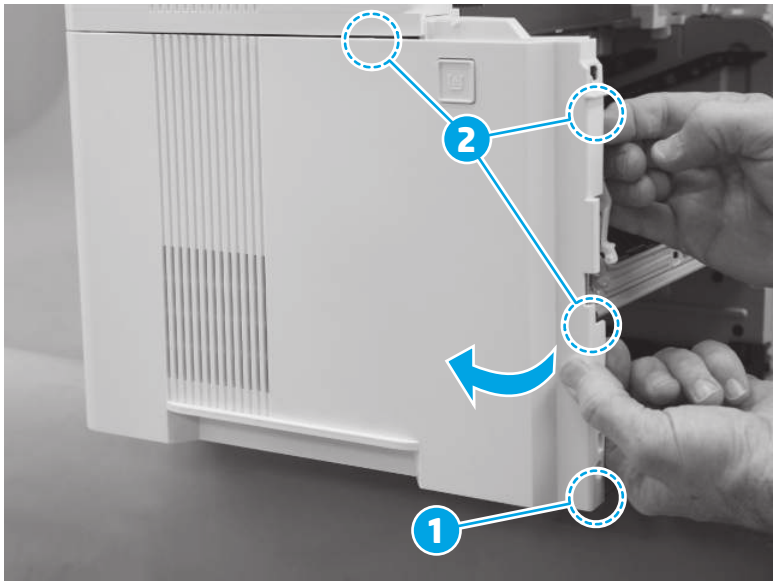
b. Remove one screw (callout 1).

Figure 1-661 Remove one screw



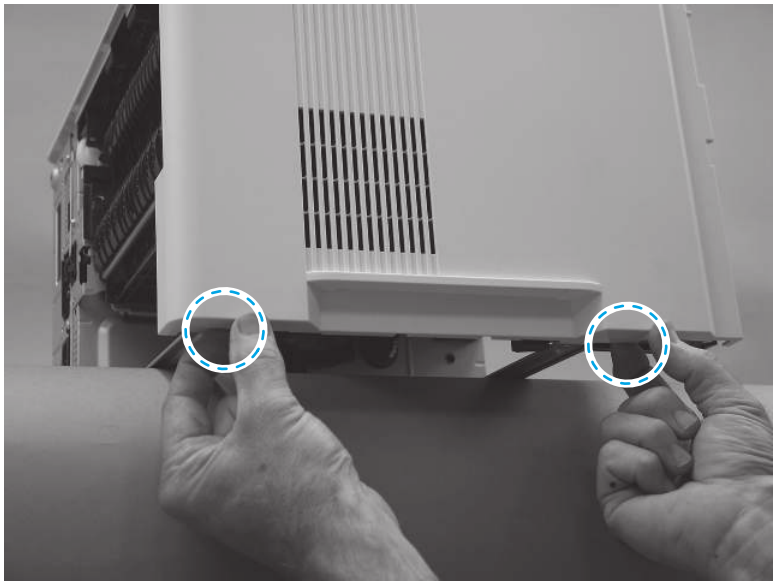
c. At the front of the printer, release one boss (callout 1), and then rotate the front edge of the cover away from the printer to release three tabs (callout 2).

Figure 1-662 Release one boss and three tabs



d. At the bottom edge of the cover, release two tabs.

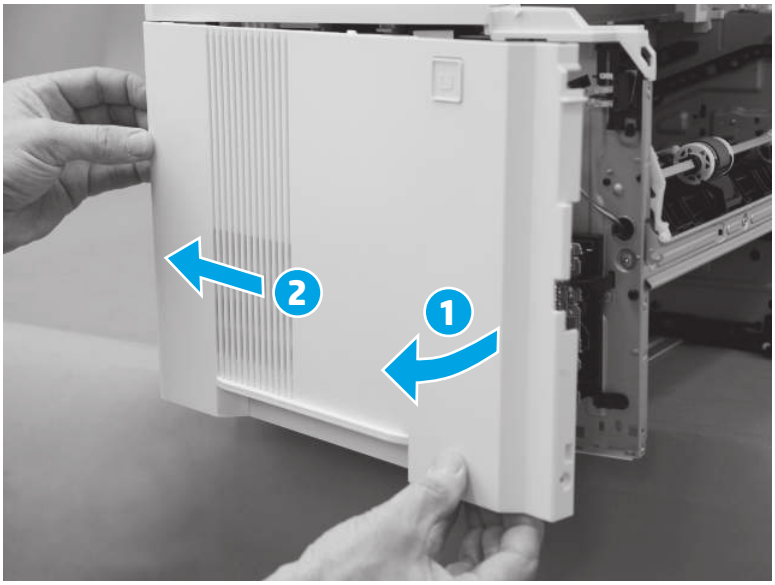
Figure 1-663 Release two tabs



e. Continue to rotate the front edge of the cover away from the printer (callout 1), and then slide the cover toward the rear of the printer (callout 2) to remove it.

NOTE: If the cover is difficult to rotate or slide as shown below, make sure that the bottom tabs (released in the previous step) are completely disengaged from the chassis.

Figure 1-664 Remove the cover



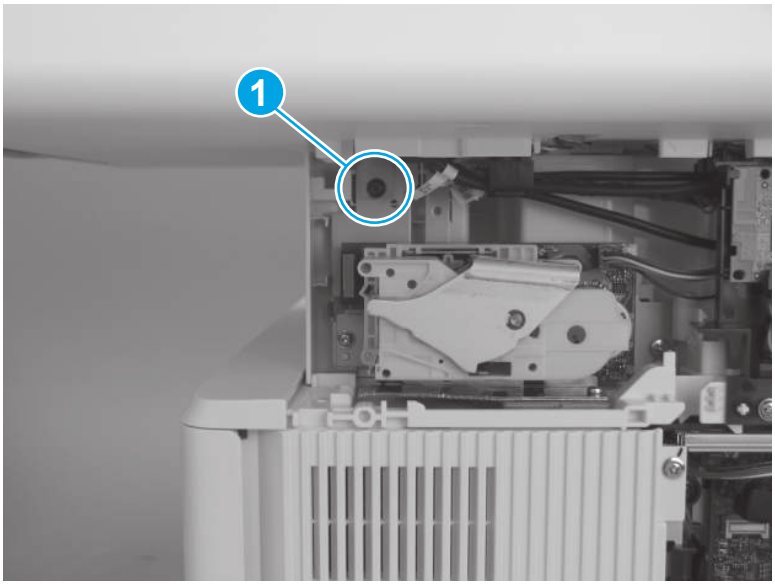
15. Remove the integrated-scanner assembly (ISA) (M527/E52545/M528/E52645).

NOTE: The ISA includes the document feeder, sub-scanner assembly (SSA), and the scanner control board (SCB).

a. Remove one screw (callout 1).

IMPORTANT: This screw fastens the ISA ground plate to the printer chassis. Do not lose this screw.

Figure 1-665 Remove one screw

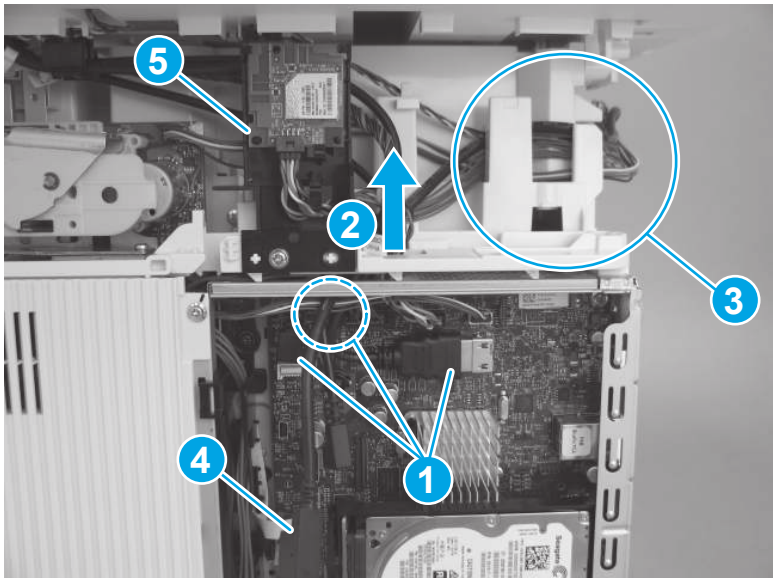


b. Disconnect three connectors (callout 1), pass the wire harnesses and cables through the opening in the cover (callout 2), and then release them from the retainers (callout 3).

NOTE: One cable (callout 4) does not need to pass through the opening in the cover.

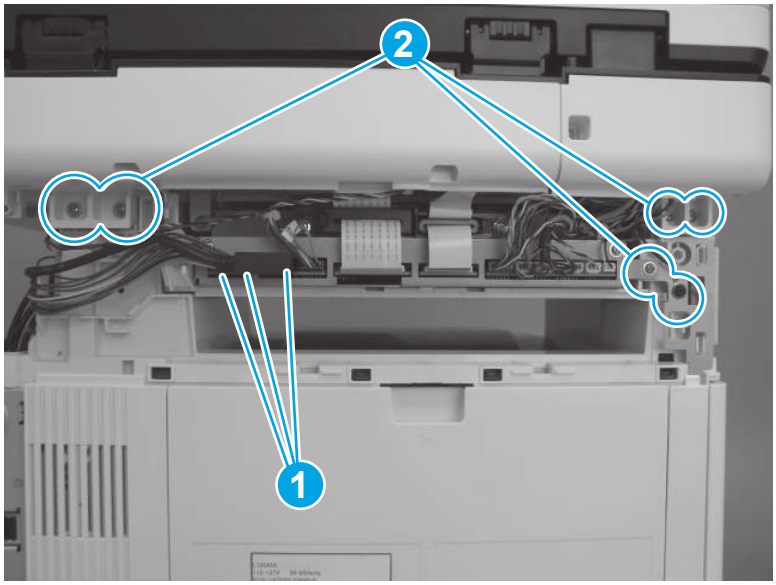
TIP: It might be easier if the WiFi PCA and holder (not all models; callout 5) is detached from the printer, and then moved out of the way.

Figure 1-666 Disconnect cables and connectors



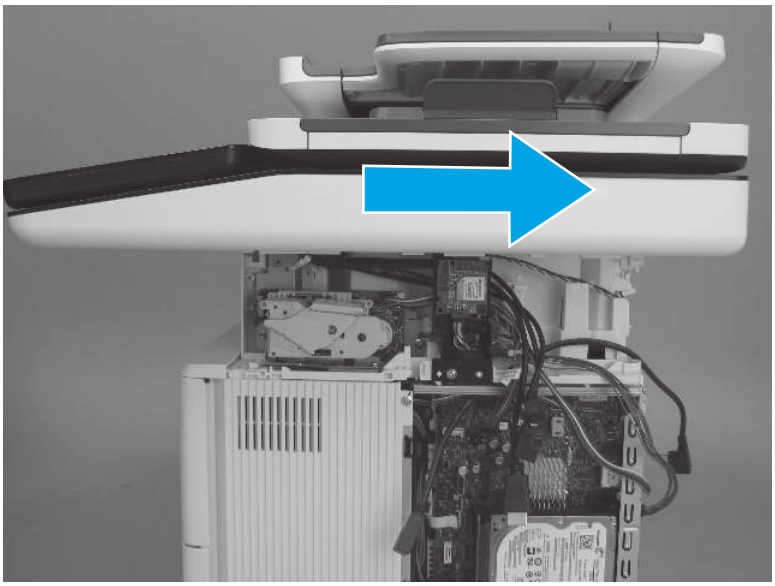
c. Disconnect three connectors (callout 1), and then remove six screws (callout 2).

Figure 1-667 Disconnect connectors and remove screws



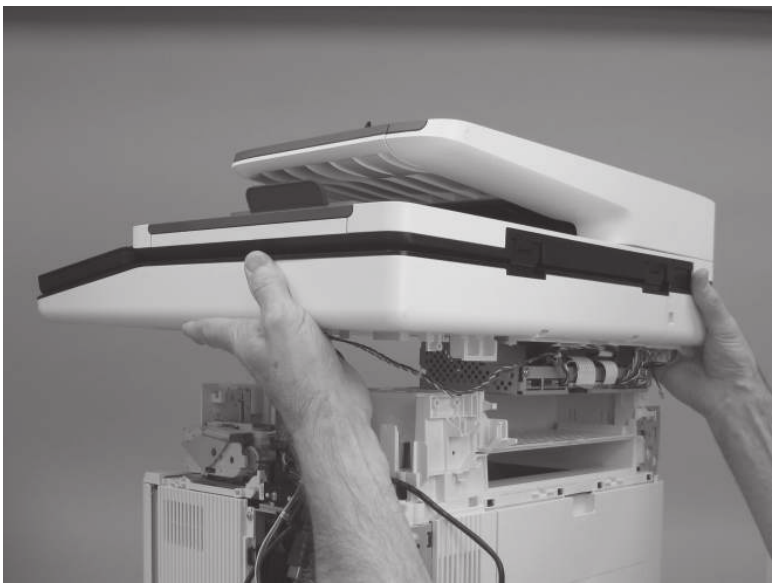
d. Slightly slide the ISA towards the back of the printer to release it.

Figure 1-668 Slide the ISA towards the back of the printer



e. Remove the ISA.

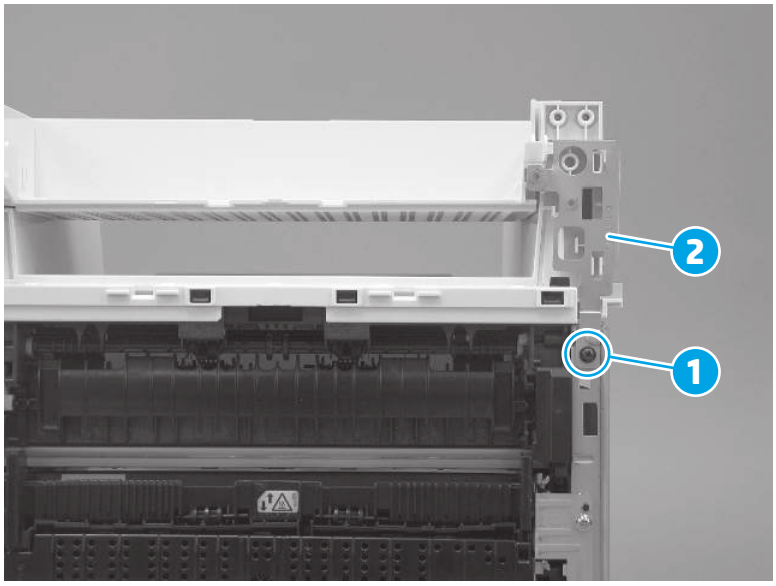
Figure 1-669 Remove the ISA



16. Remove the top cover (M527/E52545/M528/E52645).

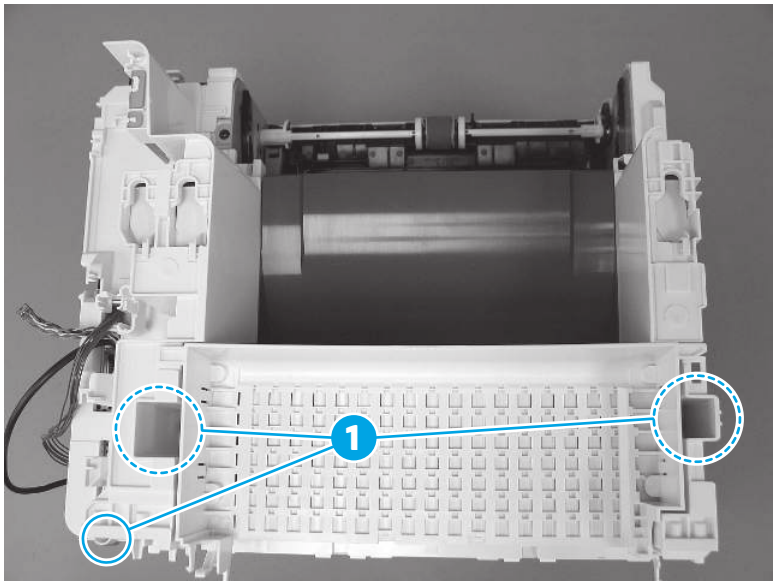
a. At the front right of the printer, remove one screw (callout 1), and then remove the sheet-metal plate (callout 2).

Figure 1-670 Remove one screw and the plate



b. At the top rear of the printer, remove three screws (callout 1).

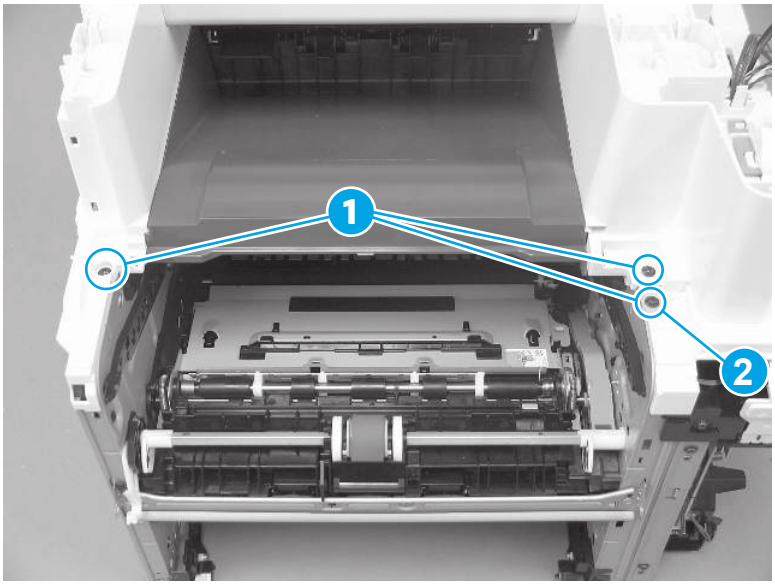
Figure 1-671 Remove three screws



c. At the top front of the printer, remove three screws (callout 1).

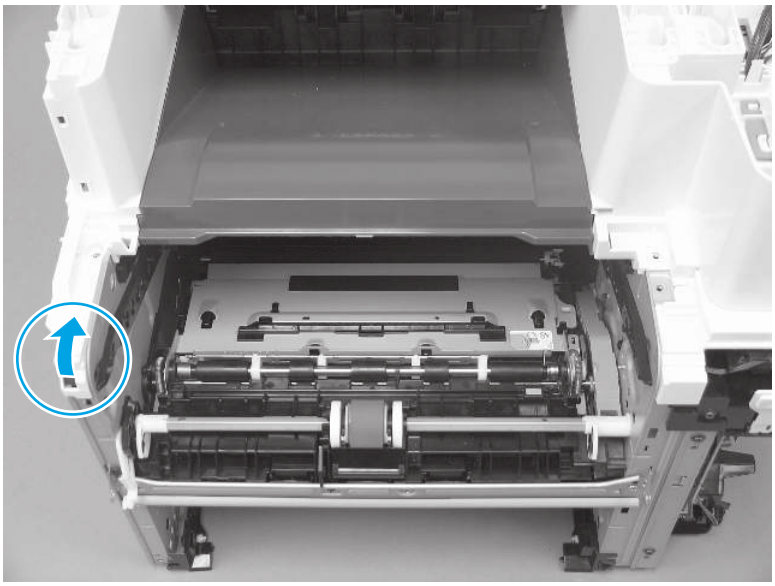
NOTE: The screw (callout 2) on the lower-right portion of the cover is a different color than the other two screws, and is surrounded by sheet-metal. It might appear that this screw does not need to be removed. Remove this screw.

Figure 1-672 Remove three screws



d. At the front left of the printer, release one boss.

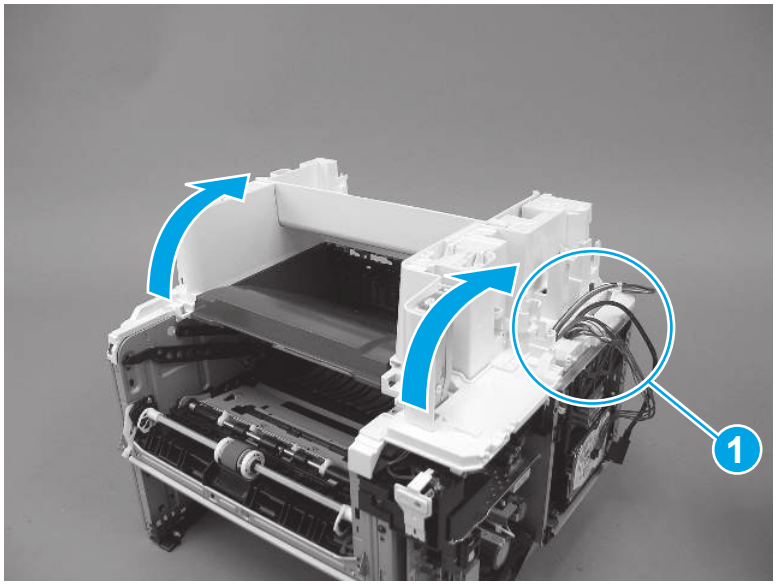
Figure 1-673 Release one boss



e. Rotate the front of the cover up and away from the printer.

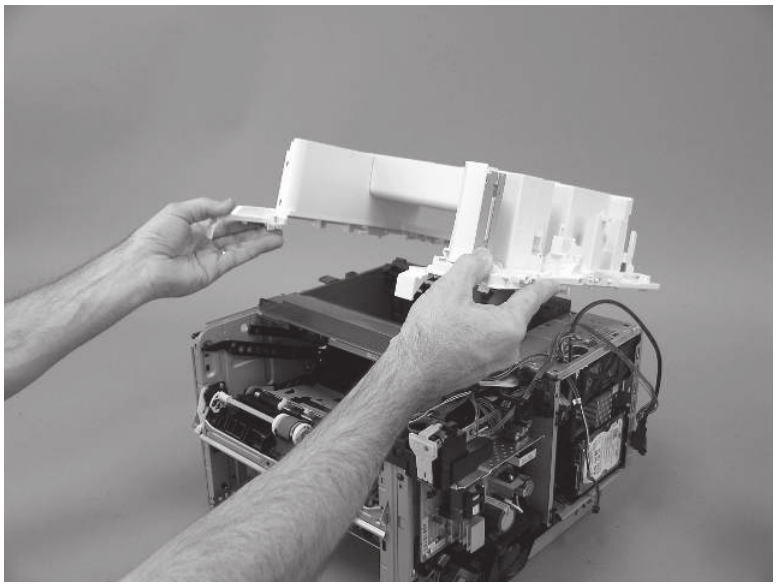
⚠ CAUTION: As the cover is rotated up, carefully pass the cables and wire harnesses the hole in the cover (callout 1).

Figure 1-674 Rotate the front of the cover up



f. Remove the cover.

Figure 1-675 Remove the cover

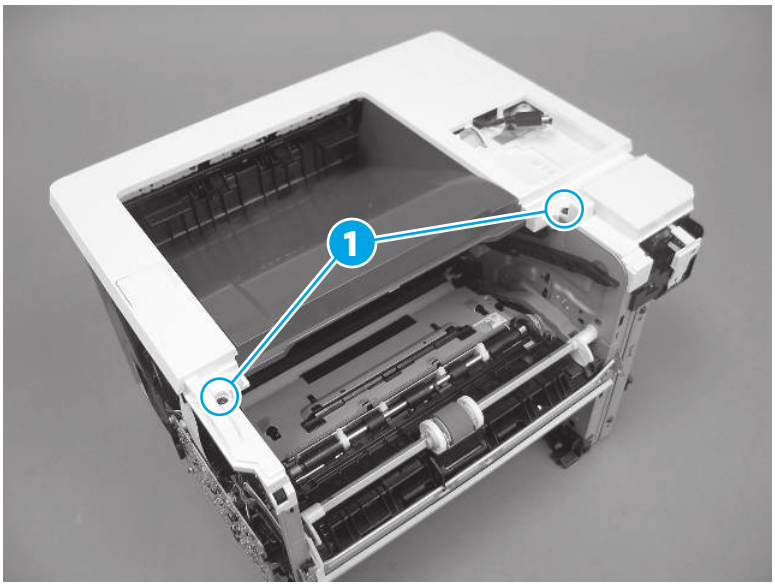


17. Remove the top cover (M501/M506/E50045/M507/E50145).

    The M506x/E50045x is shown in this procedure. However, the steps are correct for all M506/E50045/M507/E50145 models and the M501 printer.

a. Remove two screws (callout 1).

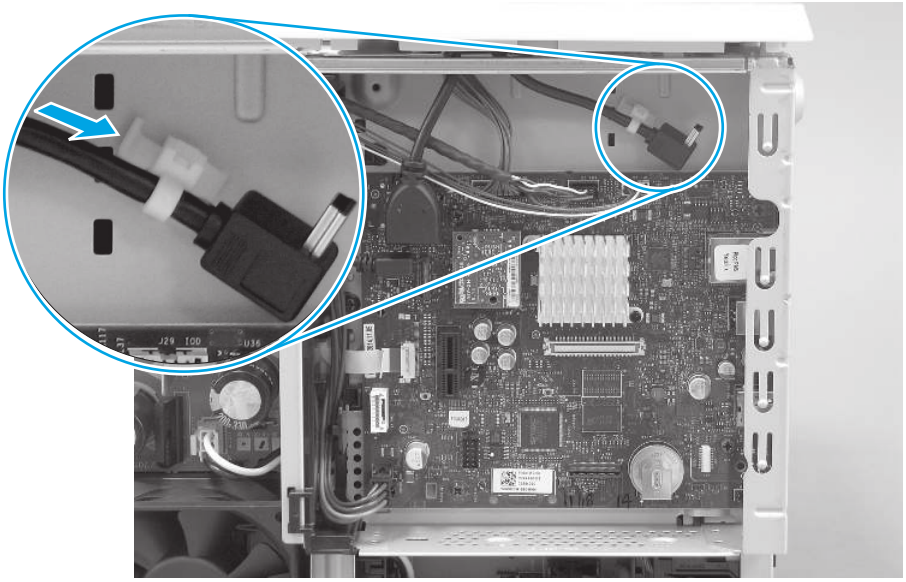
Figure 1-676 Remove two screws



b. **M506/E50045/ only**: Release one cable retainer from the chassis.

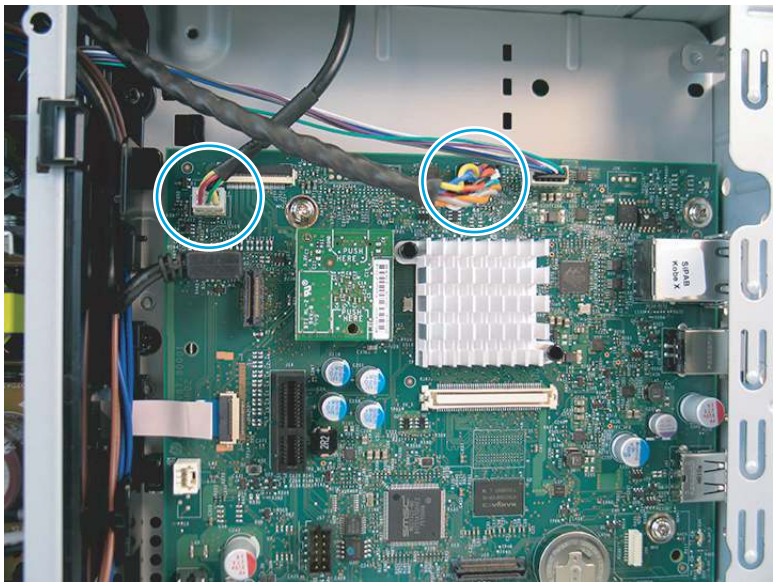
TIP: Depress the tab on the retainer to release it.

Figure 1-677 Release one cable retainer



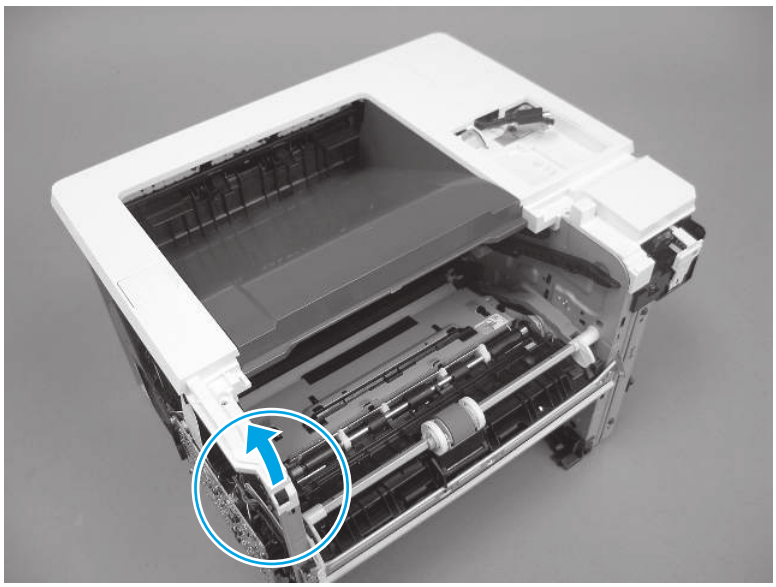
c. **M507/E50145 only**: Disconnect two connectors.

Figure 1-678 Disconnect two connectors



d. Release one boss.

Figure 1-679 Release one boss

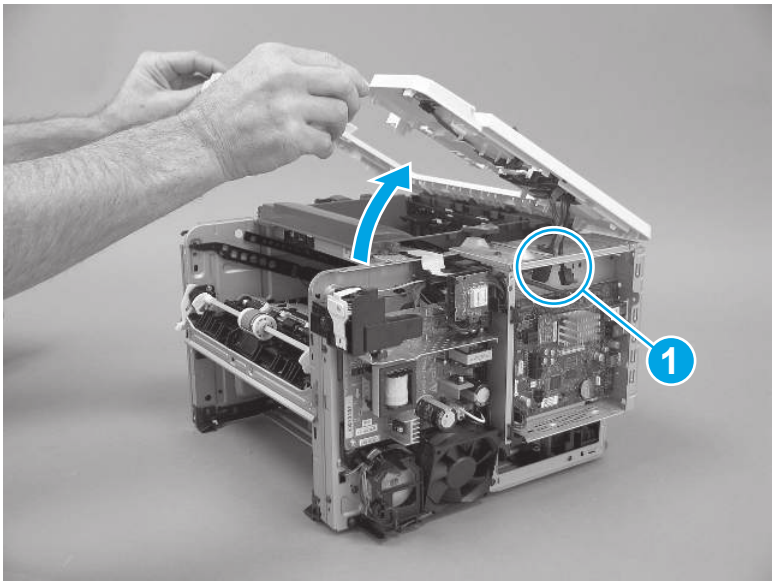


e. **M506/E50045/ only**: Rotate the front of the cover up and away from the printer, and then remove the cover.

⚠ CAUTION: **M506x/E50045x only**: As the cover is rotated up, carefully pass the cables the hole in the chassis (callout 1).

NOTE: **LCD control panel models only**: Disconnect the control panel before removing the cover.

Figure 1-680 Remove the cover (M506/E50045)



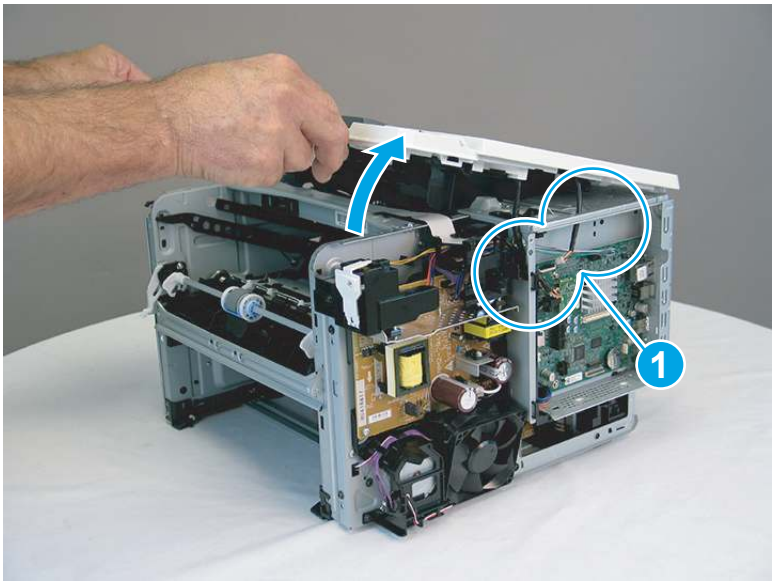
f. M507/E50145only: Rotate the front of the cover up and away from the printer, and then remove the cover.

CAUTION: M507x/E50145x only: As the cover is rotated up, carefully pass the cables the hole in the chassis (callout 1).

IMPORTANT: If the top cover is being replaced, make sure to transfer the WiFi PCA from the discarded cover to the replacement cover.

NOTE: LCD control panel models only: Disconnect the control panel before removing the cover.

Figure 1-681 Remove the cover (M507/E50145)

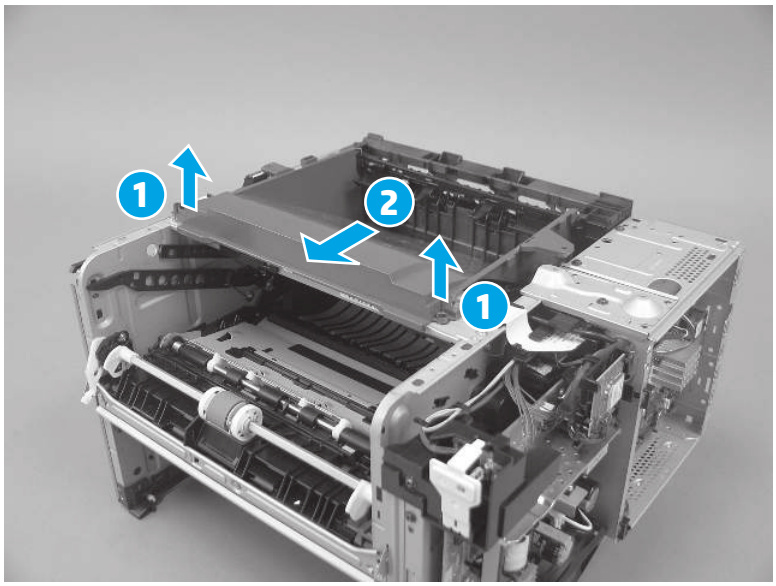


18. Remove the paper delivery tray (output bin).

NOTE: A SFP printer is shown in this section. However, the procedure is correct for all printer models.

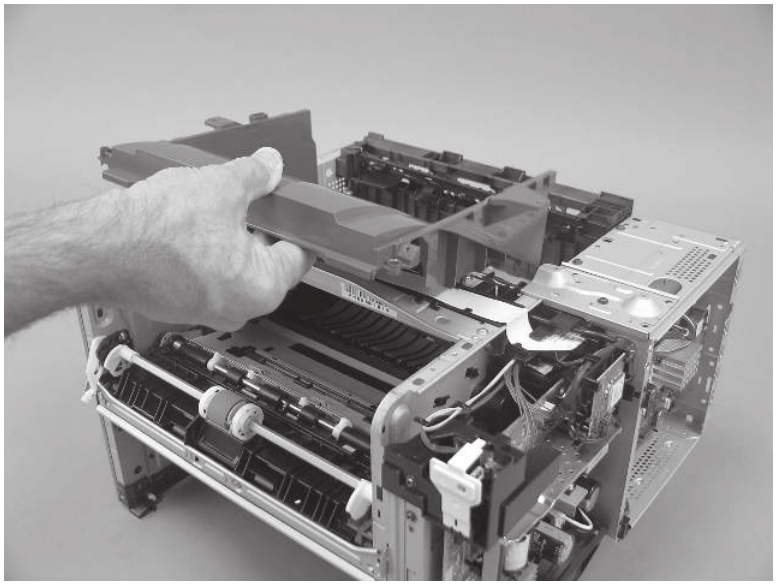
a. Release two tabs (callout 1), and then slide the cover toward the front of the printer (callout 2).

Figure 1-682 Release two tabs



b. Remove the bin.

Figure 1-683 Remove he bin

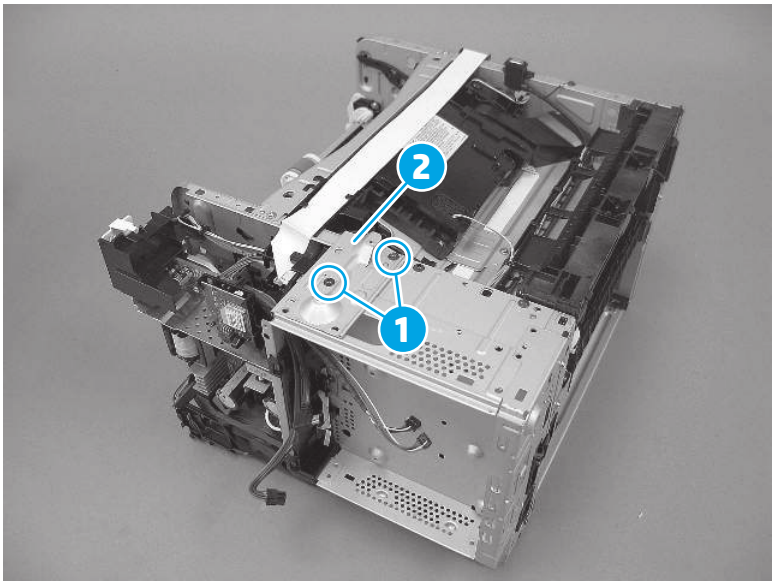


19. Remove the formatter case.

a. **M506/E50045/M507/E50145 only**: Remove two screws (callout 1), and then remove the sheet-metal plate (callout 2).

NOTE: **M507/E50145 only**: The M507/E50145 sheet-metal plate includes a separate black plastic cable guide (not shown). Do not lose the guide when removing the plate.

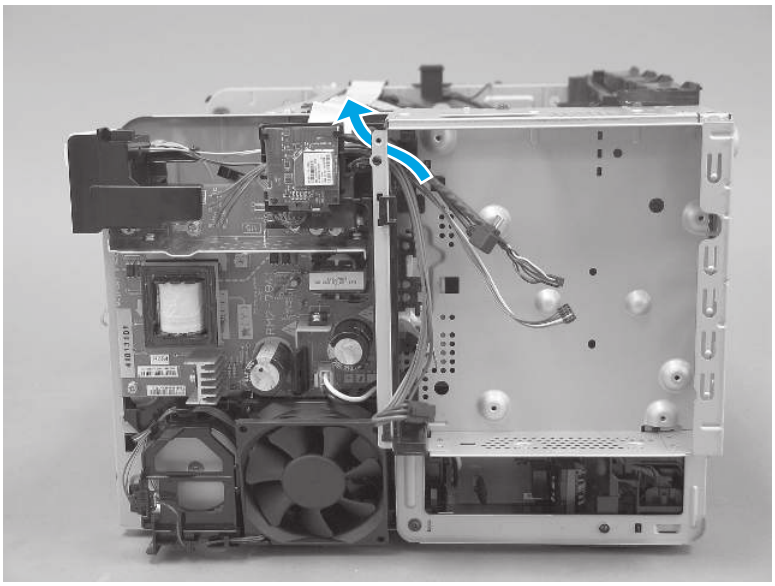
Figure 1-684 Remove the sheet-metal plate



b. Carefully pass all cables and wire harnesses through the opening in the formatter case.

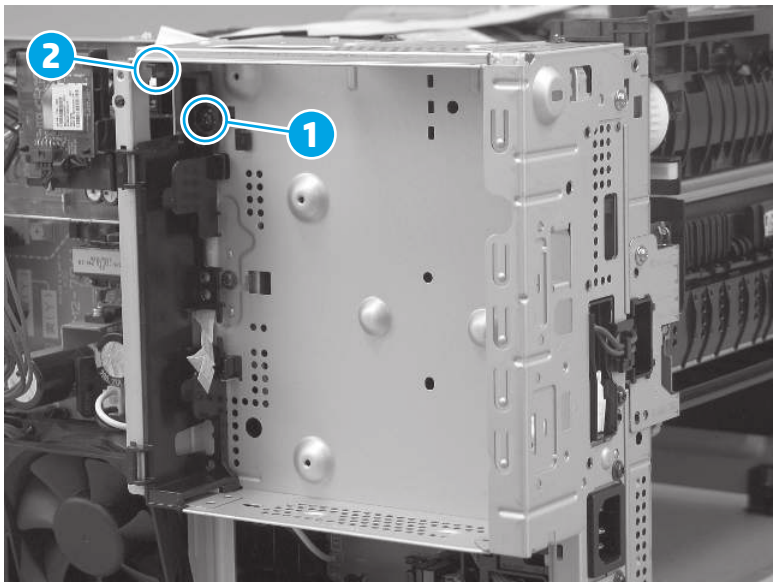
NOTE: A SFP printer is shown in this section. However, the procedure is correct for all printer models.

Figure 1-685 Pass all cables and wire harnesses through the opening



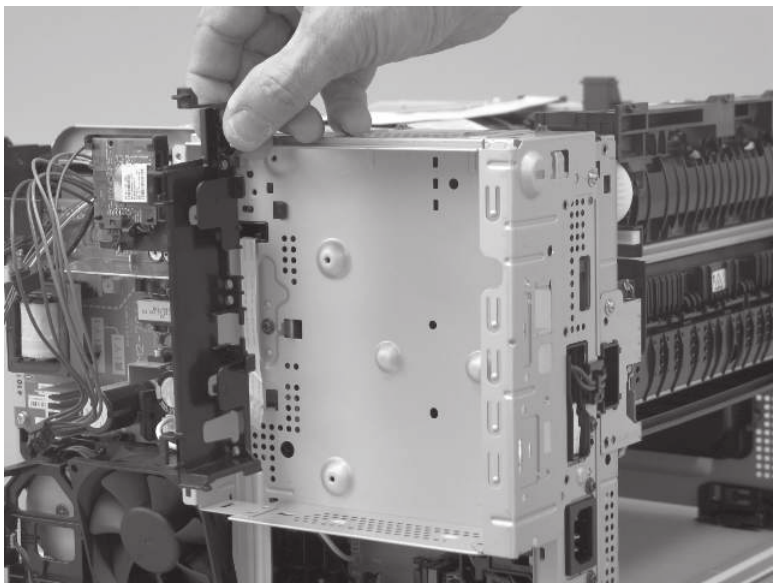
c. Remove one screw (callout 1), and then push down on one tab (callout 2) to release it.

Figure 1-686 Remove one screw



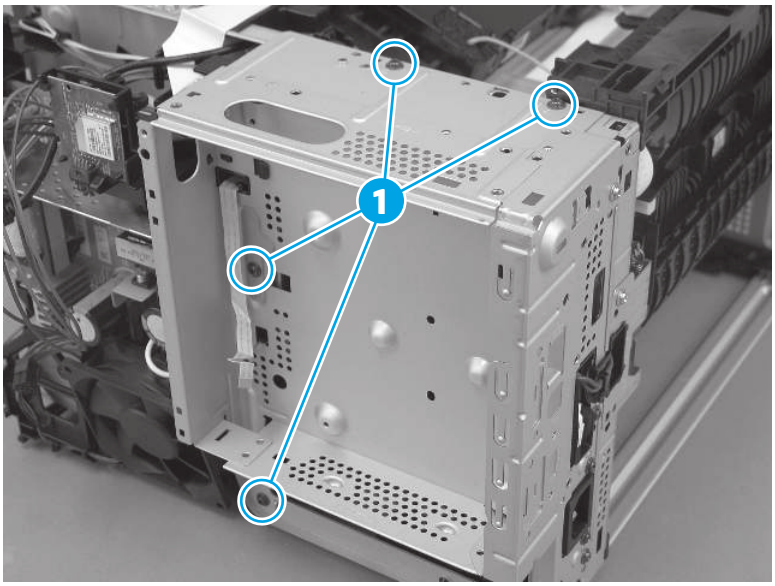
d. Remove the guide.

Figure 1-687 Remove the guide



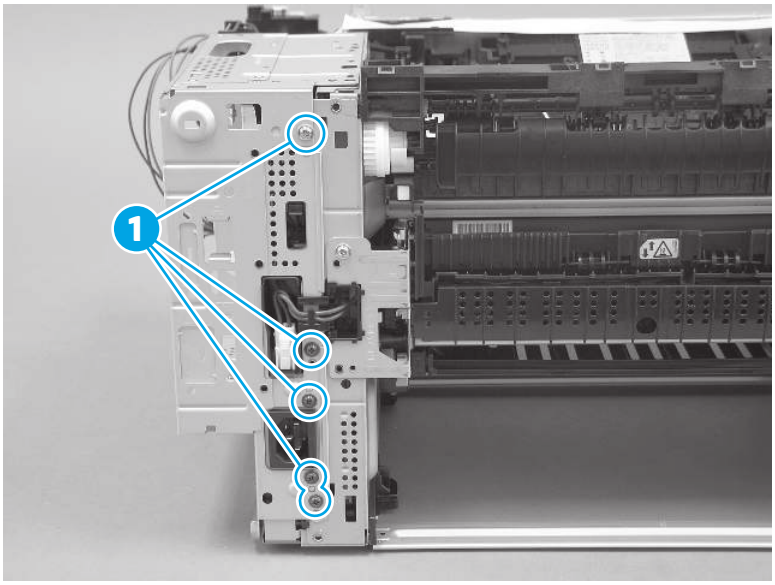
e. Remove four screws (callout 1).

Figure 1-688 Remove four screws



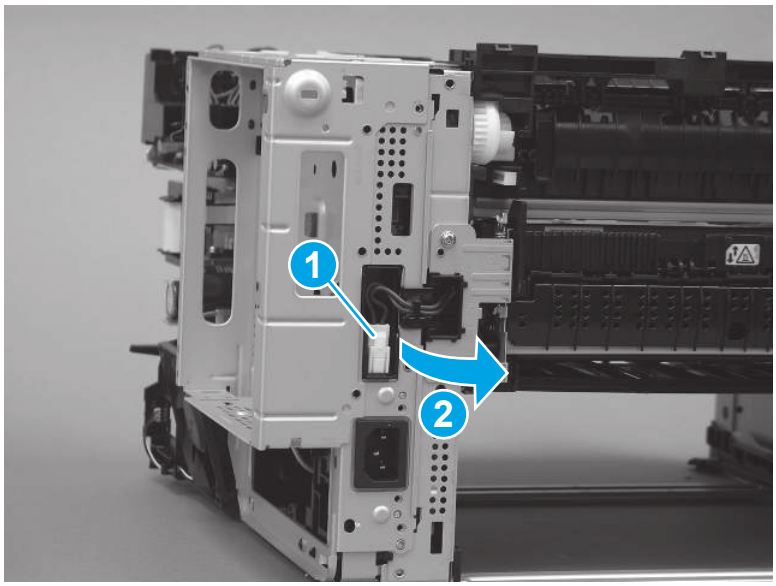
f. Remove five screws (callout 1).

Figure 1-689 Remove five screws



g. Disconnect one connector (callout 1), and then move the guide out of the way (callout 2).

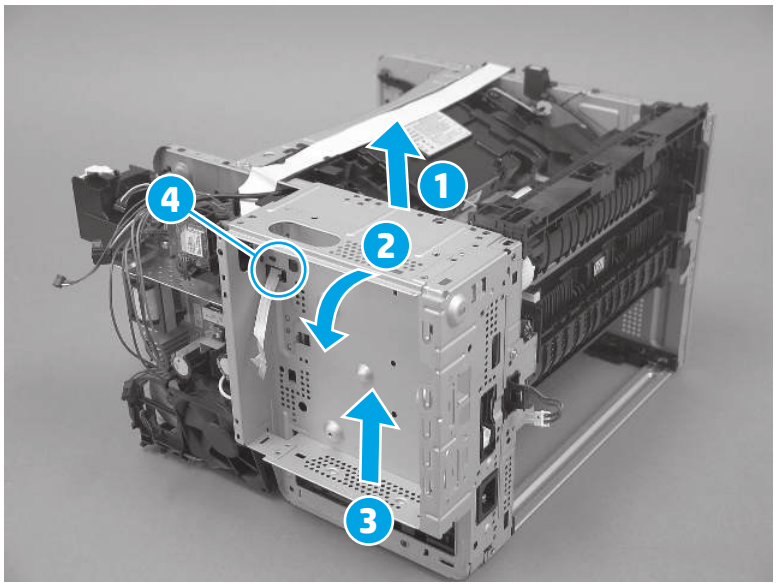
Figure 1-690 Disconnect one connector



h. Slightly lift up the formatter case (callout 1), rotate the top of the case away from the chassis (callout 2), and then lift up the case to release it (callout 3).

⚠ CAUTION: Pass the FFC through the opening (callout 4) in the formatter while removing the case.

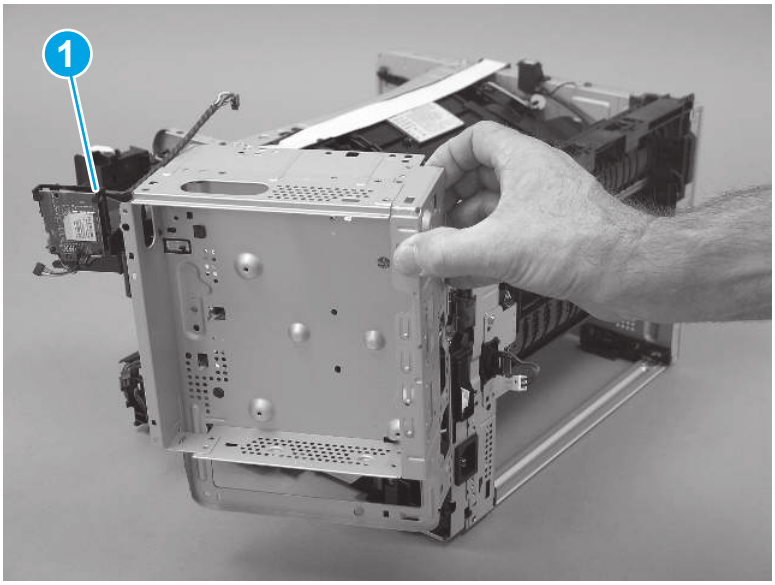
Figure 1-691 Release the formatter case



i. Remove the formatter case.

NOTE: **WiFi models only**: If the formatter case is being replaced, make sure that the WiFi PCA and bracket (callout 1) are transferred to the replacement case.

Figure 1-692 Remove the formatter case



20. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Removal and replacement: Fan (FM1)

Learn how to remove and replace the fan (FM1).

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the fan (FM1).

Mean time to repair: 12 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

> ⚠ **WARNING!** To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-37 Part information

Part number	Part description
RK2-8068-000CN	Fan (FM1)

Required tools

- Small flat-blade screwdriver
- #2 Phillips screwdriver with a magnetic tip and a 152 mm (6 in) shaft length

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

No post service test is available for this assembly.

1. Remove the tray.

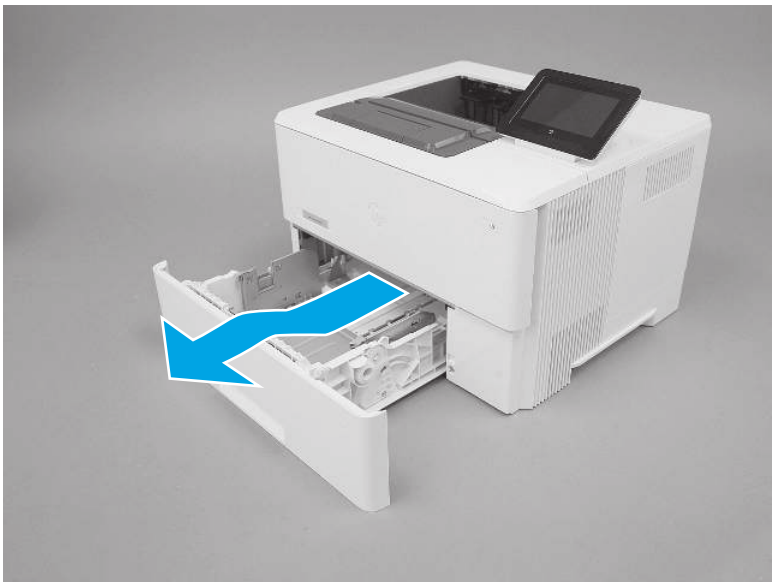
a. Pull the tray straight out of the printer until it stops.

Figure 1-693 Pull the tray out until it stops

b. Lift the front of the tray, and then pull it out of the printer to remove it.

NOTE: If the tray has Fixed Tray Guides installed and are still required, move the hardware to new tray. If necessary, order new kit: 3GY19-67901 Kit-Fixed Tray Guide. Only one kit required per engine.

Figure 1-694 Release and remove the tray



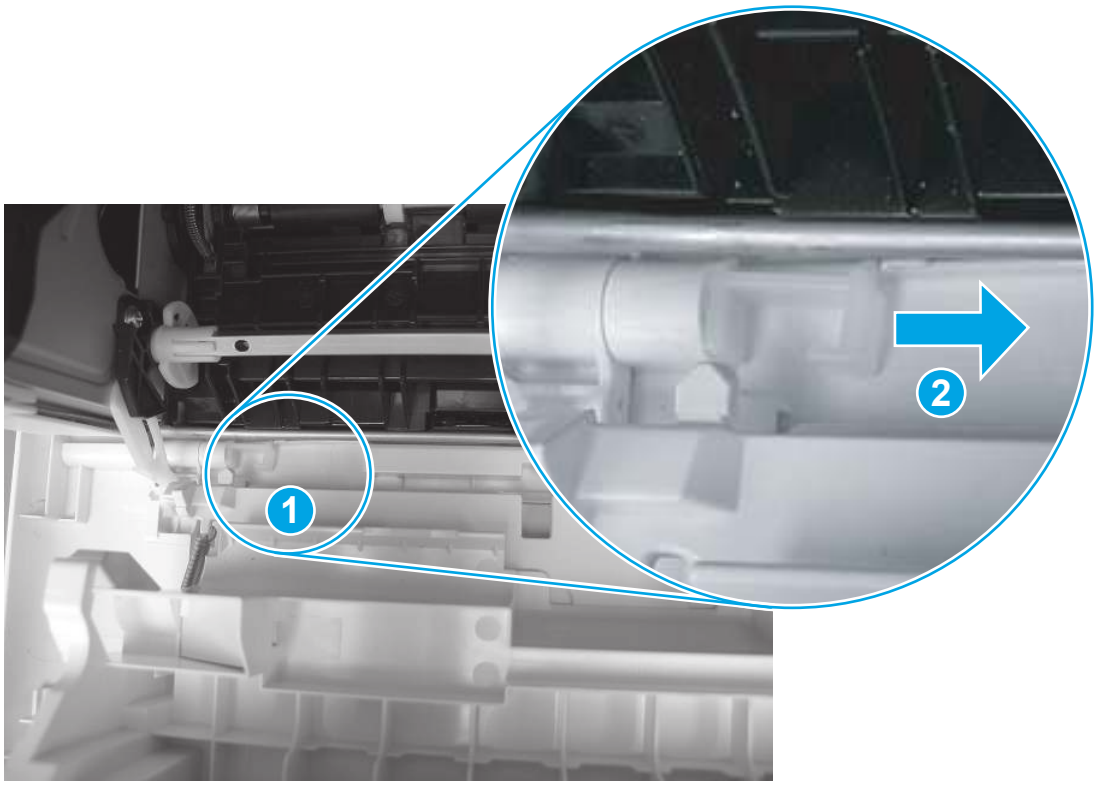
2. Remove the cartridge door assembly.

NOTE: If the toner cartridge was not removed prior to servicing the printer, remove it now.

a. Release the support shaft (callout 1), and then slide it toward the center of the door (callout 2).

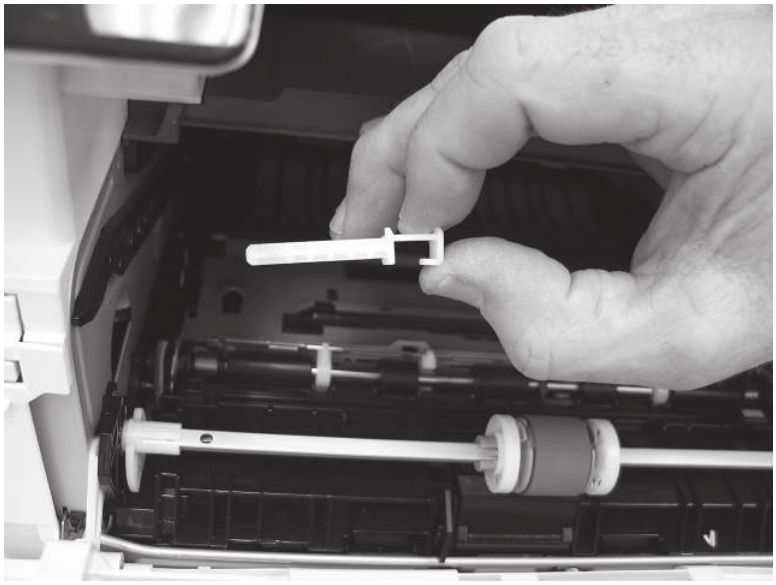
TIP: It might be easier to release the support shaft by using a small flat-blade screwdriver.

Figure 1-695 Release the support shaft



b. Remove the support shaft.

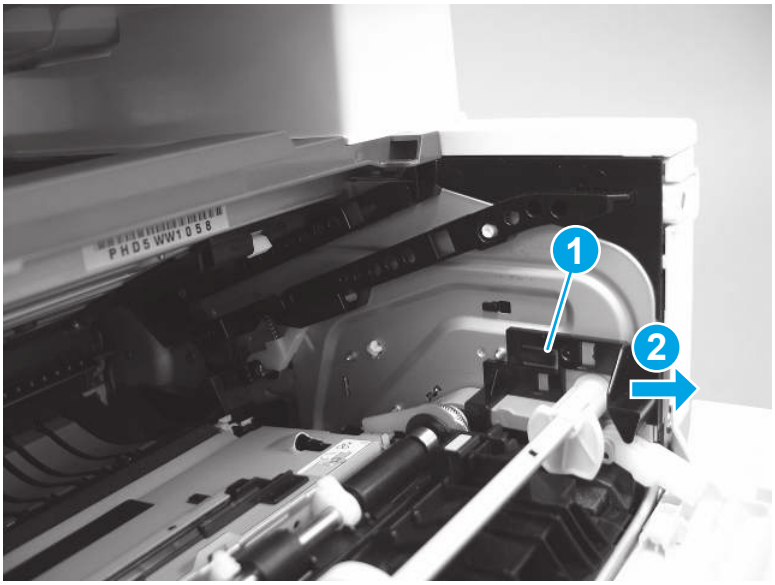
Figure 1-696 Remove the support shaft



c. Release one tab (callout 1), and then slide the guide out of the printer (callout 2).

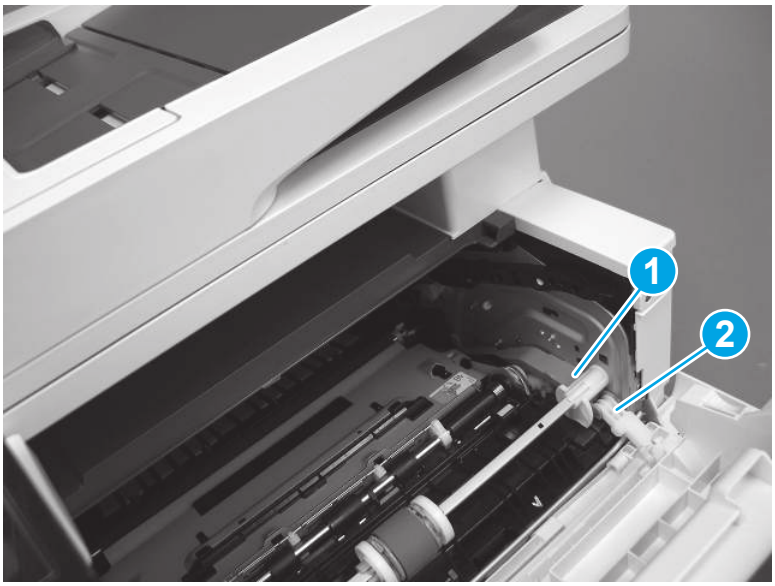
⚠ CAUTION: Be careful, the tab (callout 1) can be easily broken.

Figure 1-697 Remove the guide



d. Use a small flat-blade screwdriver to gently pry the white-plastic door arm (callout 1) off of the gray-plastic pressure-release link (callout 2) to release the door arm.

Figure 1-698 Release the pressure-release link



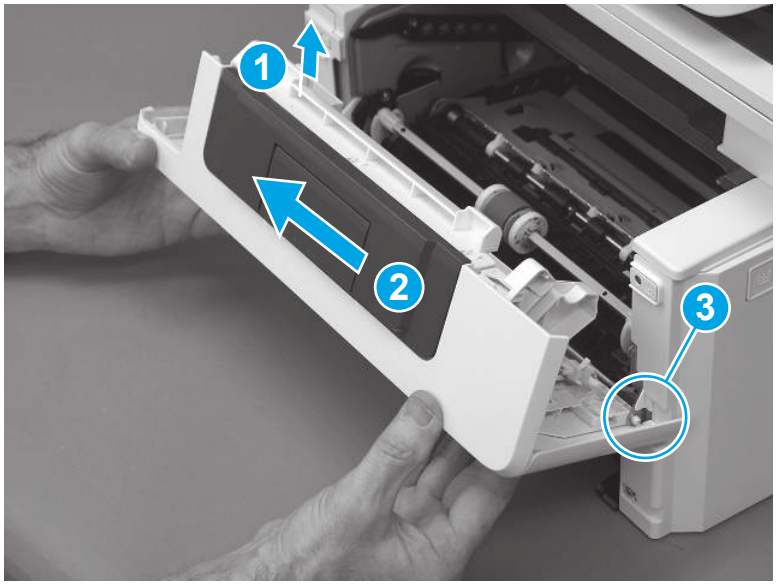
e. With the door in the partially closed position, slightly raise the left end (callout 1; raise it over the sheet-metal hinge boss), and then slide the door to the left (callout 2) to release the right hinge (callout 3).

⚠ CAUTION: The door is still attached to the printer by the left-side retainer arm. Do not attempt to completely remove the door.

Reinstallation tip: When reinstalling the door, there are two right-side hinge pins (not shown in callout 3).

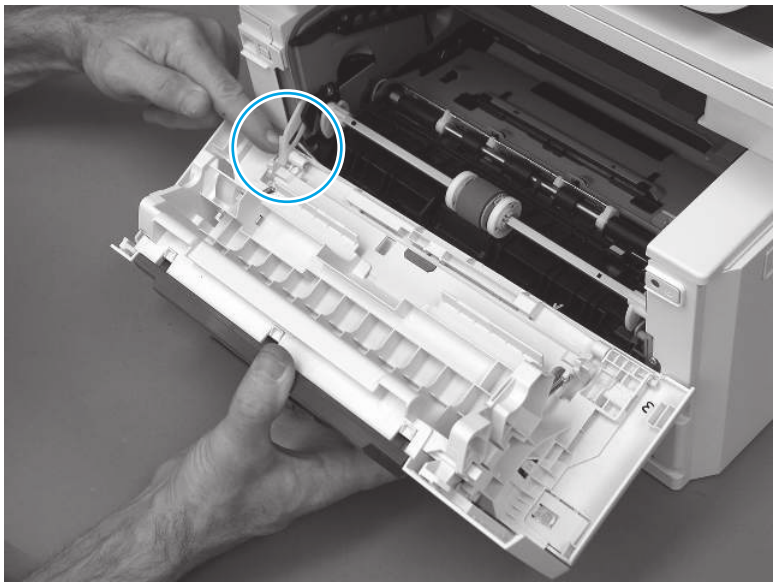
Keep a finger pressed on the left-side retainer arm so that it does not disengage from the door.

Figure 1-699 Release the door



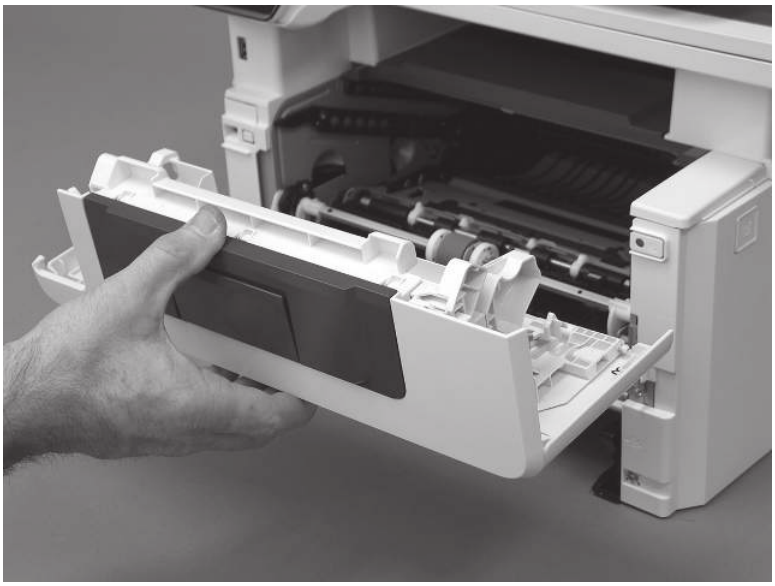
f. Rotate the door away from the printer until the keyed pin on the left-side retainer arm can disengage from the door.

Figure 1-700 Release the left-side retainer arm



g. Remove the door.

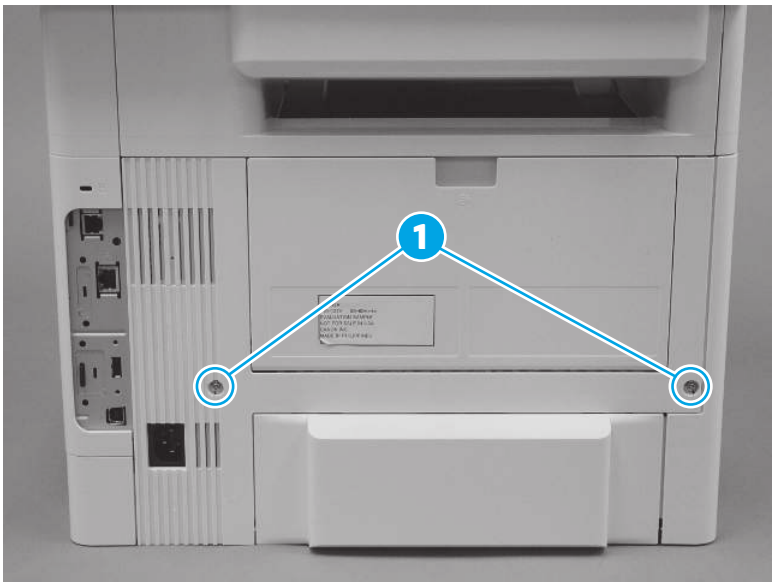
Figure 1-701 Remove the door



3. Remove the rear door assembly.

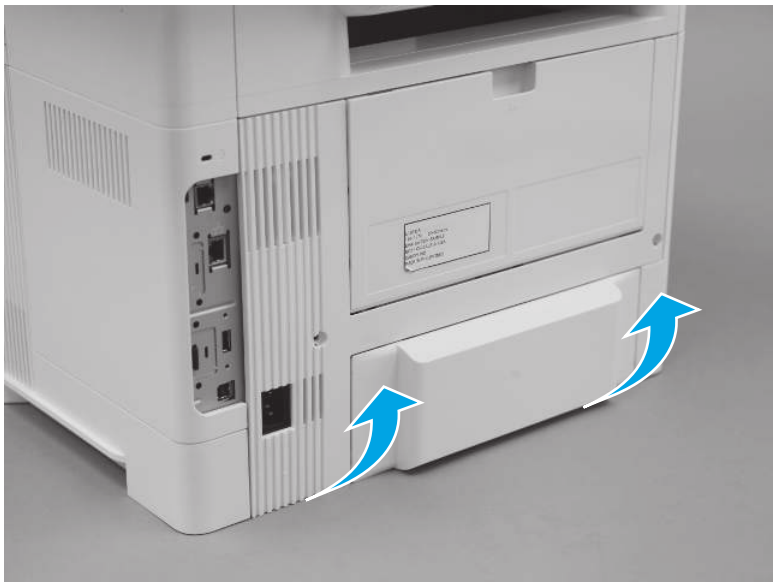
a. At the rear of the printer, remove two screws (callout 1).

Figure 1-702 Remove two screws



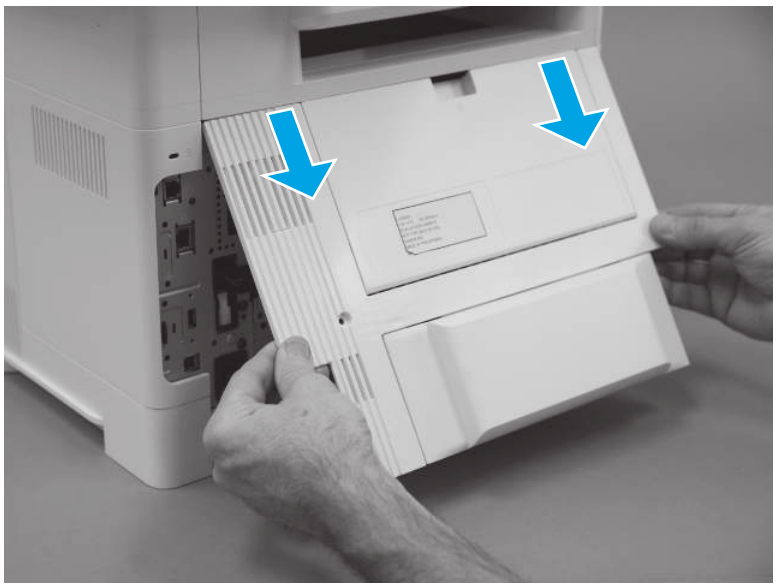
b. Rotate the bottom edge of the assembly away from the printer to release it.

Figure 1-703 Rotate the bottom of the cover



c. Pull down on the assembly to remove it.

Figure 1-704 Remove the cover



4. Remove the left cover.

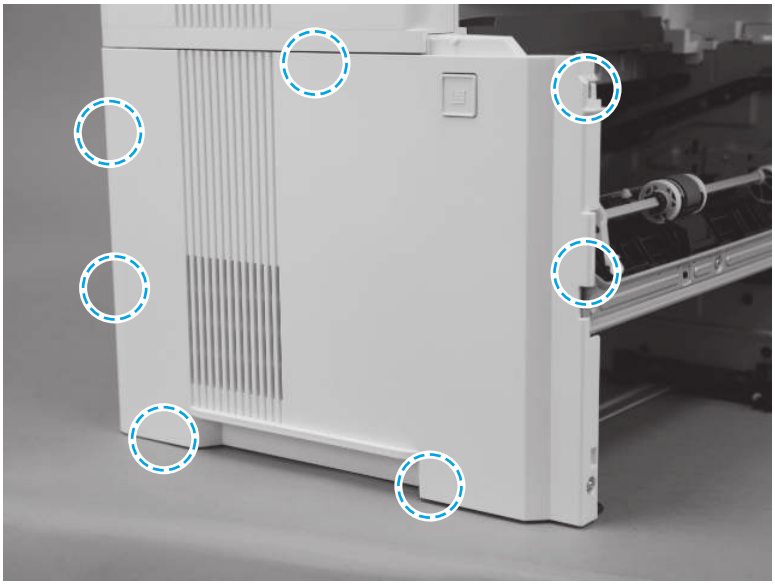
IMPORTANT: The black-plastic cassette front and rear guides (located inside the tray cavity) can be easily dislodged. Do not lose the guides when the cover is removed or installed.

NOTE: An MFP printer is shown in this section. However, the procedure is correct for all printer models.

a. Before proceeding, take note of the location of the tabs and bosses on the inside of the cover.

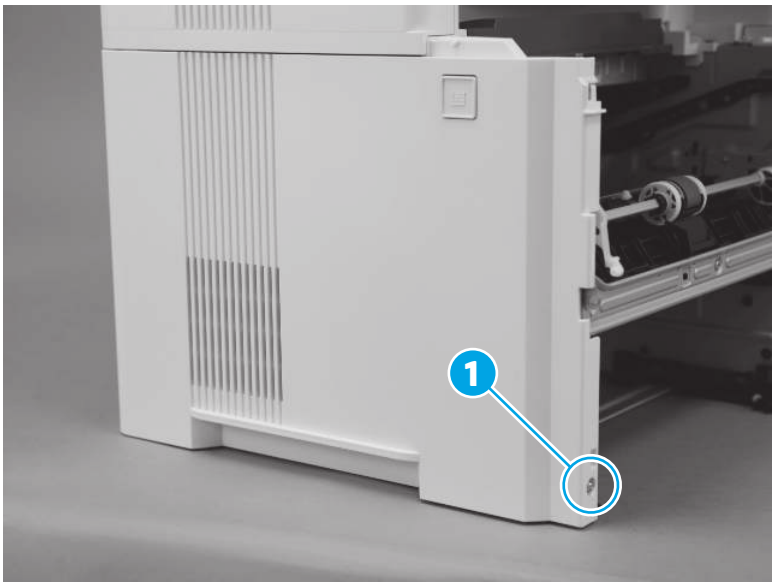
Reinstallation tip: When reinstalling the cover, take note of the location of the tabs and bosses on the inside of the cover.

Figure 1-705 Locate of the tabs and bosses



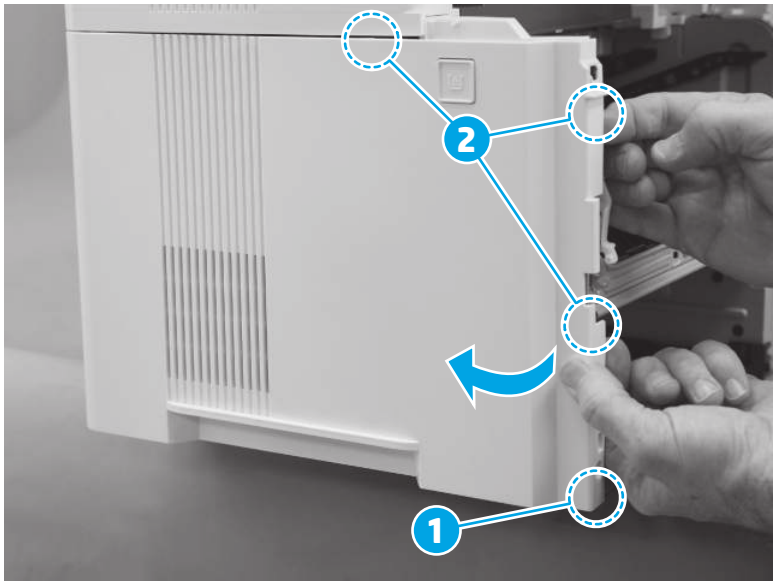
b. Remove one screw (callout 1).

Figure 1-706 Remove one screw



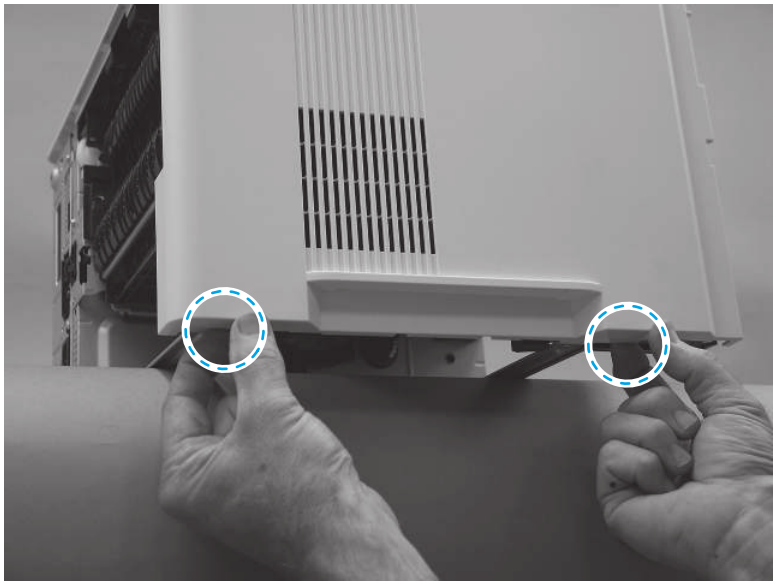
c. At the front of the printer, release one boss (callout 1), and then rotate the front edge of the cover away from the printer to release three tabs (callout 2).

Figure 1-707 Release one boss and three tabs



d. At the bottom edge of the cover, release two tabs.

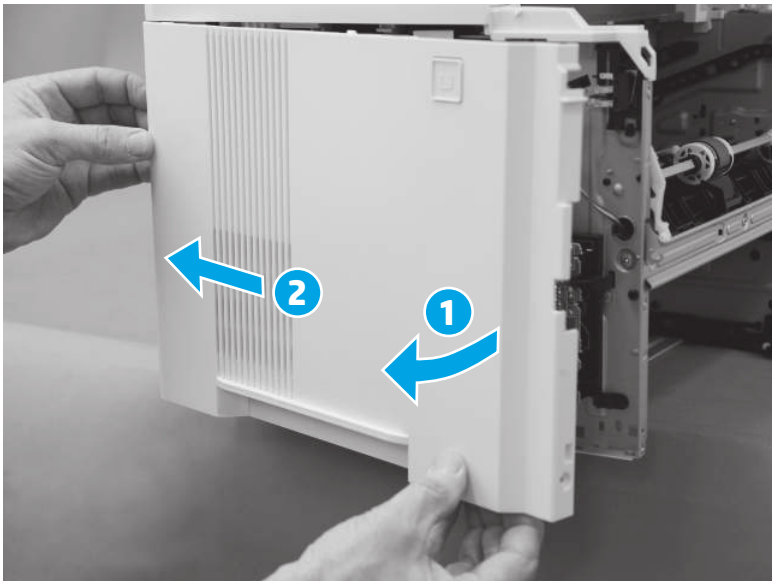
Figure 1-708 Release two tabs



e. Continue to rotate the front edge of the cover away from the printer (callout 1), and then slide the cover toward the rear of the printer (callout 2) to remove it.

NOTE: If the cover is difficult to rotate or slide as shown below, make sure that the bottom tabs (released in the previous step) are completely disengaged from the chassis.

Figure 1-709 Remove the cover

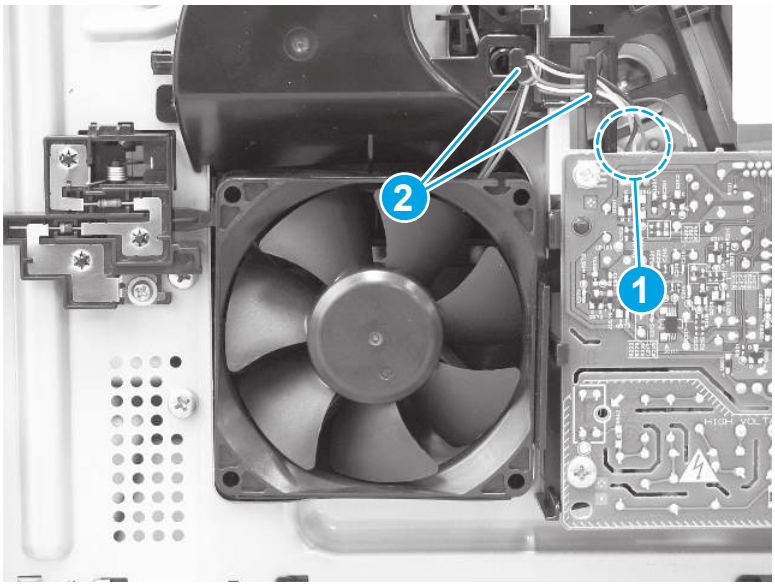


5. Remove the fan (FM1).

   a. At the left side of the printer, disconnect one connector (callout 1), and then release the wire harness from the retainer (callout 2).

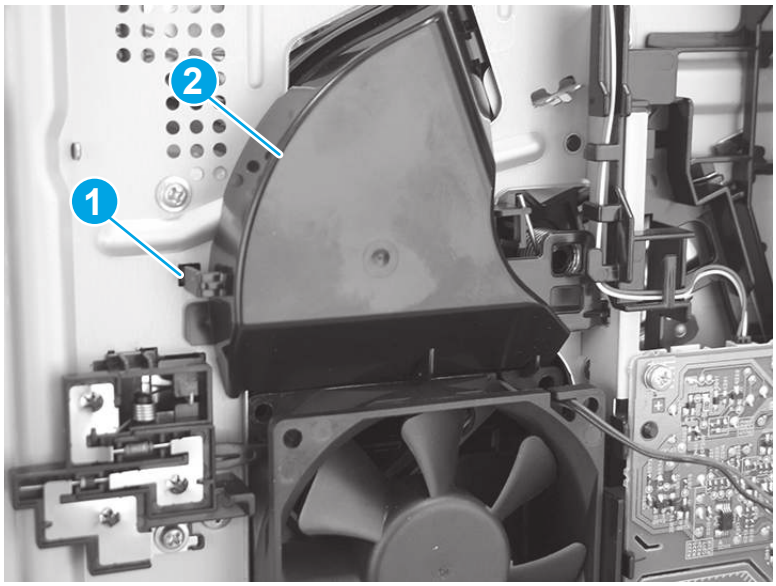
   Reinstallation tip: It might be easier to connect the connector first, and then install the wire harness in the retainer.

Figure 1-710 Disconnect one connector



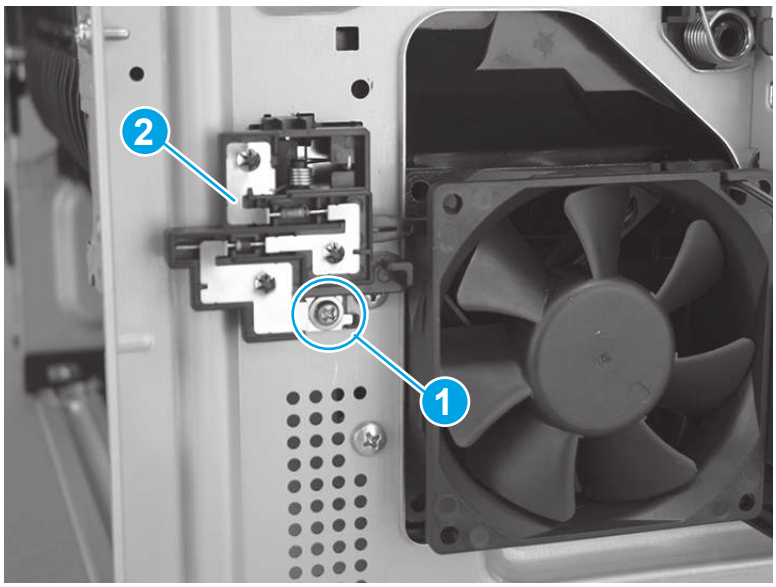
b. Release one tab (callout 1), and then remove the fan duct (callout 2).

Figure 1-711 Remove the fan duct



c. Remove one screw (callout 1), and then remove the film bias assembly (callout 2).

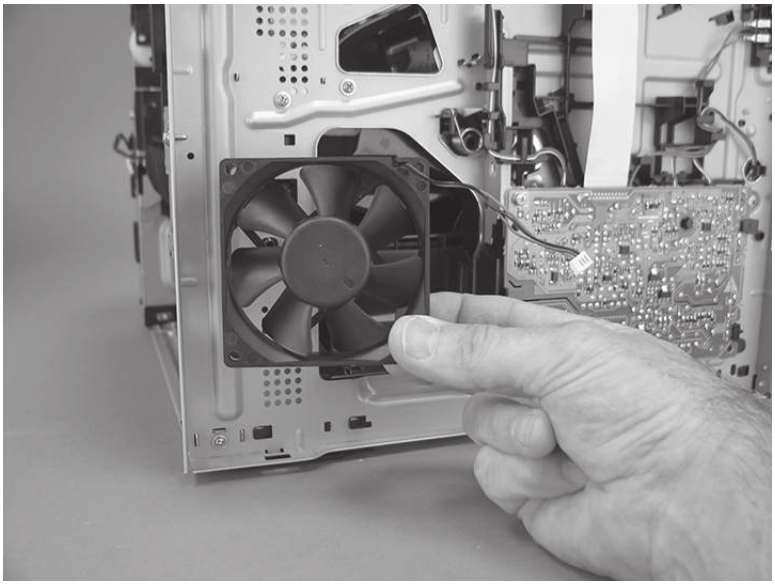
Figure 1-712 Remove the film bias assembly



d. Remove the fan (callout 2).

⚠ CAUTION: When reinstalled the fan must draw air into the printer. Make sure that the two arrows embossed on the top of the fan body (near the wire harness) face upward and into the printer.

Figure 1-713 Remove the fan



6. Unpack the replacement assembly.

   a. Dispose of the defective part.

   NOTE: HP recommends responsible disposal of the defective part.

   http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

   b. Unpack the replacement part from the packaging.

   CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

   If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

   IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

   c. To install an assembly, reverse the removal steps.

   NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Removal and replacement: Fan (FM2)

Learn how to remove and replace the fan (FM2).

To view a short video of this procedure, click the link below.

M501

View a video of how to remove and replace the fan (FM2) (M501).

M506/E50045

View a video of how to remove and replace the fan (FM2) (M506/E50045).

M507/E50145

View a video of how to remove and replace the fan (FM2) (M507/E50145).

M527/E52545/M528/E52645

View a video of how to remove and replace the fan (FM2) (M527/E52545/M528/E52645).

Mean time to repair: 12 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

⚠ **WARNING!** To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-38 Part information

Part number	Part description
RK2-8068-000CN	Fan (FM2)

Required tools

- Small flat-blade screwdriver
- #2 Phillips screwdriver with a magnetic tip and a 152 mm (6 in) shaft length

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

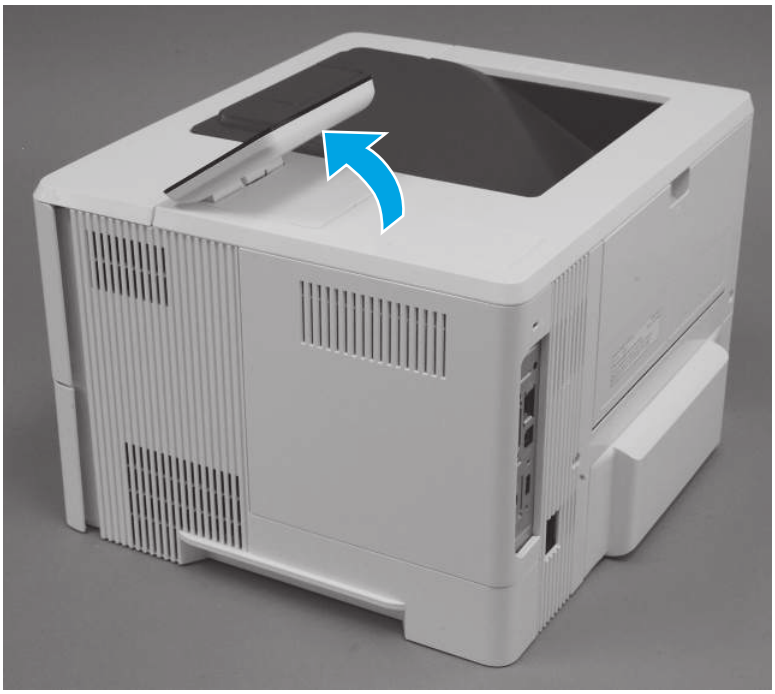
Post service test

No post service test is available for this assembly.

1. Remove the control panel (M506x/E50045x/M507x/E50145x).

a. Tilt the control panel to the fully raised position.

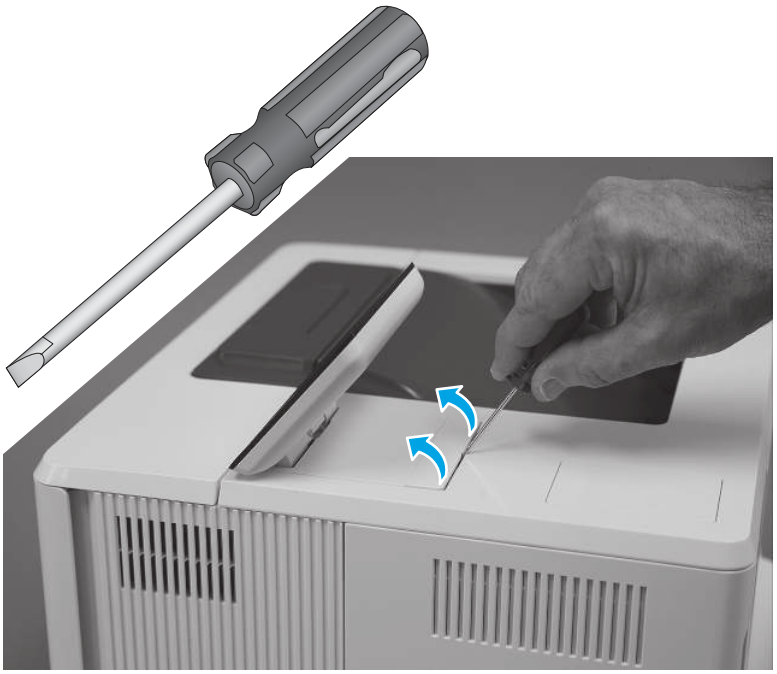
Figure 1-714 Tilt the control panel up



b. Use the small flat-blade screwdriver supplied in the kit to release the control-panel screws cover, and then remove the cover.

TIP: The screwdriver has a reversible shaft. Simply pull the shaft out of the handle, and then reinstall it with the desired end facing out.

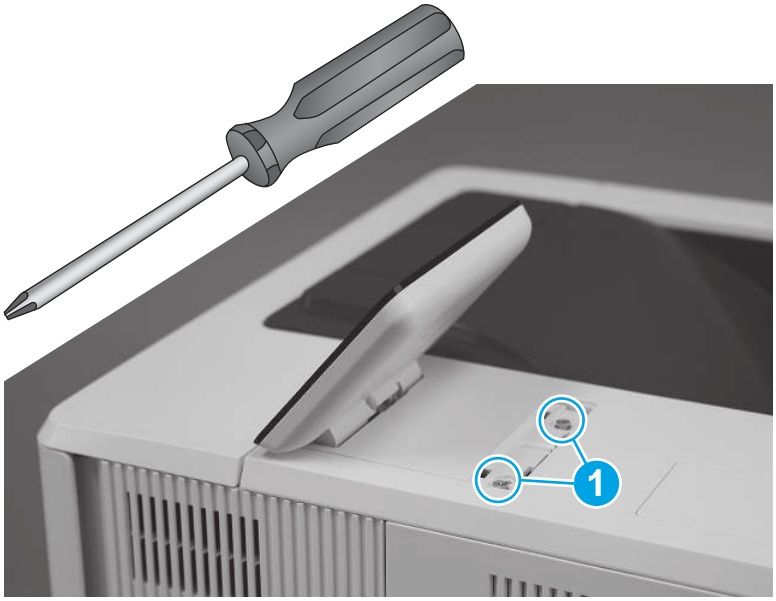
Figure 1-715 Remove the cover



c. Use the small Phillips screwdriver supplied in the kit to remove two screws (callout 1).

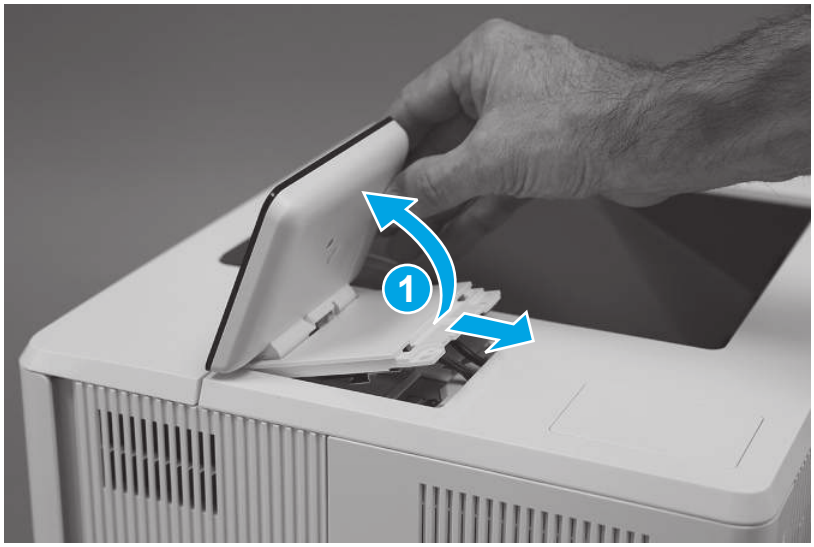
IMPORTANT: Store the screws in a secure place where they cannot fall down into the printer.

Figure 1-716 Remove two screws



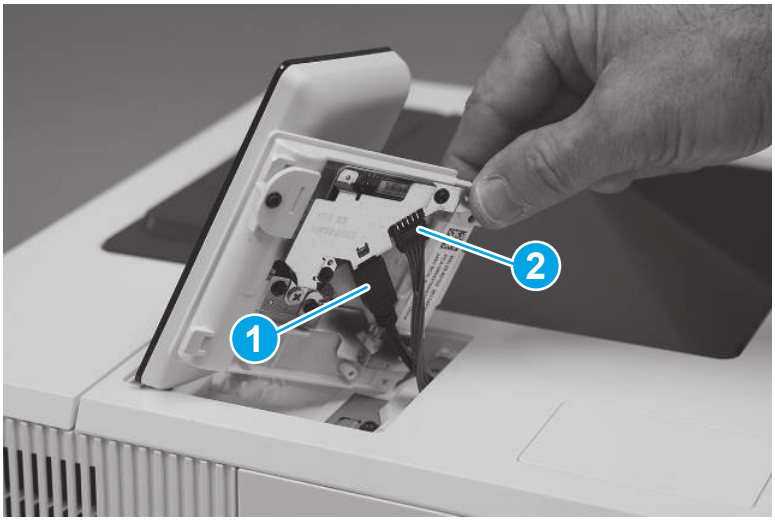
d. Turn the control panel over (callout 1), to gain access to the bottom side.

Figure 1-717 Turn the control panel over



e. **M506/E50045 only**: Disconnect one HDMI cable (callout 1), one connector (callout 2), and then remove the control panel.

Figure 1-718 Remove the control panel (M506/E50045)



f. **M507/E50154 only**: If the formatter cover has not been removed, remove it now. Disconnect one flat-flexible cable (FFC).

⚠ CAUTION: ESD sensitive part.

NOTE: This connector is a zero-insertion force (ZIF) connector. Open the locking clip. The clip is easily dislodged and lost.

Figure 1-719 Disconnect one FFC (M507/E50145)

g. **M507/E50145 only**: Pass the FFC through the opening in the cover, and then remove the control panel.

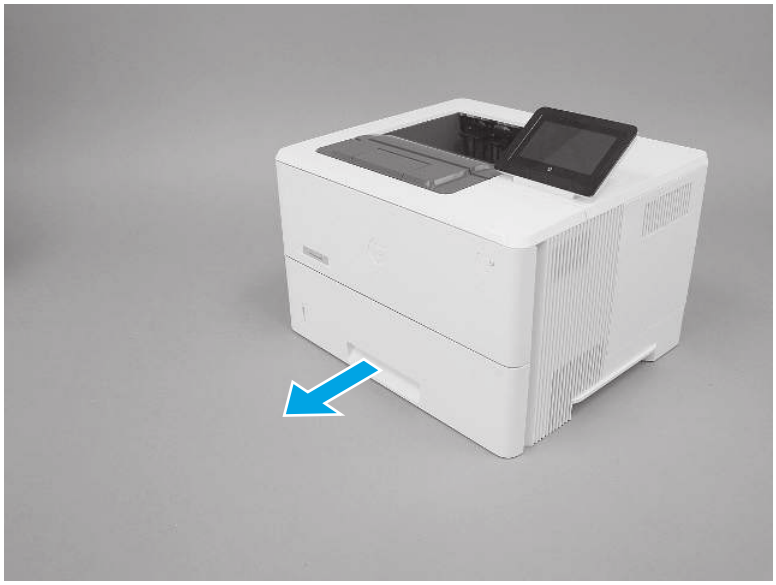
⚠ CAUTION: ESD sensitive part.

Figure 1-720 Remove the control panel (M507/E50145)

2. Remove the tray.

   a. Pull the tray straight out of the printer until it stops.

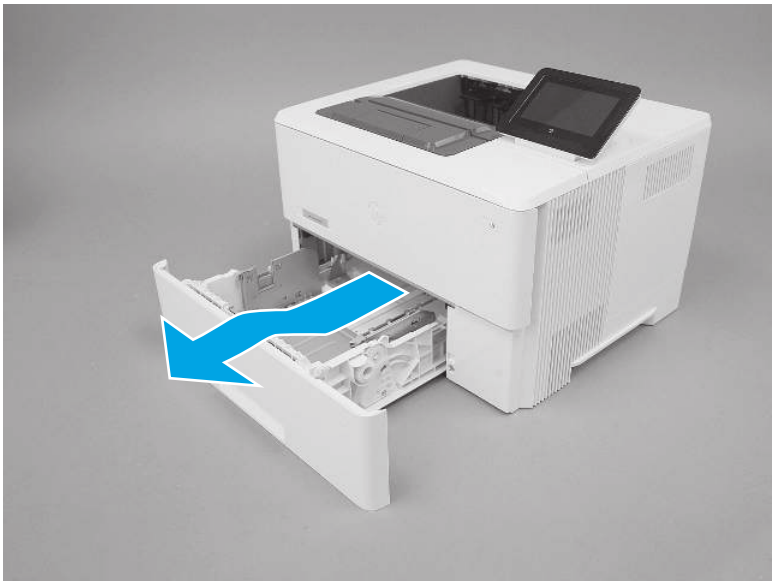
   Figure 1-721 Pull the tray out until it stops



   b. Lift the front of the tray, and then pull it out of the printer to remove it.

NOTE: If the tray has Fixed Tray Guides installed and are still required, move the hardware to new tray. If necessary, order new kit: 3GY19-67901 Kit-Fixed Tray Guide. Only one kit required per engine.

Figure 1-722 Release and remove the tray

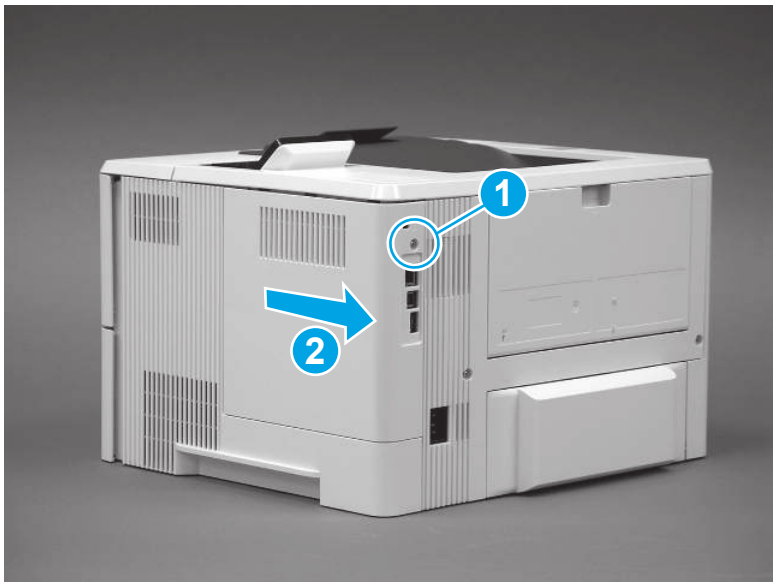


3. Remove the formatter cover.

▲ Do one of the following:

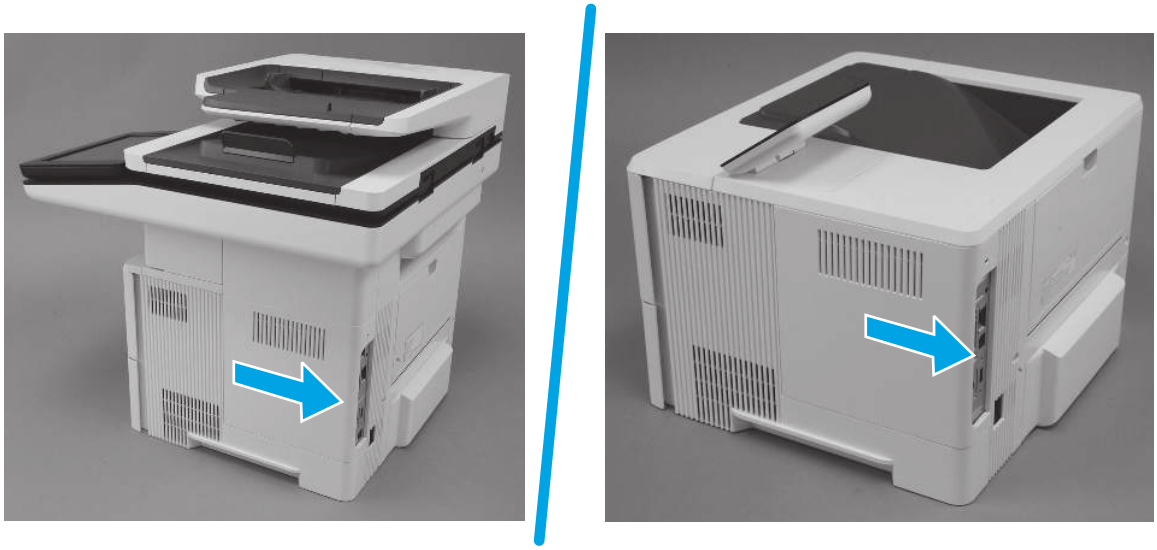
- M501: Remove one screw (callout 1), and then slide the cover toward the rear of the printer to remove it (callout 2).

Figure 1-723 Remove the formatter cover (M501)



- M506/E50045/M507/E50145/M527/E52545/M528/E52645: Slide the cover toward the rear of the printer to remove it.

Figure 1-724 Remove the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)

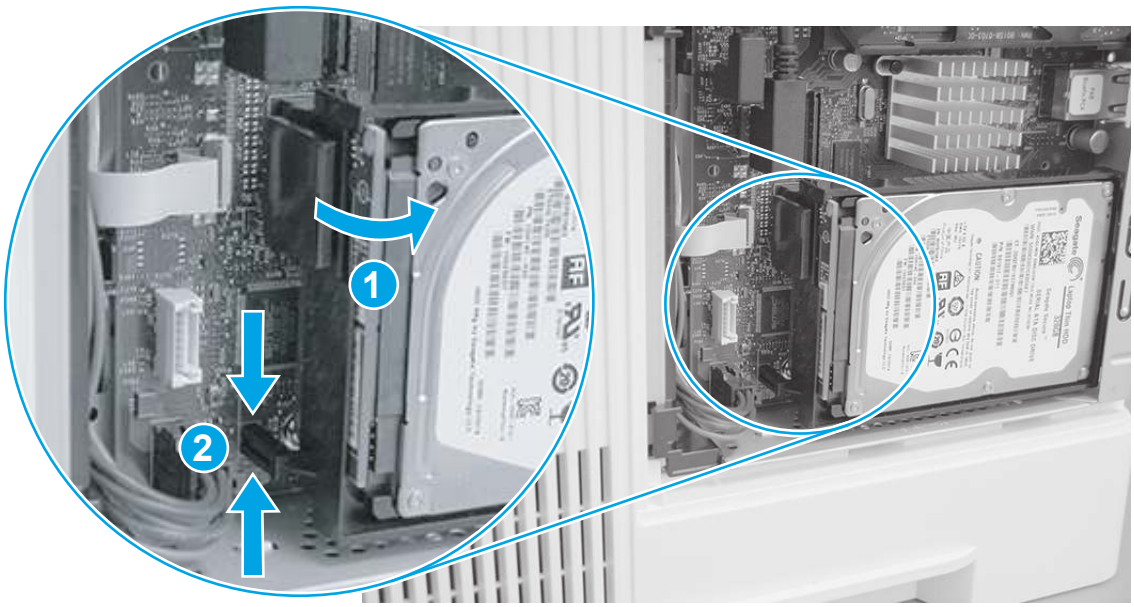


4. Remove the hard-disk drive (HDD models).

CAUTION: ESD sensitive part.

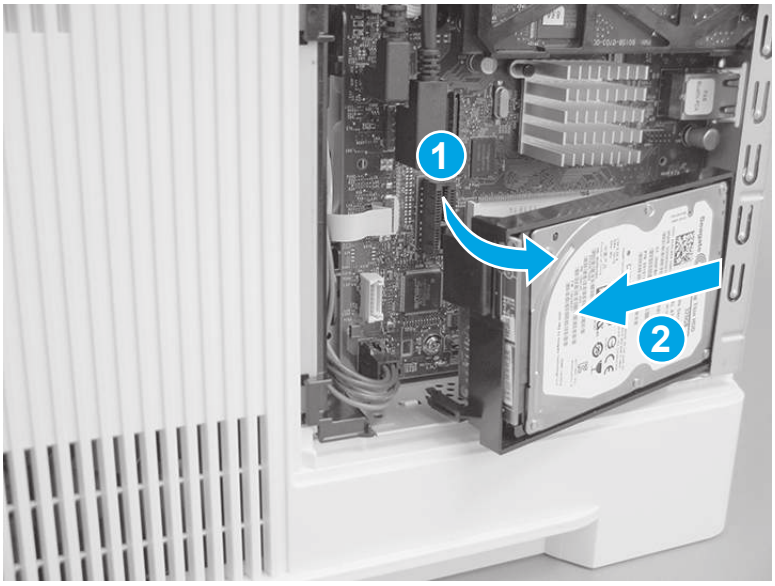
a. Release the locking connector (callout 1), and then pinch the retainer (callout 2) to release it.

Figure 1-725 Release the HDD



b. Rotate the connector end of the HDD out and away from the formatter (callout 1), and then slide it as shown (callout 2) to remove it.

Figure 1-726 Remove the HDD

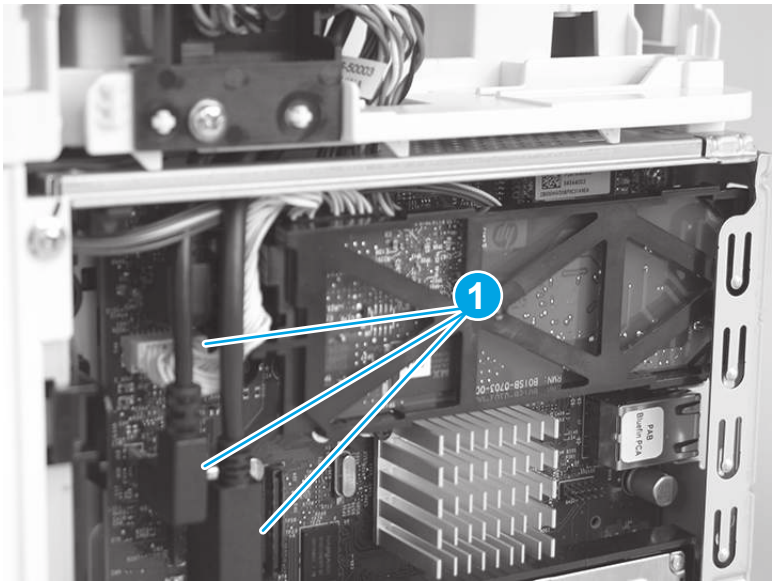


5. Remove the fax PCA (M527/E52545/M528/E52645 fax models).

CAUTION: ESD-sensitive part.

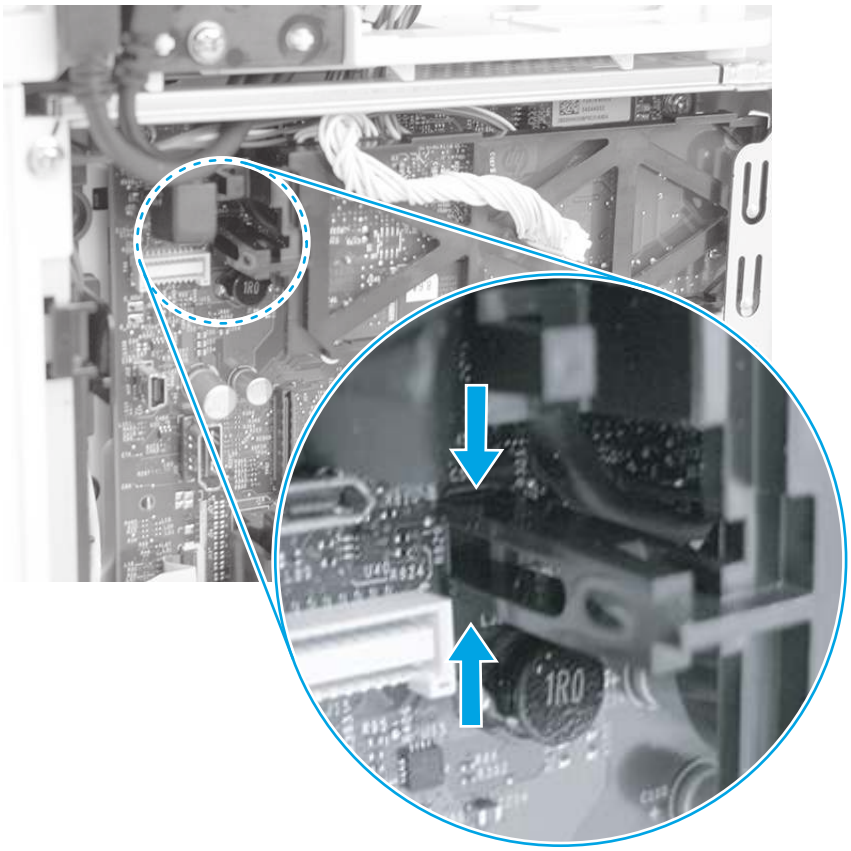
a. Disconnect three connectors (callout 1).

Figure 1-727 Disconnect three connectors



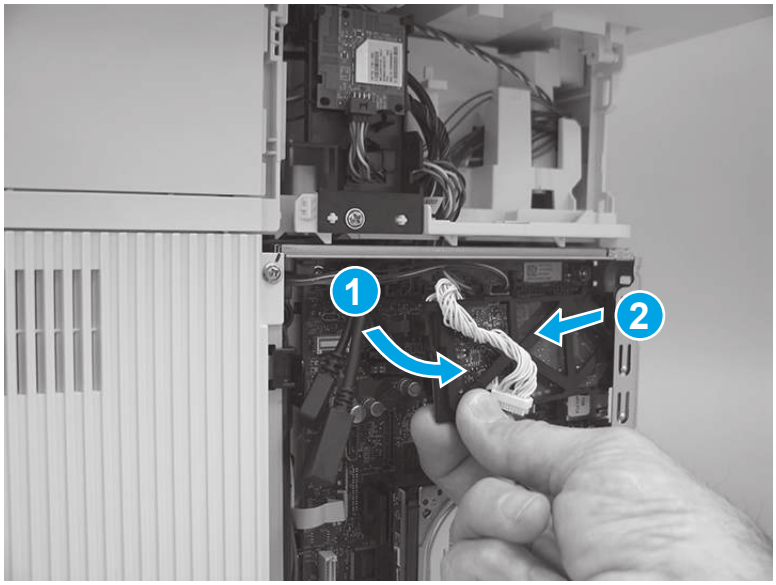
b. Pinch the retainer to release it.

Figure 1-728 Release the fax PCA



c. Rotate the connector end of the fax PCA out and away from the formatter (callout 1), and then slide it as shown (callout 2) to remove it.

Figure 1-729 Remove the fax PCA



6. Remove the formatter.

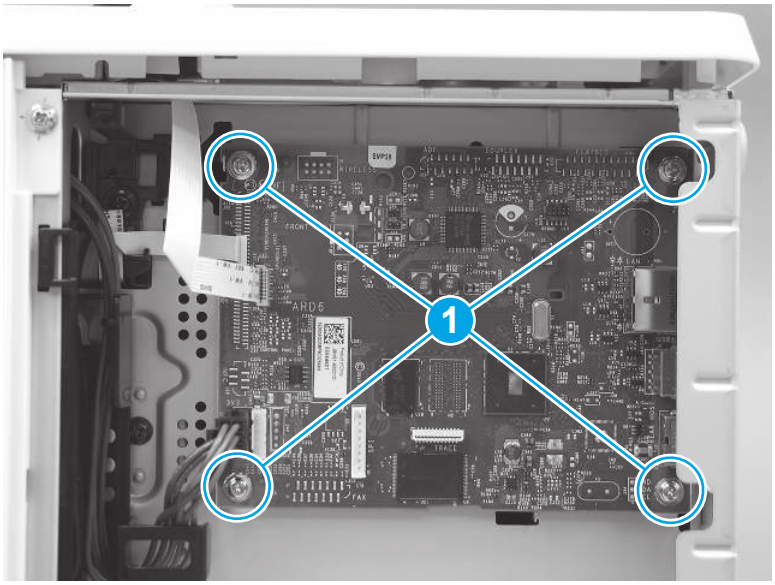
CAUTION: Never remove and then install a replacement DCC and formatter at the same time. Doing so will cause the printer to become unstable.

If a replacement DCC and formatter must be installed, first remove and install the formatter. Test operate the printer, and then if necessary install a replacement DCC.

IMPORTANT: Take note of all empty connectors on the PCA before disconnecting any wire harnesses or flat-flexible cables (FFCs). Some empty connectors might not be visible until other items—like the hard-disk drive—are removed, so pay close attention while removing the formatter and accessory items.

a. M501: Disconnect all of the connectors and FFCs, remove four screws (callout 1), and then remove the formatter.

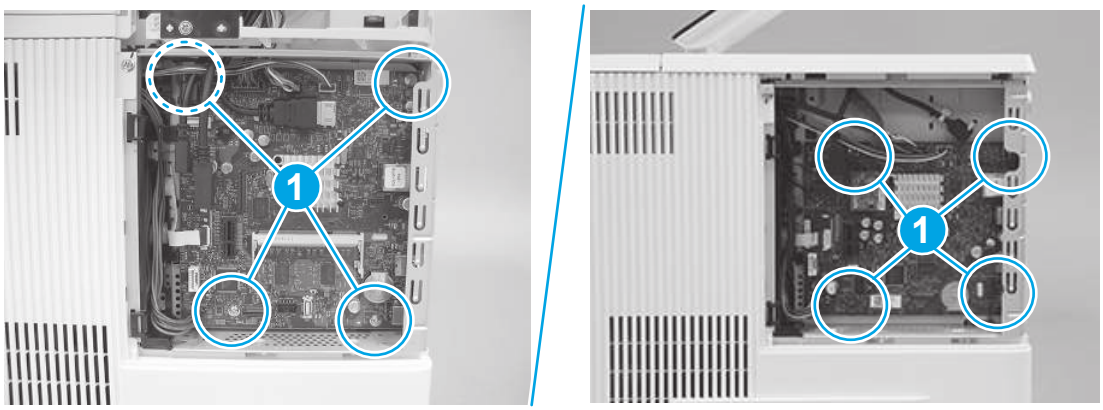
Figure 1-730 Remove the formatter (M501)



b. M506/E50045/M507/E50145/M527/E52545/M528/E52645: Disconnect all of the connectors and FFCs, remove four screws (callout 1), and then remove the formatter.

IMPORTANT: Take note of all empty connectors on the formatter before disconnecting any wire harnesses or flat-flexible cables (FFCs). Some empty connectors might not be visible until other items —like the hard-disk drive—are removed, so pay close attention while removing the formatter and accessories items.

Figure 1-731 Remove the formatter (M506/E50045/M507/E50145/M527/E52545/M528/E52645)

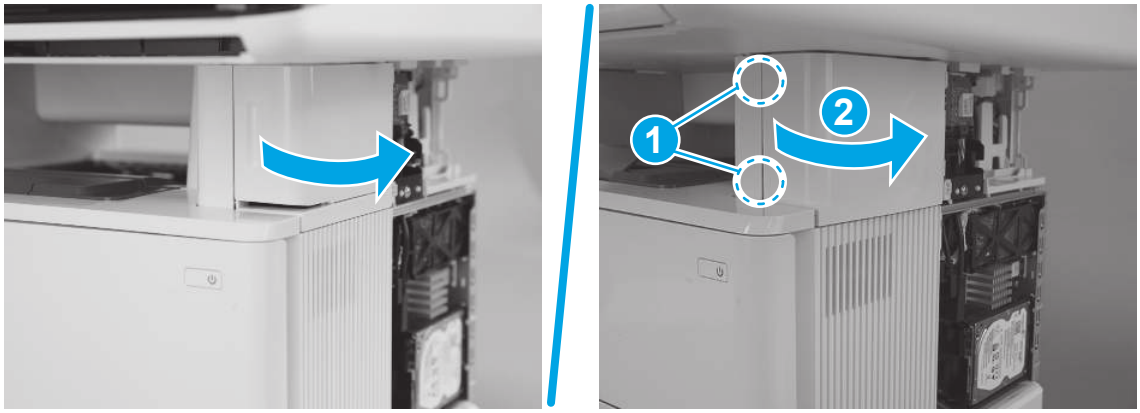


7. Remove the stapler door or stapler blank cover (M527/E52545/M528/E52645).

   a. Do one of the following:

      - **Stapler models**: Open the stapler door.
      - **Non-stapler models**: Use a small flat-blade screw driver to release two tabs (callout 1), and then rotate the cover away from the printer (callout 2).

Figure 1-732 Open the door or release the cover



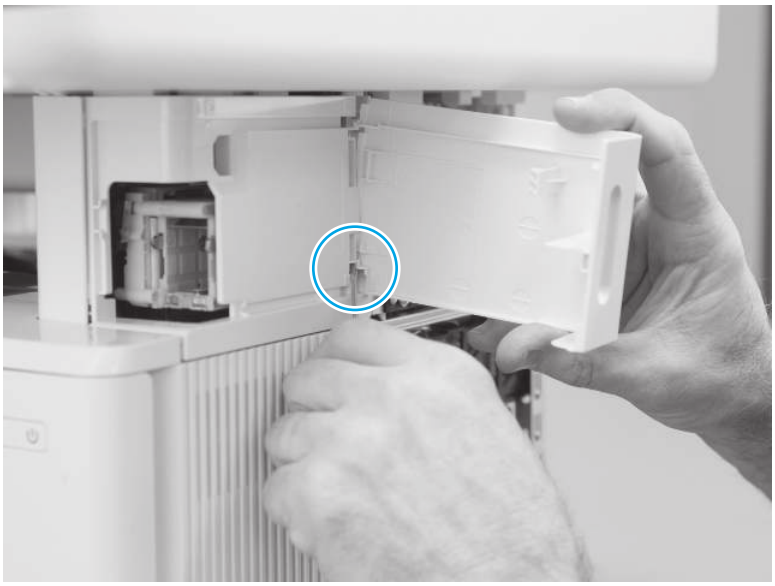
   b. Do one of the following:

      - **Stapler models**: Use a small flat-blade screwdriver to release the upper hinge.
      - **Non-stapler models**: Slide the cover toward the front of the printer to remove it.

Figure 1-733 Release the upper hinge or remove the cover

c. **Stapler models**: Use a small flat-blade screwdriver to release the lower hinge.

Figure 1-734 Release the lower hinge



d. **Stapler models**: Remove the door.

Figure 1-735 Remove the door

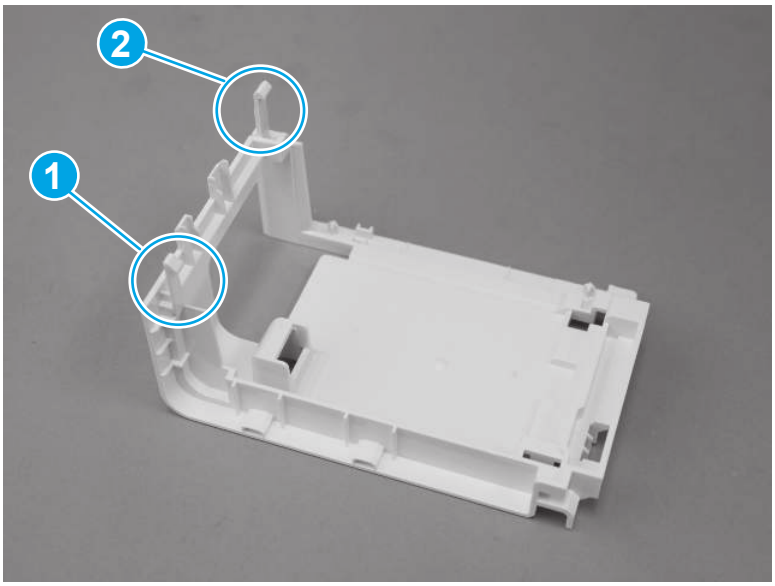
8. Remove the stapler stationary (inner) cover (M527/E52545/M528/E52645).

NOTE: Stapler models only.

a. Before proceeding, take note of the locations of the upper tab (callout 1) and the lower tab (callout 2) on the stapler stationary (inner) cover.

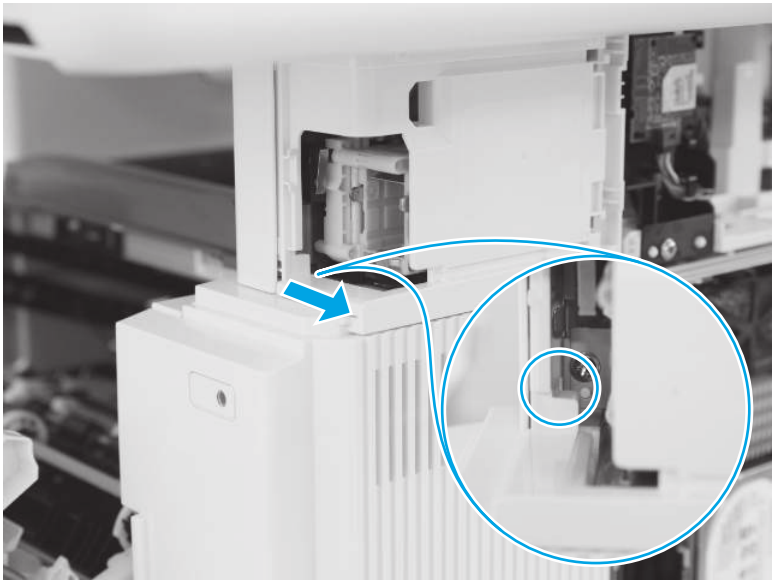
Reinstallation tip: When reinstalling the cover, take note of the location of the tabs.

Figure 1-736 Locate the tabs



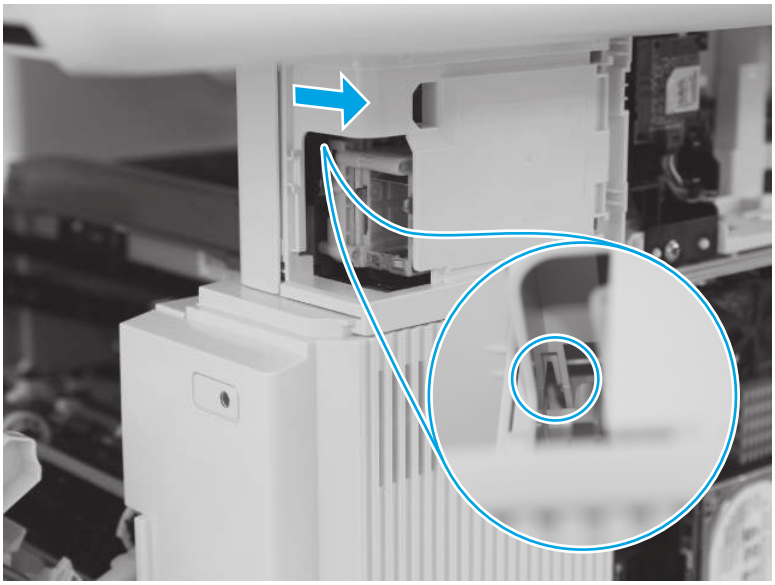
b. Use a long-shaft small flat-blade screwdriver to release the lower tab.

Figure 1-737 Release one tab



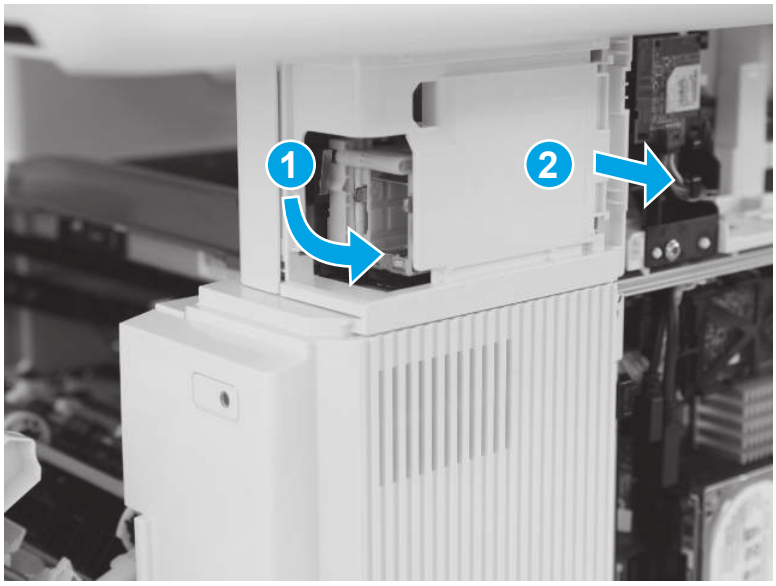
c. Use a long-shaft small flat-blade screwdriver to release the upper tab.

Figure 1-738 Release one tab



d. With the tabs disengaged the front of the cover is released. Rotate the front of the cover away from the printer (callout 1) to release the rear of the cover (callout 2), and then remove it.

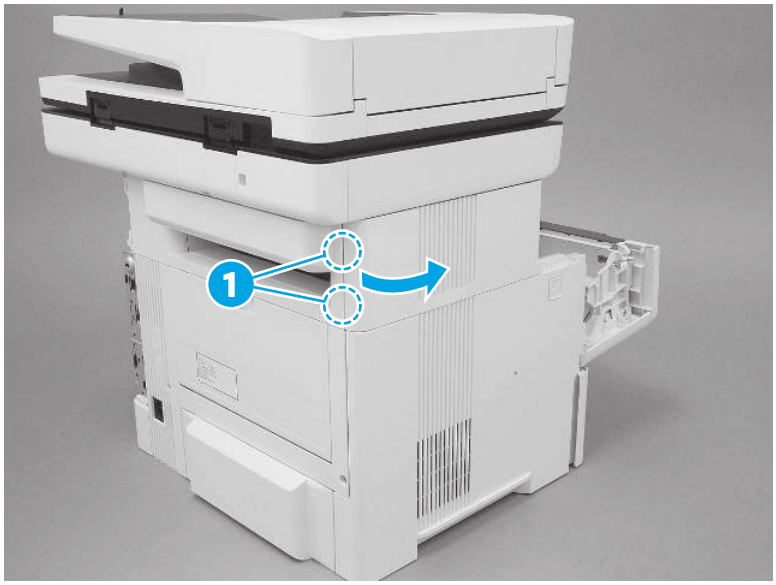
Figure 1-739 Remove the cover



9. Remove the top-left cover (M527/E52545M528/E52645).

a. Open the toner-cartridge door, release two tabs (callout 1), and then rotate the rear edge of the cover away from the printer.

Figure 1-740 Release two tabs



b. Continue to rotate the cover away from the printer to release two more tabs at the middle of the cover.

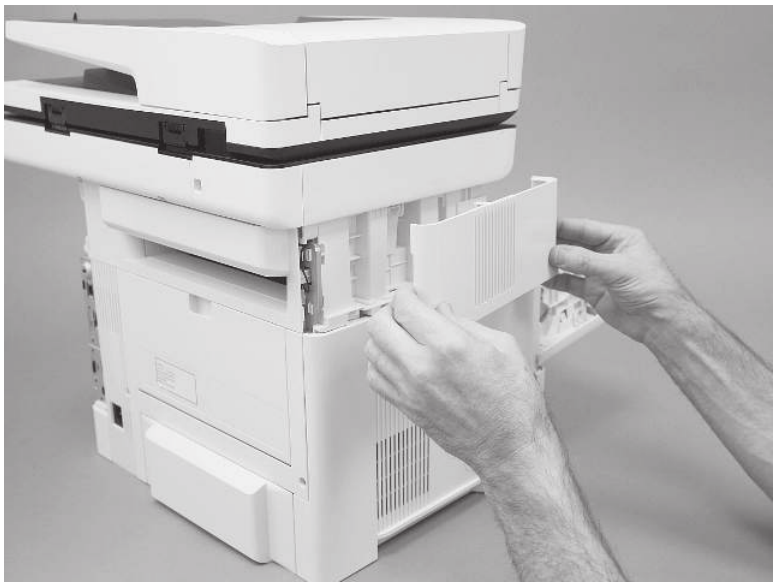
Figure 1-741 Release two tabs

c. Slide the cover toward the rear of the printer to release two bosses at the front of the cover.

Figure 1-742 Slide the cover

d. Remove the cover.

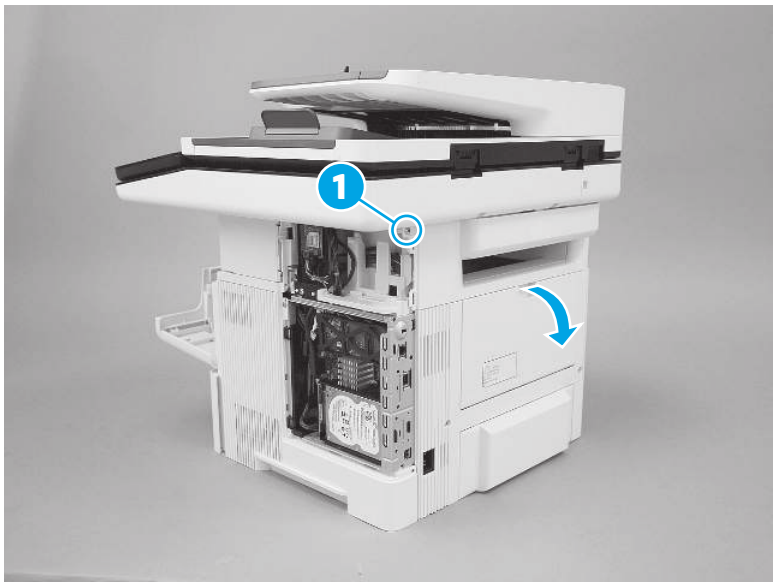
Figure 1-743 Remove the cover



10. Remove the top-rear cover (M527/E52545/M528/E52645).

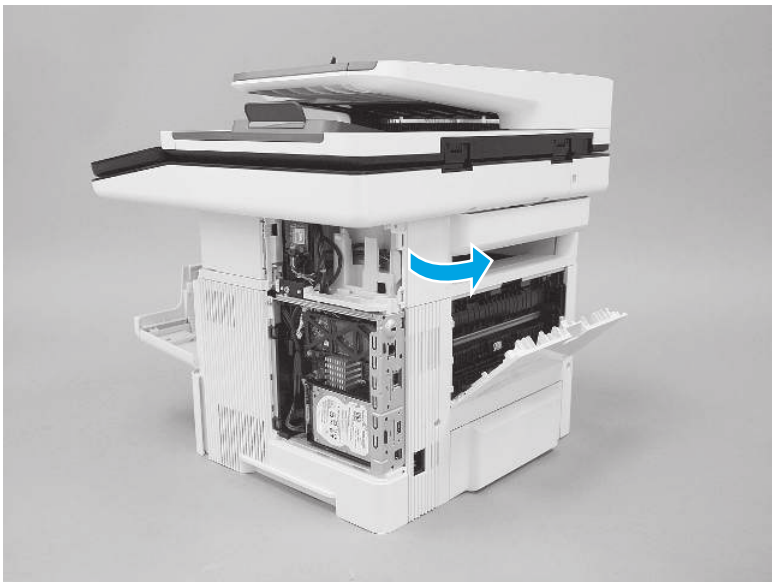
a. Remove one screw (callout 1), and then open the rear door.

Figure 1-744 Remove one screw



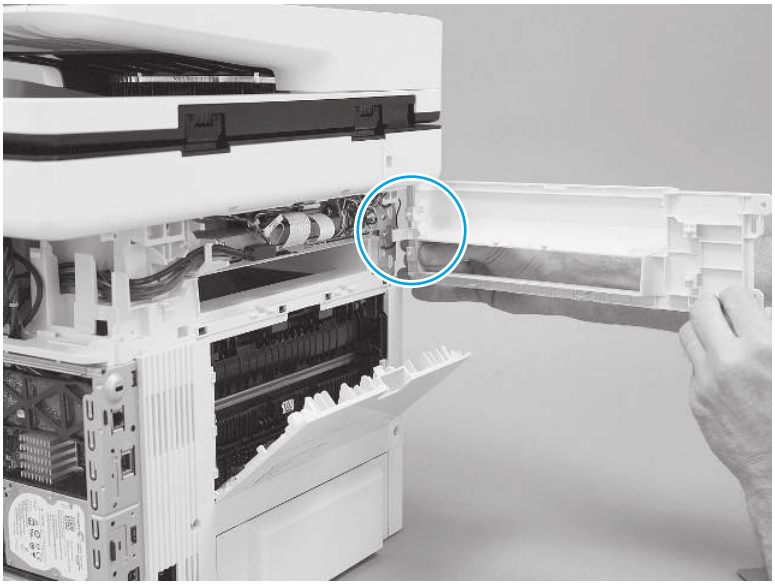
b. Rotate the exposed edge of the cover away from the printer (as shown).

Figure 1-745 Rotate the cover



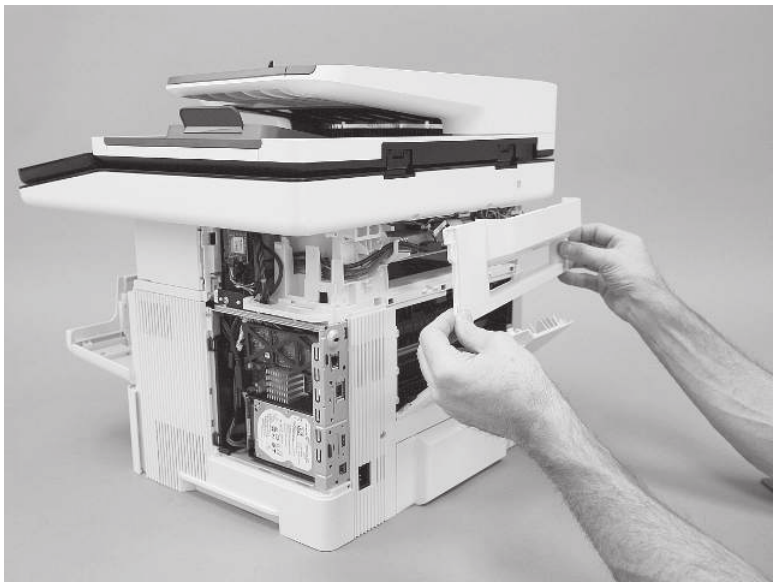
c. Continue to rotate the cover away from the printer to release one boss.

Figure 1-746 Release one boss



d. Remove the cover.

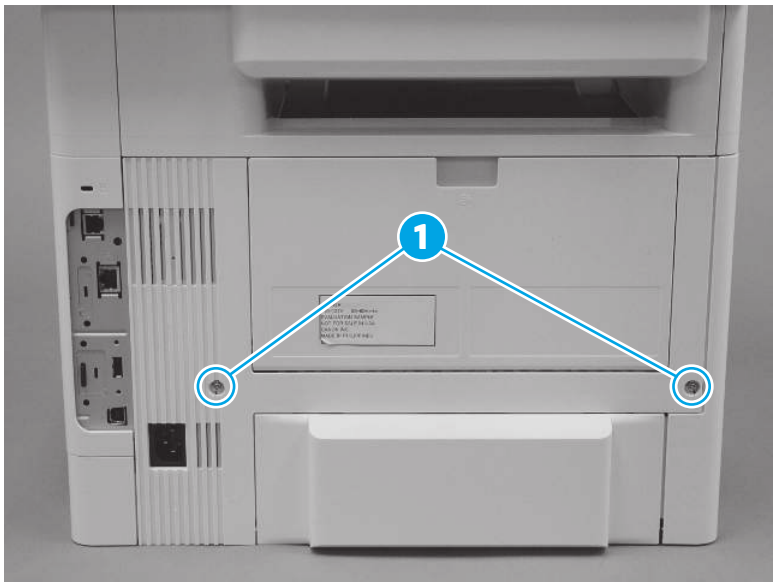
Figure 1-747 Remove the cover



11. Remove the rear door assembly.

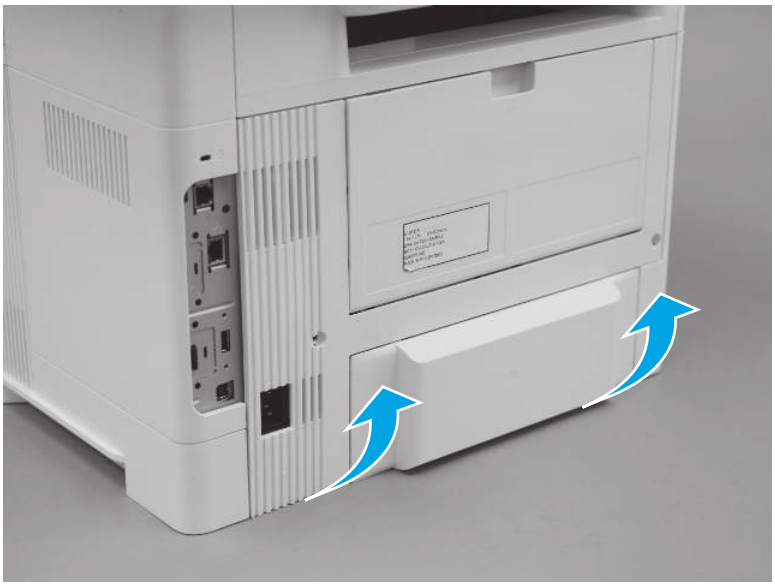
a. At the rear of the printer, remove two screws (callout 1).

Figure 1-748 Remove two screws



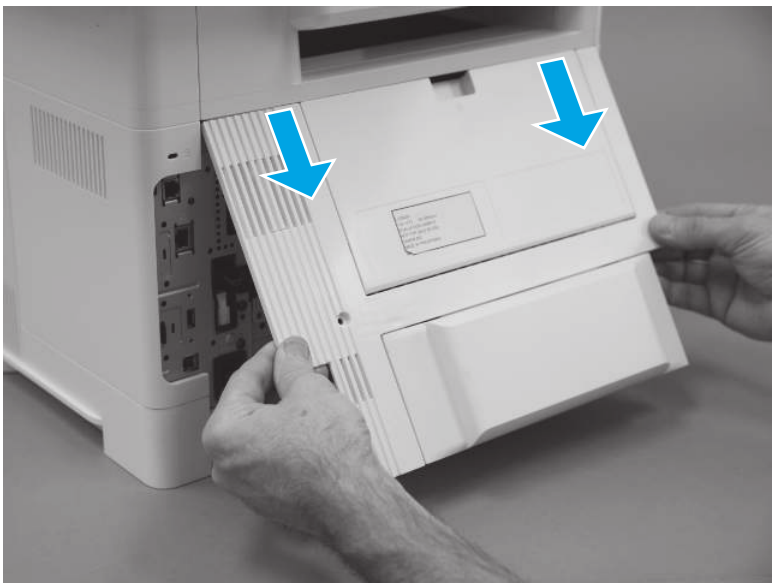
b. Rotate the bottom edge of the assembly away from the printer to release it.

Figure 1-749 Rotate the bottom of the cover



c. Pull down on the assembly to remove it.

Figure 1-750 Remove the cover



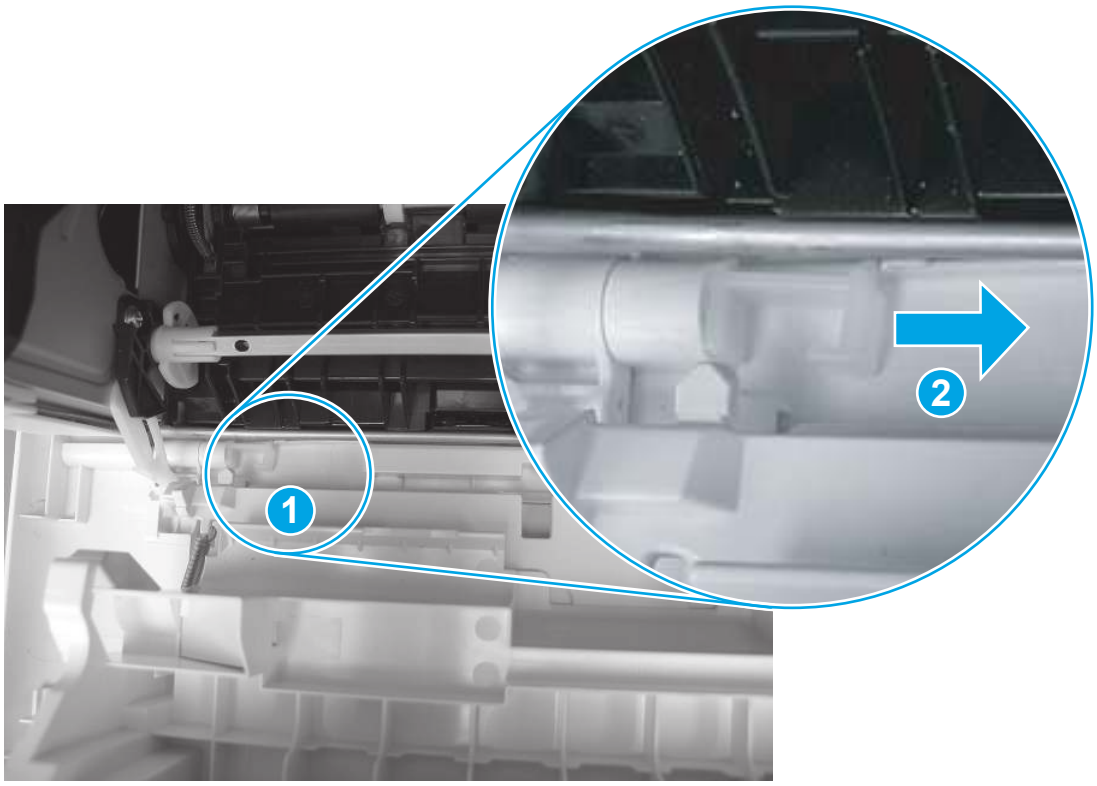
12. Remove the cartridge door assembly.

NOTE: If the toner cartridge was not removed prior to servicing the printer, remove it now.

a. Release the support shaft (callout 1), and then slide it toward the center of the door (callout 2).

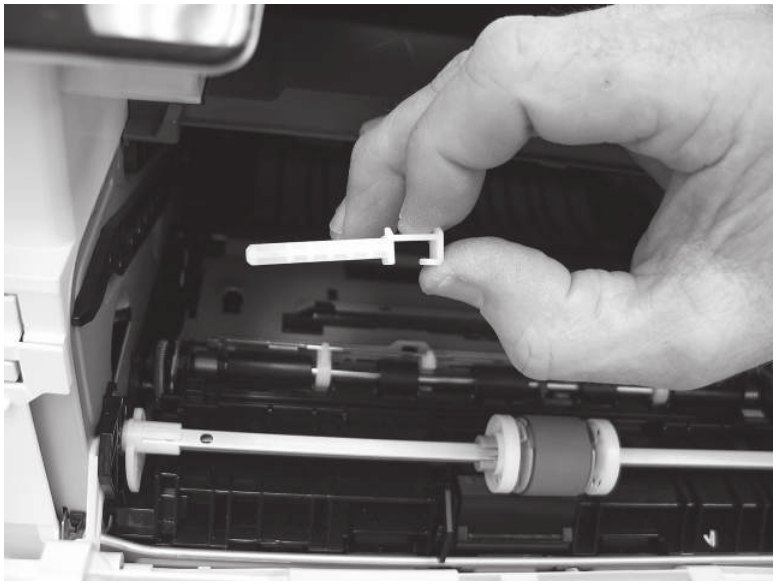
TIP: It might be easier to release the support shaft by using a small flat-blade screwdriver.

Figure 1-751 Release the support shaft



b. Remove the support shaft.

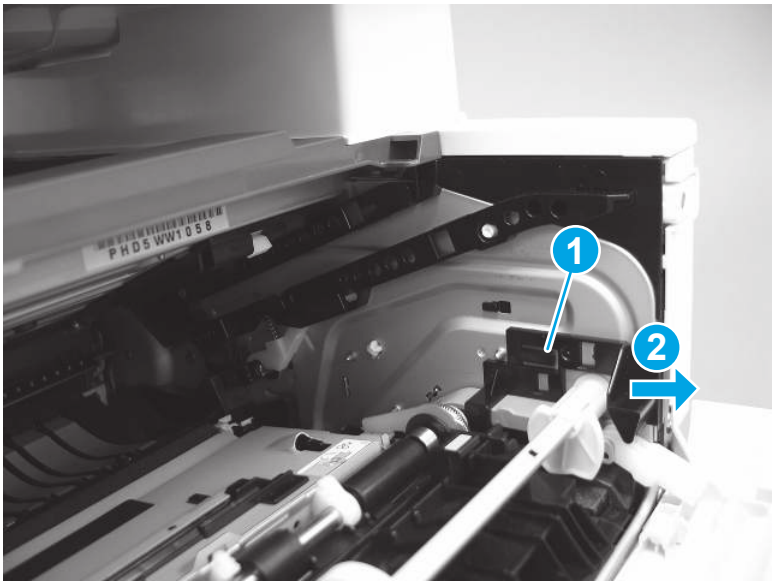
Figure 1-752 Remove the support shaft



c. Release one tab (callout 1), and then slide the guide out of the printer (callout 2).

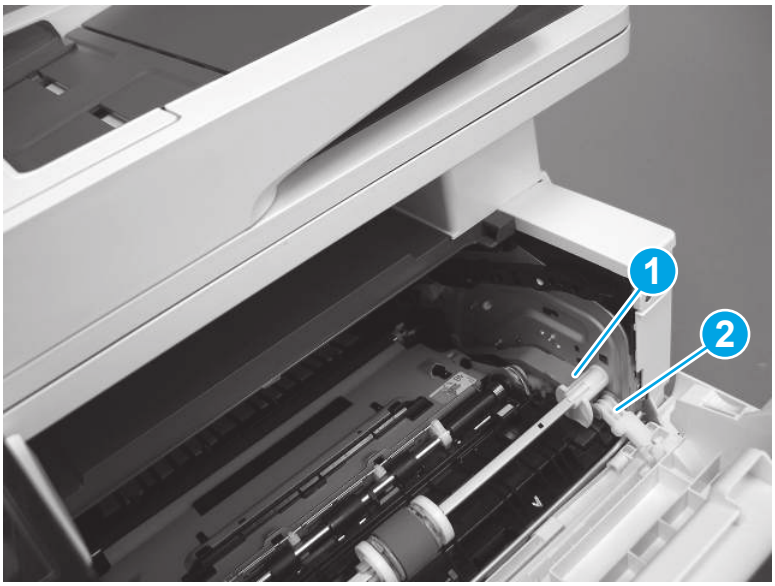
⚠ CAUTION: Be careful, the tab (callout 1) can be easily broken.

Figure 1-753 Remove the guide



d. Use a small flat-blade screwdriver to gently pry the white-plastic door arm (callout 1) off of the gray-plastic pressure-release link (callout 2) to release the door arm.

Figure 1-754 Release the pressure-release link



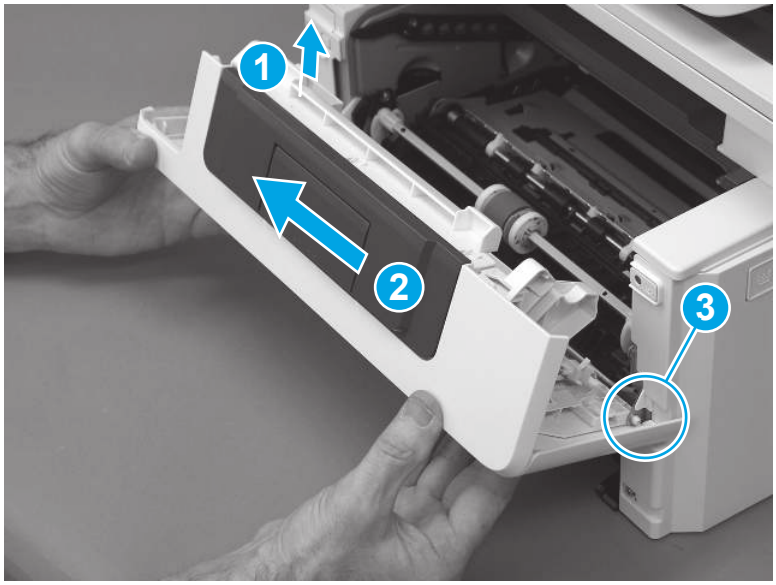
e. With the door in the partially closed position, slightly raise the left end (callout 1; raise it over the sheet-metal hinge boss), and then slide the door to the left (callout 2) to release the right hinge (callout 3).

⚠ CAUTION: The door is still attached to the printer by the left-side retainer arm. Do not attempt to completely remove the door.

Reinstallation tip: When reinstalling the door, there are two right-side hinge pins (not shown in callout 3).

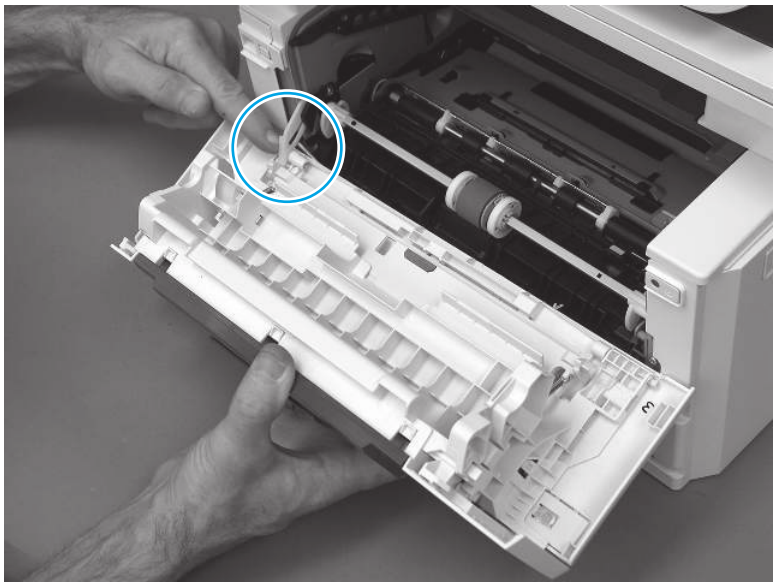
Keep a finger pressed on the left-side retainer arm so that it does not disengage from the door.

Figure 1-755 Release the door



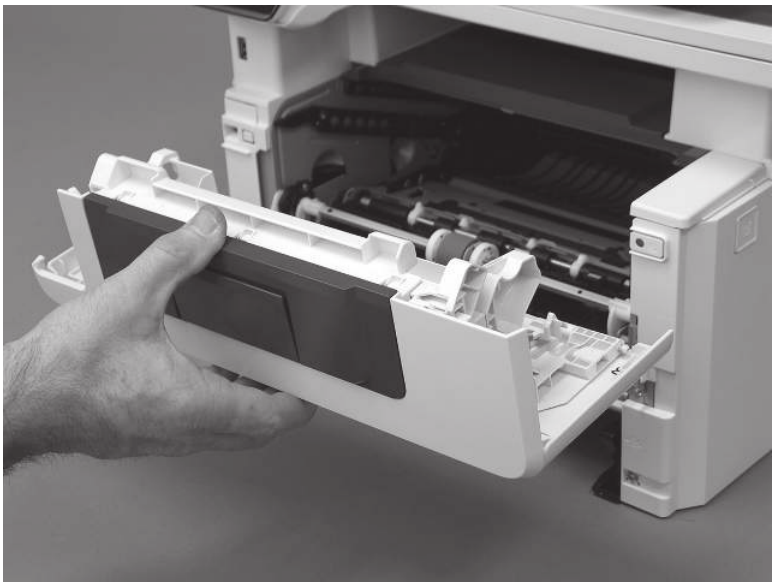
f. Rotate the door away from the printer until the keyed pin on the left-side retainer arm can disengage from the door.

Figure 1-756 Release the left-side retainer arm



g. Remove the door.

Figure 1-757 Remove the door



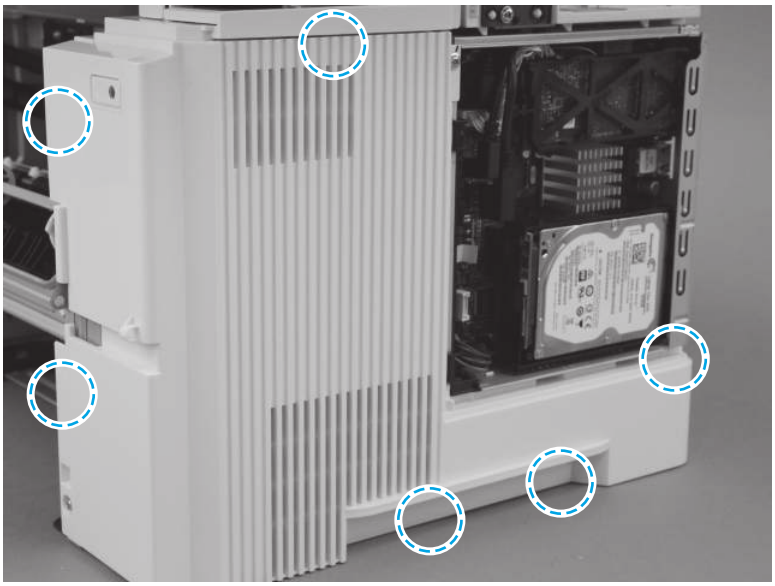
13. Remove the right cover.

IMPORTANT: The black-plastic cassette front and rear guides (located inside the tray cavity) can be easily dislodged. Do not lose the guides when the cover is removed or installed.

An MFP printer is shown in this section. However, the procedure is correct for all printer models.

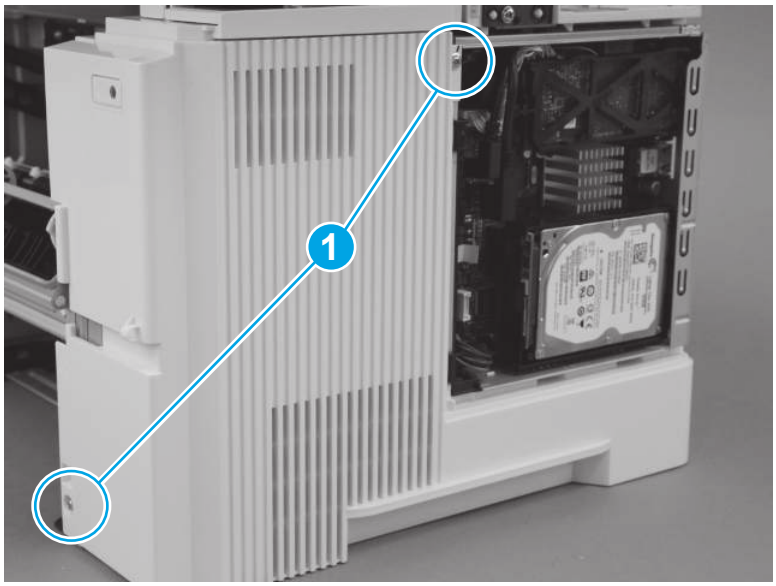
a. Before proceeding, take note of the location of the tabs and bosses on the inside of the cover.

Figure 1-758 Locate the tabs and bosses



b. Remove two screws (callout 1).

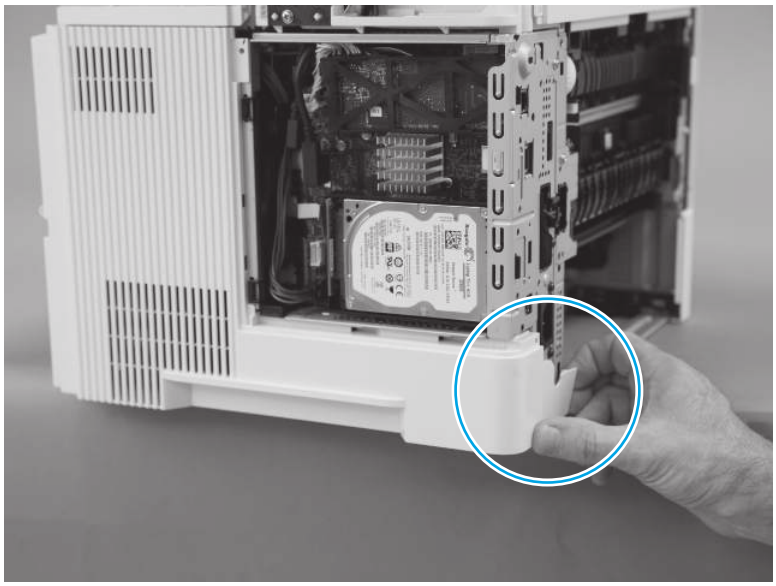
Figure 1-759 Remove two screws



c. At the rear of the printer, release one boss.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

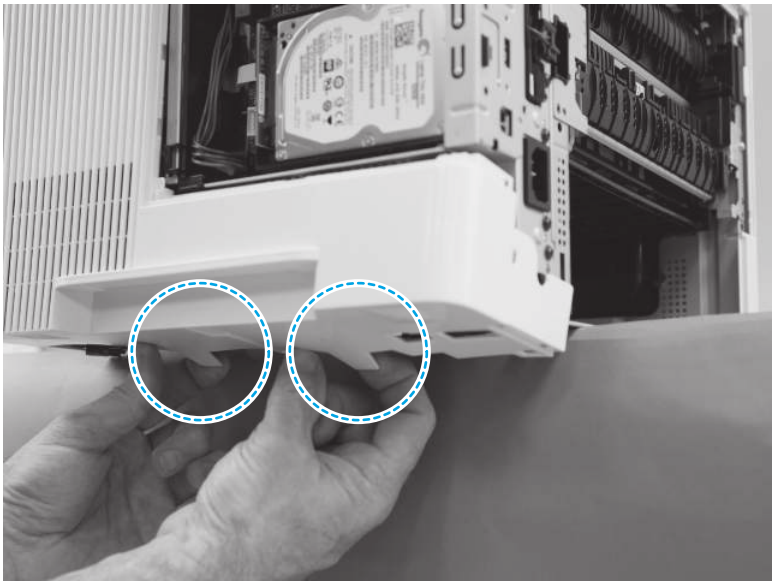
Figure 1-760 Release one boss



d. At the bottom edge of the cover, release two bosses.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

Figure 1-761 Release two bosses

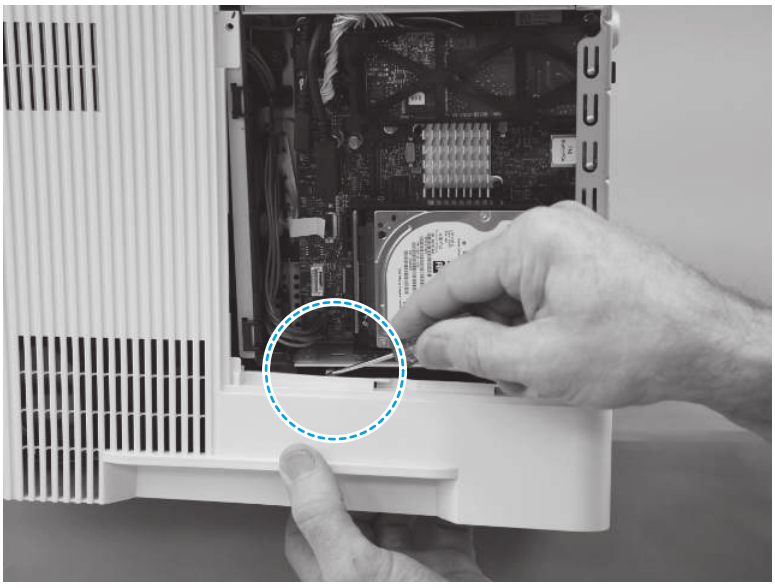


e. Near the formatter, release one tab.

CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

TIP: Hold the bottom of the cover away from the printer, and then use a small flat-blade screw driver to easily release this tab.

Figure 1-762 Release one tab

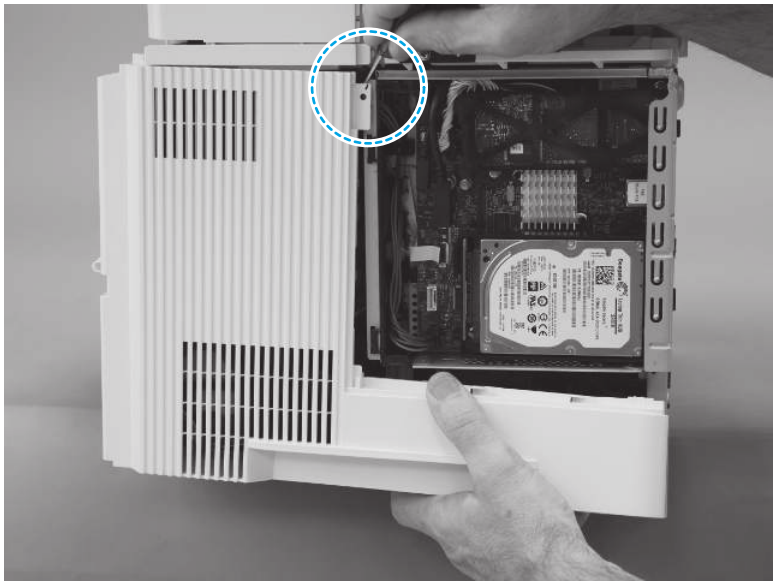


f. At the top rear edge of the cover, release one tab.

CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

TIP: Use a small flat-blade screw driver to easily release this tab.

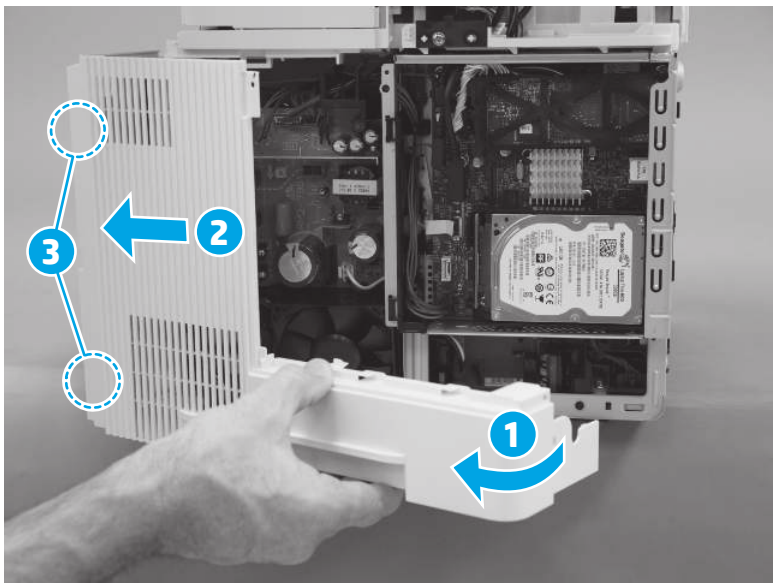
Figure 1-763 Release one tab



g. Rotate the rear of the cover away from the printer (callout 1), slide the cover toward the front of the printer (callout 2) to release two bosses (callout 3), and then remove the cover.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

Figure 1-764 Remove the cover



14. Remove the left cover.

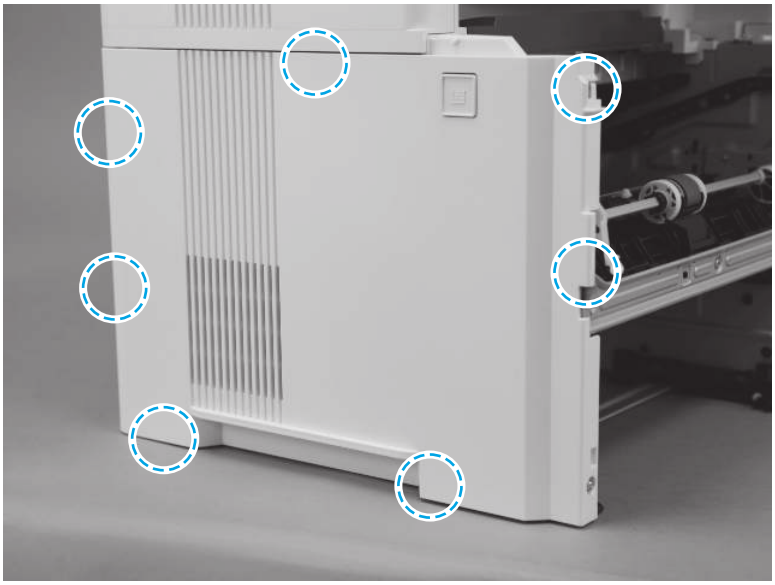
IMPORTANT: The black-plastic cassette front and rear guides (located inside the tray cavity) can be easily dislodged. Do not lose the guides when the cover is removed or installed.

NOTE: An MFP printer is shown in this section. However, the procedure is correct for all printer models.

a. Before proceeding, take note of the location of the tabs and bosses on the inside of the cover.

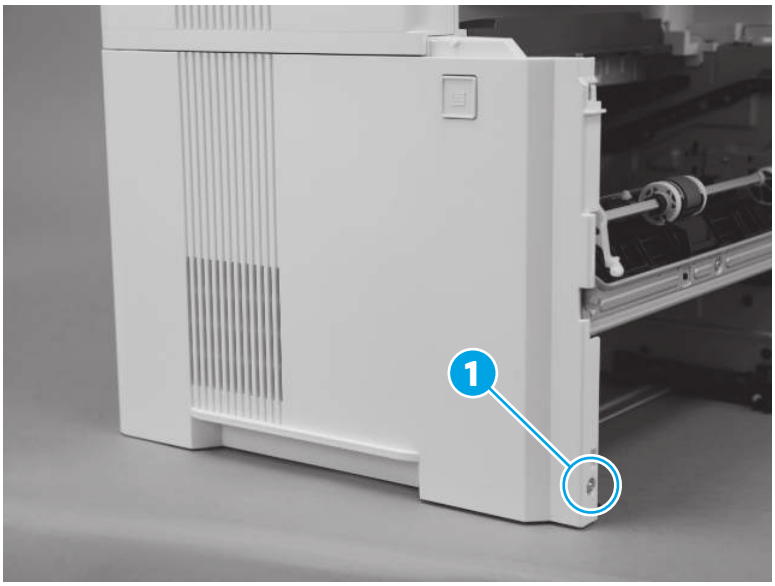
Reinstallation tip: When reinstalling the cover, take note of the location of the tabs and bosses on the inside of the cover.

Figure 1-765 Locate of the tabs and bosses



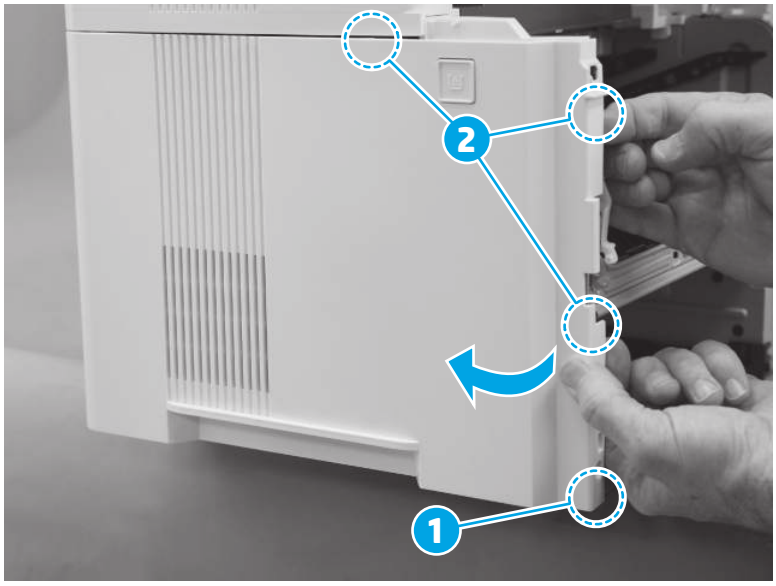
b. Remove one screw (callout 1).

Figure 1-766 Remove one screw



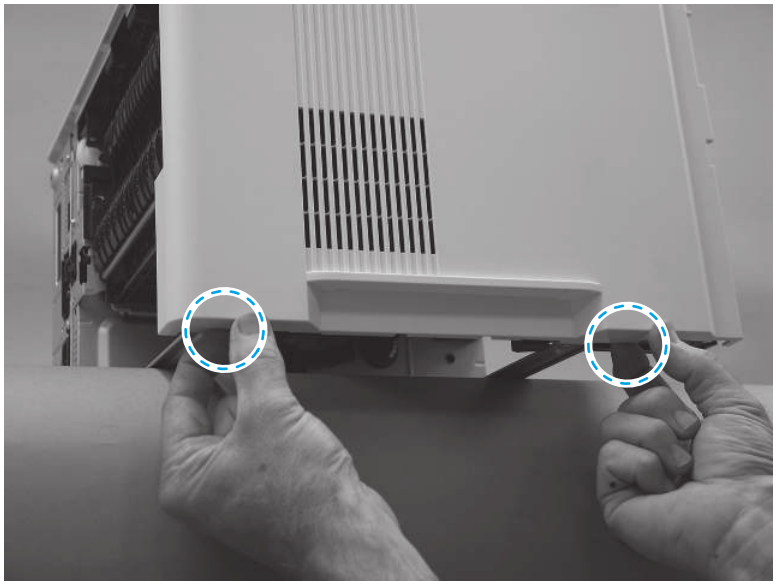
c. At the front of the printer, release one boss (callout 1), and then rotate the front edge of the cover away from the printer to release three tabs (callout 2).

Figure 1-767 Release one boss and three tabs



d. At the bottom edge of the cover, release two tabs.

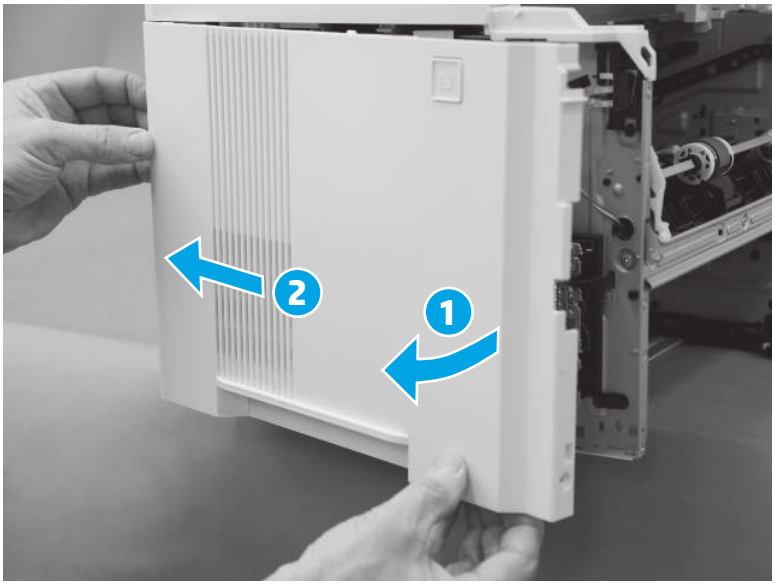
Figure 1-768 Release two tabs



e. Continue to rotate the front edge of the cover away from the printer (callout 1), and then slide the cover toward the rear of the printer (callout 2) to remove it.

NOTE: If the cover is difficult to rotate or slide as shown below, make sure that the bottom tabs (released in the previous step) are completely disengaged from the chassis.

Figure 1-769 Remove the cover



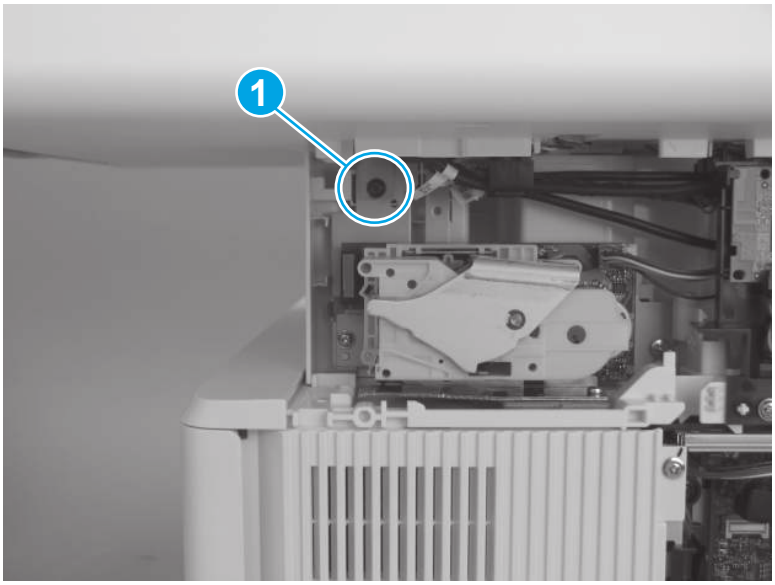
15. Remove the integrated-scanner assembly (ISA) (M527/E52545/M528/E52645).

NOTE: The ISA includes the document feeder, sub-scanner assembly (SSA), and the scanner control board (SCB).

a. Remove one screw (callout 1).

IMPORTANT: This screw fastens the ISA ground plate to the printer chassis. Do not lose this screw.

Figure 1-770 Remove one screw

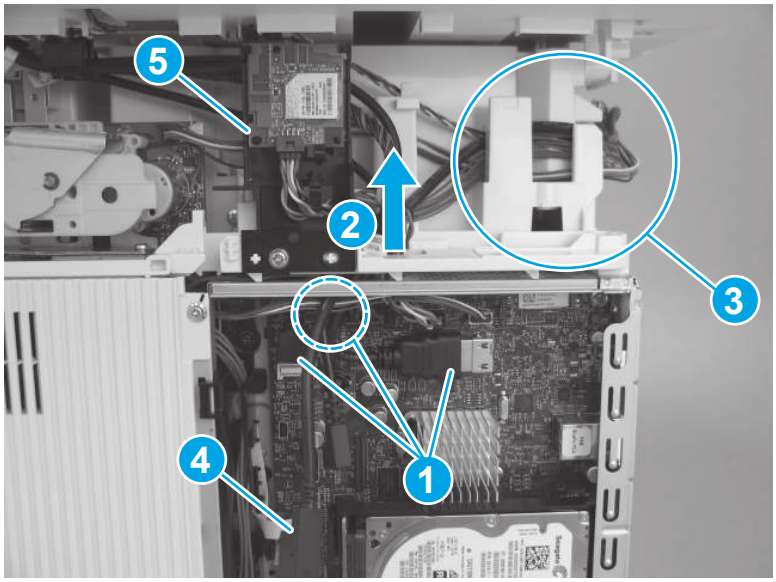


b. Disconnect three connectors (callout 1), pass the wire harnesses and cables through the opening in the cover (callout 2), and then release them from the retainers (callout 3).

NOTE: One cable (callout 4) does not need to pass through the opening in the cover.

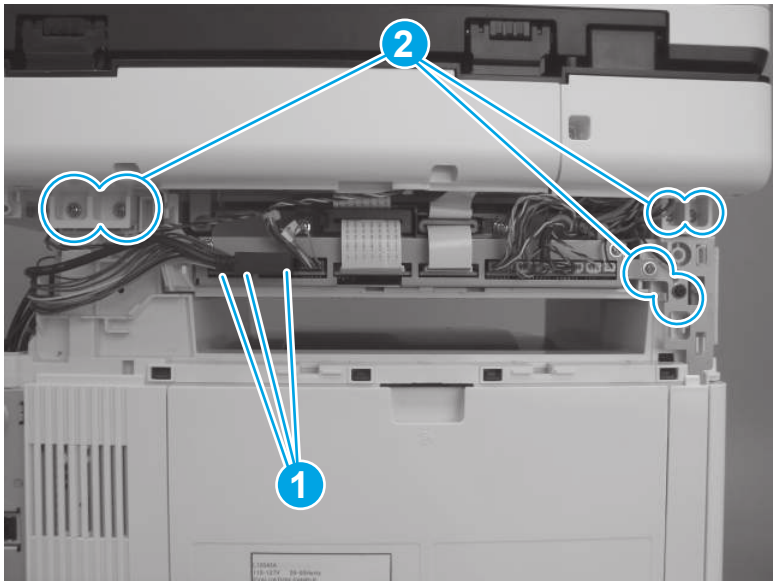
TIP: It might be easier if the WiFi PCA and holder (not all models; callout 5) is detached from the printer, and then moved out of the way.

Figure 1-771 Disconnect cables and connectors



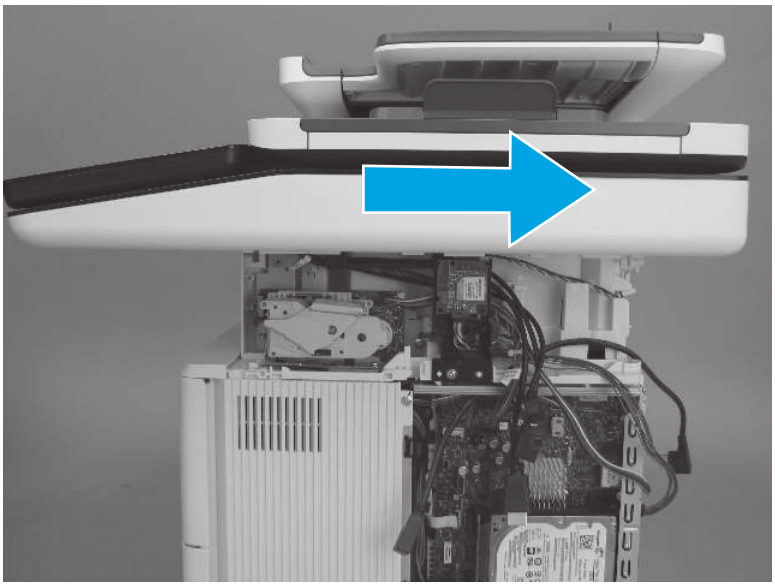
c. Disconnect three connectors (callout 1), and then remove six screws (callout 2).

Figure 1-772 Disconnect connectors and remove screws



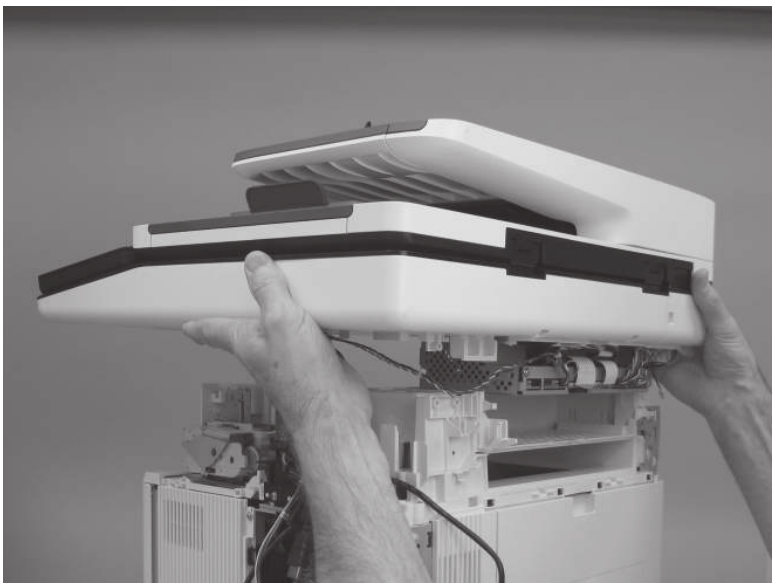
d. Slightly slide the ISA towards the back of the printer to release it.

Figure 1-773 Slide the ISA towards the back of the printer



e. Remove the ISA.

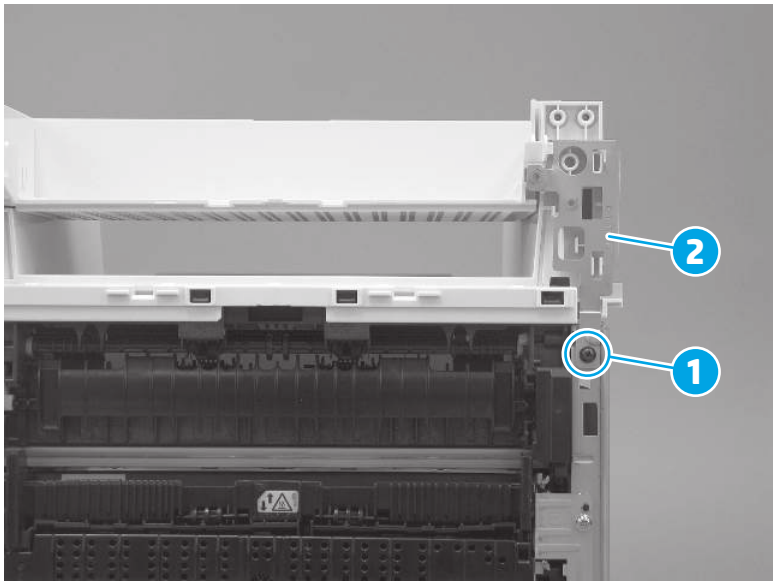
Figure 1-774 Remove the ISA



16. Remove the top cover (M527/E52545/M528/E52645).

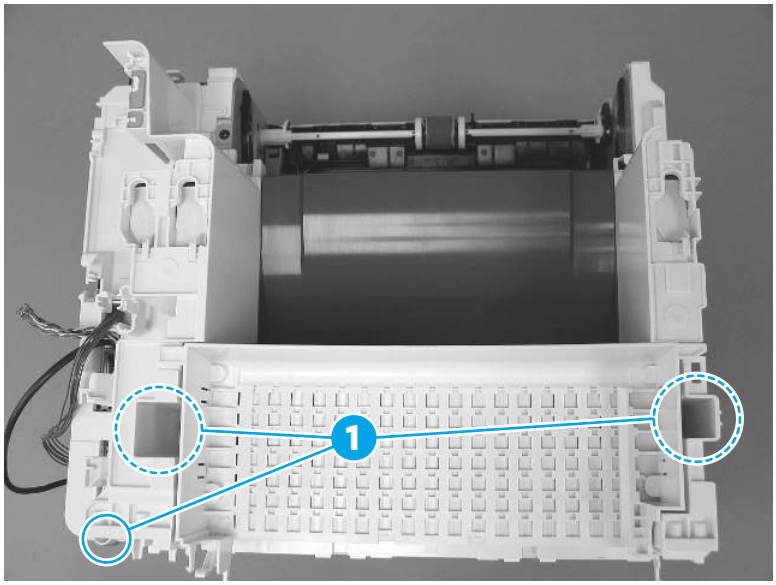
a. At the front right of the printer, remove one screw (callout 1), and then remove the sheet-metal plate (callout 2).

Figure 1-775 Remove one screw and the plate



b. At the top rear of the printer, remove three screws (callout 1).

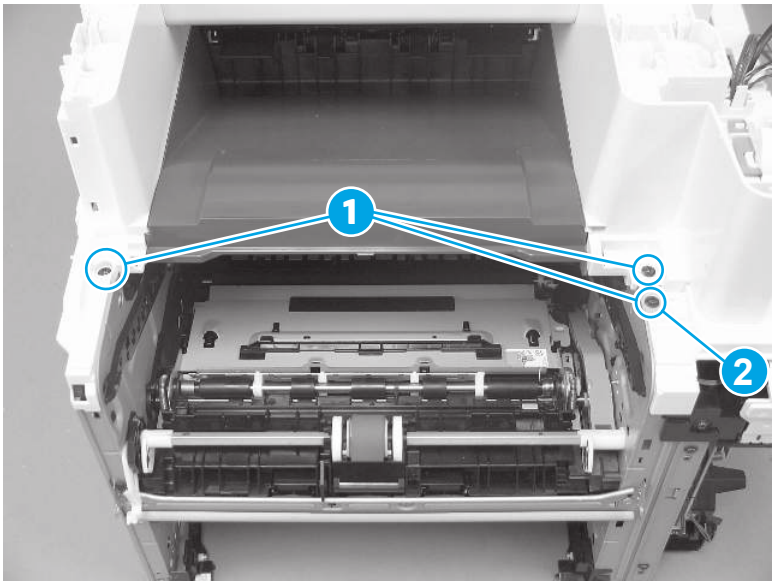
Figure 1-776 Remove three screws



c. At the top front of the printer, remove three screws (callout 1).

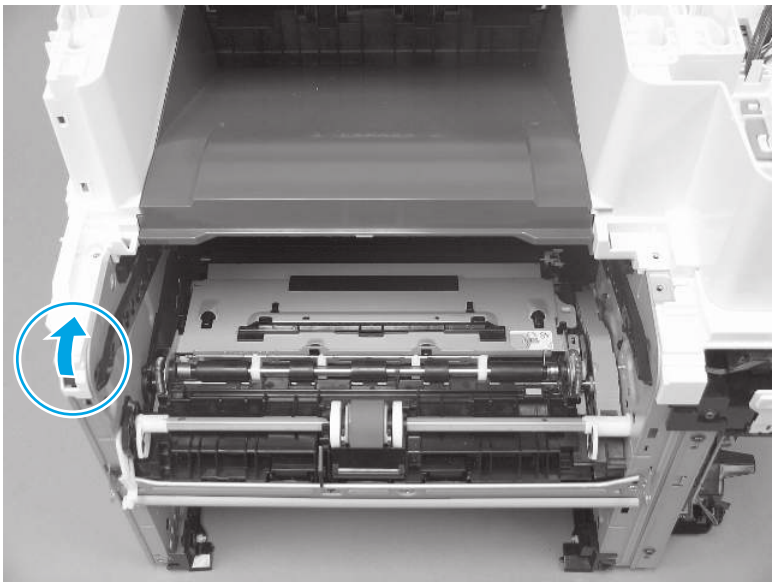
NOTE: The screw (callout 2) on the lower-right portion of the cover is a different color than the other two screws, and is surrounded by sheet-metal. It might appear that this screw does not need to be removed. Remove this screw.

Figure 1-777 Remove three screws



d. At the front left of the printer, release one boss.

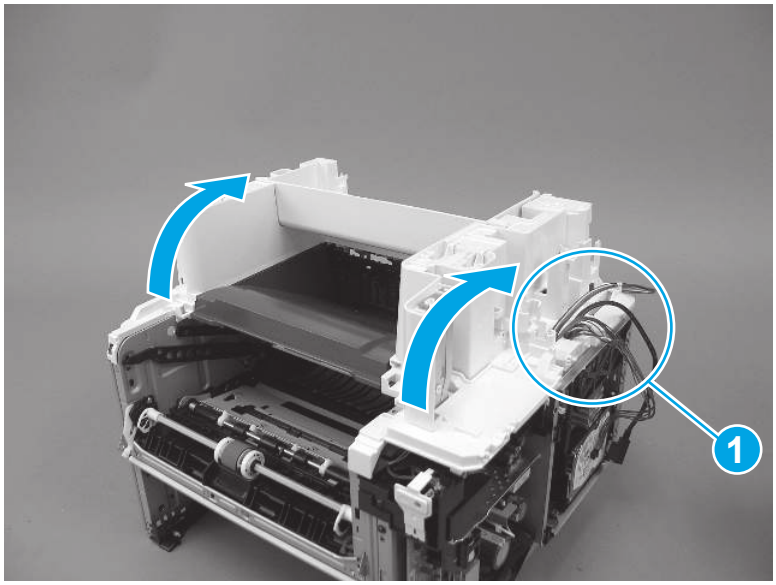
Figure 1-778 Release one boss



e. Rotate the front of the cover up and away from the printer.

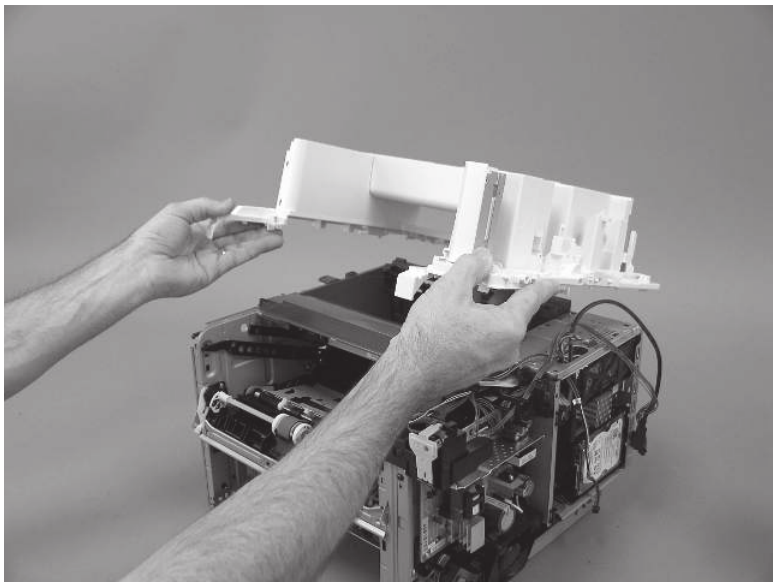
⚠ CAUTION: As the cover is rotated up, carefully pass the cables and wire harnesses the hole in the cover (callout 1).

Figure 1-779 Rotate the front of the cover up



f. Remove the cover.

Figure 1-780 Remove the cover

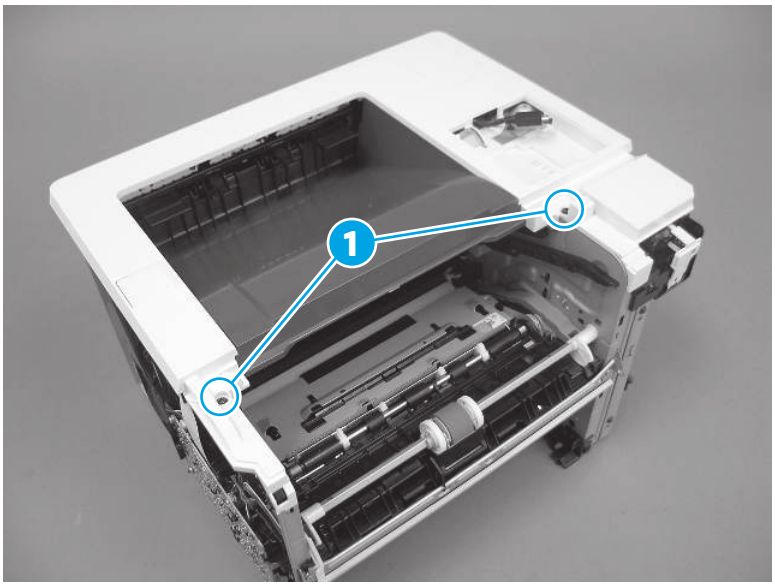


17. Remove the top cover (M501/M506/E50045/M507/E50145).

    The M506x/E50045x is shown in this procedure. However, the steps are correct for all M506/E50045/M507/E50145 models and the M501 printer.

a. Remove two screws (callout 1).

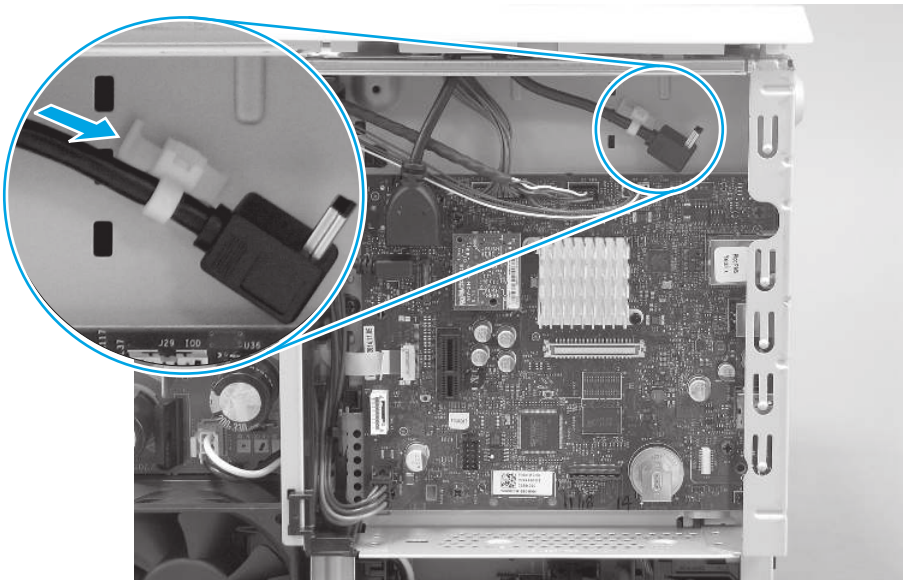
Figure 1-781 Remove two screws



b. **M506/E50045/ only**: Release one cable retainer from the chassis.

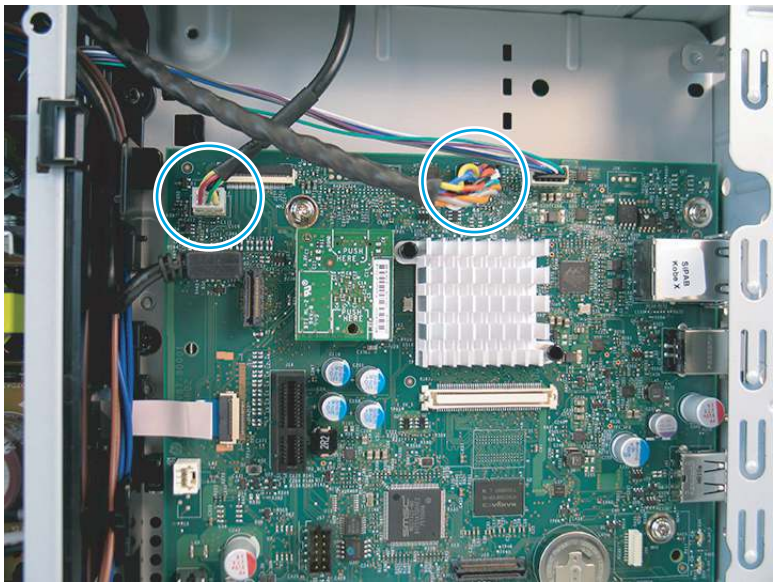
TIP: Depress the tab on the retainer to release it.

Figure 1-782 Release one cable retainer



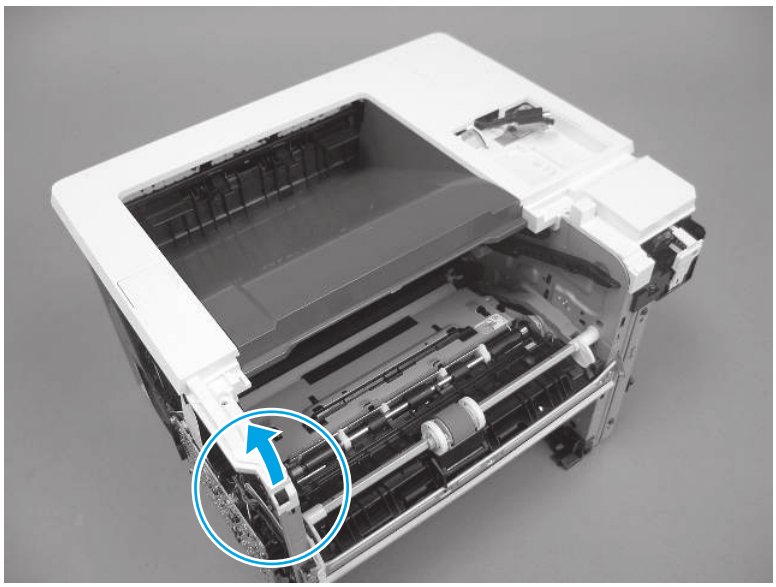
c. **M507/E50145 only**: Disconnect two connectors.

Figure 1-783 Disconnect two connectors



d. Release one boss.

Figure 1-784 Release one boss

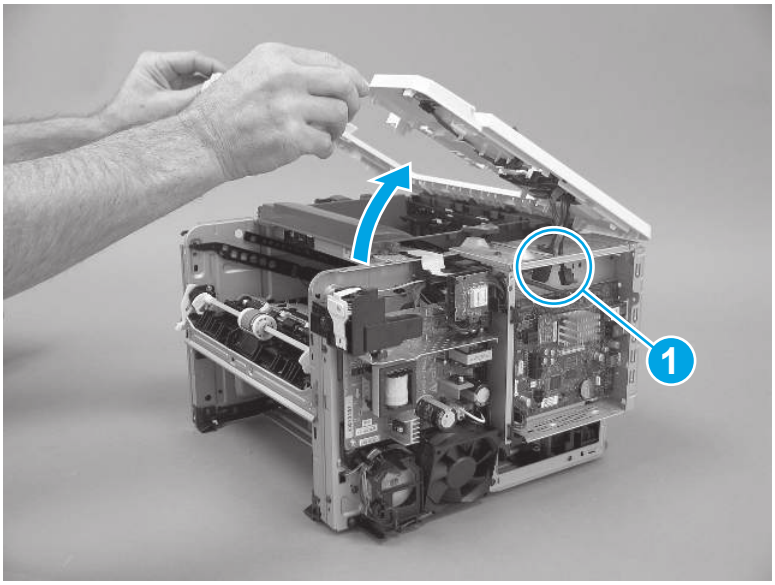


e. **M506/E50045/ only**: Rotate the front of the cover up and away from the printer, and then remove the cover.

⚠ CAUTION: **M506x/E50045x only**: As the cover is rotated up, carefully pass the cables the hole in the chassis (callout 1).

NOTE: **LCD control panel models only**: Disconnect the control panel before removing the cover.

Figure 1-785 Remove the cover (M506/E50045)



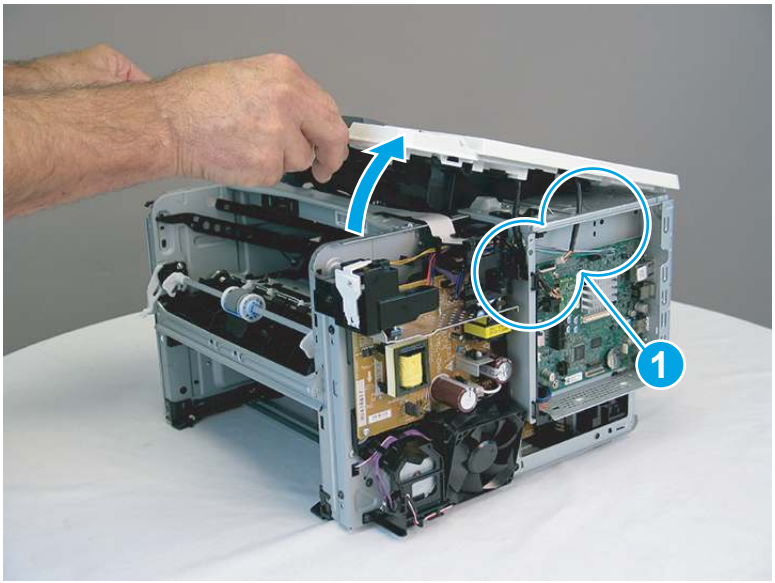
f. M507/E50145only: Rotate the front of the cover up and away from the printer, and then remove the cover.

CAUTION: M507x/E50145x only: As the cover is rotated up, carefully pass the cables the hole in the chassis (callout 1).

IMPORTANT: If the top cover is being replaced, make sure to transfer the WiFi PCA from the discarded cover to the replacement cover.

NOTE: LCD control panel models only: Disconnect the control panel before removing the cover.

Figure 1-786 Remove the cover (M507/E50145)

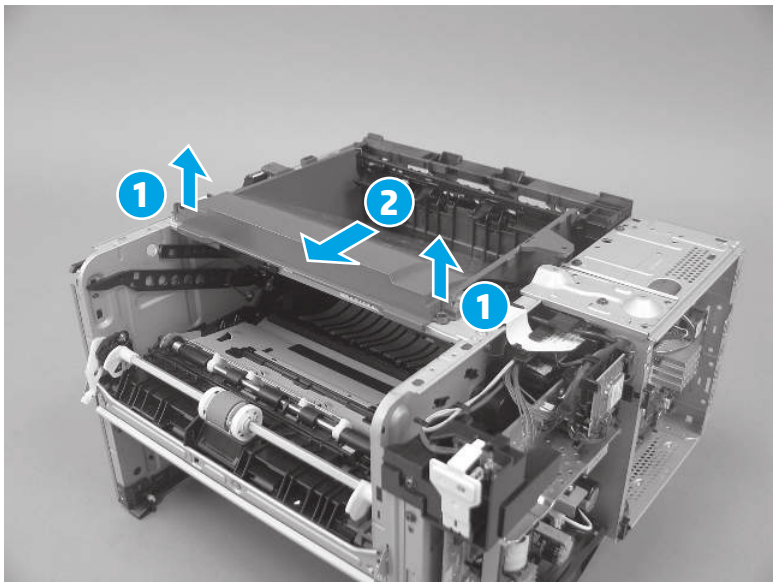


18. Remove the paper delivery tray (output bin).

NOTE: A SFP printer is shown in this section. However, the procedure is correct for all printer models.

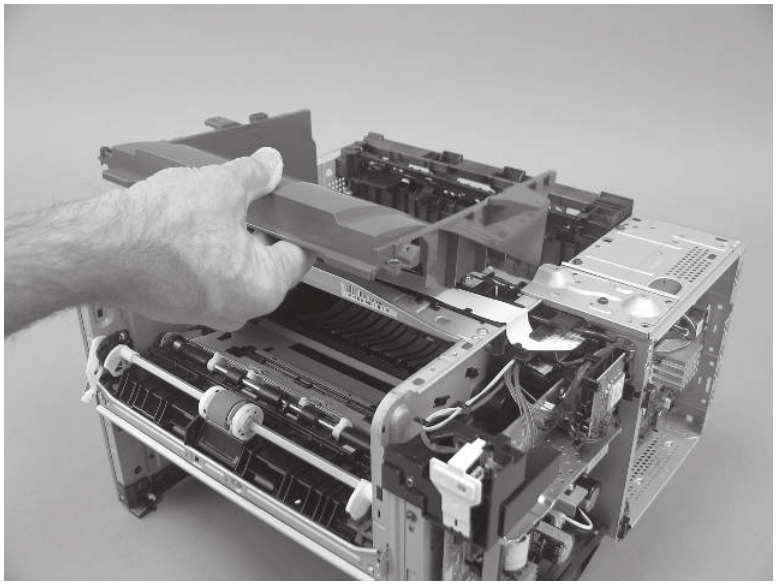
a. Release two tabs (callout 1), and then slide the cover toward the front of the printer (callout 2).

Figure 1-787 Release two tabs



b. Remove the bin.

Figure 1-788 Remove he bin

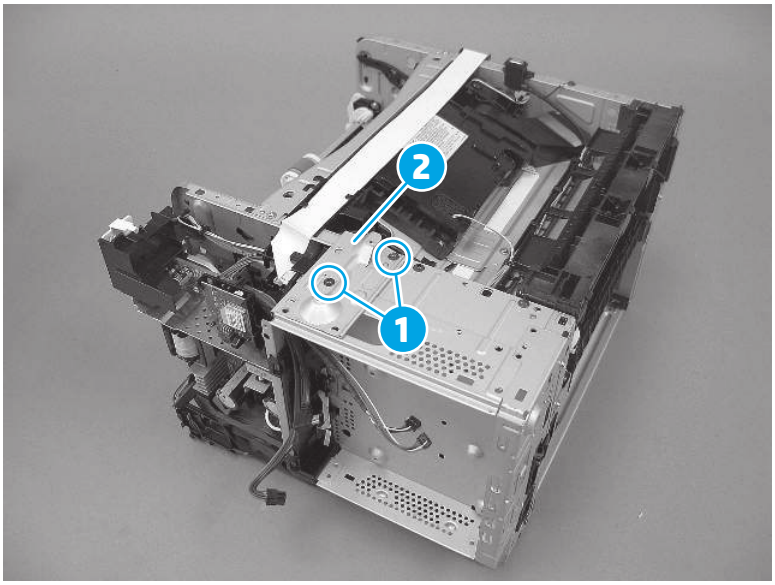


19. Remove the formatter case.

a. **M506/E50045/M507/E50145 only**: Remove two screws (callout 1), and then remove the sheet-metal plate (callout 2).

NOTE: **M507/E50145 only**: The M507/E50145 sheet-metal plate includes a separate black plastic cable guide (not shown). Do not lose the guide when removing the plate.

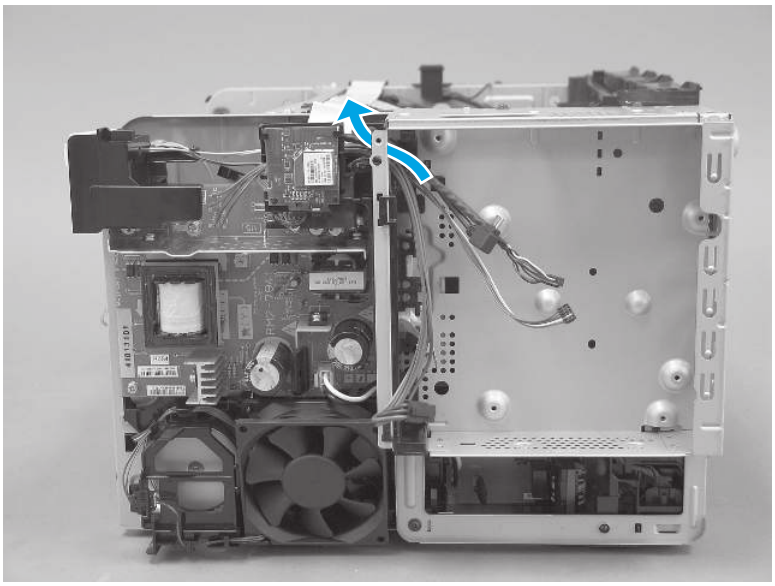
Figure 1-789 Remove the sheet-metal plate



b. Carefully pass all cables and wire harnesses through the opening in the formatter case.

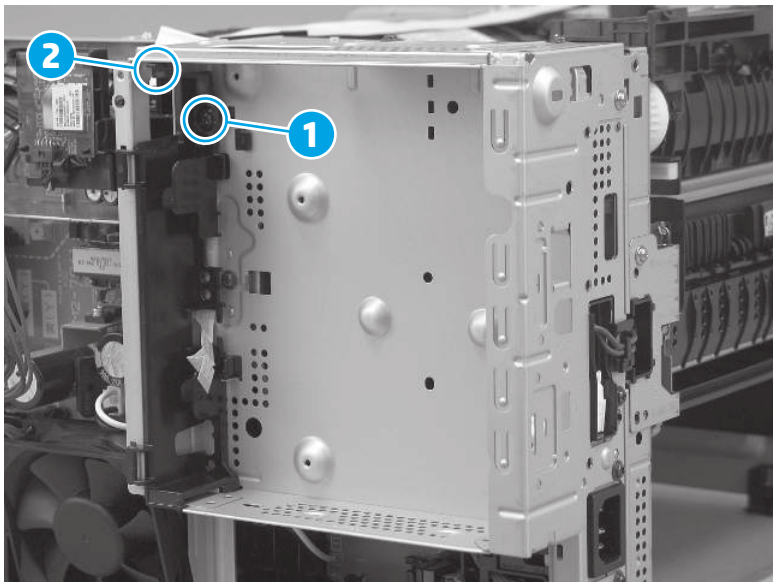
NOTE: A SFP printer is shown in this section. However, the procedure is correct for all printer models.

Figure 1-790 Pass all cables and wire harnesses through the opening



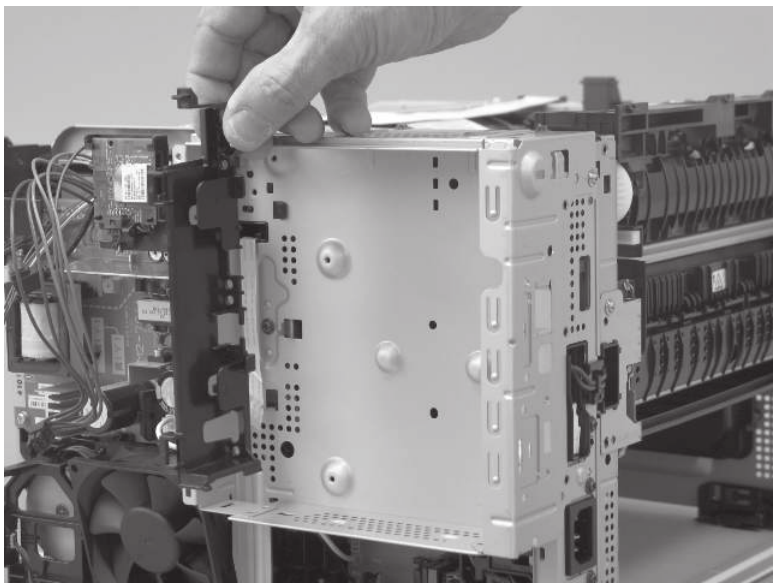
c. Remove one screw (callout 1), and then push down on one tab (callout 2) to release it.

Figure 1-791 Remove one screw



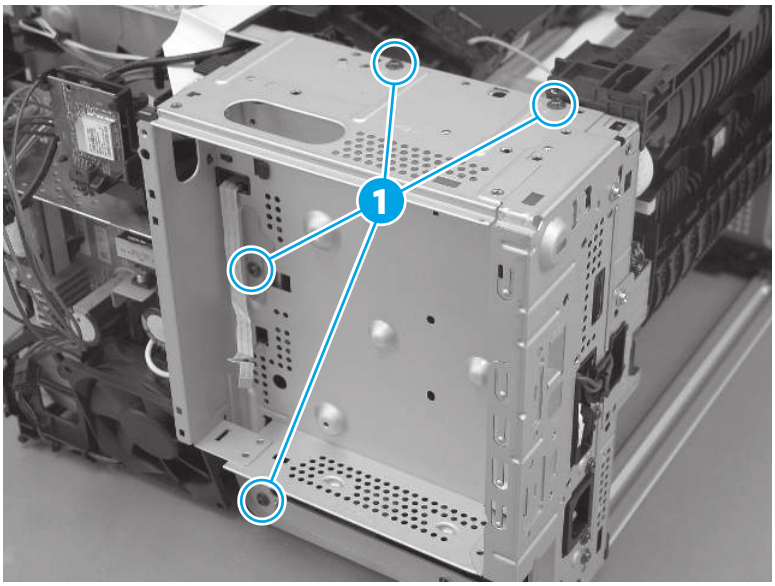
d. Remove the guide.

Figure 1-792 Remove the guide



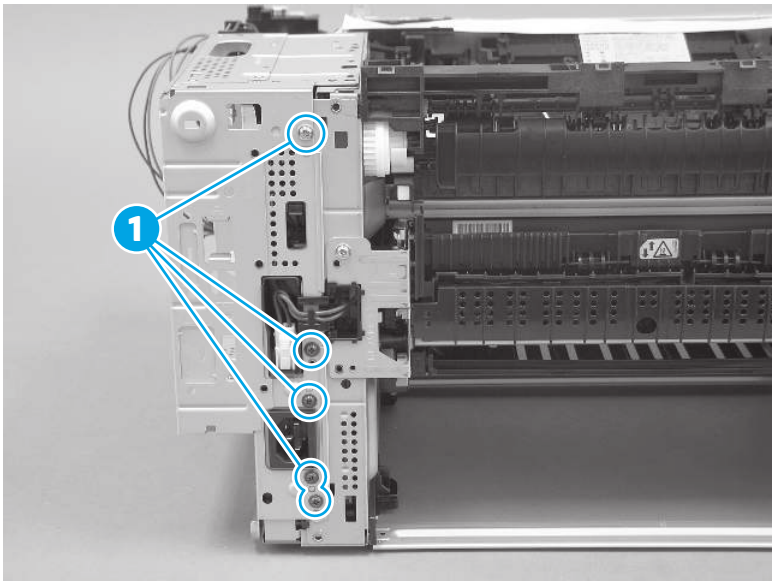
e. Remove four screws (callout 1).

Figure 1-793 Remove four screws



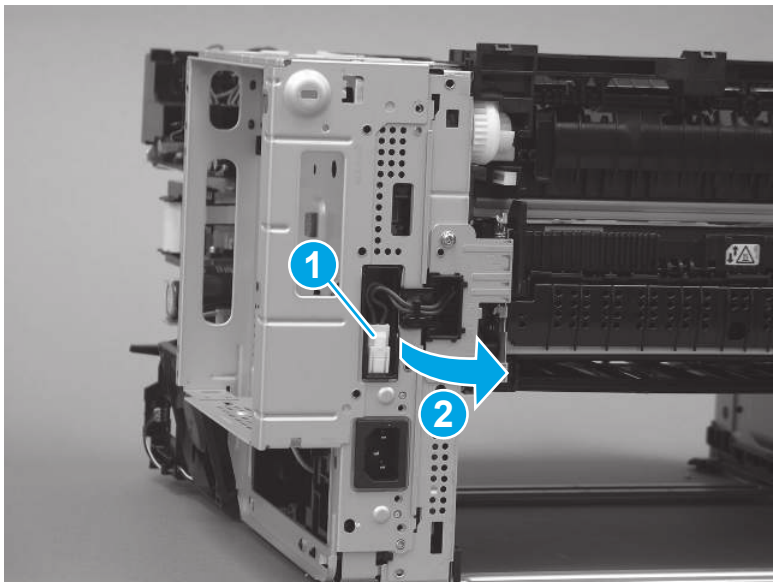
f. Remove five screws (callout 1).

Figure 1-794 Remove five screws



g. Disconnect one connector (callout 1), and then move the guide out of the way (callout 2).

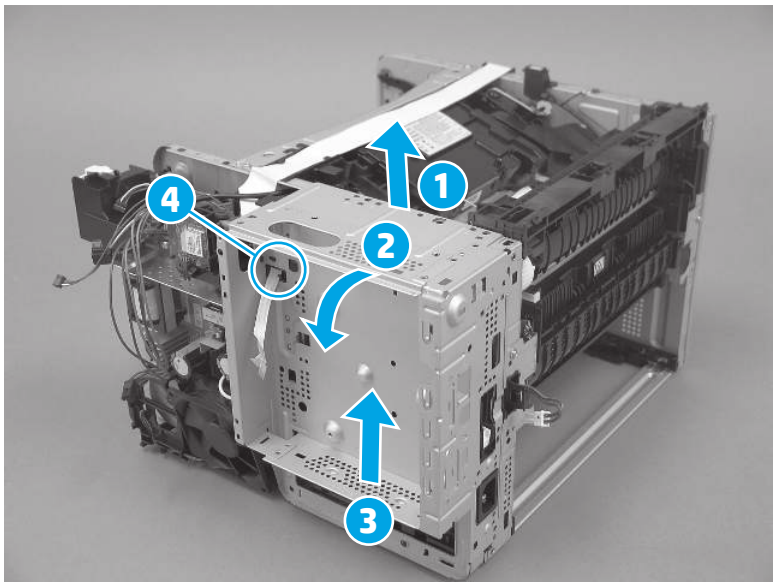
Figure 1-795 Disconnect one connector



h. Slightly lift up the formatter case (callout 1), rotate the top of the case away from the chassis (callout 2), and then lift up the case to release it (callout 3).

⚠ CAUTION: Pass the FFC through the opening (callout 4) in the formatter while removing the case.

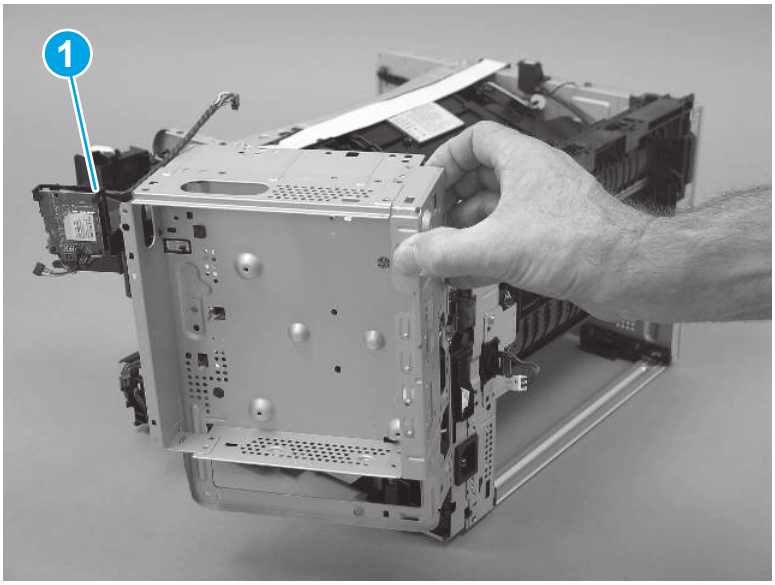
Figure 1-796 Release the formatter case



i. Remove the formatter case.

NOTE: **WiFi models only**: If the formatter case is being replaced, make sure that the WiFi PCA and bracket (callout 1) are transferred to the replacement case.

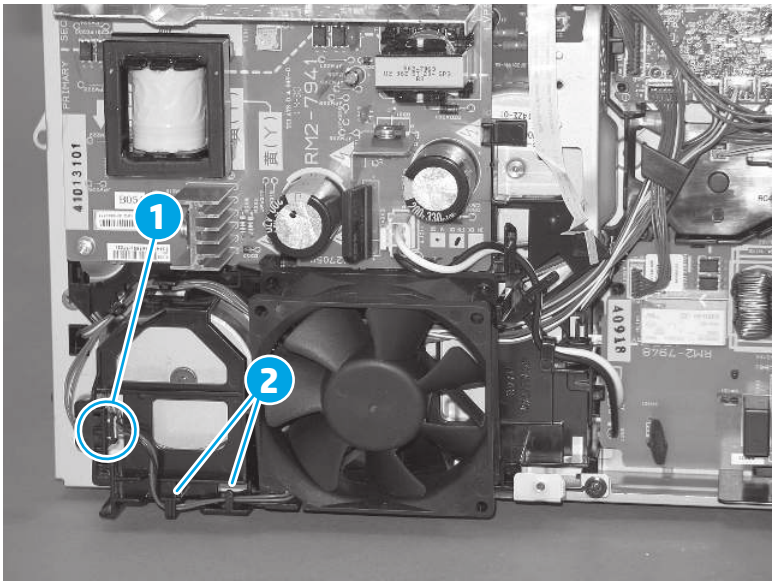
Figure 1-797 Remove the formatter case



20. Remove the fan (FM2).

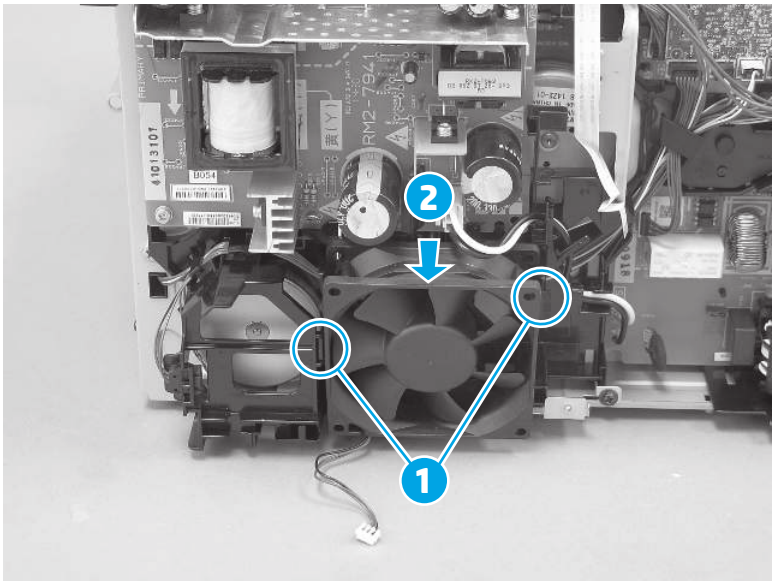
    a. Disconnect one connector (callout 1), and then release the wire harness from the retainer (callout 2).

Figure 1-798 Disconnect one connector



b. Release two tabs (callout 1), and then rotate the top of the fan out and away from the printer (callout 2).

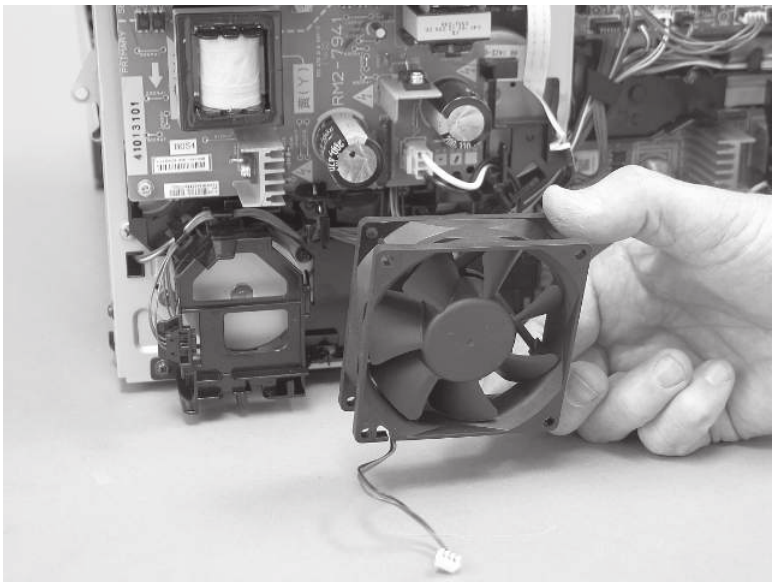
Figure 1-799 Release two tabs



c. Remove the fan.

⚠ CAUTION: When reinstalled the fan must draw air into the printer. Make sure that the two arrows embossed on the right side of the fan body face downward and into the printer.

Figure 1-800 Remove the fan



21. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Removal and replacement: Fuser power supply (FPS)

Learn how to remove and replace the fuser power supply (FPS).

To view a short video of this procedure, click the link below.

M501

View a video of how to remove and replace the FPS (M501).

M506/E50045

View a video of how to remove and replace the FPS (M506/E50045).

M507/E50145

View a video of how to remove and replace the FPS (M507/E50145).

M527/E52545/M528/E52645

View a video of how to remove and replace the FPS (M527/E52545/M528/E52645).

Mean time to repair: 12 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

WARNING! To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-39 Part information

Part number	Part description
RM2-7948-000CN	Fixing (fuser) power supply (FPS; 110V-127V)
RM2-7949-000CN	Fixing (fuser) power supply (FPS; 220V-240V)

Required tools

- Small flat-blade screwdriver
- #2 Phillips screwdriver with a magnetic tip and a 152 mm (6 in) shaft length

After performing service

Turn the printer power on

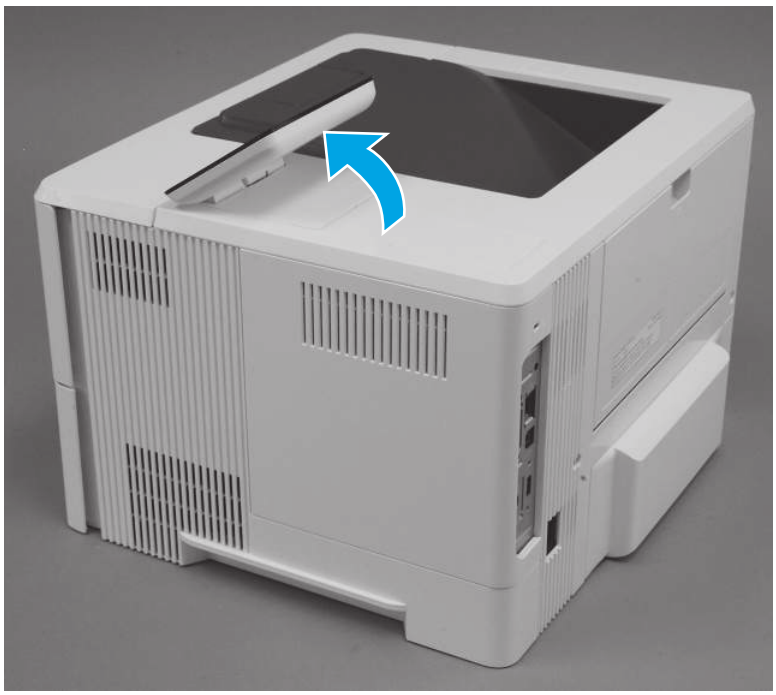
- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

Make sure that the printer initializes to a **Ready** state.

1. Remove the control panel (M506x/E50045x/M507x/E50145x).
   a. Tilt the control panel to the fully raised position.

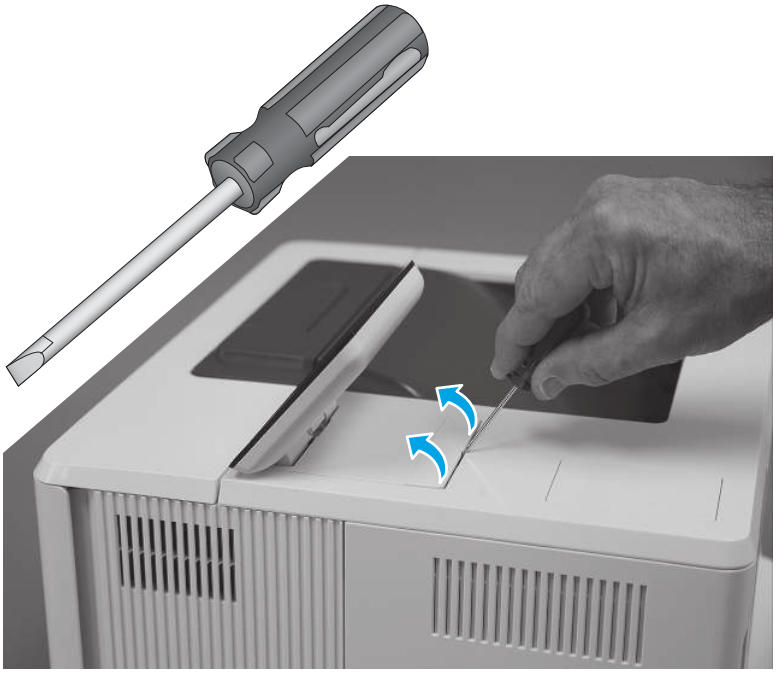
Figure 1-801 Tilt the control panel up



b. Use the small flat-blade screwdriver supplied in the kit to release the control-panel screws cover, and then remove the cover.

TIP: The screwdriver has a reversible shaft. Simply pull the shaft out of the handle, and then reinstall it with the desired end facing out.

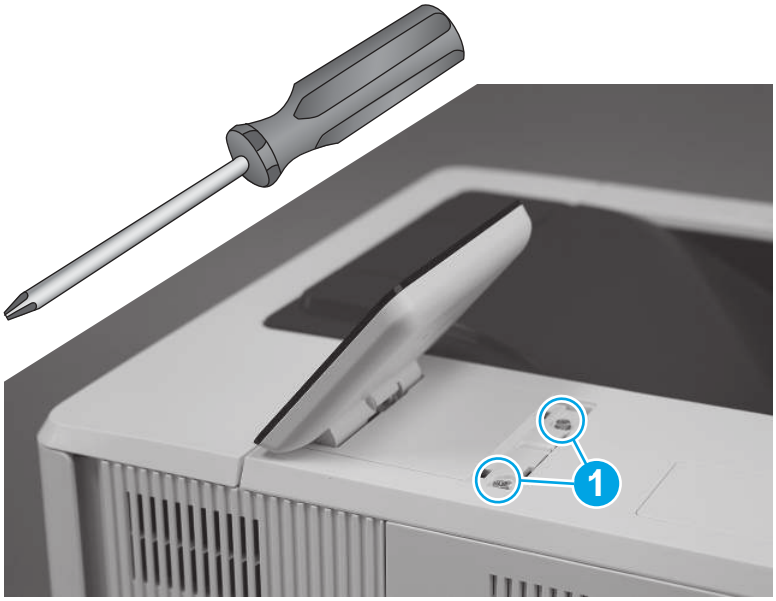
Figure 1-802 Remove the cover



c. Use the small Phillips screwdriver supplied in the kit to remove two screws (callout 1).

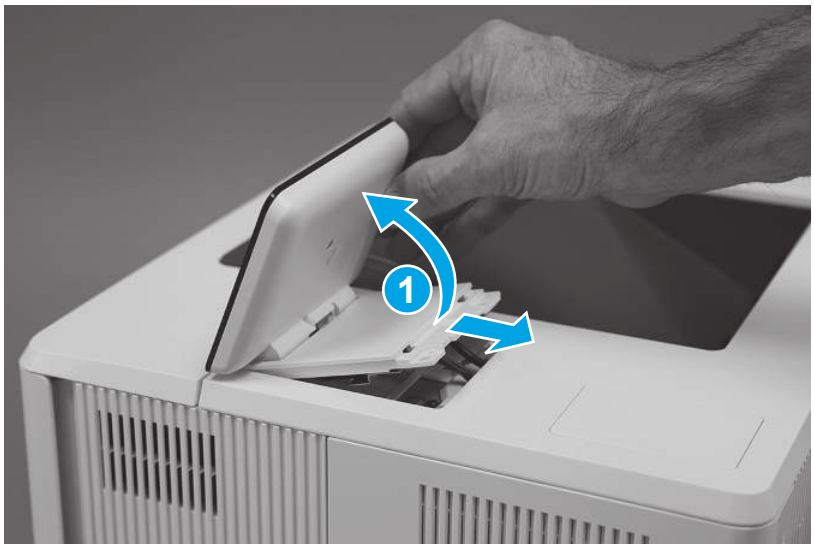
IMPORTANT: Store the screws in a secure place where they cannot fall down into the printer.

Figure 1-803 Remove two screws



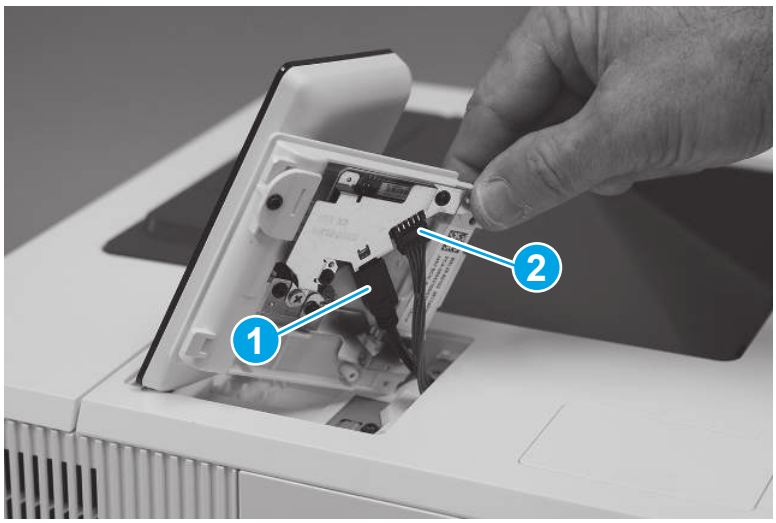
d. Turn the control panel over (callout 1), to gain access to the bottom side.

Figure 1-804 Turn the control panel over



e. **M506/E50045 only**: Disconnect one HDMI cable (callout 1), one connector (callout 2), and then remove the control panel.

Figure 1-805 Remove the control panel (M506/E50045)



f. **M507/E50154 only**: If the formatter cover has not been removed, remove it now. Disconnect one flat-flexible cable (FFC).

⚠ **CAUTION:** ESD sensitive part.

NOTE: This connector is a zero-insertion force (ZIF) connector. Open the locking clip. The clip is easily dislodged and lost.

Figure 1-806 Disconnect one FFC (M507/E50145)

g. **M507/E50145 only**: Pass the FFC through the opening in the cover, and then remove the control panel.

⚠ **CAUTION:** ESD sensitive part.

Figure 1-807 Remove the control panel (M507/E50145)

2. Remove the tray.

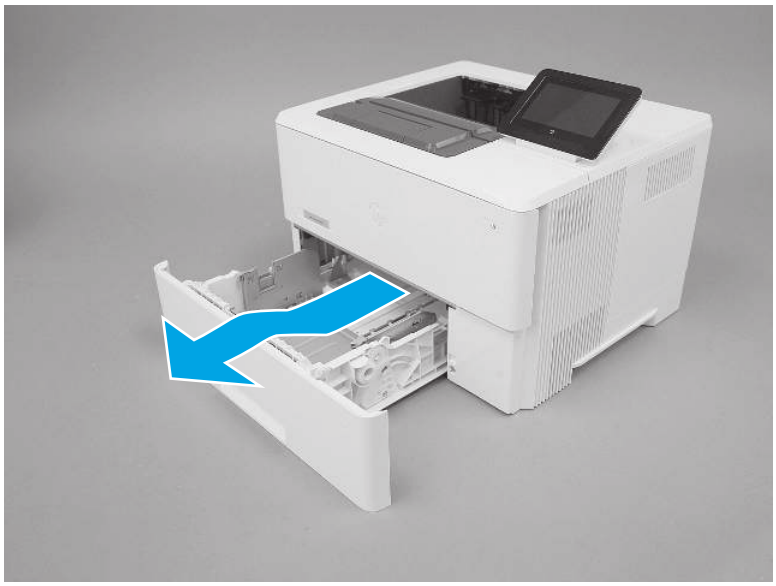
a. Pull the tray straight out of the printer until it stops.

Figure 1-808 Pull the tray out until it stops

b. Lift the front of the tray, and then pull it out of the printer to remove it.

NOTE: If the tray has Fixed Tray Guides installed and are still required, move the hardware to new tray. If necessary, order new kit: 3GY19-67901 Kit-Fixed Tray Guide. Only one kit required per engine.

Figure 1-809 Release and remove the tray

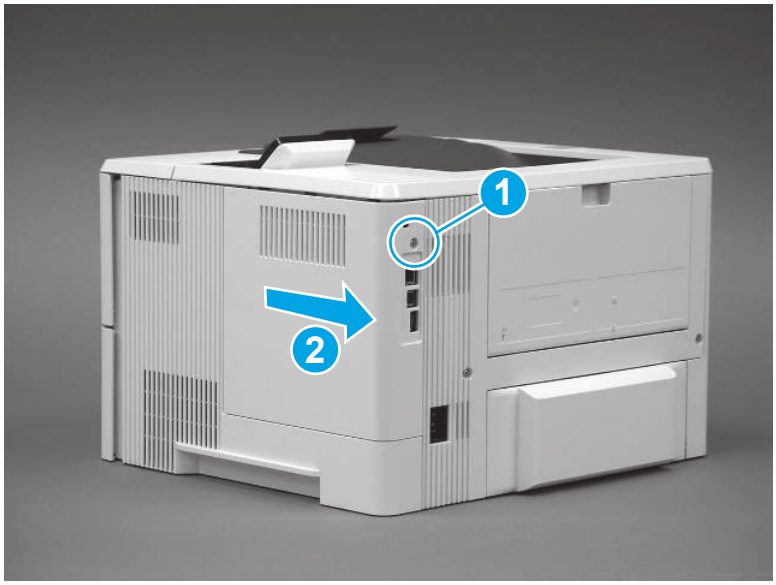


3. Remove the formatter cover.

▲ Do one of the following:

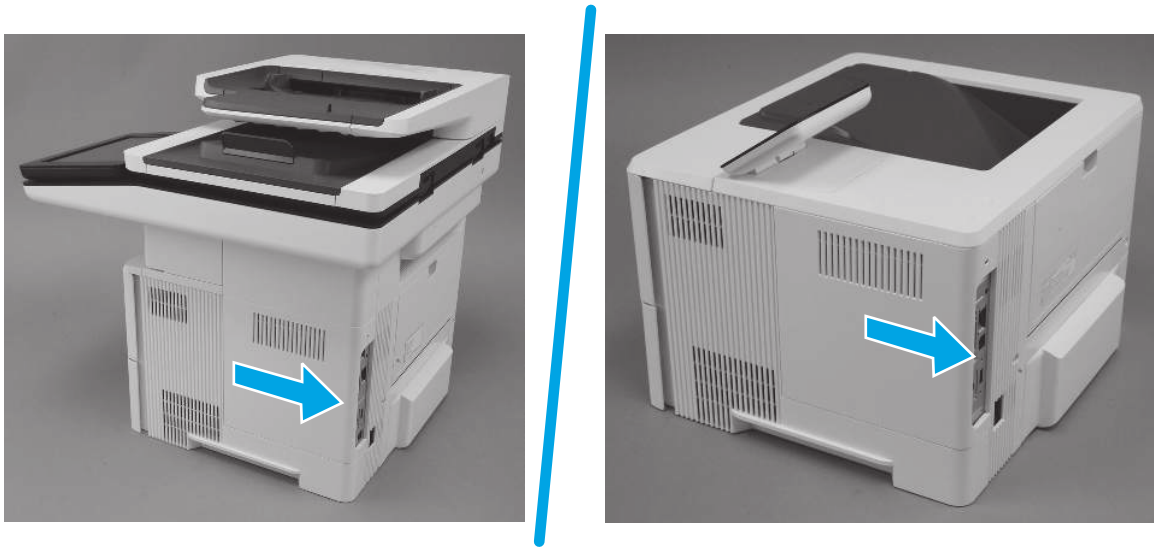
- M501: Remove one screw (callout 1), and then slide the cover toward the rear of the printer to remove it (callout 2).

Figure 1-810 Remove the formatter cover (M501)



- M506/E50045/M507/E50145/M527/E52545/M528/E52645: Slide the cover toward the rear of the printer to remove it.

  Figure 1-811 Remove the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)

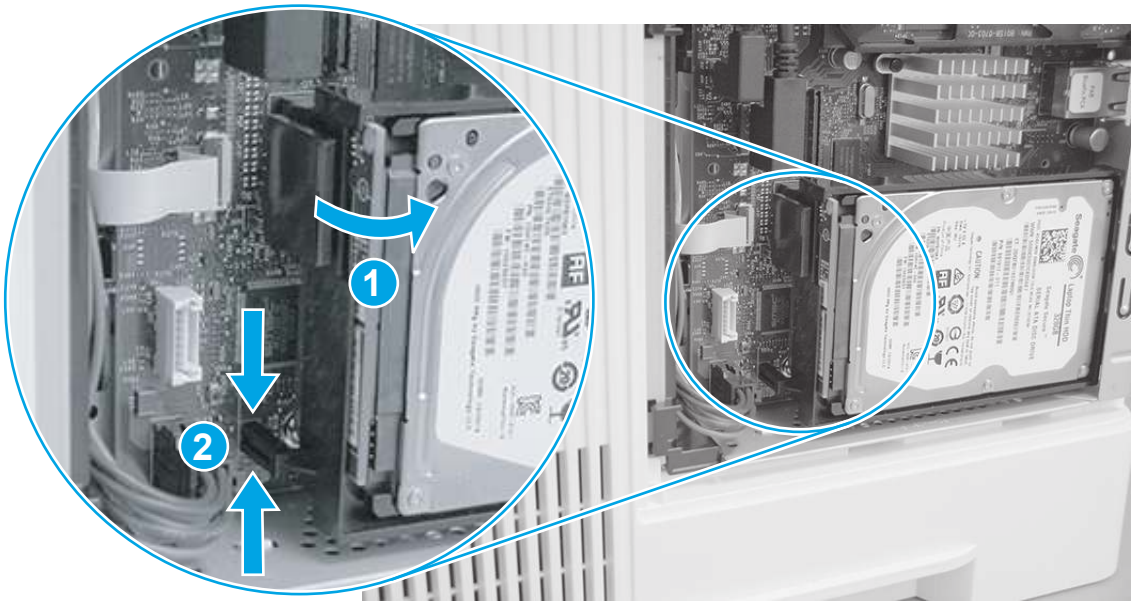


4. Remove the hard-disk drive (HDD models).

CAUTION: ESD sensitive part.

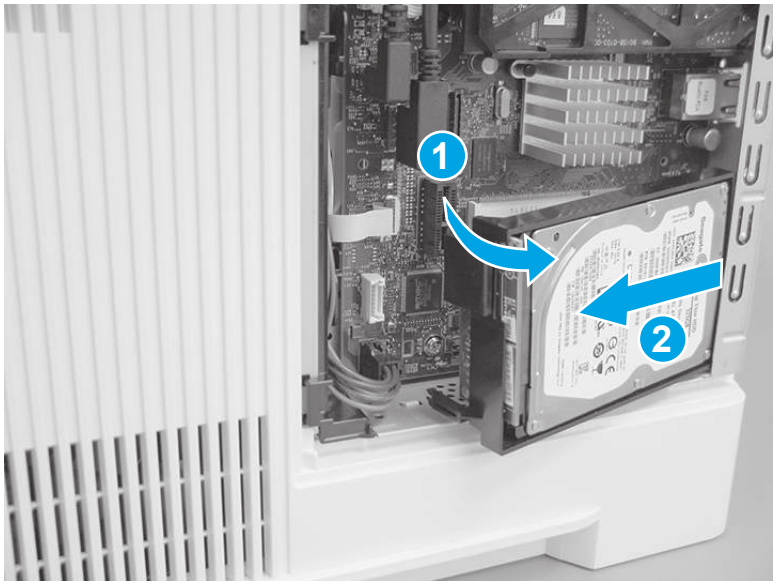
a. Release the locking connector (callout 1), and then pinch the retainer (callout 2) to release it.

Figure 1-812 Release the HDD



b. Rotate the connector end of the HDD out and away from the formatter (callout 1), and then slide it as shown (callout 2) to remove it.

Figure 1-813 Remove the HDD

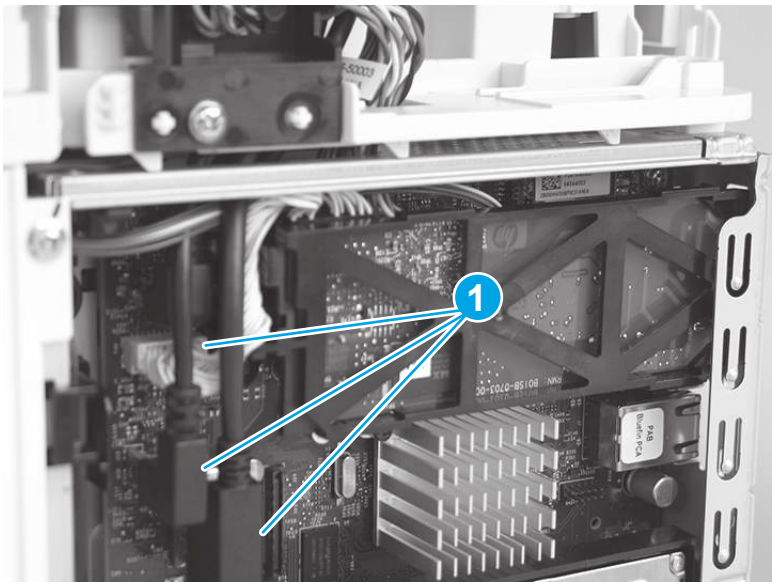


5. Remove the fax PCA (M527/E52545/M528/E52645 fax models).

⚠ CAUTION: ESD-sensitive part.

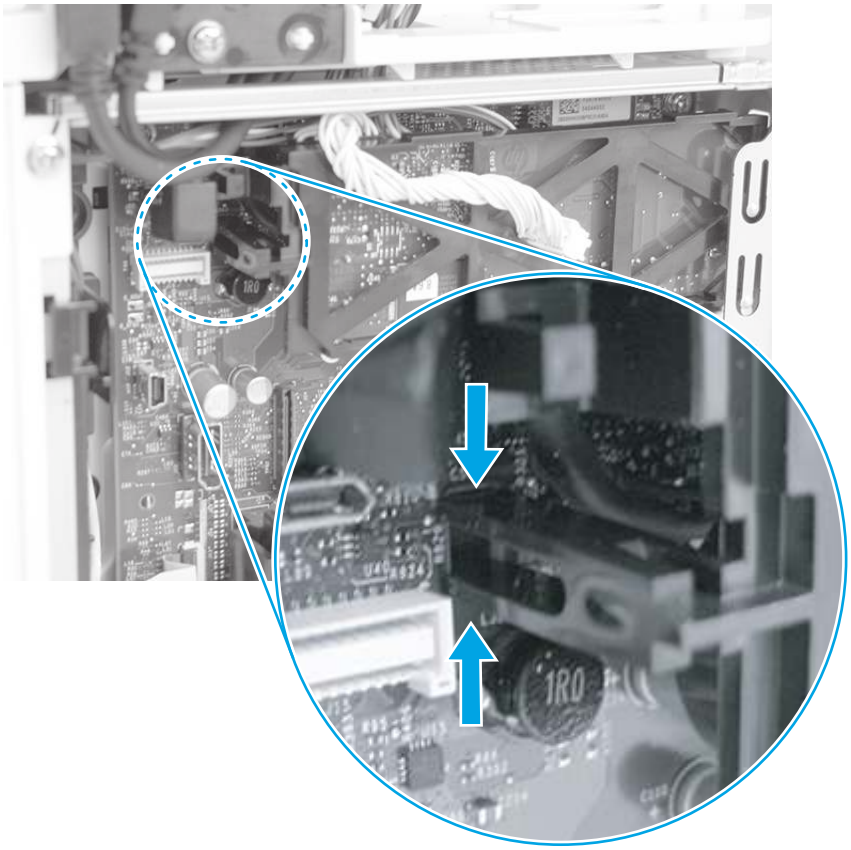
a. Disconnect three connectors (callout 1).

Figure 1-814 Disconnect three connectors



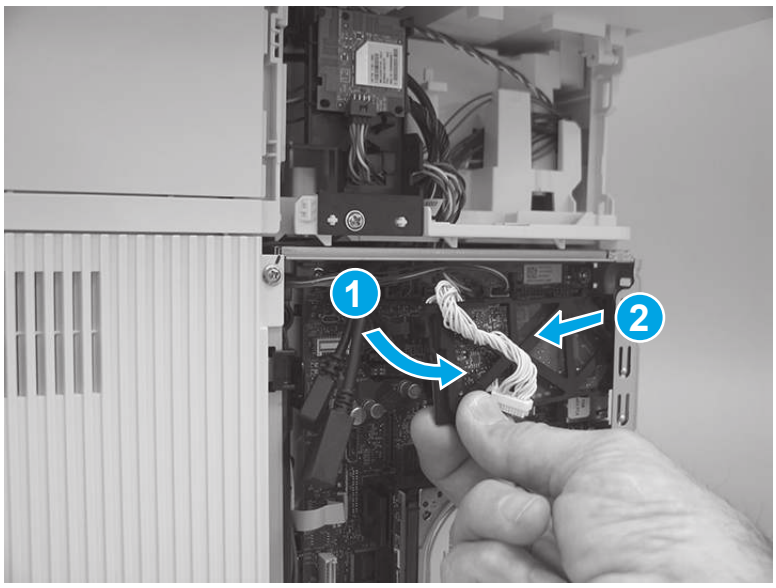
b. Pinch the retainer to release it.

Figure 1-815 Release the fax PCA



c. Rotate the connector end of the fax PCA out and away from the formatter (callout 1), and then slide it as shown (callout 2) to remove it.

Figure 1-816 Remove the fax PCA



6. Remove the formatter.

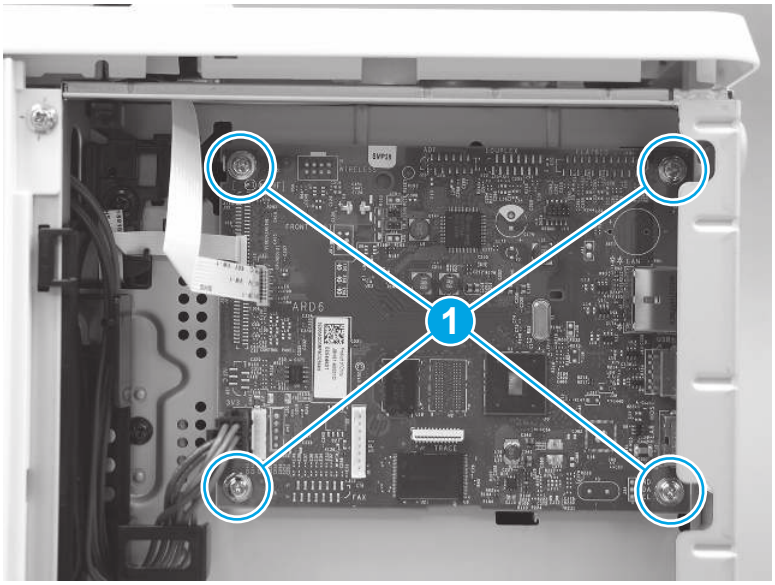
CAUTION: Never remove and then install a replacement DCC and formatter at the same time. Doing so will cause the printer to become unstable.

If a replacement DCC and formatter must be installed, first remove and install the formatter. Test operate the printer, and then if necessary install a replacement DCC.

IMPORTANT: Take note of all empty connectors on the PCA before disconnecting any wire harnesses or flat-flexible cables (FFCs). Some empty connectors might not be visible until other items—like the hard-disk drive—are removed, so pay close attention while removing the formatter and accessory items.

a. **M501**: Disconnect all of the connectors and FFCs, remove four screws (callout 1), and then remove the formatter.

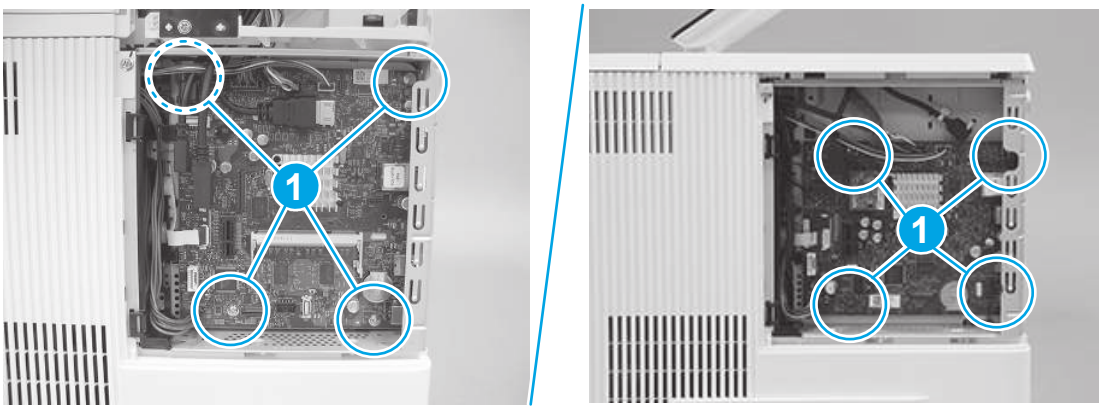
Figure 1-817 Remove the formatter (M501)



b. **M506/E50045/M507/E50145/M527/E52545/M528/E52645**: Disconnect all of the connectors and FFCs, remove four screws (callout 1), and then remove the formatter.

IMPORTANT: Take note of all empty connectors on the formatter before disconnecting any wire harnesses or flat-flexible cables (FFCs). Some empty connectors might not be visible until other items —like the hard-disk drive—are removed, so pay close attention while removing the formatter and accessories items.

Figure 1-818 Remove the formatter (M506/E50045/M507/E50145/M527/E52545/M528/E52645)

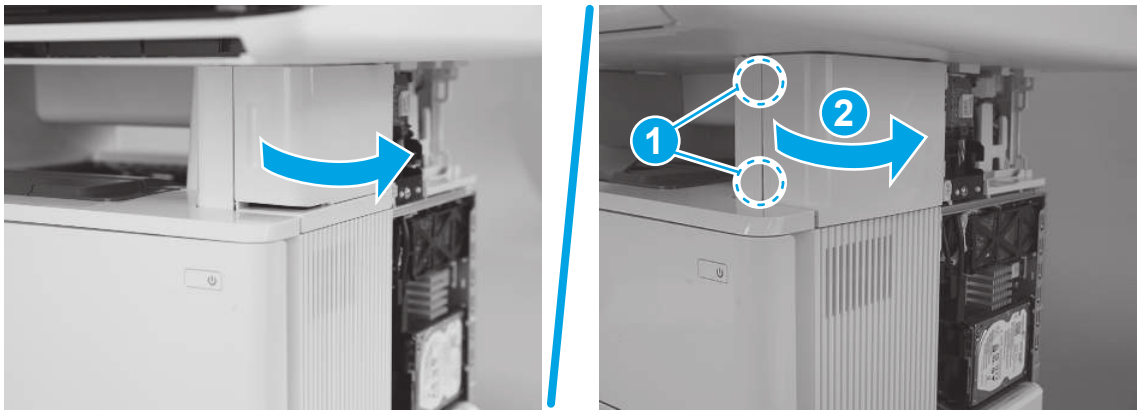


7. Remove the stapler door or stapler blank cover (M527/E52545/M528/E52645).

a. Do one of the following:

- **Stapler models**: Open the stapler door.
- **Non-stapler models**: Use a small flat-blade screw driver to release two tabs (callout 1), and then rotate the cover away from the printer (callout 2).

Figure 1-819 Open the door or release the cover



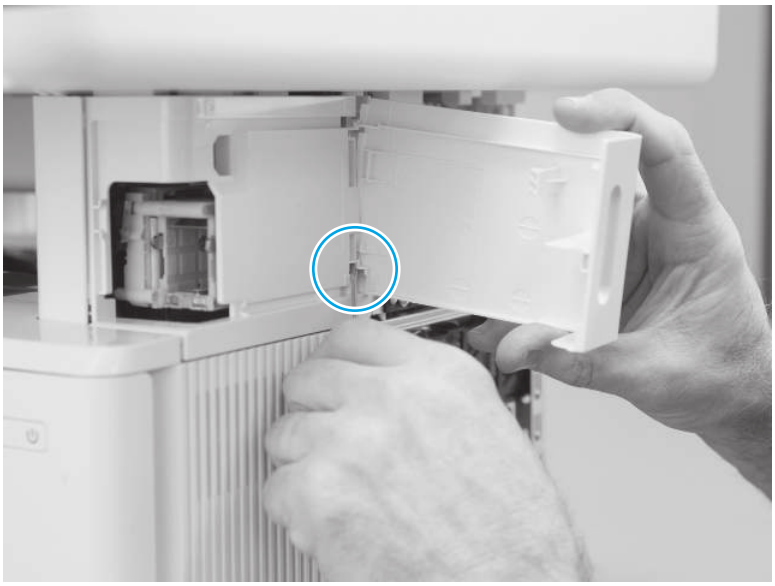
b. Do one of the following:

- **Stapler models**: Use a small flat-blade screwdriver to release the upper hinge.
- **Non-stapler models**: Slide the cover toward the front of the printer to remove it.

Figure 1-820 Release the upper hinge or remove the cover

c. **Stapler models**: Use a small flat-blade screwdriver to release the lower hinge.

Figure 1-821 Release the lower hinge



d. **Stapler models**: Remove the door.

Figure 1-822 Remove the door

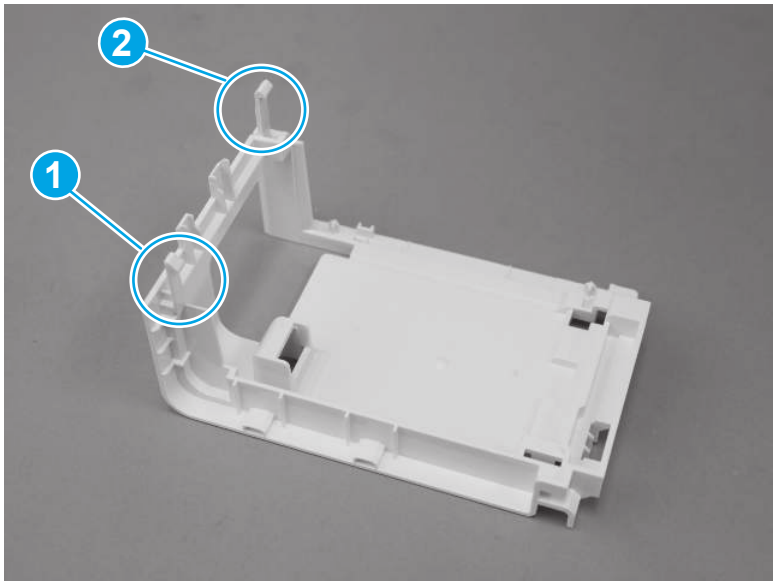
8. Remove the stapler stationary (inner) cover (M527/E52545/M528/E52645).

NOTE: Stapler models only.

a. Before proceeding, take note of the locations of the upper tab (callout 1) and the lower tab (callout 2) on the stapler stationary (inner) cover.

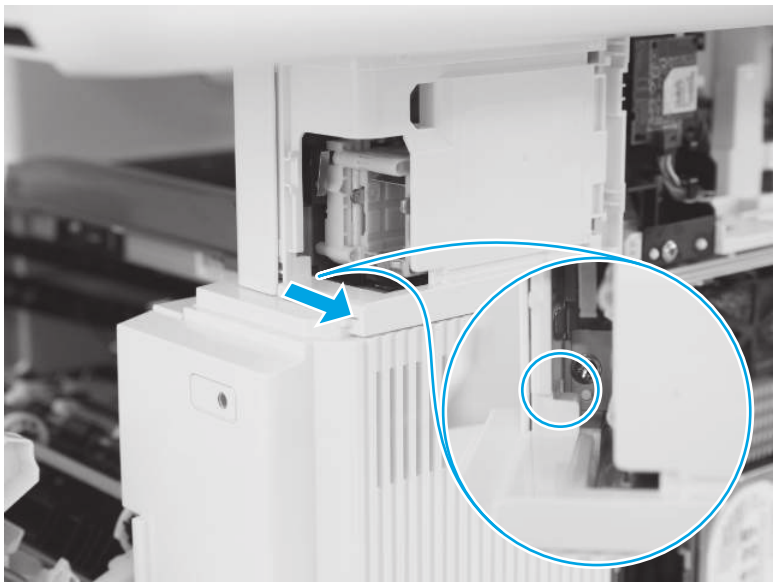
Reinstallation tip: When reinstalling the cover, take note of the location of the tabs.

Figure 1-823 Locate the tabs



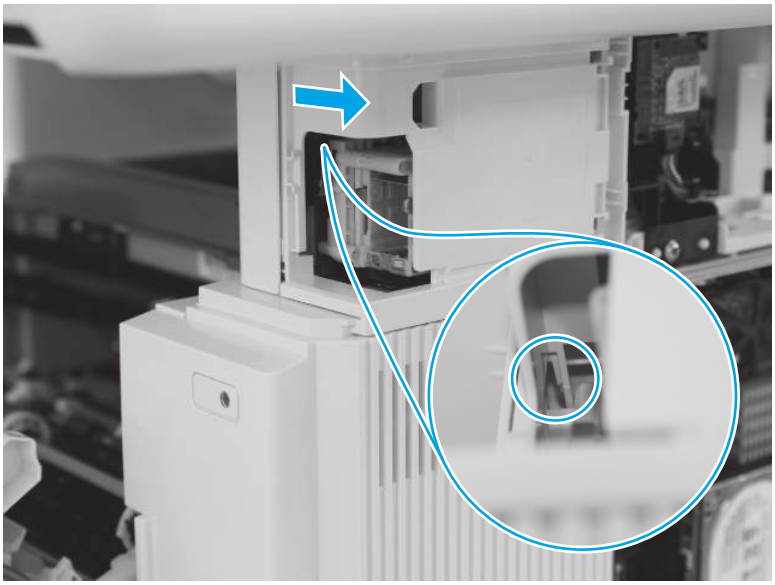
b. Use a long-shaft small flat-blade screwdriver to release the lower tab.

Figure 1-824 Release one tab



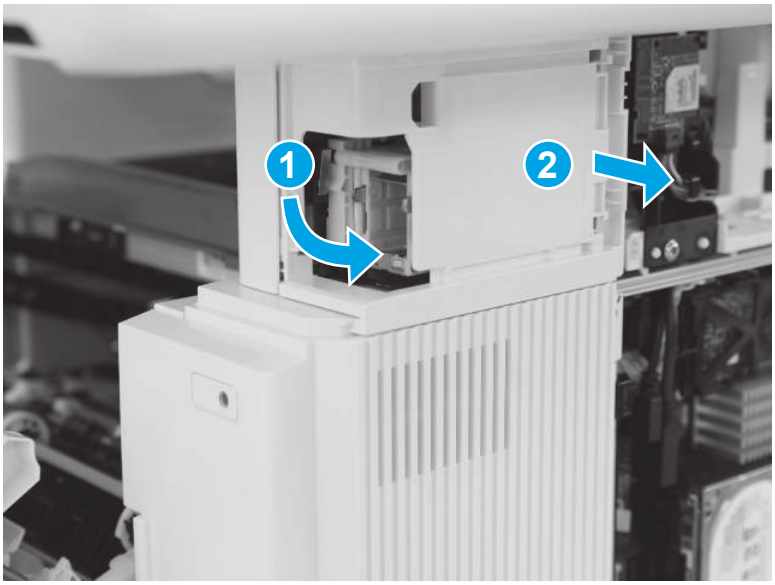
c. Use a long-shaft small flat-blade screwdriver to release the upper tab.

Figure 1-825 Release one tab



d. With the tabs disengaged the front of the cover is released. Rotate the front of the cover away from the printer (callout 1) to release the rear of the cover (callout 2), and then remove it.

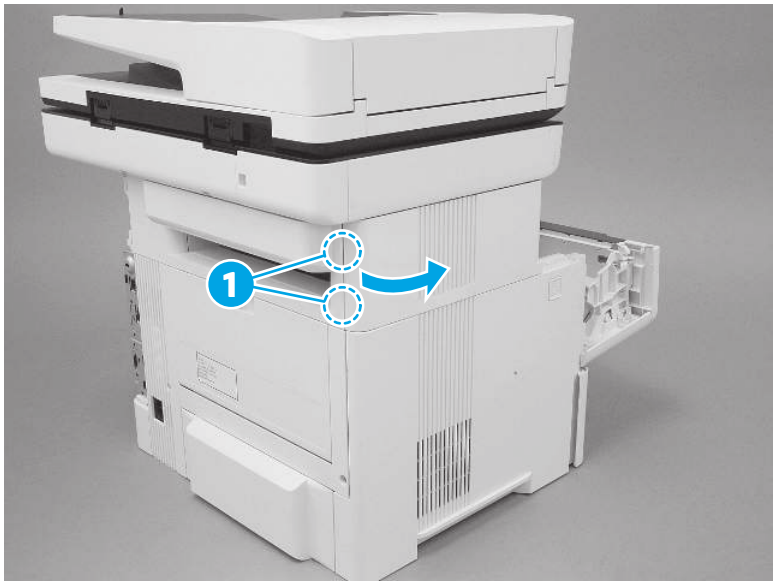
Figure 1-826 Remove the cover



9. Remove the top-left cover (M527/E52545M528/E52645).

a. Open the toner-cartridge door, release two tabs (callout 1), and then rotate the rear edge of the cover away from the printer.

Figure 1-827 Release two tabs



b. Continue to rotate the cover away from the printer to release two more tabs at the middle of the cover.

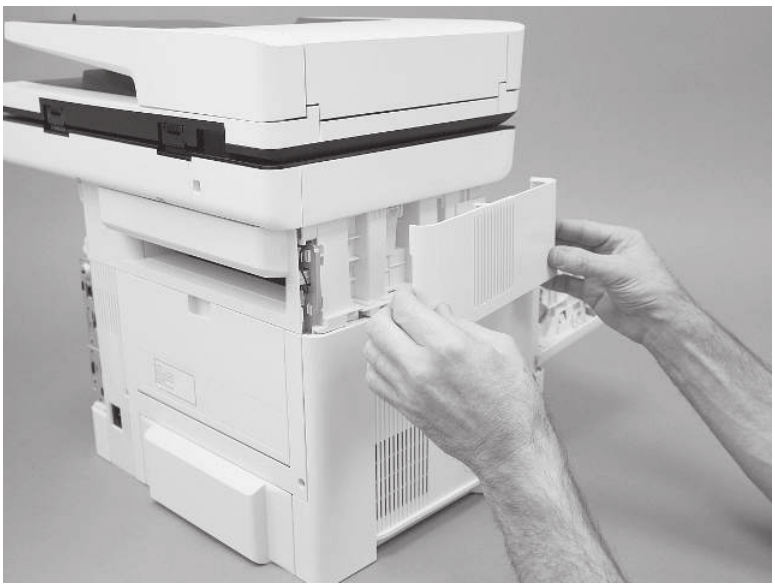
Figure 1-828 Release two tabs

c. Slide the cover toward the rear of the printer to release two bosses at the front of the cover.

Figure 1-829 Slide the cover

d. Remove the cover.

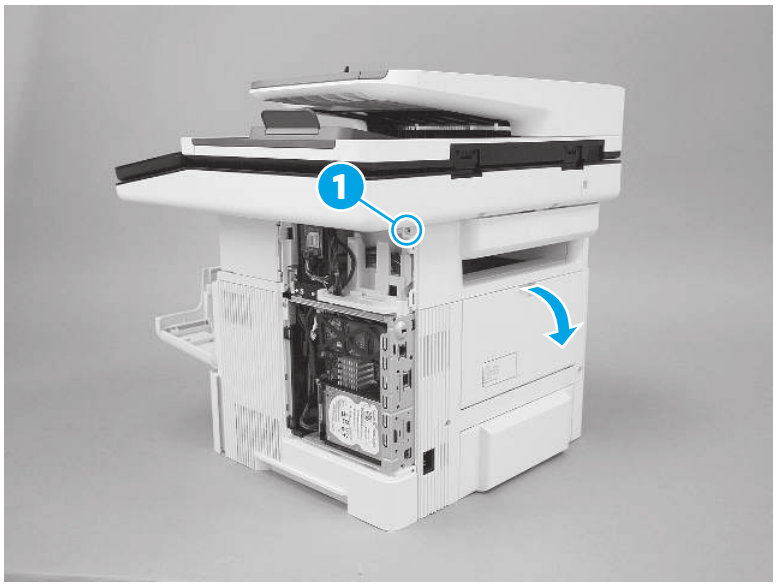
Figure 1-830 Remove the cover



10. Remove the top-rear cover (M527/E52545/M528/E52645).

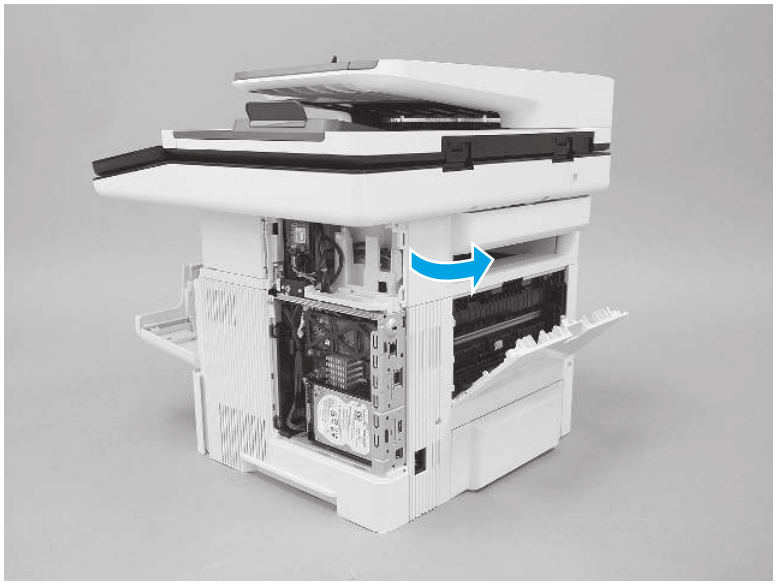
a. Remove one screw (callout 1), and then open the rear door.

Figure 1-831 Remove one screw



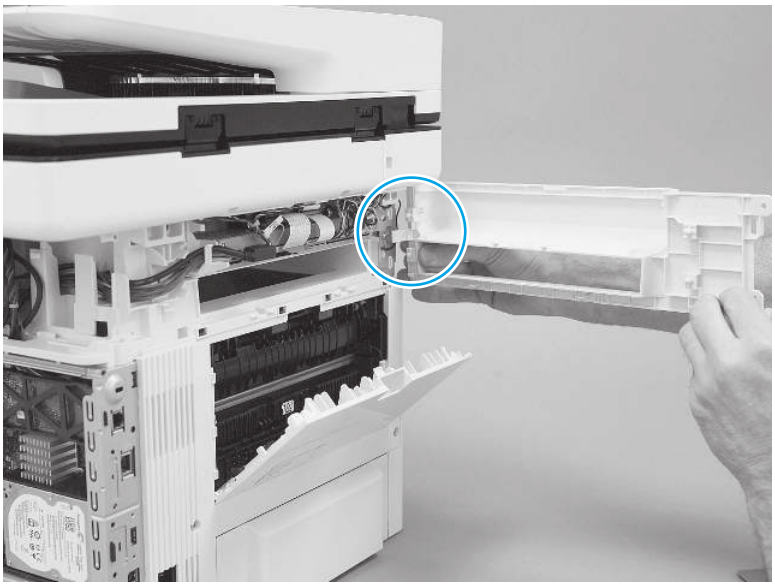
b. Rotate the exposed edge of the cover away from the printer (as shown).

Figure 1-832 Rotate the cover



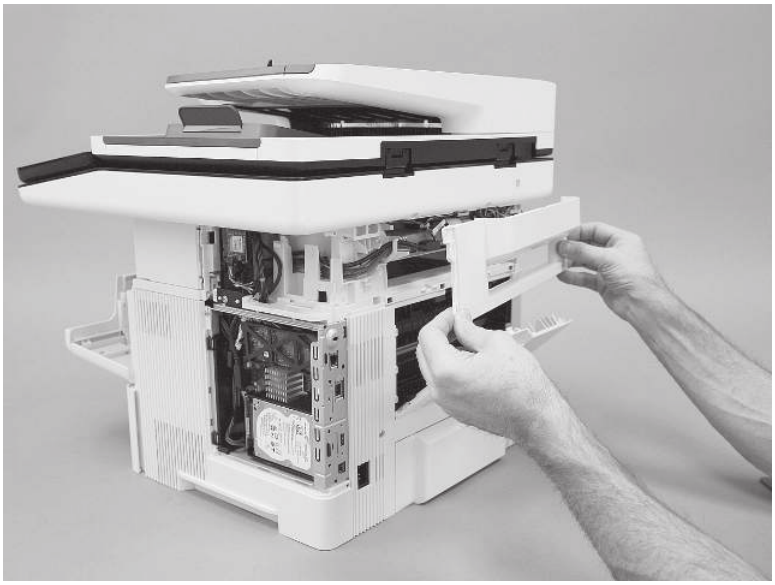
c. Continue to rotate the cover away from the printer to release one boss.

Figure 1-833 Release one boss



d. Remove the cover.

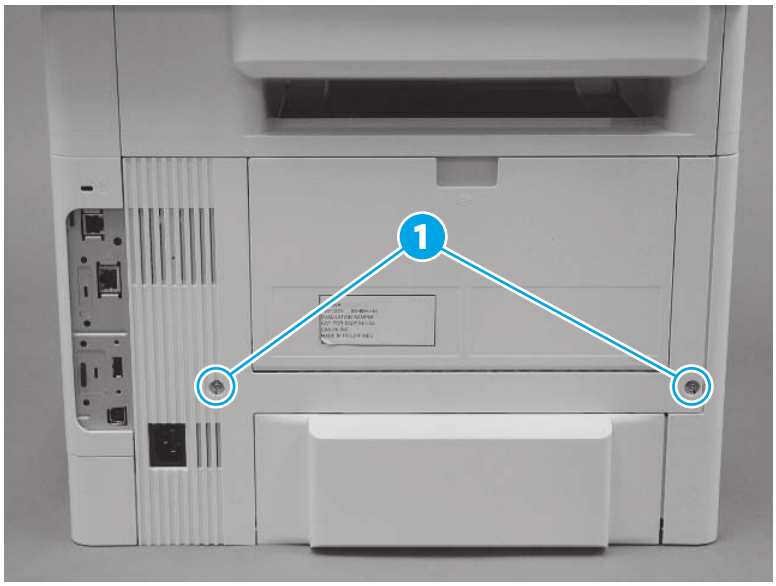
Figure 1-834 Remove the cover



11. Remove the rear door assembly.

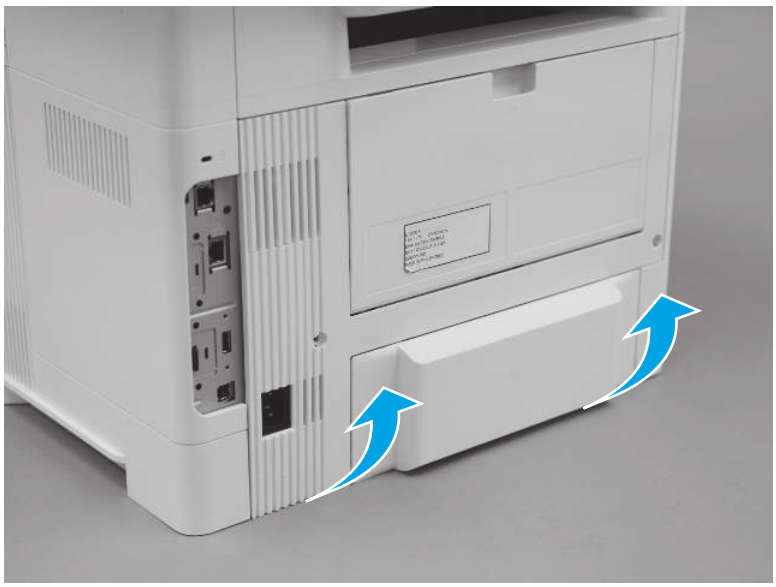
a. At the rear of the printer, remove two screws (callout 1).

Figure 1-835 Remove two screws



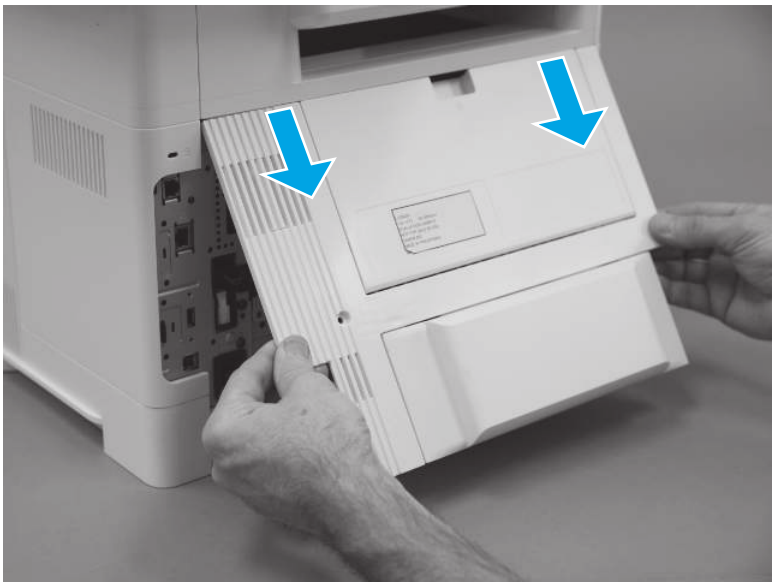
b. Rotate the bottom edge of the assembly away from the printer to release it.

Figure 1-836 Rotate the bottom of the cover



c. Pull down on the assembly to remove it.

Figure 1-837 Remove the cover



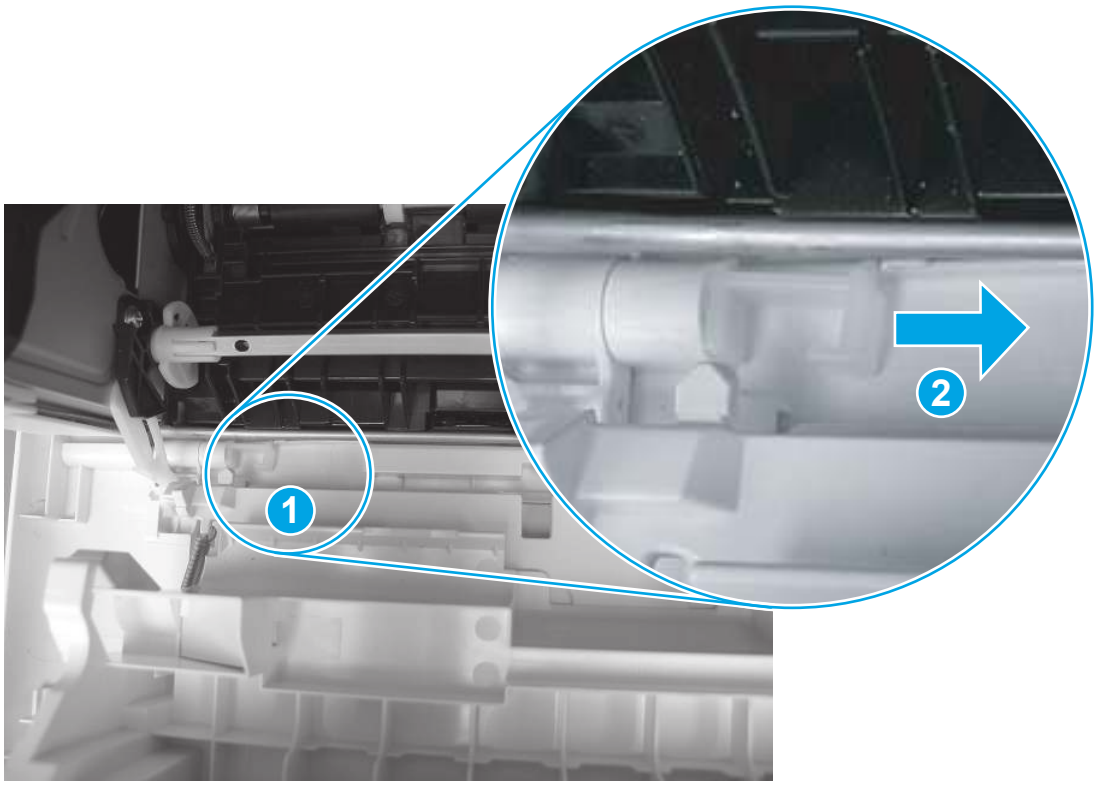
12. Remove the cartridge door assembly.

NOTE: If the toner cartridge was not removed prior to servicing the printer, remove it now.

a. Release the support shaft (callout 1), and then slide it toward the center of the door (callout 2).

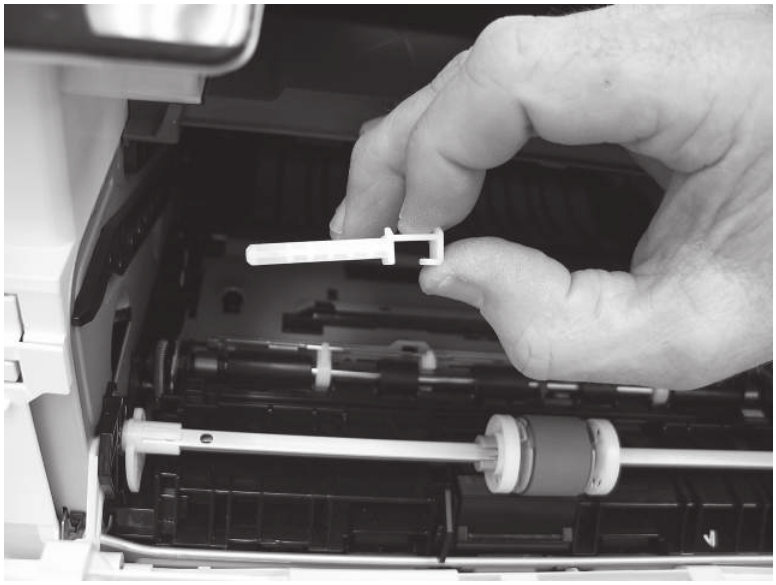
TIP: It might be easier to release the support shaft by using a small flat-blade screwdriver.

Figure 1-838 Release the support shaft



b. Remove the support shaft.

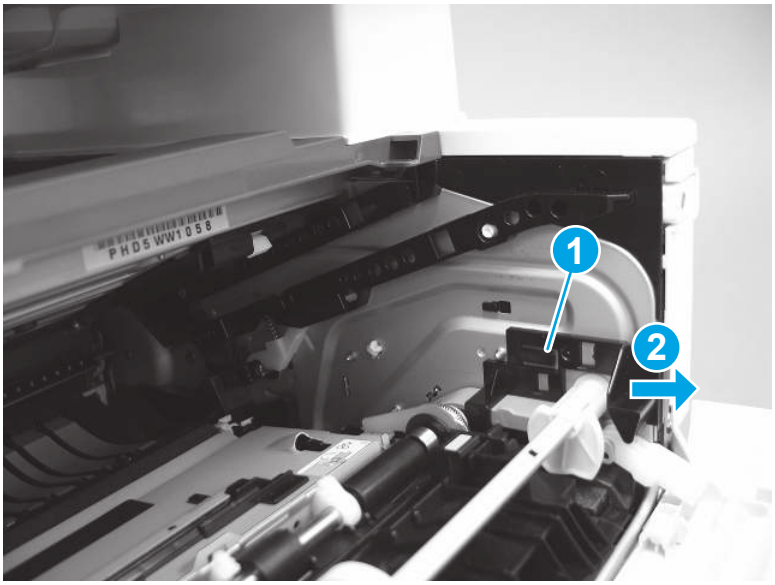
Figure 1-839 Remove the support shaft



c. Release one tab (callout 1), and then slide the guide out of the printer (callout 2).

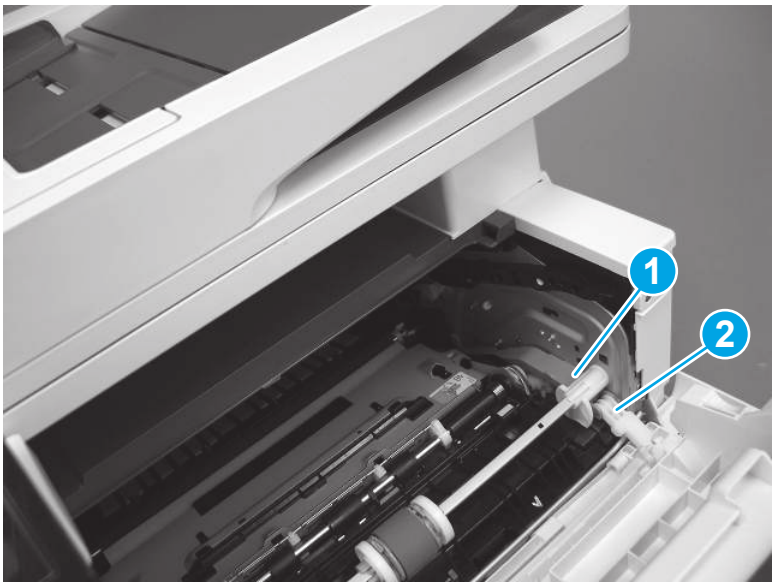
⚠ CAUTION: Be careful, the tab (callout 1) can be easily broken.

Figure 1-840 Remove the guide



d. Use a small flat-blade screwdriver to gently pry the white-plastic door arm (callout 1) off of the gray-plastic pressure-release link (callout 2) to release the door arm.

Figure 1-841 Release the pressure-release link



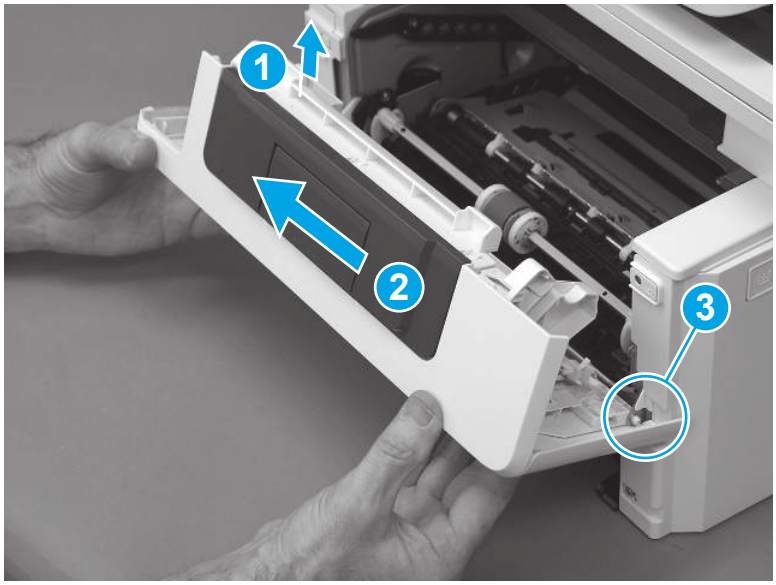
e. With the door in the partially closed position, slightly raise the left end (callout 1; raise it over the sheet-metal hinge boss), and then slide the door to the left (callout 2) to release the right hinge (callout 3).

⚠ CAUTION: The door is still attached to the printer by the left-side retainer arm. Do not attempt to completely remove the door.

Reinstallation tip: When reinstalling the door, there are two right-side hinge pins (not shown in callout 3).

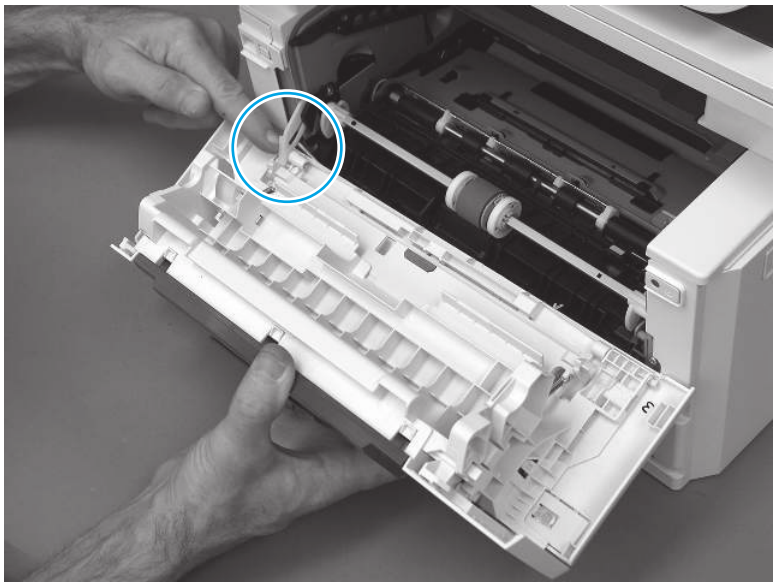
Keep a finger pressed on the left-side retainer arm so that it does not disengage from the door.

Figure 1-842 Release the door



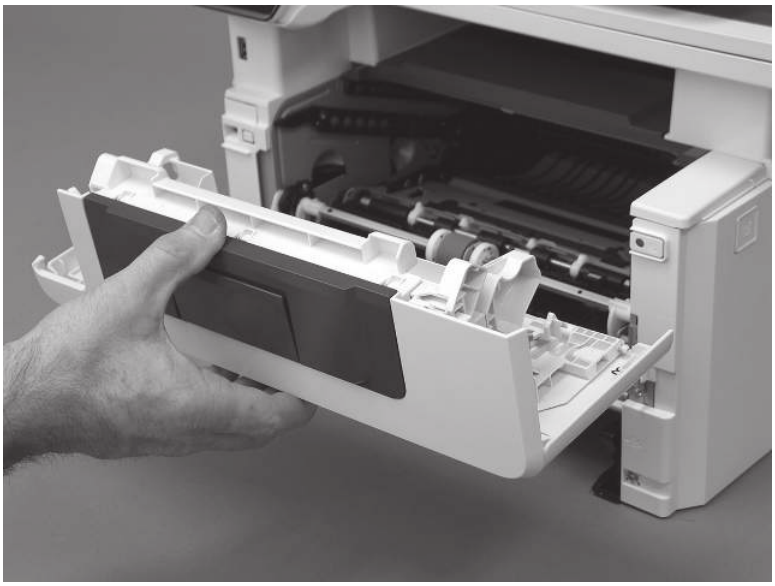
f. Rotate the door away from the printer until the keyed pin on the left-side retainer arm can disengage from the door.

Figure 1-843 Release the left-side retainer arm



g. Remove the door.

Figure 1-844 Remove the door



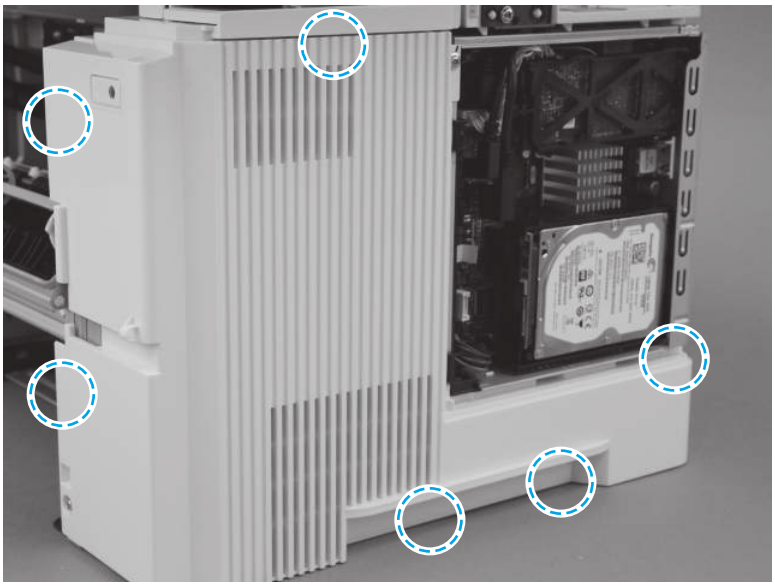
13. Remove the right cover.

IMPORTANT: The black-plastic cassette front and rear guides (located inside the tray cavity) can be easily dislodged. Do not lose the guides when the cover is removed or installed.

An MFP printer is shown in this section. However, the procedure is correct for all printer models.

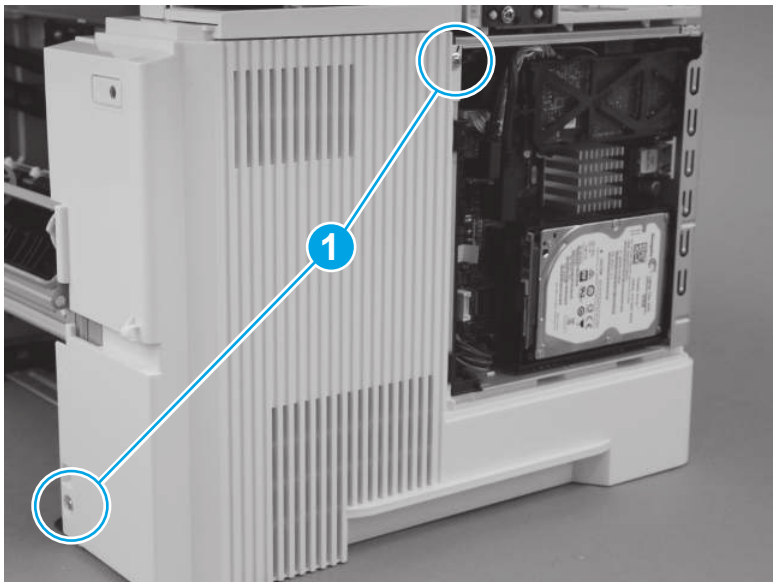
a. Before proceeding, take note of the location of the tabs and bosses on the inside of the cover.

Figure 1-845 Locate the tabs and bosses



b. Remove two screws (callout 1).

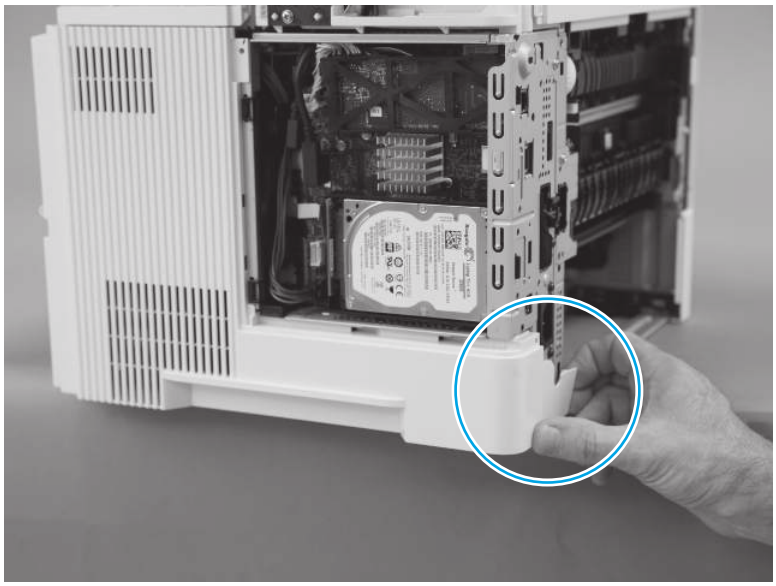
Figure 1-846 Remove two screws



c. At the rear of the printer, release one boss.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

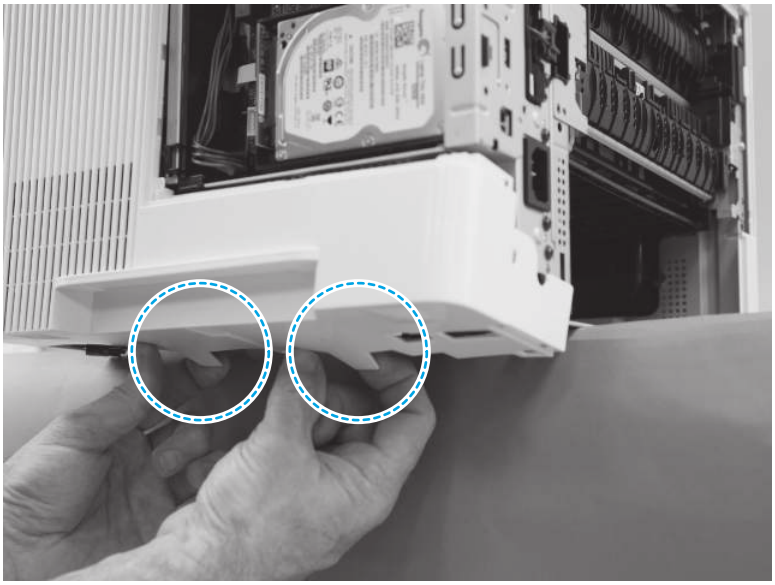
Figure 1-847 Release one boss



d. At the bottom edge of the cover, release two bosses.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

Figure 1-848 Release two bosses

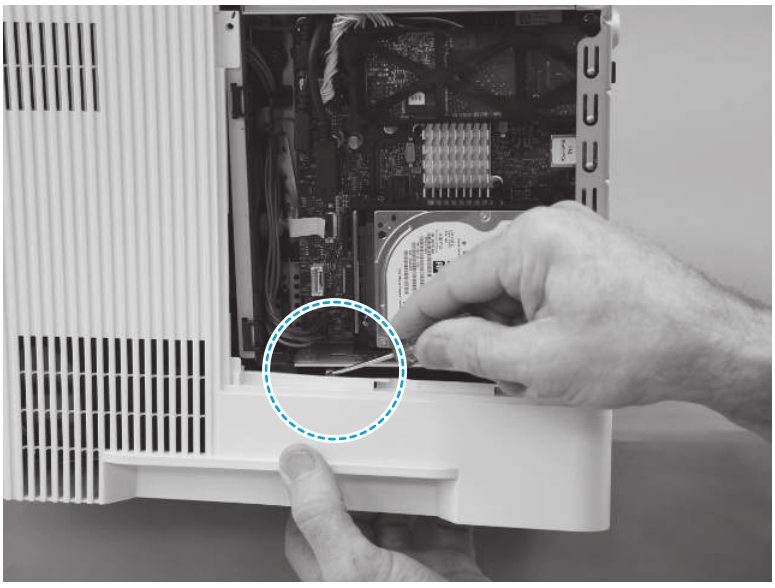


e. Near the formatter, release one tab.

CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

TIP: Hold the bottom of the cover away from the printer, and then use a small flat-blade screw driver to easily release this tab.

Figure 1-849 Release one tab

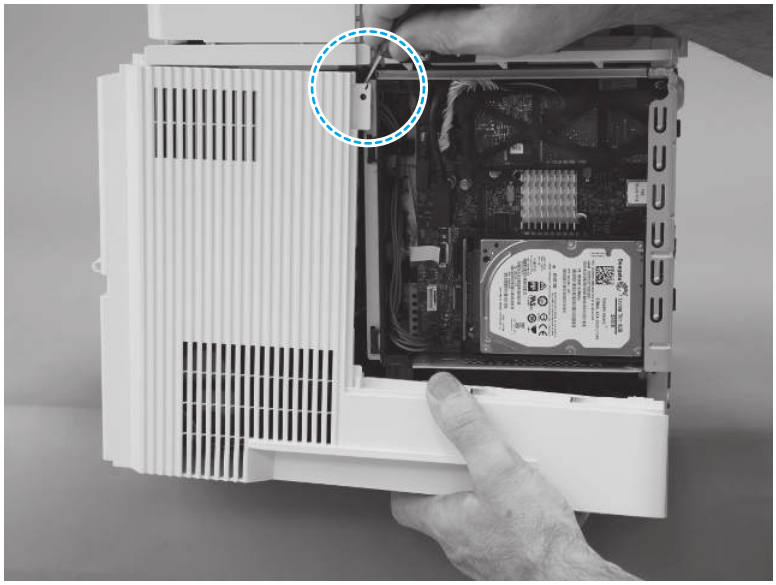


f. At the top rear edge of the cover, release one tab.

CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

TIP: Use a small flat-blade screw driver to easily release this tab.

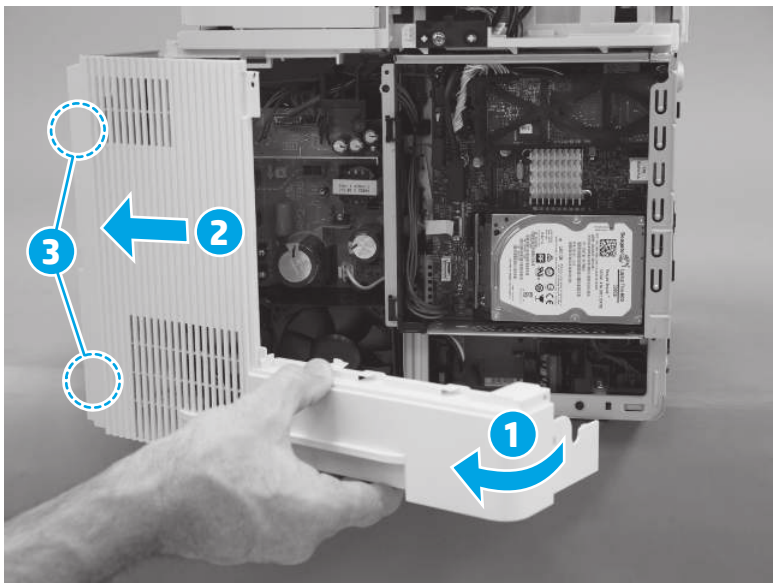
Figure 1-850 Release one tab



g. Rotate the rear of the cover away from the printer (callout 1), slide the cover toward the front of the printer (callout 2) to release two bosses (callout 3), and then remove the cover.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

Figure 1-851 Remove the cover



14. Remove the left cover.

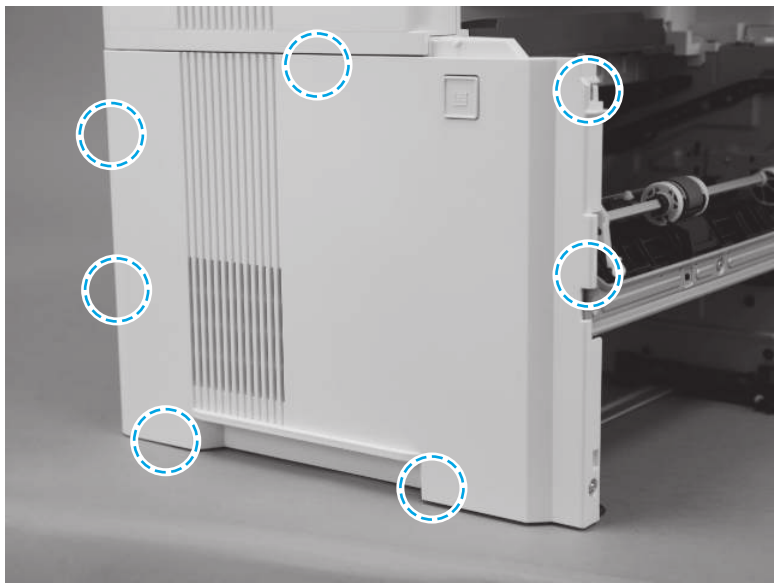
IMPORTANT: The black-plastic cassette front and rear guides (located inside the tray cavity) can be easily dislodged. Do not lose the guides when the cover is removed or installed.

NOTE: An MFP printer is shown in this section. However, the procedure is correct for all printer models.

a. Before proceeding, take note of the location of the tabs and bosses on the inside of the cover.

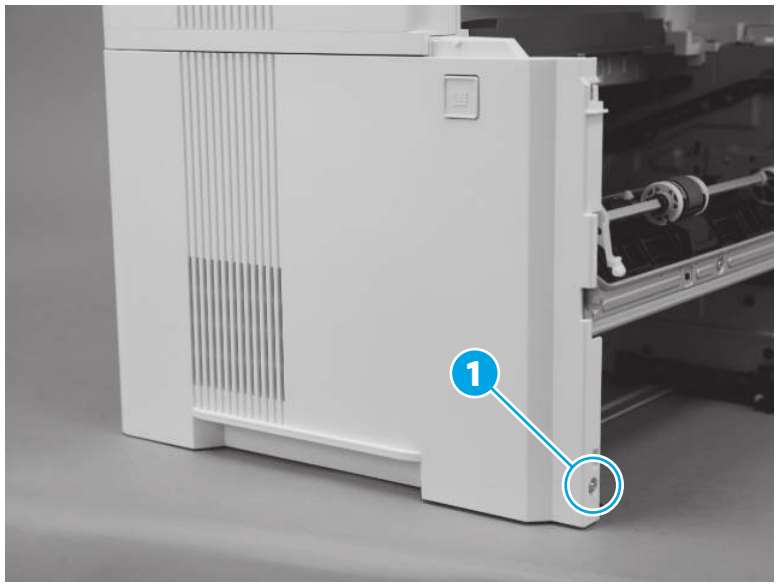
Reinstallation tip: When reinstalling the cover, take note of the location of the tabs and bosses on the inside of the cover.

Figure 1-852 Locate of the tabs and bosses



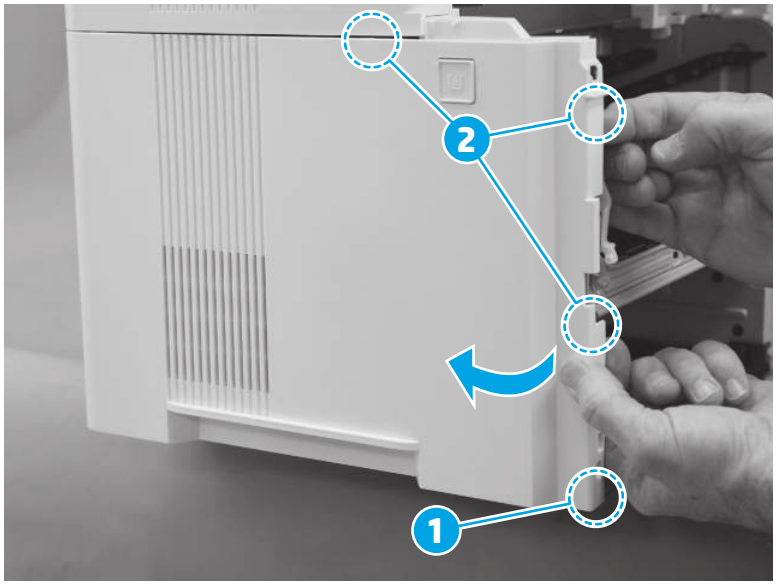
b. Remove one screw (callout 1).

Figure 1-853 Remove one screw



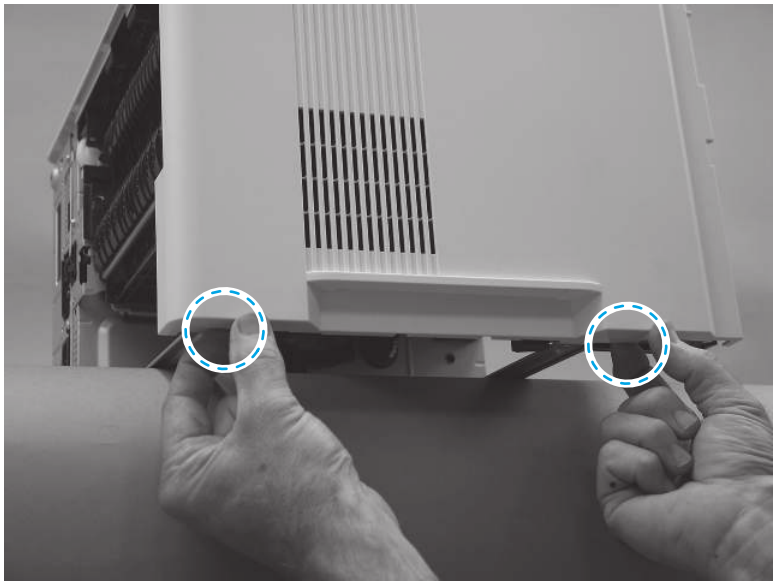
c. At the front of the printer, release one boss (callout 1), and then rotate the front edge of the cover away from the printer to release three tabs (callout 2).

Figure 1-854 Release one boss and three tabs



d. At the bottom edge of the cover, release two tabs.

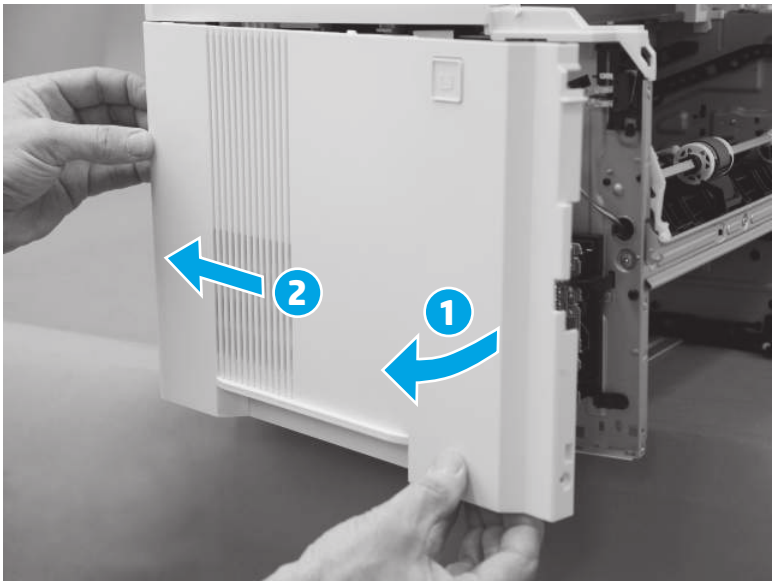
Figure 1-855 Release two tabs



e. Continue to rotate the front edge of the cover away from the printer (callout 1), and then slide the cover toward the rear of the printer (callout 2) to remove it.

NOTE: If the cover is difficult to rotate or slide as shown below, make sure that the bottom tabs (released in the previous step) are completely disengaged from the chassis.

Figure 1-856 Remove the cover



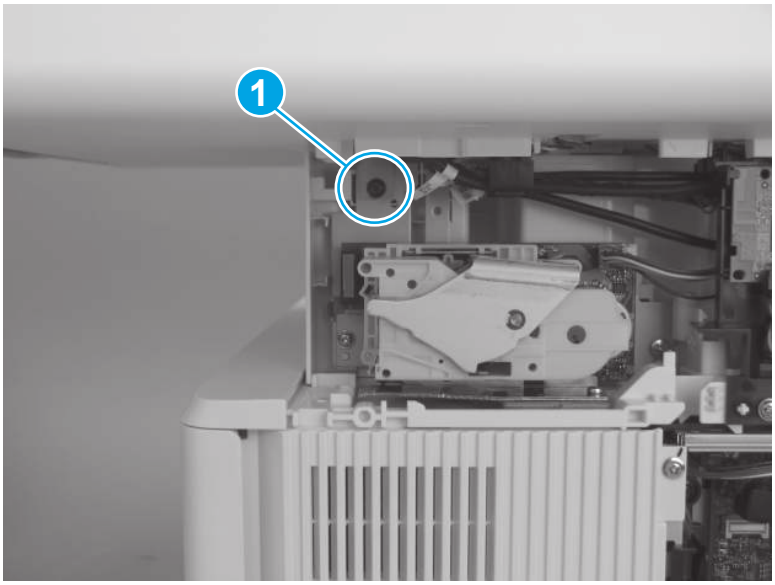
15. Remove the integrated-scanner assembly (ISA) (M527/E52545/M528/E52645).

NOTE: The ISA includes the document feeder, sub-scanner assembly (SSA), and the scanner control board (SCB).

a. Remove one screw (callout 1).

IMPORTANT: This screw fastens the ISA ground plate to the printer chassis. Do not lose this screw.

Figure 1-857 Remove one screw

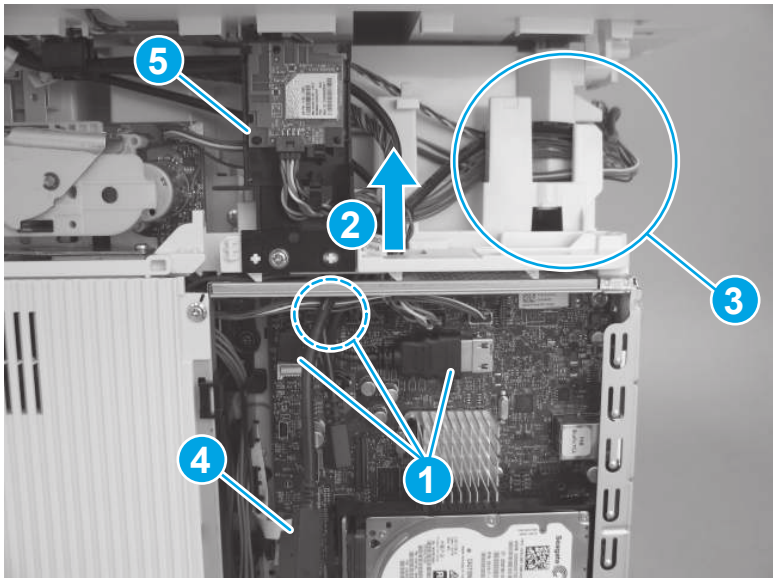


b. Disconnect three connectors (callout 1), pass the wire harnesses and cables through the opening in the cover (callout 2), and then release them from the retainers (callout 3).

NOTE: One cable (callout 4) does not need to pass through the opening in the cover.

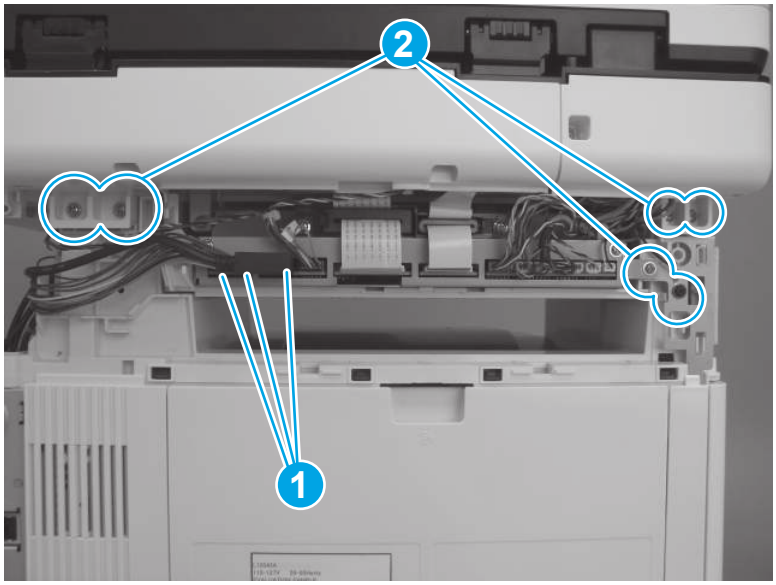
TIP: It might be easier if the WiFi PCA and holder (not all models; callout 5) is detached from the printer, and then moved out of the way.

Figure 1-858 Disconnect cables and connectors



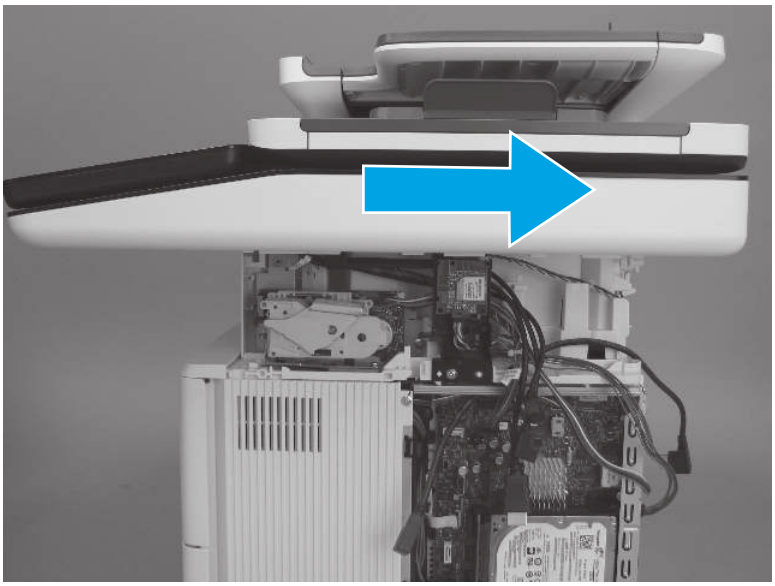
c. Disconnect three connectors (callout 1), and then remove six screws (callout 2).

Figure 1-859 Disconnect connectors and remove screws



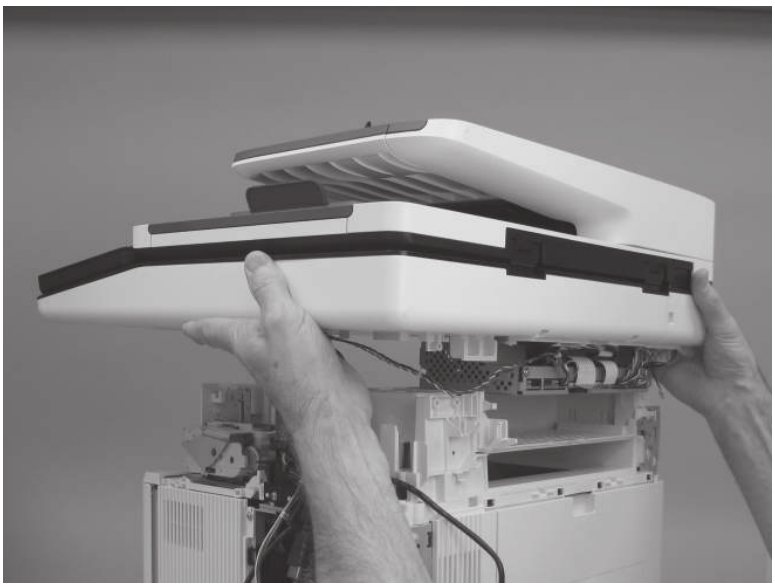
d. Slightly slide the ISA towards the back of the printer to release it.

Figure 1-860 Slide the ISA towards the back of the printer



e. Remove the ISA.

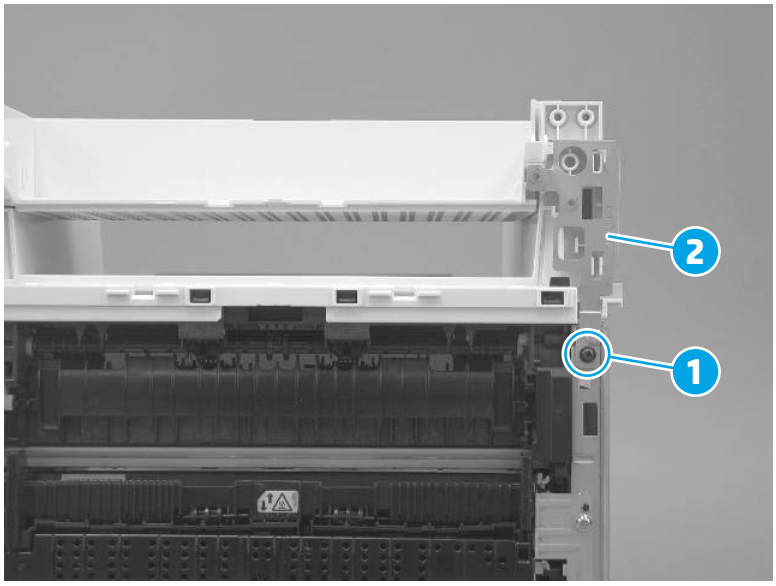
Figure 1-861 Remove the ISA



16. Remove the top cover (M527/E52545/M528/E52645).

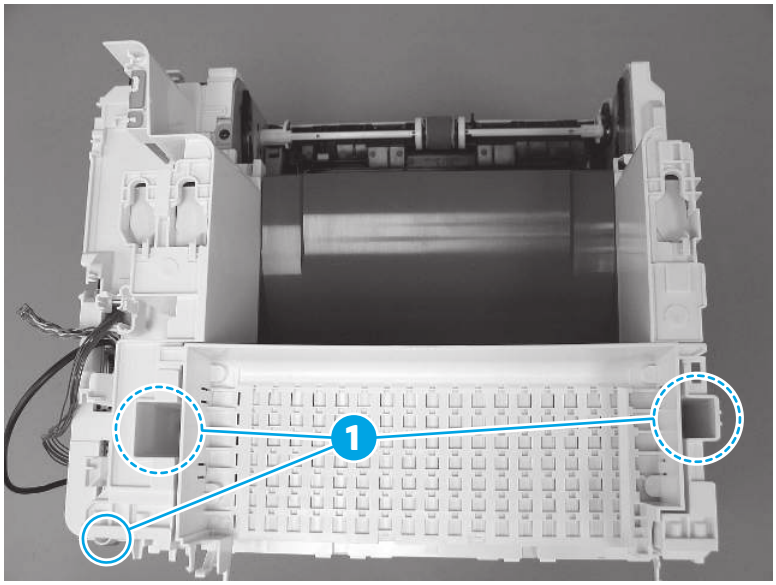
a. At the front right of the printer, remove one screw (callout 1), and then remove the sheet-metal plate (callout 2).

Figure 1-862 Remove one screw and the plate



b. At the top rear of the printer, remove three screws (callout 1).

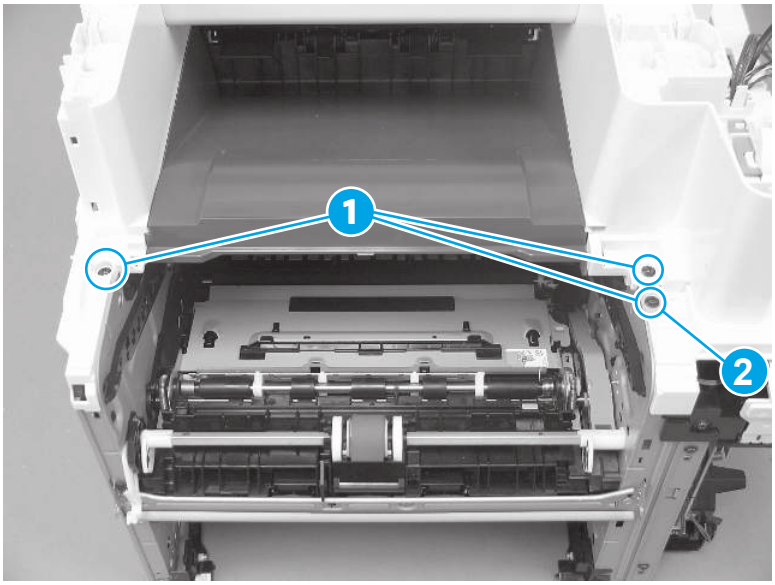
Figure 1-863 Remove three screws



c. At the top front of the printer, remove three screws (callout 1).

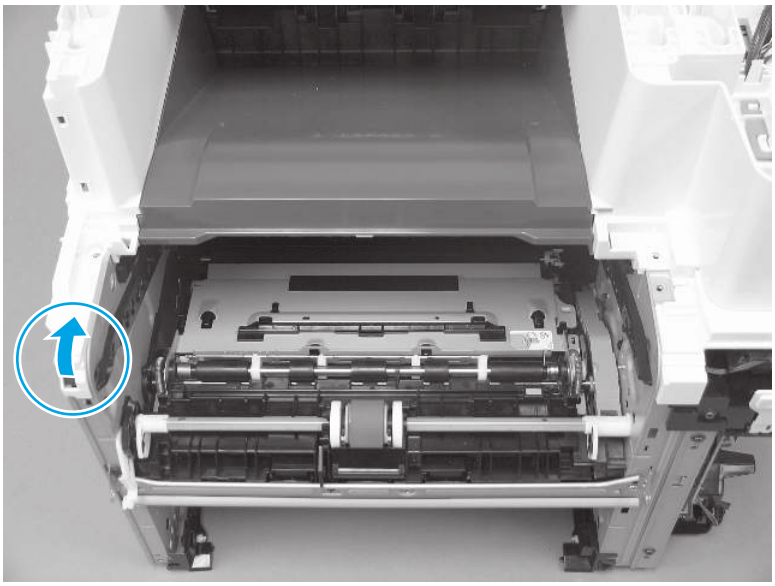
NOTE: The screw (callout 2) on the lower-right portion of the cover is a different color than the other two screws, and is surrounded by sheet-metal. It might appear that this screw does not need to be removed. Remove this screw.

Figure 1-864 Remove three screws



d. At the front left of the printer, release one boss.

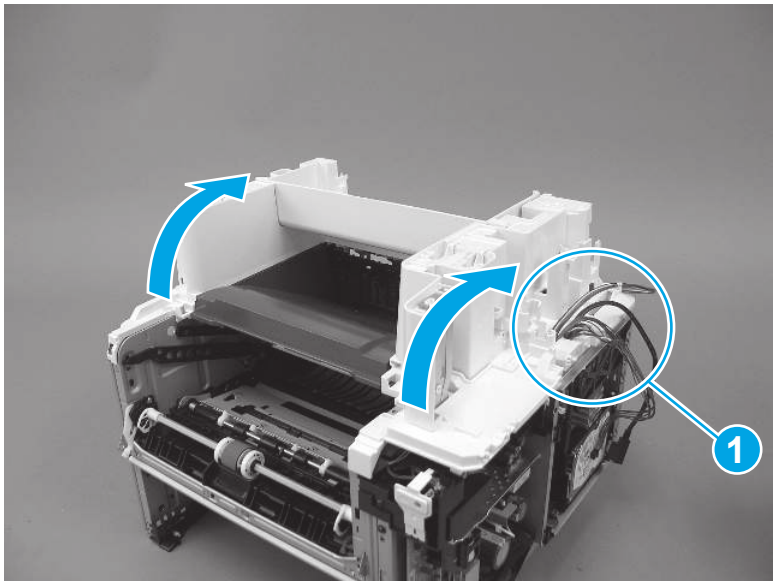
Figure 1-865 Release one boss



e. Rotate the front of the cover up and away from the printer.

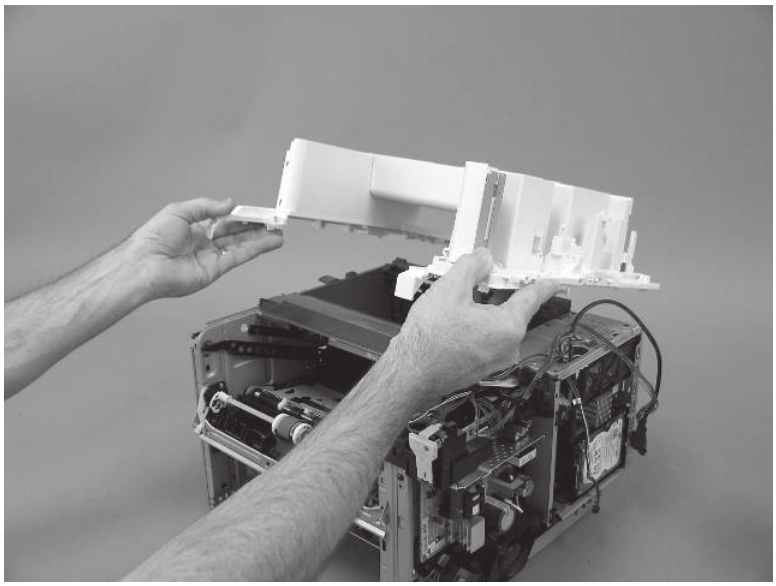
⚠ CAUTION: As the cover is rotated up, carefully pass the cables and wire harnesses the hole in the cover (callout 1).

Figure 1-866 Rotate the front of the cover up



f. Remove the cover.

Figure 1-867 Remove the cover

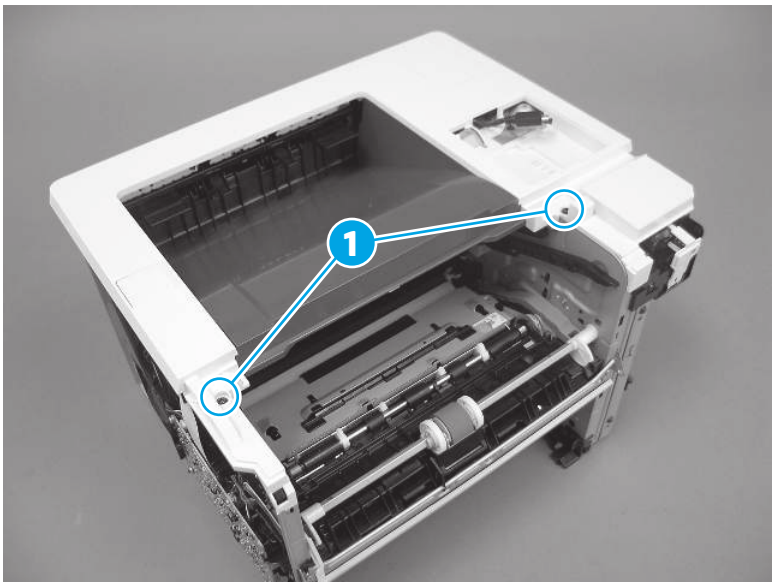


17. Remove the top cover (M501/M506/E50045/M507/E50145).

    The M506x/E50045x is shown in this procedure. However, the steps are correct for all M506/E50045/M507/E50145 models and the M501 printer.

a. Remove two screws (callout 1).

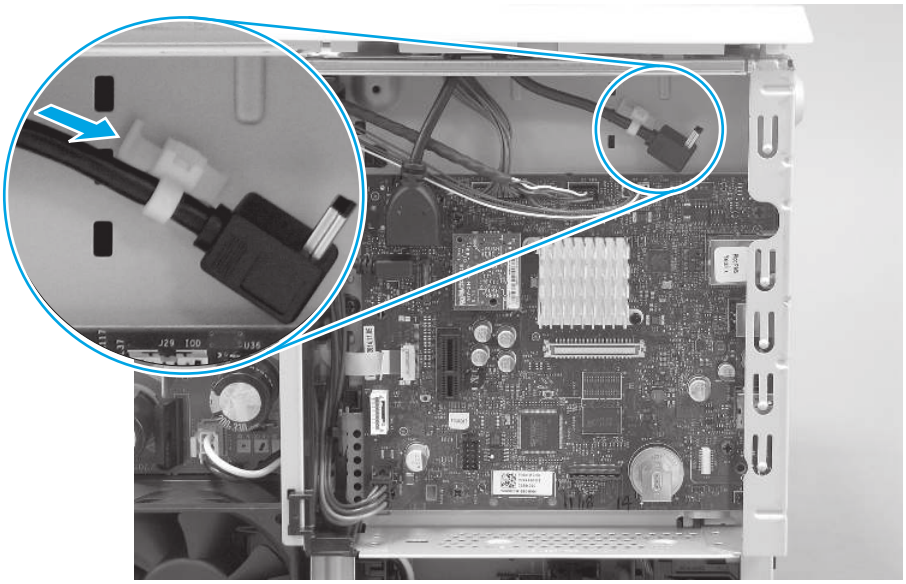
Figure 1-868 Remove two screws



b. **M506/E50045/ only**: Release one cable retainer from the chassis.

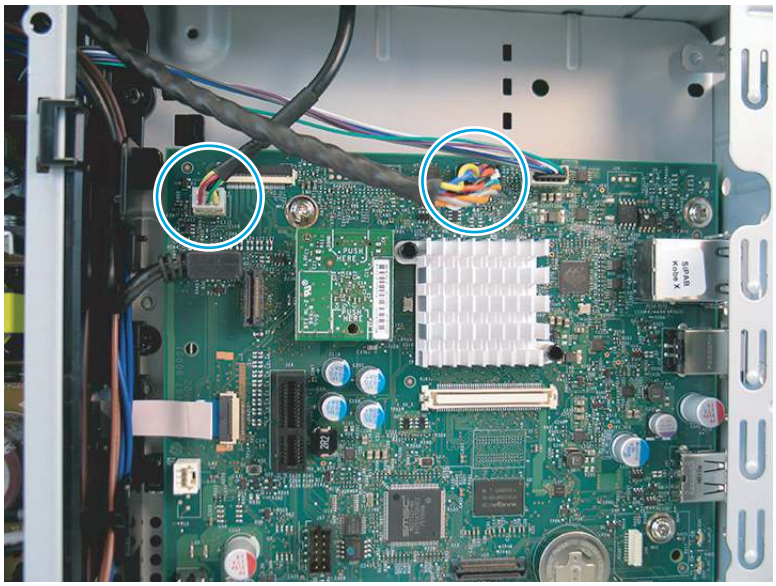
TIP: Depress the tab on the retainer to release it.

Figure 1-869 Release one cable retainer



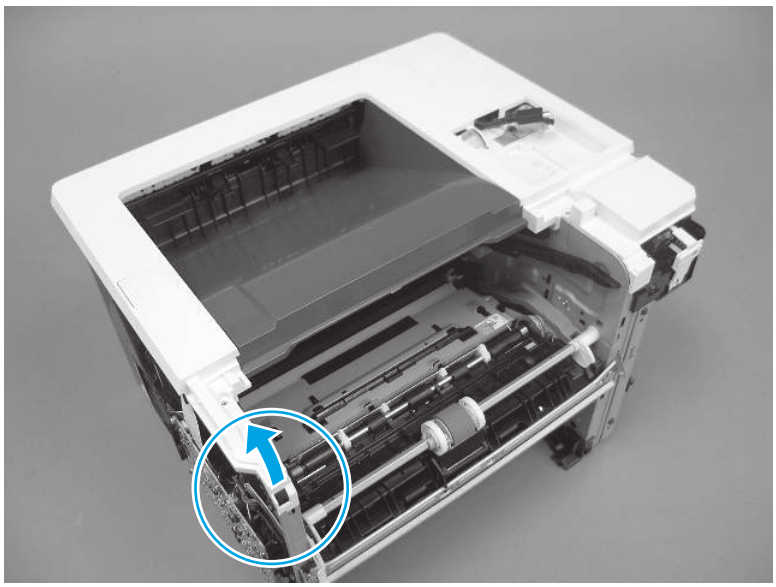
c. **M507/E50145 only**: Disconnect two connectors.

Figure 1-870 Disconnect two connectors



d. Release one boss.

Figure 1-871 Release one boss

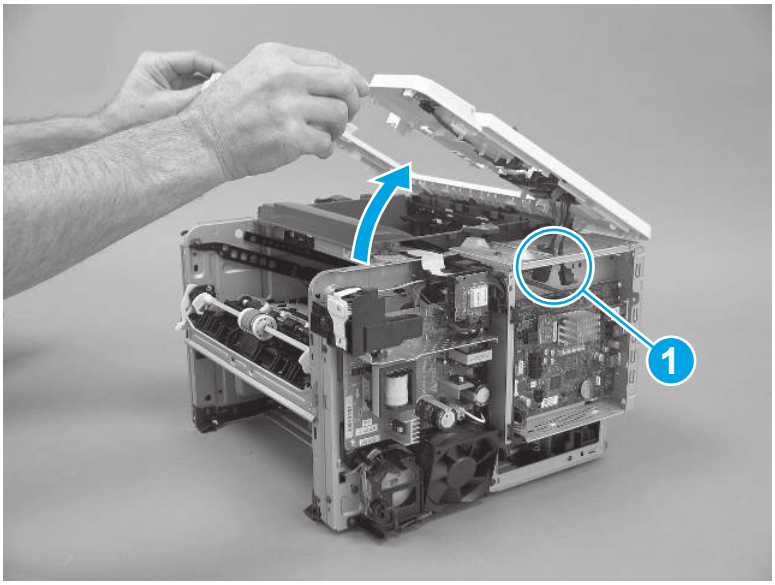


e. **M506/E50045/ only**: Rotate the front of the cover up and away from the printer, and then remove the cover.

⚠ CAUTION: **M506x/E50045x only**: As the cover is rotated up, carefully pass the cables the hole in the chassis (callout 1).

NOTE: **LCD control panel models only**: Disconnect the control panel before removing the cover.

Figure 1-872 Remove the cover (M506/E50045)



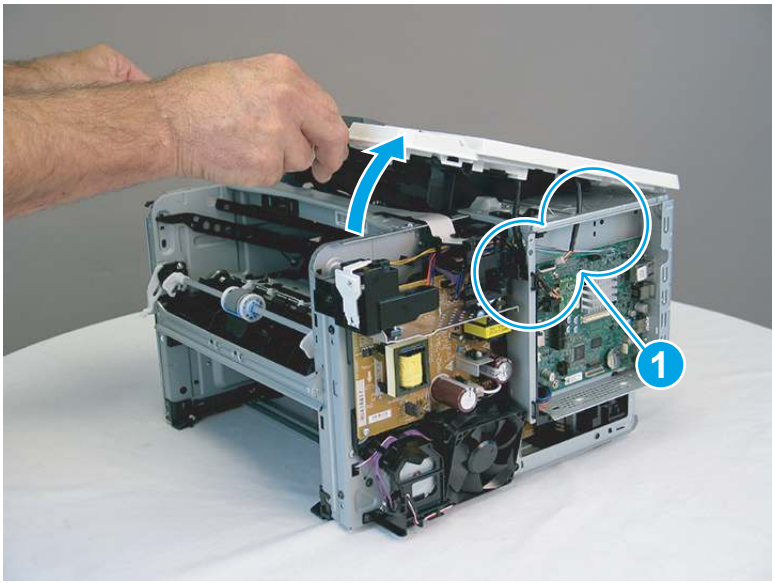
f. M507/E50145only: Rotate the front of the cover up and away from the printer, and then remove the cover.

CAUTION: M507x/E50145x only: As the cover is rotated up, carefully pass the cables the hole in the chassis (callout 1).

IMPORTANT: If the top cover is being replaced, make sure to transfer the WiFi PCA from the discarded cover to the replacement cover.

NOTE: LCD control panel models only: Disconnect the control panel before removing the cover.

Figure 1-873 Remove the cover (M507/E50145)

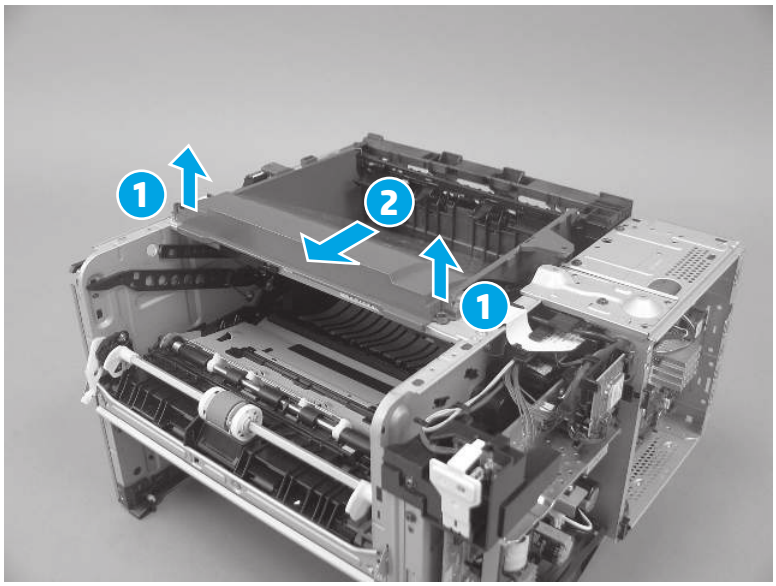


18. Remove the paper delivery tray (output bin).

NOTE: A SFP printer is shown in this section. However, the procedure is correct for all printer models.

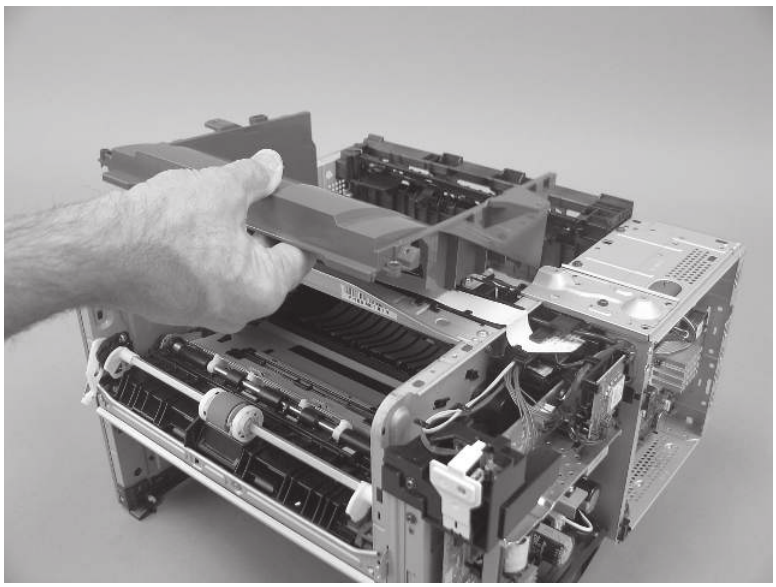
a. Release two tabs (callout 1), and then slide the cover toward the front of the printer (callout 2).

Figure 1-874 Release two tabs



b. Remove the bin.

Figure 1-875 Remove he bin

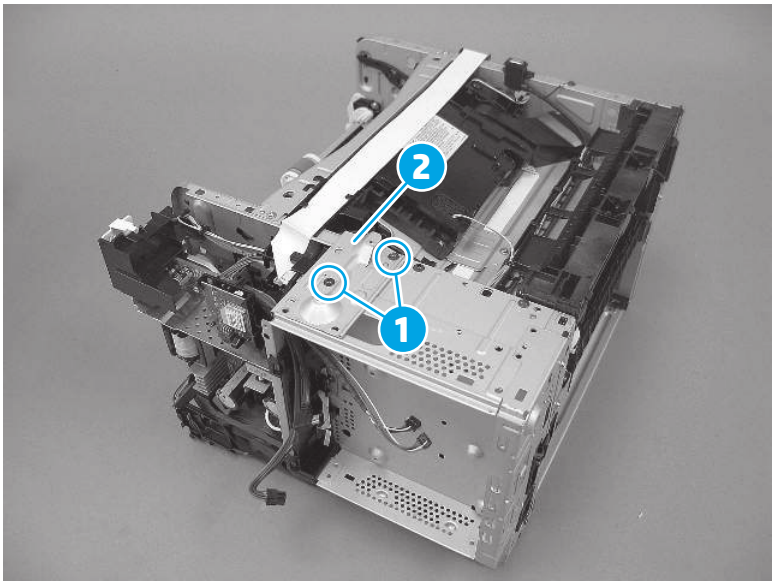


19. Remove the formatter case.

a. **M506/E50045/M507/E50145 only**: Remove two screws (callout 1), and then remove the sheet-metal plate (callout 2).

NOTE: **M507/E50145 only**: The M507/E50145 sheet-metal plate includes a separate black plastic cable guide (not shown). Do not lose the guide when removing the plate.

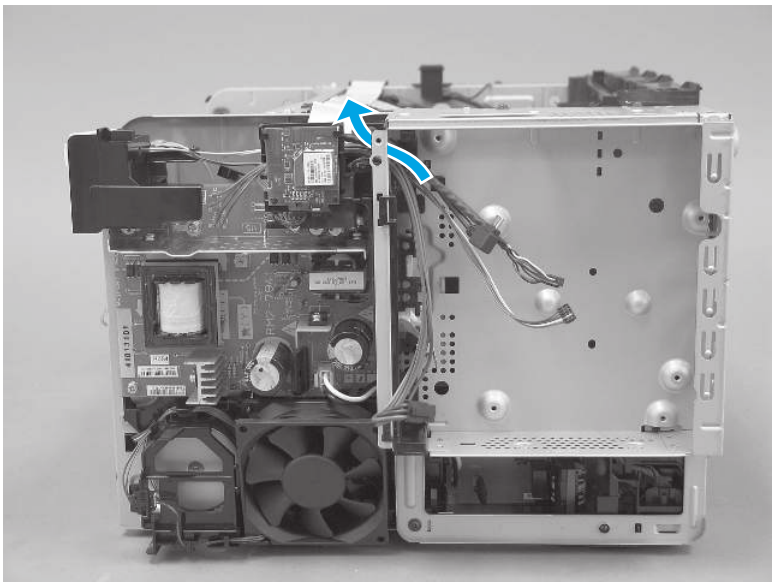
Figure 1-876 Remove the sheet-metal plate



b. Carefully pass all cables and wire harnesses through the opening in the formatter case.

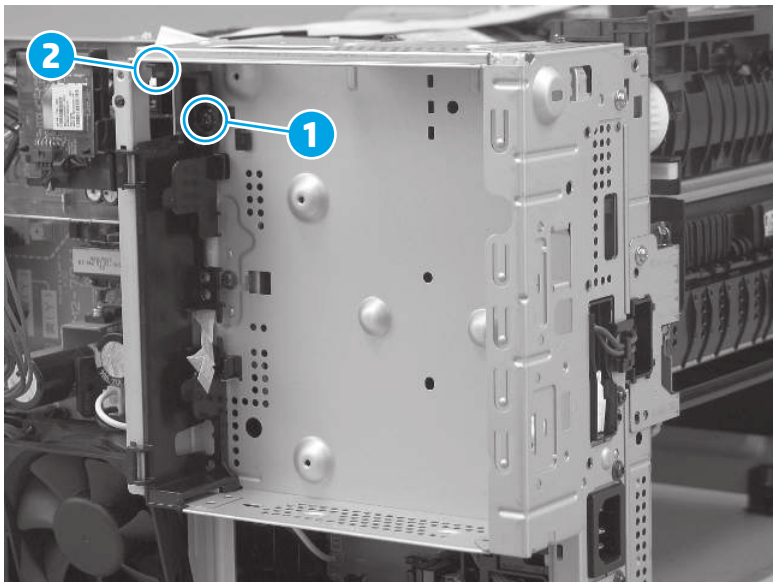
NOTE: A SFP printer is shown in this section. However, the procedure is correct for all printer models.

Figure 1-877 Pass all cables and wire harnesses through the opening



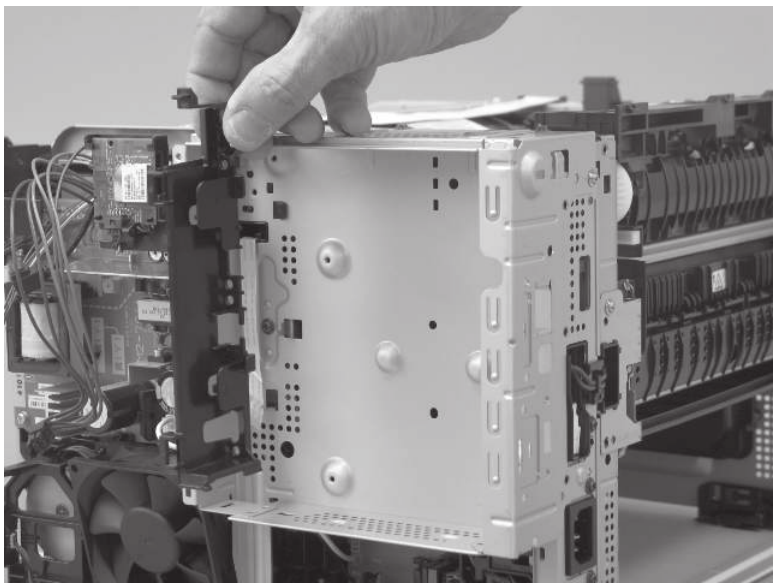
c. Remove one screw (callout 1), and then push down on one tab (callout 2) to release it.

Figure 1-878 Remove one screw



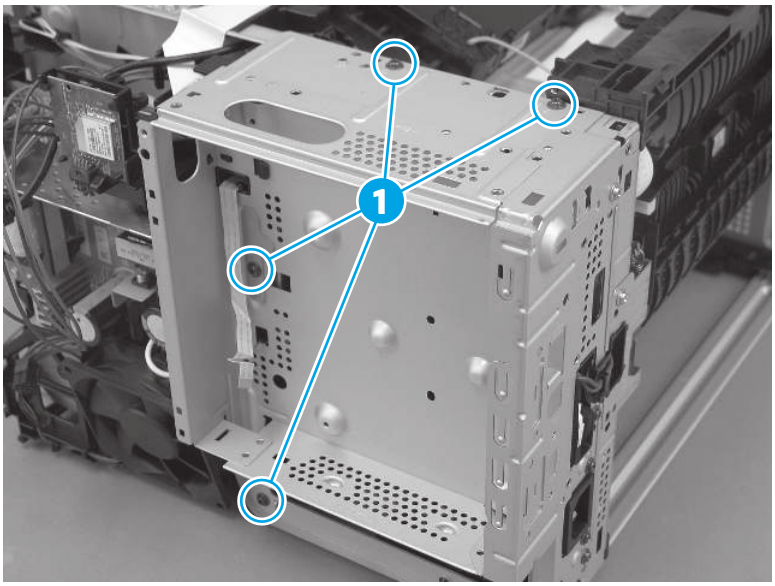
d. Remove the guide.

Figure 1-879 Remove the guide



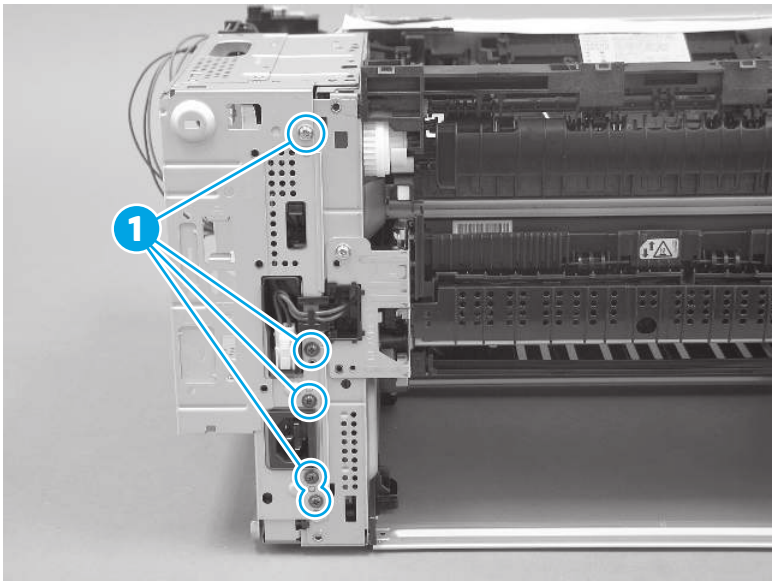
e. Remove four screws (callout 1).

Figure 1-880 Remove four screws



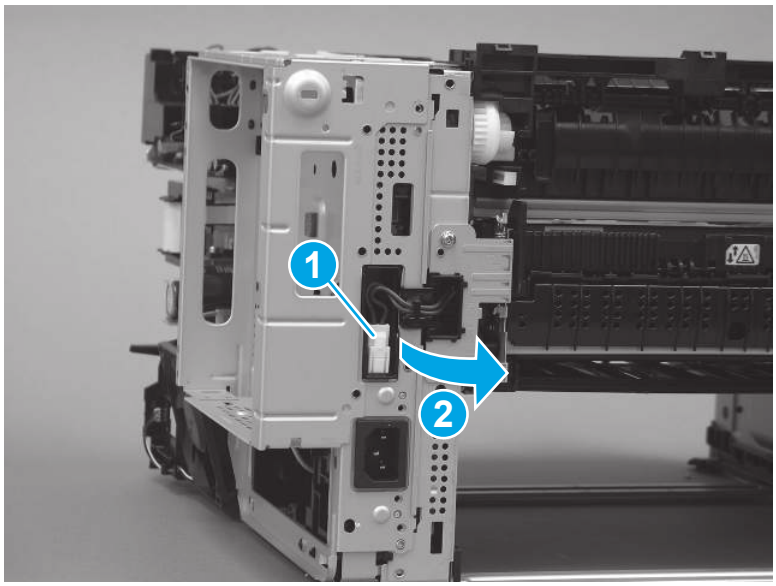
f. Remove five screws (callout 1).

Figure 1-881 Remove five screws



g. Disconnect one connector (callout 1), and then move the guide out of the way (callout 2).

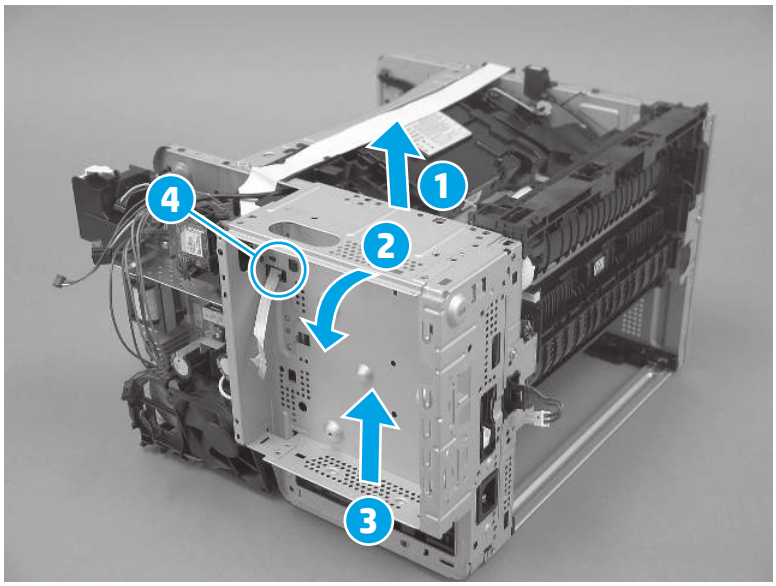
Figure 1-882 Disconnect one connector



h. Slightly lift up the formatter case (callout 1), rotate the top of the case away from the chassis (callout 2), and then lift up the case to release it (callout 3).

⚠ CAUTION: Pass the FFC through the opening (callout 4) in the formatter while removing the case.

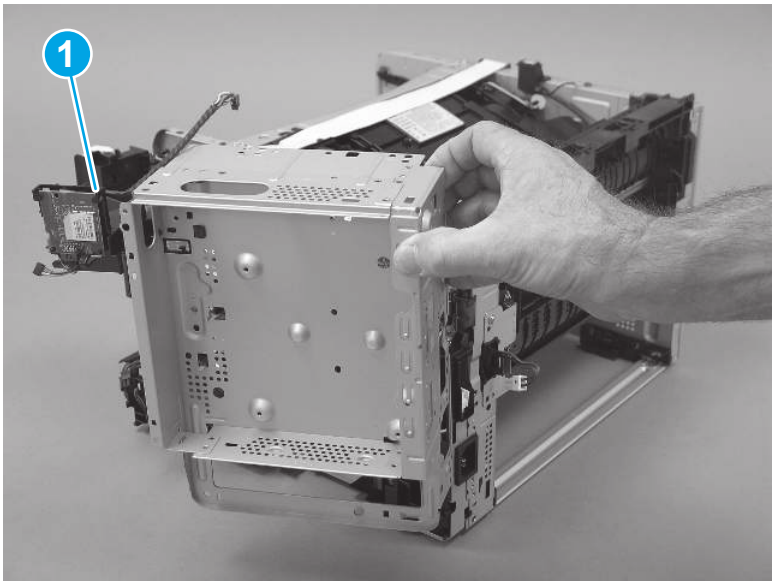
Figure 1-883 Release the formatter case



i. Remove the formatter case.

NOTE: **WiFi models only**: If the formatter case is being replaced, make sure that the WiFi PCA and bracket (callout 1) are transferred to the replacement case.

Figure 1-884 Remove the formatter case

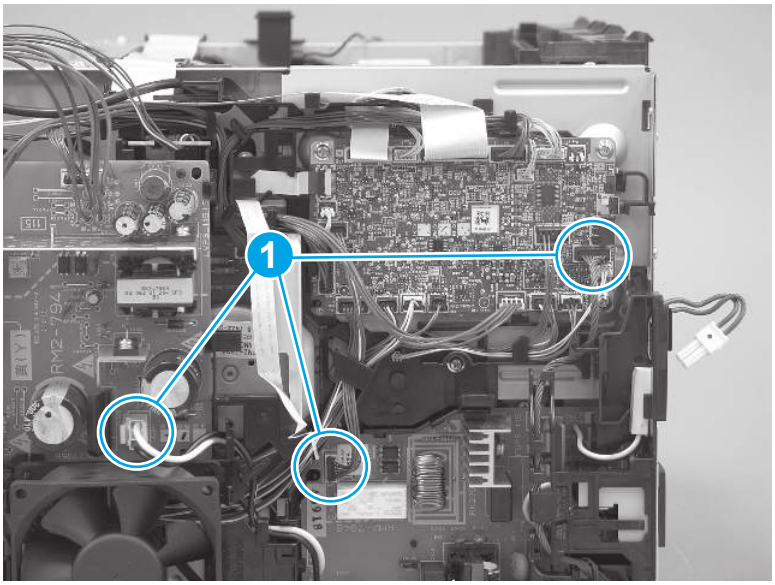


20. Remove the fuser power supply (FPS).

TIP: The FPS includes the optional paper feeder connector (Jetlink accessory tray connector) .

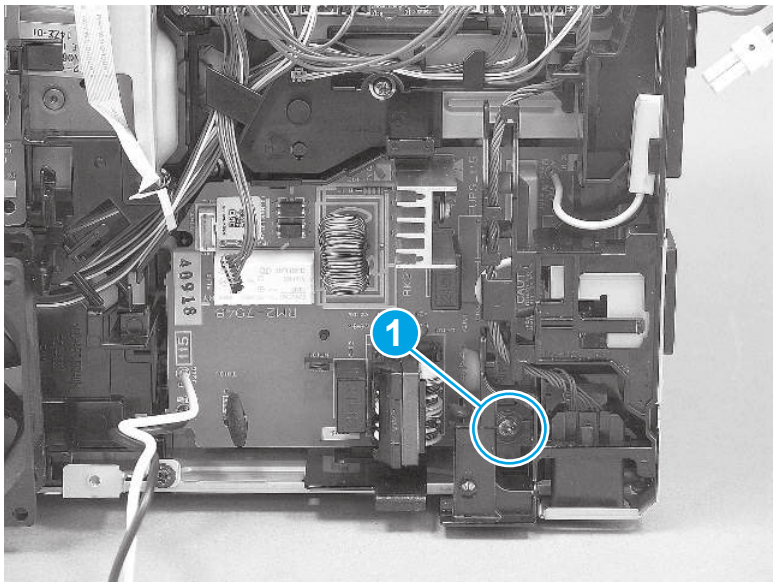
a. Disconnect three connectors (callout 1).

Figure 1-885 Disconnect three connectors

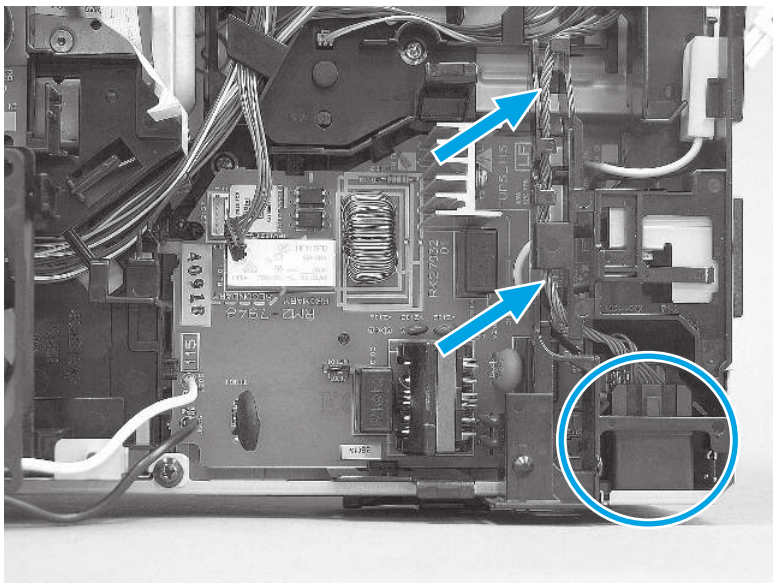


b. Remove one screw (callout 1).

Figure 1-886 Remove one screw



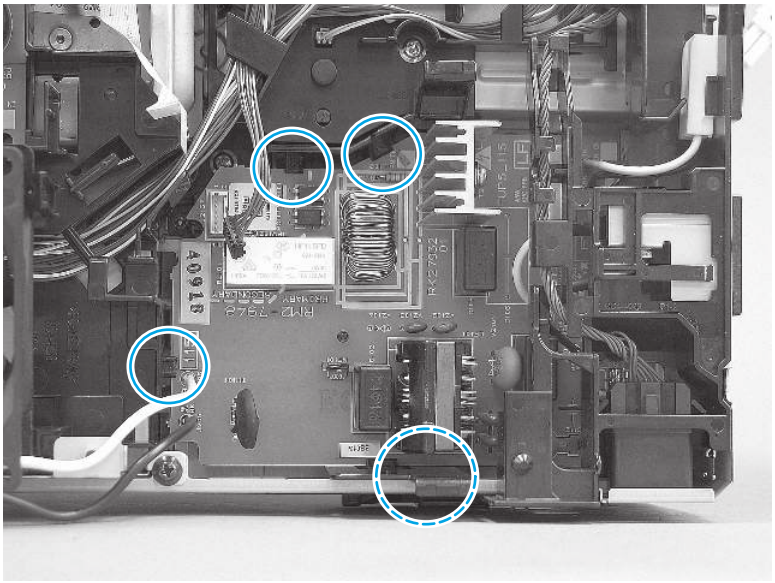
c. Disconnect the tray accessory connector (circle callout) and release the wire harness from the guide.



d. Release four tabs.

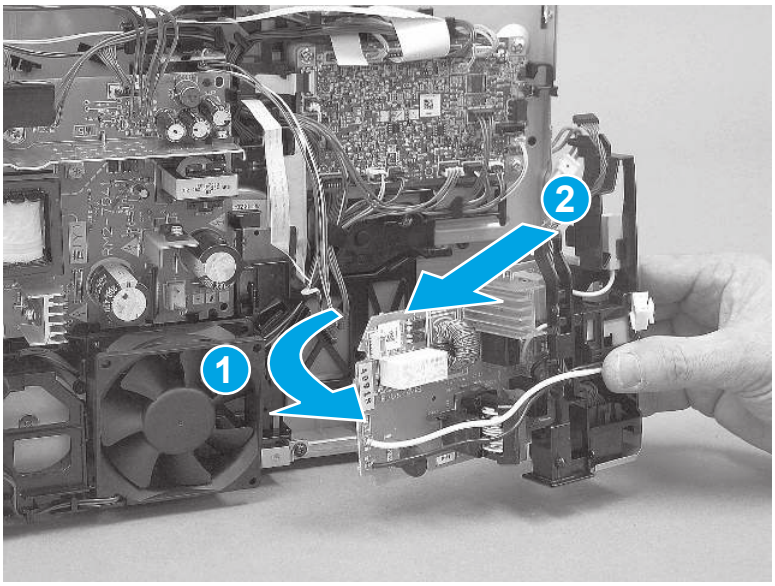
TIP: It might be easier to release the upper two tabs by using a small flat-blade screw driver.

Figure 1-887 Release four tabs



e. Rotate the left end of the assembly out and away from the printer (callout 1), slide the assembly to the left to release the right side alignment pins (callout 2), and then remove the assembly.

Figure 1-888 Remove the assembly



21. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the

sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Removal and replacement: DC controller

Learn how to remove and replace the DC controller.

CAUTION: Never remove and then install a replacement DCC and formatter at the same time. Doing so will cause the printer to become unstable.

If a replacement DCC and formatter must be installed, first remove and install the formatter. Test operate the printer, and then if necessary install a replacement DCC.

IMPORTANT: Some figure might show assemblies removed or installed that have not yet been removed at that specific step. However, the procedures are correct for this printer and the target assembly. **Always** thoroughly read the instructions that accompany each figure.

To view a short video of this procedure, click the link below.

M501

View a video of how to remove and replace the DCC (M501).

M506/E50045

View a video of how to remove and replace the DCC (M506M506/E5004).

M507/E50145

View a video of how to remove and replace the DCC (M507/E50145).

M527/E52545/M528/E52645

View a video of how to remove and replace the DCC (M527/E52545/M528/E52645).

Mean time to repair: 12 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

WARNING! To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-40 Part information

Part number	Part description
RM2-8610-000CN	DC controller (M527/E52545/M528/E52645)
RM2-8600-000CN	DC controller (simplex; M506/E50045/M507/E50145)
RM2-8612-000CN	DC controller (duplex; M506/M507/E50145)
RM2-8710-000CN	DC controller (simplex; M501)
RM2-7950-000CN	DC controller (duplex; M501)

Required tools

- Small flat-blade screwdriver
- #2 Phillips screwdriver with a magnetic tip and a 152 mm (6 in) shaft length

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

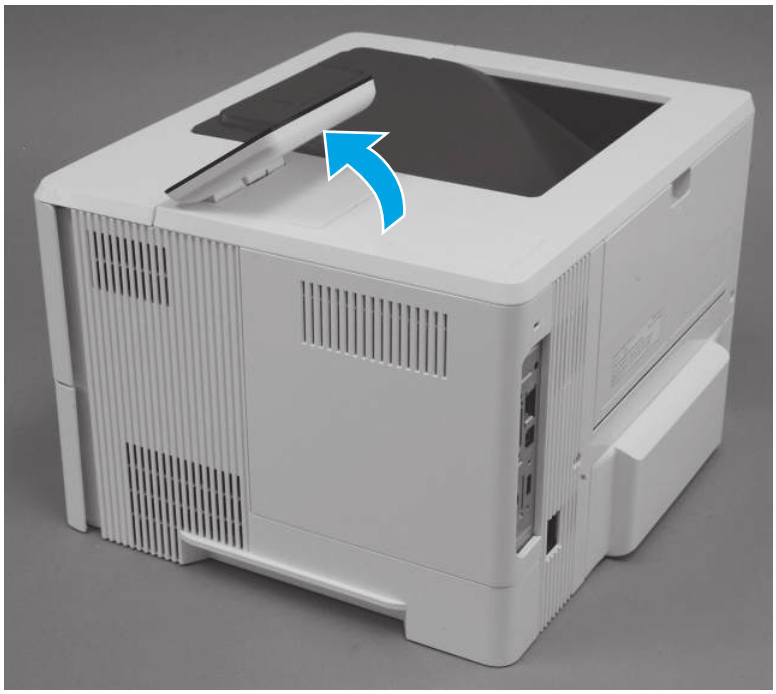
Make sure that the printer initializes to a **Ready** state.

Print a configuration page to make sure that the printer is functioning correctly.

1. Remove the control panel (M506x/E50045x/M507x/E50145x).

a. Tilt the control panel to the fully raised position.

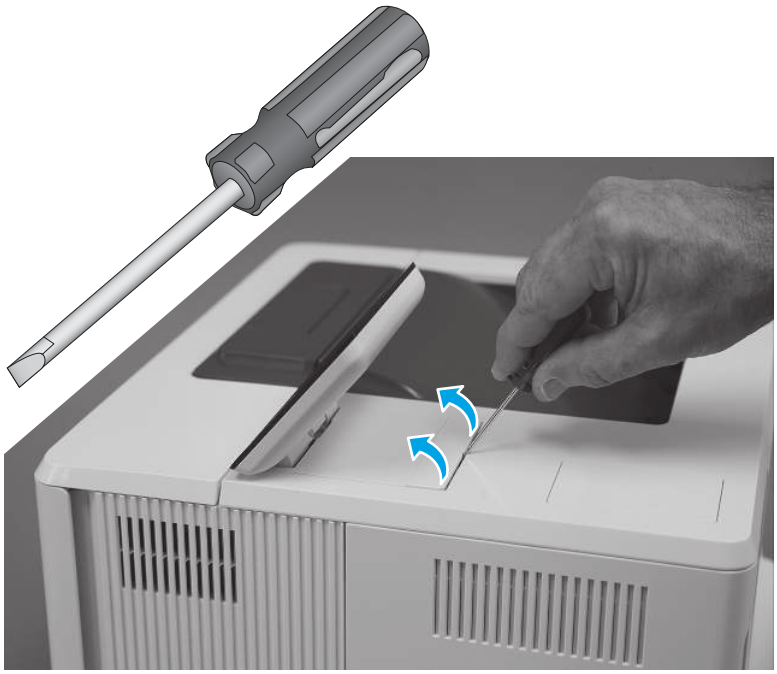
Figure 1-889 Tilt the control panel up



b. Use the small flat-blade screwdriver supplied in the kit to release the control-panel screws cover, and then remove the cover.

TIP: The screwdriver has a reversible shaft. Simply pull the shaft out of the handle, and then reinstall it with the desired end facing out.

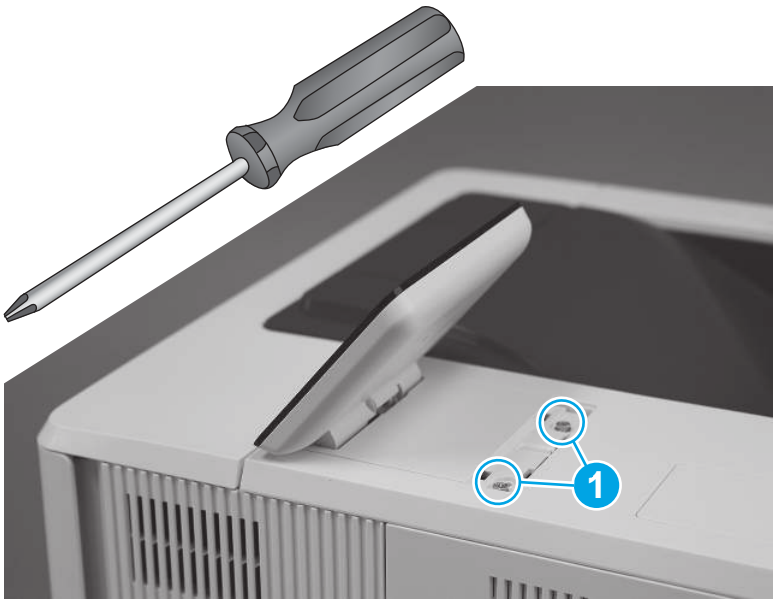
Figure 1-890 Remove the cover



c. Use the small Phillips screwdriver supplied in the kit to remove two screws (callout 1).

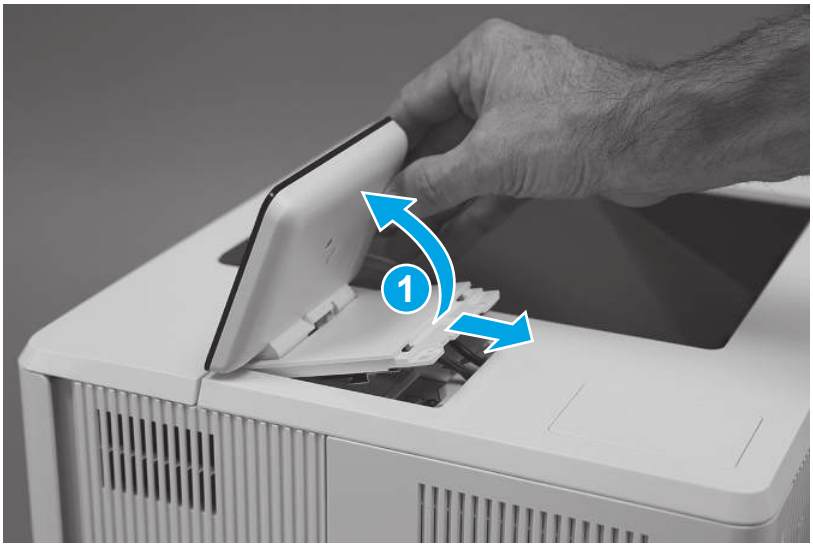
IMPORTANT: Store the screws in a secure place where they cannot fall down into the printer.

Figure 1-891 Remove two screws



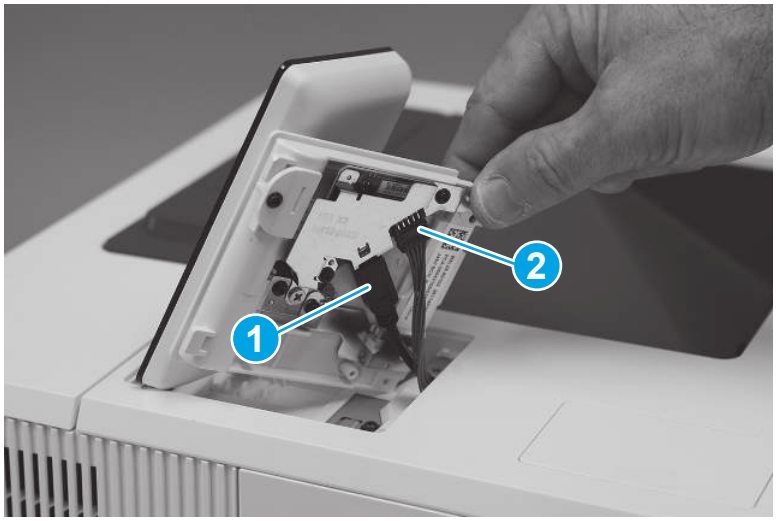
d. Turn the control panel over (callout 1), to gain access to the bottom side.

Figure 1-892 Turn the control panel over



e. **M506/E50045 only**: Disconnect one HDMI cable (callout 1), one connector (callout 2), and then remove the control panel.

Figure 1-893 Remove the control panel (M506/E50045)



f. **M507/E50154 only**: If the formatter cover has not been removed, remove it now. Disconnect one flat-flexible cable (FFC).

⚠ CAUTION: ESD sensitive part.

NOTE: This connector is a zero-insertion force (ZIF) connector. Open the locking clip. The clip is easily dislodged and lost.

Figure 1-894 Disconnect one FFC (M507/E50145)

g. **M507/E50145 only**: Pass the FFC through the opening in the cover, and then remove the control panel.

⚠ CAUTION: ESD sensitive part.

Figure 1-895 Remove the control panel (M507/E50145)

2. Remove the tray.

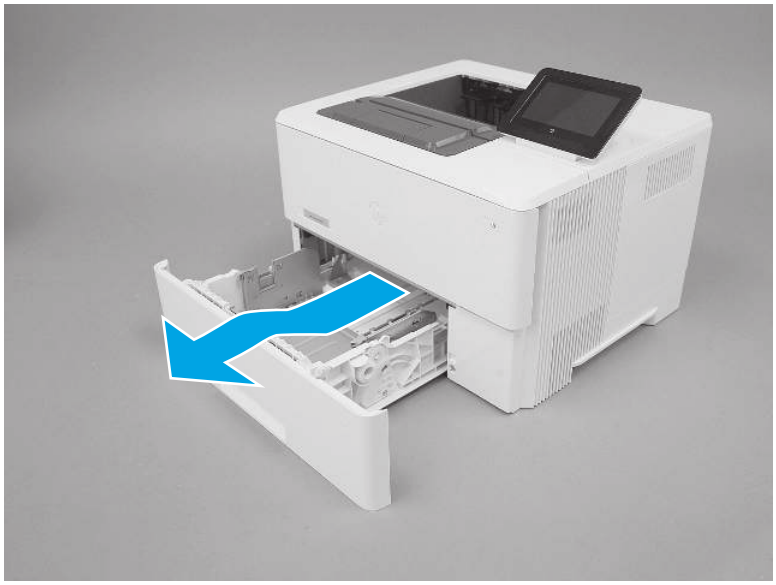
   a. Pull the tray straight out of the printer until it stops.

   Figure 1-896 Pull the tray out until it stops

   b. Lift the front of the tray, and then pull it out of the printer to remove it.

NOTE: If the tray has Fixed Tray Guides installed and are still required, move the hardware to new tray. If necessary, order new kit: 3GY19-67901 Kit-Fixed Tray Guide. Only one kit required per engine.

Figure 1-897 Release and remove the tray

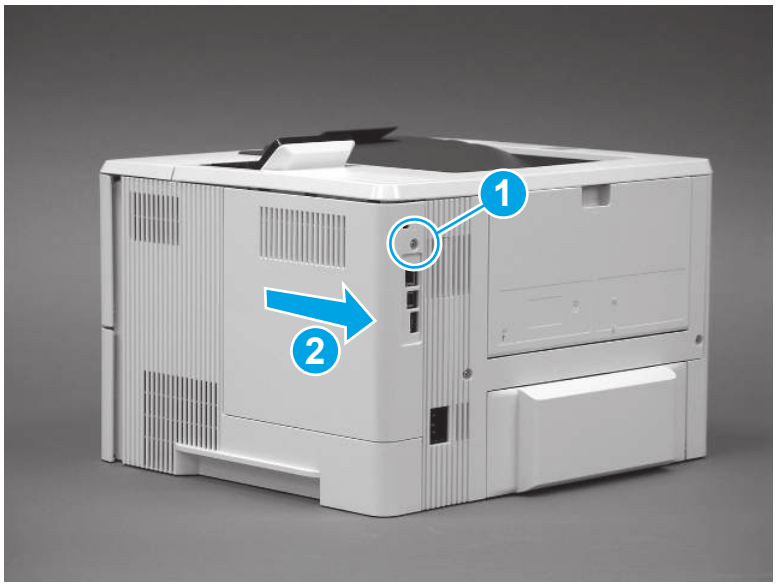


3. Remove the formatter cover.

▲ Do one of the following:

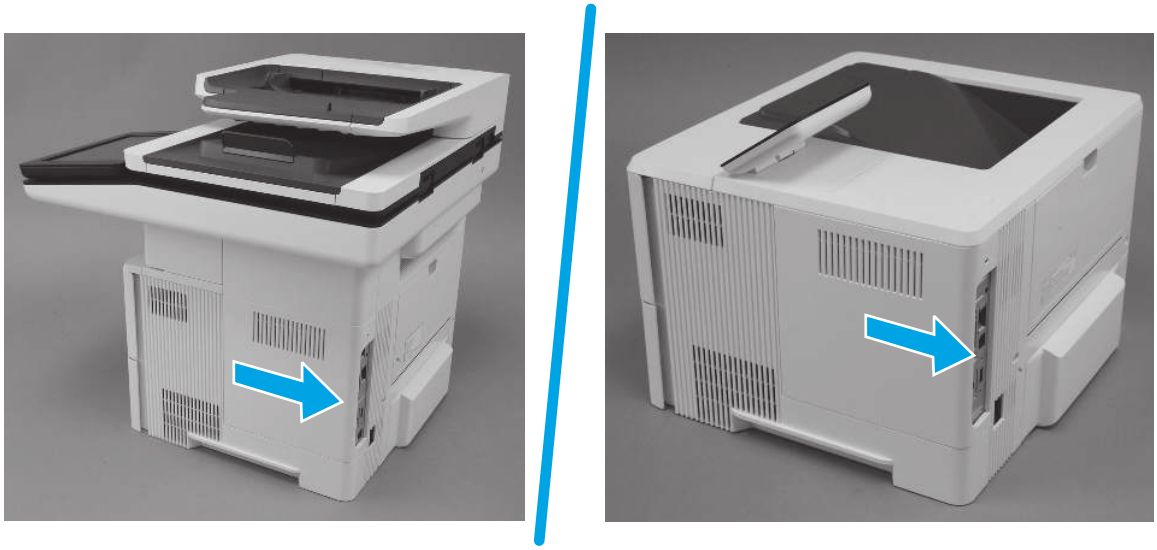
- M501: Remove one screw (callout 1), and then slide the cover toward the rear of the printer to remove it (callout 2).

Figure 1-898 Remove the formatter cover (M501)



- M506/E50045/M507/E50145/M527/E52545/M528/E52645: Slide the cover toward the rear of the printer to remove it.

Figure 1-899 Remove the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)

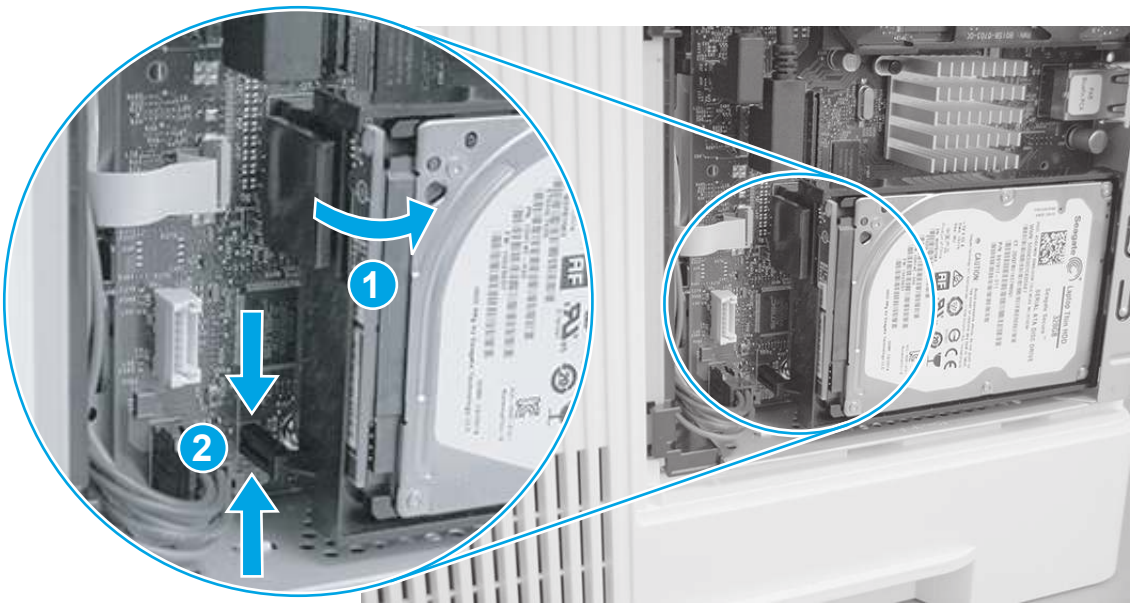


4. Remove the hard-disk drive (HDD models).

CAUTION: ESD sensitive part.

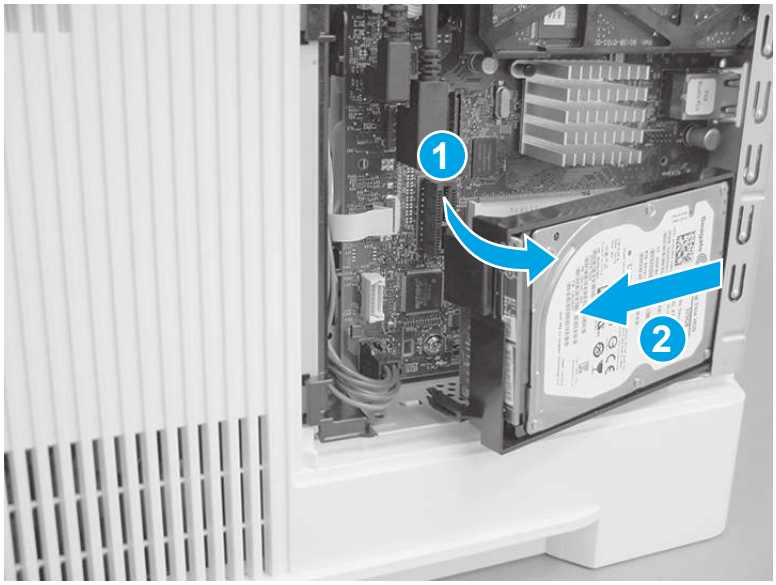
a. Release the locking connector (callout 1), and then pinch the retainer (callout 2) to release it.

Figure 1-900 Release the HDD



b. Rotate the connector end of the HDD out and away from the formatter (callout 1), and then slide it as shown (callout 2) to remove it.

Figure 1-901 Remove the HDD

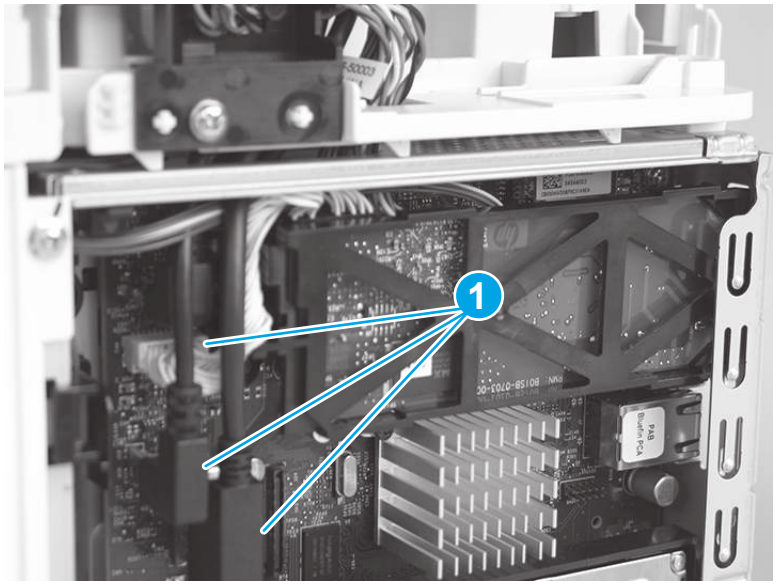


5. Remove the fax PCA (M527/E52545/M528/E52645 fax models).

⚠ CAUTION: ESD-sensitive part.

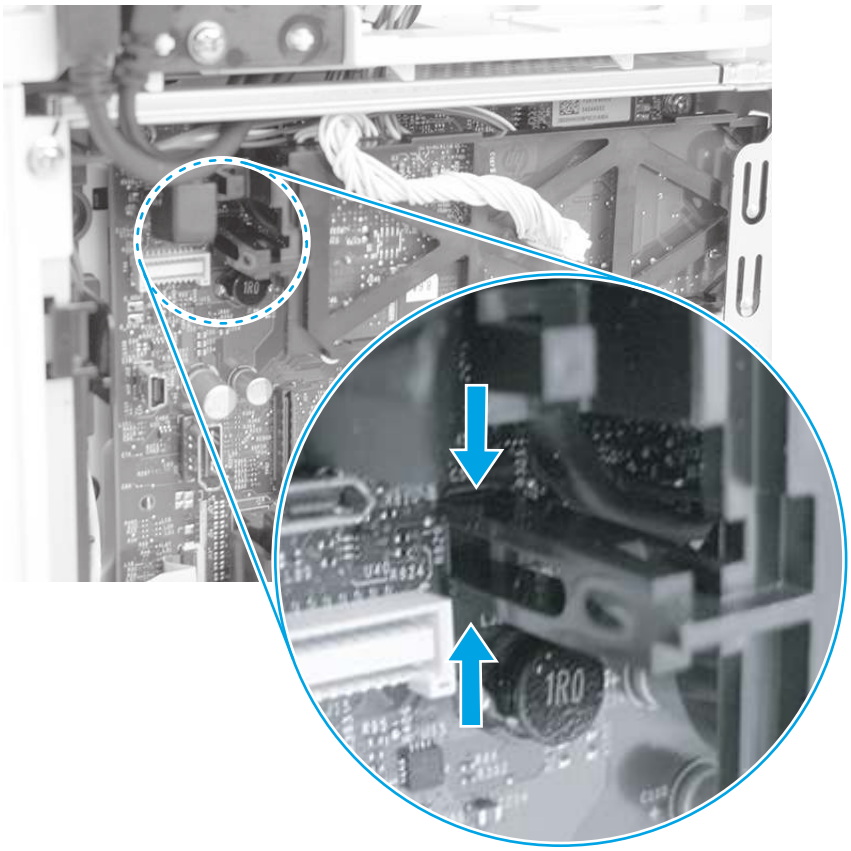
a. Disconnect three connectors (callout 1).

Figure 1-902 Disconnect three connectors



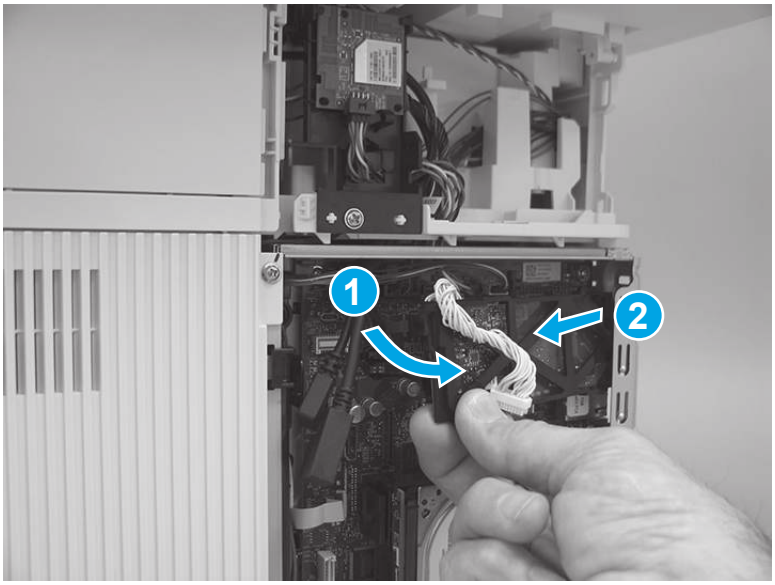
b. Pinch the retainer to release it.

Figure 1-903 Release the fax PCA



c. Rotate the connector end of the fax PCA out and away from the formatter (callout 1), and then slide it as shown (callout 2) to remove it.

Figure 1-904 Remove the fax PCA



6. Remove the formatter.

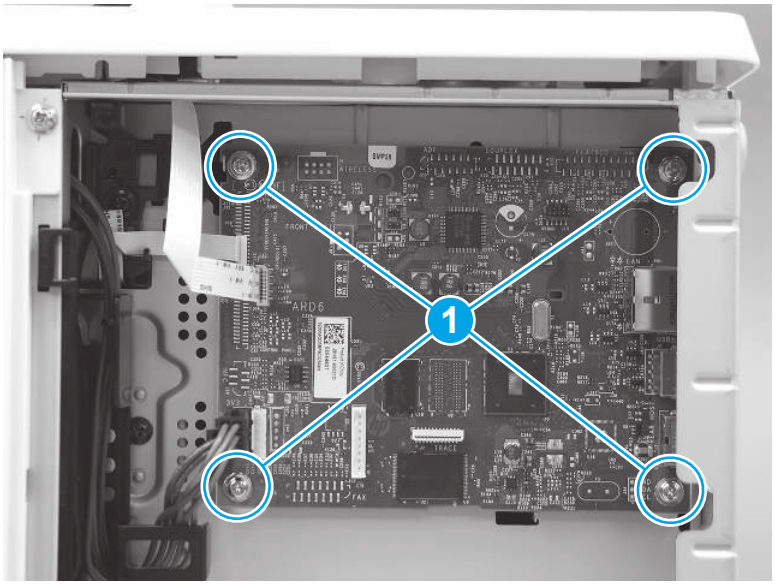
CAUTION: Never remove and then install a replacement DCC and formatter at the same time. Doing so will cause the printer to become unstable.

If a replacement DCC and formatter must be installed, first remove and install the formatter. Test operate the printer, and then if necessary install a replacement DCC.

IMPORTANT: Take note of all empty connectors on the PCA before disconnecting any wire harnesses or flat-flexible cables (FFCs). Some empty connectors might not be visible until other items—like the hard-disk drive—are removed, so pay close attention while removing the formatter and accessory items.

a. M501: Disconnect all of the connectors and FFCs, remove four screws (callout 1), and then remove the formatter.

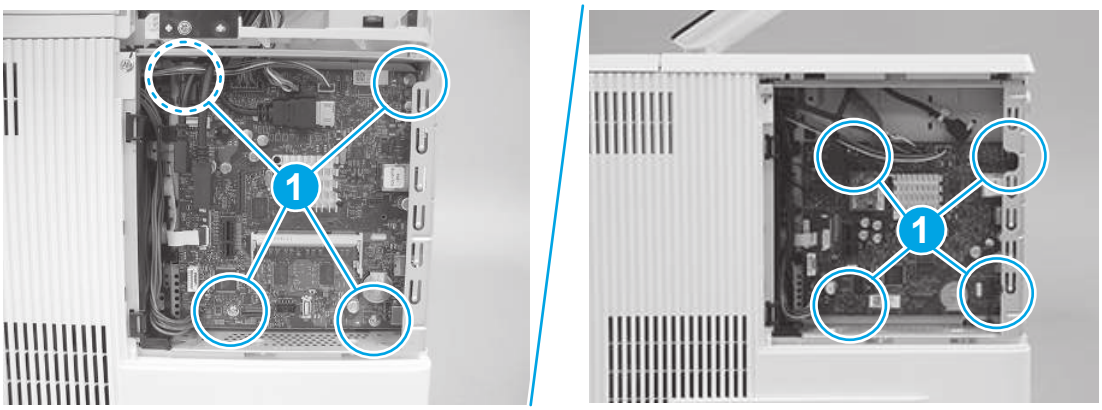
Figure 1-905 Remove the formatter (M501)



b. M506/E50045/M507/E50145/M527/E52545/M528/E52645: Disconnect all of the connectors and FFCs, remove four screws (callout 1), and then remove the formatter.

IMPORTANT: Take note of all empty connectors on the formatter before disconnecting any wire harnesses or flat-flexible cables (FFCs). Some empty connectors might not be visible until other items—like the hard-disk drive—are removed, so pay close attention while removing the formatter and accessories items.

Figure 1-906 Remove the formatter (M506/E50045/M507/E50145/M527/E52545/M528/E52645)

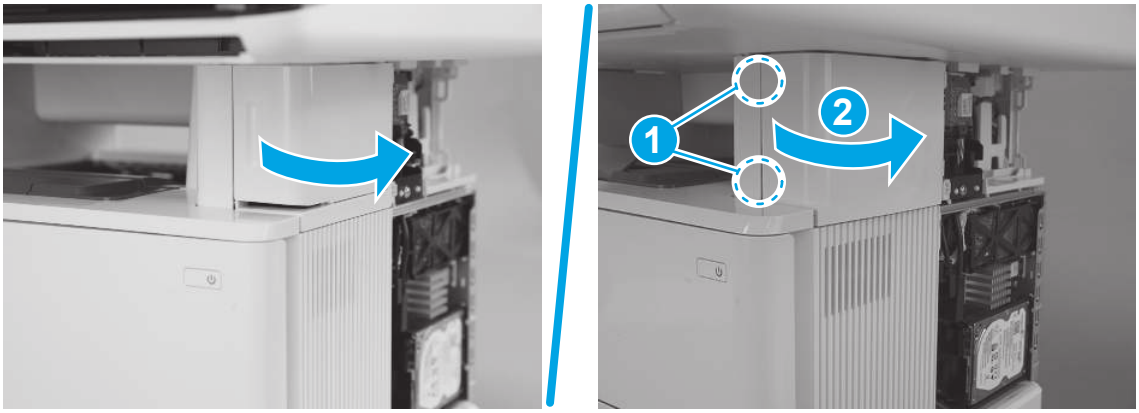


7. Remove the stapler door or stapler blank cover (M527/E52545/M528/E52645).

   a. Do one of the following:

      - **Stapler models**: Open the stapler door.
      - **Non-stapler models**: Use a small flat-blade screw driver to release two tabs (callout 1), and then rotate the cover away from the printer (callout 2).

Figure 1-907 Open the door or release the cover



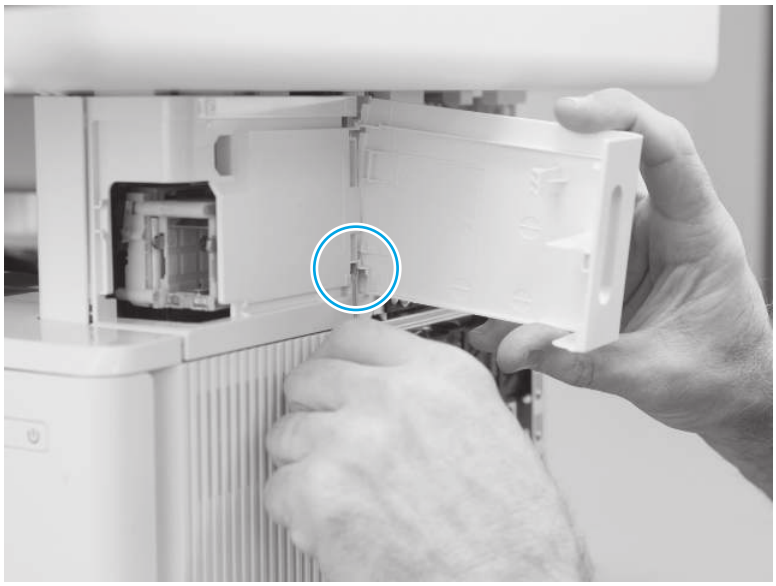
   b. Do one of the following:

      - **Stapler models**: Use a small flat-blade screwdriver to release the upper hinge.
      - **Non-stapler models**: Slide the cover toward the front of the printer to remove it.

Figure 1-908 Release the upper hinge or remove the cover

c. **Stapler models**: Use a small flat-blade screwdriver to release the lower hinge.

Figure 1-909 Release the lower hinge



d. **Stapler models**: Remove the door.

Figure 1-910 Remove the door

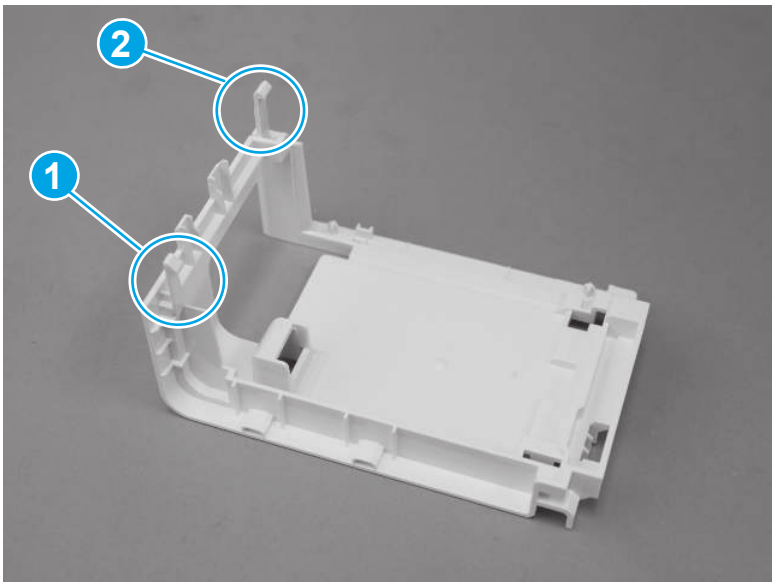
8. Remove the stapler stationary (inner) cover (M527/E52545/M528/E52645).

NOTE: Stapler models only.

a. Before proceeding, take note of the locations of the upper tab (callout 1) and the lower tab (callout 2) on the stapler stationary (inner) cover.

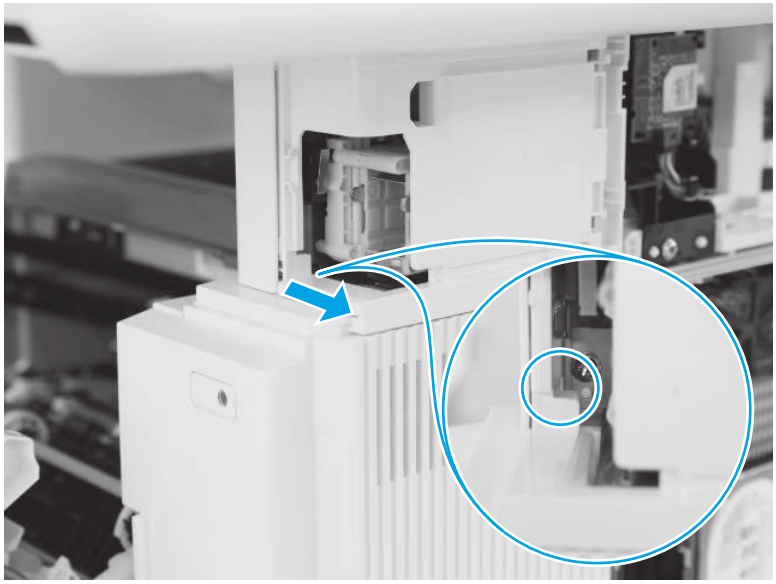
Reinstallation tip: When reinstalling the cover, take note of the location of the tabs.

Figure 1-911 Locate the tabs



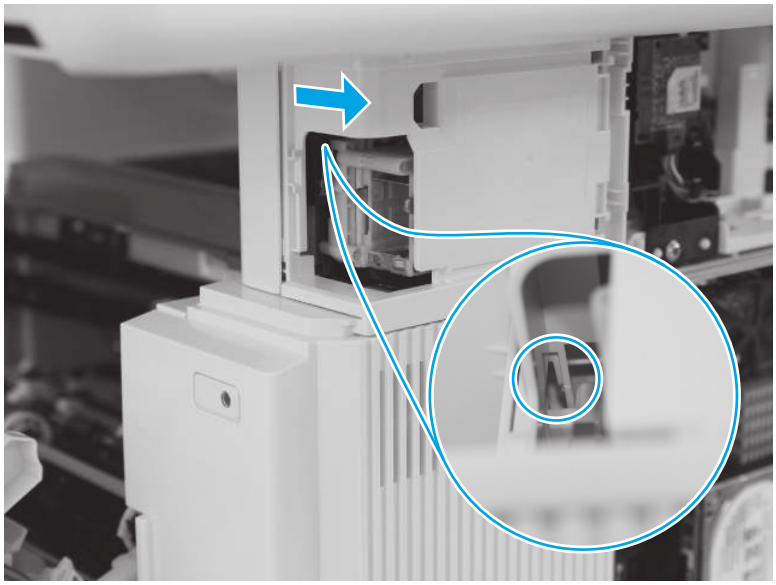
b. Use a long-shaft small flat-blade screwdriver to release the lower tab.

Figure 1-912 Release one tab



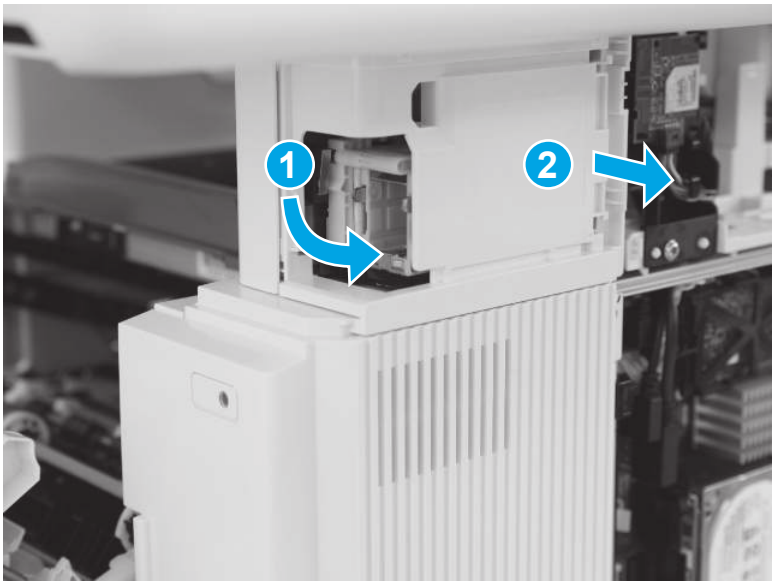
c. Use a long-shaft small flat-blade screwdriver to release the upper tab.

Figure 1-913 Release one tab



d. With the tabs disengaged the front of the cover is released. Rotate the front of the cover away from the printer (callout 1) to release the rear of the cover (callout 2), and then remove it.

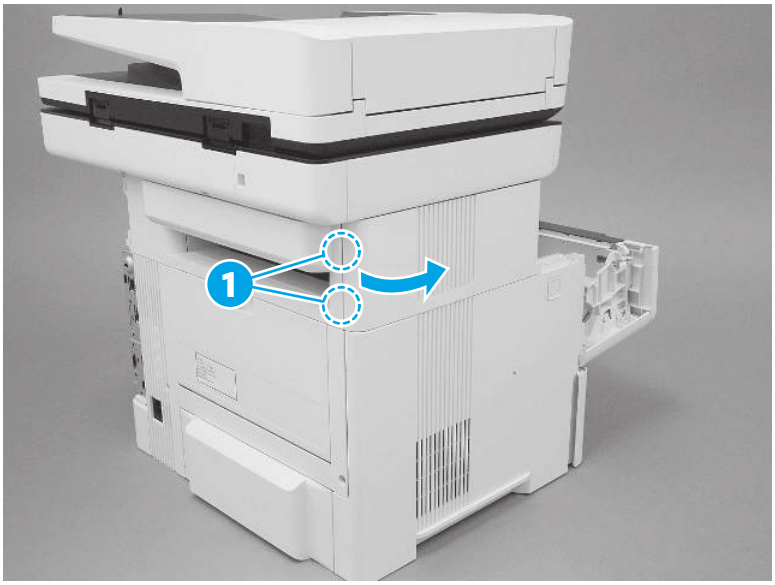
Figure 1-914 Remove the cover



9. Remove the top-left cover (M527/E52545M528/E52645).

a. Open the toner-cartridge door, release two tabs (callout 1), and then rotate the rear edge of the cover away from the printer.

Figure 1-915 Release two tabs



b. Continue to rotate the cover away from the printer to release two more tabs at the middle of the cover.

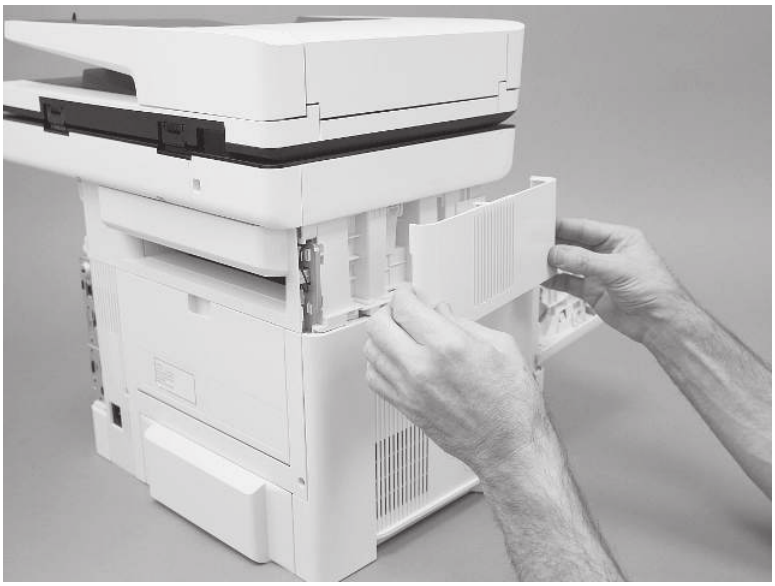
Figure 1-916 Release two tabs

c. Slide the cover toward the rear of the printer to release two bosses at the front of the cover.

Figure 1-917 Slide the cover

d. Remove the cover.

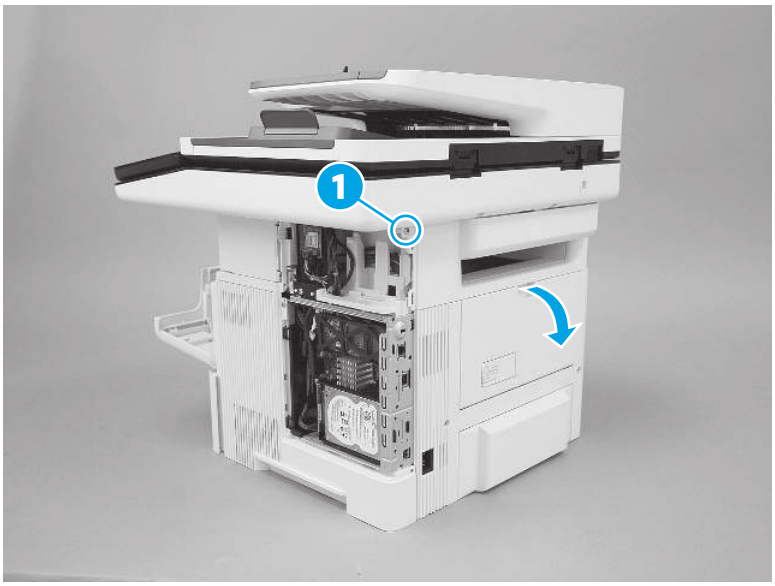
Figure 1-918 Remove the cover



10. Remove the top-rear cover (M527/E52545/M528/E52645).

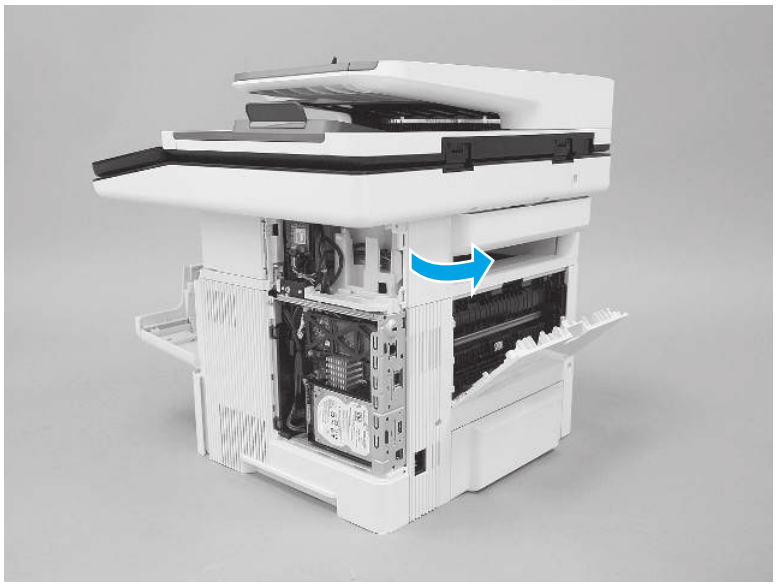
a. Remove one screw (callout 1), and then open the rear door.

Figure 1-919 Remove one screw



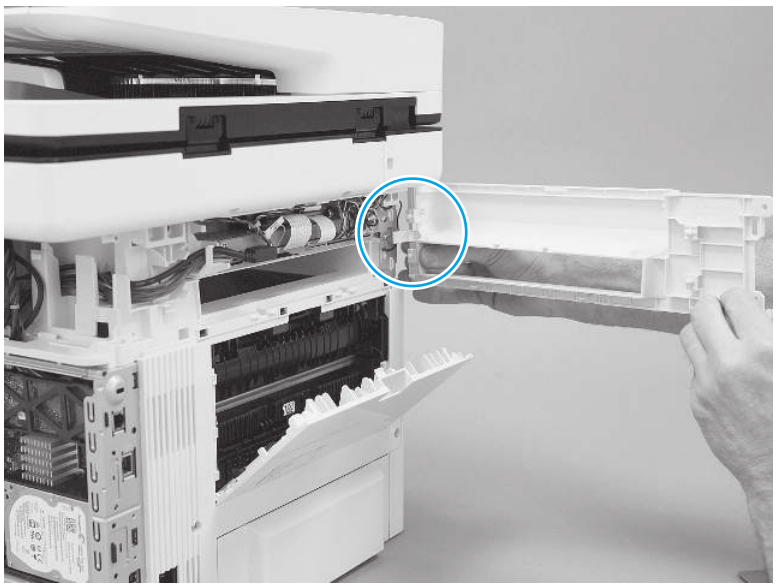
b. Rotate the exposed edge of the cover away from the printer (as shown).

Figure 1-920 Rotate the cover



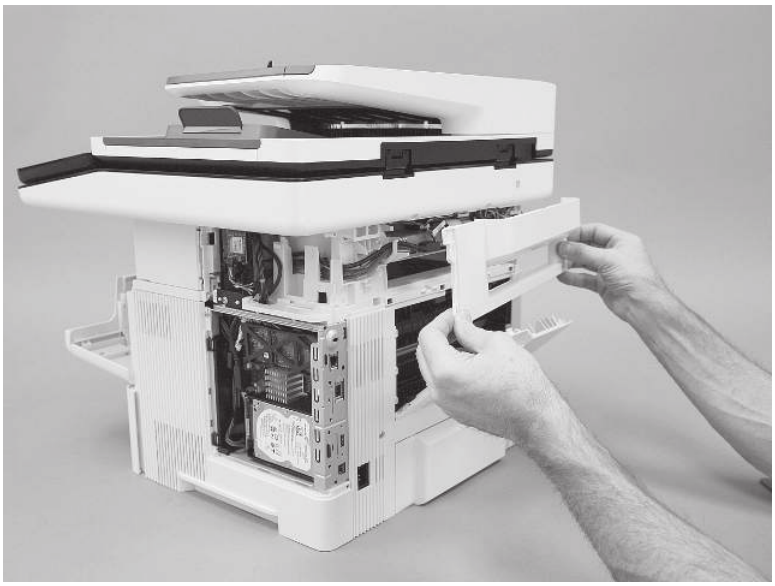
c. Continue to rotate the cover away from the printer to release one boss.

Figure 1-921 Release one boss



d. Remove the cover.

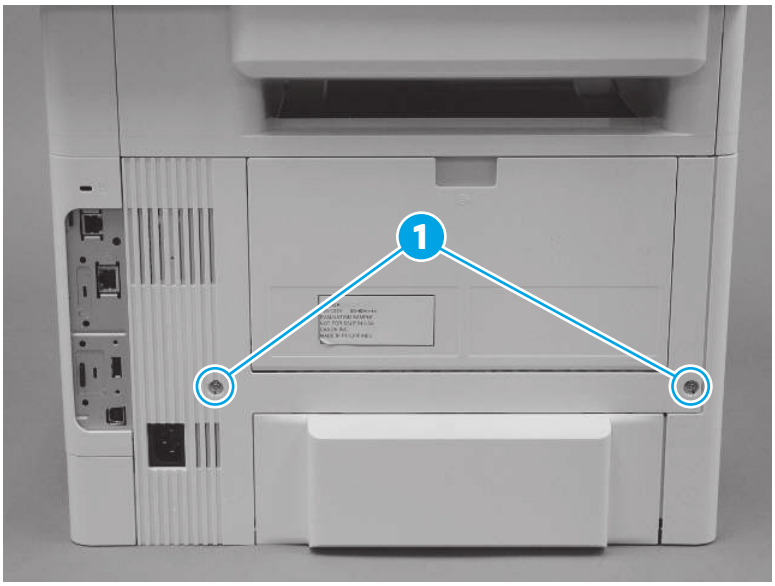
Figure 1-922 Remove the cover



11. Remove the rear door assembly.

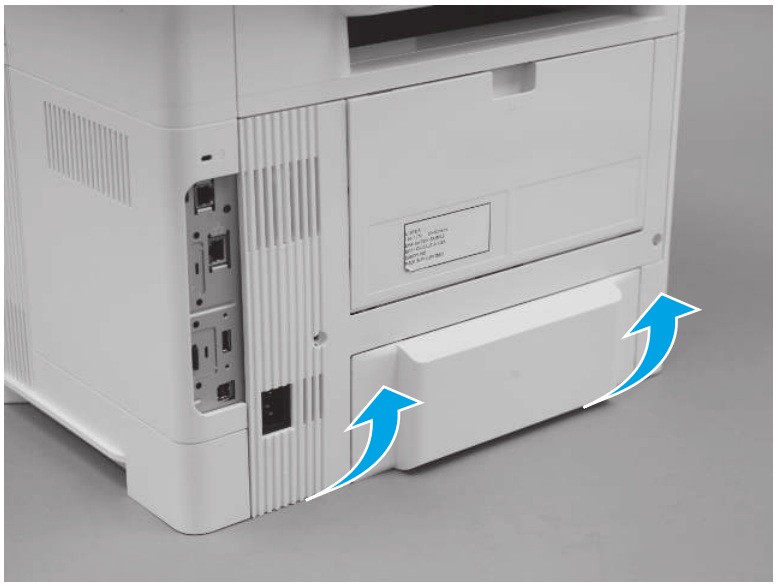
a. At the rear of the printer, remove two screws (callout 1).

Figure 1-923 Remove two screws



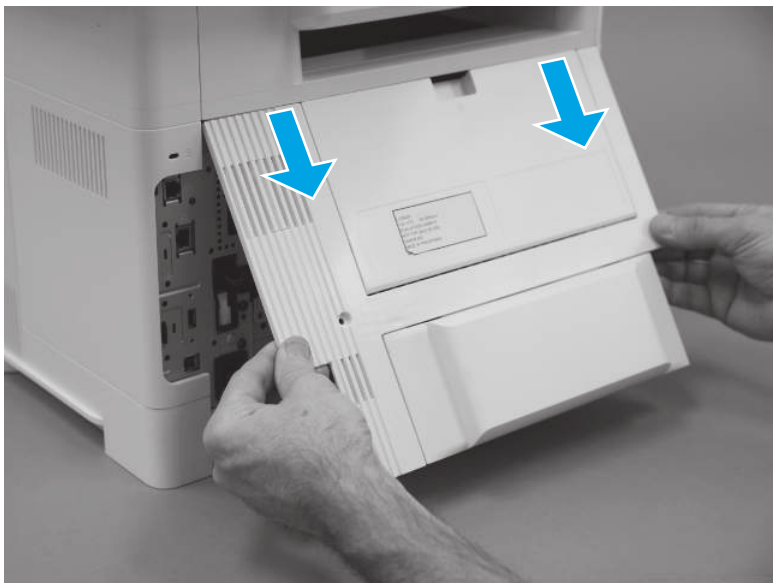
b. Rotate the bottom edge of the assembly away from the printer to release it.

Figure 1-924 Rotate the bottom of the cover



c. Pull down on the assembly to remove it.

Figure 1-925 Remove the cover



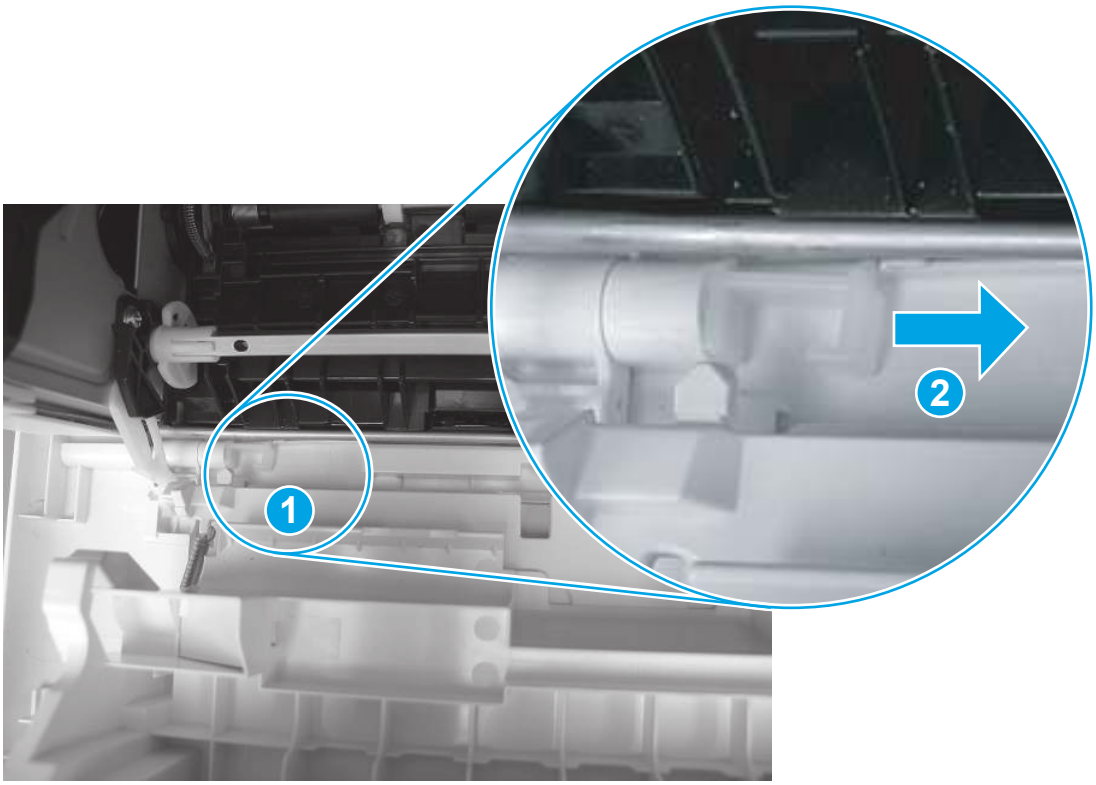
12. Remove the cartridge door assembly.

NOTE: If the toner cartridge was not removed prior to servicing the printer, remove it now.

a. Release the support shaft (callout 1), and then slide it toward the center of the door (callout 2).

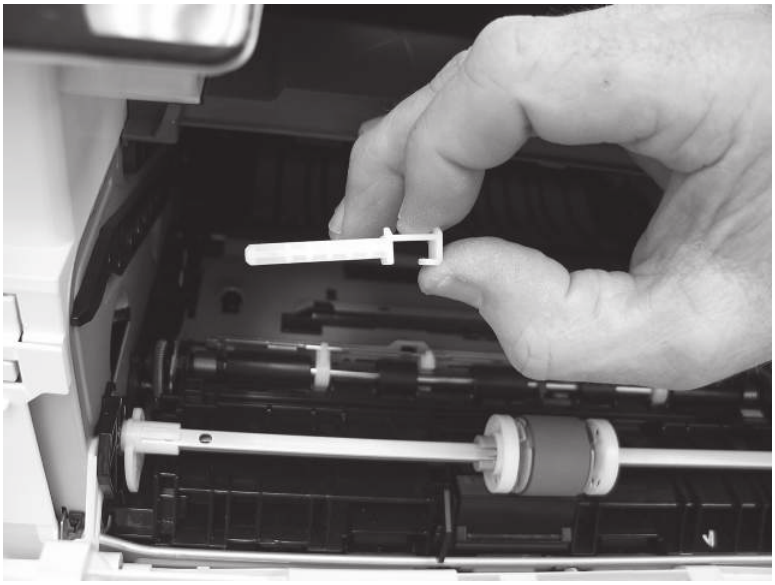
TIP: It might be easier to release the support shaft by using a small flat-blade screwdriver.

Figure 1-926 Release the support shaft



b. Remove the support shaft.

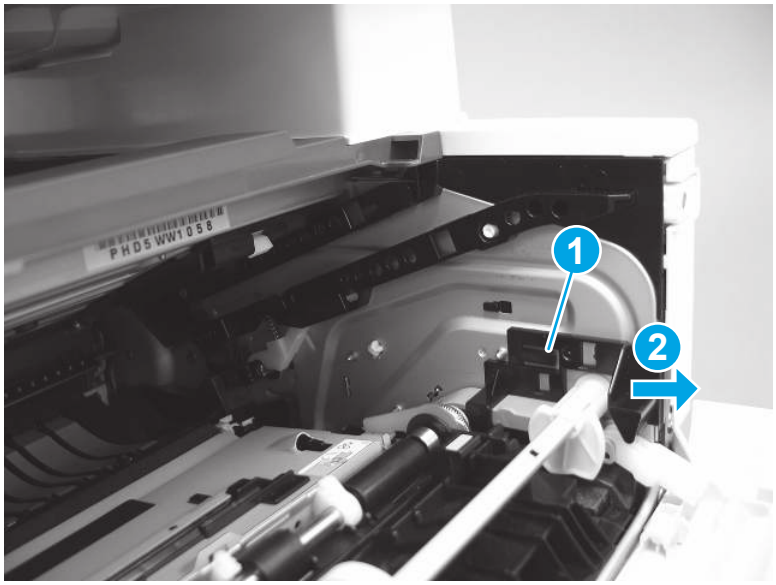
Figure 1-927 Remove the support shaft



c. Release one tab (callout 1), and then slide the guide out of the printer (callout 2).

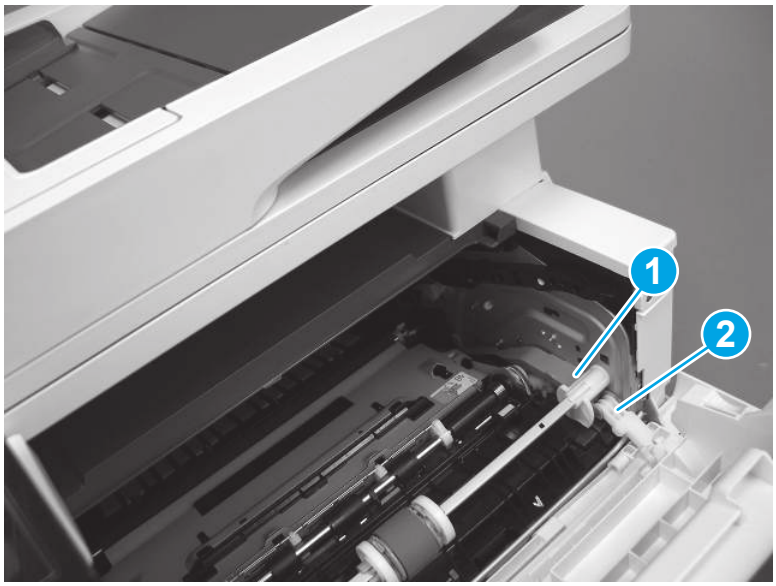
⚠ CAUTION: Be careful, the tab (callout 1) can be easily broken.

Figure 1-928 Remove the guide



d. Use a small flat-blade screwdriver to gently pry the white-plastic door arm (callout 1) off of the gray-plastic pressure-release link (callout 2) to release the door arm.

Figure 1-929 Release the pressure-release link



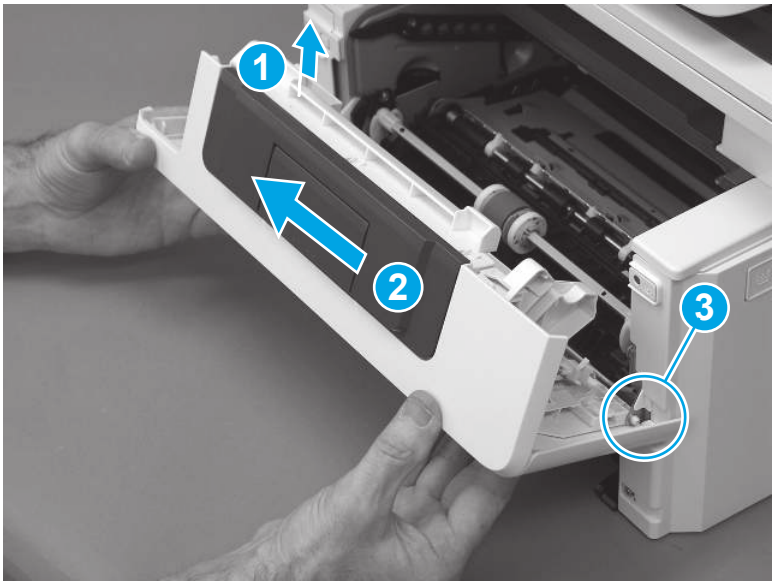
e. With the door in the partially closed position, slightly raise the left end (callout 1; raise it over the sheet-metal hinge boss), and then slide the door to the left (callout 2) to release the right hinge (callout 3).

⚠ CAUTION: The door is still attached to the printer by the left-side retainer arm. Do not attempt to completely remove the door.

Reinstallation tip: When reinstalling the door, there are two right-side hinge pins (not shown in callout 3).

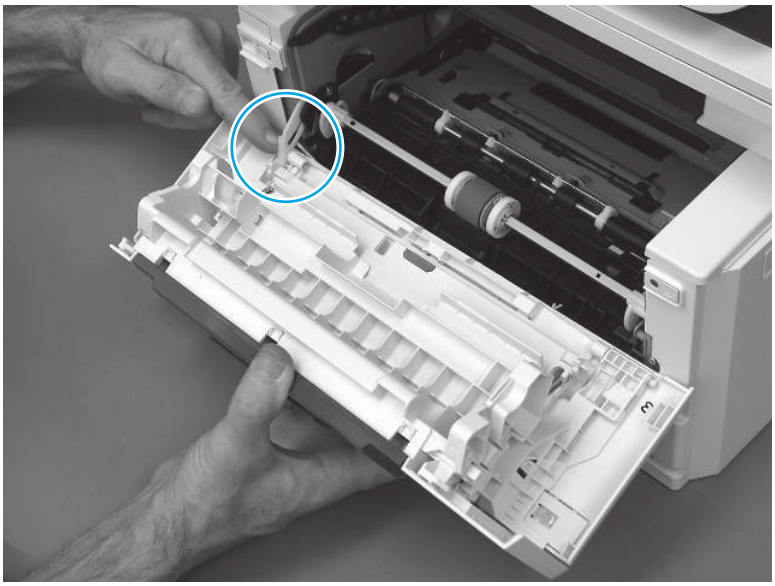
Keep a finger pressed on the left-side retainer arm so that it does not disengage from the door.

Figure 1-930 Release the door



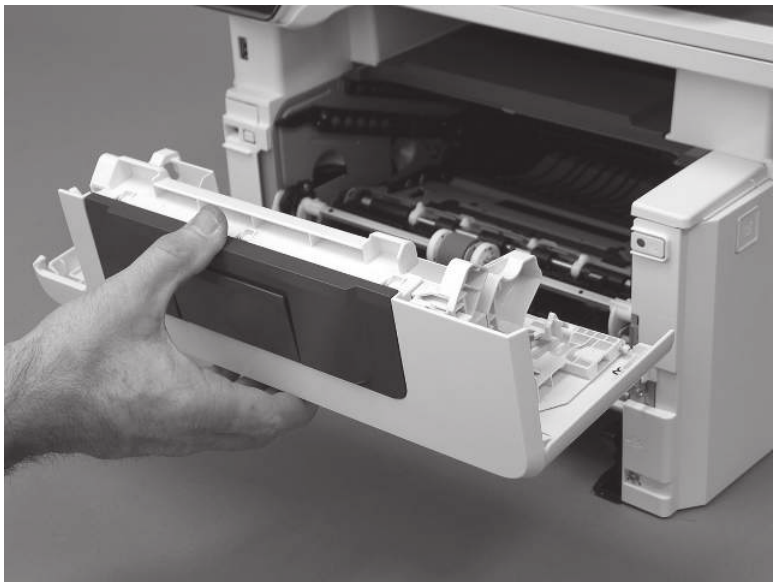
f. Rotate the door away from the printer until the keyed pin on the left-side retainer arm can disengage from the door.

Figure 1-931 Release the left-side retainer arm



g. Remove the door.

Figure 1-932 Remove the door



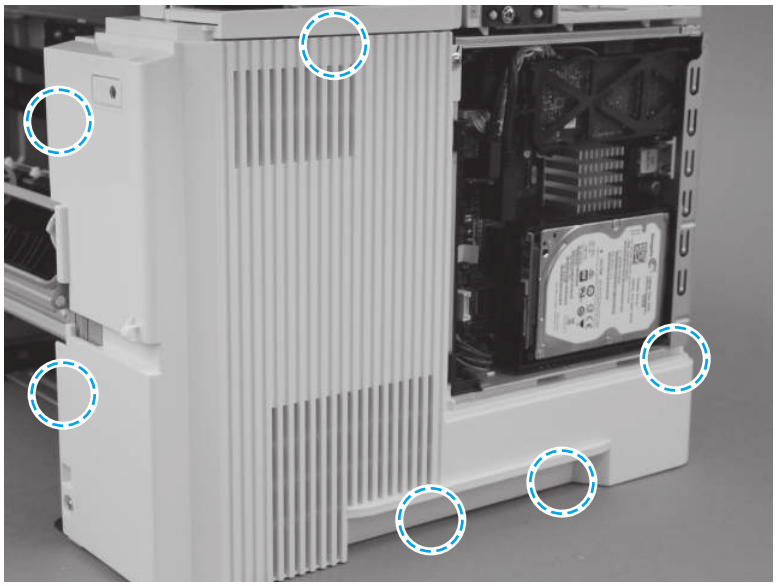
13. Remove the right cover.

IMPORTANT: The black-plastic cassette front and rear guides (located inside the tray cavity) can be easily dislodged. Do not lose the guides when the cover is removed or installed.

An MFP printer is shown in this section. However, the procedure is correct for all printer models.

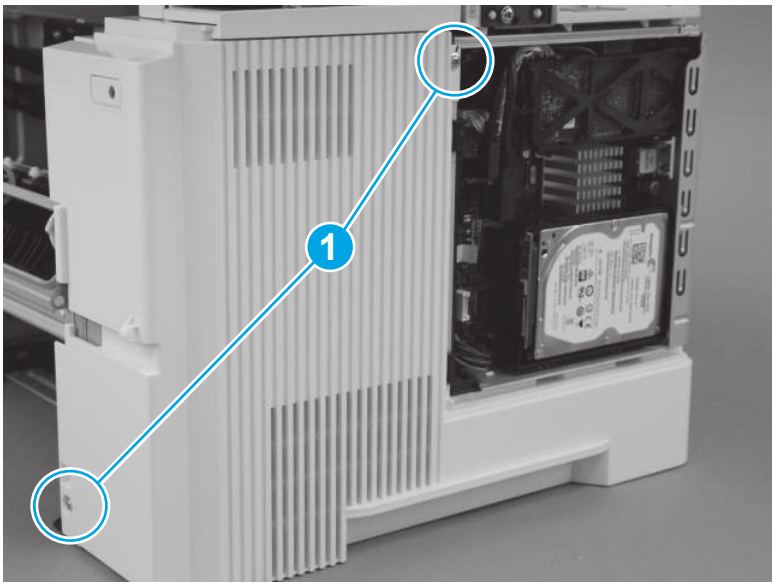
a. Before proceeding, take note of the location of the tabs and bosses on the inside of the cover.

Figure 1-933 Locate the tabs and bosses



b. Remove two screws (callout 1).

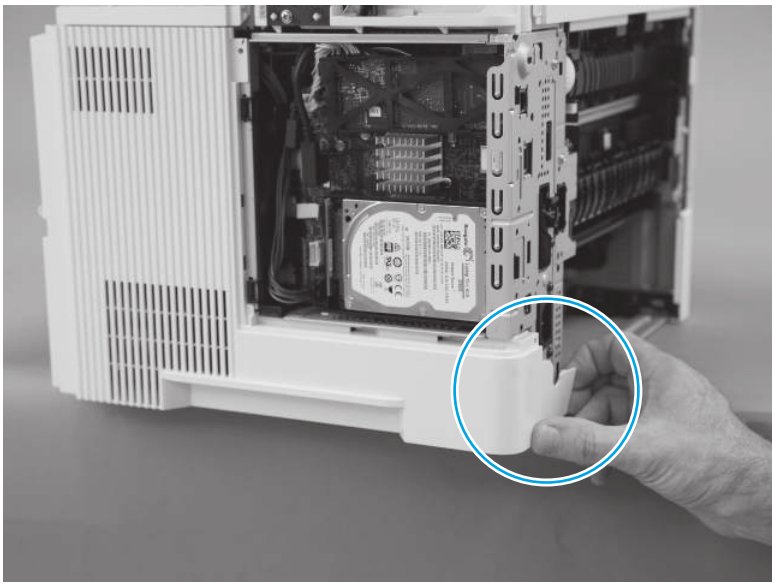
Figure 1-934 Remove two screws



c. At the rear of the printer, release one boss.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

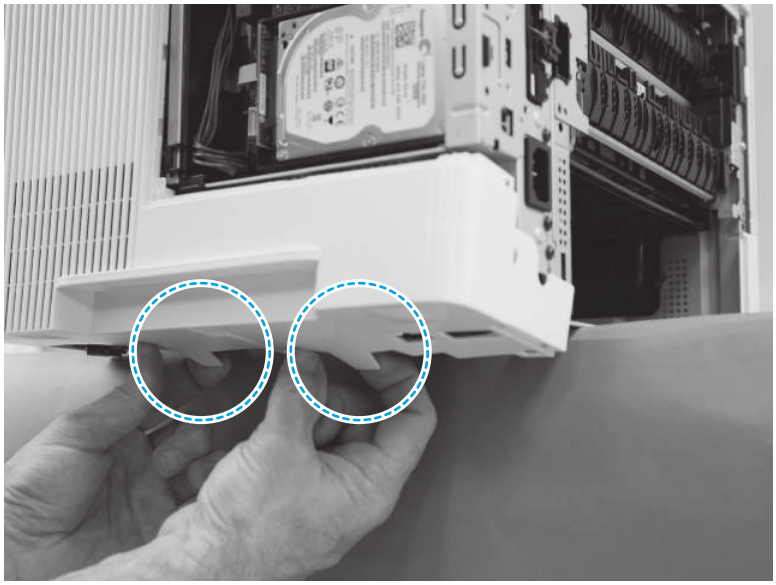
Figure 1-935 Release one boss



d. At the bottom edge of the cover, release two bosses.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

Figure 1-936 Release two bosses

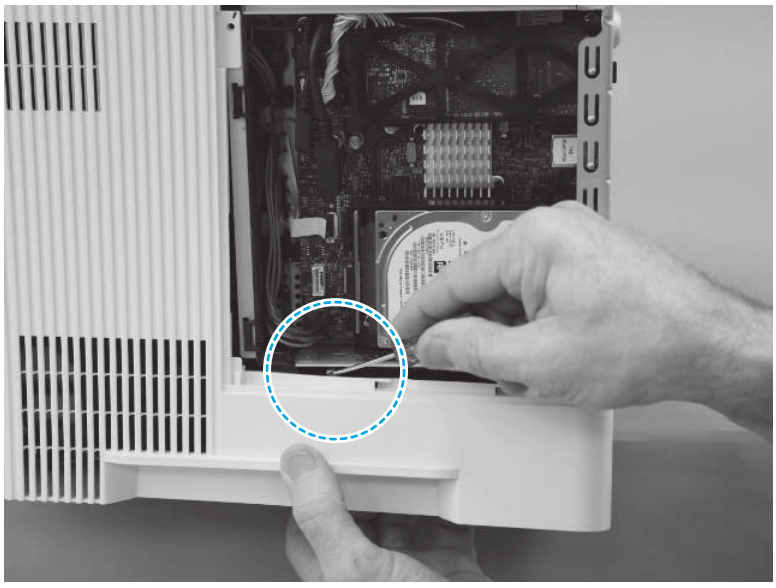


e. Near the formatter, release one tab.

CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

TIP: Hold the bottom of the cover away from the printer, and then use a small flat-blade screw driver to easily release this tab.

Figure 1-937 Release one tab

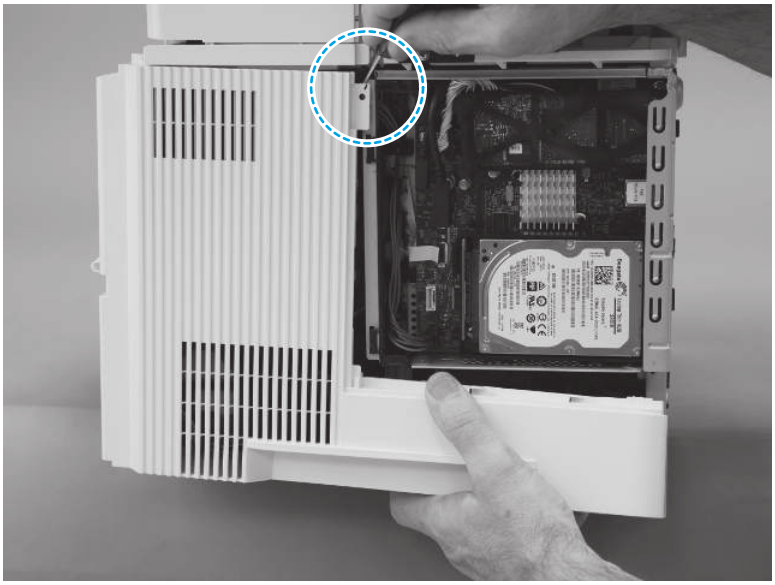


f. At the top rear edge of the cover, release one tab.

CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

TIP: Use a small flat-blade screw driver to easily release this tab.

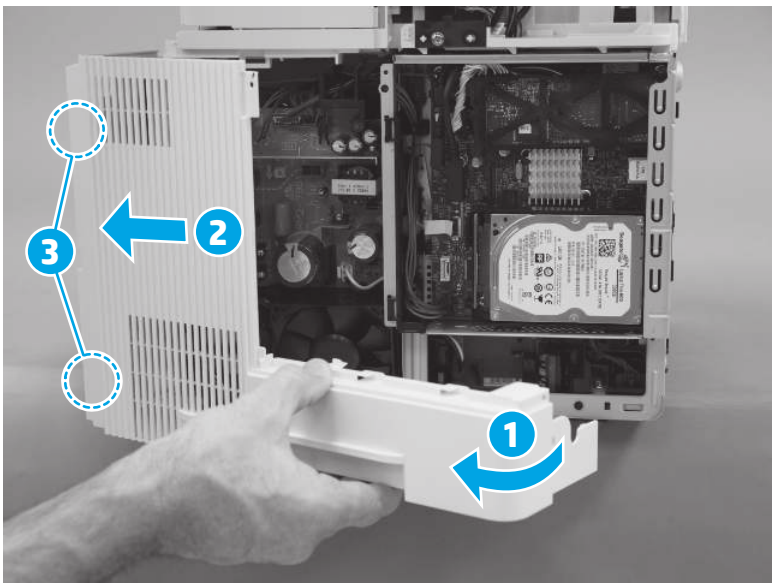
Figure 1-938 Release one tab



g. Rotate the rear of the cover away from the printer (callout 1), slide the cover toward the front of the printer (callout 2) to release two bosses (callout 3), and then remove the cover.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

Figure 1-939 Remove the cover



14. Remove the left cover.

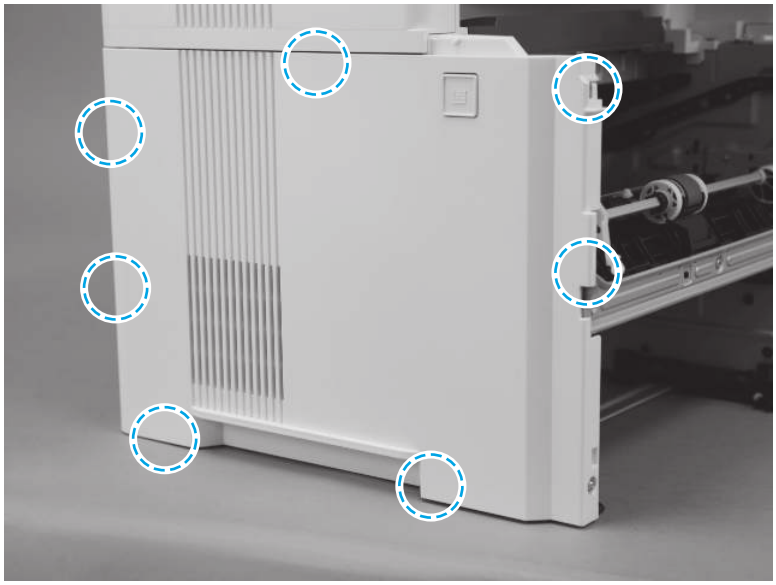
IMPORTANT: The black-plastic cassette front and rear guides (located inside the tray cavity) can be easily dislodged. Do not lose the guides when the cover is removed or installed.

NOTE: An MFP printer is shown in this section. However, the procedure is correct for all printer models.

a. Before proceeding, take note of the location of the tabs and bosses on the inside of the cover.

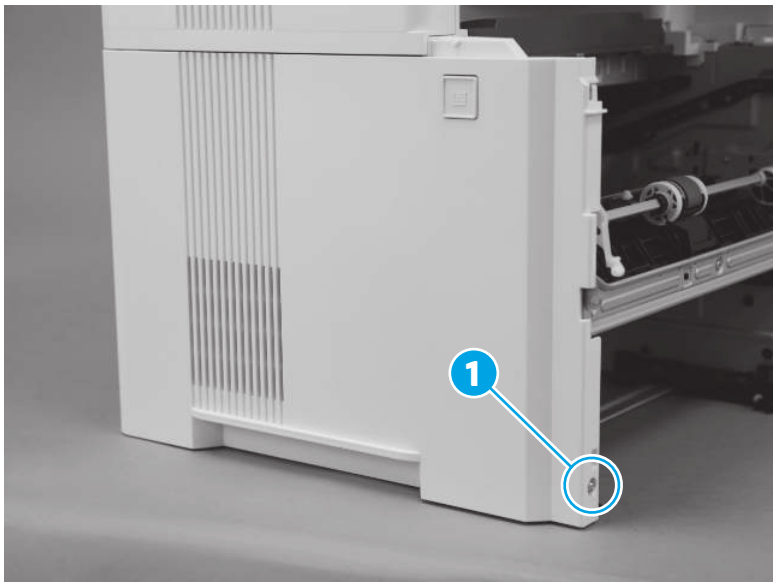
Reinstallation tip: When reinstalling the cover, take note of the location of the tabs and bosses on the inside of the cover.

Figure 1-940 Locate of the tabs and bosses



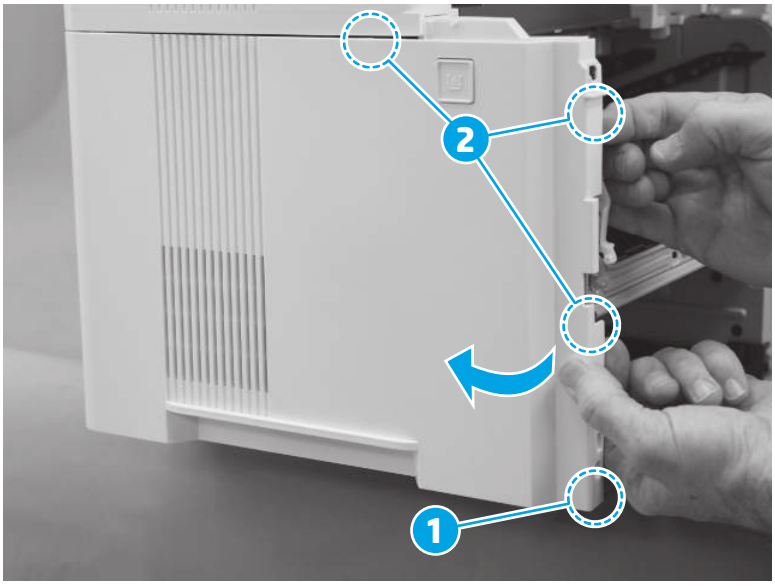
b. Remove one screw (callout 1).

Figure 1-941 Remove one screw



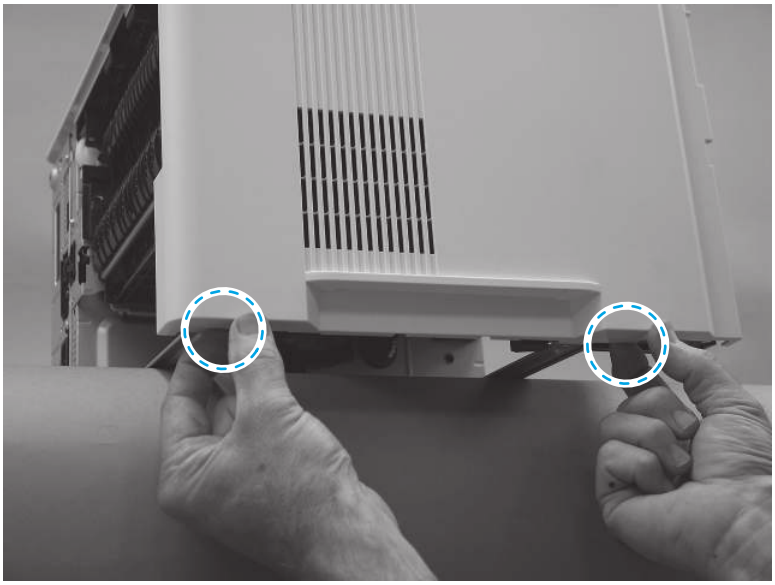
c. At the front of the printer, release one boss (callout 1), and then rotate the front edge of the cover away from the printer to release three tabs (callout 2).

Figure 1-942 Release one boss and three tabs



d. At the bottom edge of the cover, release two tabs.

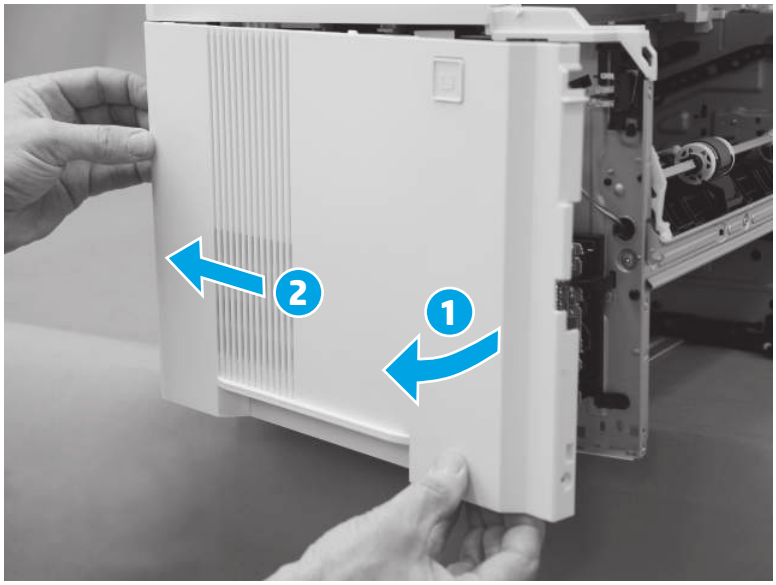
Figure 1-943 Release two tabs



e. Continue to rotate the front edge of the cover away from the printer (callout 1), and then slide the cover toward the rear of the printer (callout 2) to remove it.

NOTE: If the cover is difficult to rotate or slide as shown below, make sure that the bottom tabs (released in the previous step) are completely disengaged from the chassis.

Figure 1-944 Remove the cover



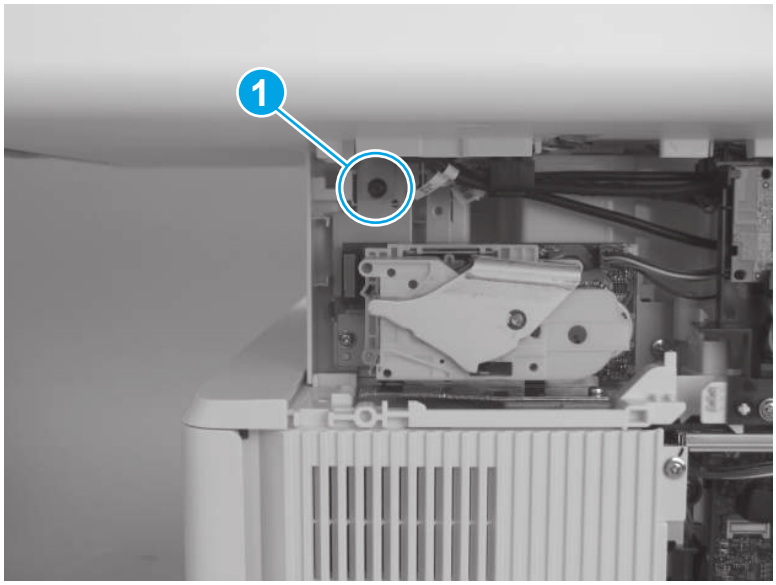
15. Remove the integrated-scanner assembly (ISA) (M527/E52545/M528/E52645).

NOTE: The ISA includes the document feeder, sub-scanner assembly (SSA), and the scanner control board (SCB).

a. Remove one screw (callout 1).

IMPORTANT: This screw fastens the ISA ground plate to the printer chassis. Do not lose this screw.

Figure 1-945 Remove one screw

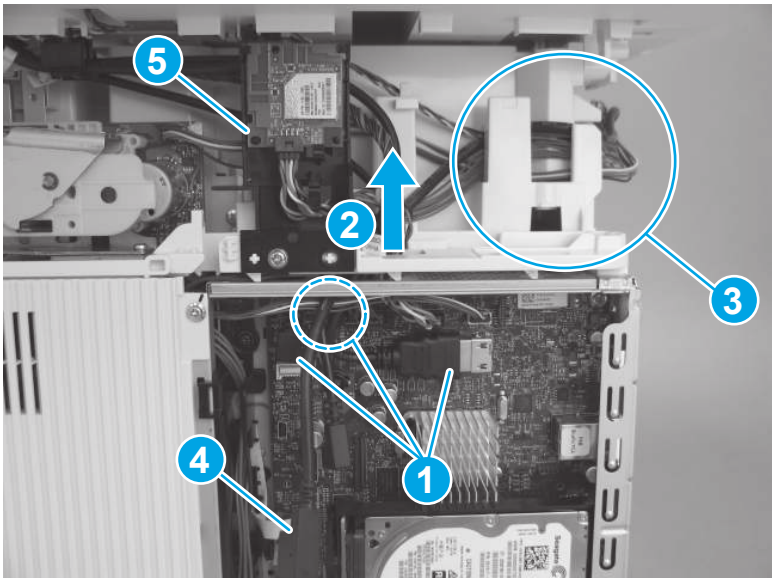


b. Disconnect three connectors (callout 1), pass the wire harnesses and cables through the opening in the cover (callout 2), and then release them from the retainers (callout 3).

NOTE: One cable (callout 4) does not need to pass through the opening in the cover.

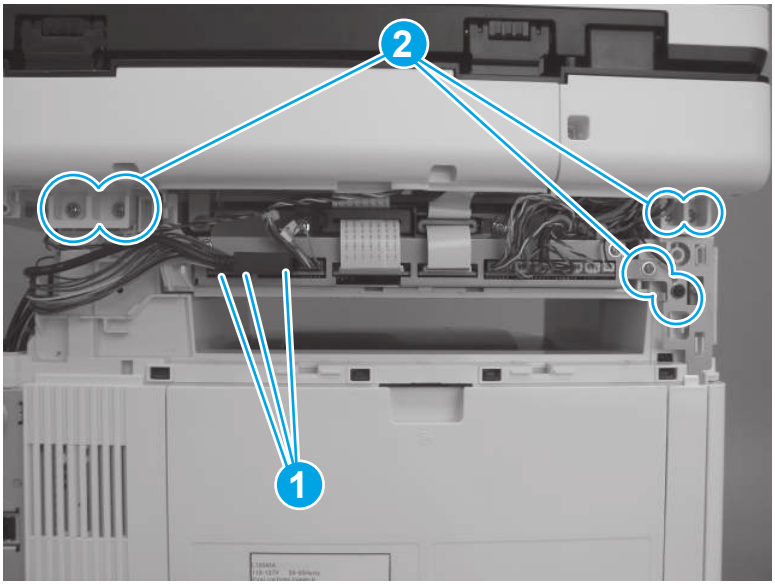
TIP: It might be easier if the WiFi PCA and holder (not all models; callout 5) is detached from the printer, and then moved out of the way.

Figure 1-946 Disconnect cables and connectors



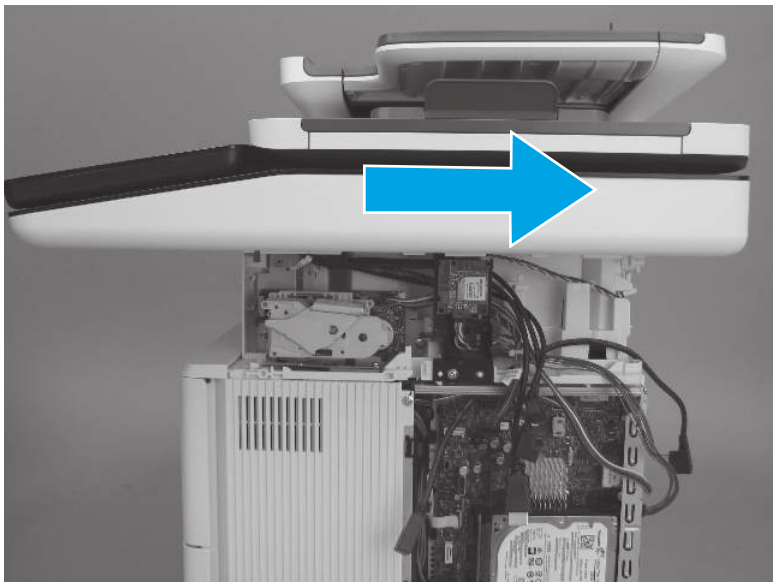
c. Disconnect three connectors (callout 1), and then remove six screws (callout 2).

Figure 1-947 Disconnect connectors and remove screws



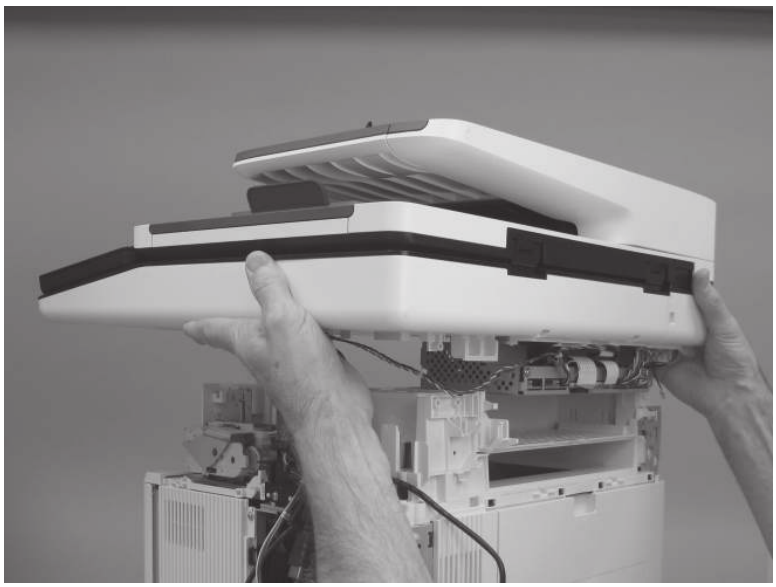
d. Slightly slide the ISA towards the back of the printer to release it.

Figure 1-948 Slide the ISA towards the back of the printer



e. Remove the ISA.

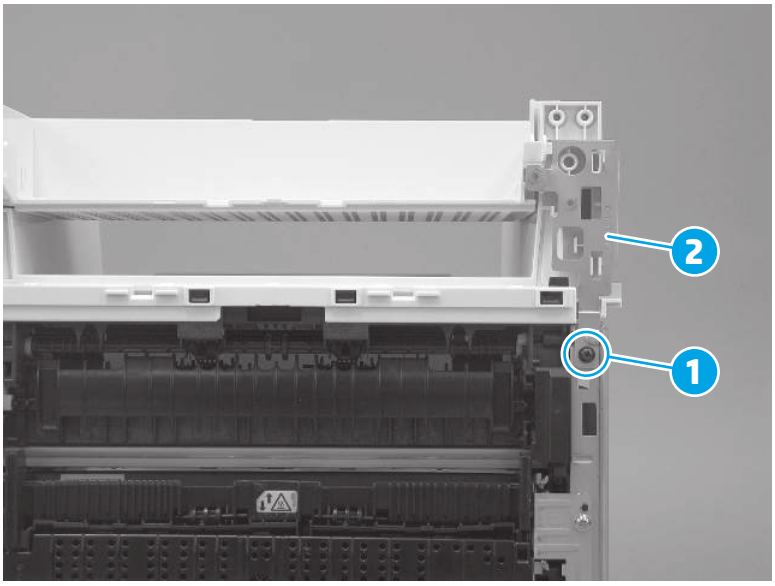
Figure 1-949 Remove the ISA



16. Remove the top cover (M527/E52545/M528/E52645).

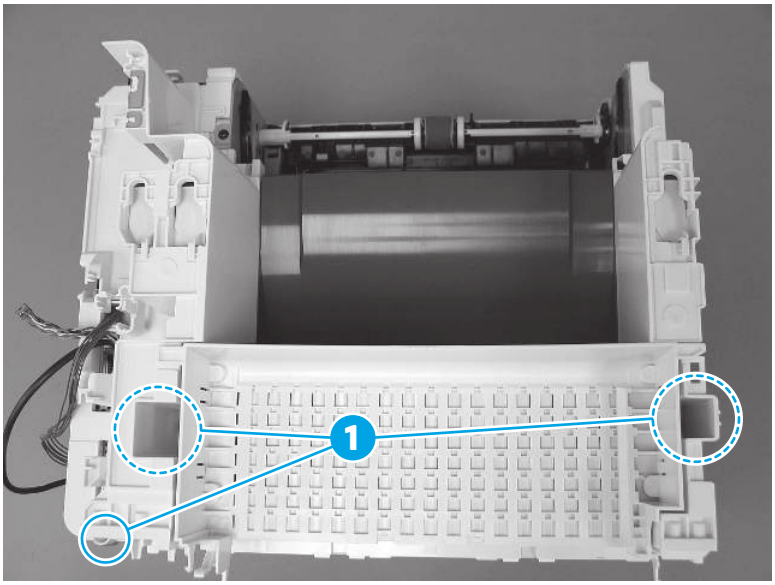
a. At the front right of the printer, remove one screw (callout 1), and then remove the sheet-metal plate (callout 2).

Figure 1-950 Remove one screw and the plate



b. At the top rear of the printer, remove three screws (callout 1).

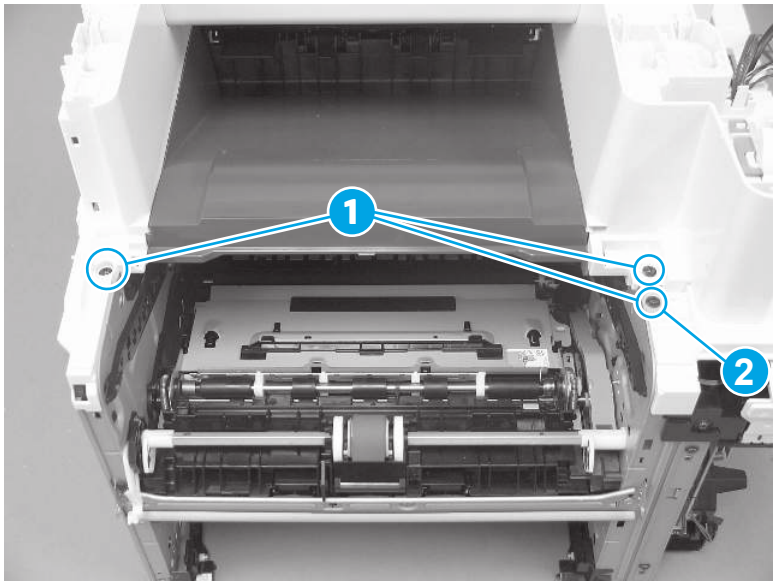
Figure 1-951 Remove three screws



c. At the top front of the printer, remove three screws (callout 1).

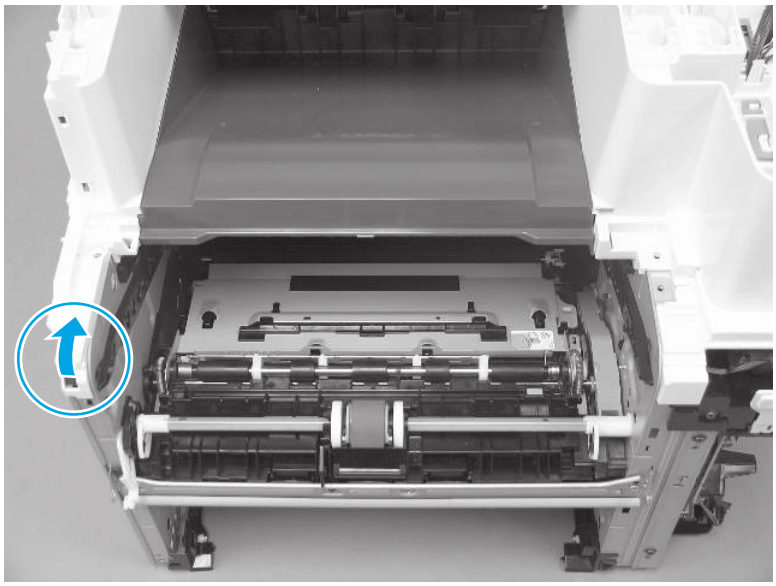
NOTE: The screw (callout 2) on the lower-right portion of the cover is a different color than the other two screws, and is surrounded by sheet-metal. It might appear that this screw does not need to be removed. Remove this screw.

Figure 1-952 Remove three screws



d. At the front left of the printer, release one boss.

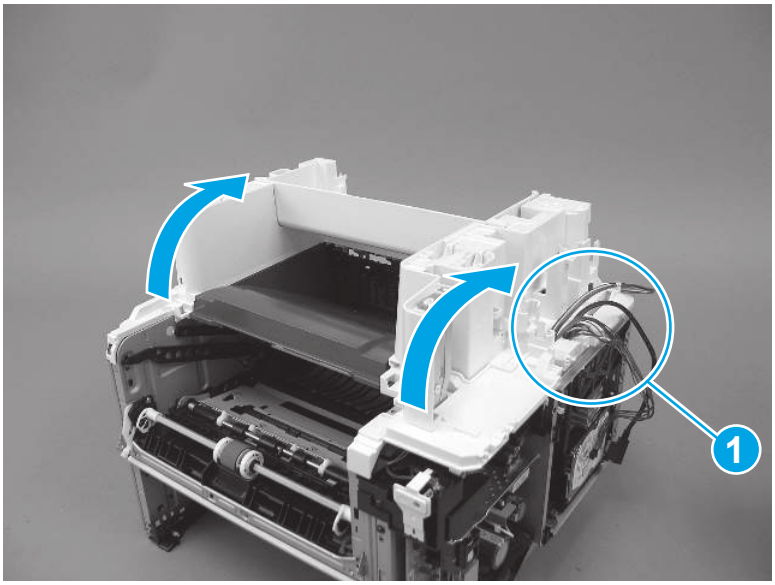
Figure 1-953 Release one boss



e. Rotate the front of the cover up and away from the printer.

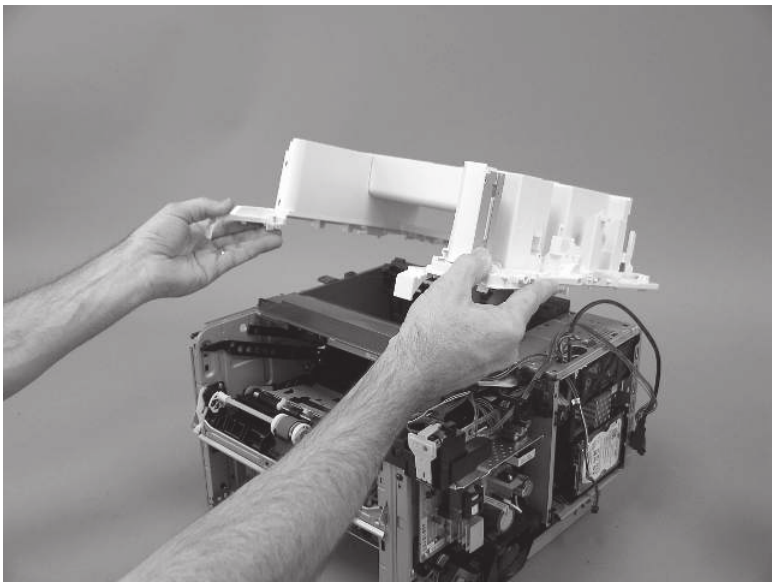
⚠ CAUTION: As the cover is rotated up, carefully pass the cables and wire harnesses the hole in the cover (callout 1).

Figure 1-954 Rotate the front of the cover up



f. Remove the cover.

Figure 1-955 Remove the cover

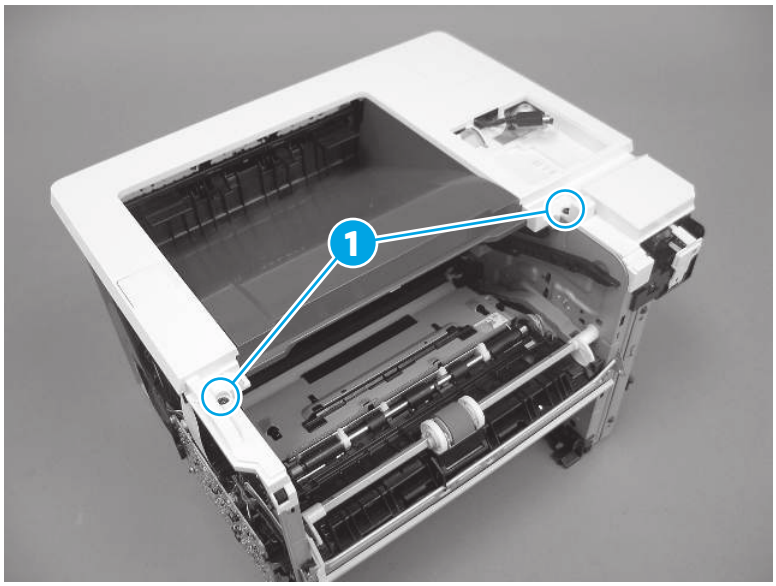


17. Remove the top cover (M501/M506/E50045/M507/E50145).

    The M506x/E50045x is shown in this procedure. However, the steps are correct for all M506/E50045/M507/E50145 models and the M501 printer.

a. Remove two screws (callout 1).

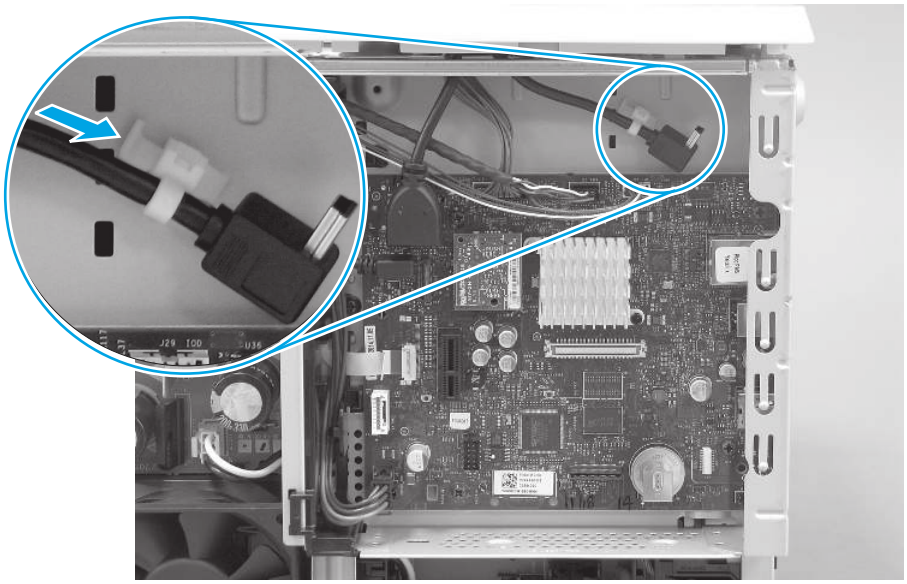
Figure 1-956 Remove two screws



b. **M506/E50045/ only**: Release one cable retainer from the chassis.

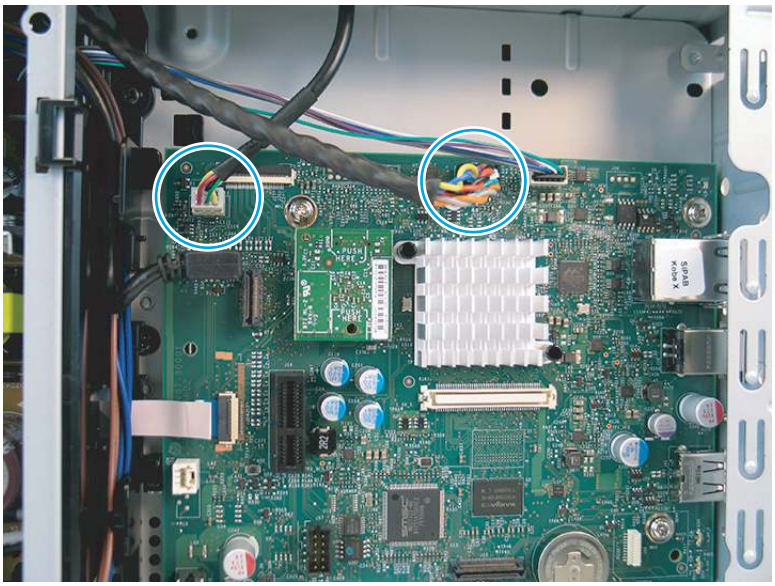
TIP: Depress the tab on the retainer to release it.

Figure 1-957 Release one cable retainer



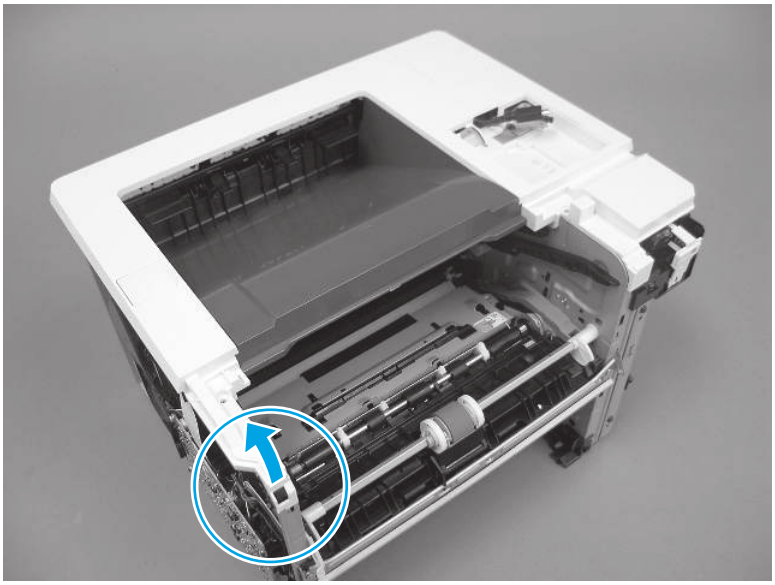
c. **M507/E50145 only**: Disconnect two connectors.

Figure 1-958 Disconnect two connectors



d. Release one boss.

Figure 1-959 Release one boss

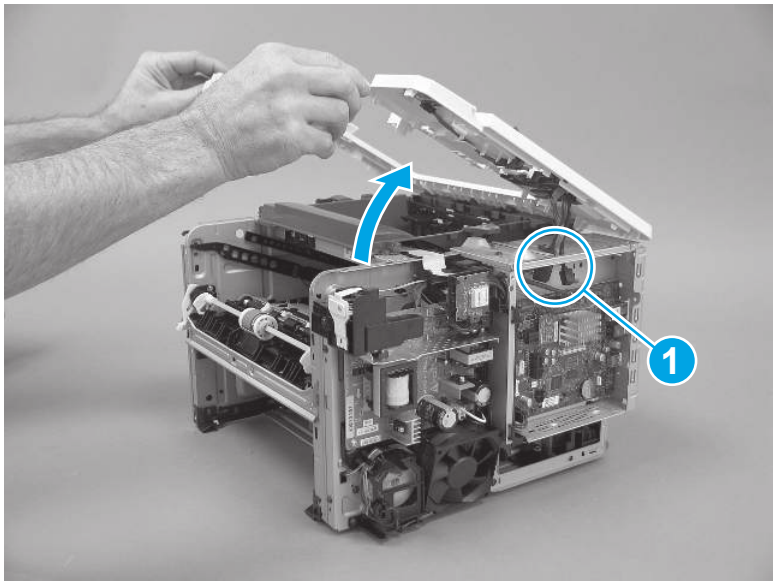


e. **M506/E50045/ only**: Rotate the front of the cover up and away from the printer, and then remove the cover.

⚠ CAUTION: **M506x/E50045x only**: As the cover is rotated up, carefully pass the cables the hole in the chassis (callout 1).

NOTE: **LCD control panel models only**: Disconnect the control panel before removing the cover.

Figure 1-960 Remove the cover (M506/E50045)



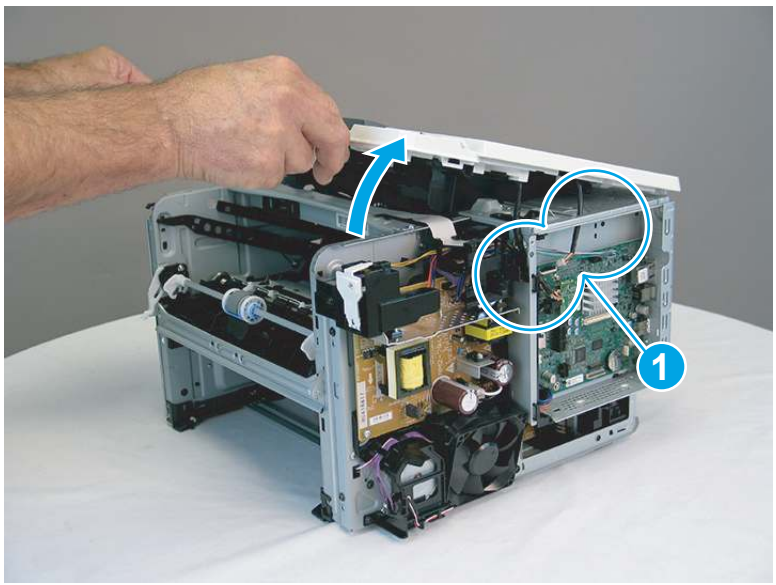
f. M507/E50145only: Rotate the front of the cover up and away from the printer, and then remove the cover.

CAUTION: M507x/E50145x only: As the cover is rotated up, carefully pass the cables the hole in the chassis (callout 1).

IMPORTANT: If the top cover is being replaced, make sure to transfer the WiFi PCA from the discarded cover to the replacement cover.

NOTE: LCD control panel models only: Disconnect the control panel before removing the cover.

Figure 1-961 Remove the cover (M507/E50145)

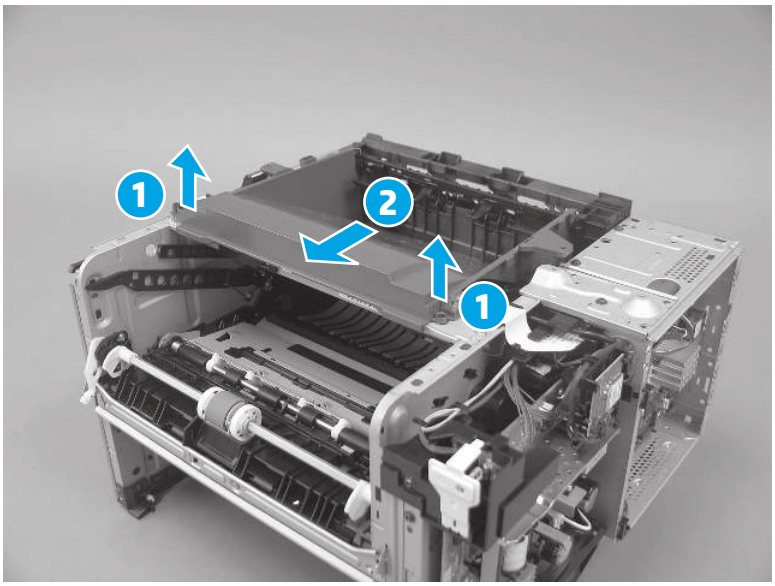


18. Remove the paper delivery tray (output bin).

NOTE: A SFP printer is shown in this section. However, the procedure is correct for all printer models.

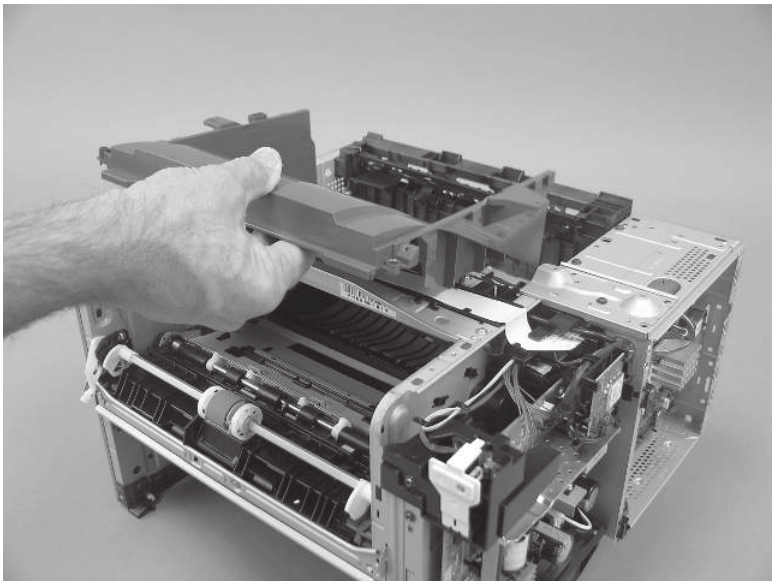
a. Release two tabs (callout 1), and then slide the cover toward the front of the printer (callout 2).

Figure 1-962 Release two tabs



b. Remove the bin.

Figure 1-963 Remove he bin

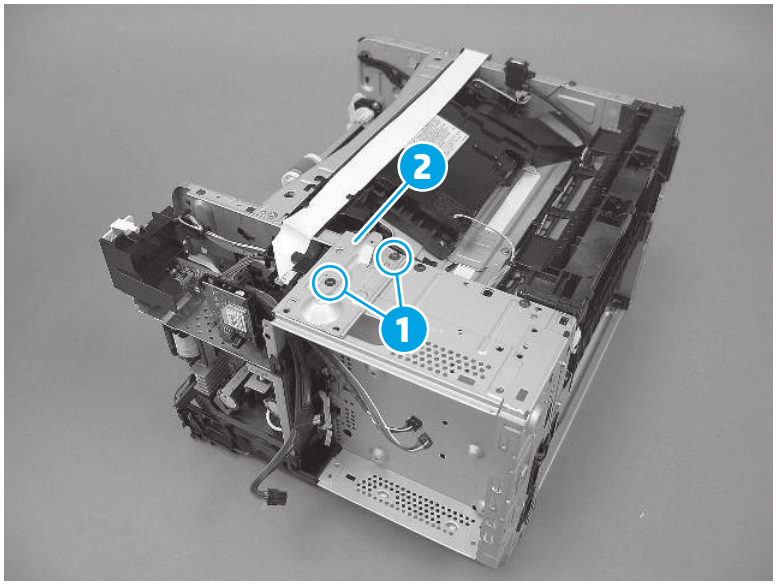


19. Remove the formatter case.

a. **M506/E50045/M507/E50145 only**: Remove two screws (callout 1), and then remove the sheet-metal plate (callout 2).

NOTE: **M507/E50145 only**: The M507/E50145 sheet-metal plate includes a separate black plastic cable guide (not shown). Do not lose the guide when removing the plate.

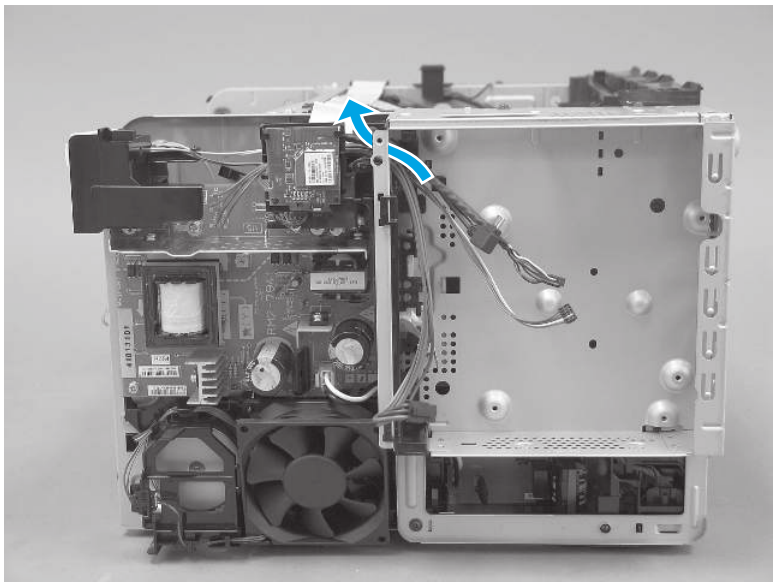
Figure 1-964 Remove the sheet-metal plate



b. Carefully pass all cables and wire harnesses through the opening in the formatter case.

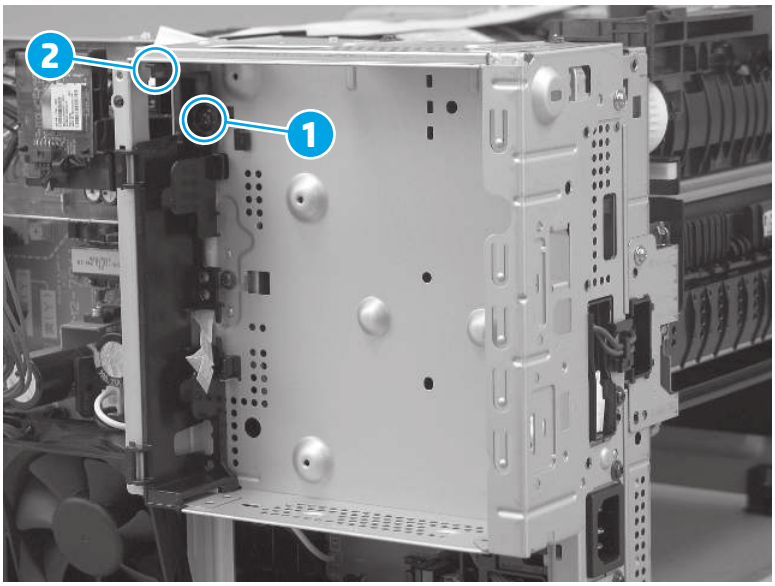
NOTE: A SFP printer is shown in this section. However, the procedure is correct for all printer models.

Figure 1-965 Pass all cables and wire harnesses through the opening



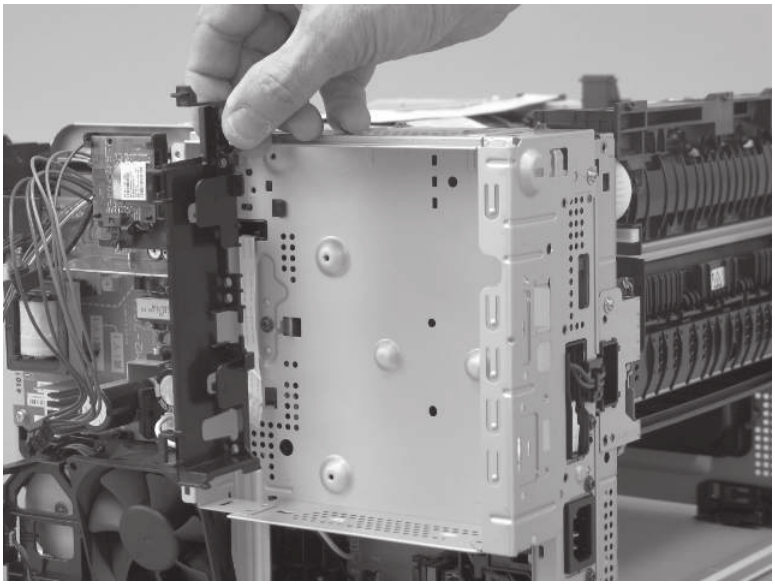
c. Remove one screw (callout 1), and then push down on one tab (callout 2) to release it.

Figure 1-966 Remove one screw



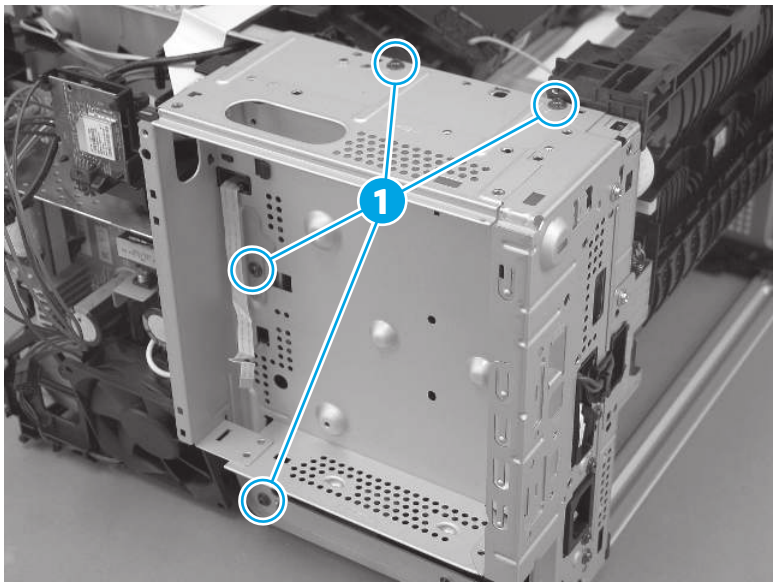
d. Remove the guide.

Figure 1-967 Remove the guide



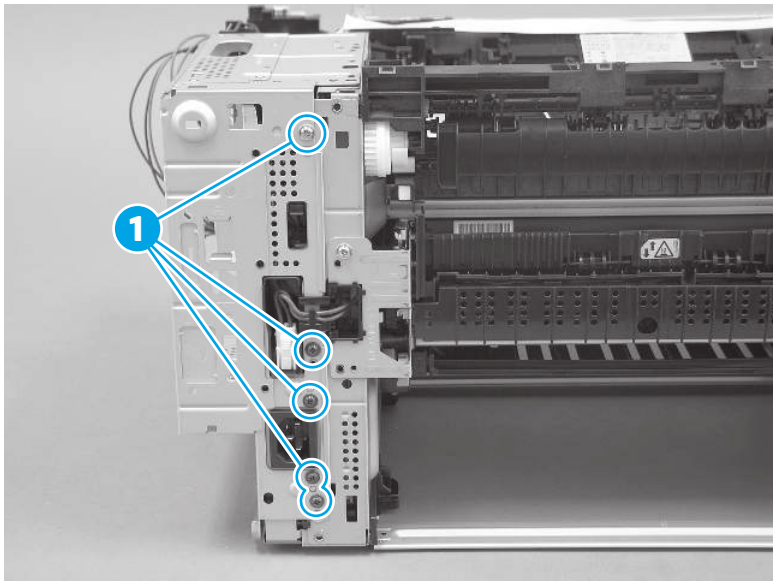
e. Remove four screws (callout 1).

Figure 1-968 Remove four screws



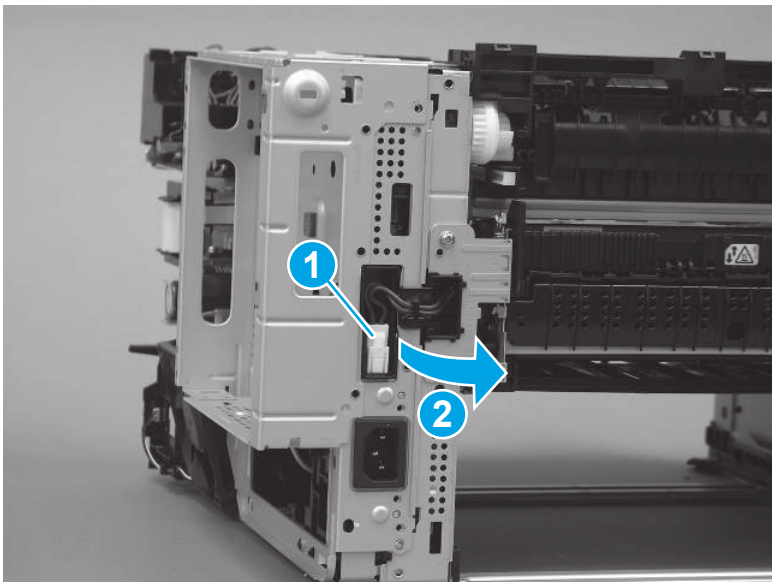
f. Remove five screws (callout 1).

Figure 1-969 Remove five screws



g. Disconnect one connector (callout 1), and then move the guide out of the way (callout 2).

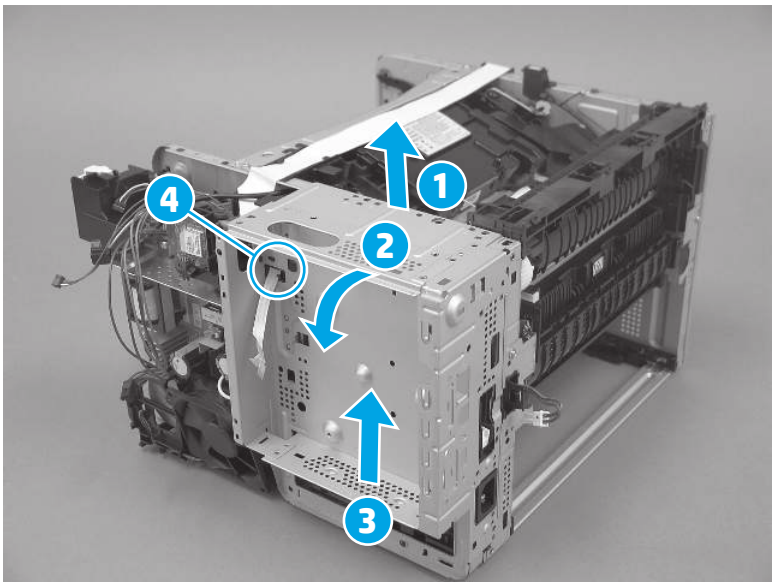
Figure 1-970 Disconnect one connector



h. Slightly lift up the formatter case (callout 1), rotate the top of the case away from the chassis (callout 2), and then lift up the case to release it (callout 3).

⚠ CAUTION: Pass the FFC through the opening (callout 4) in the formatter while removing the case.

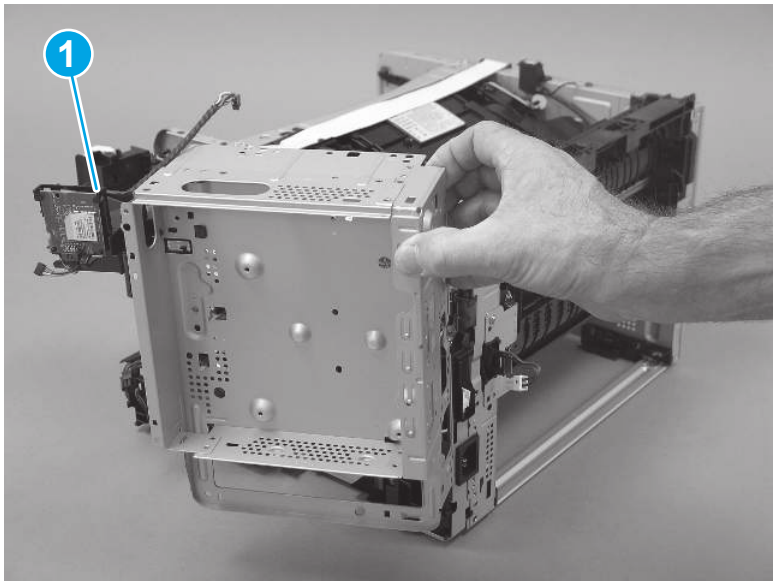
Figure 1-971 Release the formatter case



i. Remove the formatter case.

NOTE: **WiFi models only**: If the formatter case is being replaced, make sure that the WiFi PCA and bracket (callout 1) are transferred to the replacement case.

Figure 1-972 Remove the formatter case



20. Remove the DC controller (DCC).

⚠ CAUTION: Never remove and then install a replacement DCC and formatter at the same time. Doing so will cause the printer to become unstable.

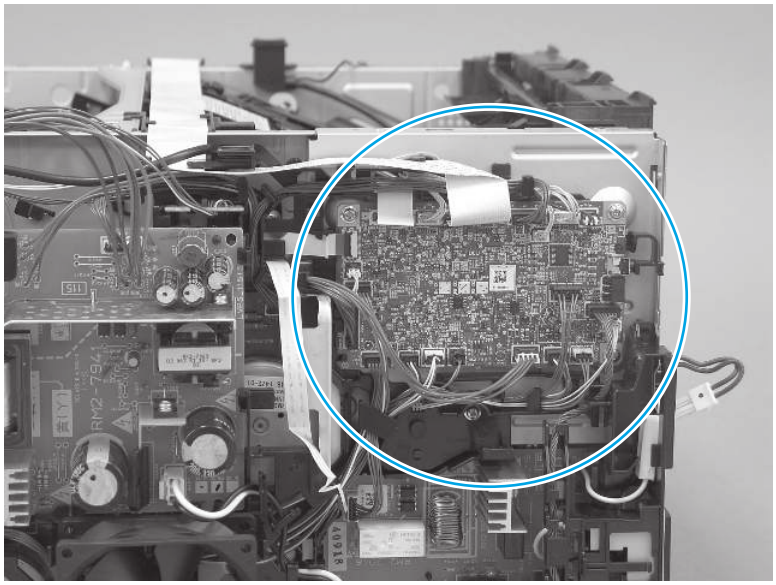
If a replacement DCC and formatter must be installed, first remove and install the formatter. Test operate the printer, and then if necessary install a replacement DCC.

a. Disconnect all of the connectors and flat-flexible cables (FFCs) on the DC controller (DCC).

NOTE: The number and type of connectors and FFCs depends on the printer model.

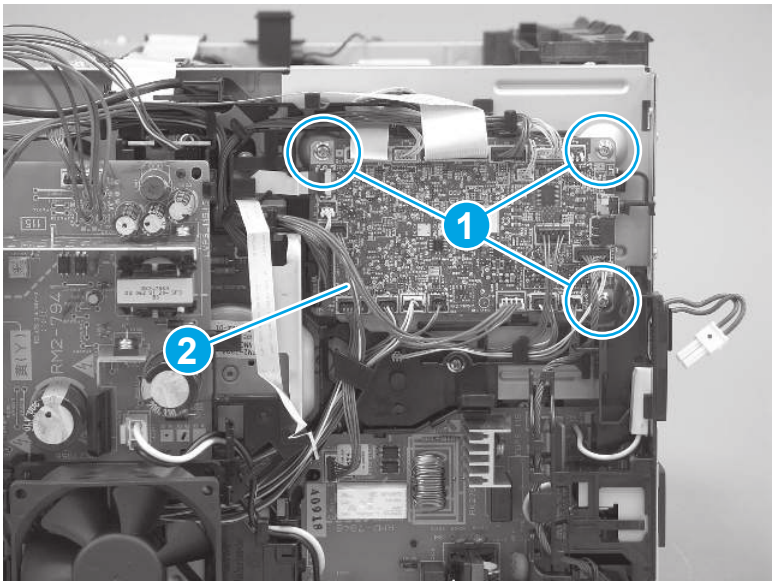
A SFP printer is shown in this section. However, the procedure is correct for all printer models.

Figure 1-973 Disconnect all connectors and FFCs



b. Remove three screws (callout 1), and then remove the DCC (callout 2).

Figure 1-974 Remove the DCC



21. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Removal and replacement: High-voltage power supply

Learn how to remove and replace the high-voltage power supply (HVPS).

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the HVPS.

Mean time to repair: 12 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

> ⚠ **WARNING!** To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-41 Part information

Part number	Part description
RM2-7945-000CN	High-voltage power supply (HVPS)

Required tools

- Small flat-blade screwdriver
- #2 Phillips screwdriver with a magnetic tip and a 152 mm (6 in) shaft length

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

Make sure that the printer initializes to a **Ready** state.

1. Remove the tray.

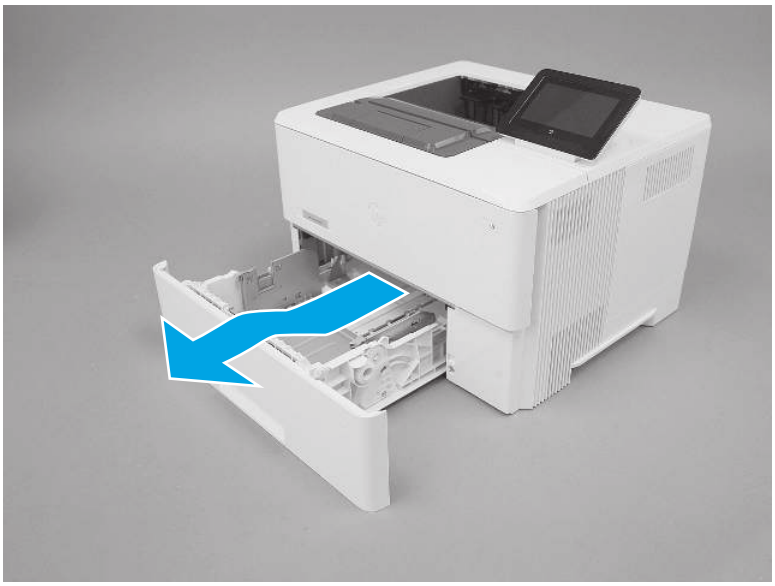
a. Pull the tray straight out of the printer until it stops.

Figure 1-975 Pull the tray out until it stops

b. Lift the front of the tray, and then pull it out of the printer to remove it.

NOTE: If the tray has Fixed Tray Guides installed and are still required, move the hardware to new tray. If necessary, order new kit: 3GY19-67901 Kit-Fixed Tray Guide. Only one kit required per engine.

Figure 1-976 Release and remove the tray



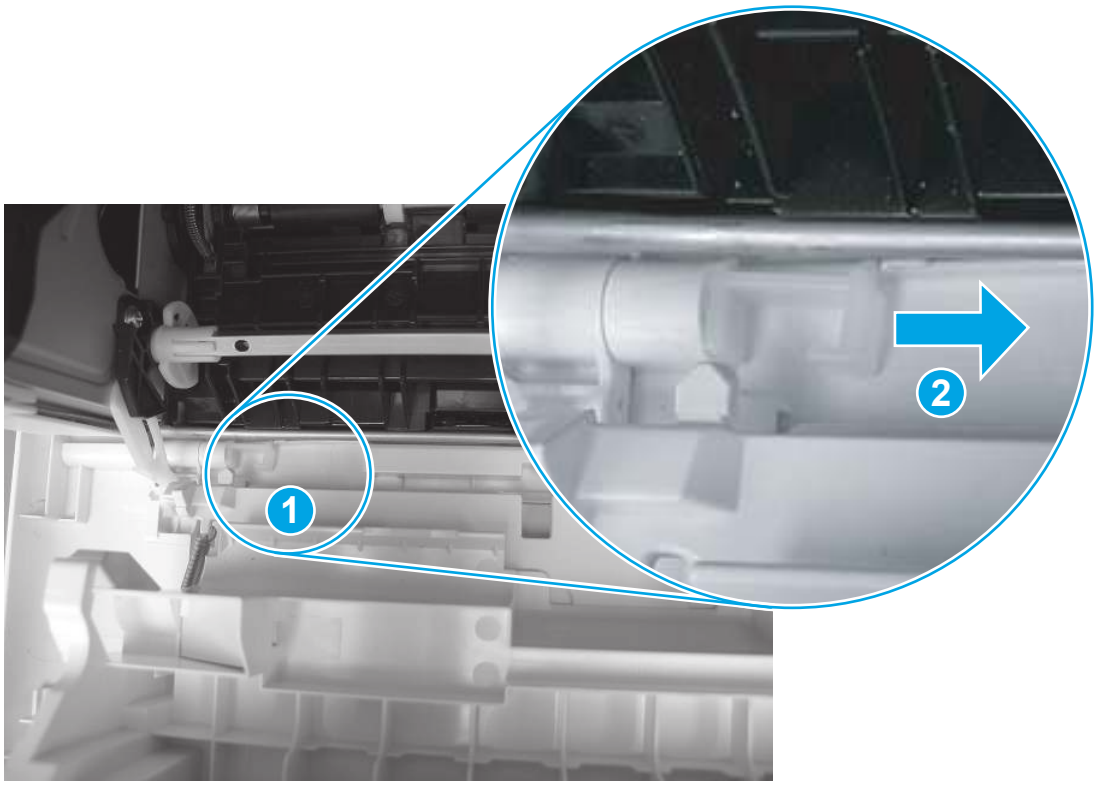
2. Remove the cartridge door assembly.

NOTE: If the toner cartridge was not removed prior to servicing the printer, remove it now.

a. Release the support shaft (callout 1), and then slide it toward the center of the door (callout 2).

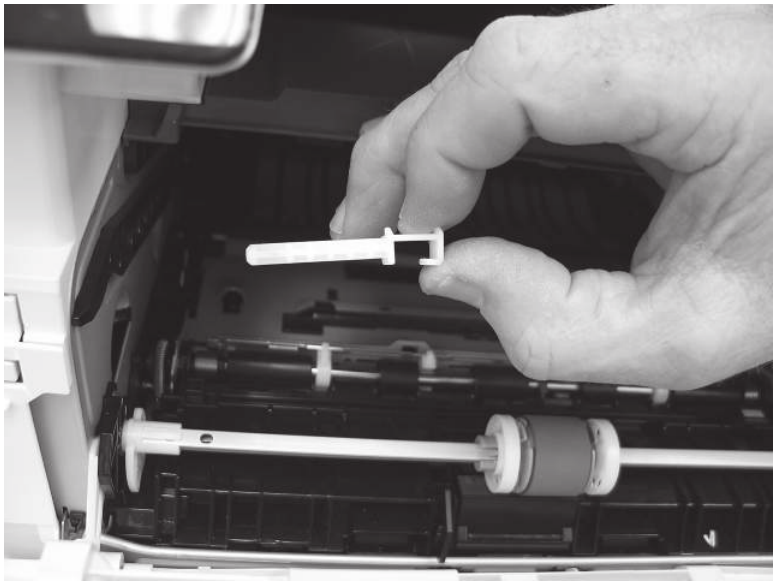
TIP: It might be easier to release the support shaft by using a small flat-blade screwdriver.

Figure 1-977 Release the support shaft



b. Remove the support shaft.

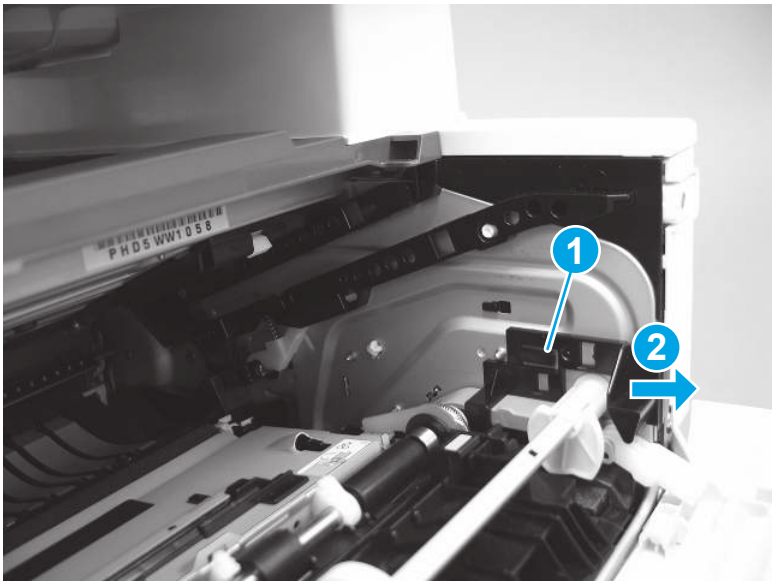
Figure 1-978 Remove the support shaft



c. Release one tab (callout 1), and then slide the guide out of the printer (callout 2).

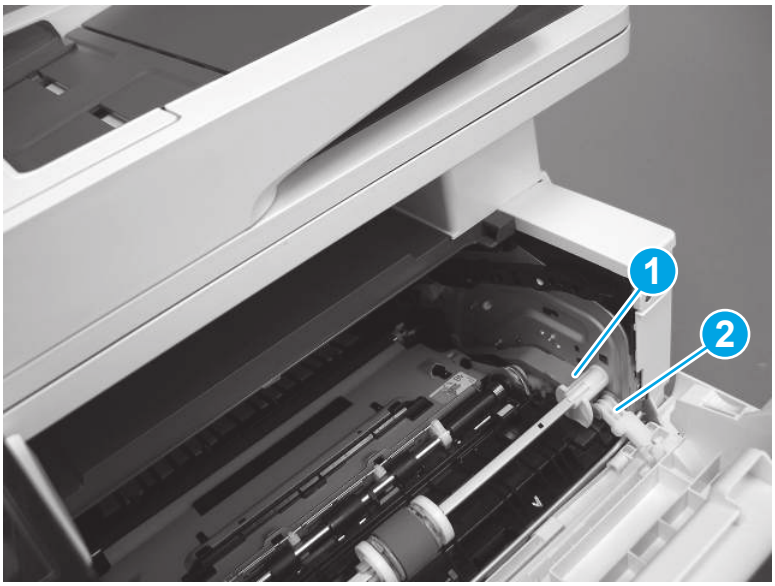
⚠ CAUTION: Be careful, the tab (callout 1) can be easily broken.

Figure 1-979 Remove the guide



d. Use a small flat-blade screwdriver to gently pry the white-plastic door arm (callout 1) off of the gray-plastic pressure-release link (callout 2) to release the door arm.

Figure 1-980 Release the pressure-release link



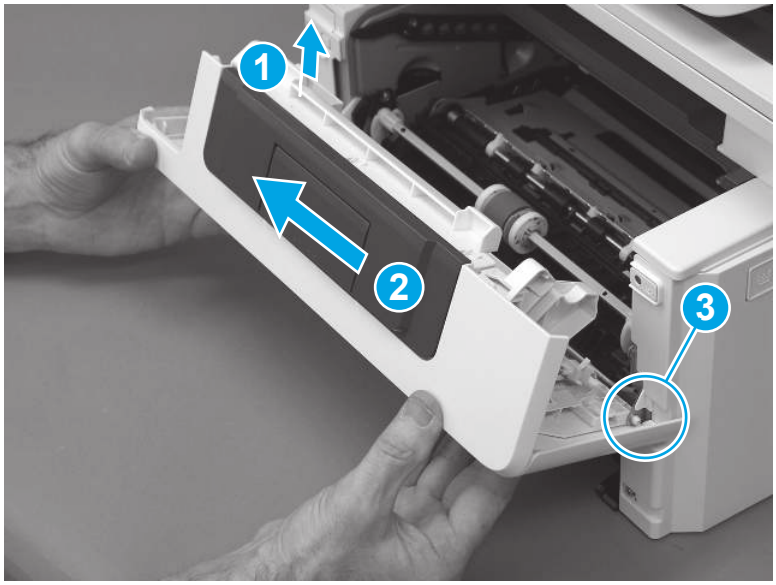
e. With the door in the partially closed position, slightly raise the left end (callout 1; raise it over the sheet-metal hinge boss), and then slide the door to the left (callout 2) to release the right hinge (callout 3).

⚠ CAUTION: The door is still attached to the printer by the left-side retainer arm. Do not attempt to completely remove the door.

Reinstallation tip: When reinstalling the door, there are two right-side hinge pins (not shown in callout 3).

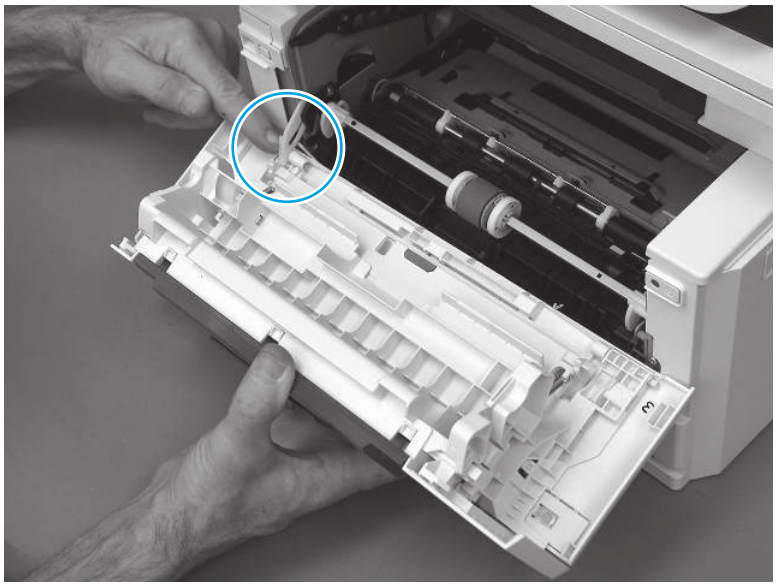
Keep a finger pressed on the left-side retainer arm so that it does not disengage from the door.

Figure 1-981 Release the door



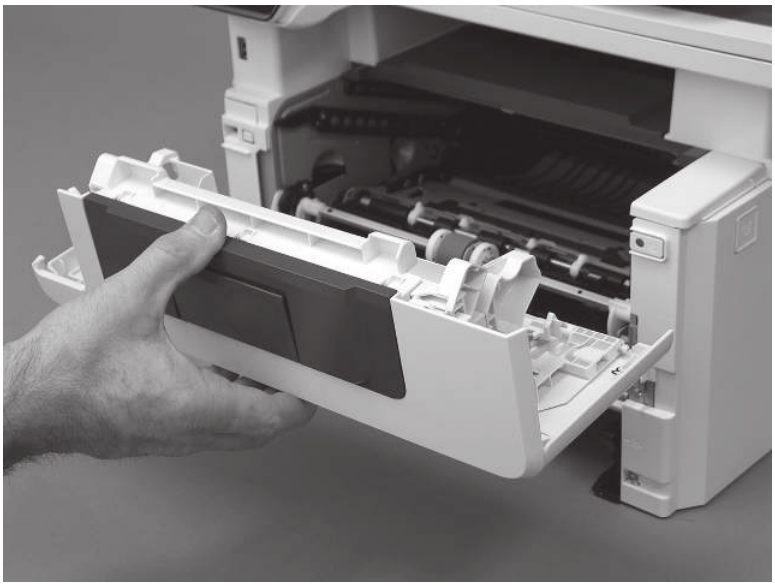
f. Rotate the door away from the printer until the keyed pin on the left-side retainer arm can disengage from the door.

Figure 1-982 Release the left-side retainer arm



g. Remove the door.

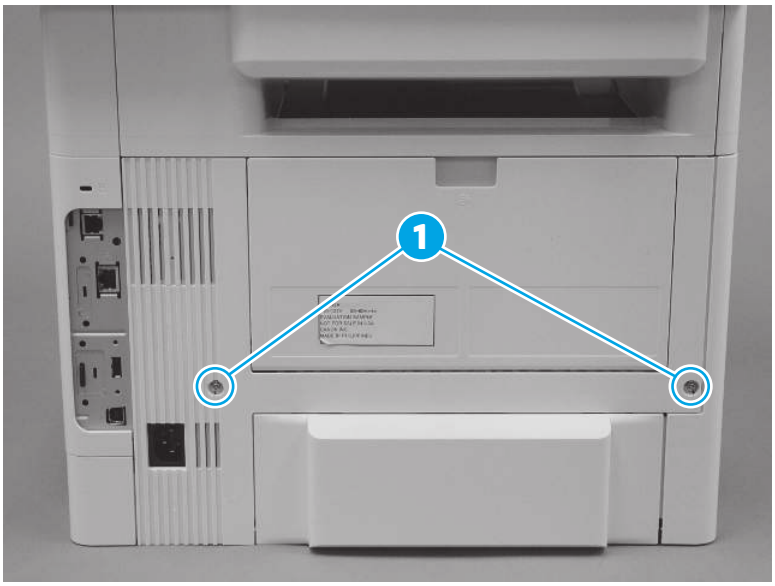
Figure 1-983 Remove the door



3. Remove the rear door assembly.

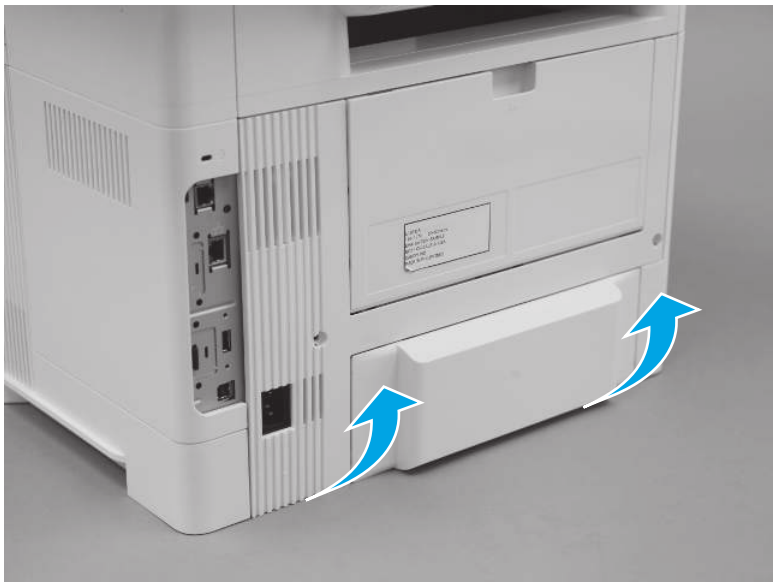
a. At the rear of the printer, remove two screws (callout 1).

Figure 1-984 Remove two screws



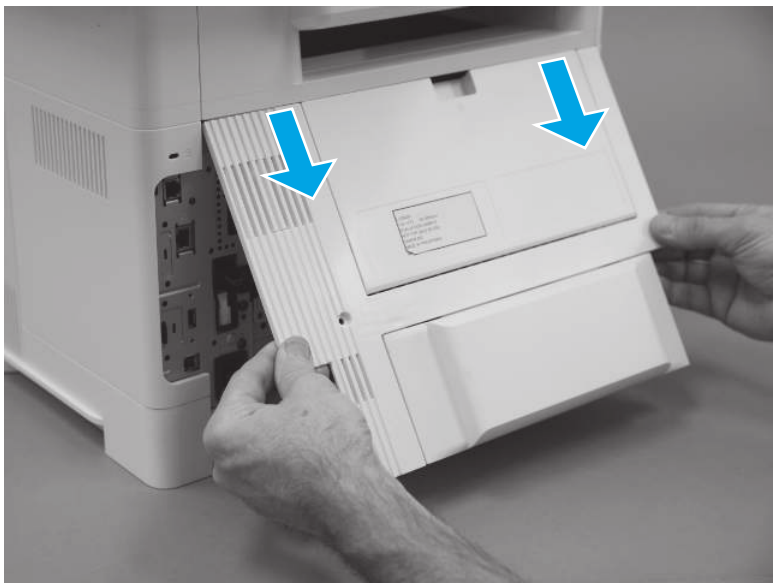
b. Rotate the bottom edge of the assembly away from the printer to release it.

Figure 1-985 Rotate the bottom of the cover



c. Pull down on the assembly to remove it.

Figure 1-986 Remove the cover



4. Remove the left cover.

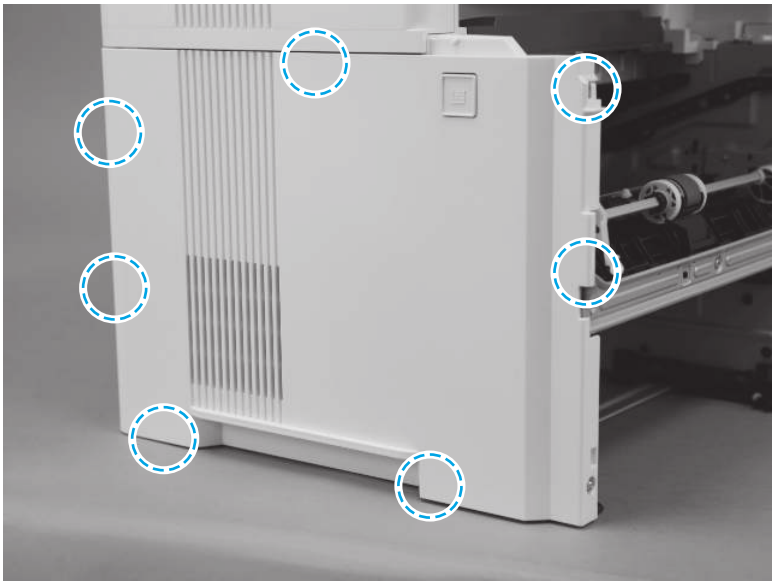
IMPORTANT: The black-plastic cassette front and rear guides (located inside the tray cavity) can be easily dislodged. Do not lose the guides when the cover is removed or installed.

NOTE: An MFP printer is shown in this section. However, the procedure is correct for all printer models.

a. Before proceeding, take note of the location of the tabs and bosses on the inside of the cover.

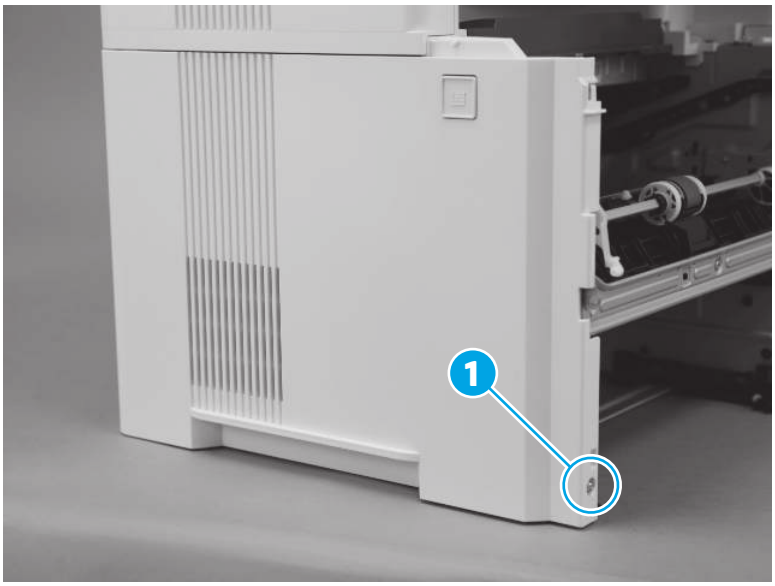
Reinstallation tip: When reinstalling the cover, take note of the location of the tabs and bosses on the inside of the cover.

Figure 1-987 Locate of the tabs and bosses



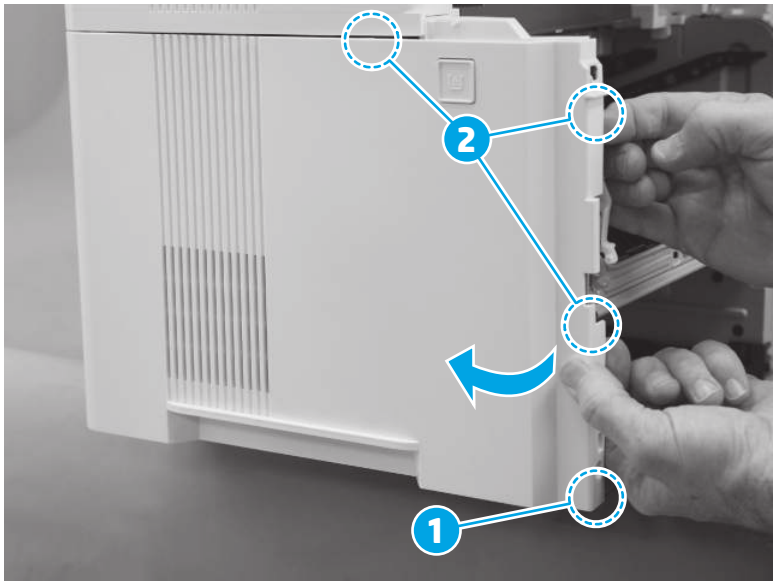
b. Remove one screw (callout 1).

Figure 1-988 Remove one screw



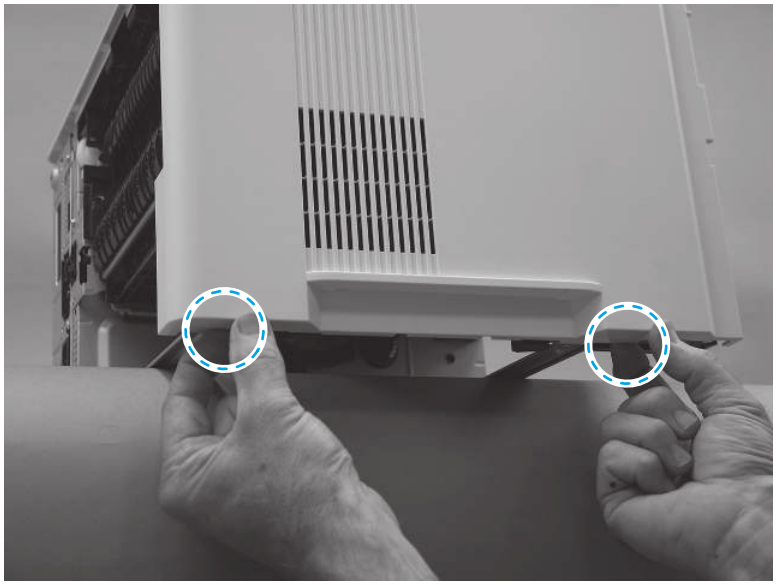
c. At the front of the printer, release one boss (callout 1), and then rotate the front edge of the cover away from the printer to release three tabs (callout 2).

Figure 1-989 Release one boss and three tabs



d. At the bottom edge of the cover, release two tabs.

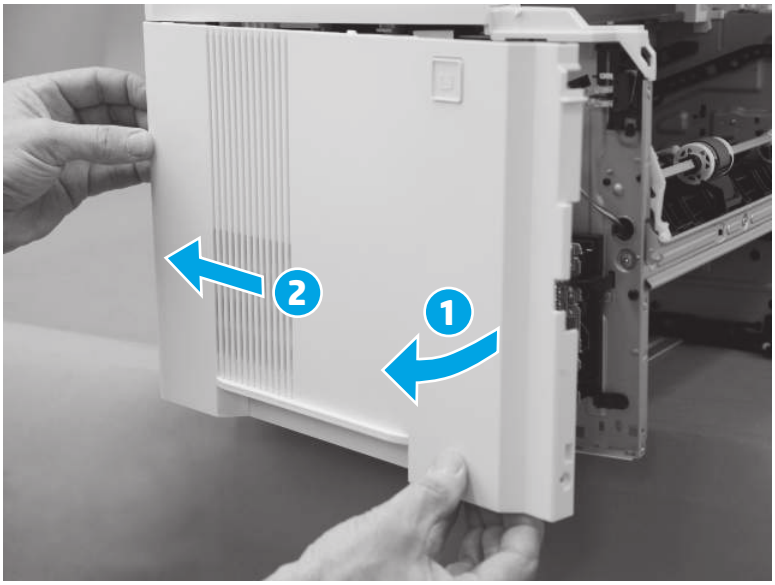
Figure 1-990 Release two tabs



e. Continue to rotate the front edge of the cover away from the printer (callout 1), and then slide the cover toward the rear of the printer (callout 2) to remove it.

NOTE: If the cover is difficult to rotate or slide as shown below, make sure that the bottom tabs (released in the previous step) are completely disengaged from the chassis.

Figure 1-991 Remove the cover



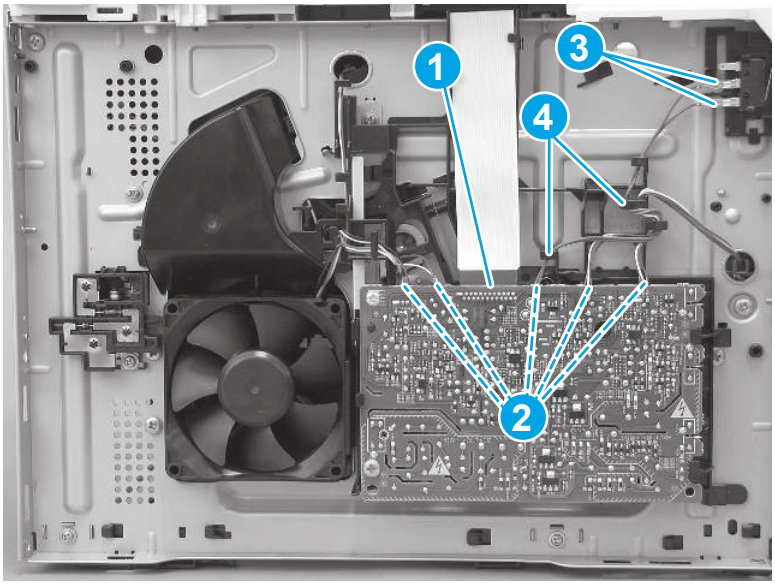
5. Remove the HVPS.

   a. Disconnect one FFC (callout 1), five connectors (callout 2), two wire-harness lugs (callout 3), and then release the wire harness from the retainers (callout 4).

   NOTE: An MFP printer is shown in this section. However, the procedure is correct for all printer models.

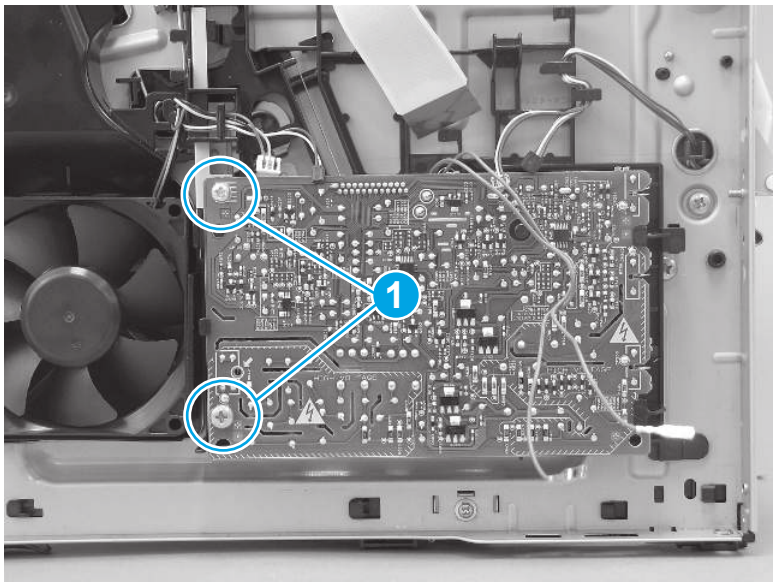
   The microswitch (callout 3) for the M506/E50045/M507/E50145 only has two wire-harness terminals.

Figure 1-992 Disconnect the connectors



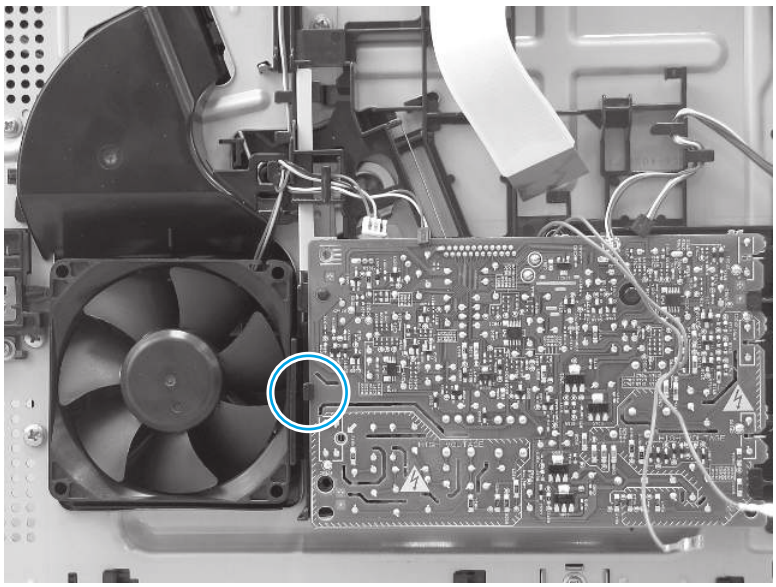
b. Remove two screws (callout 1).

Figure 1-993 Remove two screws



c. Release one tab.

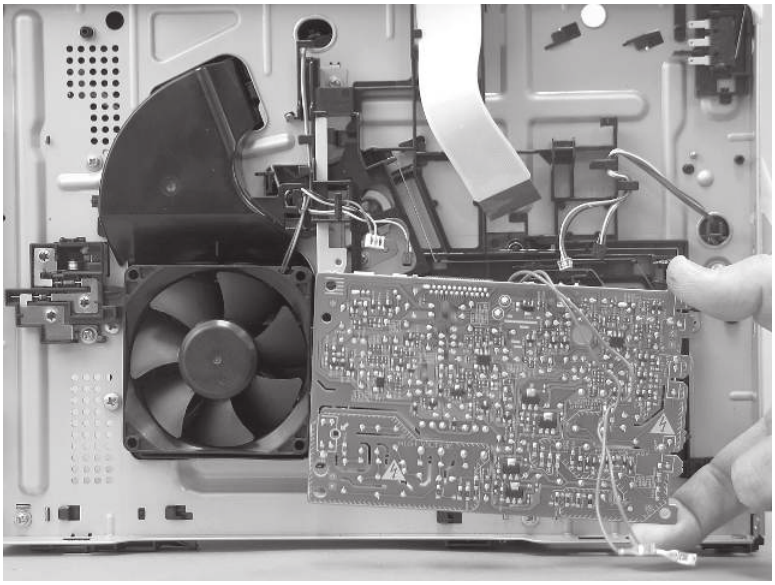
Figure 1-994 Release one tab



d. Remove the HVPS.

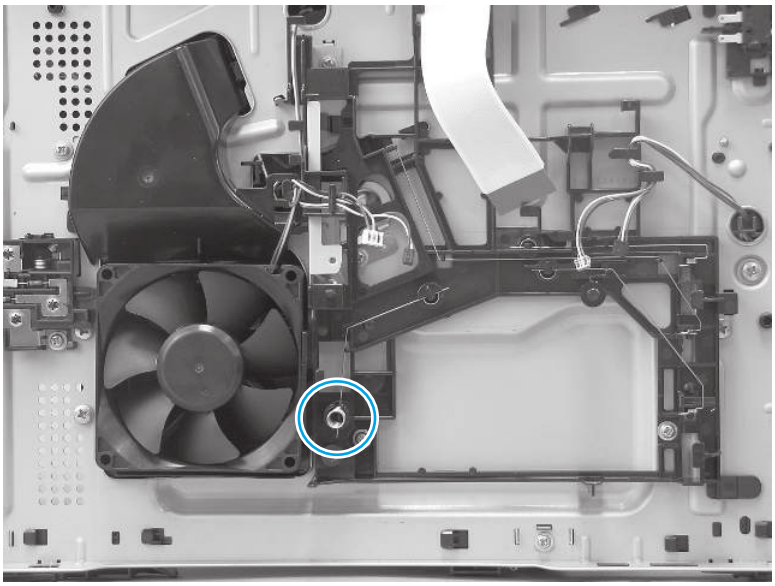
Reinstallation tip: When the HVPS is reinstalled, make sure that the springs on the holder are positioned in the slots on the PCA, and that the PCA is behind the tabs on the holder.

Figure 1-995 Remove the HVPS



e. One spring behind the HVPS is not captive. Do not lose the spring when removing the HVPS.

Figure 1-996 Check the spring



6. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the

sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Removal and replacement: Low-voltage power supply

Learn how to remove and replace the low-voltage power supply (LVPS).

To view a short video of this procedure, click the link below.

M501

View a video of how to remove and replace the LVPS (M051).

M506/E50045

View a video of how to remove and replace the LVPS (M506/E50045).

M507/E50145

View a video of how to remove and replace the LVPS (M507/E50145).

M527/E52545/M528/E52645

View a video of how to remove and replace the LVPS (M527/E52545/M528/E52645).

Mean time to repair: 12 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

WARNING! To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-42 Part information

Part number	Part description
RM2-7951-000CN	Low-voltage power supply (M527/E52545/M528/E52645; 110V-127V)

Table 1-42 Part information (continued)

Part number	Part description
RM2-7952-000CN	Low-voltage power supply (M527/E52545/M528/E52645; 220V-240V)
RM2-7941-000CN	Low-voltage power supply (M501/M506/E50045/M507/E50145; 110V-127V)
RM2-7942-000CN	Low-voltage power supply (M501/M506/E50045/M507/E50145; 220V-240V)

Required tools

- Small flat-blade screwdriver
- #2 Phillips screwdriver with a magnetic tip and a 152 mm (6 in) shaft length

After performing service

Turn the printer power on

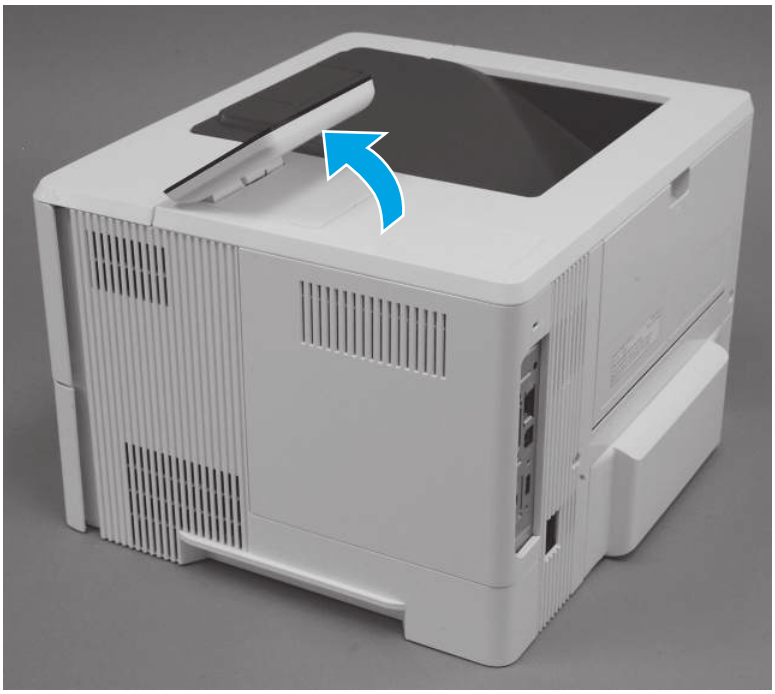
- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

Make sure that the printer initializes to a **Ready** state.

1. Remove the control panel (M506x/E50045x/M507x/E50145x).
   a. Tilt the control panel to the fully raised position.

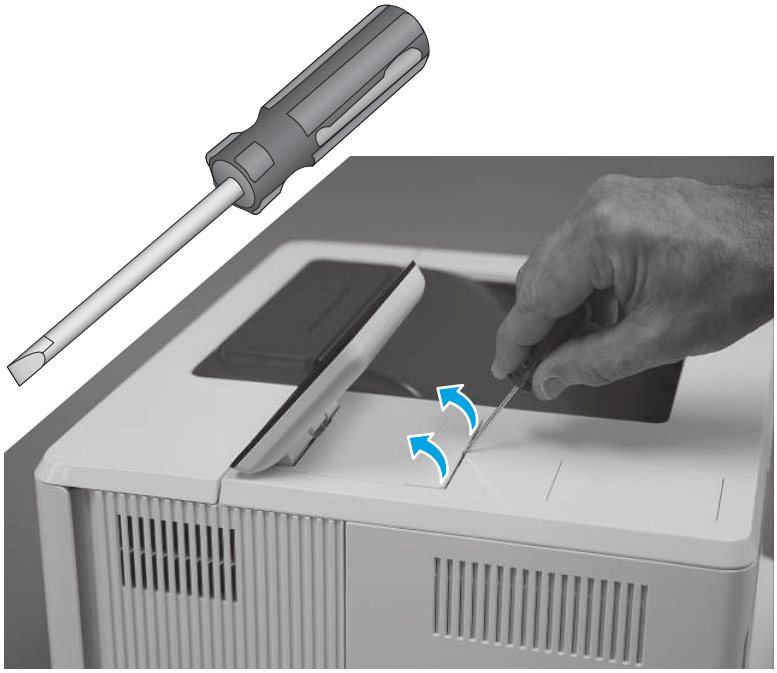
Figure 1-997 Tilt the control panel up



b. Use the small flat-blade screwdriver supplied in the kit to release the control-panel screws cover, and then remove the cover.

TIP: The screwdriver has a reversible shaft. Simply pull the shaft out of the handle, and then reinstall it with the desired end facing out.

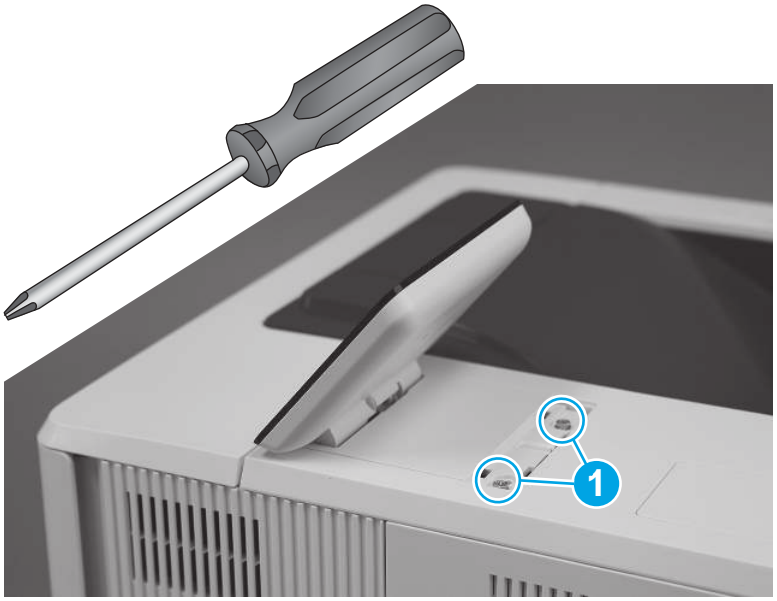
Figure 1-998 Remove the cover



c. Use the small Phillips screwdriver supplied in the kit to remove two screws (callout 1).

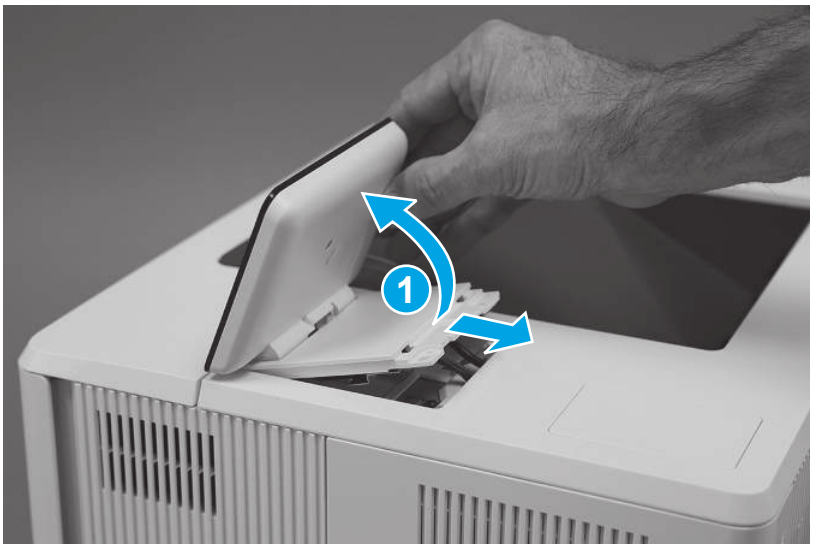
IMPORTANT: Store the screws in a secure place where they cannot fall down into the printer.

Figure 1-999 Remove two screws



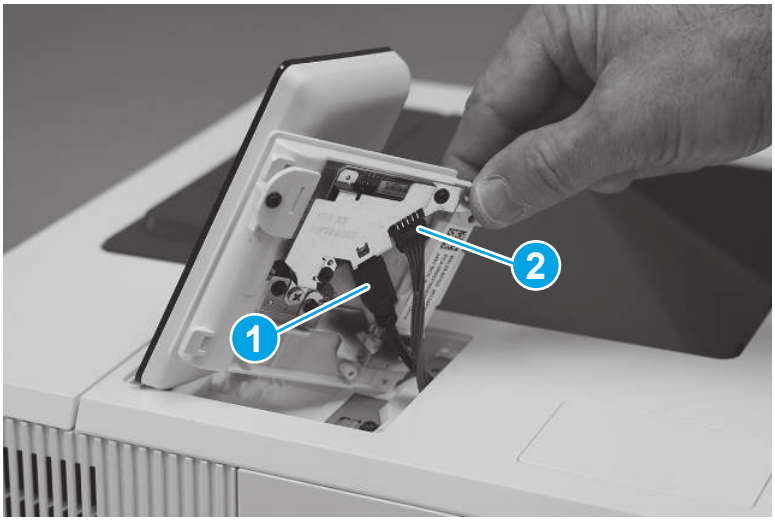
d. Turn the control panel over (callout 1), to gain access to the bottom side.

Figure 1-1000 Turn the control panel over



e. **M506/E50045 only**: Disconnect one HDMI cable (callout 1), one connector (callout 2), and then remove the control panel.

Figure 1-1001 Remove the control panel (M506/E50045)



f. **M507/E50154 only**: If the formatter cover has not been removed, remove it now. Disconnect one flat-flexible cable (FFC).

CAUTION: ESD sensitive part.

NOTE: This connector is a zero-insertion force (ZIF) connector. Open the locking clip. The clip is easily dislodged and lost.

Figure 1-1002 Disconnect one FFC (M507/E50145)

g. **M507/E50145 only**: Pass the FFC through the opening in the cover, and then remove the control panel.

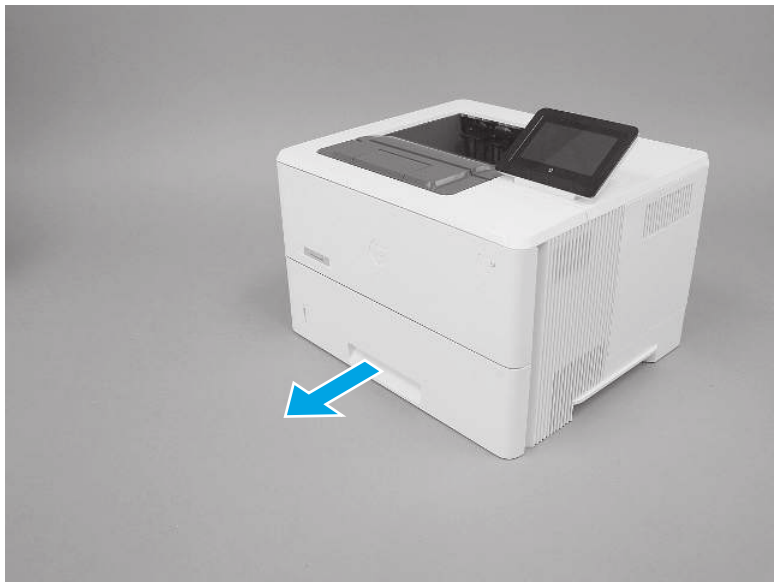
⚠ **CAUTION:** ESD sensitive part.

Figure 1-1003 Remove the control panel (M507/E50145)

2. Remove the tray.

a. Pull the tray straight out of the printer until it stops.

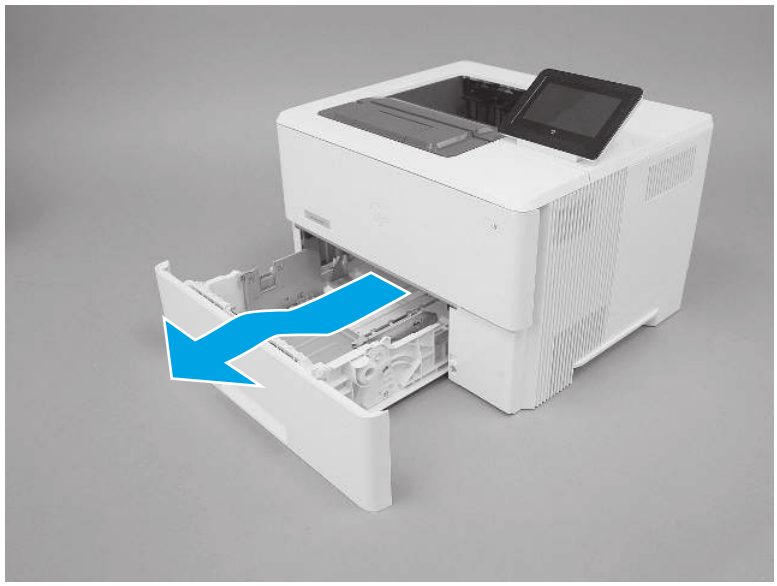
Figure 1-1004 Pull the tray out until it stops



b. Lift the front of the tray, and then pull it out of the printer to remove it.

NOTE: If the tray has Fixed Tray Guides installed and are still required, move the hardware to new tray. If necessary, order new kit: 3GY19-67901 Kit-Fixed Tray Guide. Only one kit required per engine.

Figure 1-1005 Release and remove the tray

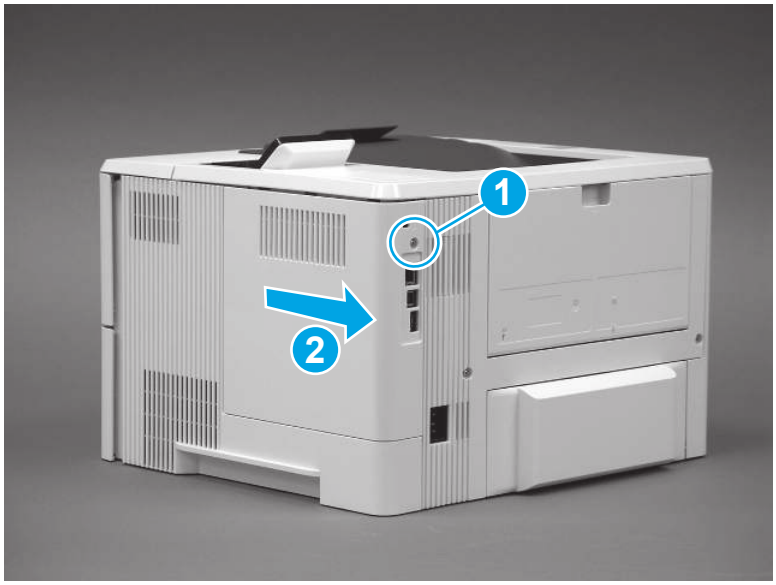


3. Remove the formatter cover.

▲ Do one of the following:

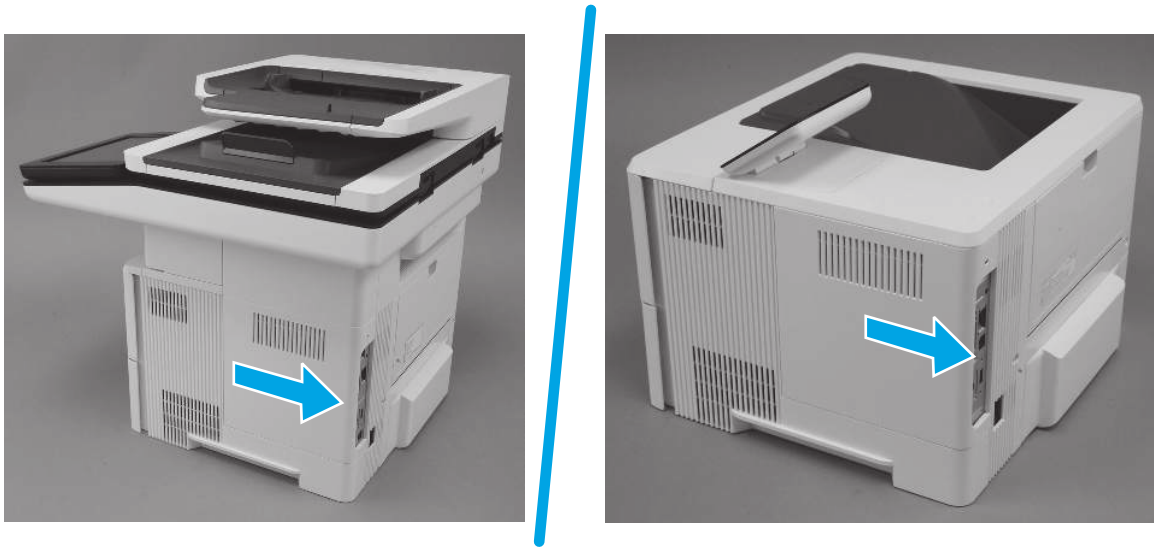
- M501: Remove one screw (callout 1), and then slide the cover toward the rear of the printer to remove it (callout 2).

Figure 1-1006 Remove the formatter cover (M501)



- M506/E50045/M507/E50145/M527/E52545/M528/E52645: Slide the cover toward the rear of the printer to remove it.

  Figure 1-1007 Remove the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)

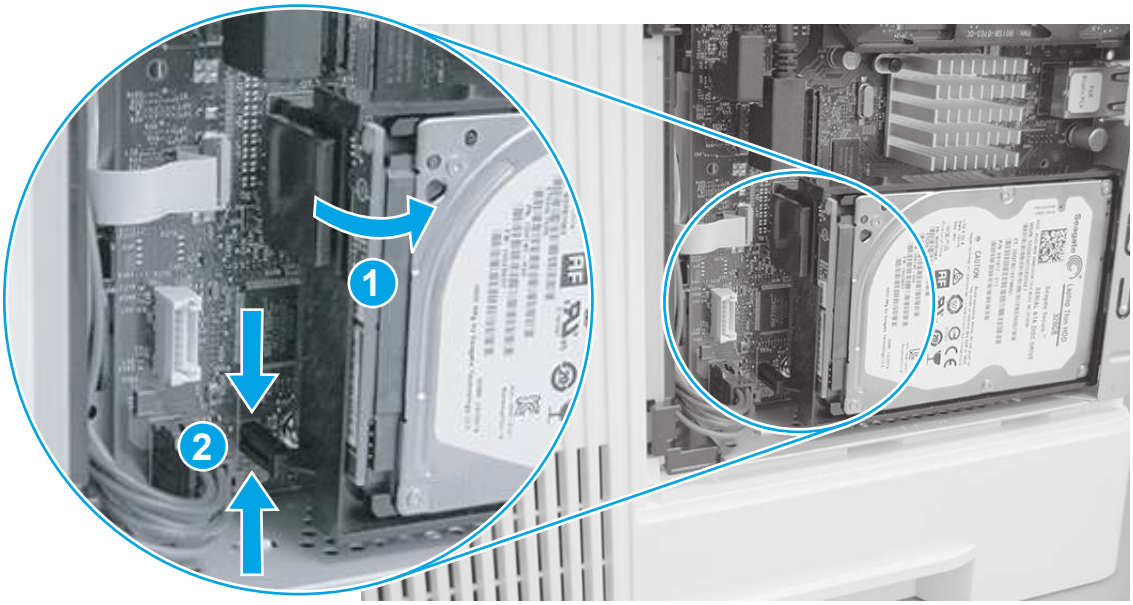


4. Remove the hard-disk drive (HDD models).

⚠ CAUTION: ESD sensitive part.

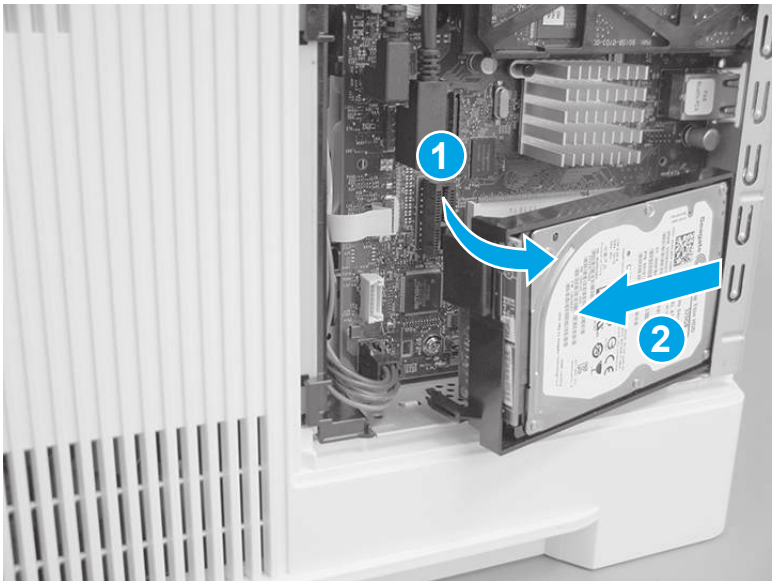
a. Release the locking connector (callout 1), and then pinch the retainer (callout 2) to release it.

Figure 1-1008 Release the HDD



b. Rotate the connector end of the HDD out and away from the formatter (callout 1), and then slide it as shown (callout 2) to remove it.

Figure 1-1009 Remove the HDD

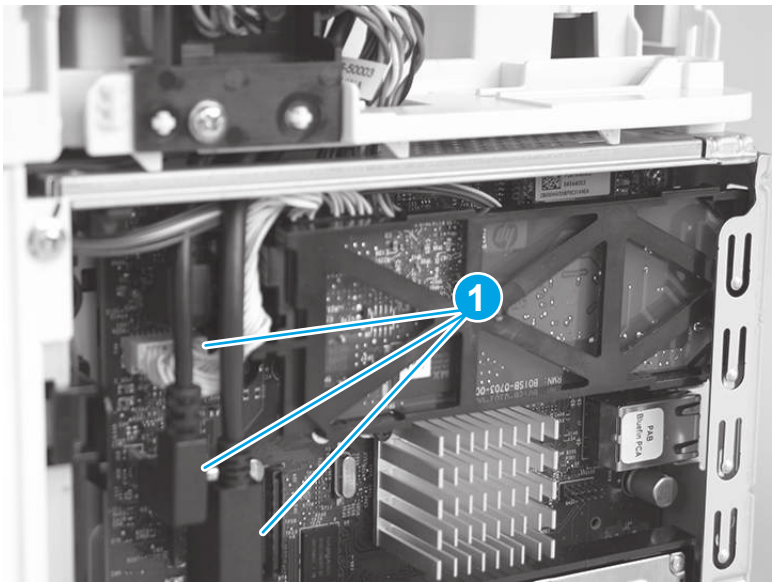


5. Remove the fax PCA (M527/E52545/M528/E52645 fax models).

⚠ CAUTION: ESD-sensitive part.

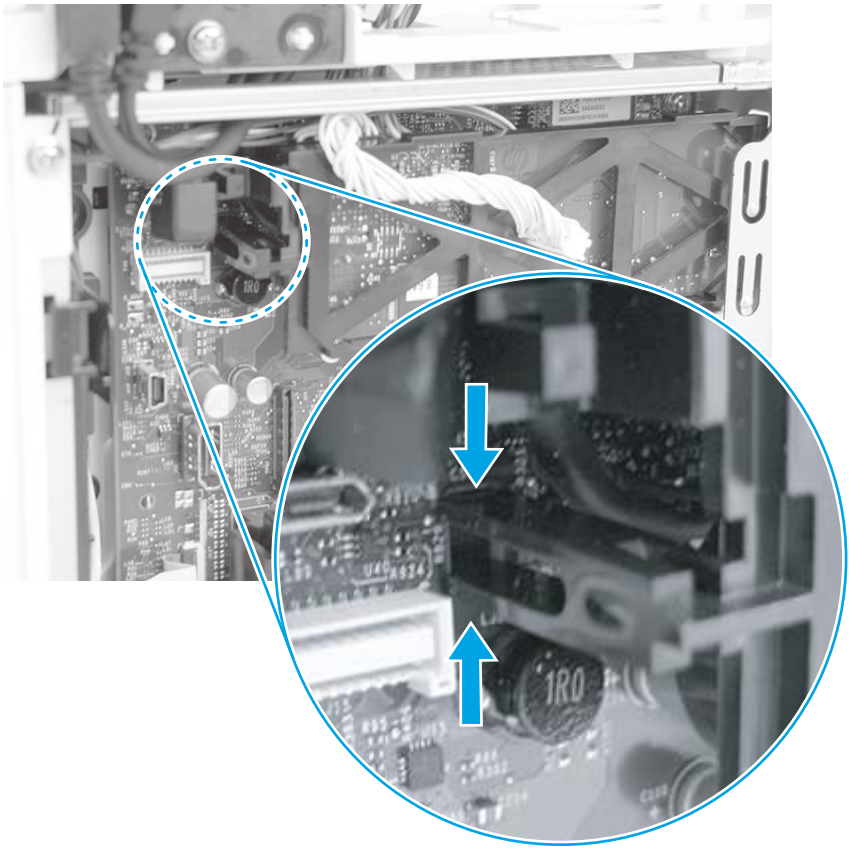
a. Disconnect three connectors (callout 1).

Figure 1-1010 Disconnect three connectors



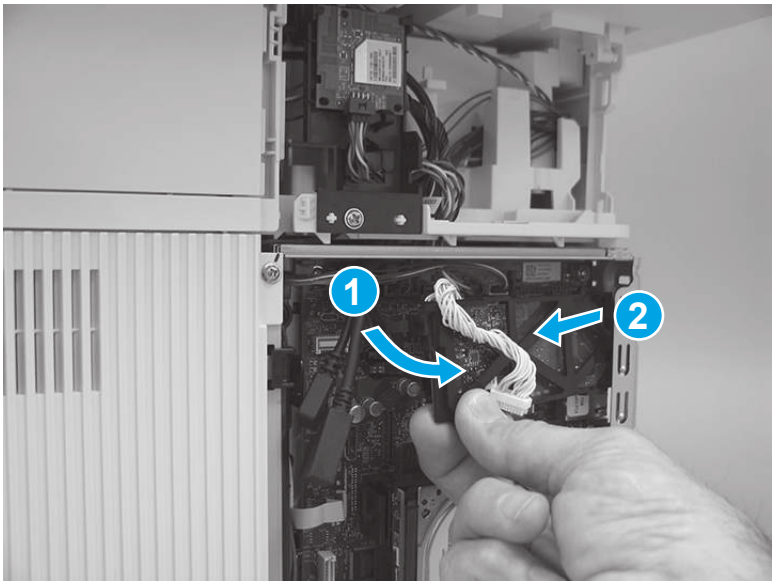
b. Pinch the retainer to release it.

Figure 1-1011 Release the fax PCA



c. Rotate the connector end of the fax PCA out and away from the formatter (callout 1), and then slide it as shown (callout 2) to remove it.

Figure 1-1012 Remove the fax PCA



6. Remove the formatter.

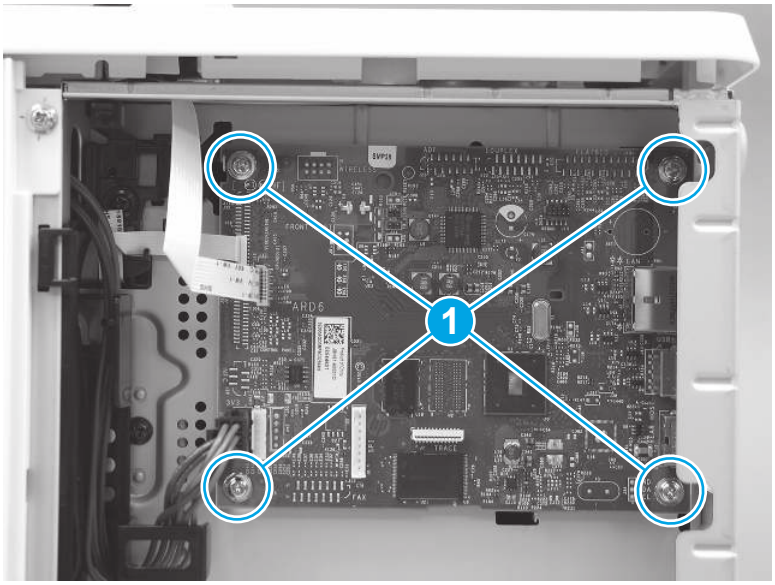
CAUTION: Never remove and then install a replacement DCC and formatter at the same time. Doing so will cause the printer to become unstable.

If a replacement DCC and formatter must be installed, first remove and install the formatter. Test operate the printer, and then if necessary install a replacement DCC.

IMPORTANT: Take note of all empty connectors on the PCA before disconnecting any wire harnesses or flat-flexible cables (FFCs). Some empty connectors might not be visible until other items—like the hard-disk drive—are removed, so pay close attention while removing the formatter and accessory items.

a. **M501**: Disconnect all of the connectors and FFCs, remove four screws (callout 1), and then remove the formatter.

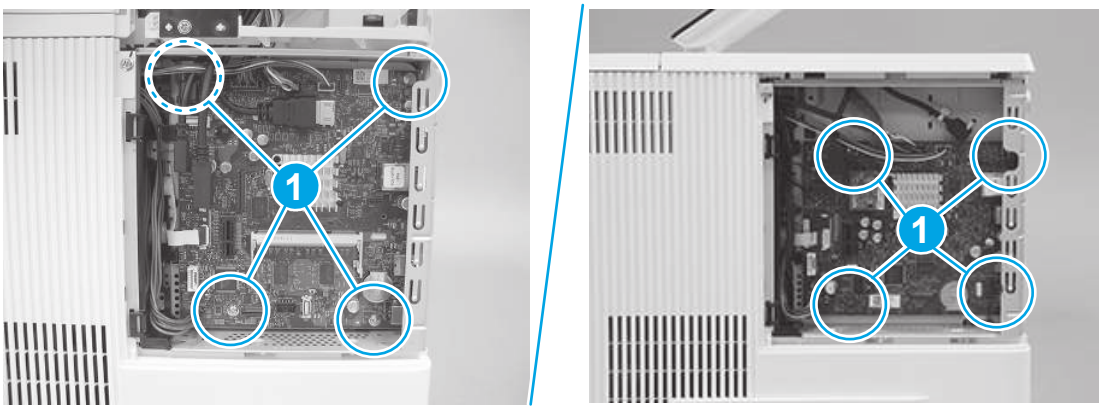
Figure 1-1013 Remove the formatter (M501)



b. **M506/E50045/M507/E50145/M527/E52545/M528/E52645**: Disconnect all of the connectors and FFCs, remove four screws (callout 1), and then remove the formatter.

IMPORTANT: Take note of all empty connectors on the formatter before disconnecting any wire harnesses or flat-flexible cables (FFCs). Some empty connectors might not be visible until other items —like the hard-disk drive—are removed, so pay close attention while removing the formatter and accessories items.

Figure 1-1014 Remove the formatter (M506/E50045/M507/E50145/M527/E52545/M528/E52645)

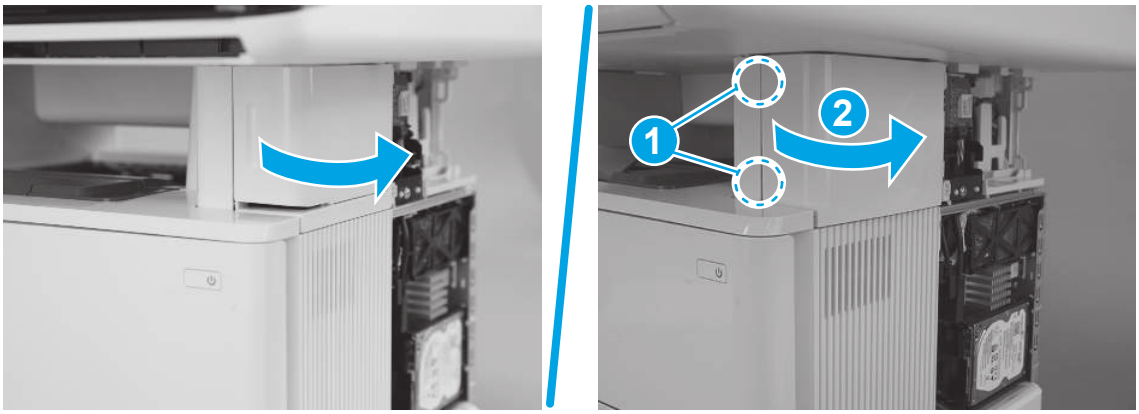


7. Remove the stapler door or stapler blank cover (M527/E52545/M528/E52645).

a. Do one of the following:

- **Stapler models**: Open the stapler door.
- **Non-stapler models**: Use a small flat-blade screw driver to release two tabs (callout 1), and then rotate the cover away from the printer (callout 2).

Figure 1-1015 Open the door or release the cover



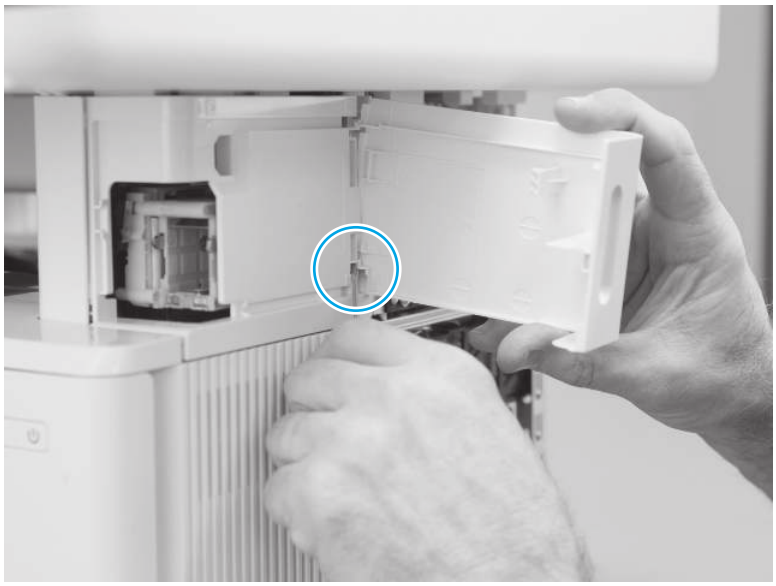
b. Do one of the following:

- **Stapler models**: Use a small flat-blade screwdriver to release the upper hinge.
- **Non-stapler models**: Slide the cover toward the front of the printer to remove it.

Figure 1-1016 Release the upper hinge or remove the cover

c. **Stapler models**: Use a small flat-blade screwdriver to release the lower hinge.

Figure 1-1017 Release the lower hinge



d. **Stapler models**: Remove the door.

Figure 1-1018 Remove the door

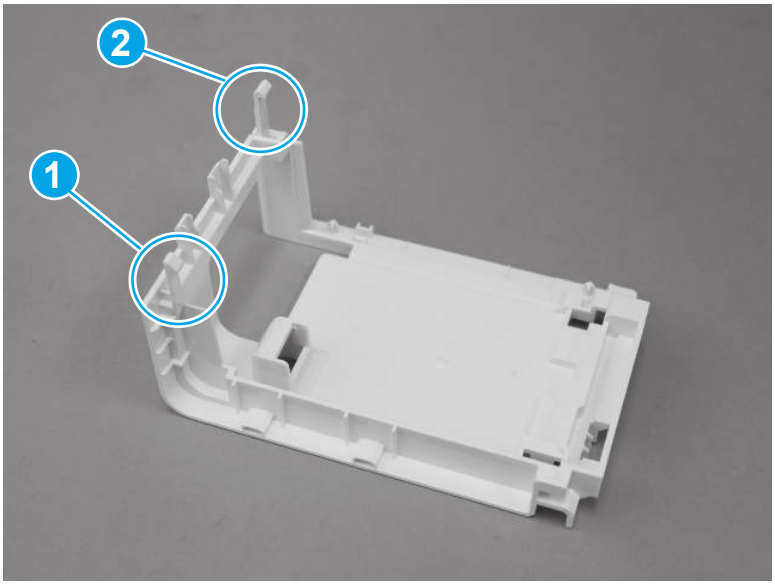
8. Remove the stapler stationary (inner) cover (M527/E52545/M528/E52645).

NOTE: Stapler models only.

a. Before proceeding, take note of the locations of the upper tab (callout 1) and the lower tab (callout 2) on the stapler stationary (inner) cover.

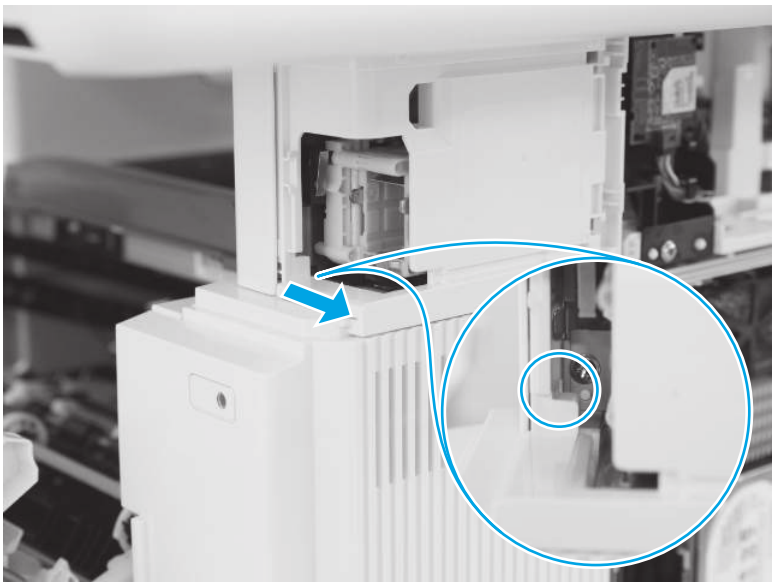
Reinstallation tip: When reinstalling the cover, take note of the location of the tabs.

Figure 1-1019 Locate the tabs



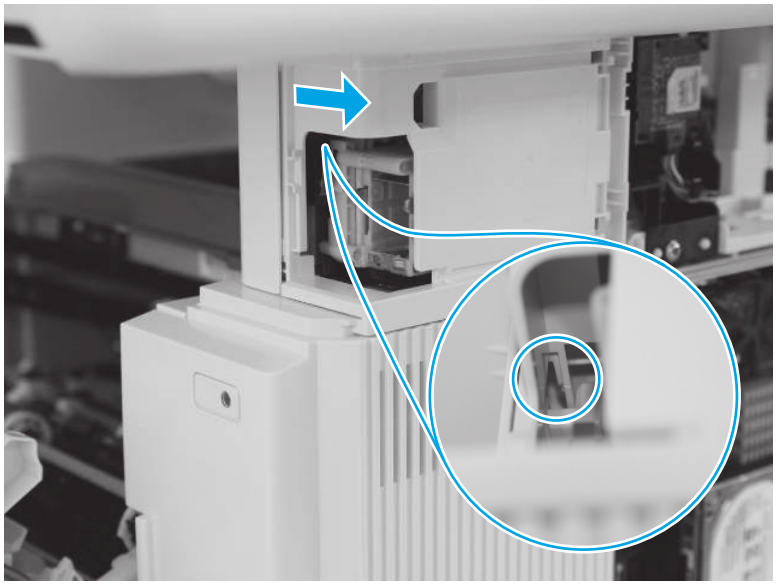
b. Use a long-shaft small flat-blade screwdriver to release the lower tab.

Figure 1-1020 Release one tab



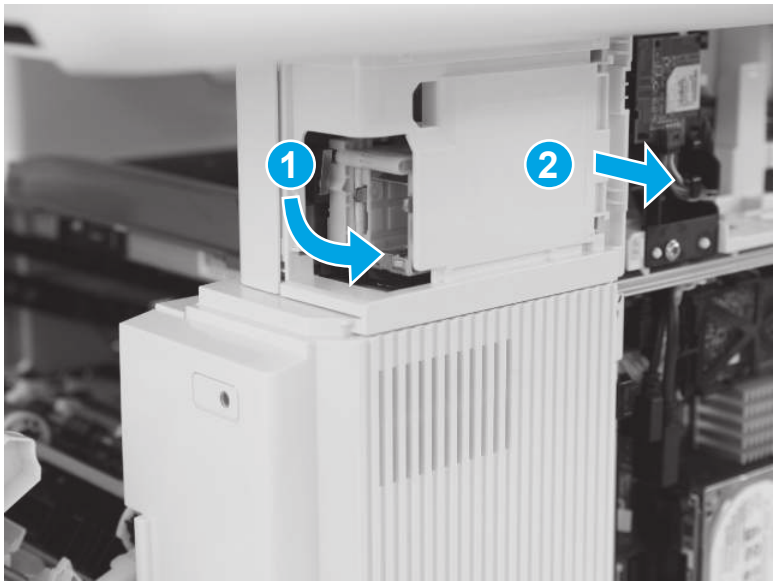
c. Use a long-shaft small flat-blade screwdriver to release the upper tab.

Figure 1-1021 Release one tab



d. With the tabs disengaged the front of the cover is released. Rotate the front of the cover away from the printer (callout 1) to release the rear of the cover (callout 2), and then remove it.

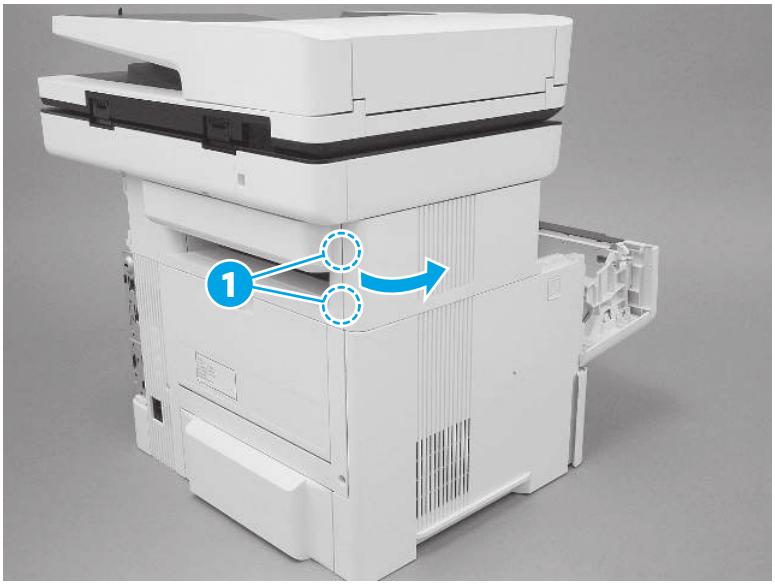
Figure 1-1022 Remove the cover



9. Remove the top-left cover (M527/E52545M528/E52645).

a. Open the toner-cartridge door, release two tabs (callout 1), and then rotate the rear edge of the cover away from the printer.

Figure 1-1023 Release two tabs



b. Continue to rotate the cover away from the printer to release two more tabs at the middle of the cover.

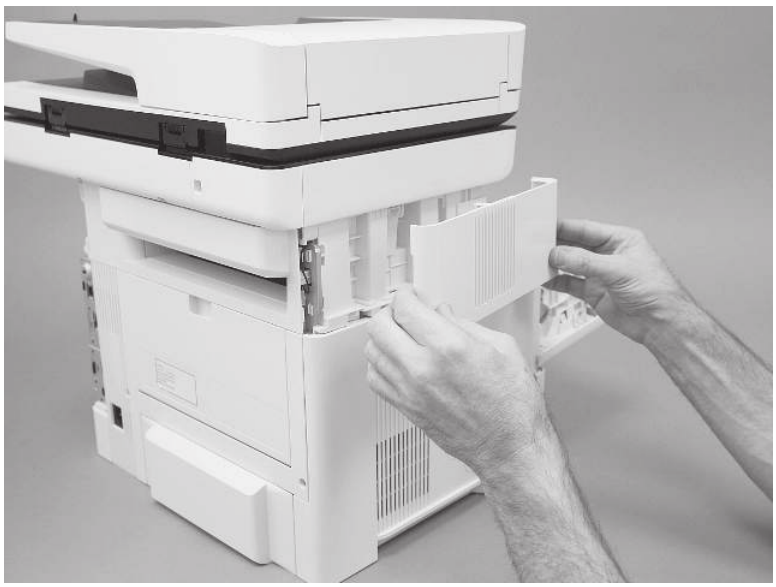
Figure 1-1024 Release two tabs

c. Slide the cover toward the rear of the printer to release two bosses at the front of the cover.

Figure 1-1025 Slide the cover

d. Remove the cover.

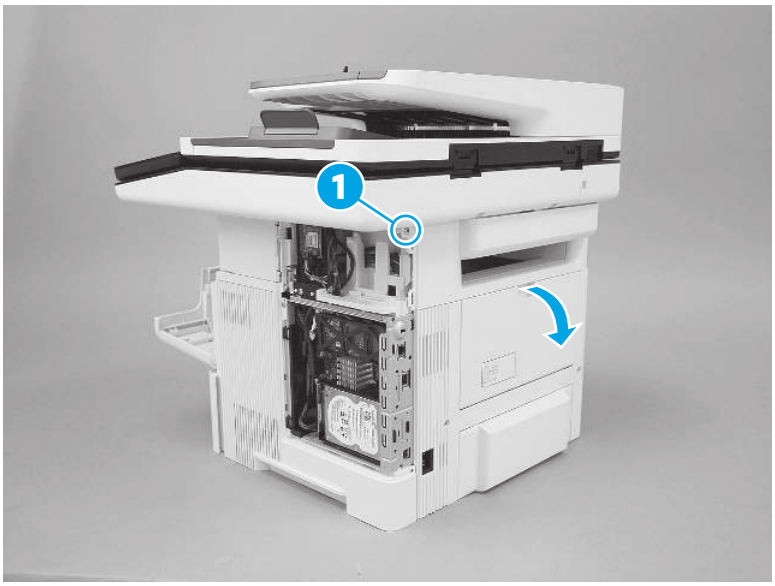
Figure 1-1026 Remove the cover



10. Remove the top-rear cover (M527/E52545/M528/E52645).

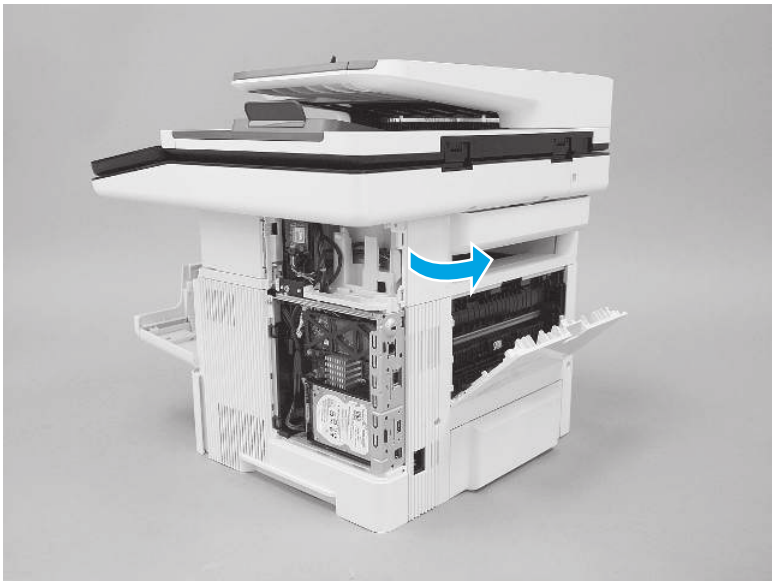
a. Remove one screw (callout 1), and then open the rear door.

Figure 1-1027 Remove one screw



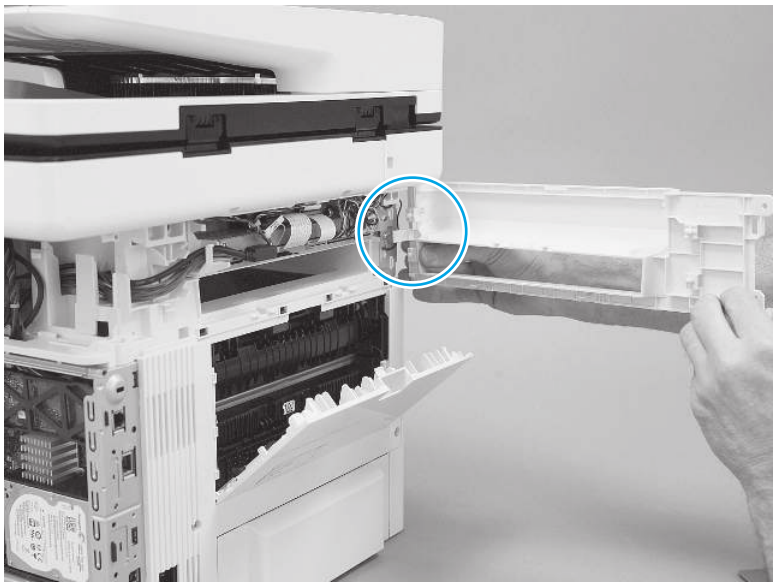
b. Rotate the exposed edge of the cover away from the printer (as shown).

Figure 1-1028 Rotate the cover



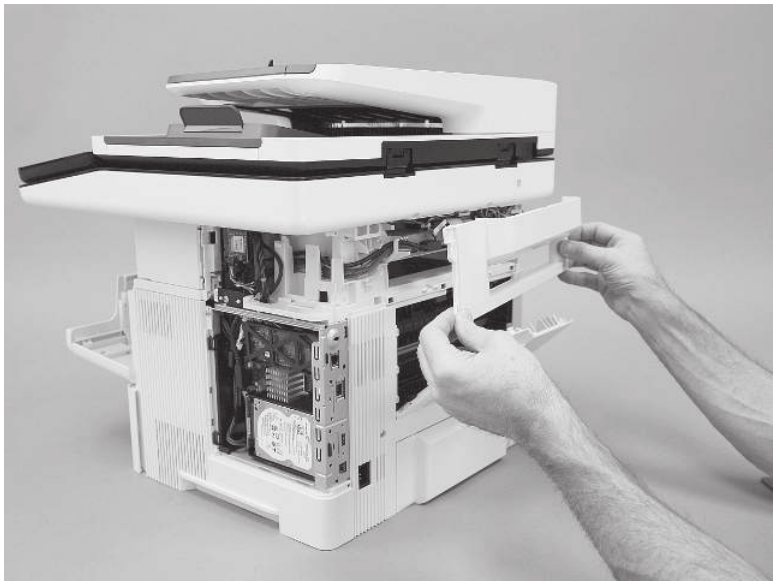
c. Continue to rotate the cover away from the printer to release one boss.

Figure 1-1029 Release one boss



d. Remove the cover.

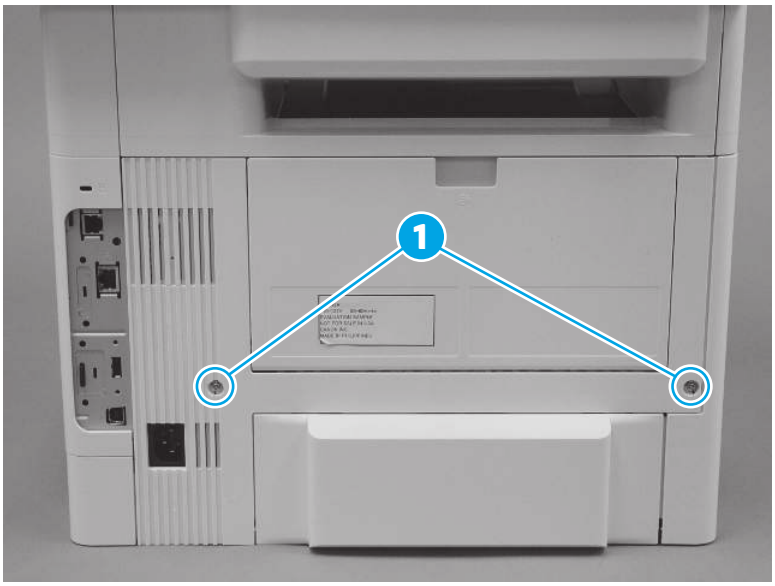
Figure 1-1030 Remove the cover



11. Remove the rear door assembly.

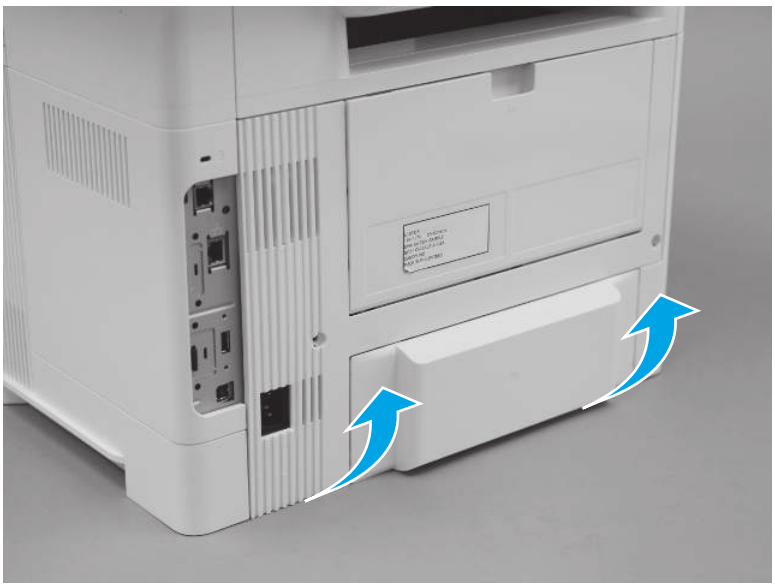
a. At the rear of the printer, remove two screws (callout 1).

Figure 1-1031 Remove two screws



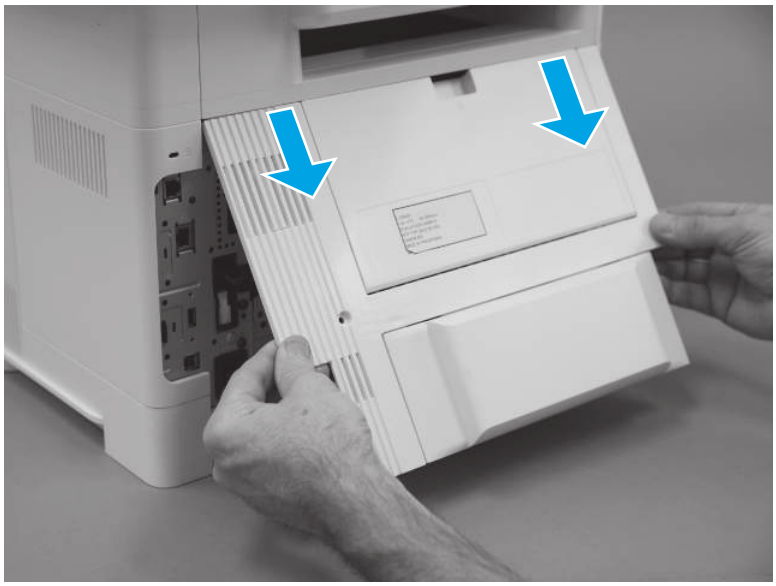
b. Rotate the bottom edge of the assembly away from the printer to release it.

Figure 1-1032 Rotate the bottom of the cover



c. Pull down on the assembly to remove it.

Figure 1-1033 Remove the cover



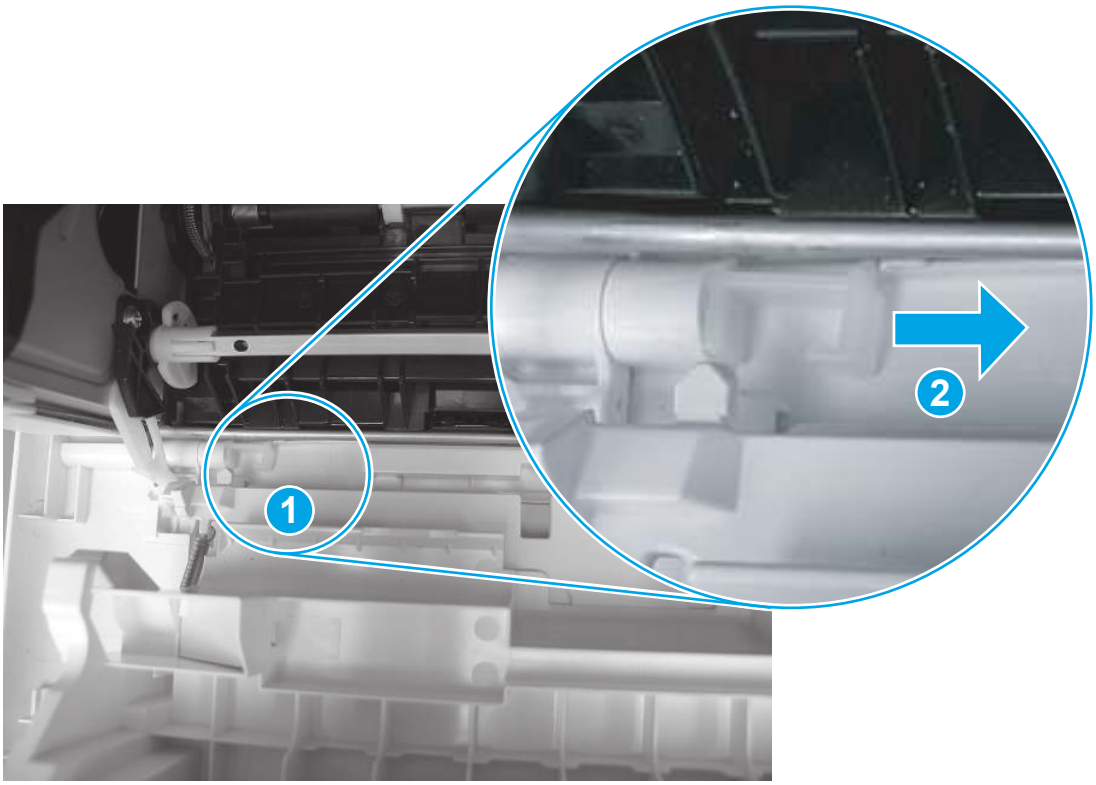
12. Remove the cartridge door assembly.

NOTE: If the toner cartridge was not removed prior to servicing the printer, remove it now.

a. Release the support shaft (callout 1), and then slide it toward the center of the door (callout 2).

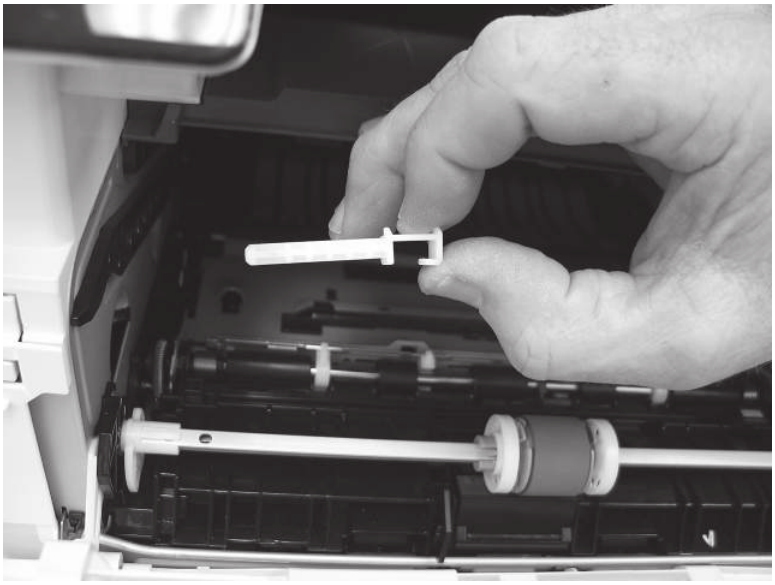
TIP: It might be easier to release the support shaft by using a small flat-blade screwdriver.

Figure 1-1034 Release the support shaft



b. Remove the support shaft.

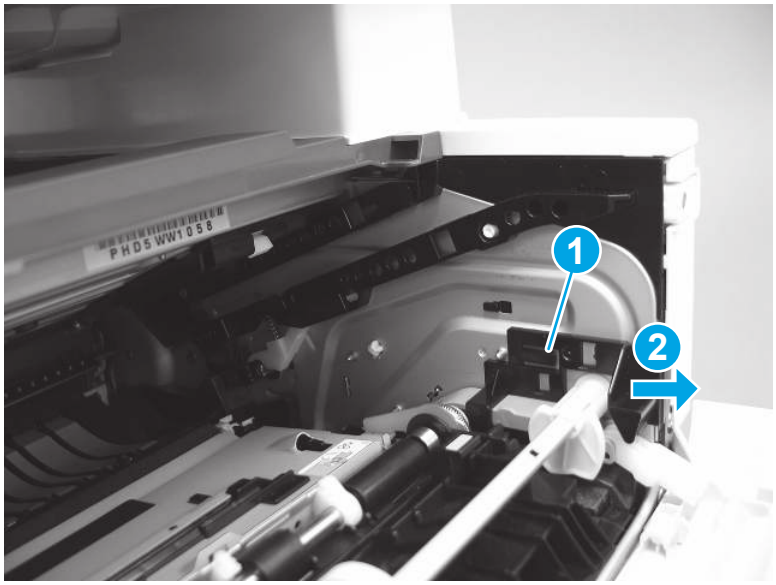
Figure 1-1035 Remove the support shaft



c. Release one tab (callout 1), and then slide the guide out of the printer (callout 2).

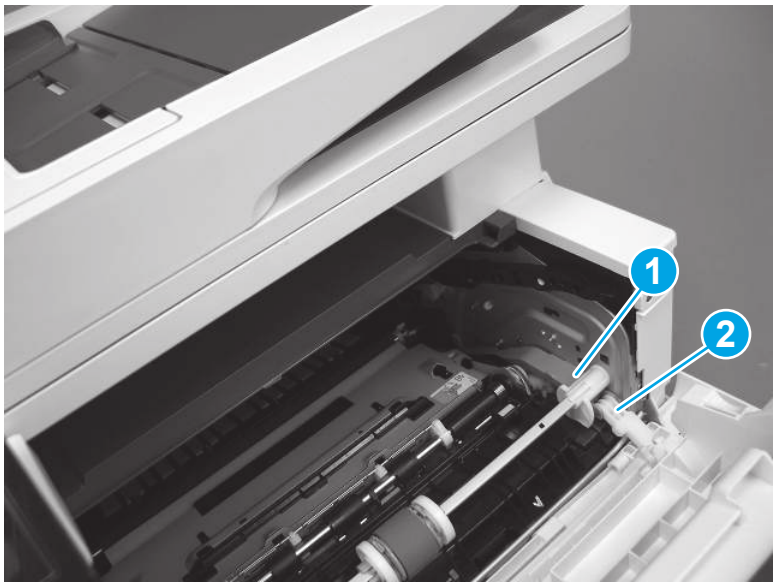
⚠ CAUTION: Be careful, the tab (callout 1) can be easily broken.

Figure 1-1036 Remove the guide



d. Use a small flat-blade screwdriver to gently pry the white-plastic door arm (callout 1) off of the gray-plastic pressure-release link (callout 2) to release the door arm.

Figure 1-1037 Release the pressure-release link



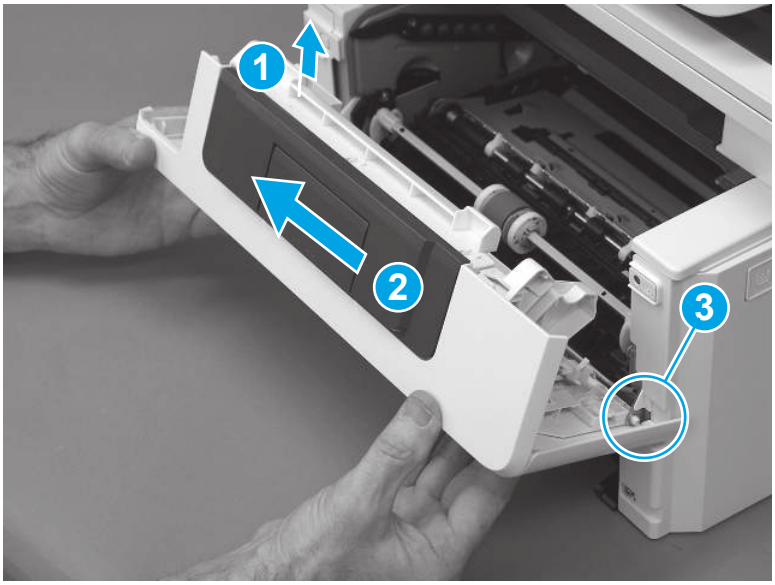
e. With the door in the partially closed position, slightly raise the left end (callout 1; raise it over the sheet-metal hinge boss), and then slide the door to the left (callout 2) to release the right hinge (callout 3).

⚠ CAUTION: The door is still attached to the printer by the left-side retainer arm. Do not attempt to completely remove the door.

Reinstallation tip: When reinstalling the door, there are two right-side hinge pins (not shown in callout 3).

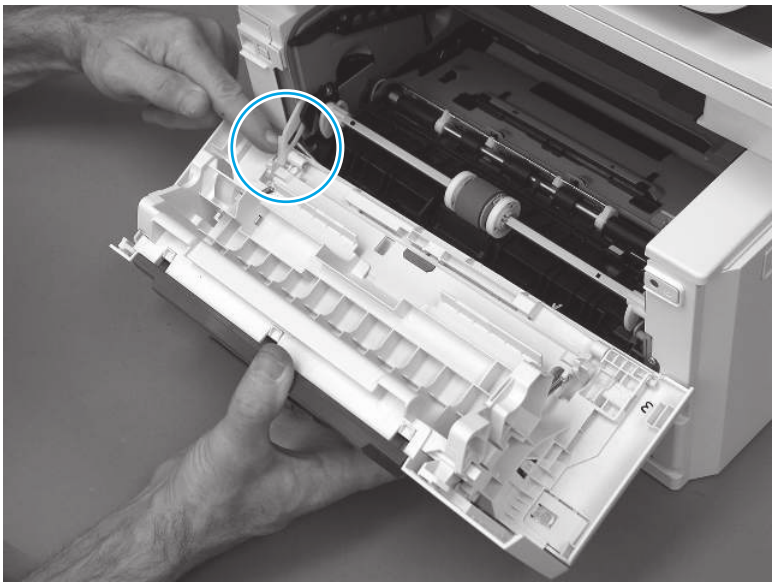
Keep a finger pressed on the left-side retainer arm so that it does not disengage from the door.

Figure 1-1038 Release the door



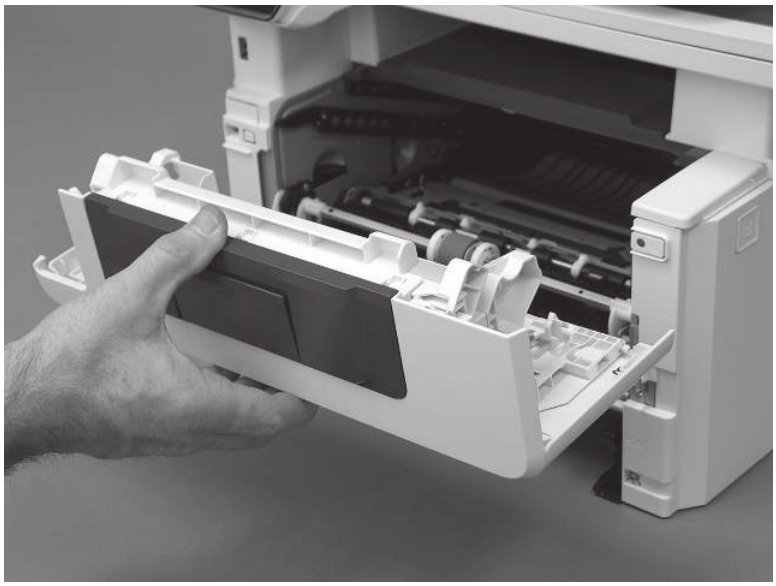
f. Rotate the door away from the printer until the keyed pin on the left-side retainer arm can disengage from the door.

Figure 1-1039 Release the left-side retainer arm



g. Remove the door.

Figure 1-1040 Remove the door



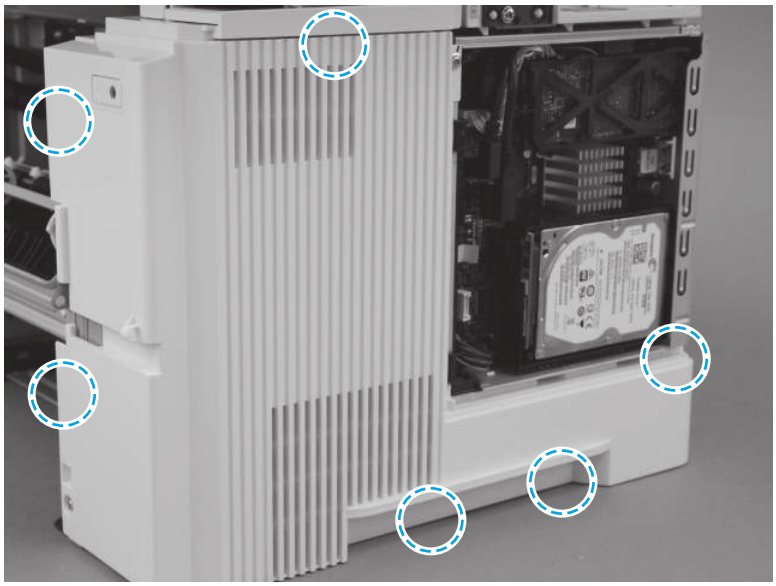
13. Remove the right cover.

IMPORTANT: The black-plastic cassette front and rear guides (located inside the tray cavity) can be easily dislodged. Do not lose the guides when the cover is removed or installed.

An MFP printer is shown in this section. However, the procedure is correct for all printer models.

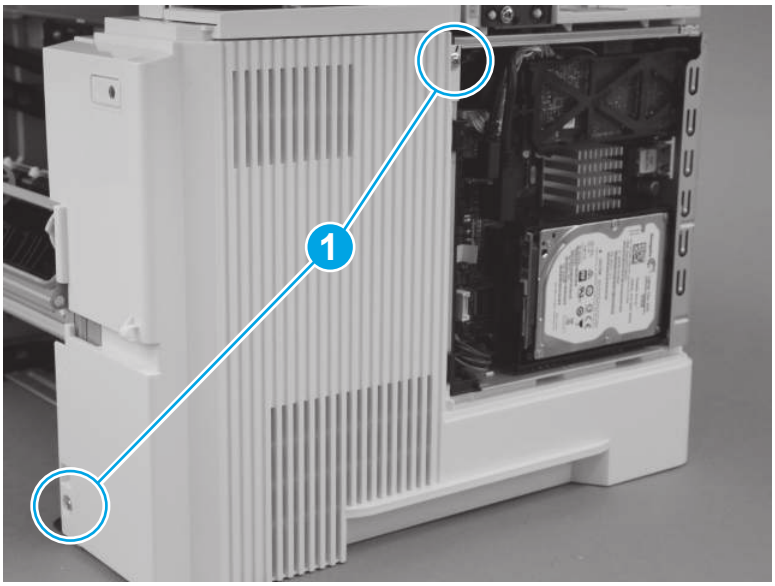
a. Before proceeding, take note of the location of the tabs and bosses on the inside of the cover.

Figure 1-1041 Locate the tabs and bosses



b. Remove two screws (callout 1).

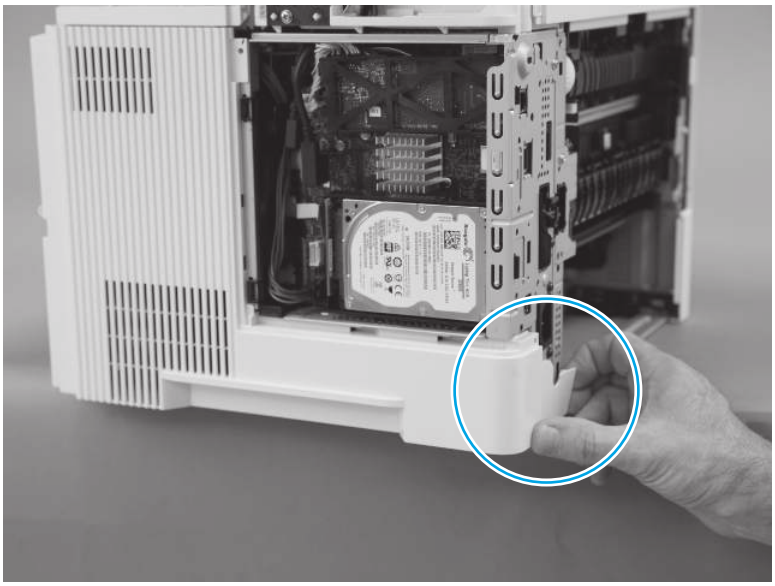
Figure 1-1042 Remove two screws



c. At the rear of the printer, release one boss.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

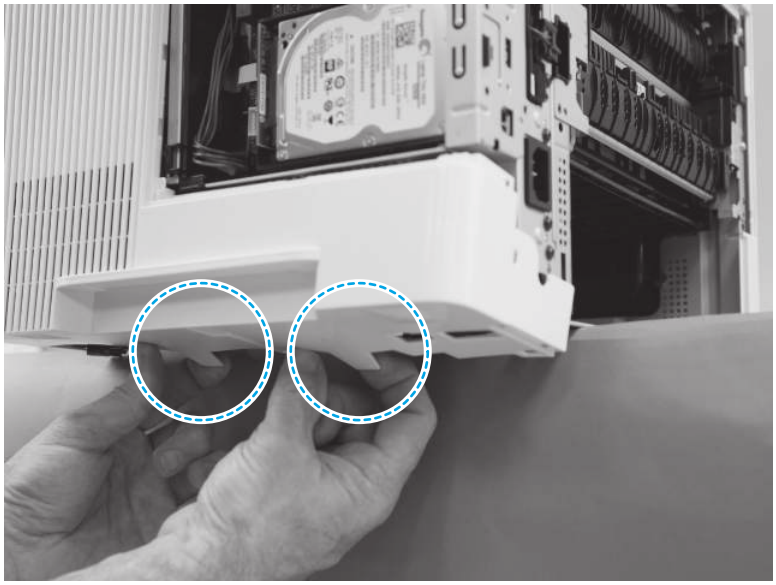
Figure 1-1043 Release one boss



d. At the bottom edge of the cover, release two bosses.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

Figure 1-1044 Release two bosses

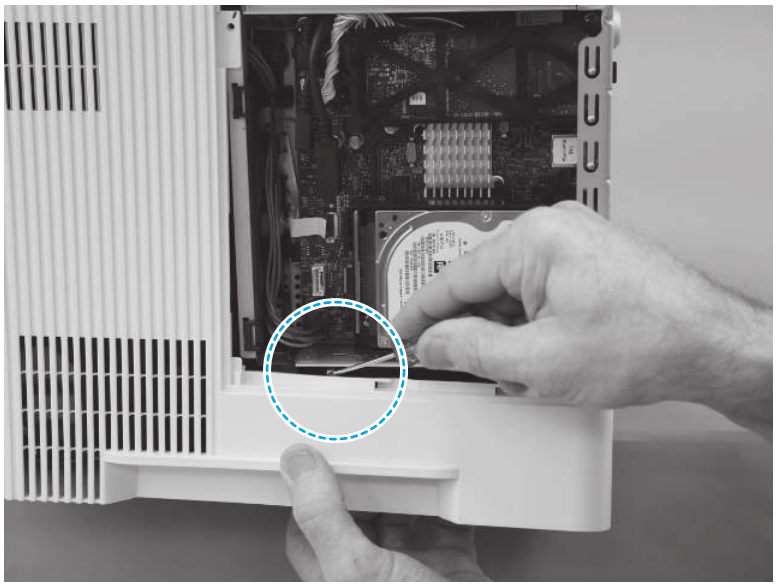


e. Near the formatter, release one tab.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

TIP: Hold the bottom of the cover away from the printer, and then use a small flat-blade screw driver to easily release this tab.

Figure 1-1045 Release one tab

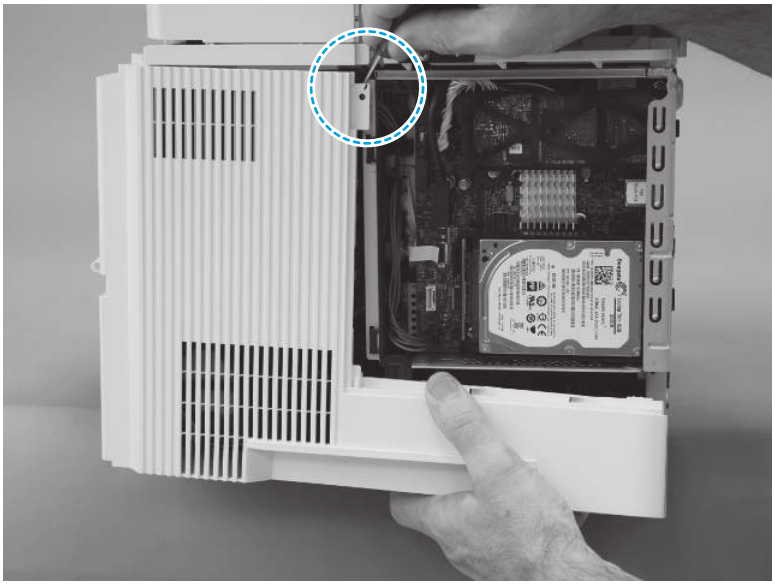


f. At the top rear edge of the cover, release one tab.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

TIP: Use a small flat-blade screw driver to easily release this tab.

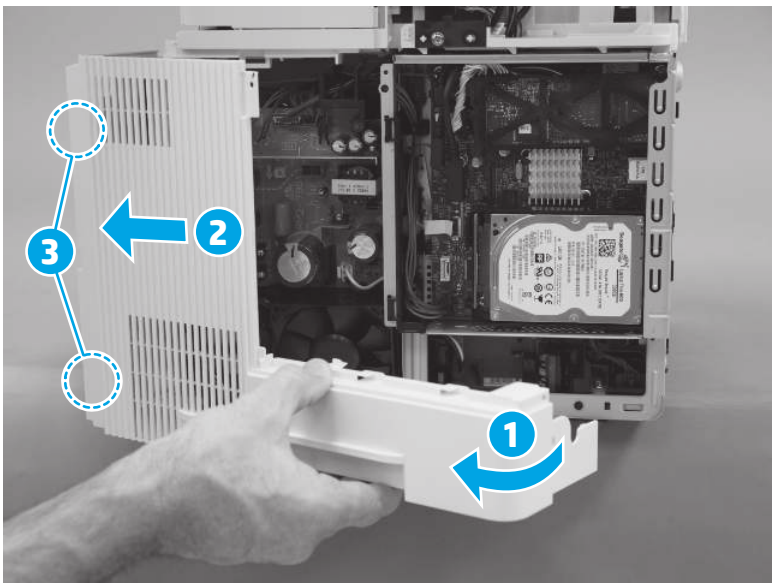
Figure 1-1046 Release one tab



g. Rotate the rear of the cover away from the printer (callout 1), slide the cover toward the front of the printer (callout 2) to release two bosses (callout 3), and then remove the cover.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

Figure 1-1047 Remove the cover



14. Remove the left cover.

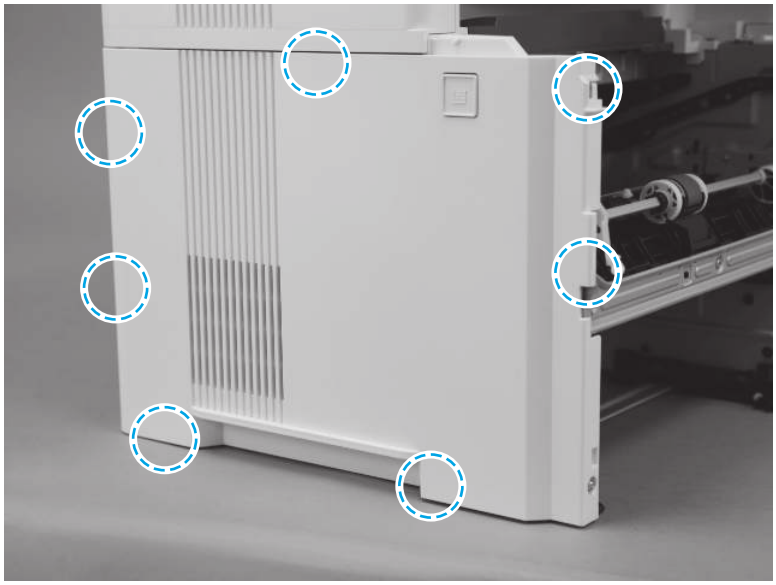
IMPORTANT: The black-plastic cassette front and rear guides (located inside the tray cavity) can be easily dislodged. Do not lose the guides when the cover is removed or installed.

NOTE: An MFP printer is shown in this section. However, the procedure is correct for all printer models.

a. Before proceeding, take note of the location of the tabs and bosses on the inside of the cover.

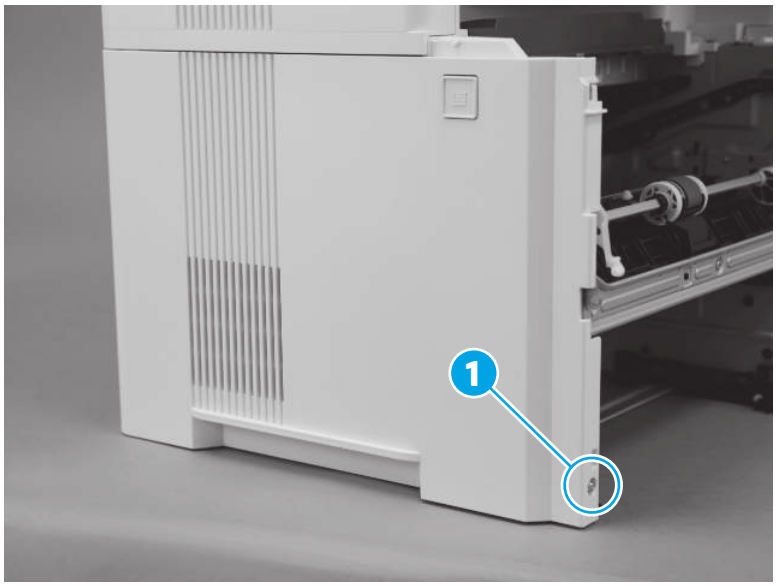
Reinstallation tip: When reinstalling the cover, take note of the location of the tabs and bosses on the inside of the cover.

Figure 1-1048 Locate of the tabs and bosses



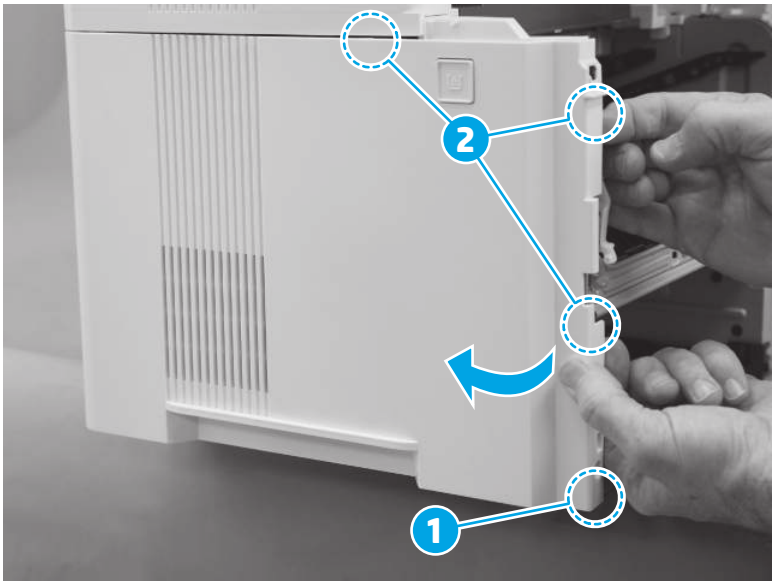
b. Remove one screw (callout 1).

Figure 1-1049 Remove one screw



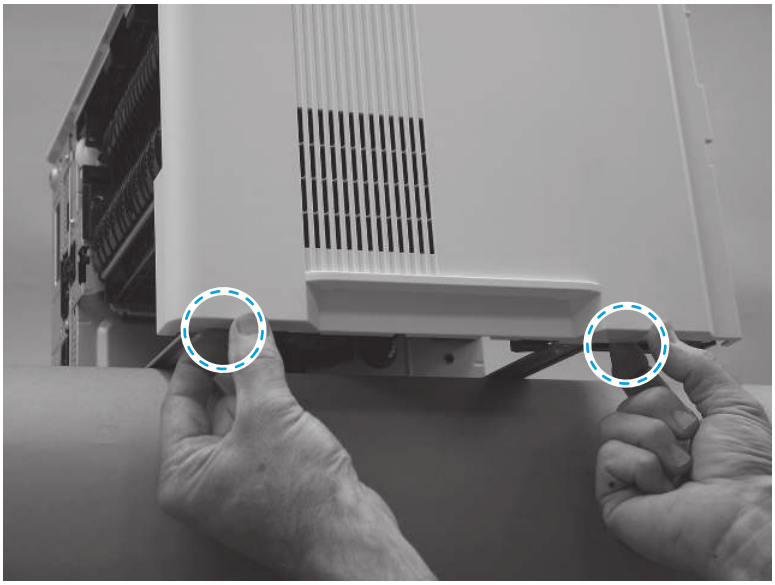
c. At the front of the printer, release one boss (callout 1), and then rotate the front edge of the cover away from the printer to release three tabs (callout 2).

Figure 1-1050 Release one boss and three tabs



d. At the bottom edge of the cover, release two tabs.

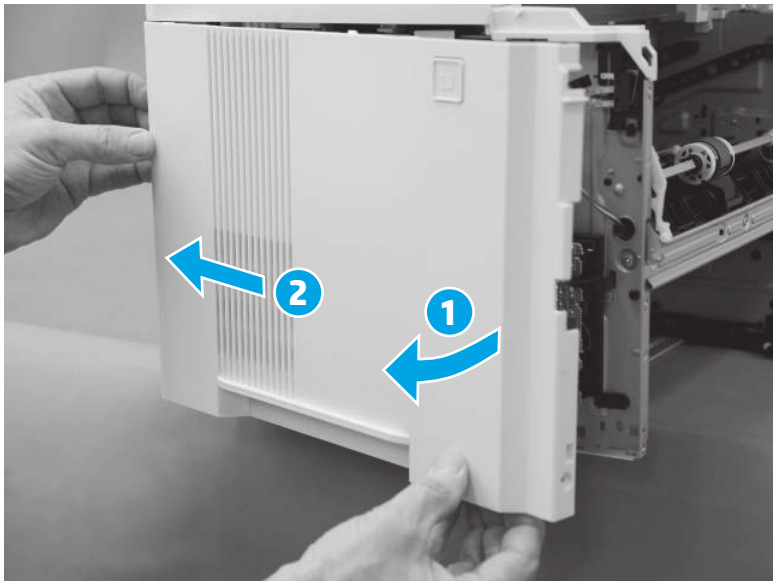
Figure 1-1051 Release two tabs



e. Continue to rotate the front edge of the cover away from the printer (callout 1), and then slide the cover toward the rear of the printer (callout 2) to remove it.

NOTE: If the cover is difficult to rotate or slide as shown below, make sure that the bottom tabs (released in the previous step) are completely disengaged from the chassis.

Figure 1-1052 Remove the cover



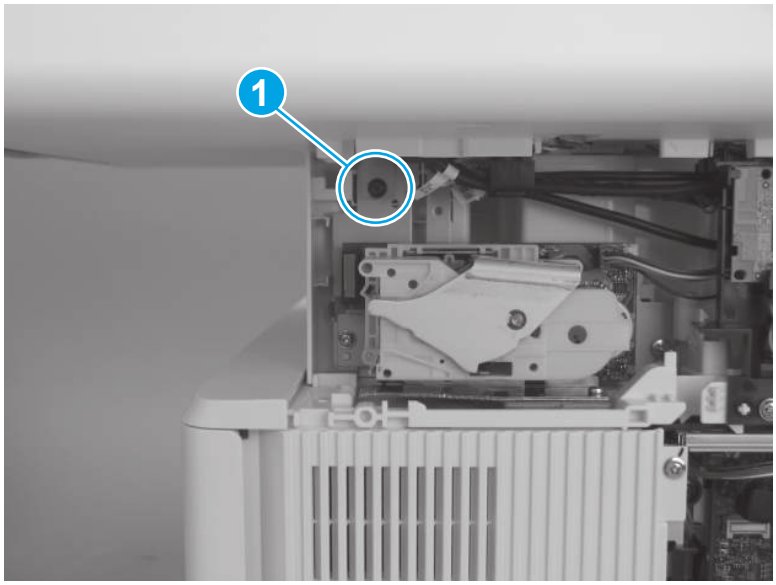
15. Remove the integrated-scanner assembly (ISA) (M527/E52545/M528/E52645).

NOTE: The ISA includes the document feeder, sub-scanner assembly (SSA), and the scanner control board (SCB).

a. Remove one screw (callout 1).

IMPORTANT: This screw fastens the ISA ground plate to the printer chassis. Do not lose this screw.

Figure 1-1053 Remove one screw

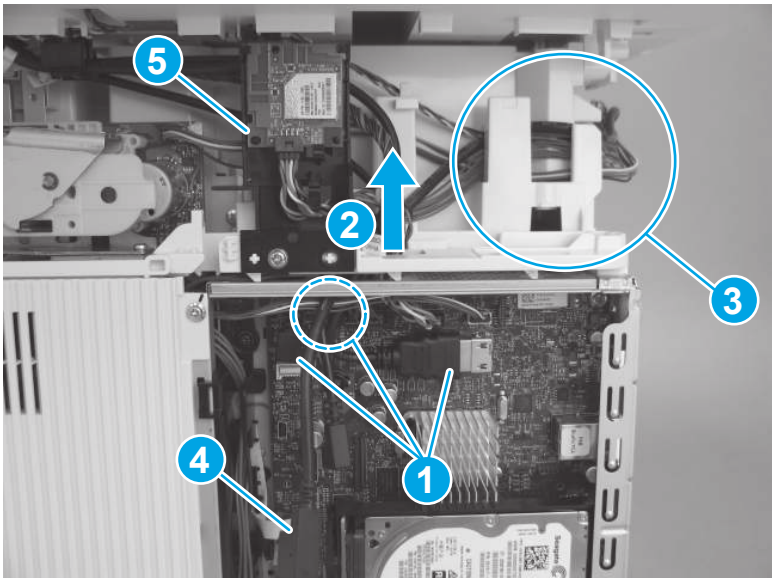


b. Disconnect three connectors (callout 1), pass the wire harnesses and cables through the opening in the cover (callout 2), and then release them from the retainers (callout 3).

NOTE: One cable (callout 4) does not need to pass through the opening in the cover.

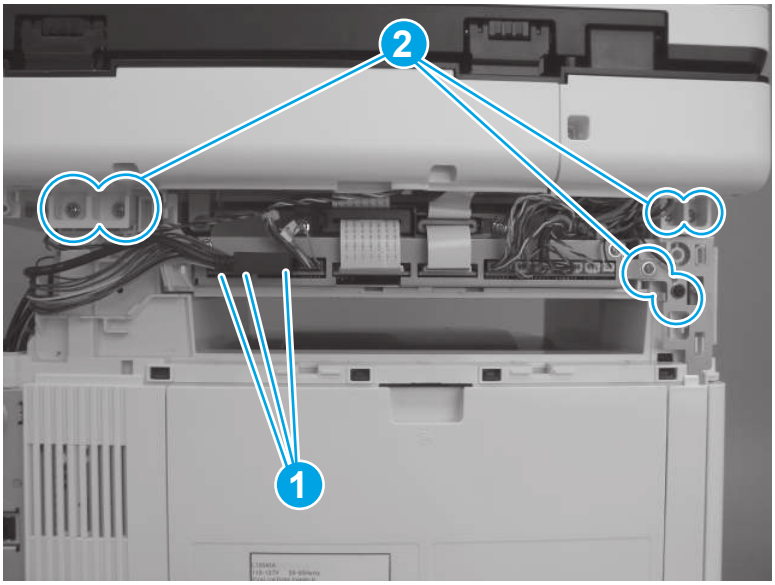
TIP: It might be easier if the WiFi PCA and holder (not all models; callout 5) is detached from the printer, and then moved out of the way.

Figure 1-1054 Disconnect cables and connectors



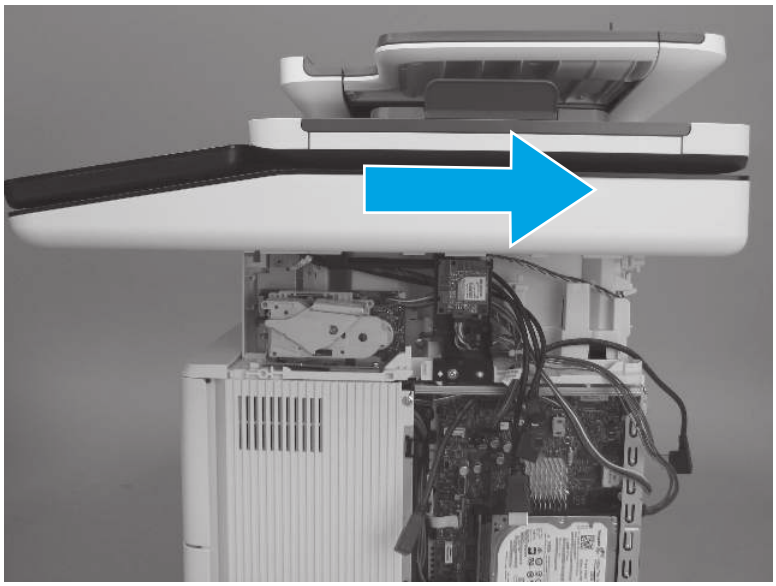
c. Disconnect three connectors (callout 1), and then remove six screws (callout 2).

Figure 1-1055 Disconnect connectors and remove screws



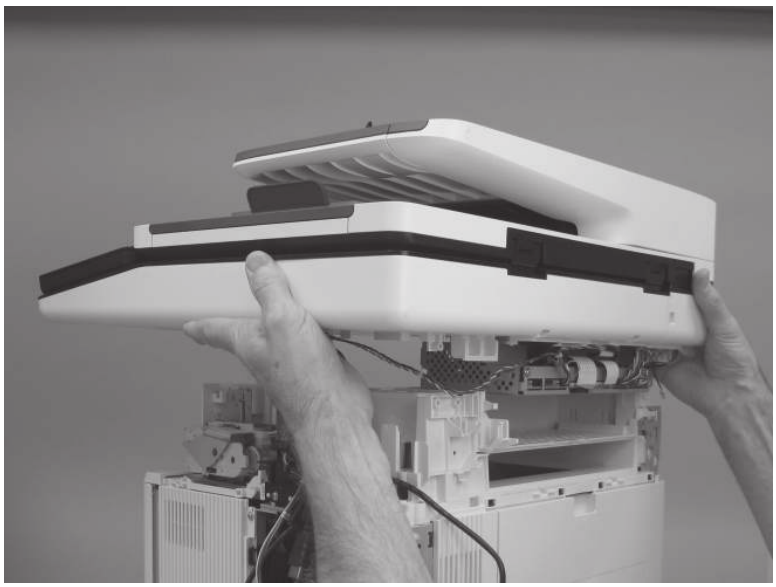
d. Slightly slide the ISA towards the back of the printer to release it.

Figure 1-1056 Slide the ISA towards the back of the printer



e. Remove the ISA.

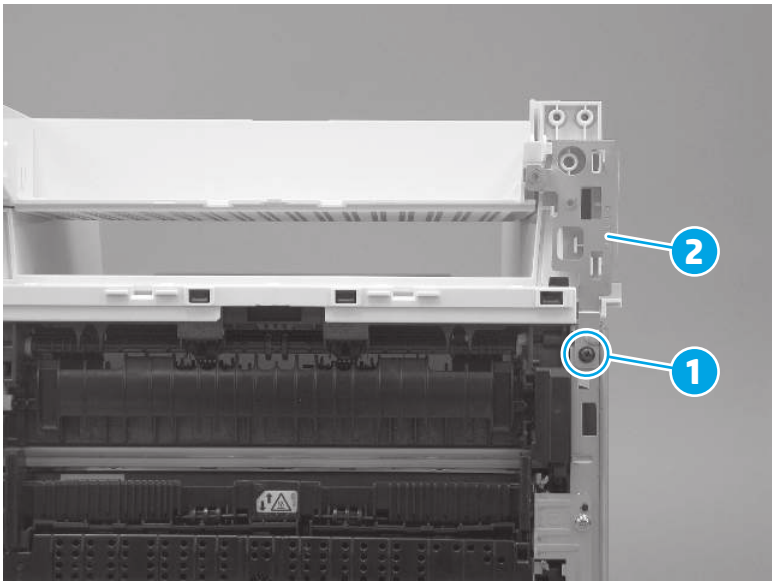
Figure 1-1057 Remove the ISA



16. Remove the top cover (M527/E52545/M528/E52645).

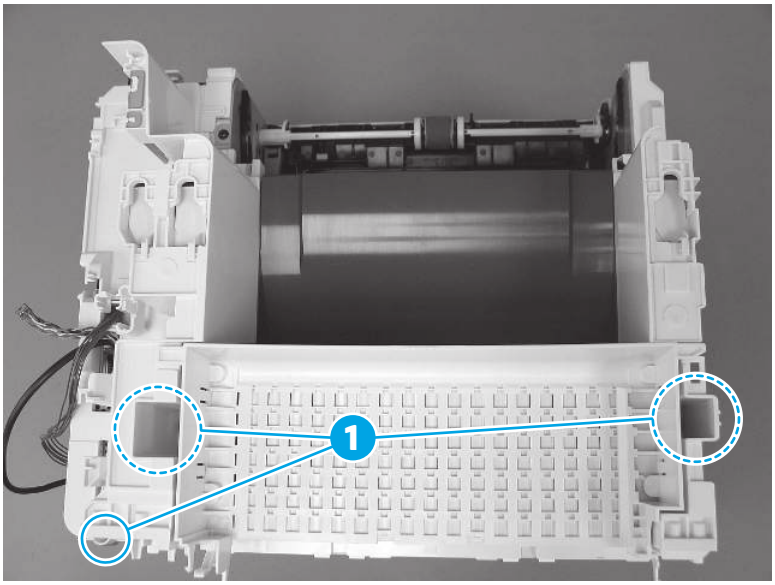
a. At the front right of the printer, remove one screw (callout 1), and then remove the sheet-metal plate (callout 2).

Figure 1-1058 Remove one screw and the plate



b. At the top rear of the printer, remove three screws (callout 1).

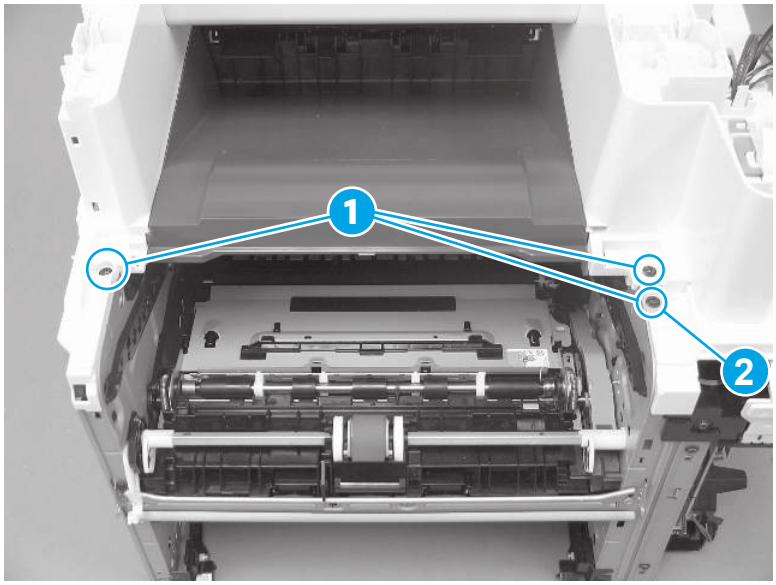
Figure 1-1059 Remove three screws



c. At the top front of the printer, remove three screws (callout 1).

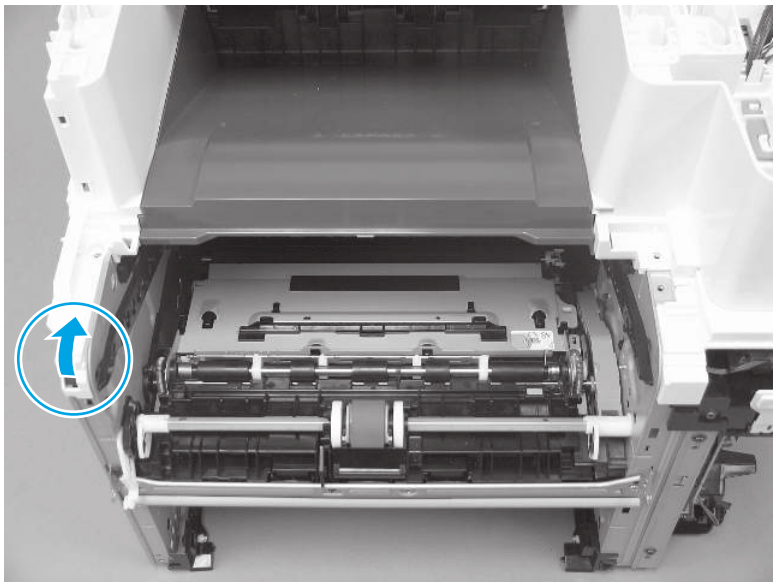
NOTE: The screw (callout 2) on the lower-right portion of the cover is a different color than the other two screws, and is surrounded by sheet-metal. It might appear that this screw does not need to be removed. Remove this screw.

Figure 1-1060 Remove three screws



d. At the front left of the printer, release one boss.

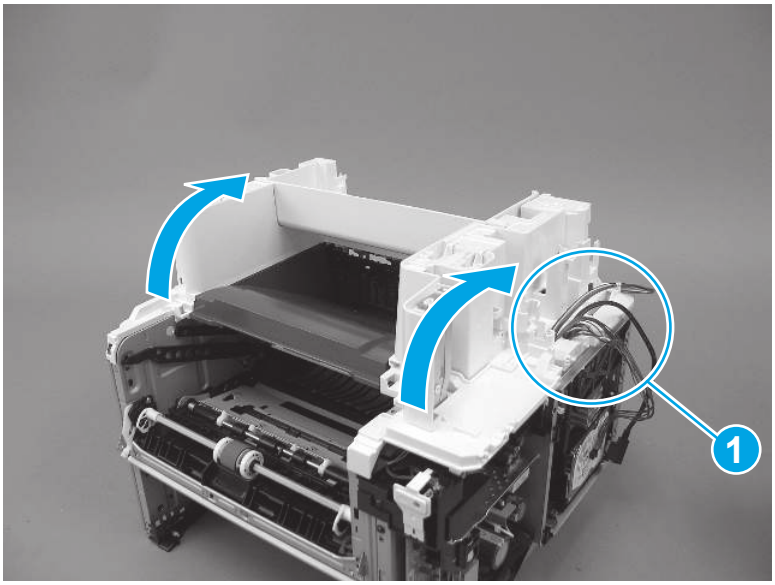
Figure 1-1061 Release one boss



e. Rotate the front of the cover up and away from the printer.

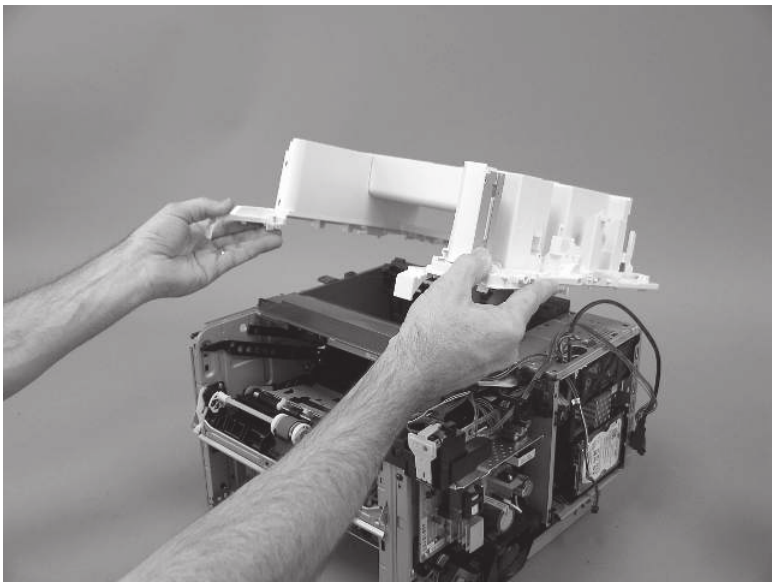
⚠ CAUTION: As the cover is rotated up, carefully pass the cables and wire harnesses the hole in the cover (callout 1).

Figure 1-1062 Rotate the front of the cover up



f. Remove the cover.

Figure 1-1063 Remove the cover

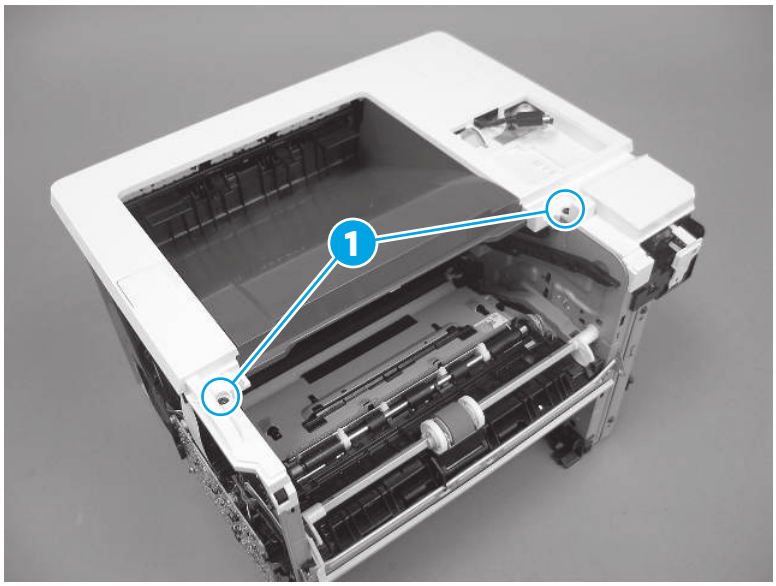


17. Remove the top cover (M501/M506/E50045/M507/E50145).

    The M506x/E50045x is shown in this procedure. However, the steps are correct for all M506/E50045/M507/E50145 models and the M501 printer.

a. Remove two screws (callout 1).

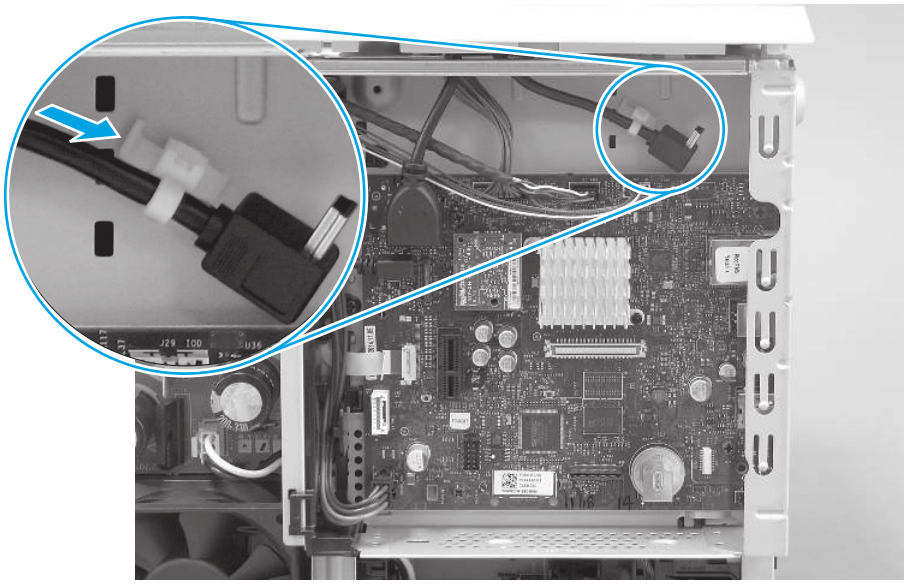
Figure 1-1064 Remove two screws



b. **M506/E50045/ only**: Release one cable retainer from the chassis.

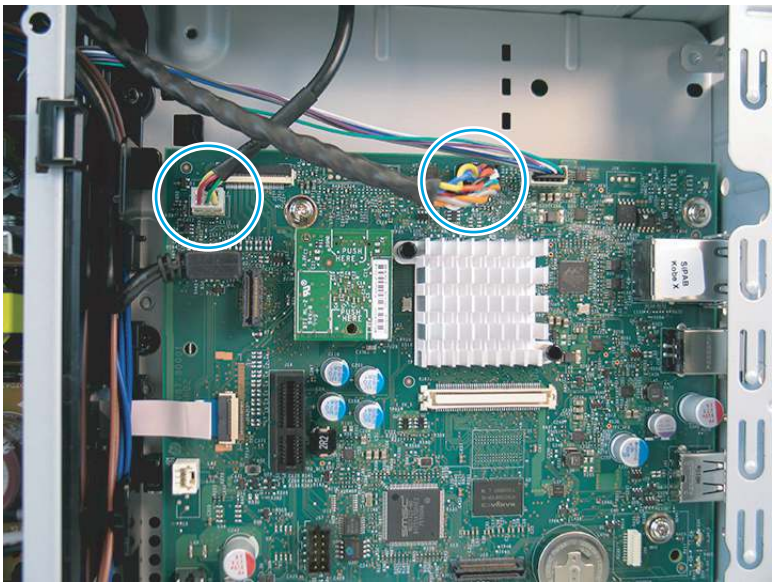
TIP: Depress the tab on the retainer to release it.

Figure 1-1065 Release one cable retainer



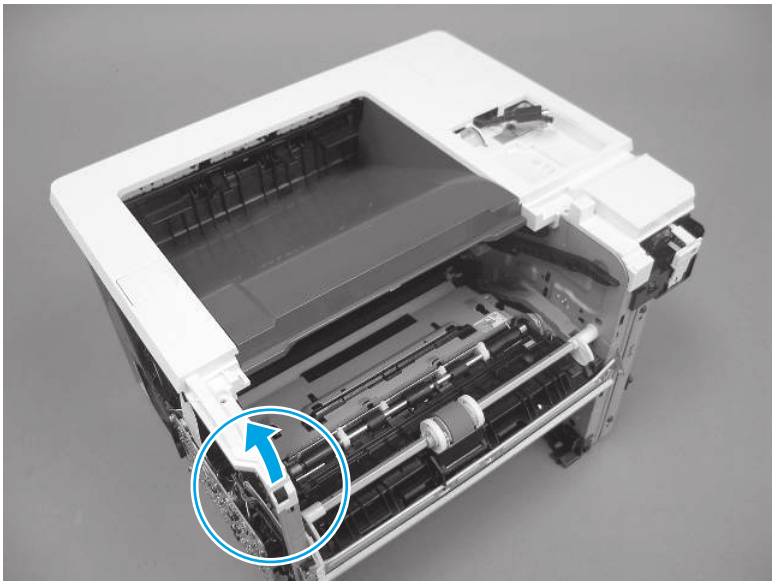
c. **M507/E50145 only**: Disconnect two connectors.

Figure 1-1066 Disconnect two connectors



d. Release one boss.

Figure 1-1067 Release one boss

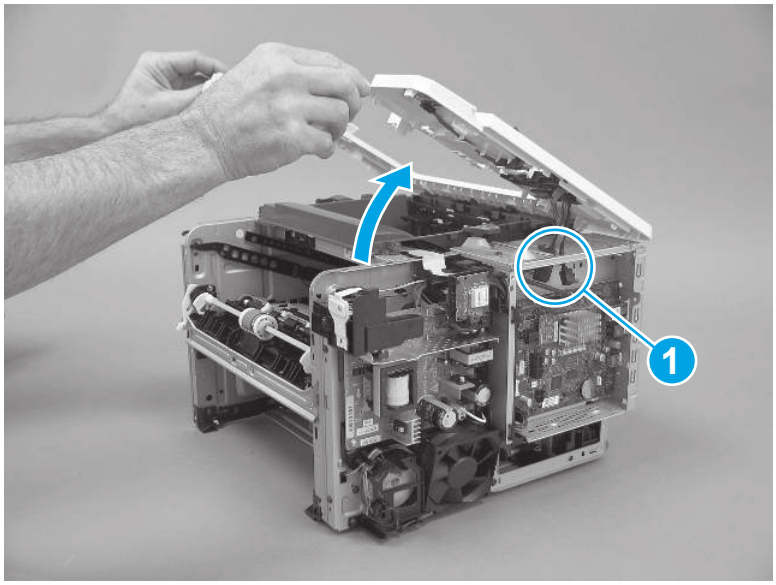


e. **M506/E50045/ only**: Rotate the front of the cover up and away from the printer, and then remove the cover.

⚠ CAUTION: **M506x/E50045x only**: As the cover is rotated up, carefully pass the cables the hole in the chassis (callout 1).

NOTE: **LCD control panel models only**: Disconnect the control panel before removing the cover.

Figure 1-1068 Remove the cover (M506/E50045)



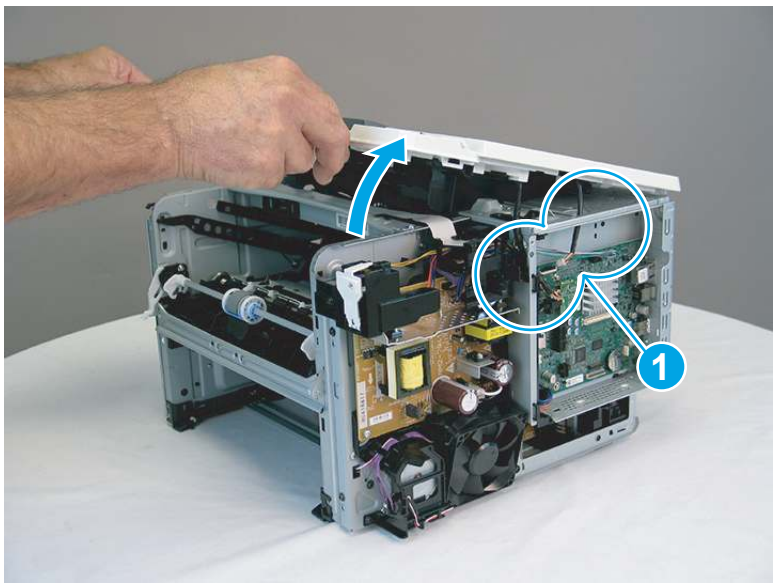
f. M507/E50145only: Rotate the front of the cover up and away from the printer, and then remove the cover.

CAUTION: M507x/E50145x only: As the cover is rotated up, carefully pass the cables the hole in the chassis (callout 1).

IMPORTANT: If the top cover is being replaced, make sure to transfer the WiFi PCA from the discarded cover to the replacement cover.

NOTE: LCD control panel models only: Disconnect the control panel before removing the cover.

Figure 1-1069 Remove the cover (M507/E50145)

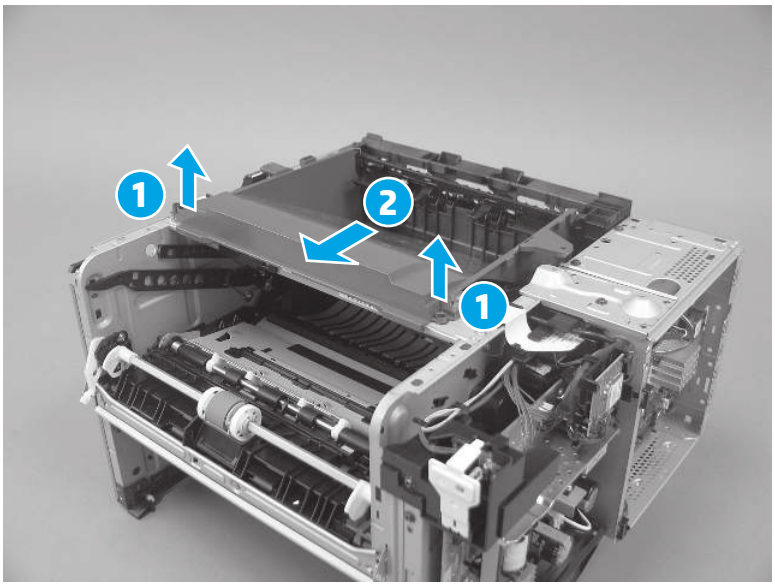


18. Remove the paper delivery tray (output bin).

NOTE: A SFP printer is shown in this section. However, the procedure is correct for all printer models.

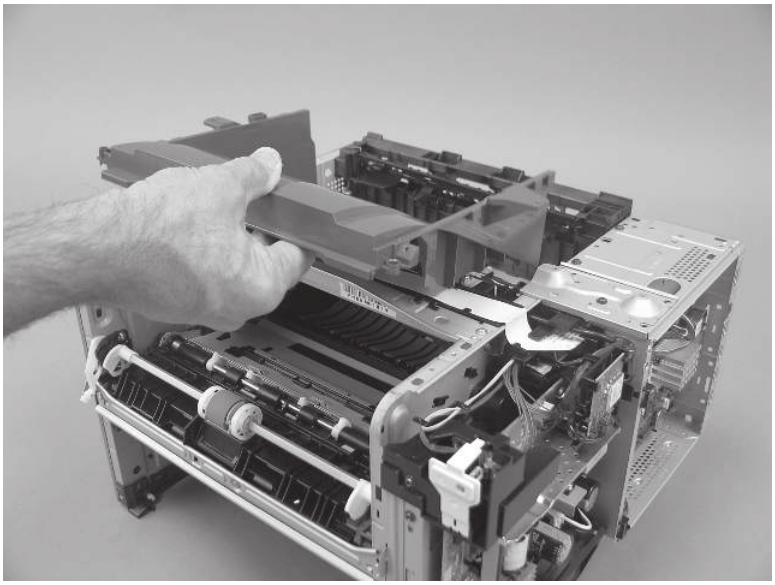
a. Release two tabs (callout 1), and then slide the cover toward the front of the printer (callout 2).

Figure 1-1070 Release two tabs



b. Remove the bin.

Figure 1-1071 Remove he bin

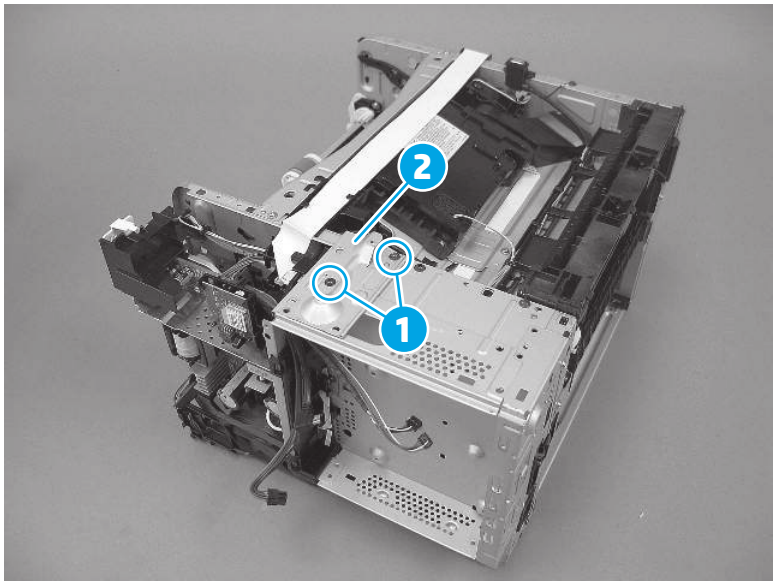


19. Remove the formatter case.

a. **M506/E50045/M507/E50145 only**: Remove two screws (callout 1), and then remove the sheet-metal plate (callout 2).

NOTE: **M507/E50145 only**: The M507/E50145 sheet-metal plate includes a separate black plastic cable guide (not shown). Do not lose the guide when removing the plate.

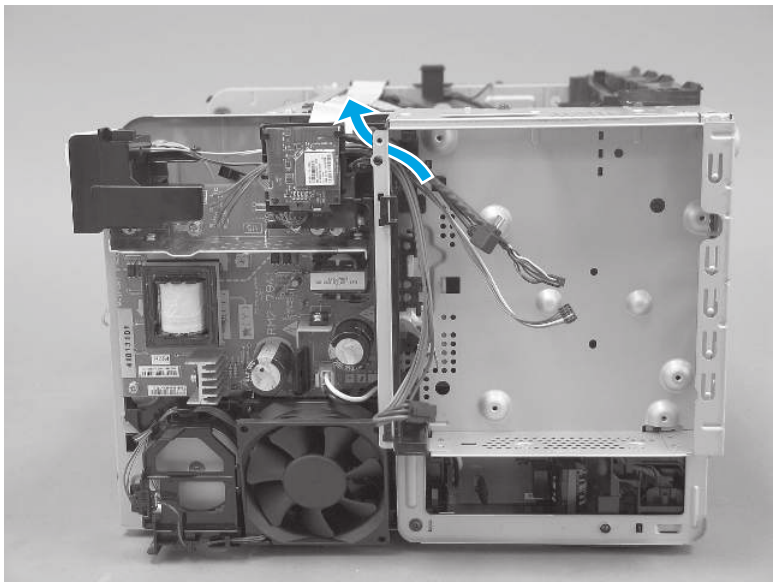
Figure 1-1072 Remove the sheet-metal plate



b. Carefully pass all cables and wire harnesses through the opening in the formatter case.

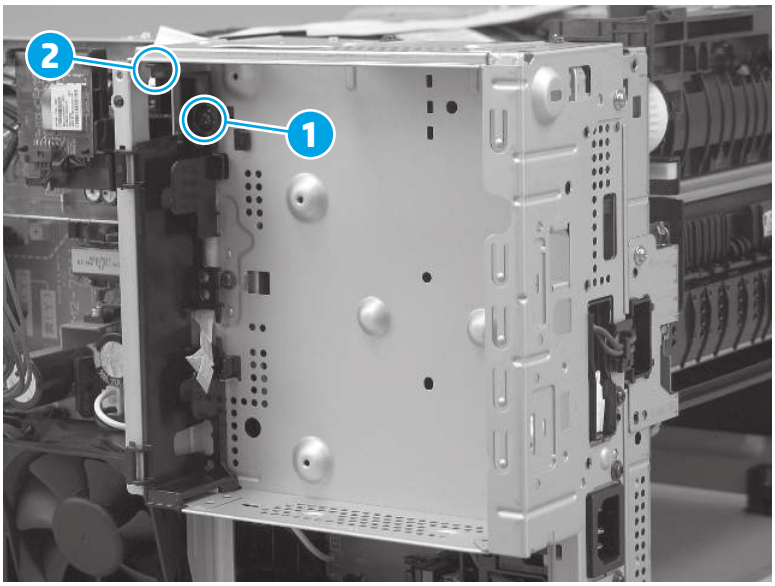
NOTE: A SFP printer is shown in this section. However, the procedure is correct for all printer models.

Figure 1-1073 Pass all cables and wire harnesses through the opening



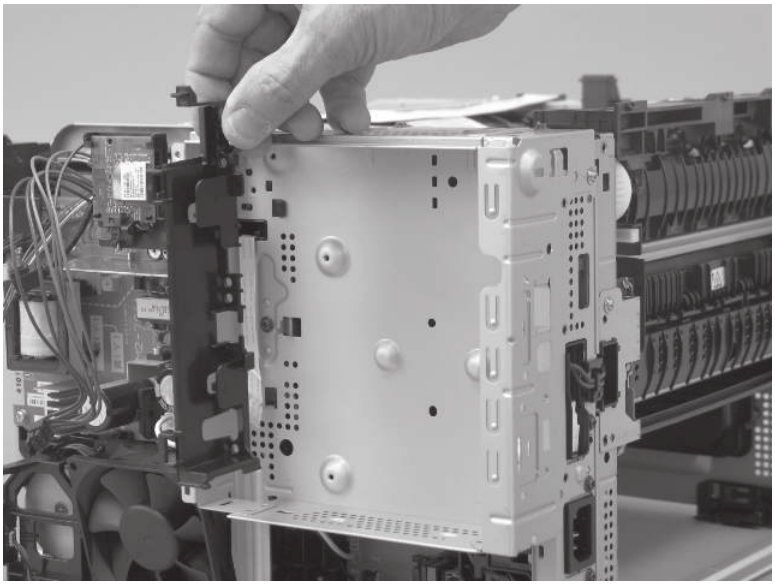
c. Remove one screw (callout 1), and then push down on one tab (callout 2) to release it.

Figure 1-1074 Remove one screw



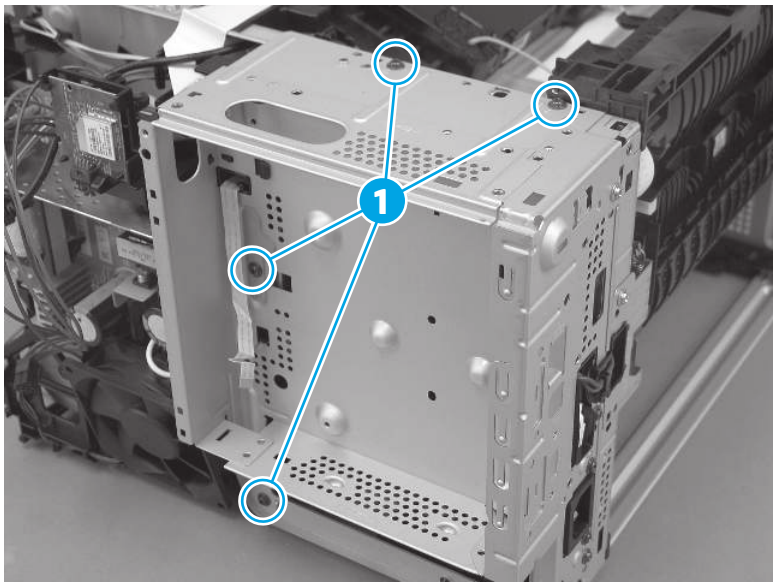
d. Remove the guide.

Figure 1-1075 Remove the guide



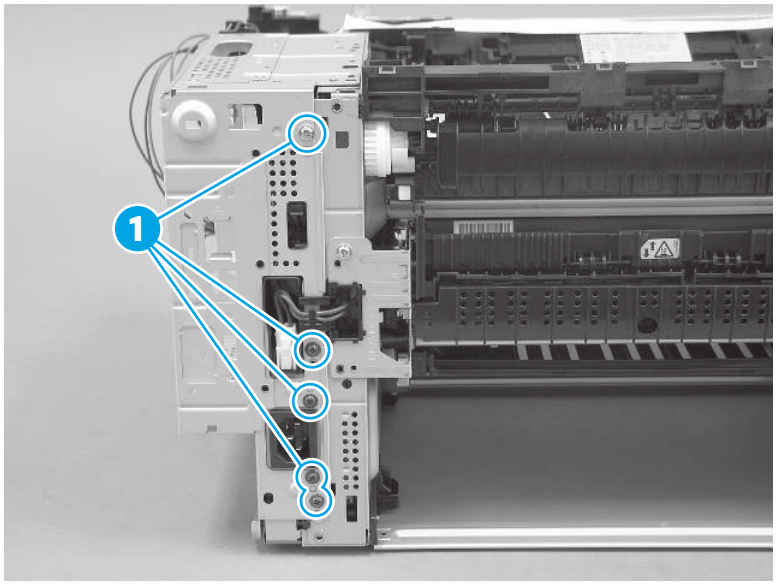
e. Remove four screws (callout 1).

Figure 1-1076 Remove four screws



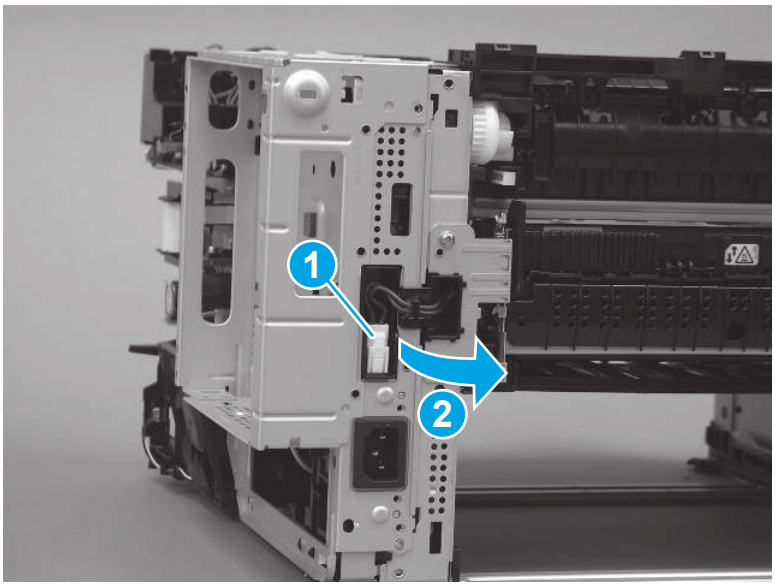
f. Remove five screws (callout 1).

Figure 1-1077 Remove five screws



g. Disconnect one connector (callout 1), and then move the guide out of the way (callout 2).

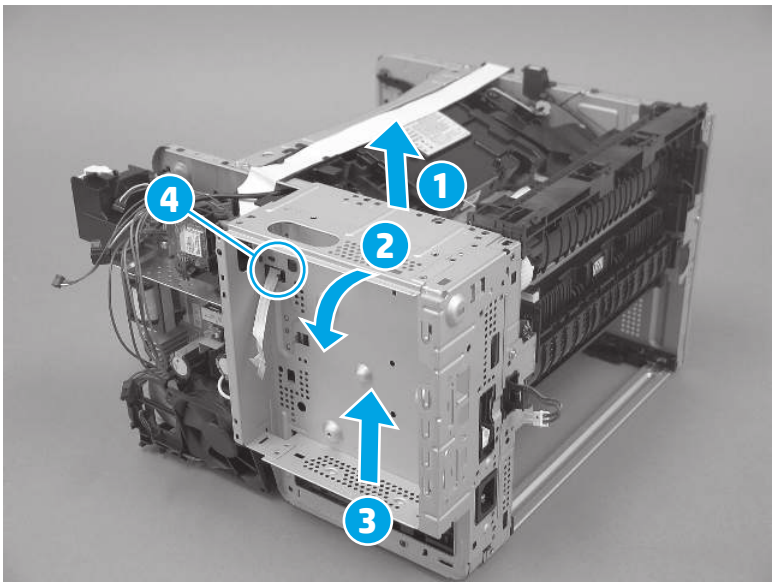
Figure 1-1078 Disconnect one connector



h. Slightly lift up the formatter case (callout 1), rotate the top of the case away from the chassis (callout 2), and then lift up the case to release it (callout 3).

CAUTION: Pass the FFC through the opening (callout 4) in the formatter while removing the case.

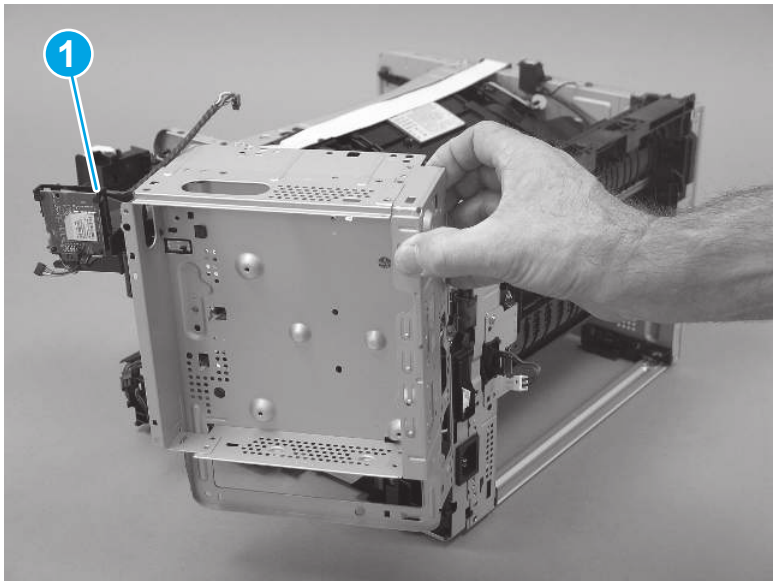
Figure 1-1079 Release the formatter case



i. Remove the formatter case.

NOTE: **WiFi models only**: If the formatter case is being replaced, make sure that the WiFi PCA and bracket (callout 1) are transferred to the replacement case.

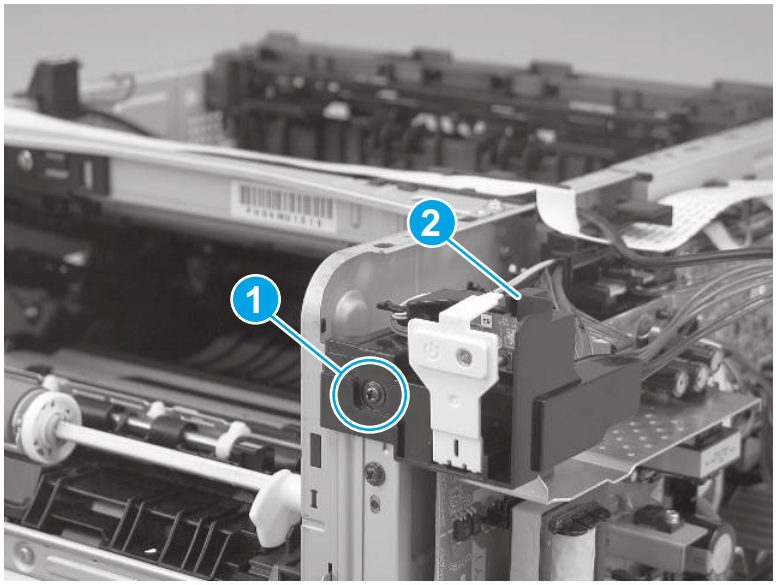
Figure 1-1080 Remove the formatter case



20. Remove the LVPS.

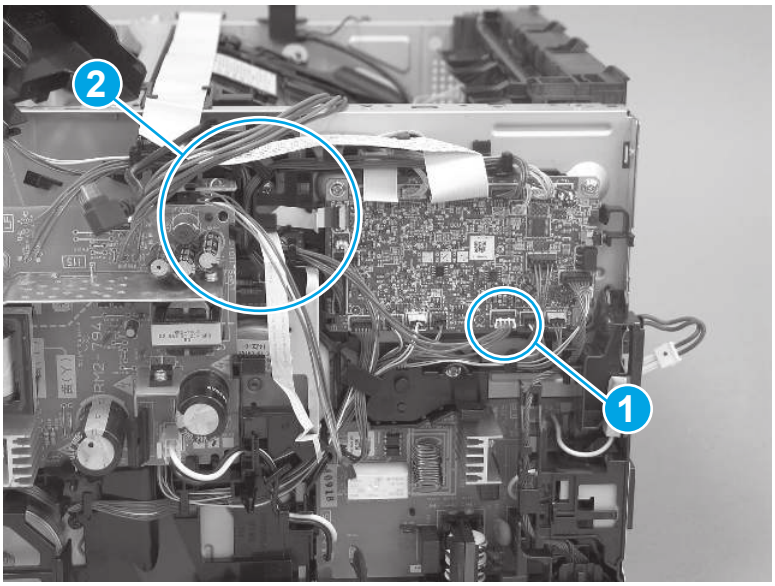
    a. Remove one screw (callout 1), and then move the power-switch assembly (callout 2) out of the way.

Figure 1-1081 Move the power-switch assembly



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

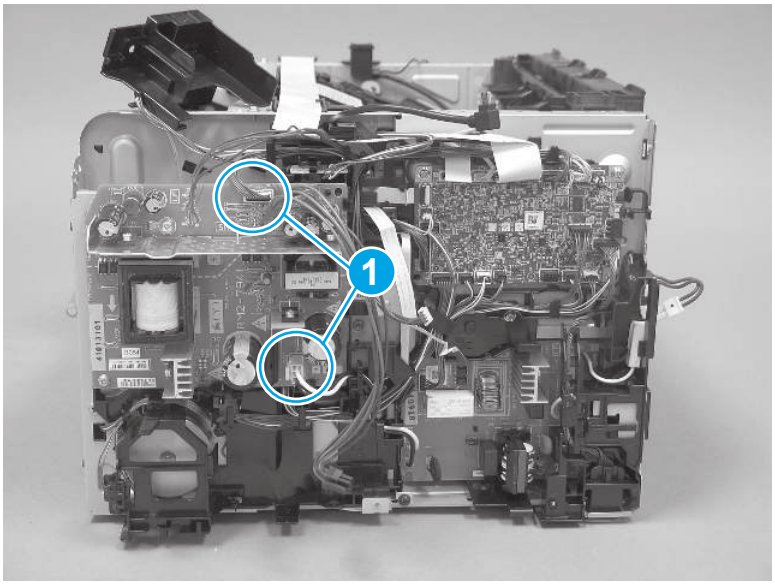
Figure 1-1082 Disconnect one connector



c. Disconnect two connectors (callout 1).

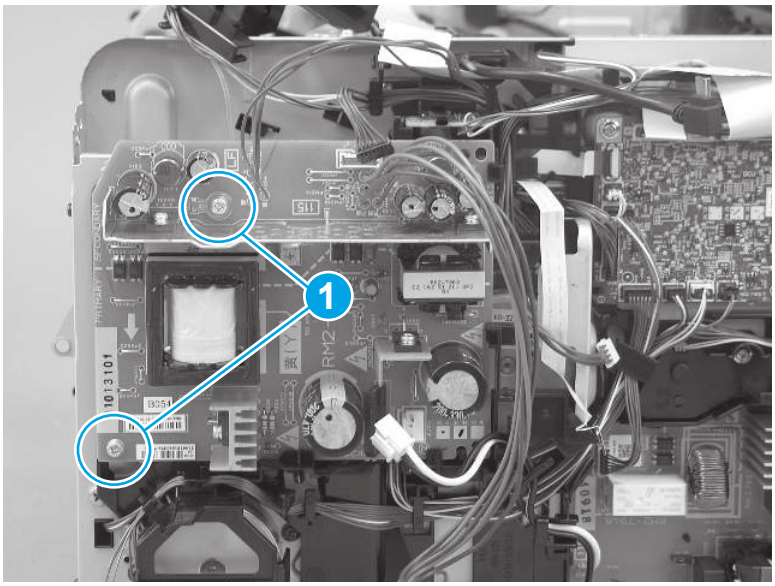
TIP: Squeeze the locking lever on the lower connector to release it.

Figure 1-1083 Disconnect two connectors



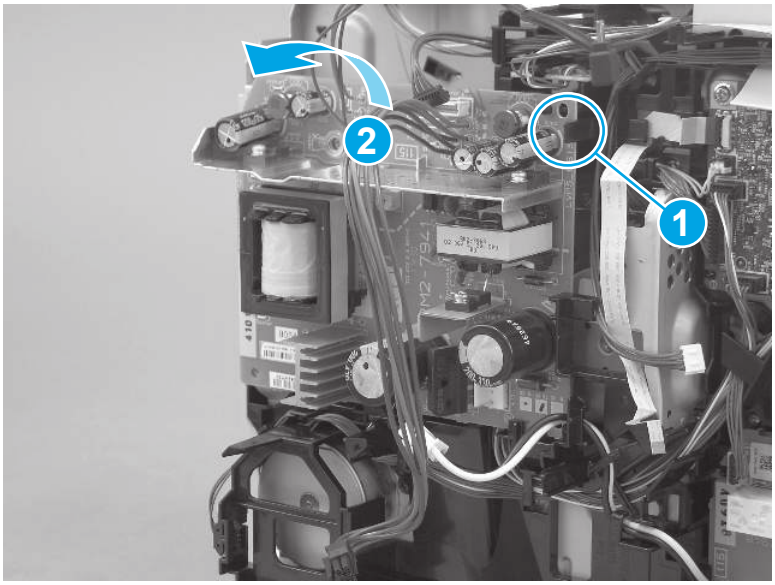
d. Remove two screws (callout 1).

Figure 1-1084 Remove two screws



e. Release one tab (callout 1), and then rotate the top of the LVPS out and away from the printer (callout 2).

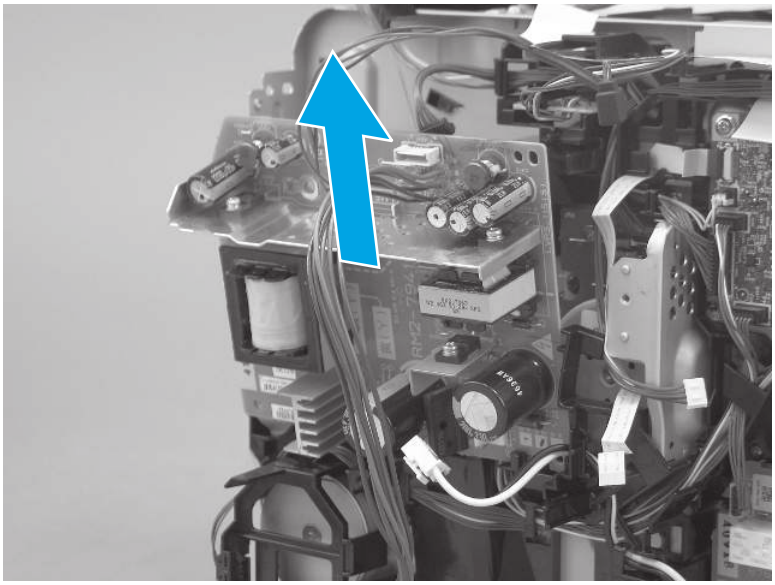
Figure 1-1085 Release one tab



f. Slide the LVPS up and away from the printer to release it.

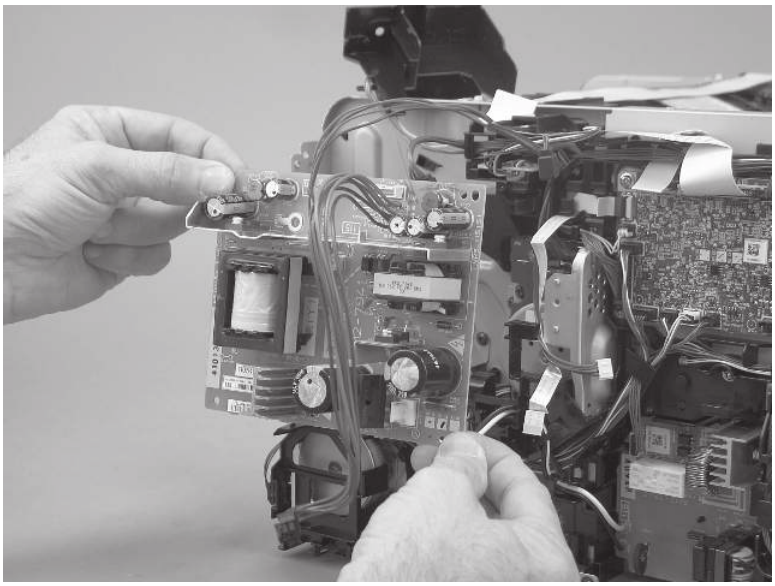
Reinstallation tip: Push down on the LVPS to make sure that it is fully seated on the holder.

Figure 1-1086 Release the LVPS



g. Remove the LVPS.

Figure 1-1087 Remove the LVPS



21. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the

sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Removal and replacement: Main Motor M1

Learn how to remove and replace the Main Motor M1.

IMPORTANT: It is recommended to bring the printer back to the shop to perform the following removal and replacement repairs.

Mean time to repair: 60 minutes

Service level: Hard

Before performing service

Turn the printer power off

- Disconnect the power cable.

WARNING! To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-43 Part information

Part number	Part description
RM2-8684-000CN	Main Motor M1

Required tools

- Small flat-blade screwdriver
- #2 Phillips screwdriver with a magnetic tip and a 152 mm (6 in) shaft length

After performing service

Turn the printer power on

- Connect the power cable.

- Use the power switch to turn the power on.

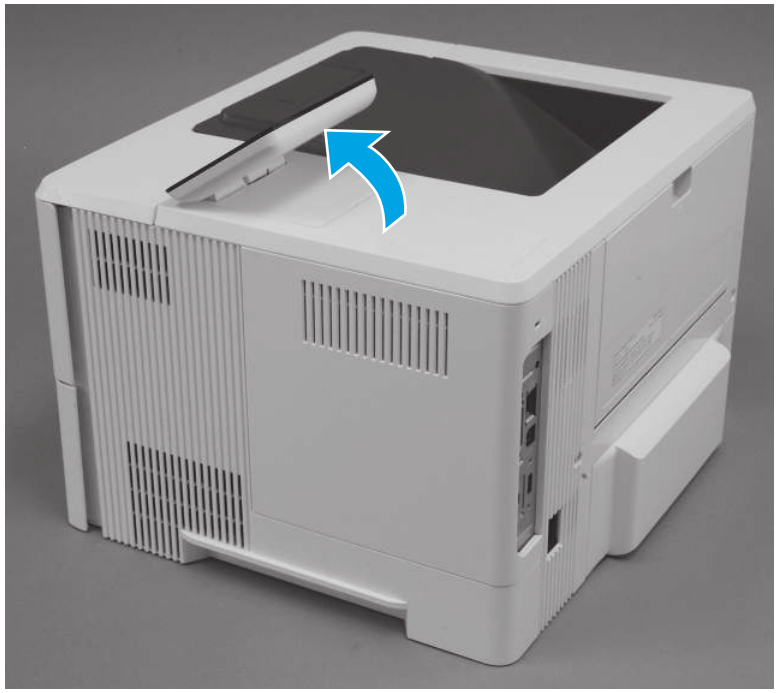
Post service test

Make sure that the printer initializes to a **Ready** state.

1. Remove the control panel (M506x/E50045x/M507x/E50145x).

   a. Tilt the control panel to the fully raised position.

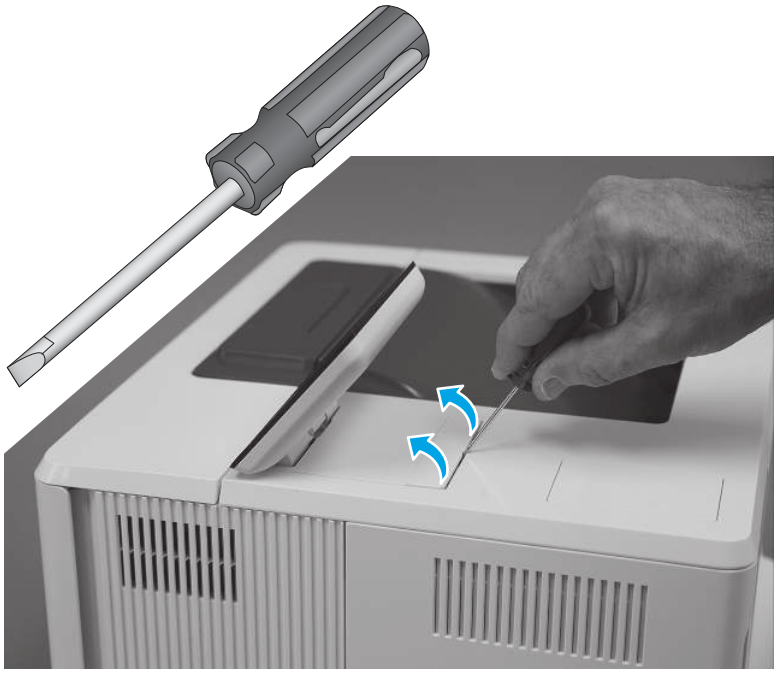
   Figure 1-1088 Tilt the control panel up

   b. Use the small flat-blade screwdriver supplied in the kit to release the control-panel screws cover, and then remove the cover.

   TIP: The screwdriver has a reversible shaft. Simply pull the shaft out of the handle, and then reinstall it with the desired end facing out.

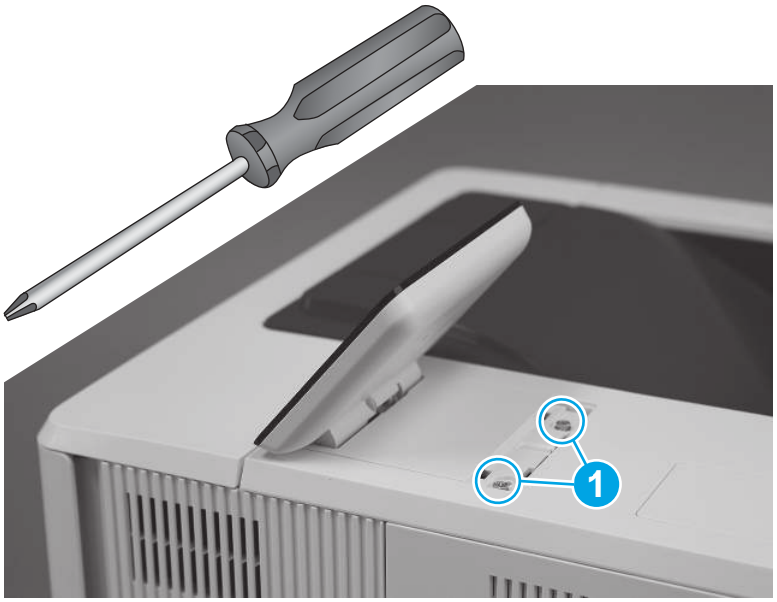
Figure 1-1089 Remove the cover



c. Use the small Phillips screwdriver supplied in the kit to remove two screws (callout 1).

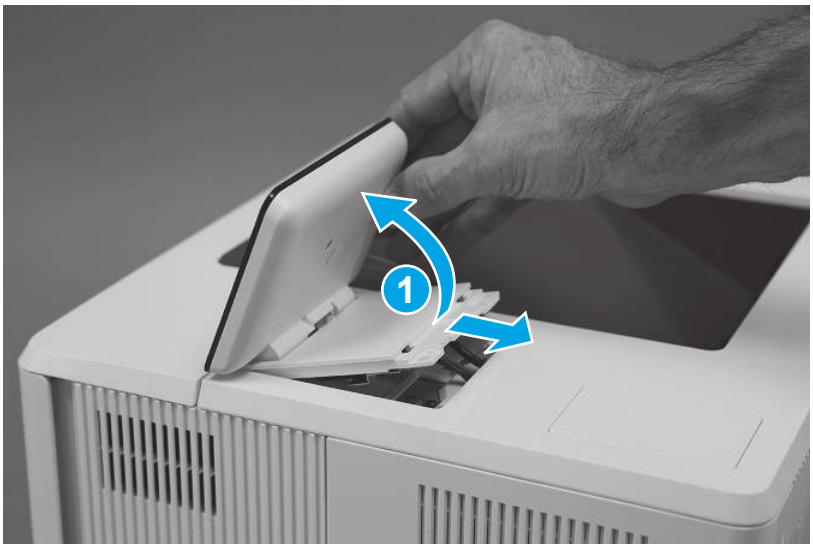
IMPORTANT: Store the screws in a secure place where they cannot fall down into the printer.

Figure 1-1090 Remove two screws



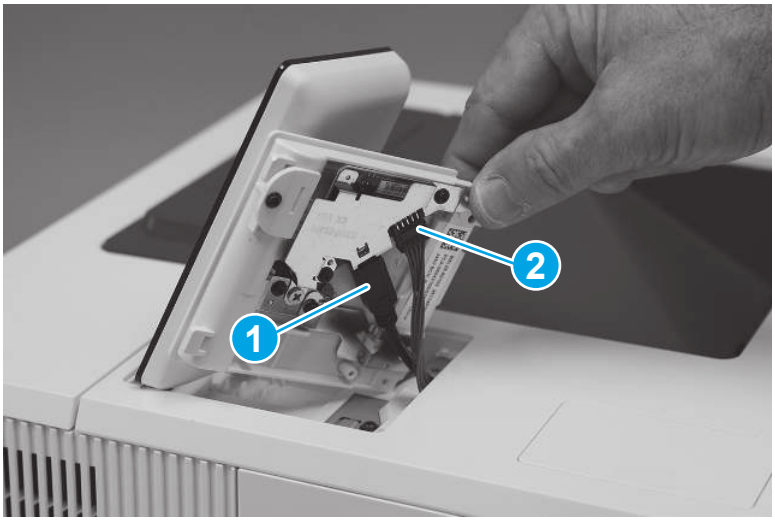
d. Turn the control panel over (callout 1), to gain access to the bottom side.

Figure 1-1091 Turn the control panel over



e. **M506/E50045 only**: Disconnect one HDMI cable (callout 1), one connector (callout 2), and then remove the control panel.

Figure 1-1092 Remove the control panel (M506/E50045)



f. **M507/E50154 only**: If the formatter cover has not been removed, remove it now. Disconnect one flat-flexible cable (FFC).

CAUTION: ESD sensitive part.

NOTE: This connector is a zero-insertion force (ZIF) connector. Open the locking clip. The clip is easily dislodged and lost.

Figure 1-1093 Disconnect one FFC (M507/E50145)

g. **M507/E50145 only**: Pass the FFC through the opening in the cover, and then remove the control panel.

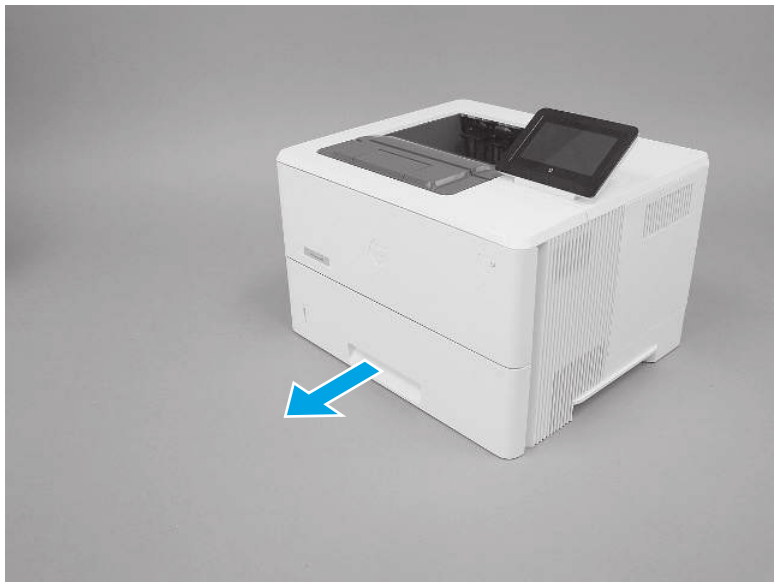
⚠ **CAUTION:** ESD sensitive part.

Figure 1-1094 Remove the control panel (M507/E50145)

2. Remove the tray.

a. Pull the tray straight out of the printer until it stops.

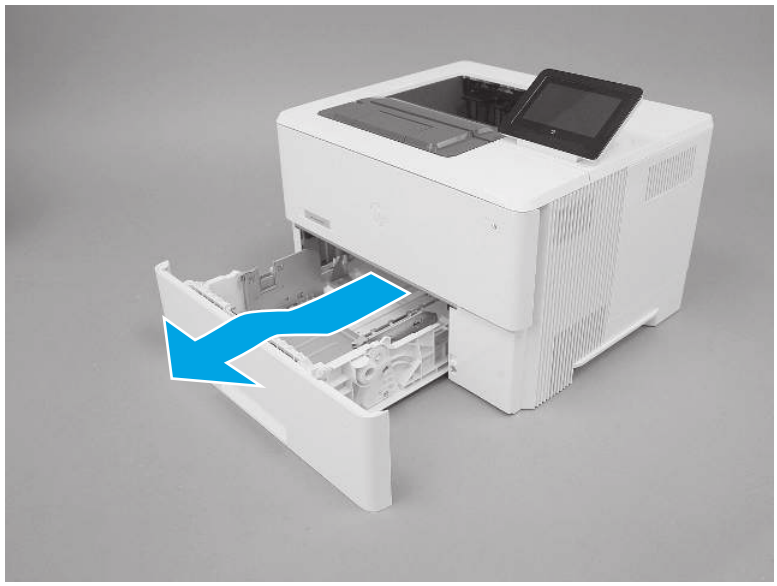
Figure 1-1095 Pull the tray out until it stops



b. Lift the front of the tray, and then pull it out of the printer to remove it.

NOTE: If the tray has Fixed Tray Guides installed and are still required, move the hardware to new tray. If necessary, order new kit: 3GY19-67901 Kit-Fixed Tray Guide. Only one kit required per engine.

Figure 1-1096 Release and remove the tray

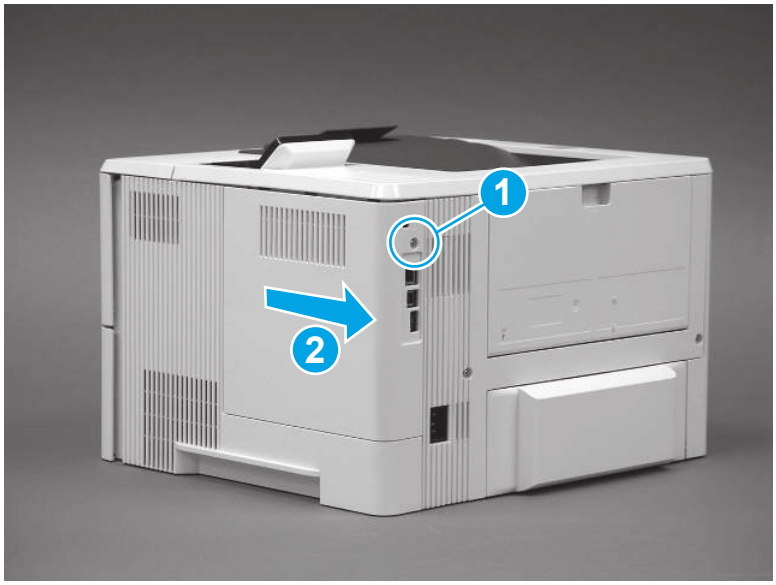


3. Remove the formatter cover.

▲ Do one of the following:

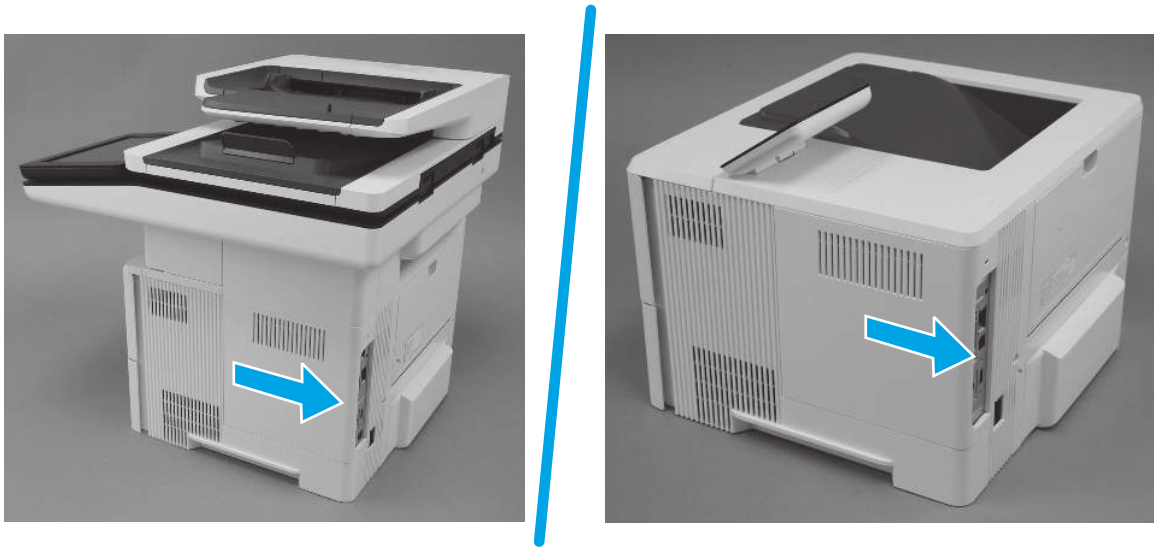
- M501: Remove one screw (callout 1), and then slide the cover toward the rear of the printer to remove it (callout 2).

Figure 1-1097 Remove the formatter cover (M501)



- M506/E50045/M507/E50145/M527/E52545/M528/E52645: Slide the cover toward the rear of the printer to remove it.

  Figure 1-1098 Remove the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)

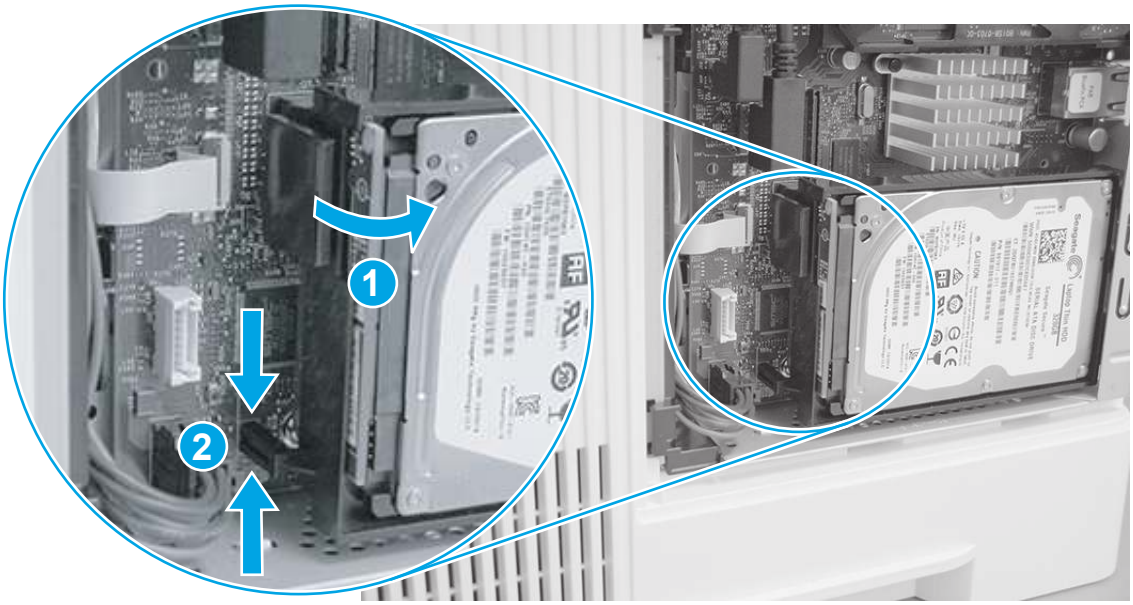


4. Remove the hard-disk drive (HDD models).

⚠ CAUTION: ESD sensitive part.

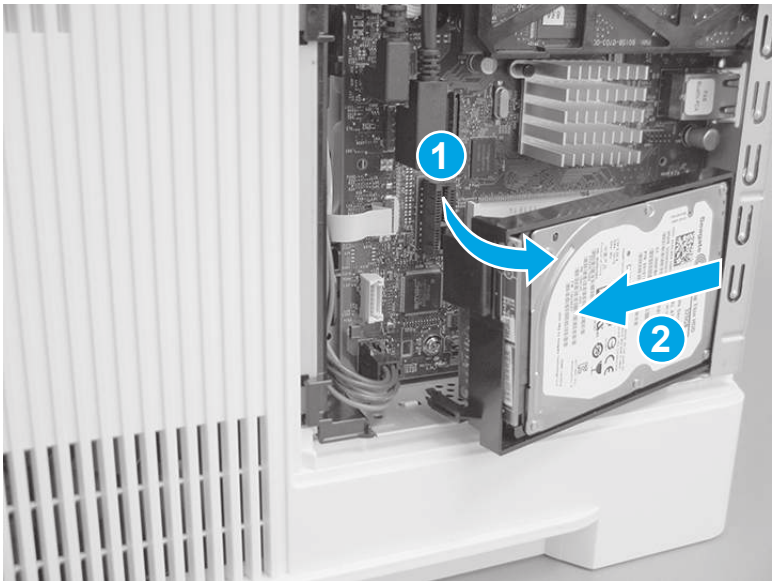
a. Release the locking connector (callout 1), and then pinch the retainer (callout 2) to release it.

Figure 1-1099 Release the HDD



b. Rotate the connector end of the HDD out and away from the formatter (callout 1), and then slide it as shown (callout 2) to remove it.

Figure 1-1100 Remove the HDD

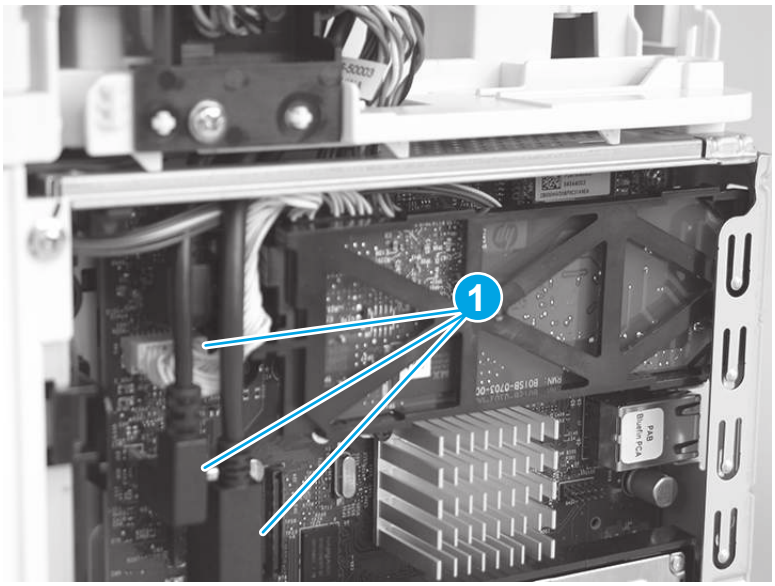


5. Remove the fax PCA (M527/E52545/M528/E52645 fax models).

⚠ CAUTION: ESD-sensitive part.

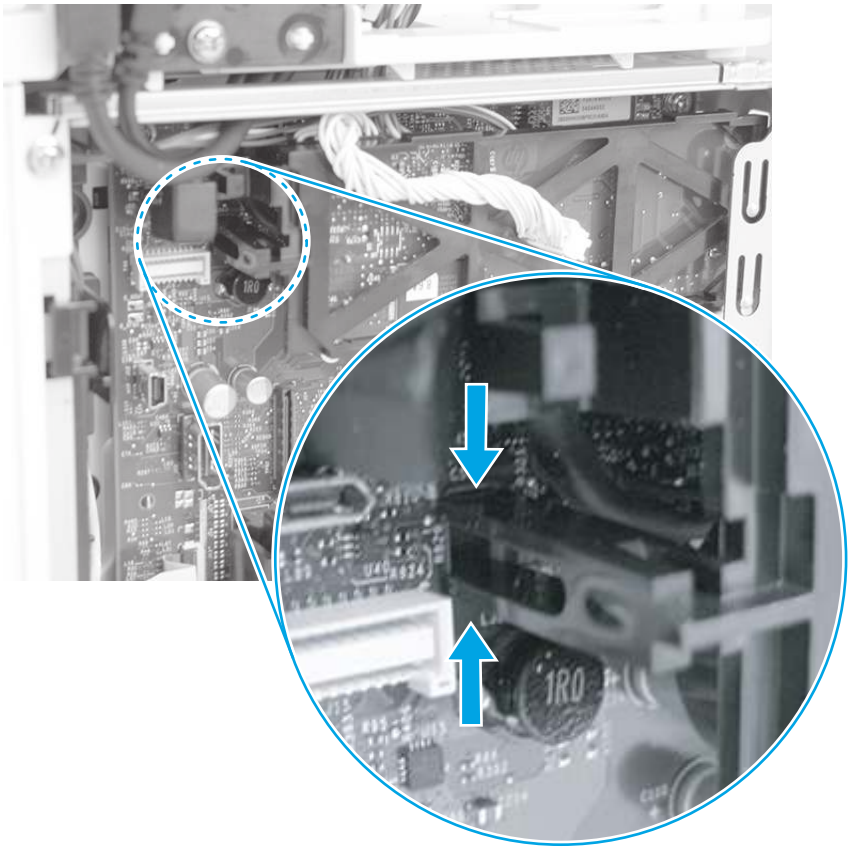
a. Disconnect three connectors (callout 1).

Figure 1-1101 Disconnect three connectors



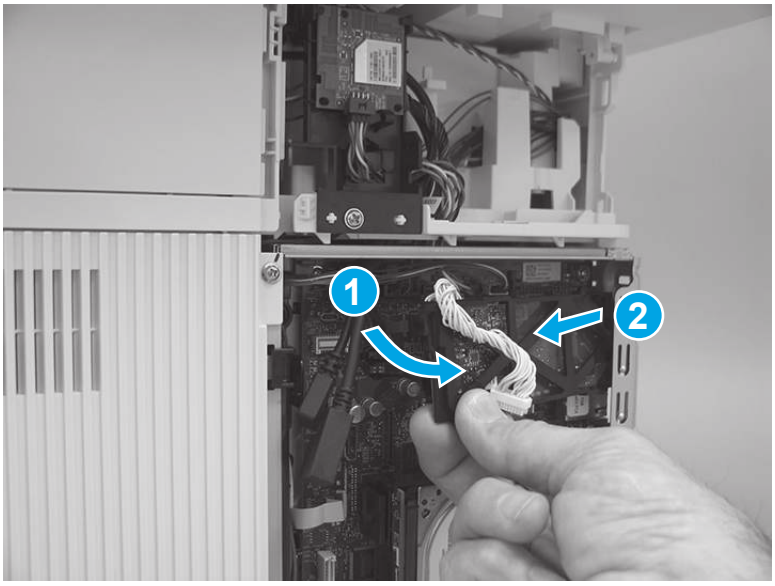
b. Pinch the retainer to release it.

Figure 1-1102 Release the fax PCA



c. Rotate the connector end of the fax PCA out and away from the formatter (callout 1), and then slide it as shown (callout 2) to remove it.

Figure 1-1103 Remove the fax PCA



6. Remove the formatter.

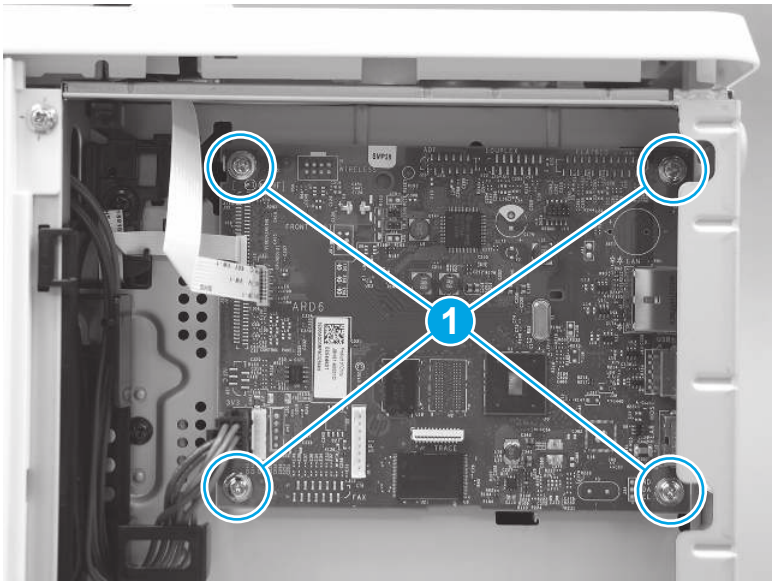
CAUTION: Never remove and then install a replacement DCC and formatter at the same time. Doing so will cause the printer to become unstable.

If a replacement DCC and formatter must be installed, first remove and install the formatter. Test operate the printer, and then if necessary install a replacement DCC.

IMPORTANT: Take note of all empty connectors on the PCA before disconnecting any wire harnesses or flat-flexible cables (FFCs). Some empty connectors might not be visible until other items—like the hard-disk drive—are removed, so pay close attention while removing the formatter and accessory items.

a. **M501**: Disconnect all of the connectors and FFCs, remove four screws (callout 1), and then remove the formatter.

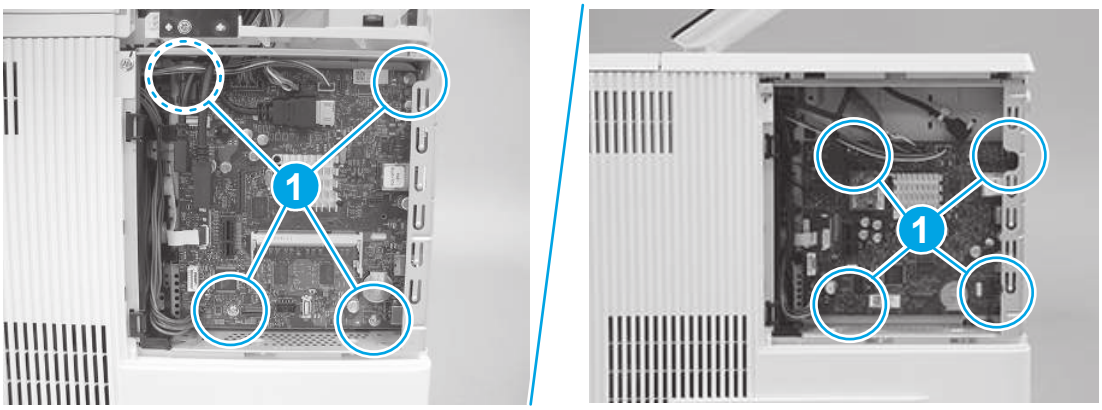
Figure 1-1104 Remove the formatter (M501)



b. **M506/E50045/M507/E50145/M527/E52545/M528/E52645**: Disconnect all of the connectors and FFCs, remove four screws (callout 1), and then remove the formatter.

IMPORTANT: Take note of all empty connectors on the formatter before disconnecting any wire harnesses or flat-flexible cables (FFCs). Some empty connectors might not be visible until other items —like the hard-disk drive—are removed, so pay close attention while removing the formatter and accessories items.

Figure 1-1105 Remove the formatter (M506/E50045/M507/E50145/M527/E52545/M528/E52645)

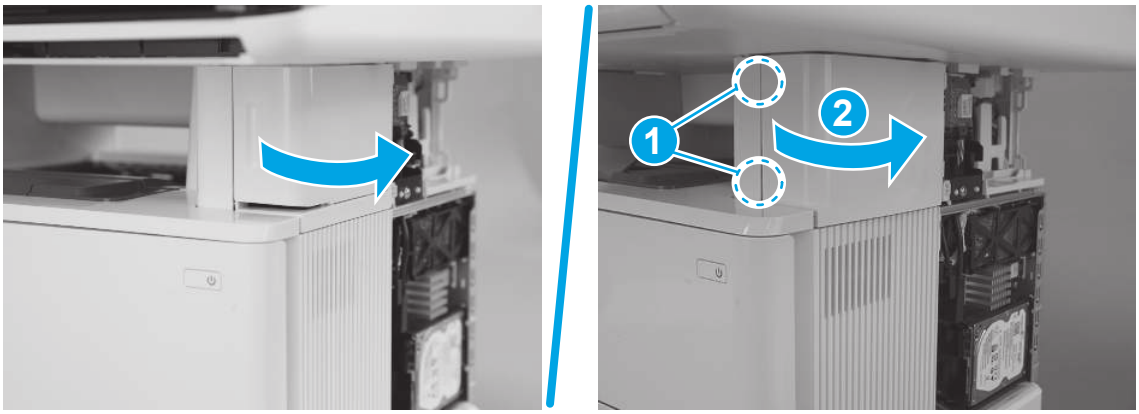


7. Remove the stapler door or stapler blank cover (M527/E52545/M528/E52645).

a. Do one of the following:

- **Stapler models**: Open the stapler door.
- **Non-stapler models**: Use a small flat-blade screw driver to release two tabs (callout 1), and then rotate the cover away from the printer (callout 2).

Figure 1-1106 Open the door or release the cover



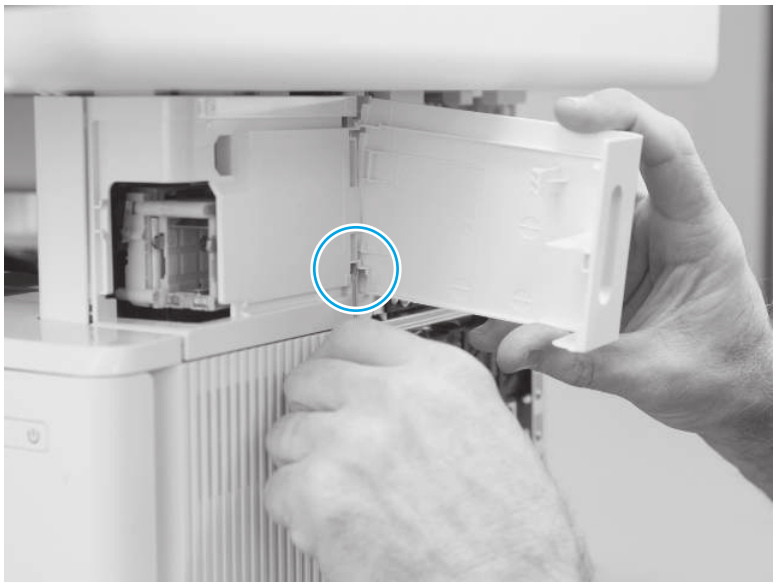
b. Do one of the following:

- **Stapler models**: Use a small flat-blade screwdriver to release the upper hinge.
- **Non-stapler models**: Slide the cover toward the front of the printer to remove it.

Figure 1-1107 Release the upper hinge or remove the cover

c. **Stapler models**: Use a small flat-blade screwdriver to release the lower hinge.

Figure 1-1108 Release the lower hinge



d. **Stapler models**: Remove the door.

Figure 1-1109 Remove the door

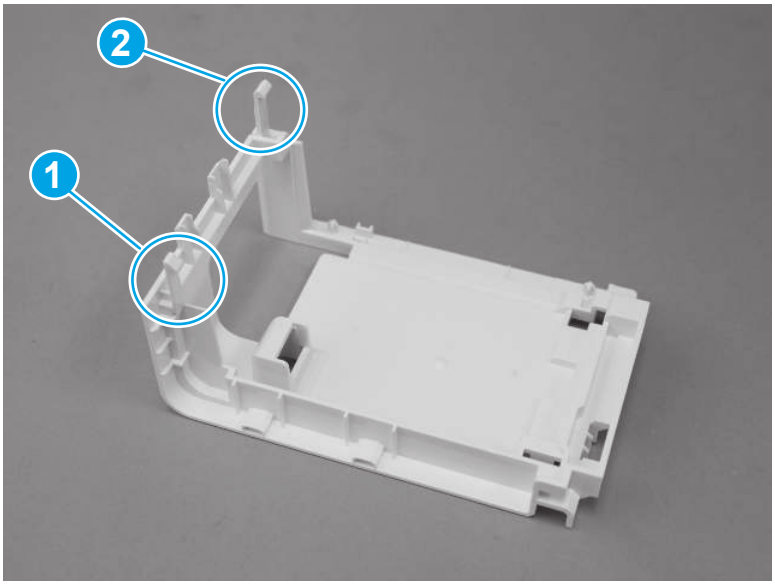
8. Remove the stapler stationary (inner) cover (M527/E52545/M528/E52645).

NOTE: Stapler models only.

a. Before proceeding, take note of the locations of the upper tab (callout 1) and the lower tab (callout 2) on the stapler stationary (inner) cover.

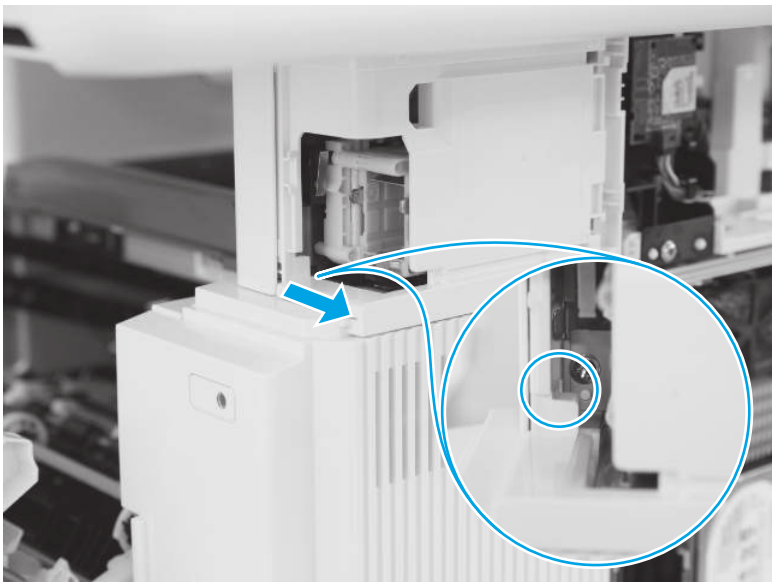
Reinstallation tip: When reinstalling the cover, take note of the location of the tabs.

Figure 1-1110 Locate the tabs



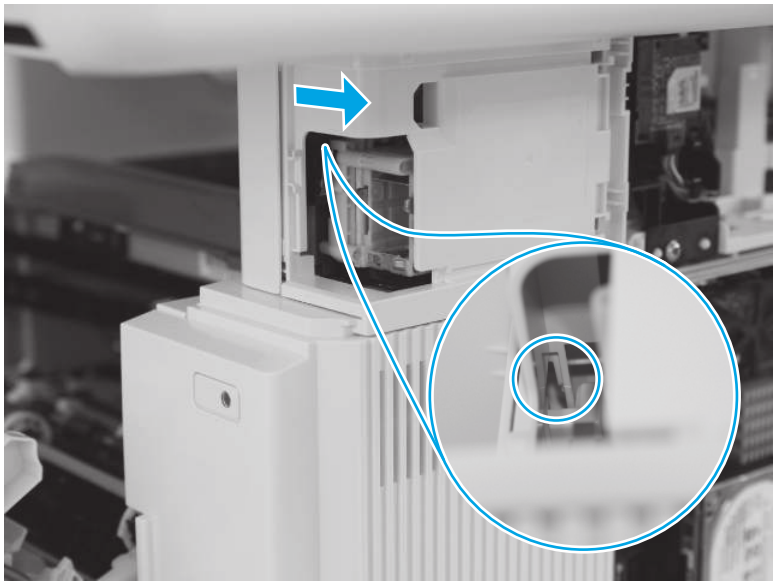
b. Use a long-shaft small flat-blade screwdriver to release the lower tab.

Figure 1-1111 Release one tab



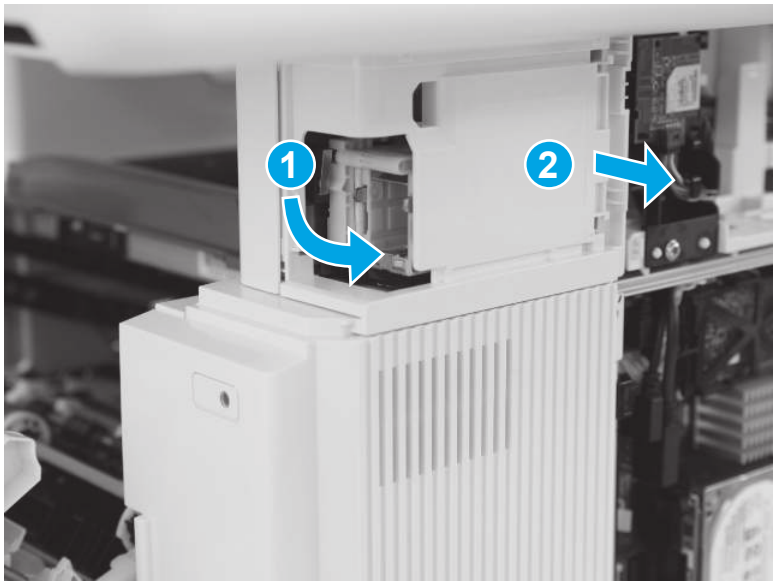
c. Use a long-shaft small flat-blade screwdriver to release the upper tab.

Figure 1-1112 Release one tab



d. With the tabs disengaged the front of the cover is released. Rotate the front of the cover away from the printer (callout 1) to release the rear of the cover (callout 2), and then remove it.

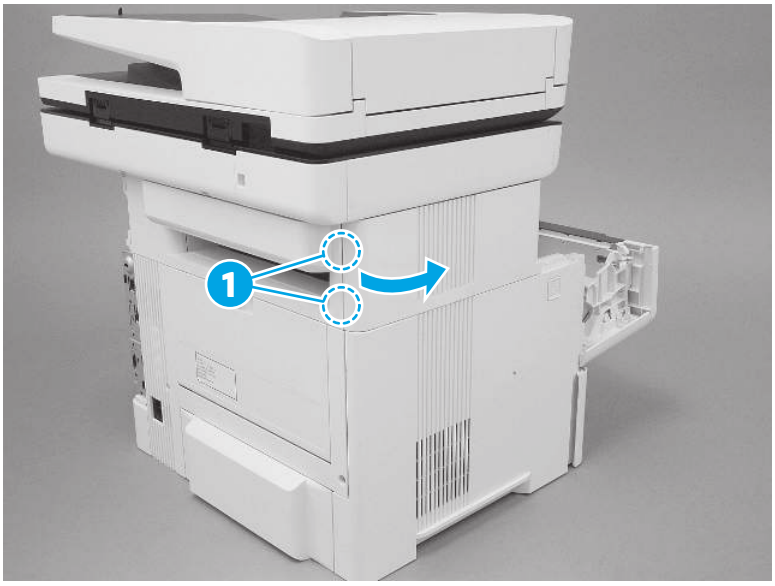
Figure 1-1113 Remove the cover



9. Remove the top-left cover (M527/E52545M528/E52645).

a. Open the toner-cartridge door, release two tabs (callout 1), and then rotate the rear edge of the cover away from the printer.

Figure 1-1114 Release two tabs



b. Continue to rotate the cover away from the printer to release two more tabs at the middle of the cover.

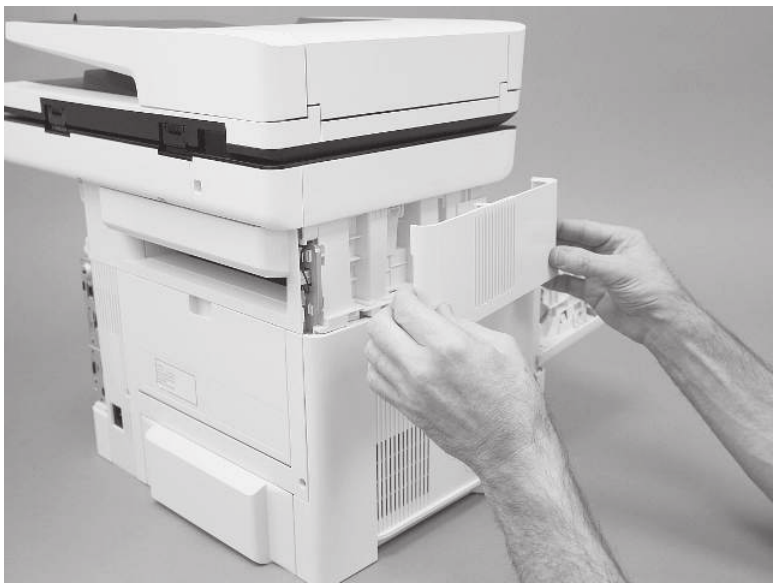
Figure 1-1115 Release two tabs

c. Slide the cover toward the rear of the printer to release two bosses at the front of the cover.

Figure 1-1116 Slide the cover

d. Remove the cover.

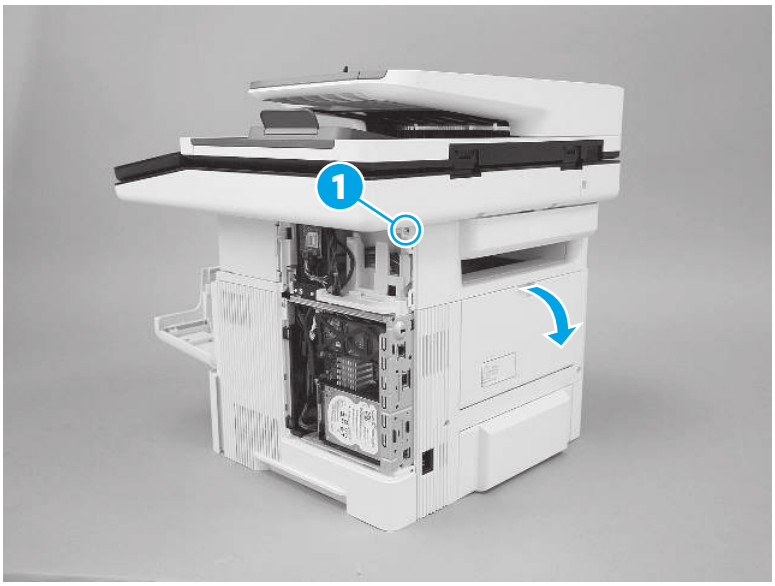
Figure 1-1117 Remove the cover



10. Remove the top-rear cover (M527/E52545/M528/E52645).

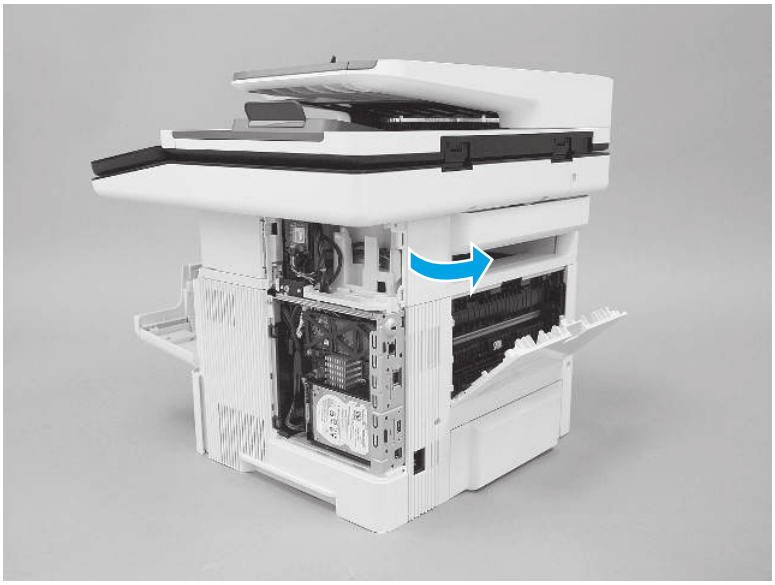
a. Remove one screw (callout 1), and then open the rear door.

Figure 1-1118 Remove one screw



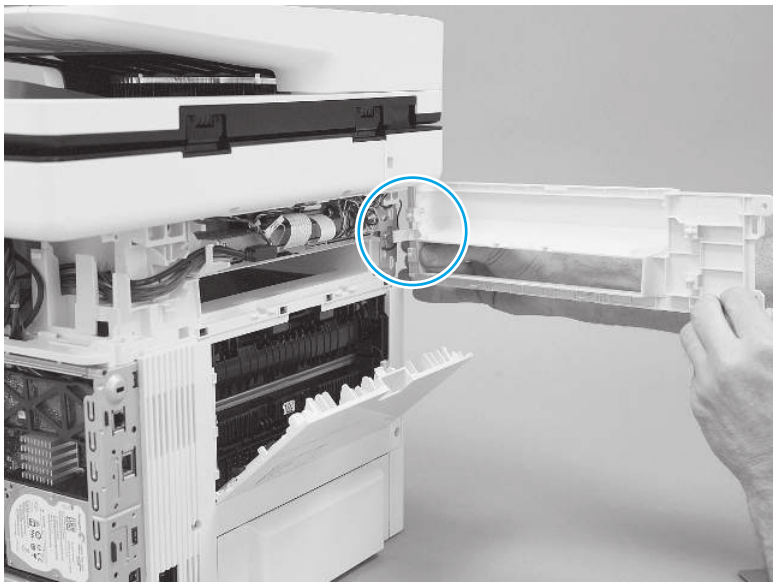
b. Rotate the exposed edge of the cover away from the printer (as shown).

Figure 1-1119 Rotate the cover



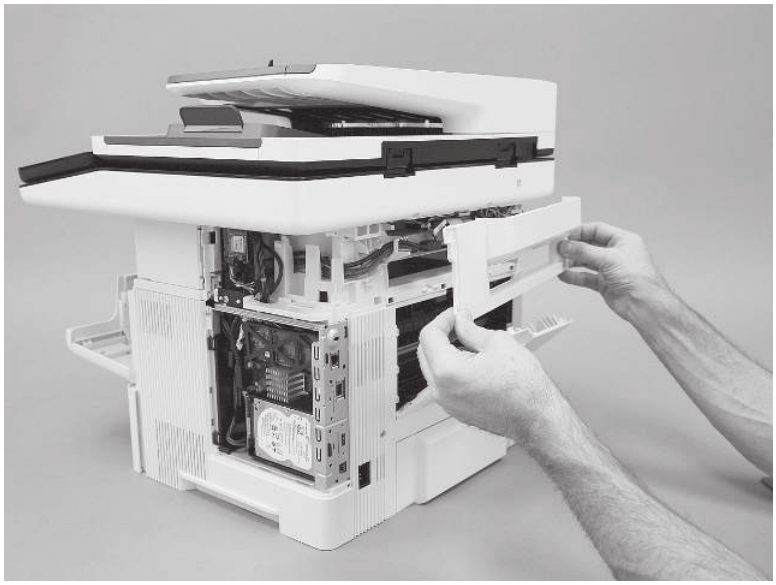
c. Continue to rotate the cover away from the printer to release one boss.

Figure 1-1120 Release one boss



d. Remove the cover.

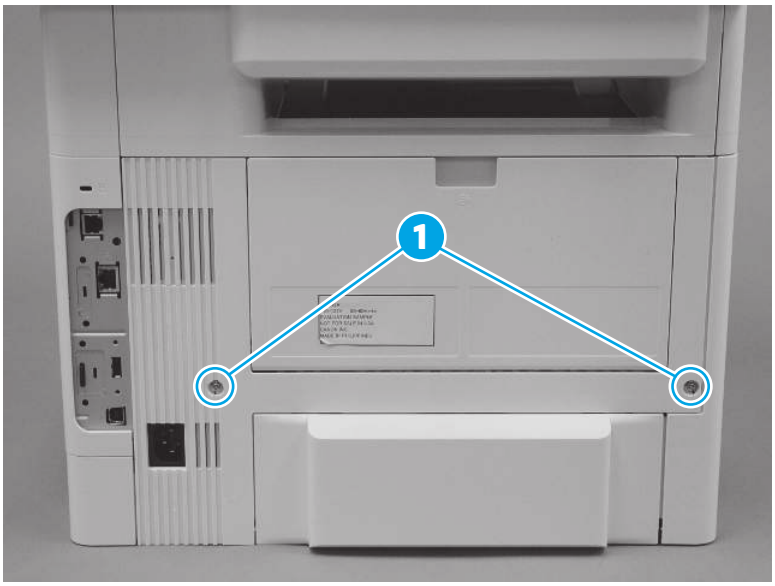
Figure 1-1121 Remove the cover



11. Remove the rear door assembly.

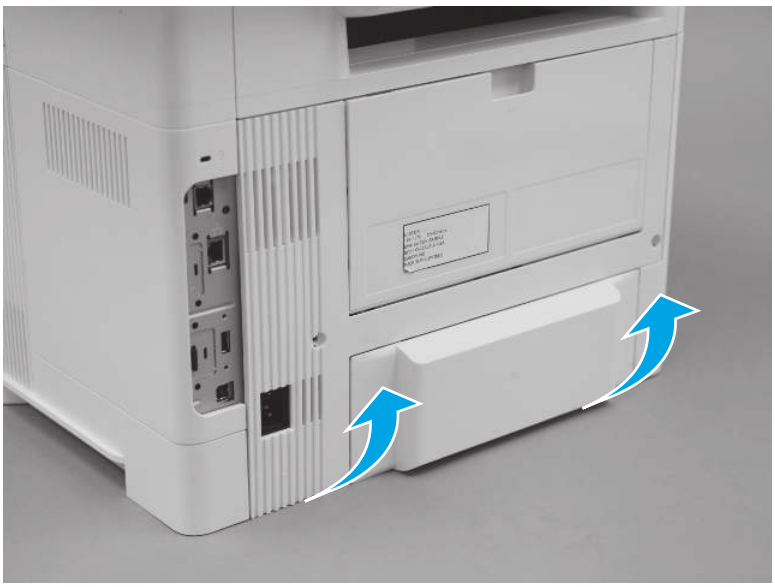
a. At the rear of the printer, remove two screws (callout 1).

Figure 1-1122 Remove two screws



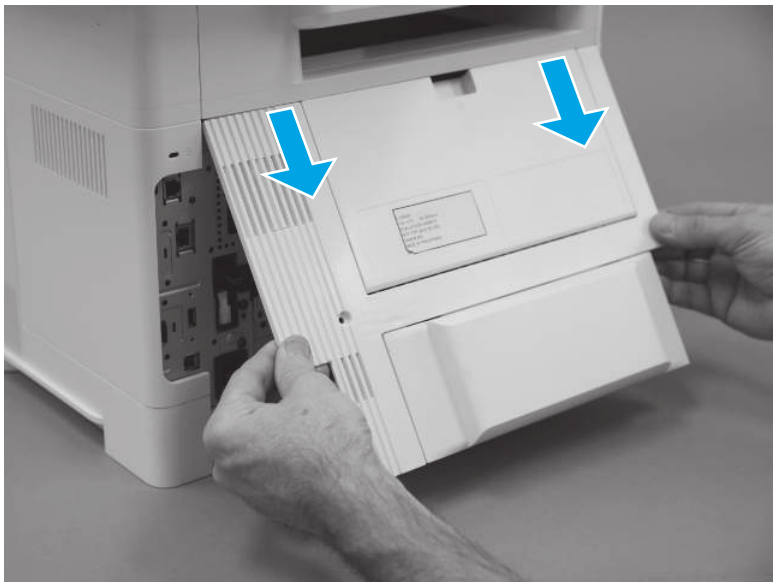
b. Rotate the bottom edge of the assembly away from the printer to release it.

Figure 1-1123 Rotate the bottom of the cover



c. Pull down on the assembly to remove it.

Figure 1-1124 Remove the cover



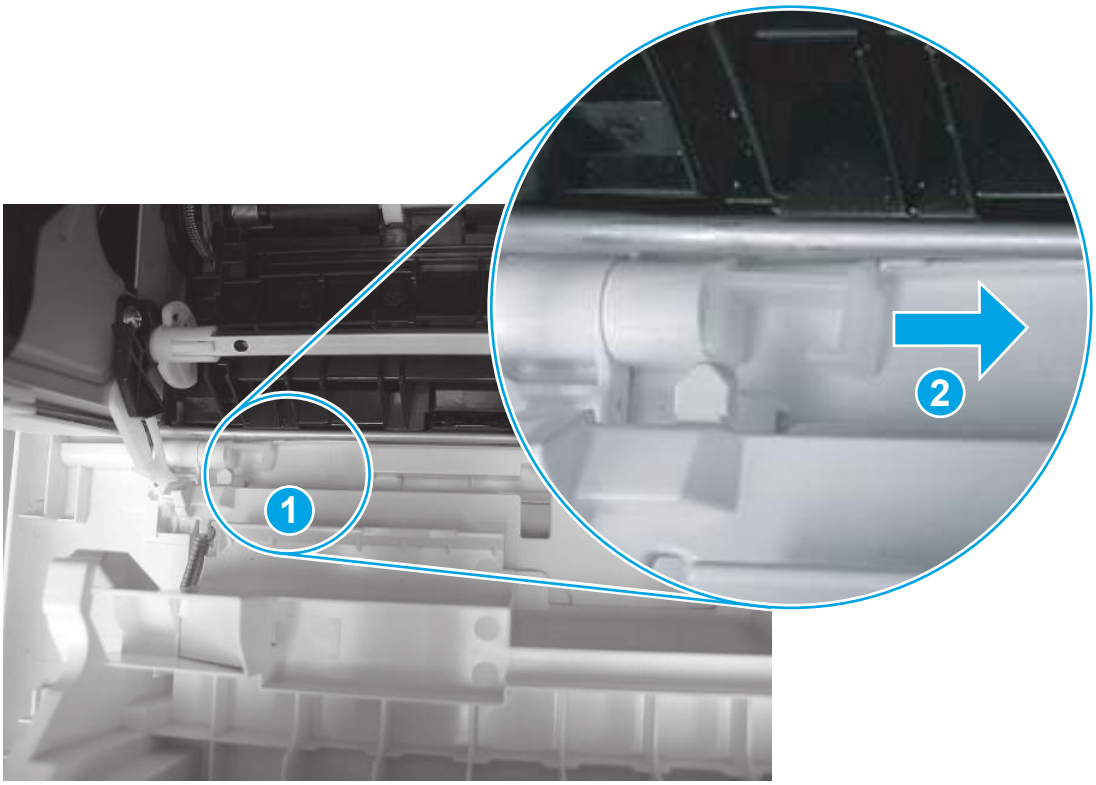
12. Remove the cartridge door assembly.

NOTE: If the toner cartridge was not removed prior to servicing the printer, remove it now.

a. Release the support shaft (callout 1), and then slide it toward the center of the door (callout 2).

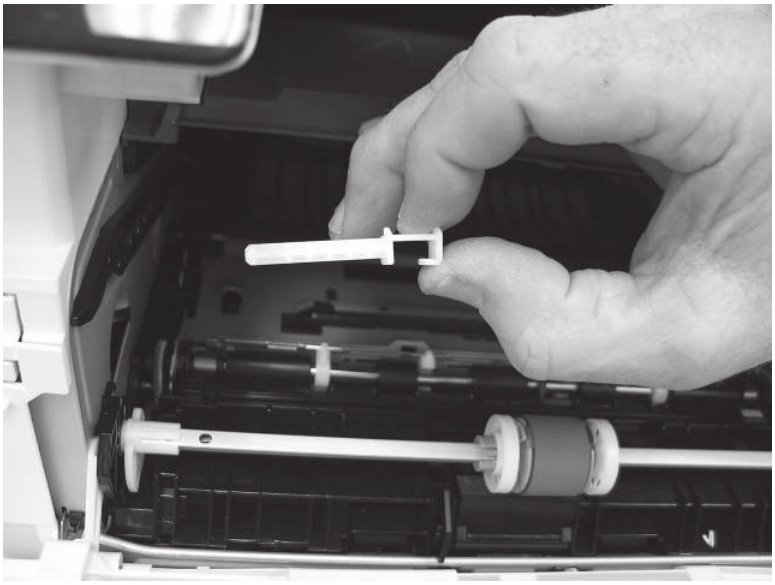
TIP: It might be easier to release the support shaft by using a small flat-blade screwdriver.

Figure 1-1125 Release the support shaft



b. Remove the support shaft.

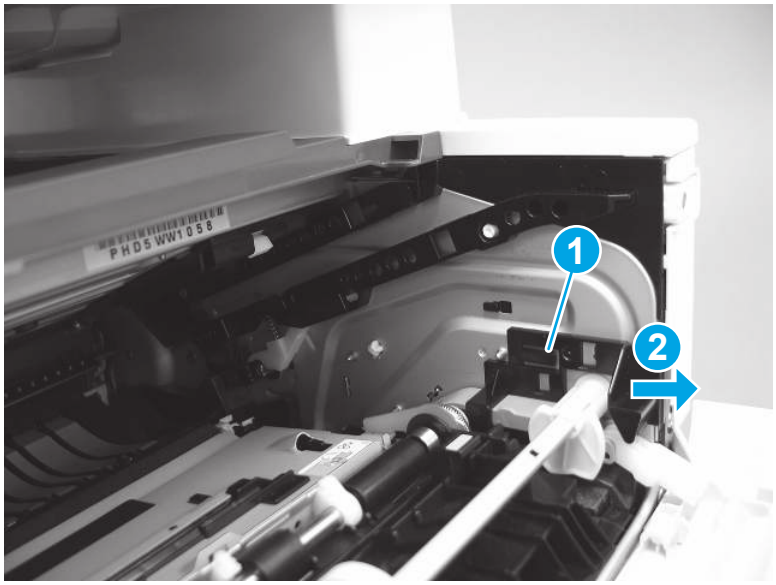
Figure 1-1126 Remove the support shaft



c. Release one tab (callout 1), and then slide the guide out of the printer (callout 2).

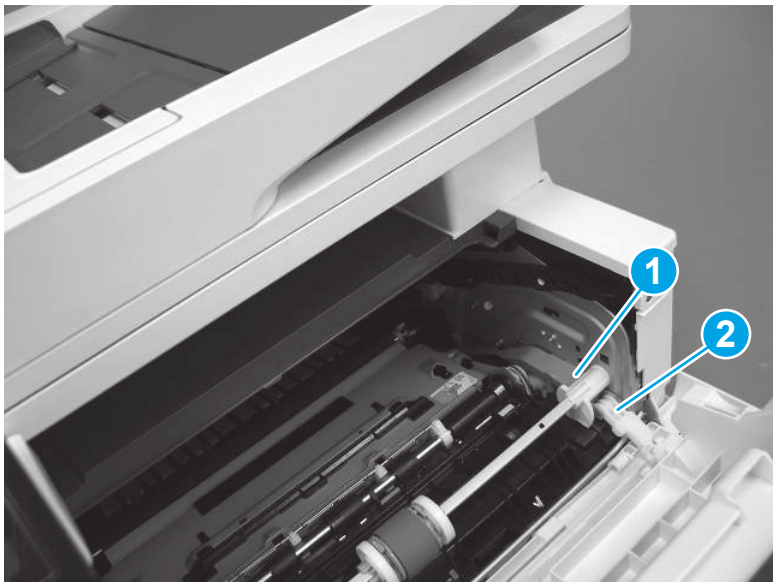
⚠ CAUTION: Be careful, the tab (callout 1) can be easily broken.

Figure 1-1127 Remove the guide



d. Use a small flat-blade screwdriver to gently pry the white-plastic door arm (callout 1) off of the gray-plastic pressure-release link (callout 2) to release the door arm.

Figure 1-1128 Release the pressure-release link



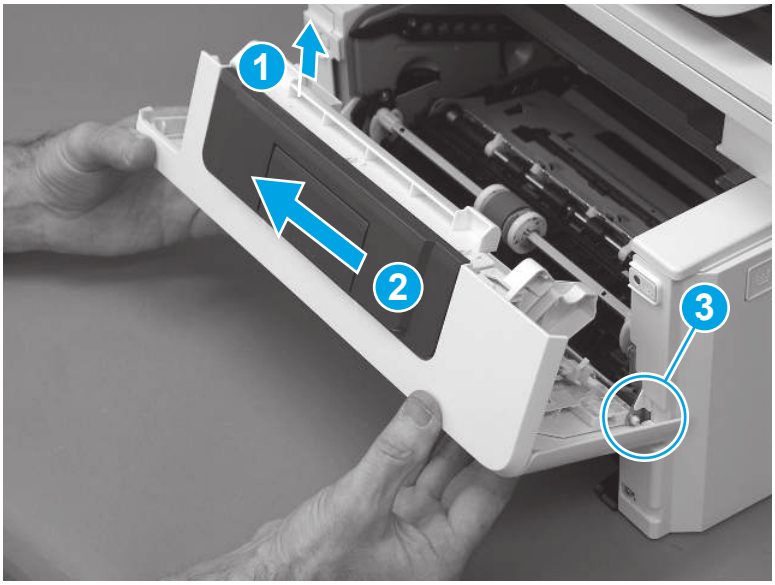
e. With the door in the partially closed position, slightly raise the left end (callout 1; raise it over the sheet-metal hinge boss), and then slide the door to the left (callout 2) to release the right hinge (callout 3).

⚠ CAUTION: The door is still attached to the printer by the left-side retainer arm. Do not attempt to completely remove the door.

Reinstallation tip: When reinstalling the door, there are two right-side hinge pins (not shown in callout 3).

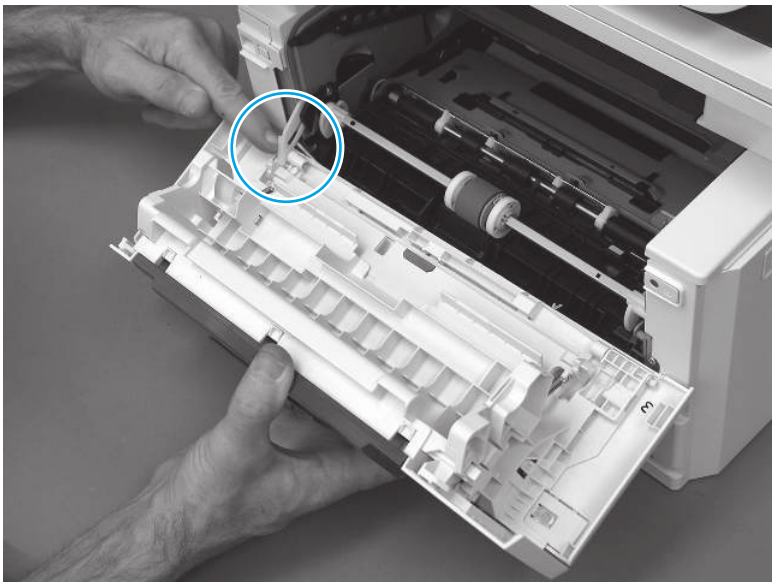
Keep a finger pressed on the left-side retainer arm so that it does not disengage from the door.

Figure 1-1129 Release the door



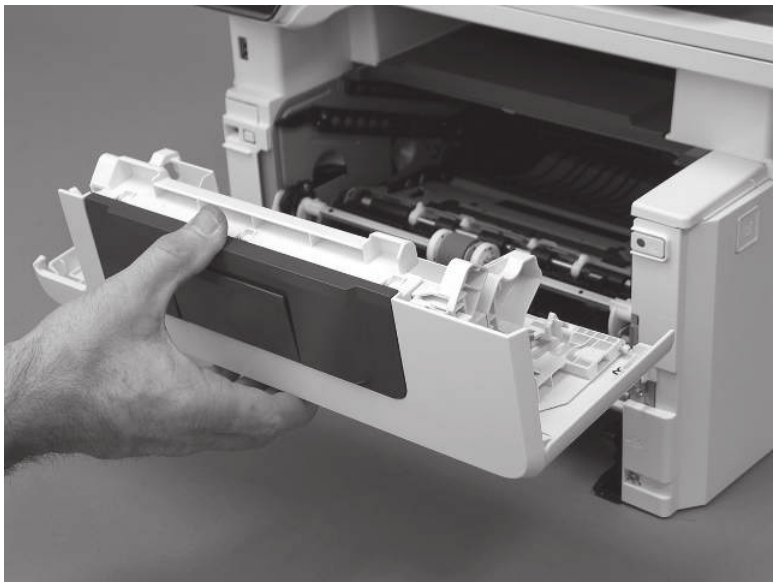
f. Rotate the door away from the printer until the keyed pin on the left-side retainer arm can disengage from the door.

Figure 1-1130 Release the left-side retainer arm



g. Remove the door.

Figure 1-1131 Remove the door



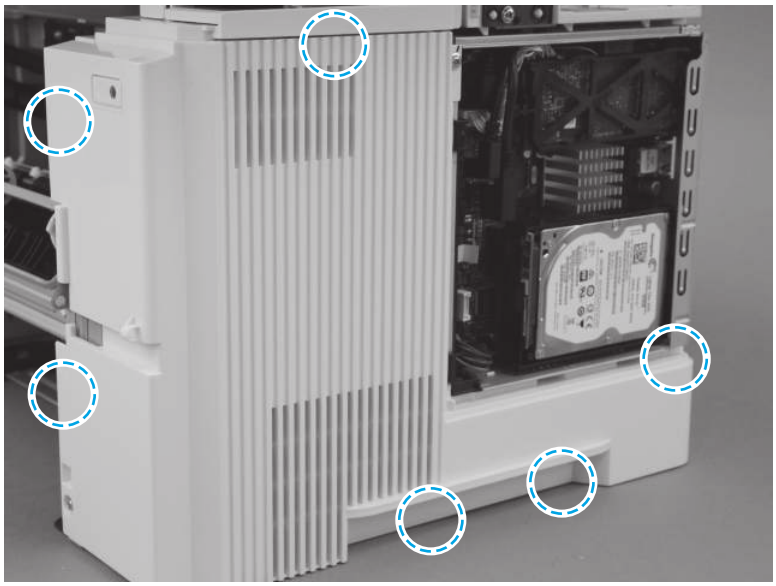
13. Remove the right cover.

IMPORTANT: The black-plastic cassette front and rear guides (located inside the tray cavity) can be easily dislodged. Do not lose the guides when the cover is removed or installed.

An MFP printer is shown in this section. However, the procedure is correct for all printer models.

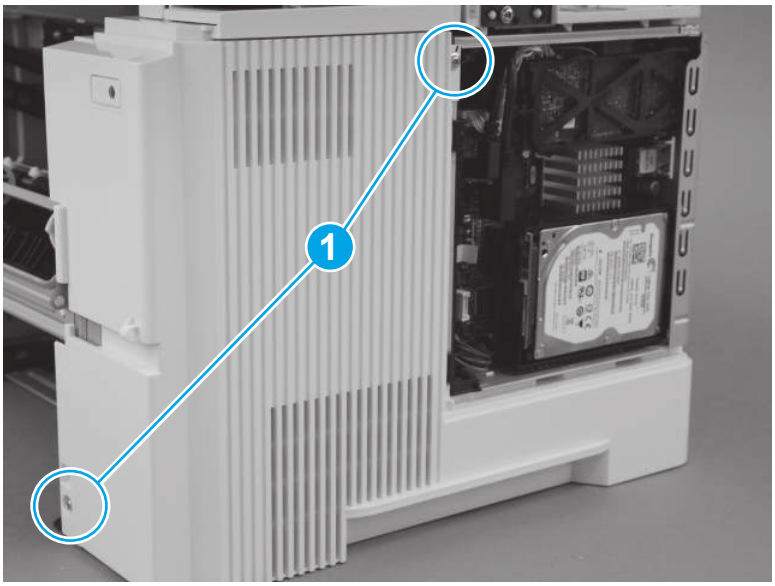
a. Before proceeding, take note of the location of the tabs and bosses on the inside of the cover.

Figure 1-1132 Locate the tabs and bosses



b. Remove two screws (callout 1).

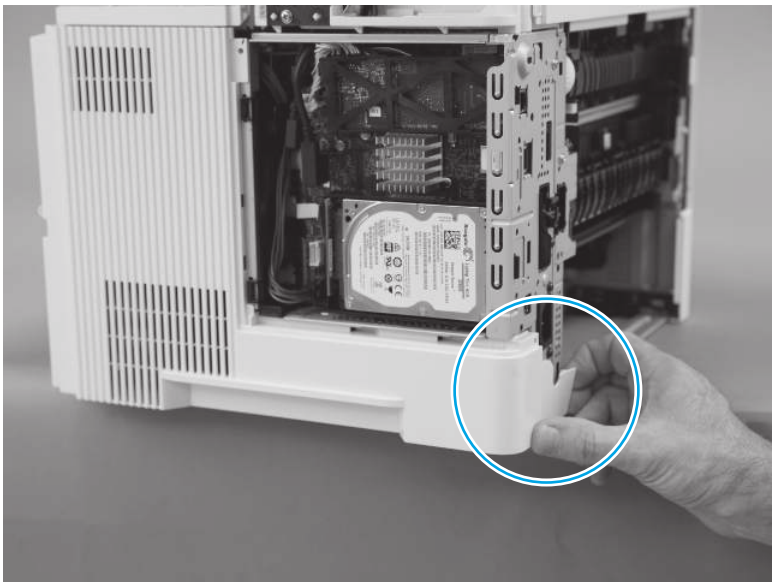
Figure 1-1133 Remove two screws



c. At the rear of the printer, release one boss.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

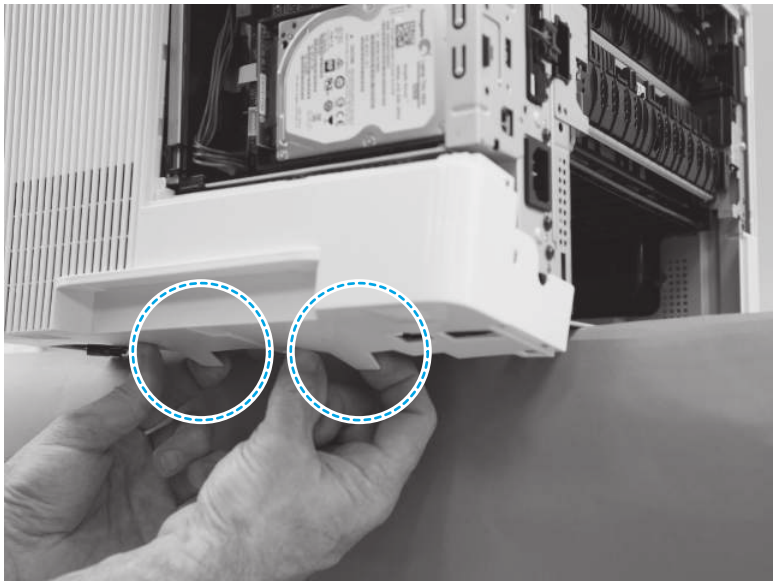
Figure 1-1134 Release one boss



d. At the bottom edge of the cover, release two bosses.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

Figure 1-1135 Release two bosses

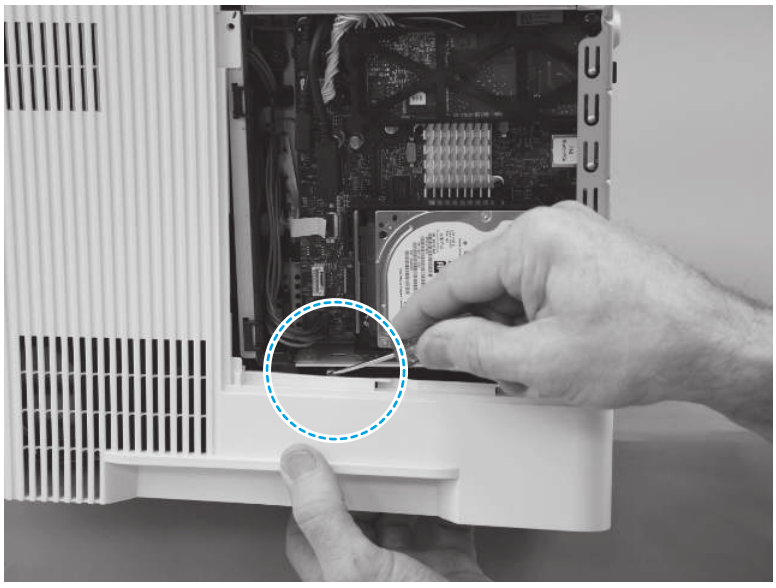


e. Near the formatter, release one tab.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

TIP: Hold the bottom of the cover away from the printer, and then use a small flat-blade screw driver to easily release this tab.

Figure 1-1136 Release one tab

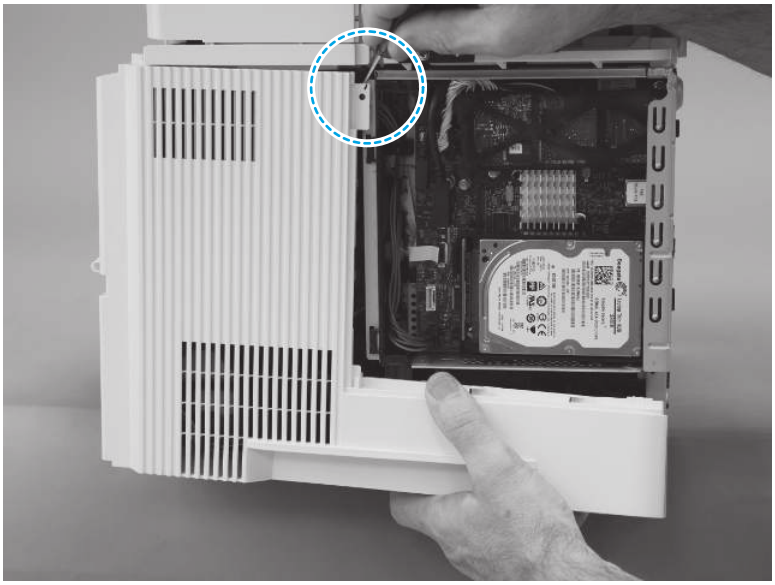


f. At the top rear edge of the cover, release one tab.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

TIP: Use a small flat-blade screw driver to easily release this tab.

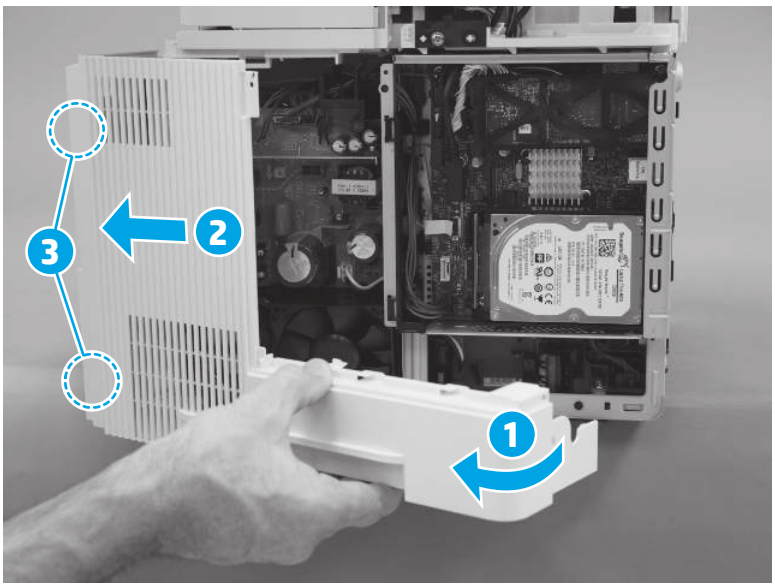
Figure 1-1137 Release one tab



g. Rotate the rear of the cover away from the printer (callout 1), slide the cover toward the front of the printer (callout 2) to release two bosses (callout 3), and then remove the cover.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

Figure 1-1138 Remove the cover



14. Remove the left cover.

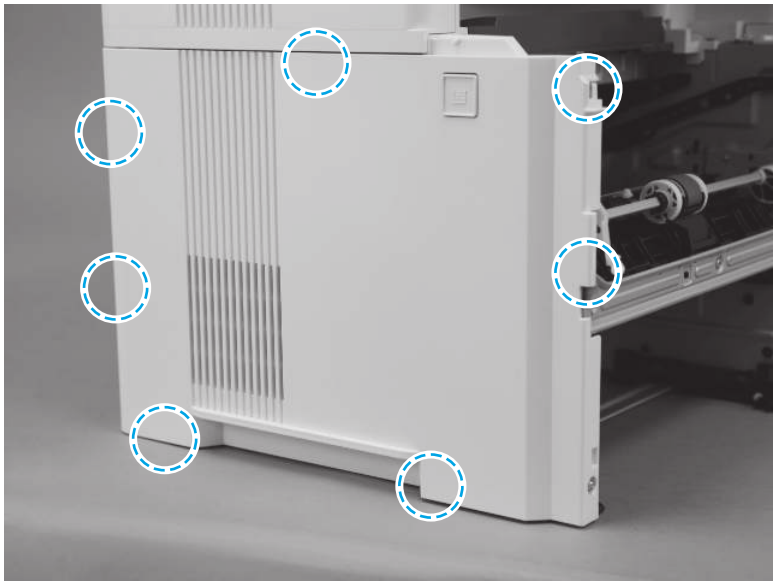
IMPORTANT: The black-plastic cassette front and rear guides (located inside the tray cavity) can be easily dislodged. Do not lose the guides when the cover is removed or installed.

NOTE: An MFP printer is shown in this section. However, the procedure is correct for all printer models.

a. Before proceeding, take note of the location of the tabs and bosses on the inside of the cover.

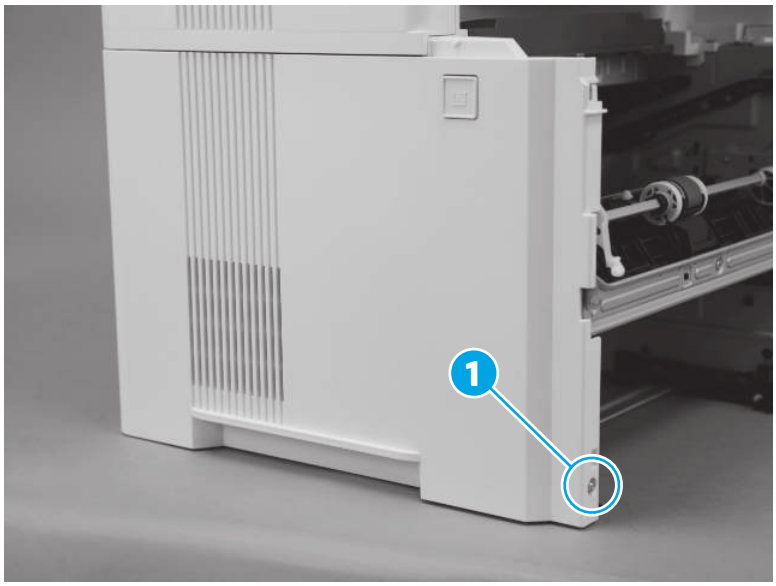
Reinstallation tip: When reinstalling the cover, take note of the location of the tabs and bosses on the inside of the cover.

Figure 1-1139 Locate of the tabs and bosses



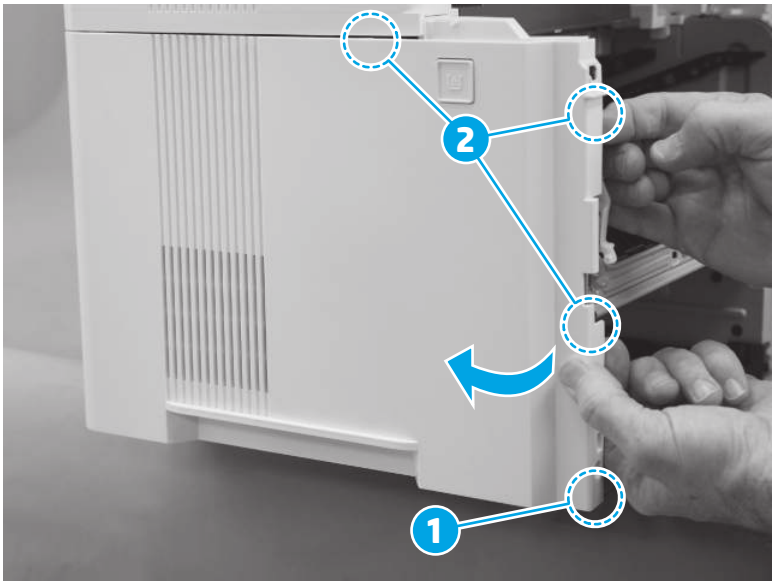
b. Remove one screw (callout 1).

Figure 1-1140 Remove one screw



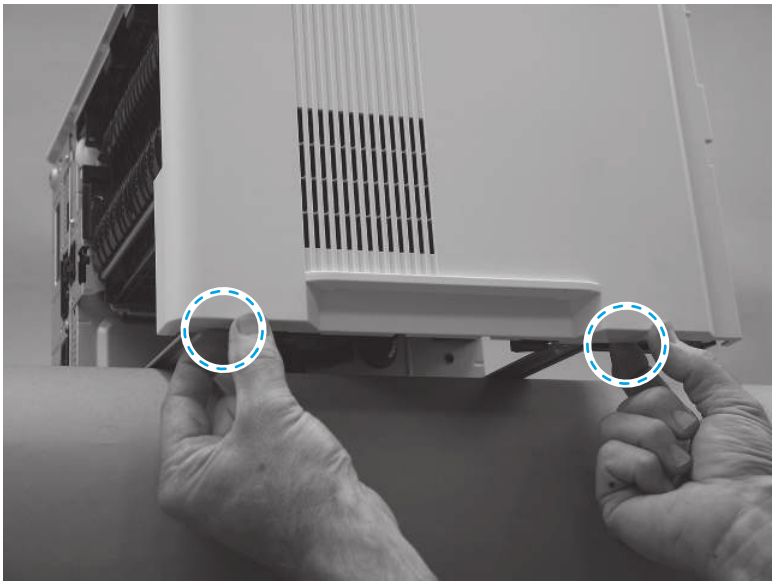
c. At the front of the printer, release one boss (callout 1), and then rotate the front edge of the cover away from the printer to release three tabs (callout 2).

Figure 1-1141 Release one boss and three tabs



d. At the bottom edge of the cover, release two tabs.

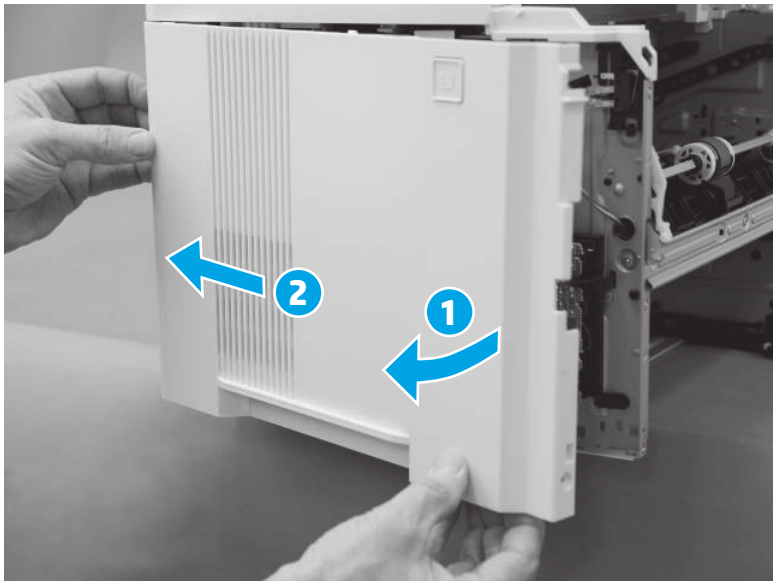
Figure 1-1142 Release two tabs



e. Continue to rotate the front edge of the cover away from the printer (callout 1), and then slide the cover toward the rear of the printer (callout 2) to remove it.

NOTE: If the cover is difficult to rotate or slide as shown below, make sure that the bottom tabs (released in the previous step) are completely disengaged from the chassis.

Figure 1-1143 Remove the cover



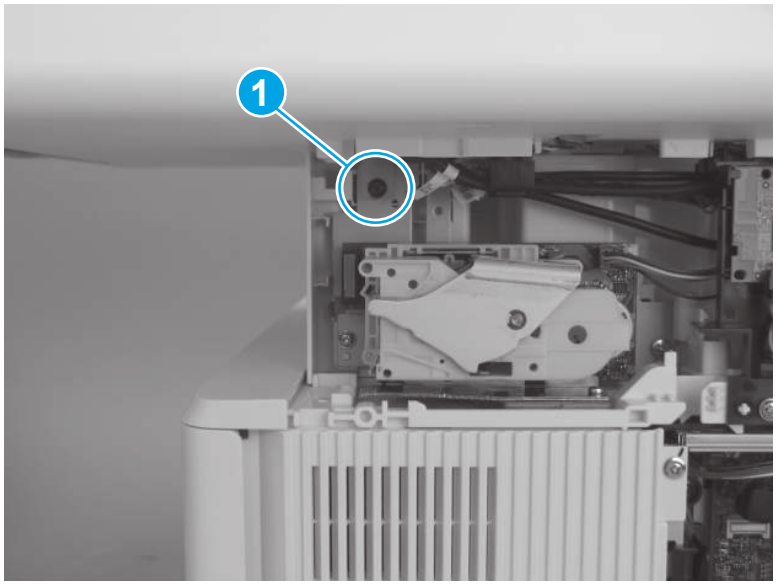
15. Remove the integrated-scanner assembly (ISA) (M527/E52545/M528/E52645).

NOTE: The ISA includes the document feeder, sub-scanner assembly (SSA), and the scanner control board (SCB).

a. Remove one screw (callout 1).

IMPORTANT: This screw fastens the ISA ground plate to the printer chassis. Do not lose this screw.

Figure 1-1144 Remove one screw

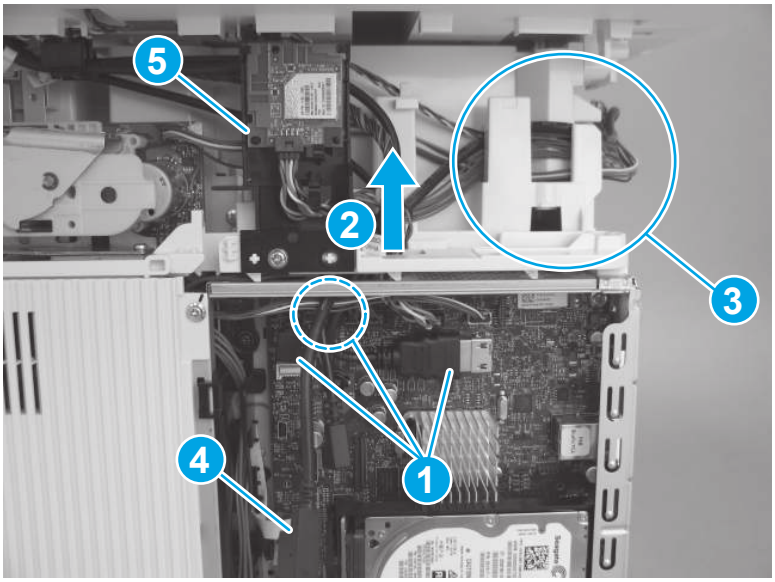


b. Disconnect three connectors (callout 1), pass the wire harnesses and cables through the opening in the cover (callout 2), and then release them from the retainers (callout 3).

NOTE: One cable (callout 4) does not need to pass through the opening in the cover.

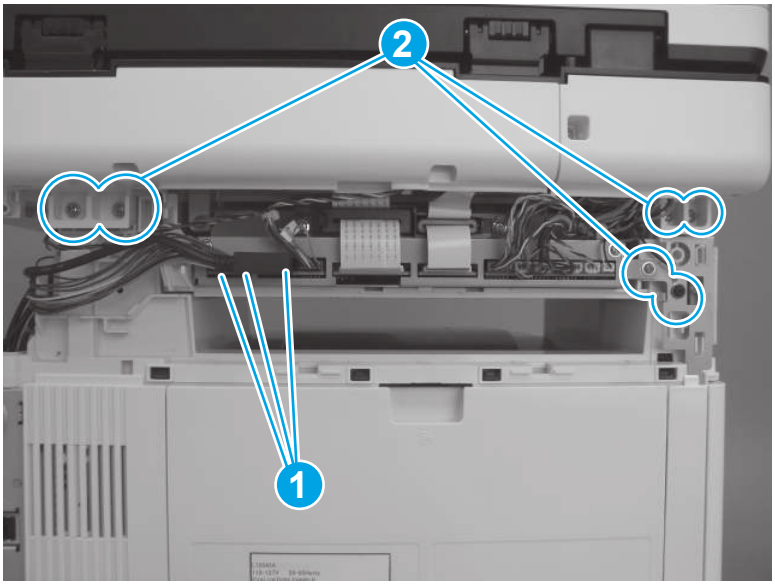
TIP: It might be easier if the WiFi PCA and holder (not all models; callout 5) is detached from the printer, and then moved out of the way.

Figure 1-1145 Disconnect cables and connectors



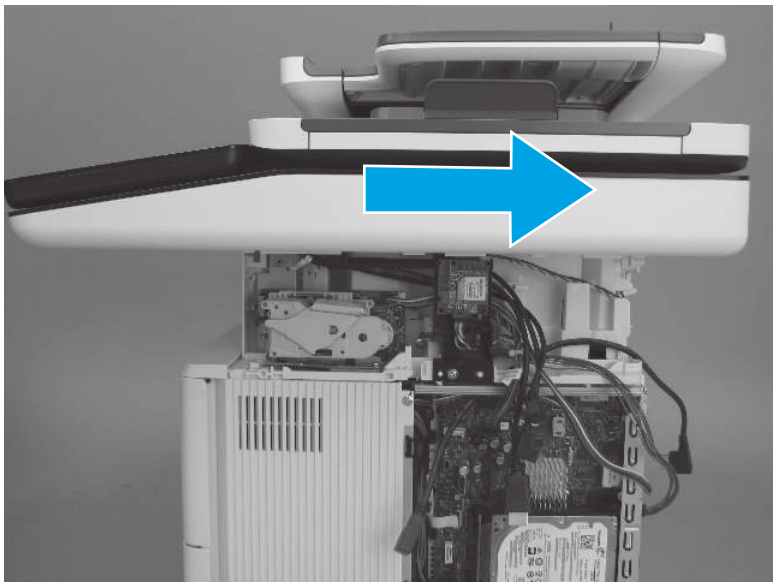
c. Disconnect three connectors (callout 1), and then remove six screws (callout 2).

Figure 1-1146 Disconnect connectors and remove screws



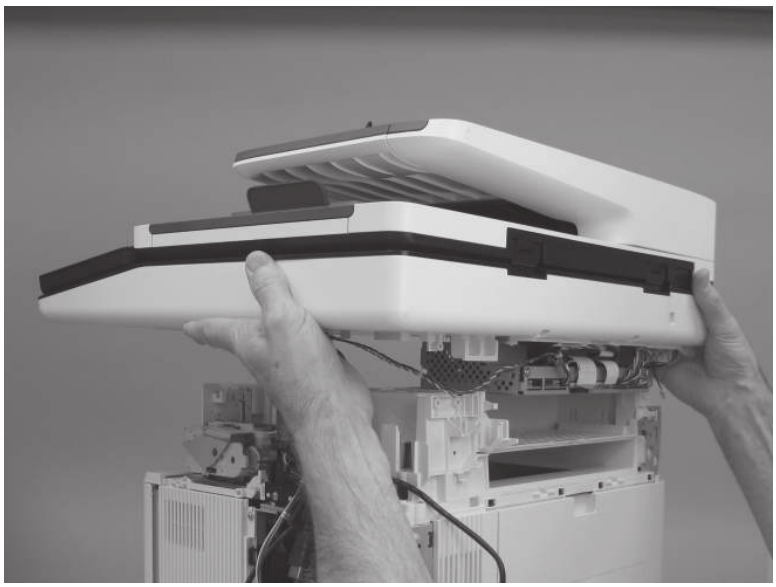
d. Slightly slide the ISA towards the back of the printer to release it.

Figure 1-1147 Slide the ISA towards the back of the printer



e. Remove the ISA.

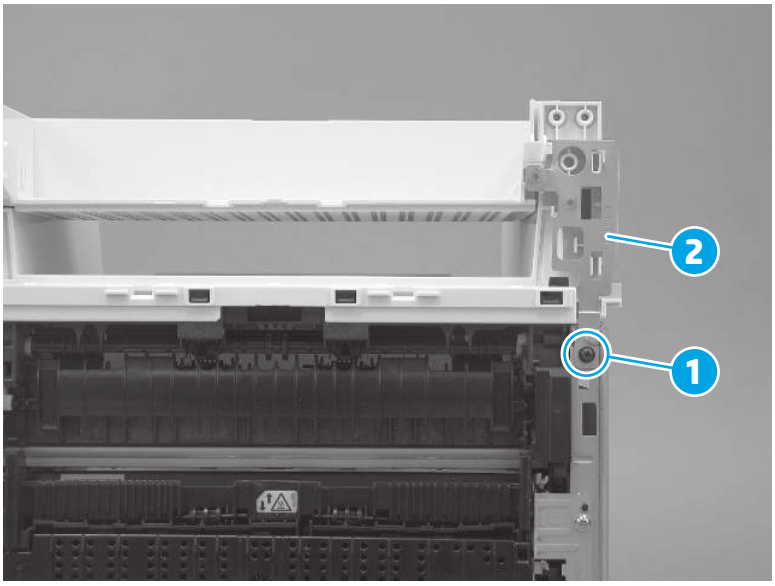
Figure 1-1148 Remove the ISA



16. Remove the top cover (M527/E52545/M528/E52645).

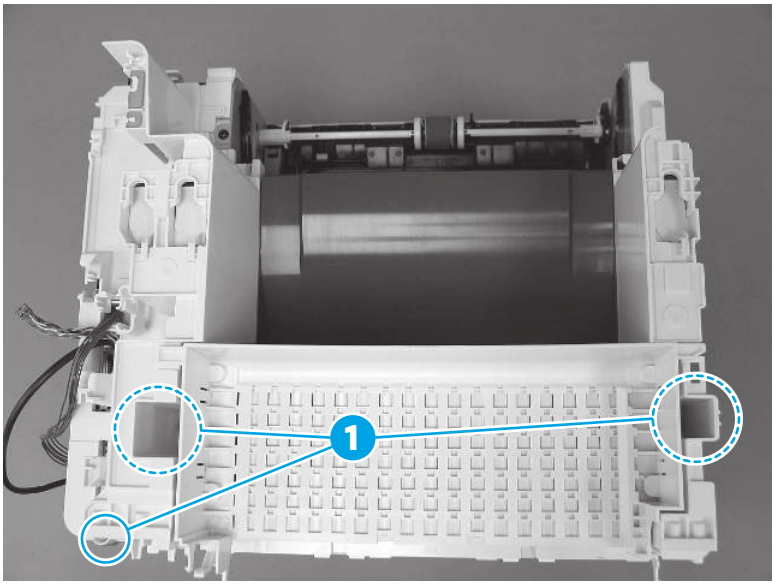
a. At the front right of the printer, remove one screw (callout 1), and then remove the sheet-metal plate (callout 2).

Figure 1-1149 Remove one screw and the plate



b. At the top rear of the printer, remove three screws (callout 1).

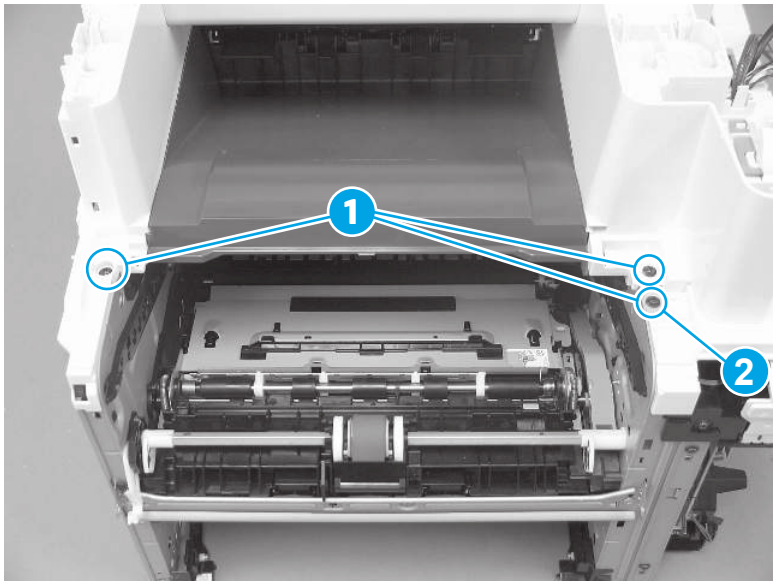
Figure 1-1150 Remove three screws



c. At the top front of the printer, remove three screws (callout 1).

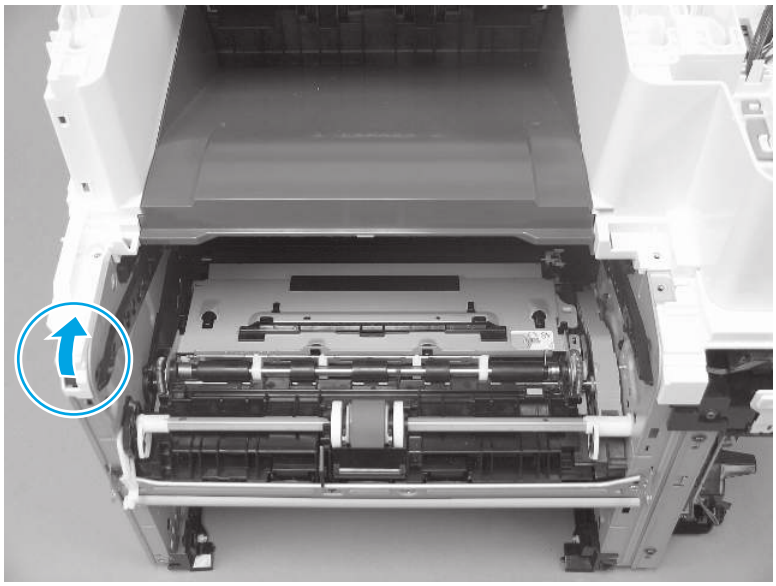
NOTE: The screw (callout 2) on the lower-right portion of the cover is a different color than the other two screws, and is surrounded by sheet-metal. It might appear that this screw does not need to be removed. Remove this screw.

Figure 1-1151 Remove three screws



d. At the front left of the printer, release one boss.

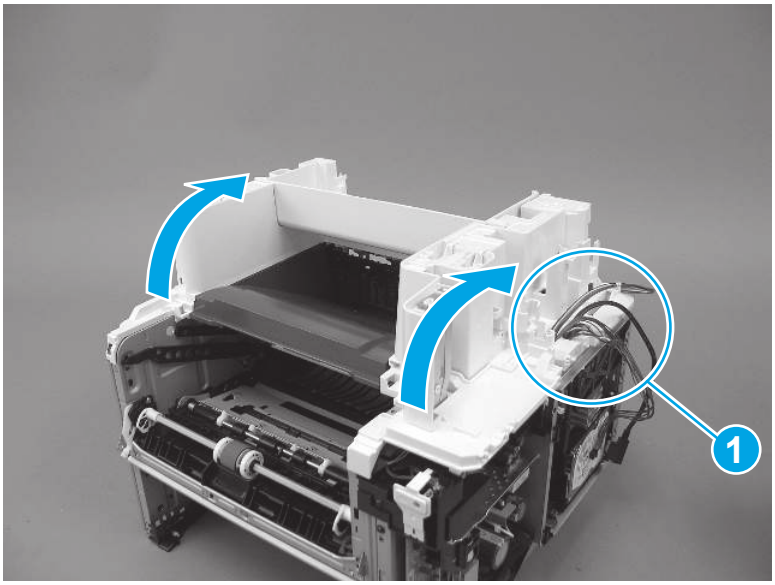
Figure 1-1152 Release one boss



e. Rotate the front of the cover up and away from the printer.

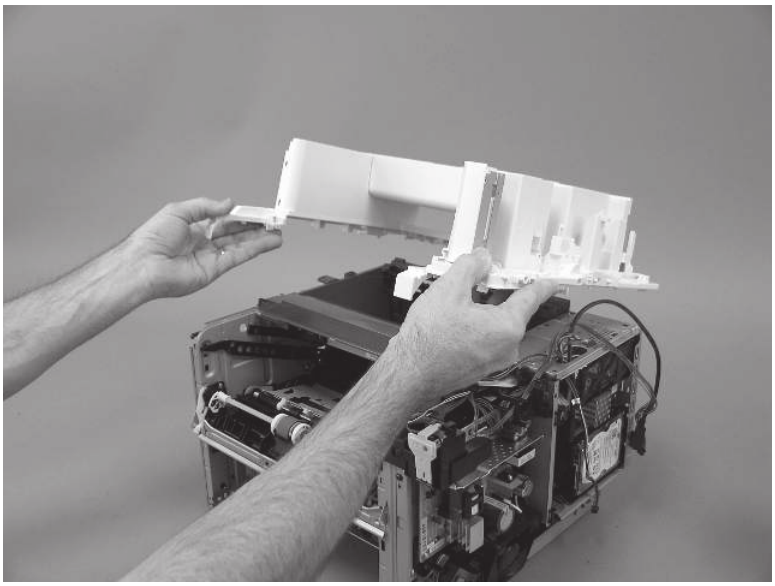
⚠ CAUTION: As the cover is rotated up, carefully pass the cables and wire harnesses the hole in the cover (callout 1).

Figure 1-1153 Rotate the front of the cover up



f. Remove the cover.

Figure 1-1154 Remove the cover

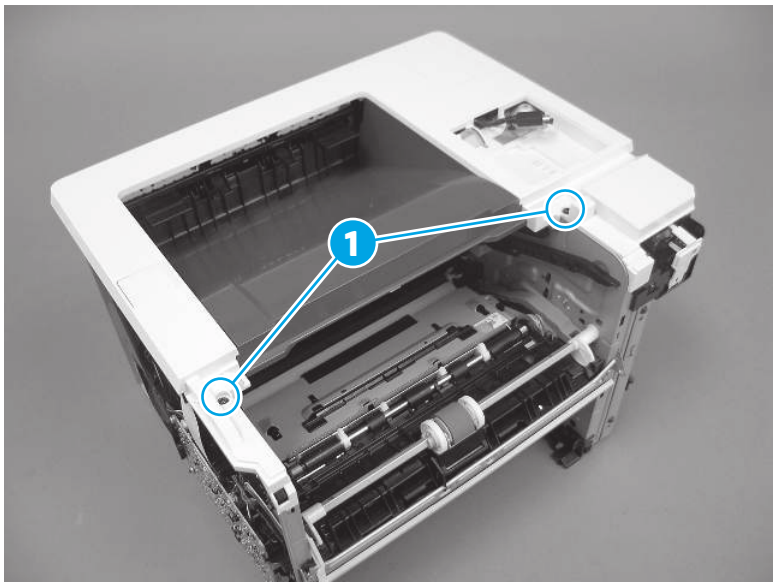


17. Remove the top cover (M501/M506/E50045/M507/E50145).

    The M506x/E50045x is shown in this procedure. However, the steps are correct for all M506/E50045/M507/E50145 models and the M501 printer.

a. Remove two screws (callout 1).

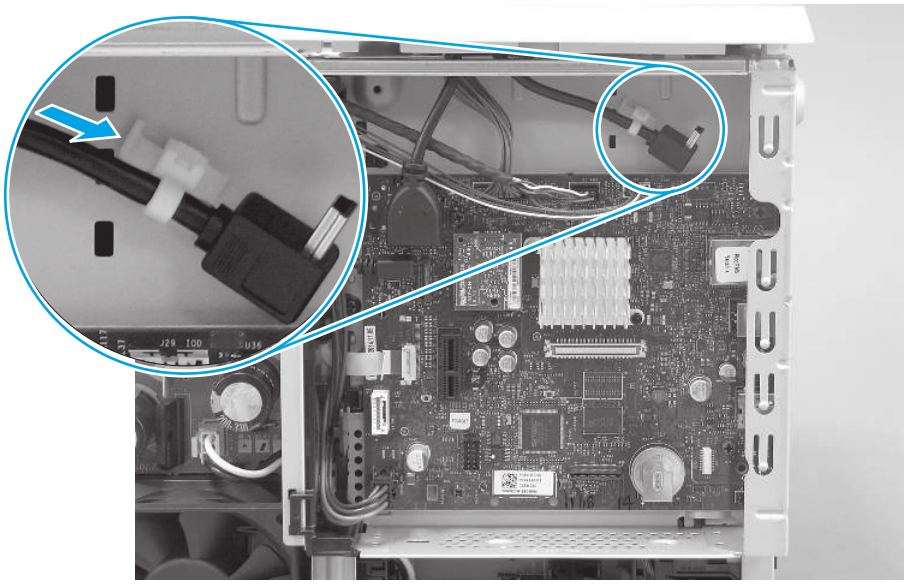
Figure 1-1155 Remove two screws



b. **M506/E50045/ only**: Release one cable retainer from the chassis.

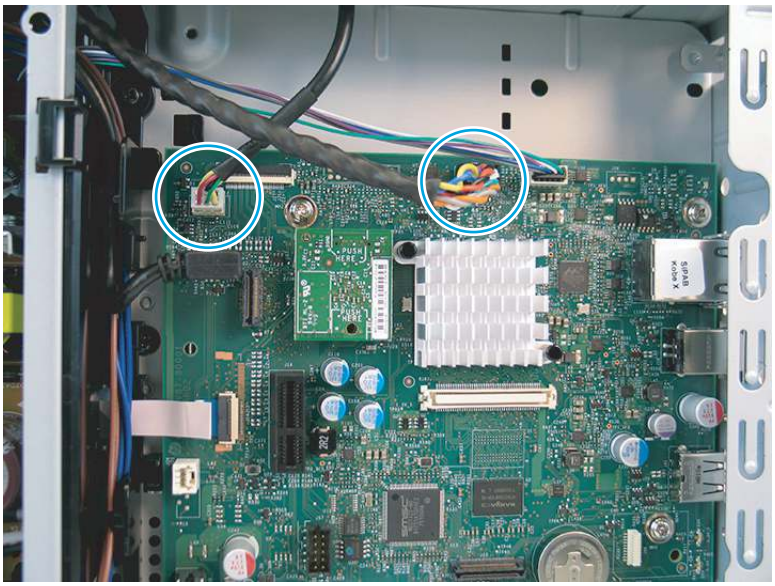
TIP: Depress the tab on the retainer to release it.

Figure 1-1156 Release one cable retainer



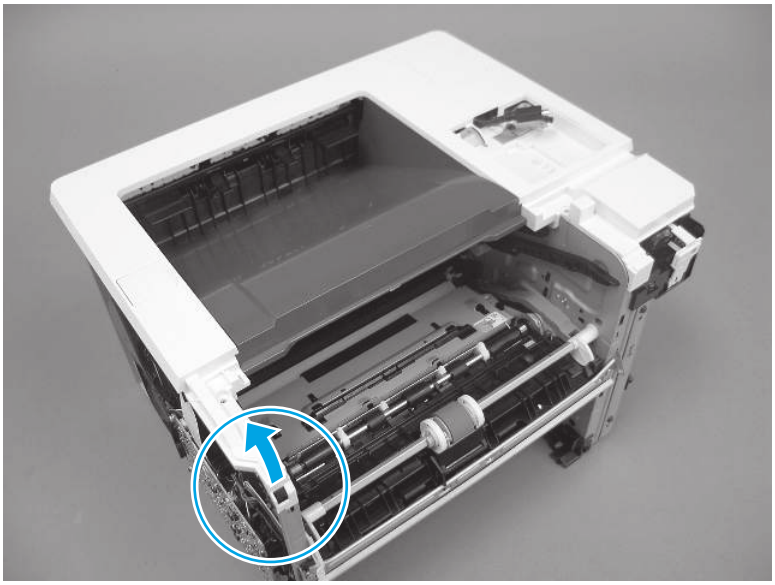
c. **M507/E50145 only**: Disconnect two connectors.

Figure 1-1157 Disconnect two connectors



d. Release one boss.

Figure 1-1158 Release one boss

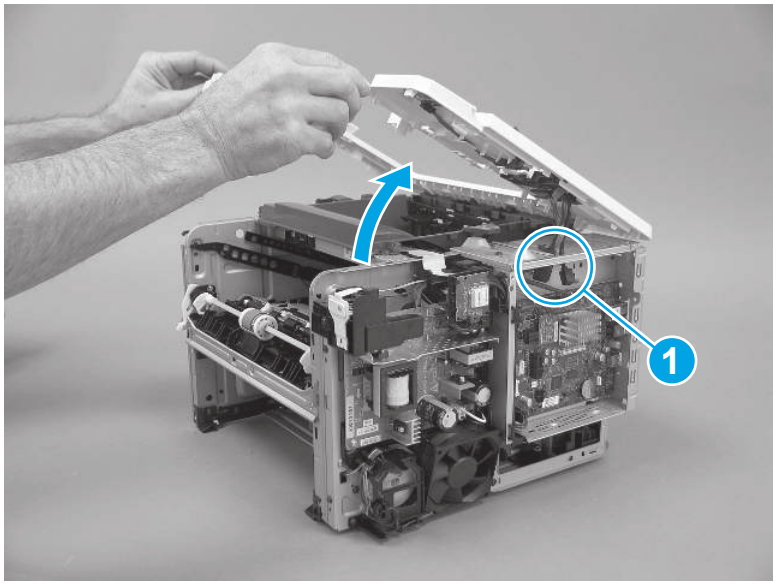


e. **M506/E50045/ only**: Rotate the front of the cover up and away from the printer, and then remove the cover.

⚠ CAUTION: **M506x/E50045x only**: As the cover is rotated up, carefully pass the cables the hole in the chassis (callout 1).

NOTE: **LCD control panel models only**: Disconnect the control panel before removing the cover.

Figure 1-1159 Remove the cover (M506/E50045)



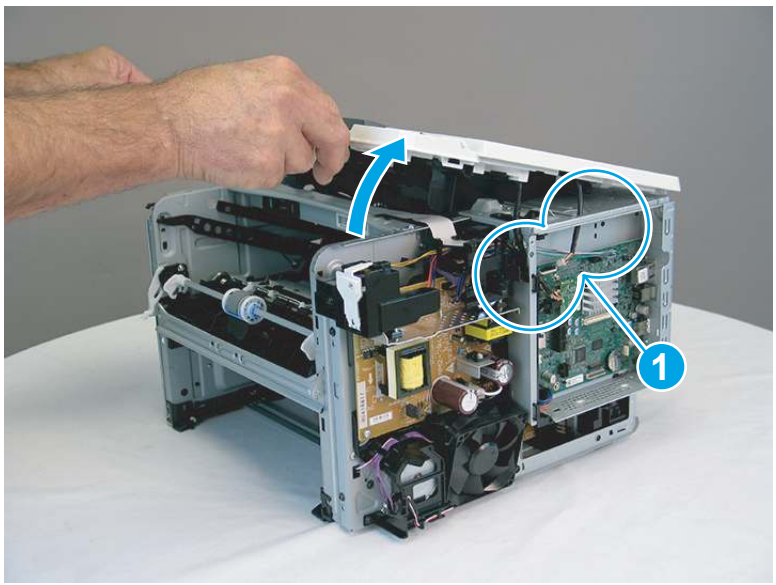
f. M507/E50145only: Rotate the front of the cover up and away from the printer, and then remove the cover.

CAUTION: M507x/E50145x only: As the cover is rotated up, carefully pass the cables the hole in the chassis (callout 1).

IMPORTANT: If the top cover is being replaced, make sure to transfer the WiFi PCA from the discarded cover to the replacement cover.

NOTE: LCD control panel models only: Disconnect the control panel before removing the cover.

Figure 1-1160 Remove the cover (M507/E50145)

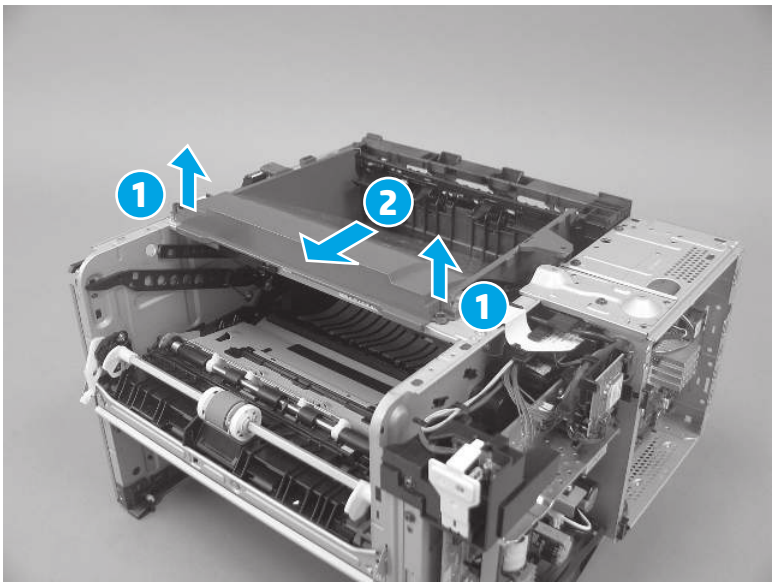


18. Remove the paper delivery tray (output bin).

NOTE: A SFP printer is shown in this section. However, the procedure is correct for all printer models.

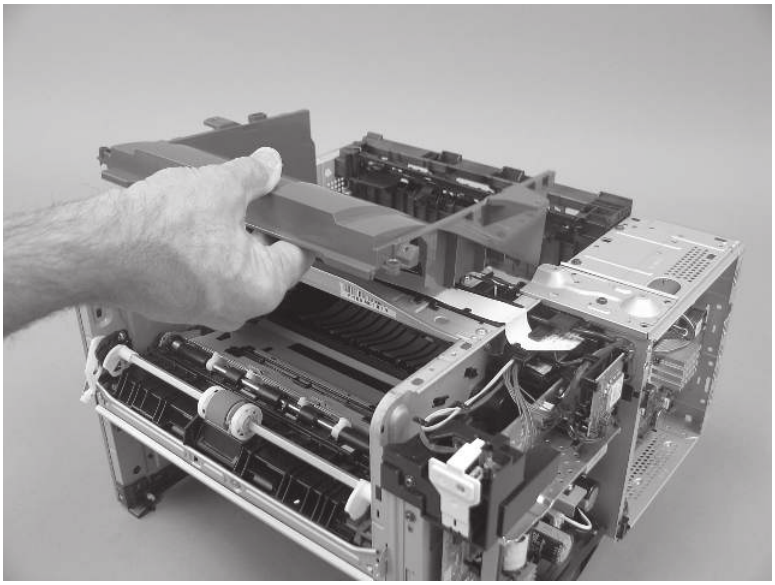
a. Release two tabs (callout 1), and then slide the cover toward the front of the printer (callout 2).

Figure 1-1161 Release two tabs



b. Remove the bin.

Figure 1-1162 Remove he bin

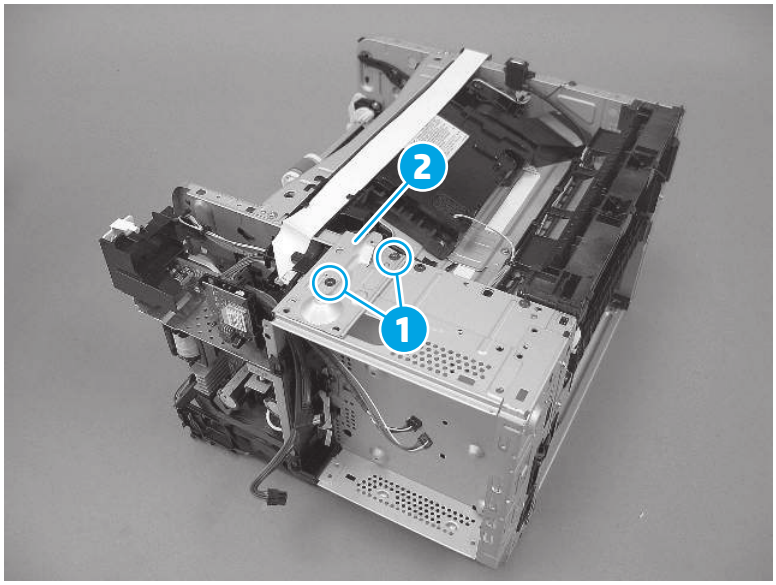


19. Remove the formatter case.

a. **M506/E50045/M507/E50145 only**: Remove two screws (callout 1), and then remove the sheet-metal plate (callout 2).

NOTE: **M507/E50145 only**: The M507/E50145 sheet-metal plate includes a separate black plastic cable guide (not shown). Do not lose the guide when removing the plate.

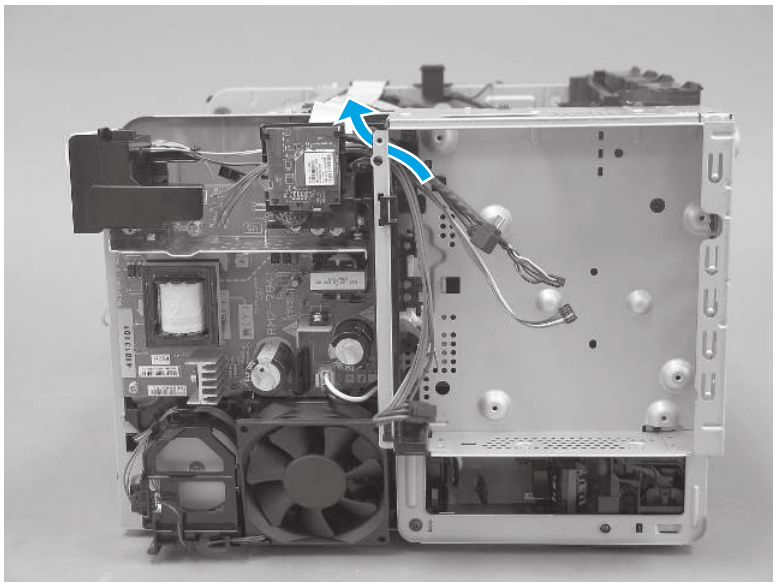
Figure 1-1163 Remove the sheet-metal plate



b. Carefully pass all cables and wire harnesses through the opening in the formatter case.

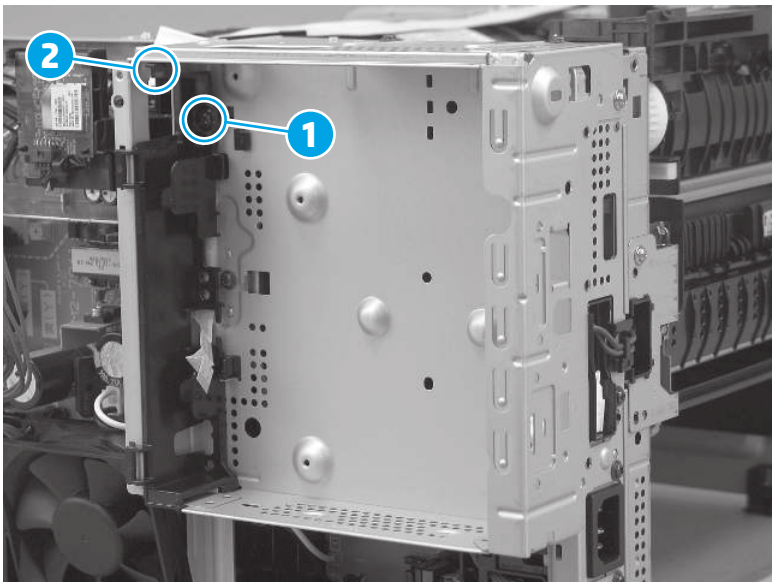
NOTE: A SFP printer is shown in this section. However, the procedure is correct for all printer models.

Figure 1-1164 Pass all cables and wire harnesses through the opening



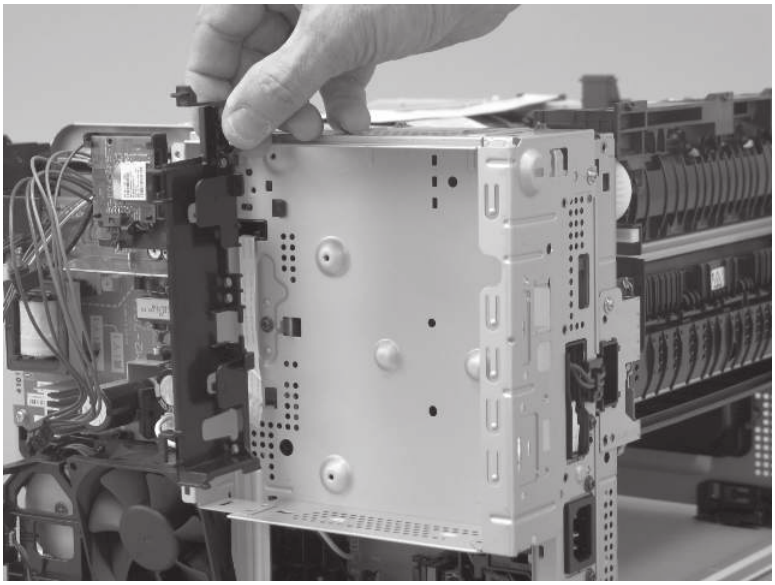
c. Remove one screw (callout 1), and then push down on one tab (callout 2) to release it.

Figure 1-1165 Remove one screw



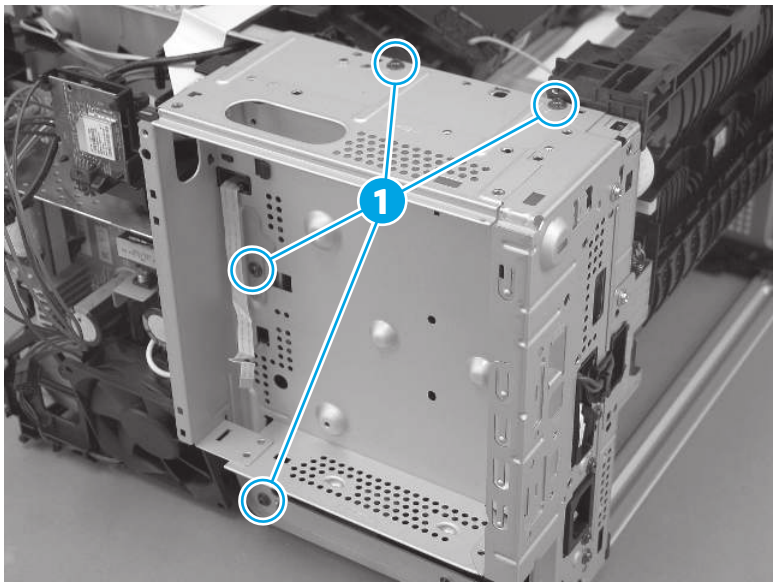
d. Remove the guide.

Figure 1-1166 Remove the guide



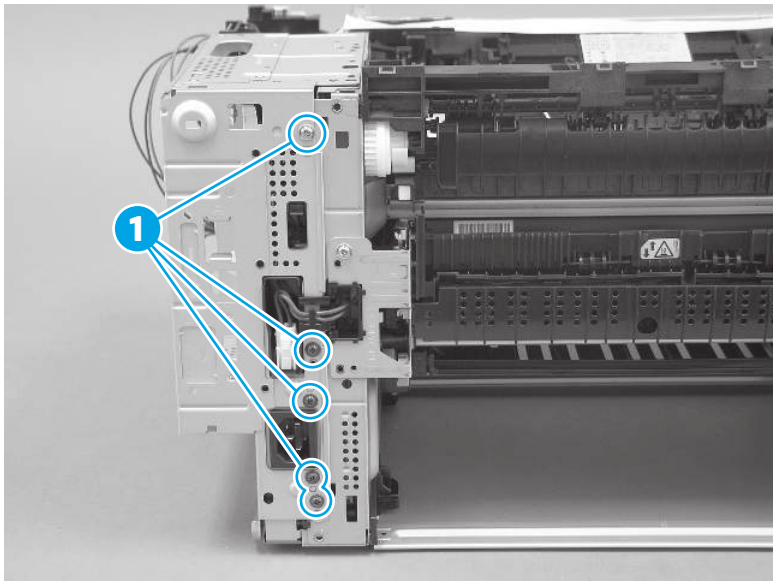
e. Remove four screws (callout 1).

Figure 1-1167 Remove four screws



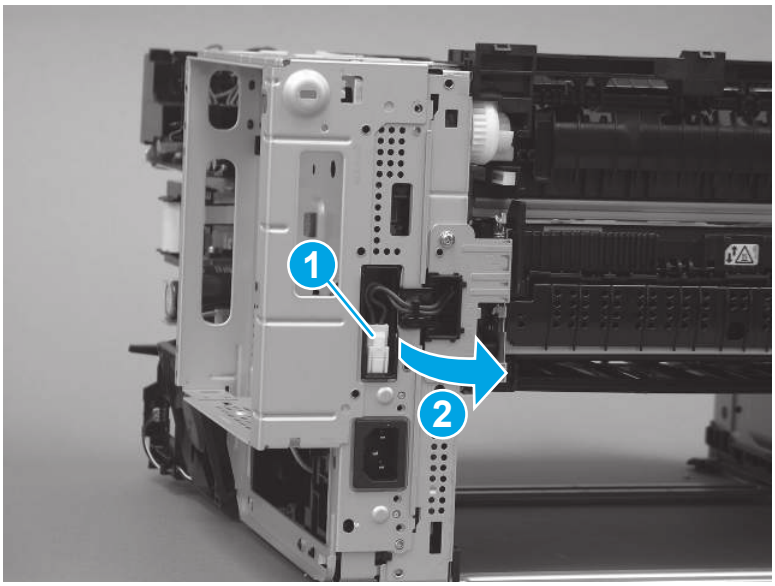
f. Remove five screws (callout 1).

Figure 1-1168 Remove five screws



g. Disconnect one connector (callout 1), and then move the guide out of the way (callout 2).

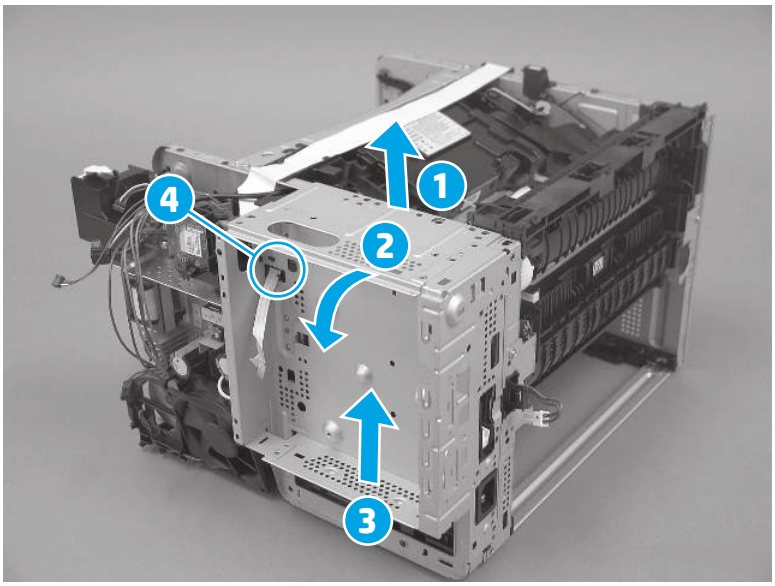
Figure 1-1169 Disconnect one connector



h. Slightly lift up the formatter case (callout 1), rotate the top of the case away from the chassis (callout 2), and then lift up the case to release it (callout 3).

CAUTION: Pass the FFC through the opening (callout 4) in the formatter while removing the case.

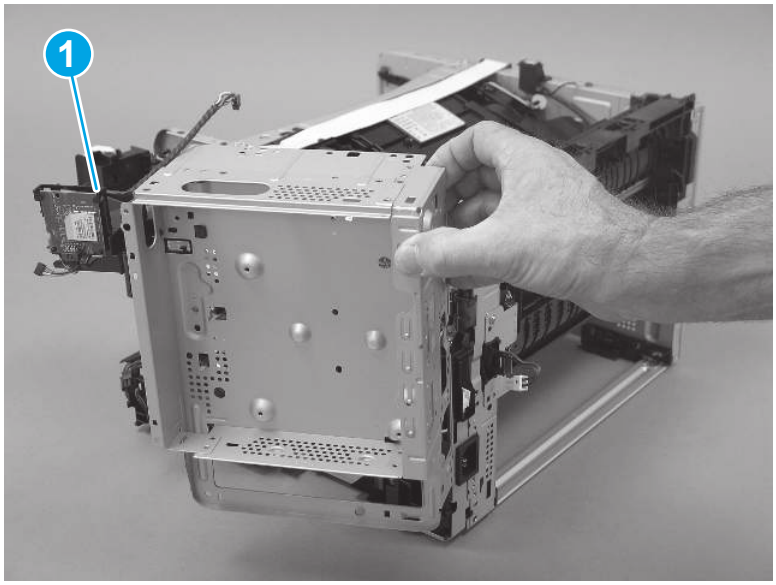
Figure 1-1170 Release the formatter case



i. Remove the formatter case.

NOTE: **WiFi models only**: If the formatter case is being replaced, make sure that the WiFi PCA and bracket (callout 1) are transferred to the replacement case.

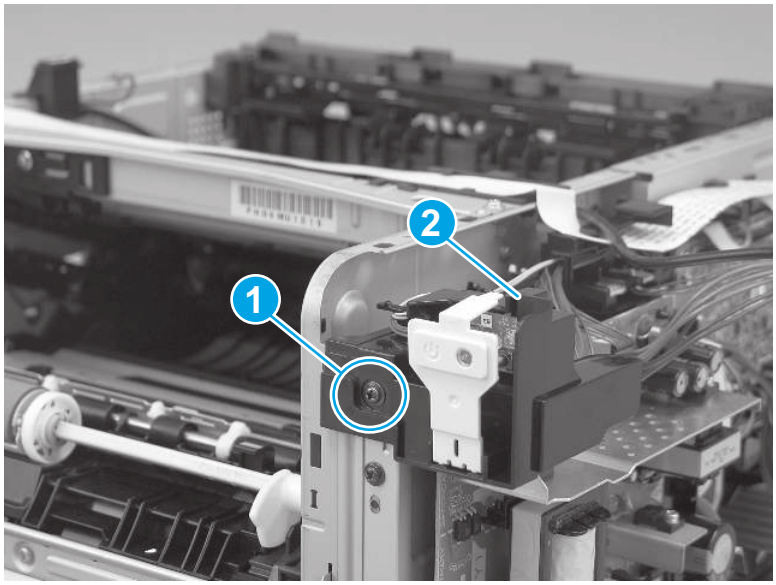
Figure 1-1171 Remove the formatter case



20. Remove the LVPS.

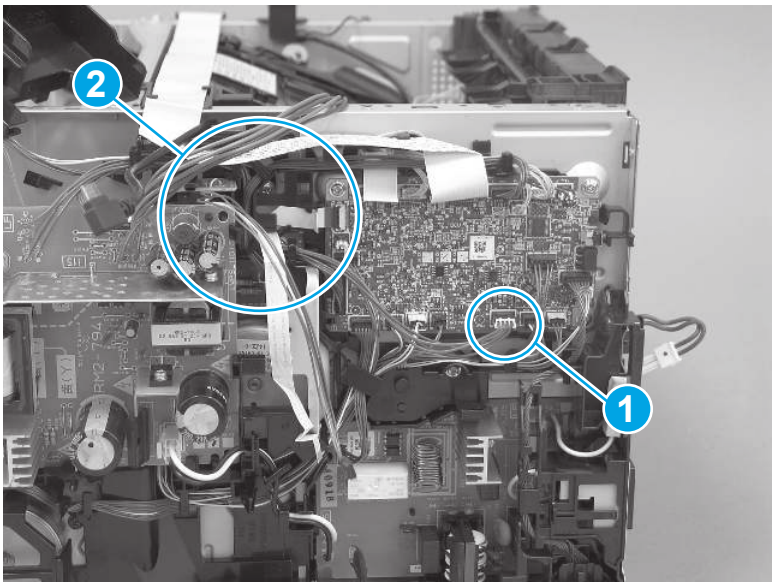
    a. Remove one screw (callout 1), and then move the power-switch assembly (callout 2) out of the way.

Figure 1-1172 Move the power-switch assembly



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

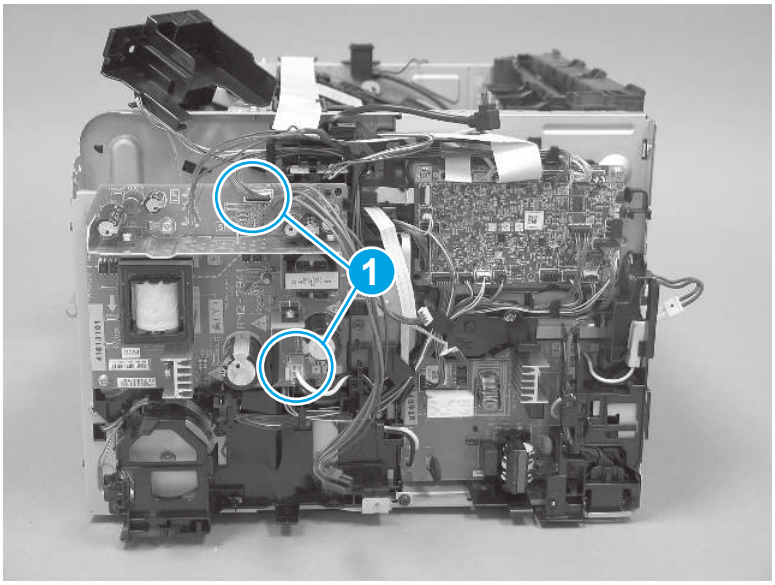
Figure 1-1173 Disconnect one connector



c. Disconnect two connectors (callout 1).

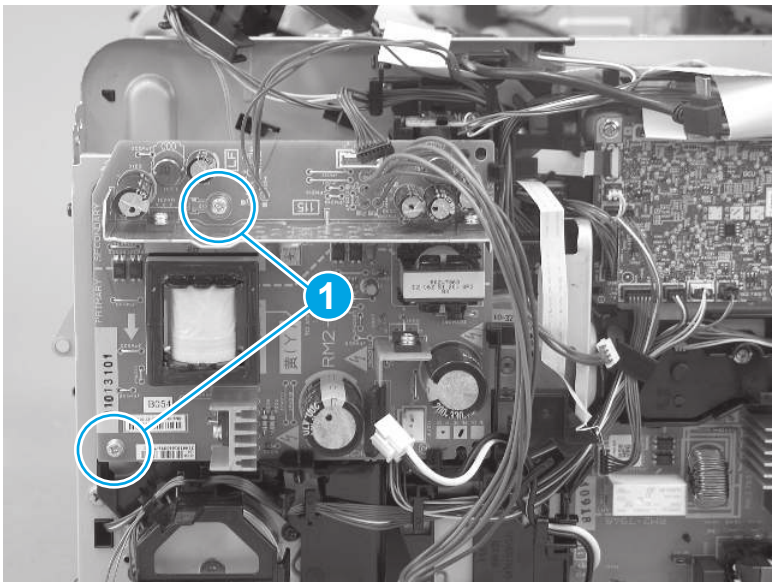
TIP: Squeeze the locking lever on the lower connector to release it.

Figure 1-1174 Disconnect two connectors



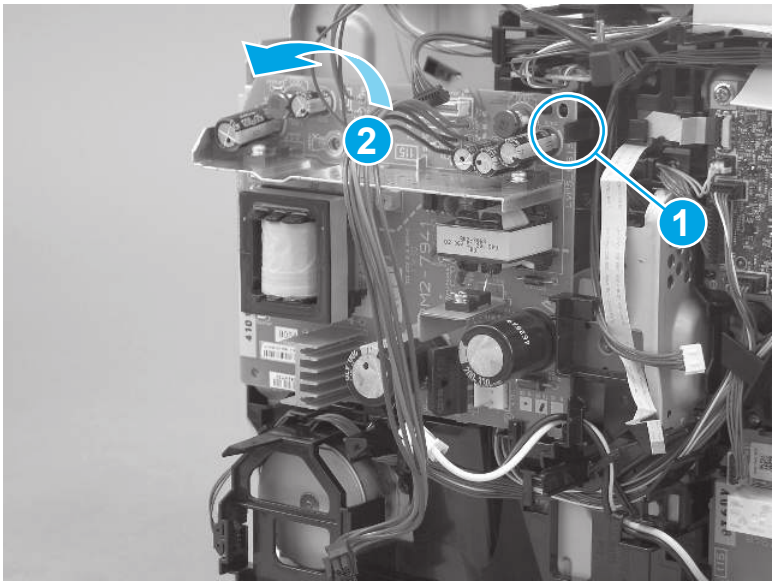
d. Remove two screws (callout 1).

Figure 1-1175 Remove two screws



e. Release one tab (callout 1), and then rotate the top of the LVPS out and away from the printer (callout 2).

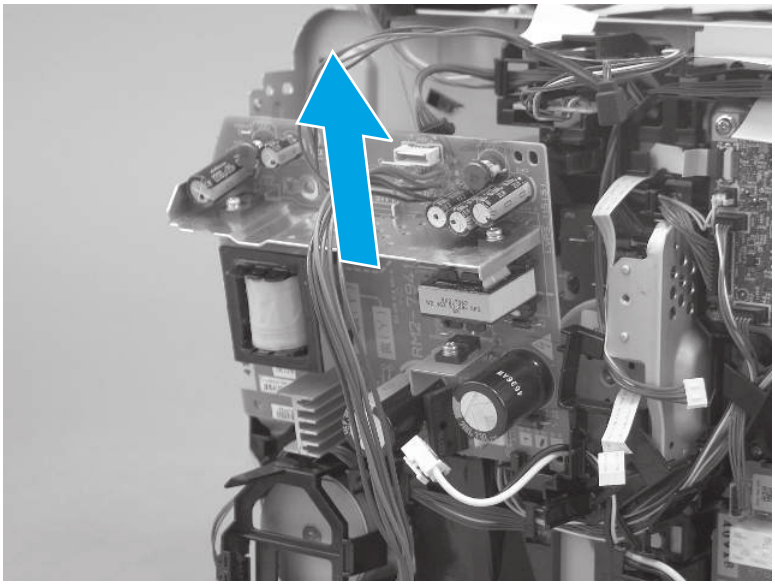
Figure 1-1176 Release one tab



f. Slide the LVPS up and away from the printer to release it.

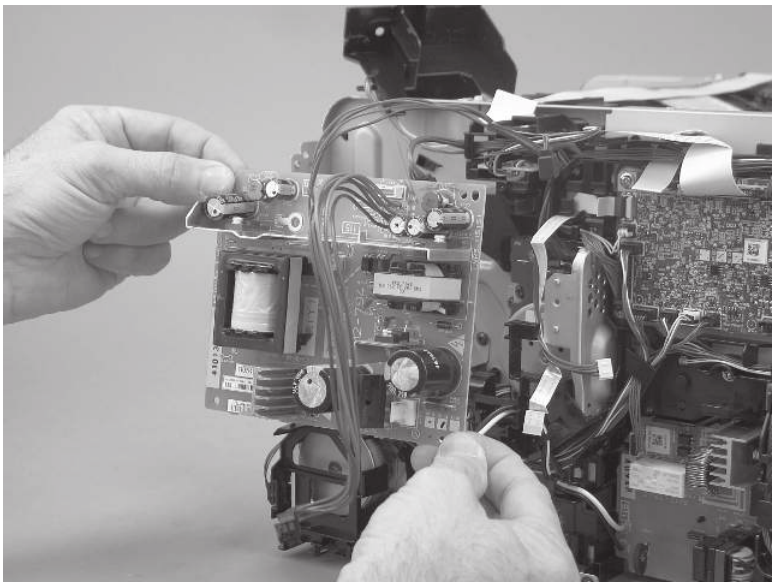
Reinstallation tip: Push down on the LVPS to make sure that it is fully seated on the holder.

Figure 1-1177 Release the LVPS



g. Remove the LVPS.

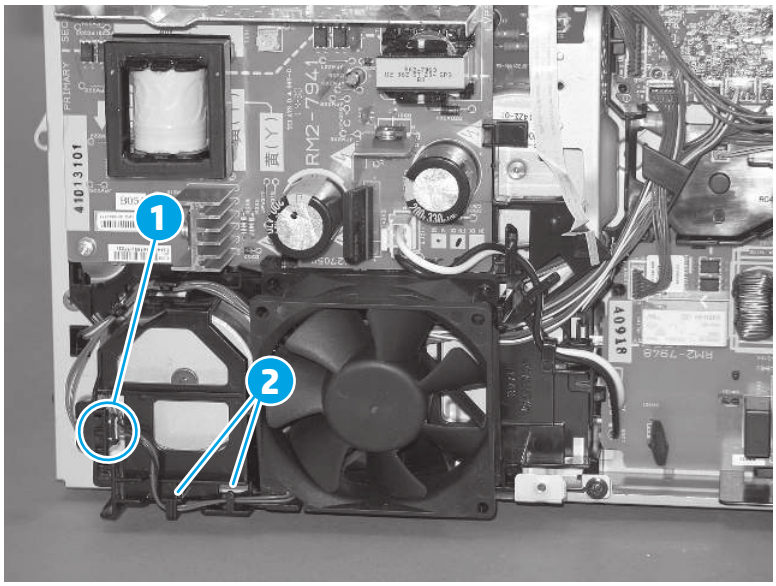
Figure 1-1178 Remove the LVPS



21. Remove the fan (FM2).

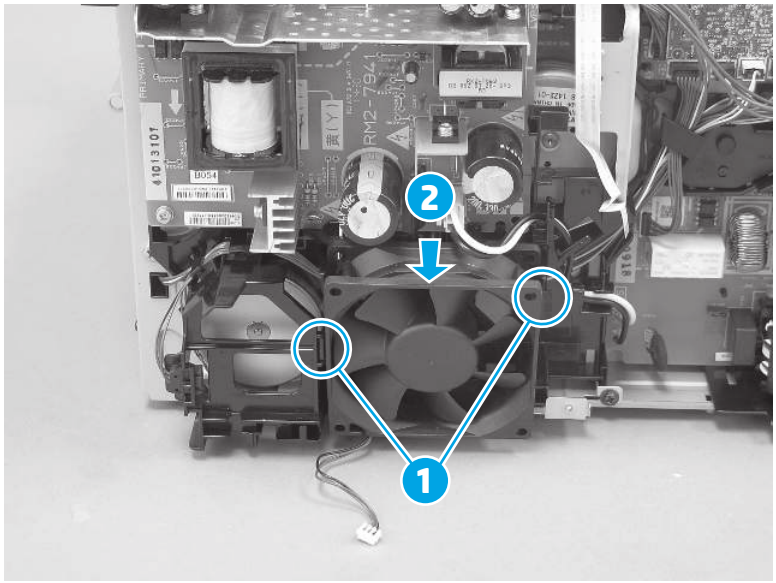
a. Disconnect one connector (callout 1), and then release the wire harness from the retainer (callout 2).

Figure 1-1179 Disconnect one connector



b. Release two tabs (callout 1), and then rotate the top of the fan out and away from the printer (callout 2).

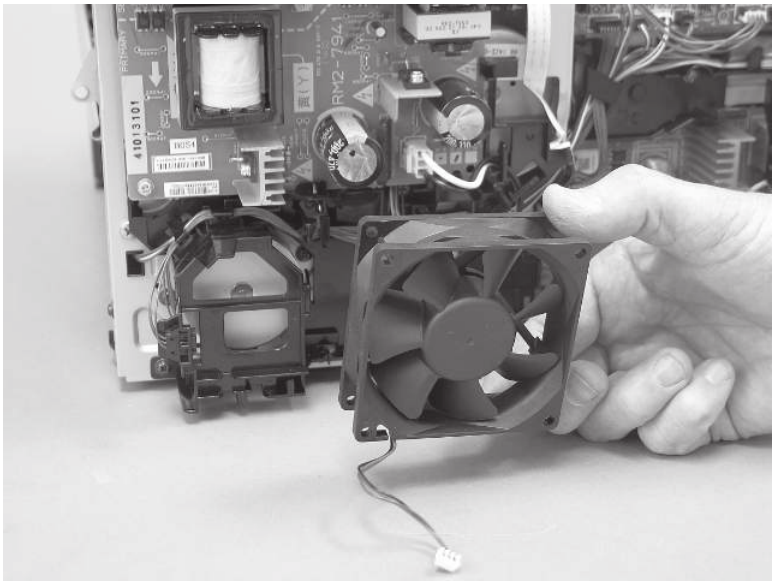
Figure 1-1180 Release two tabs



c. Remove the fan.

⚠ CAUTION: When reinstalled the fan must draw air into the printer. Make sure that the two arrows embossed on the right side of the fan body face downward and into the printer.

Figure 1-1181 Remove the fan

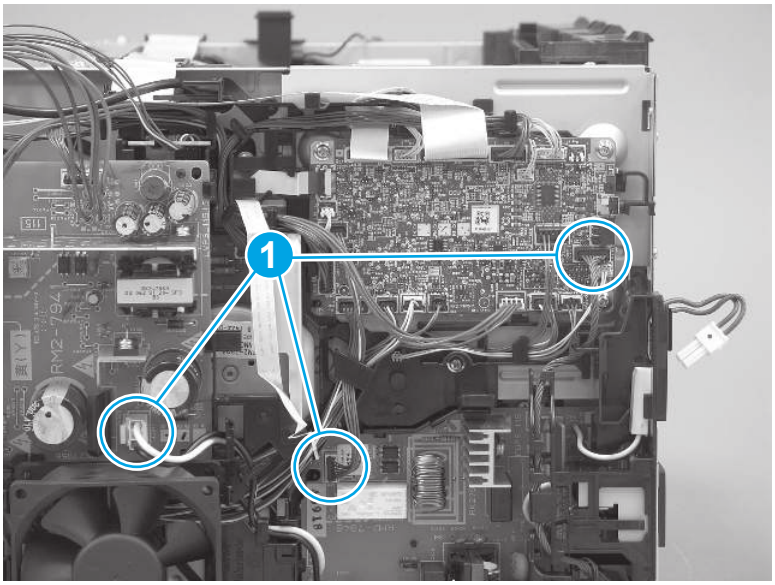


22. Remove the fuser power supply (FPS).

TIP: The FPS includes the optional paper feeder connector (Jetlink accessory tray connector) .

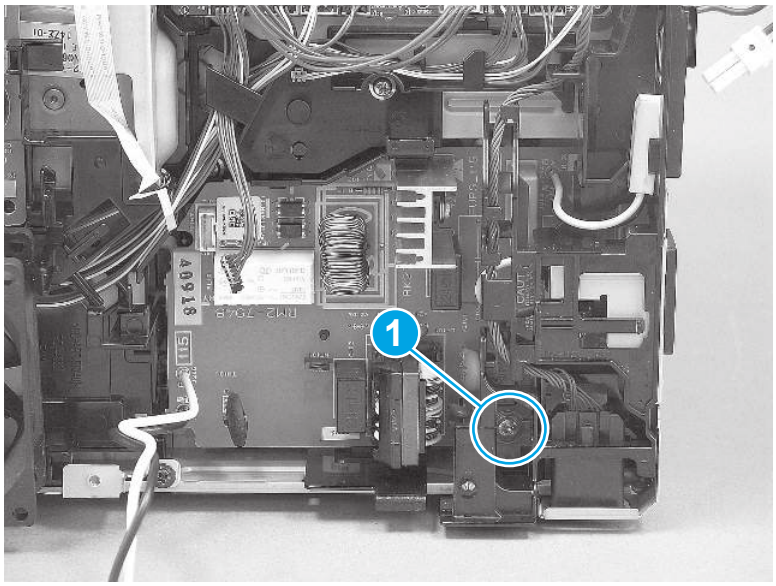
a. Disconnect three connectors (callout 1).

Figure 1-1182 Disconnect three connectors

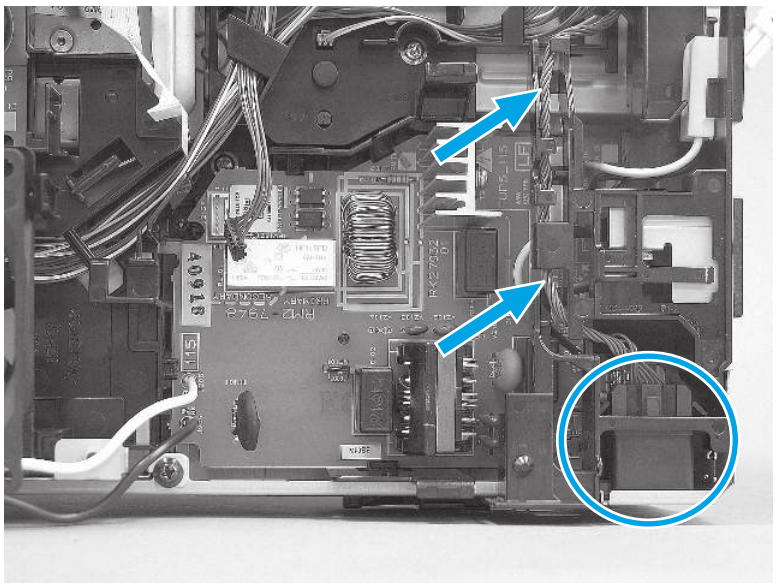


b. Remove one screw (callout 1).

Figure 1-1183 Remove one screw



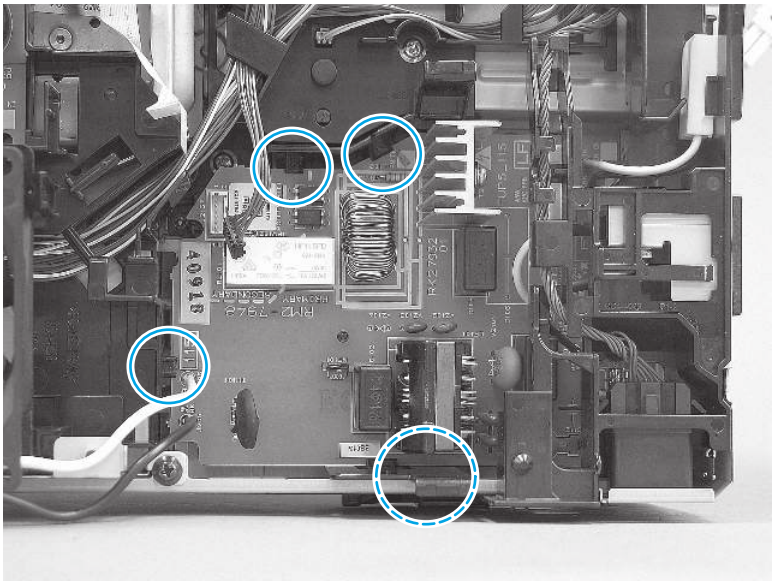
c. Disconnect the tray accessory connector (circle callout) and release the wire harness from the guide.



d. Release four tabs.

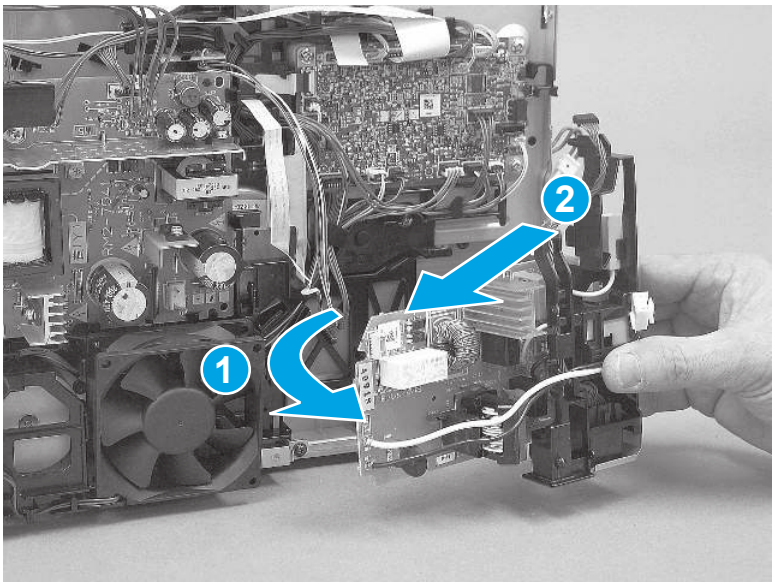
TIP: It might be easier to release the upper two tabs by using a small flat-blade screw driver.

Figure 1-1184 Release four tabs



e. Rotate the left end of the assembly out and away from the printer (callout 1), slide the assembly to the left to release the right side alignment pins (callout 2), and then remove the assembly.

Figure 1-1185 Remove the assembly

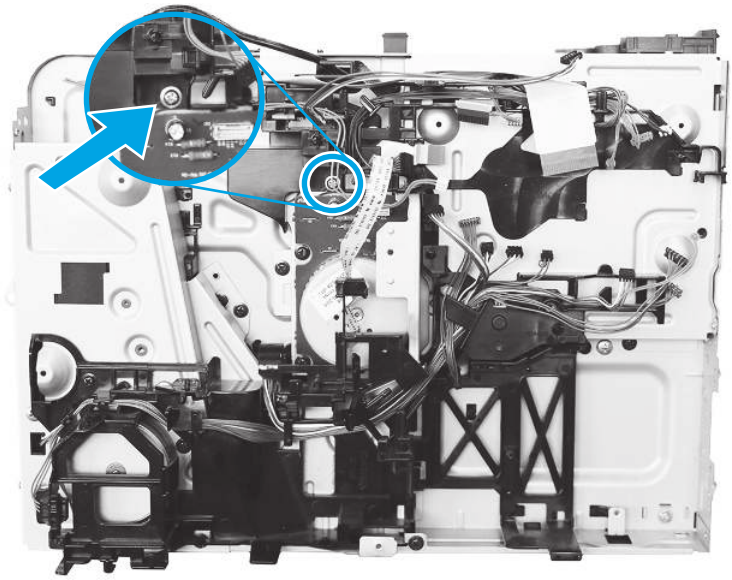


23. Remove internal cable and holder brackets.

IMPORTANT: It is recommended to bring the printer back to the shop to perform the following removal and replacement repairs.

NOTE: Lay the engine on its left side to make removal or the following parts easier.

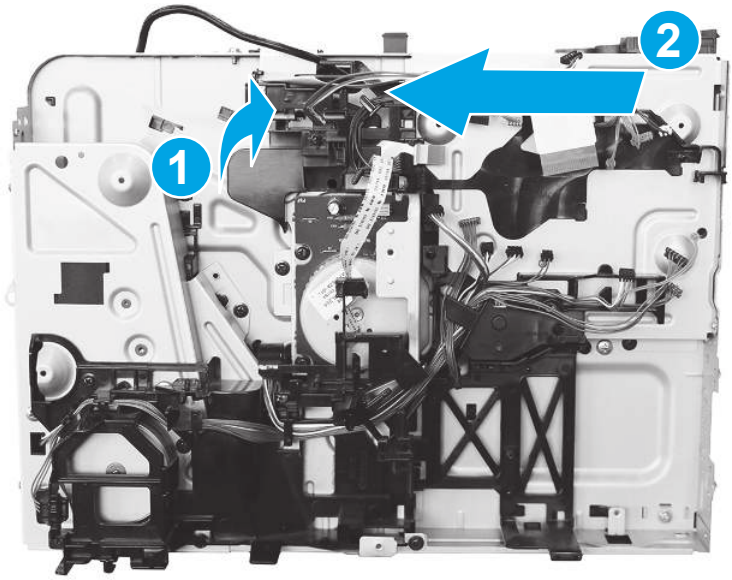
a. Remove one (1) screw from the upper cable bracket.



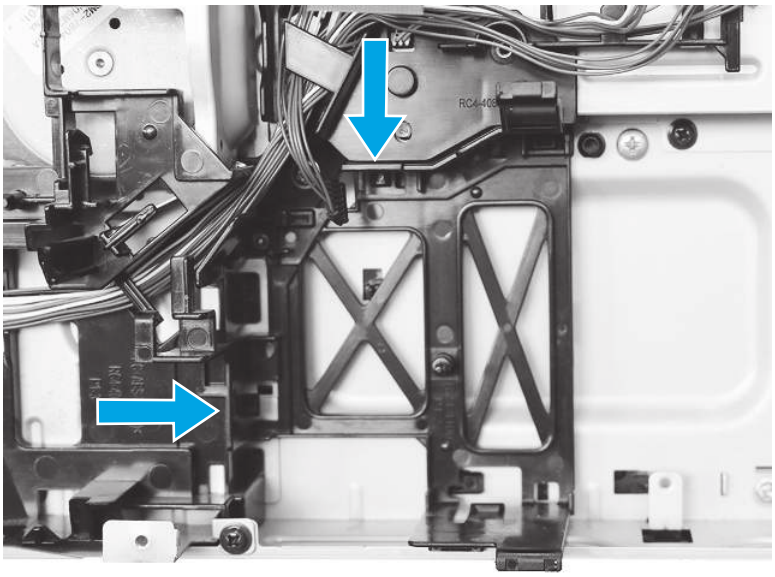
NOTE: The upper cable bracket assembly does not need to be completely removed, simply detached and then moved up out of the way and placed on the top of the printer.

b. Remove the cable routing from the upper cable bracket.

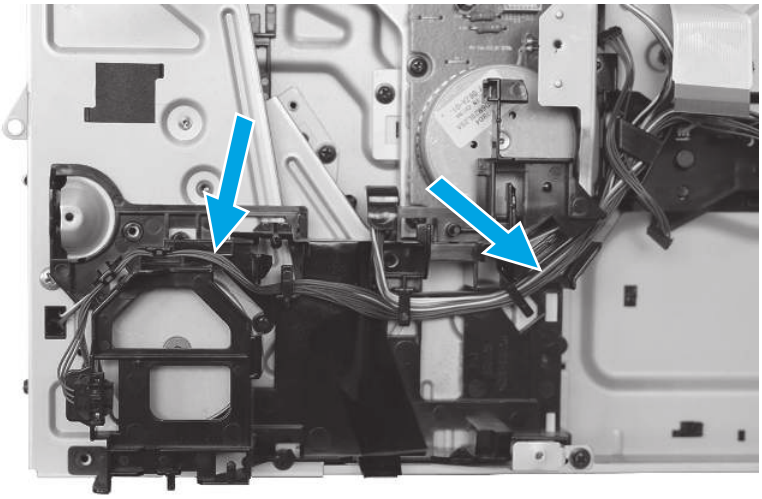
c. Lift up on the left side of the cable bracket (callout 1) and slide the bracket towards the front of the printer (callout 2) to remove the bracket.



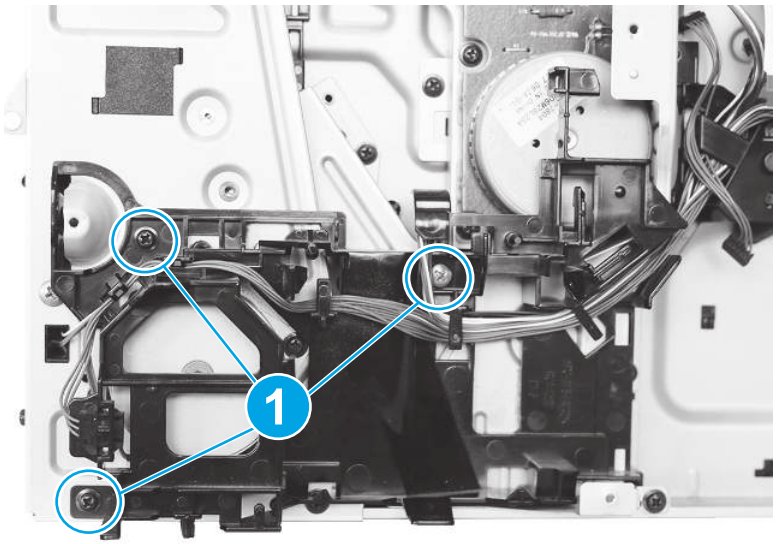
d. Remove the fuser power supply bracket (small lower rear bracket) by pulling in the upper and left side of the bracket and lifting it from the printer.



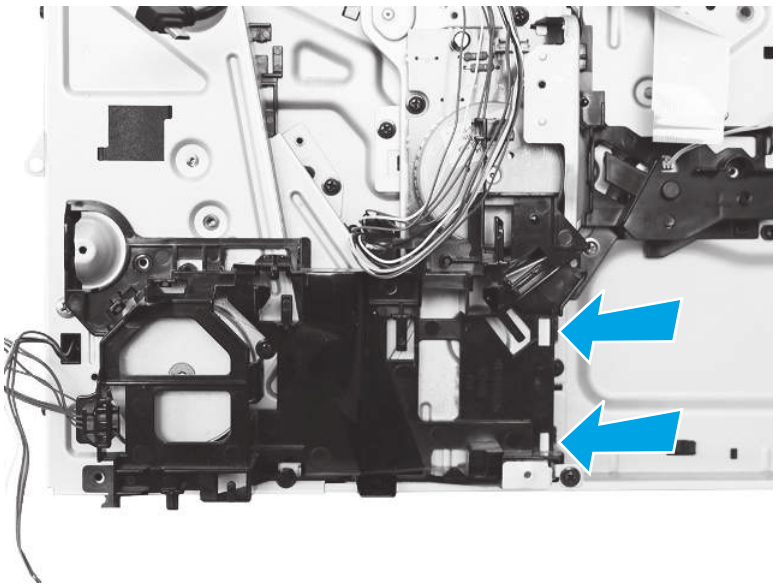
e. Remove the cables from the lower front cable bracket.



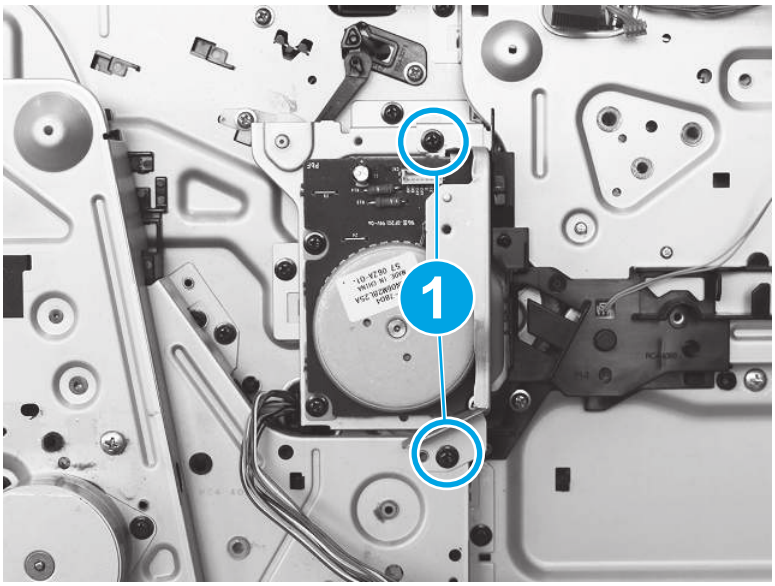
f. Remove three (3) screws (callout 1) from the bracket assembly.



g. Gently pry up the two (2) tabs on the lower right side of the bracket the remove the bracket from the printer.

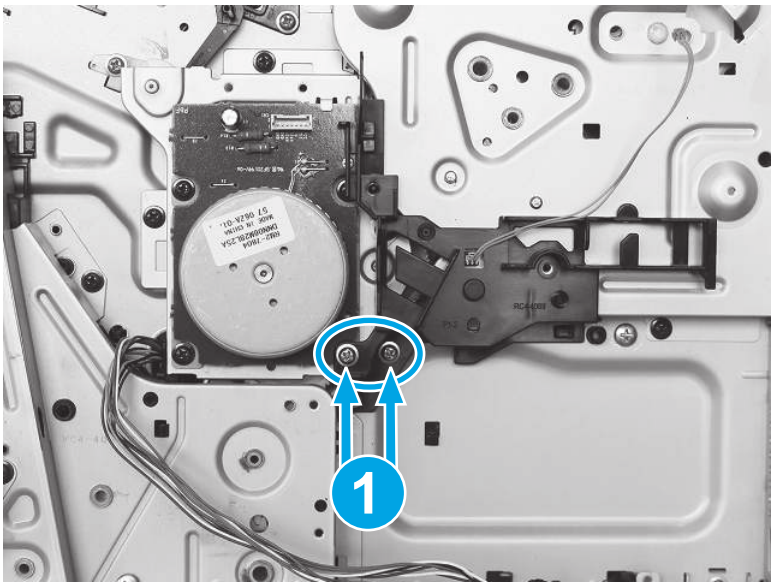


h. Remove two (2) screws (callout 1) from the metal M1 motor shield and remove the shield from the printer.



i. Remove three (2) screws (callout 1) and then remove the cable bracket located to the right of the main motor, M1.

NOTE: Carefully lift off the bracket to ensure that the clutch on the back of the guide does not fall off when removing.

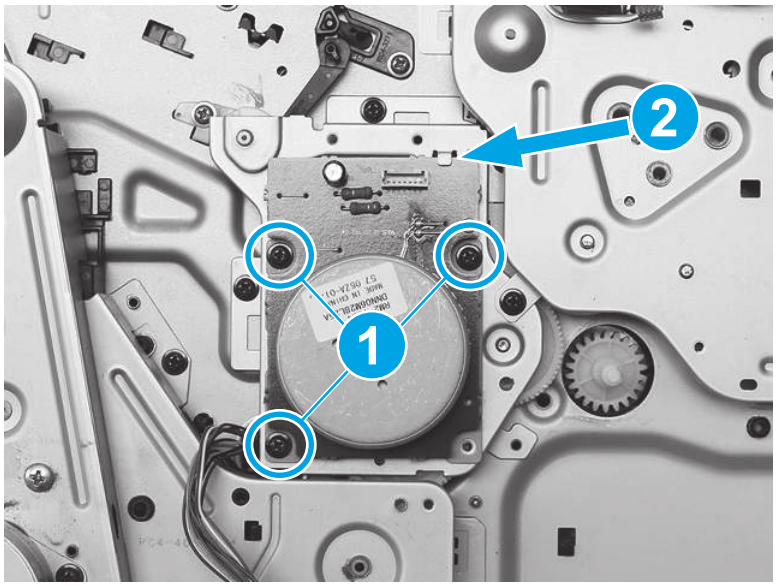


24. Remove the Main Motor M1.

IMPORTANT: It is recommended to bring the printer back to the shop to perform the following removal and replacement repairs.

NOTE: Lay the engine on its left side to make removal or the following parts easier.

▲ Remove three (3) screws from the main motor M1 and then remove the motor from the printer.



Reinstallation tip: When reinstalling the main motor, ensure that the motor board fits under the tab (Callout 2). Start all three (3) screws to hold the motor in place while adjusting the motor to ensure that it seats correctly then tighten all three screws.

25. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Removal and replacement: Paper feed drive assembly

Learn how to remove and replace the Paper feed drive assembly.

IMPORTANT: It is recommended to bring the printer back to the shop to perform the following removal and replacement repairs.

Mean time to repair: 60 minutes

Service level: Hard

Before performing service

Turn the printer power off

- Disconnect the power cable.

WARNING! To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-44 Part information

Part number	Part description
RM2-5715-000CN	Paper feed drive assembly

Required tools

- Small flat-blade screwdriver
- #2 Phillips screwdriver with a magnetic tip and a 152 mm (6 in) shaft length

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

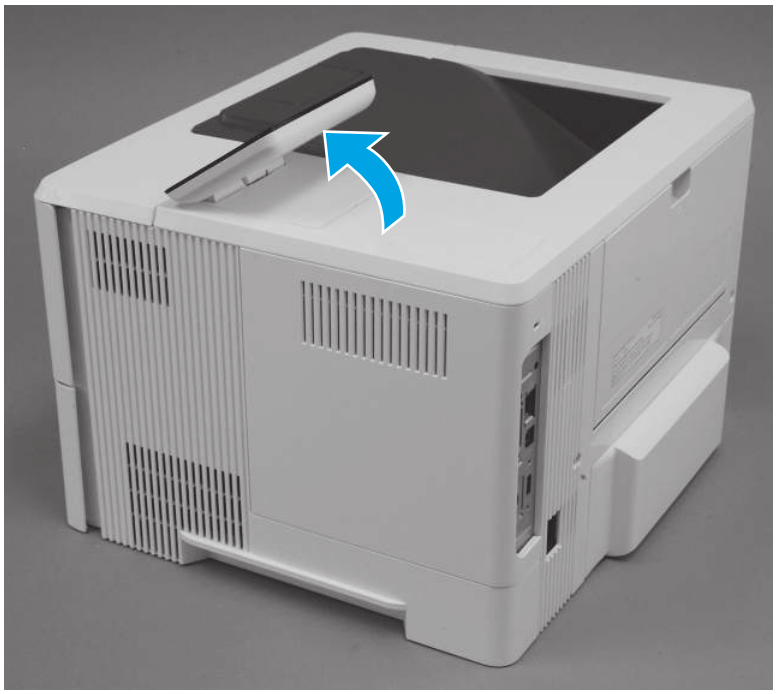
Post service test

Make sure that the printer initializes to a **Ready** state.

1. Remove the control panel (M506x/E50045x/M507x/E50145x).

a. Tilt the control panel to the fully raised position.

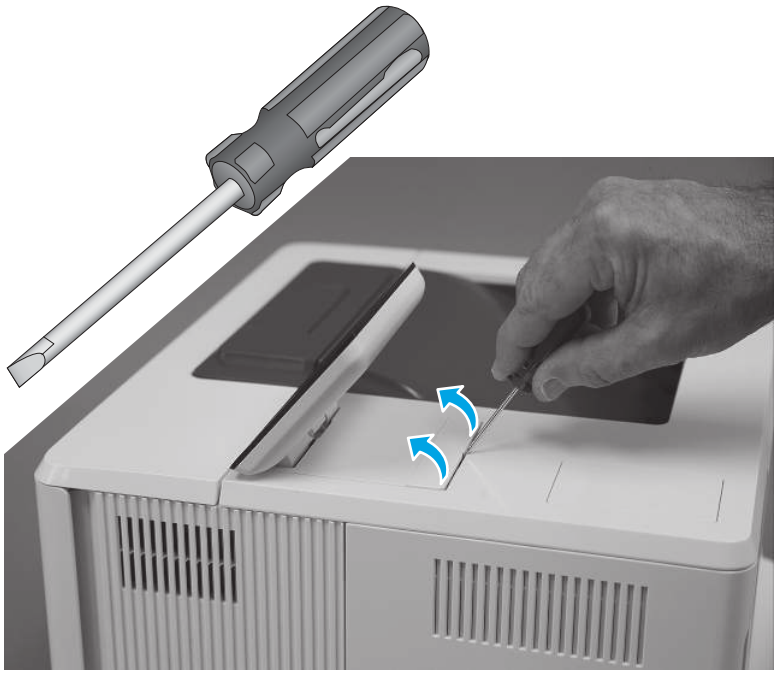
Figure 1-1186 Tilt the control panel up



b. Use the small flat-blade screwdriver supplied in the kit to release the control-panel screws cover, and then remove the cover.

TIP: The screwdriver has a reversible shaft. Simply pull the shaft out of the handle, and then reinstall it with the desired end facing out.

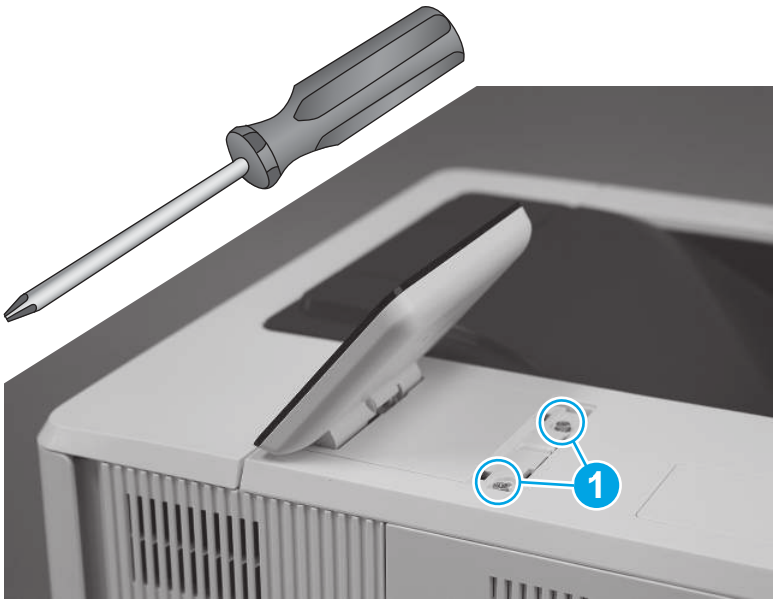
Figure 1-1187 Remove the cover



c. Use the small Phillips screwdriver supplied in the kit to remove two screws (callout 1).

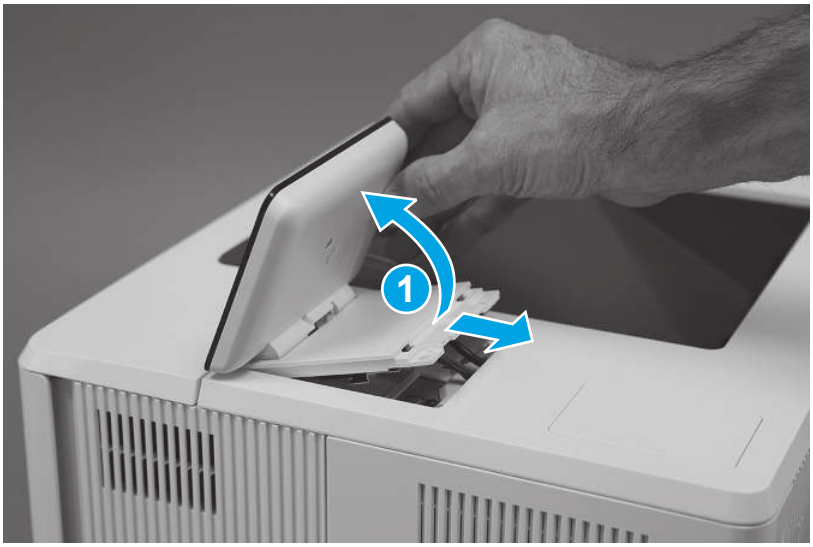
IMPORTANT: Store the screws in a secure place where they cannot fall down into the printer.

Figure 1-1188 Remove two screws



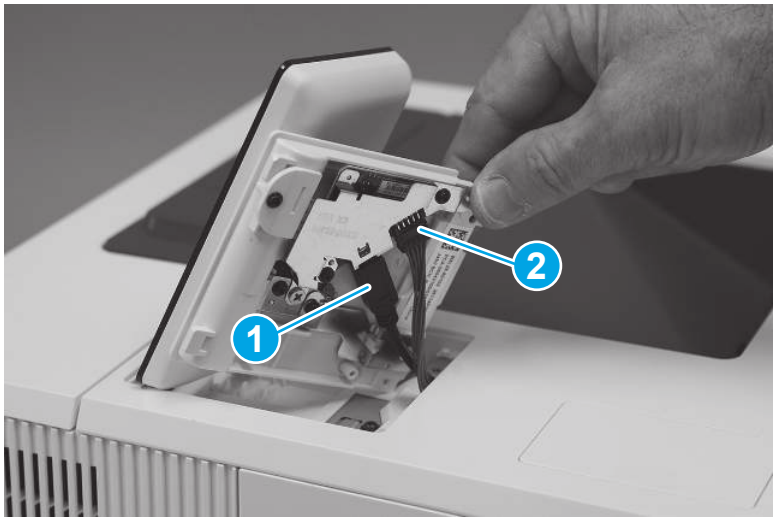
d. Turn the control panel over (callout 1), to gain access to the bottom side.

Figure 1-1189 Turn the control panel over



e. **M506/E50045 only**: Disconnect one HDMI cable (callout 1), one connector (callout 2), and then remove the control panel.

Figure 1-1190 Remove the control panel (M506/E50045)



f. **M507/E50154 only**: If the formatter cover has not been removed, remove it now. Disconnect one flat-flexible cable (FFC).

⚠ CAUTION: ESD sensitive part.

NOTE: This connector is a zero-insertion force (ZIF) connector. Open the locking clip. The clip is easily dislodged and lost.

Figure 1-1191 Disconnect one FFC (M507/E50145)

g. **M507/E50145 only**: Pass the FFC through the opening in the cover, and then remove the control panel.

⚠ CAUTION: ESD sensitive part.

Figure 1-1192 Remove the control panel (M507/E50145)

2. Remove the tray.

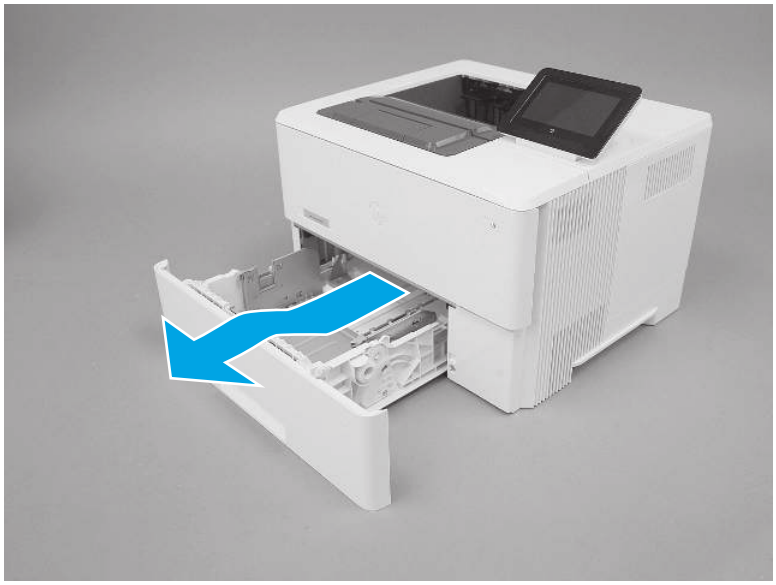
   a. Pull the tray straight out of the printer until it stops.

   Figure 1-1193 Pull the tray out until it stops

   b. Lift the front of the tray, and then pull it out of the printer to remove it.

NOTE: If the tray has Fixed Tray Guides installed and are still required, move the hardware to new tray. If necessary, order new kit: 3GY19-67901 Kit-Fixed Tray Guide. Only one kit required per engine.

Figure 1-1194 Release and remove the tray

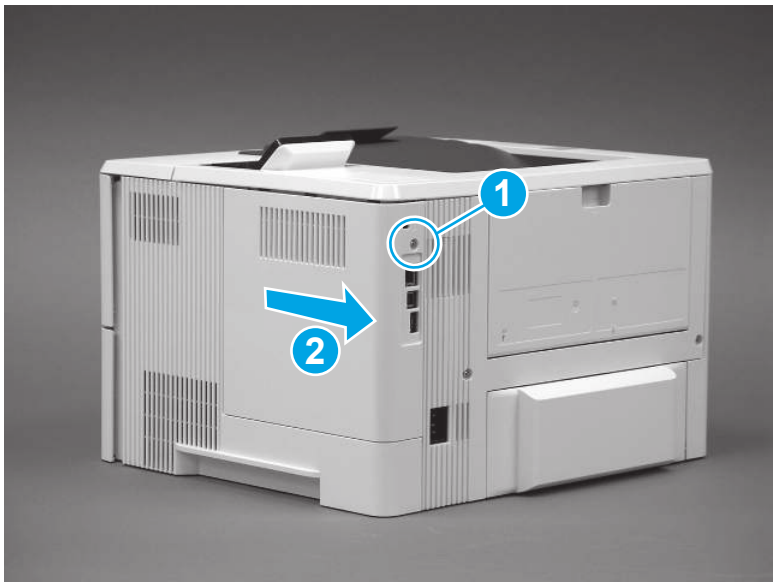


3. Remove the formatter cover.

▲ Do one of the following:

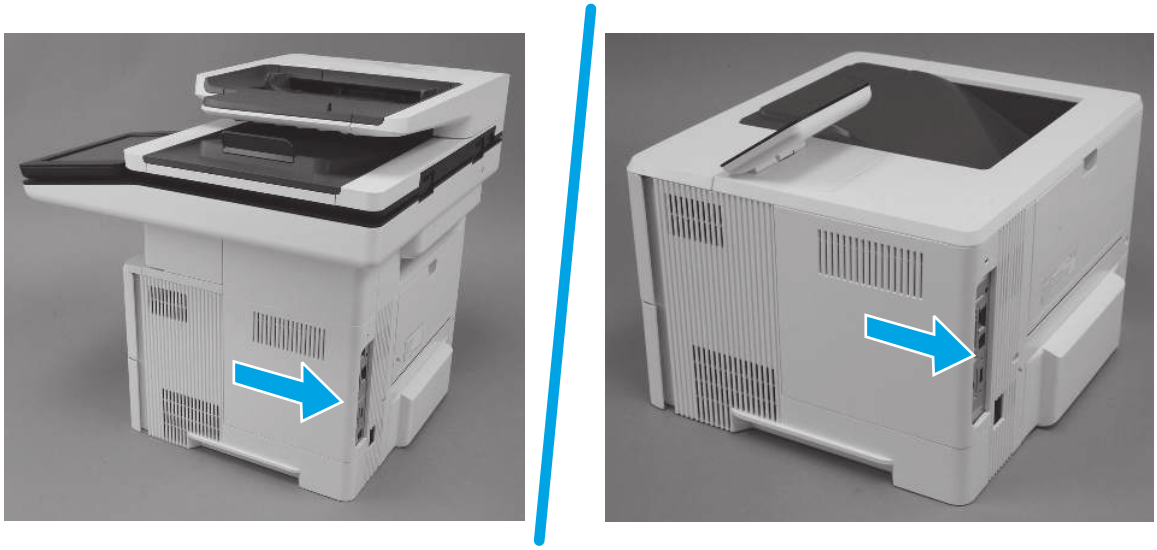
- M501: Remove one screw (callout 1), and then slide the cover toward the rear of the printer to remove it (callout 2).

Figure 1-1195 Remove the formatter cover (M501)



- M506/E50045/M507/E50145/M527/E52545/M528/E52645: Slide the cover toward the rear of the printer to remove it.

Figure 1-1196 Remove the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)

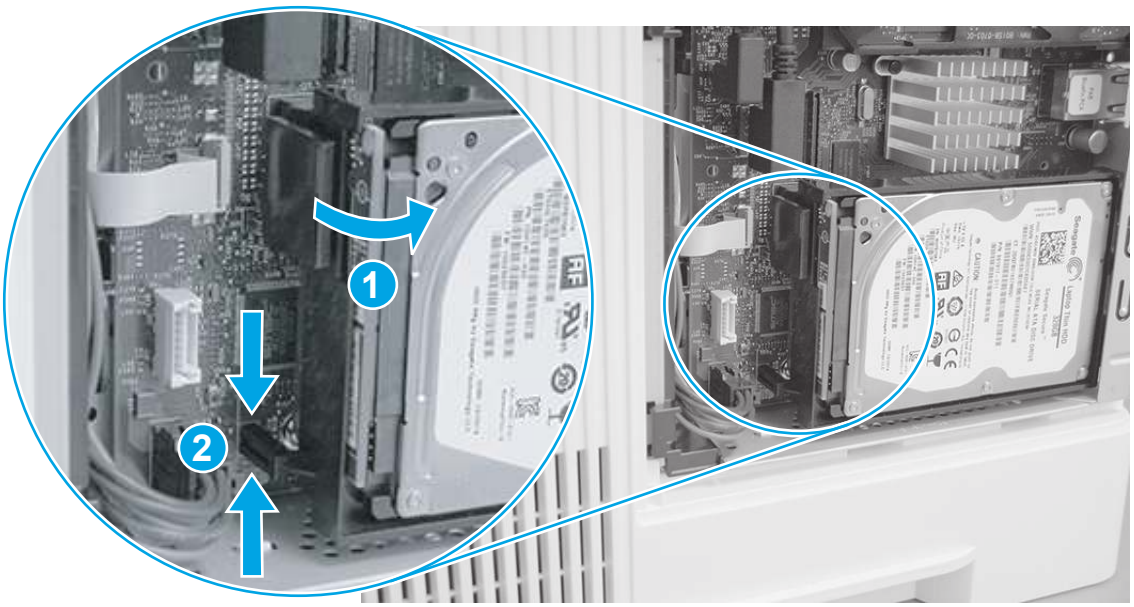


4. Remove the hard-disk drive (HDD models).

CAUTION: ESD sensitive part.

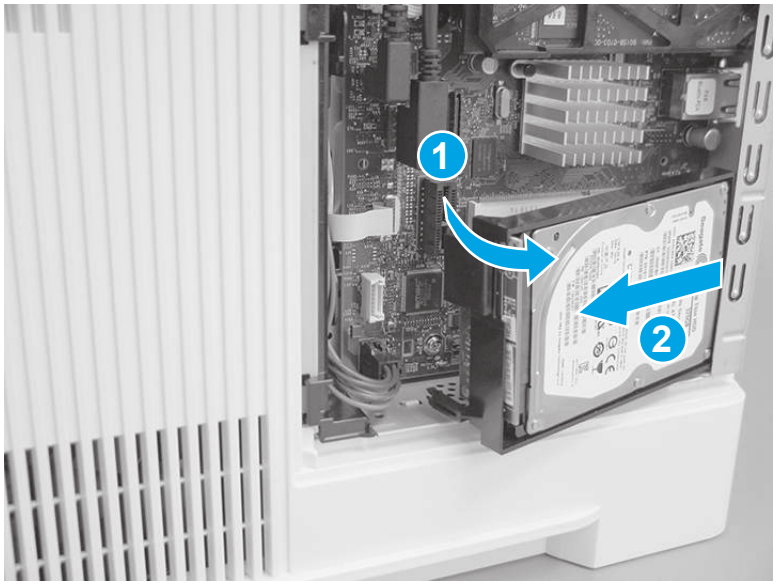
a. Release the locking connector (callout 1), and then pinch the retainer (callout 2) to release it.

Figure 1-1197 Release the HDD



b. Rotate the connector end of the HDD out and away from the formatter (callout 1), and then slide it as shown (callout 2) to remove it.

Figure 1-1198 Remove the HDD

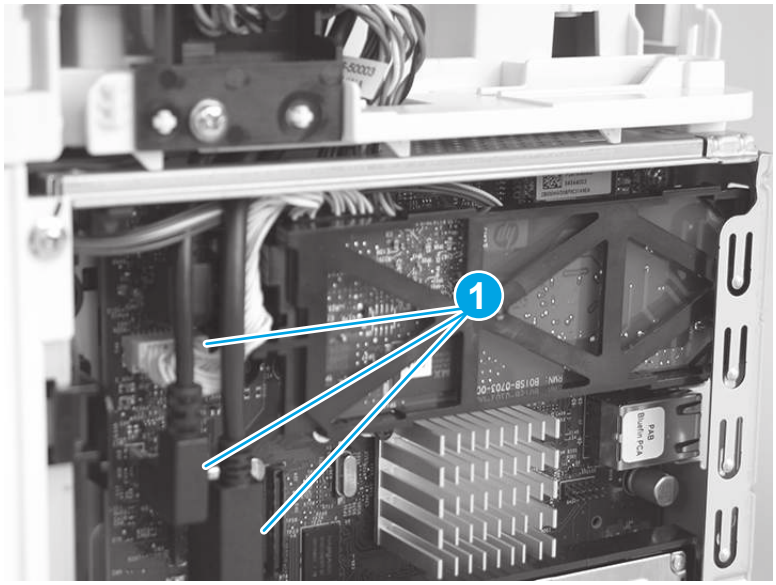


5. Remove the fax PCA (M527/E52545/M528/E52645 fax models).

⚠ CAUTION: ESD-sensitive part.

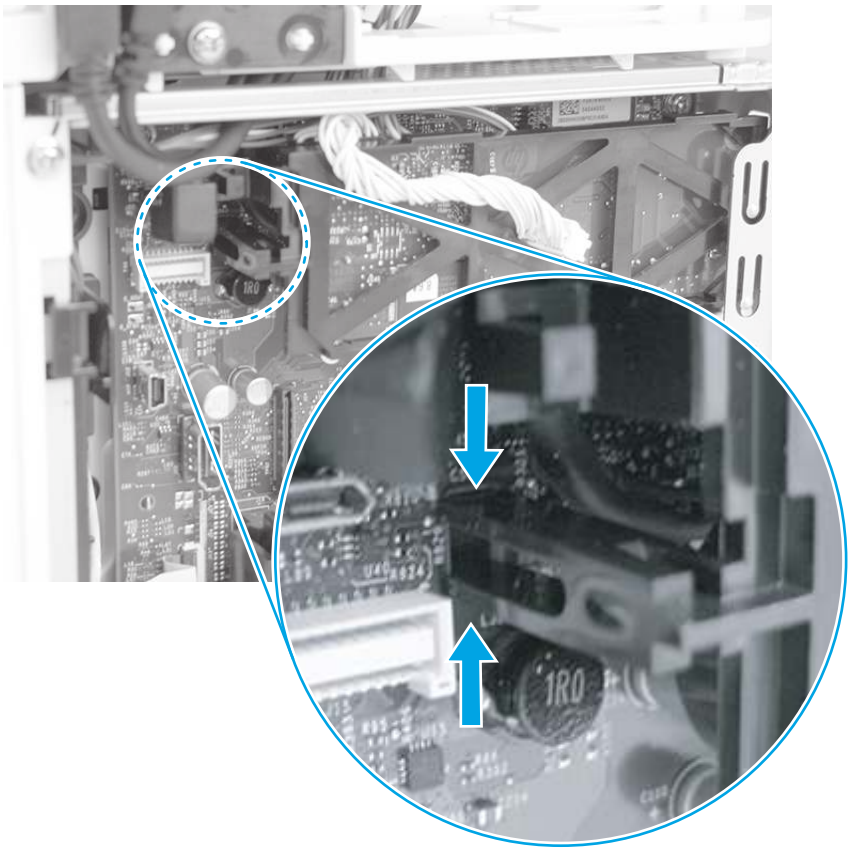
a. Disconnect three connectors (callout 1).

Figure 1-1199 Disconnect three connectors



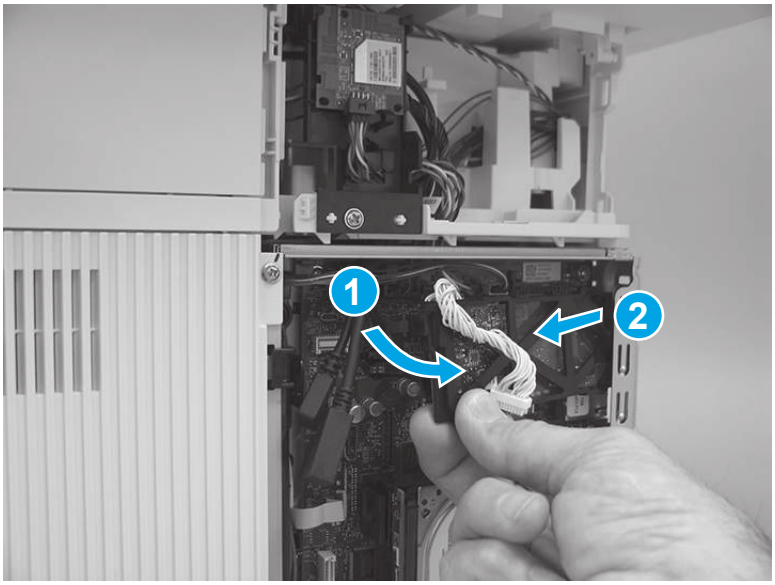
b. Pinch the retainer to release it.

Figure 1-1200 Release the fax PCA



c. Rotate the connector end of the fax PCA out and away from the formatter (callout 1), and then slide it as shown (callout 2) to remove it.

Figure 1-1201 Remove the fax PCA



6. Remove the formatter.

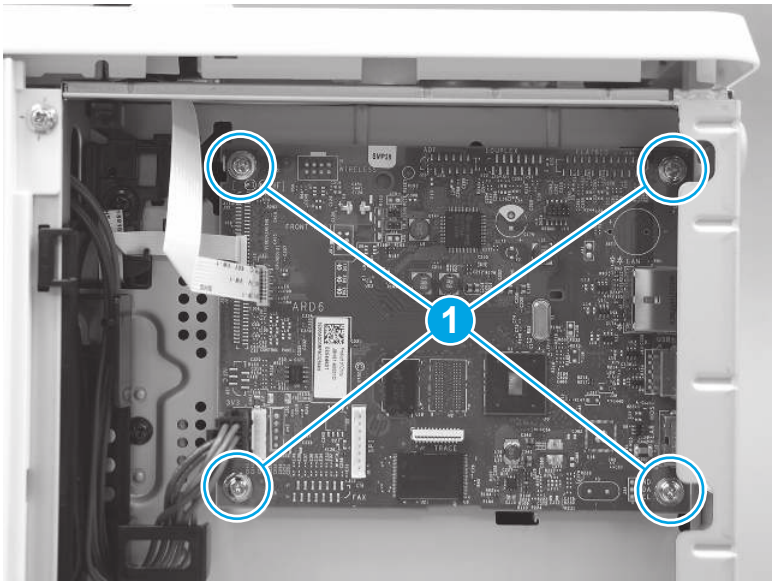
CAUTION: Never remove and then install a replacement DCC and formatter at the same time. Doing so will cause the printer to become unstable.

If a replacement DCC and formatter must be installed, first remove and install the formatter. Test operate the printer, and then if necessary install a replacement DCC.

IMPORTANT: Take note of all empty connectors on the PCA before disconnecting any wire harnesses or flat-flexible cables (FFCs). Some empty connectors might not be visible until other items—like the hard-disk drive—are removed, so pay close attention while removing the formatter and accessory items.

a. M501: Disconnect all of the connectors and FFCs, remove four screws (callout 1), and then remove the formatter.

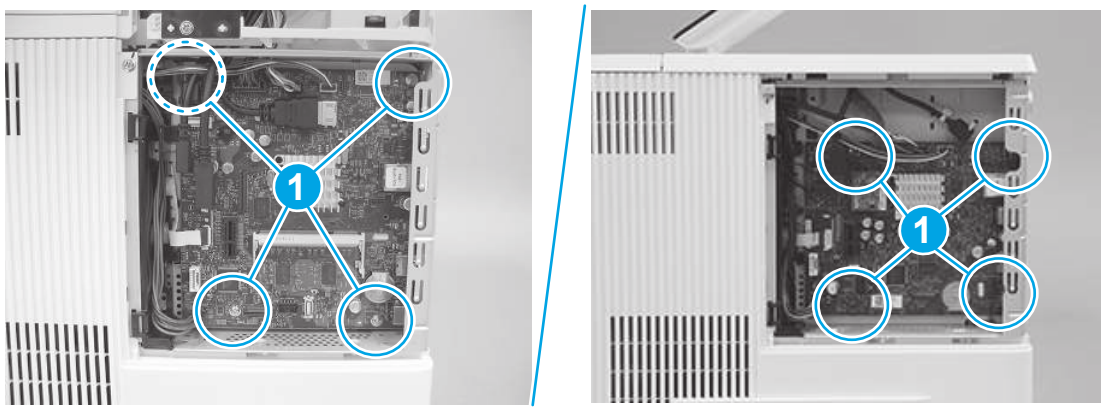
Figure 1-1202 Remove the formatter (M501)



b. M506/E50045/M507/E50145/M527/E52545/M528/E52645: Disconnect all of the connectors and FFCs, remove four screws (callout 1), and then remove the formatter.

IMPORTANT: Take note of all empty connectors on the formatter before disconnecting any wire harnesses or flat-flexible cables (FFCs). Some empty connectors might not be visible until other items—like the hard-disk drive—are removed, so pay close attention while removing the formatter and accessories items.

Figure 1-1203 Remove the formatter (M506/E50045/M507/E50145/M527/E52545/M528/E52645)

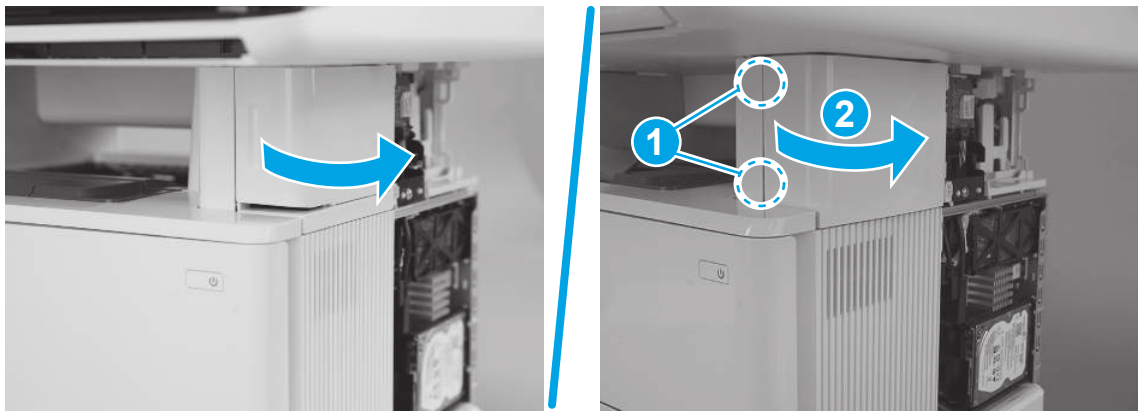


7. Remove the stapler door or stapler blank cover (M527/E52545/M528/E52645).

   a. Do one of the following:

      - **Stapler models**: Open the stapler door.
      - **Non-stapler models**: Use a small flat-blade screw driver to release two tabs (callout 1), and then rotate the cover away from the printer (callout 2).

Figure 1-1204 Open the door or release the cover



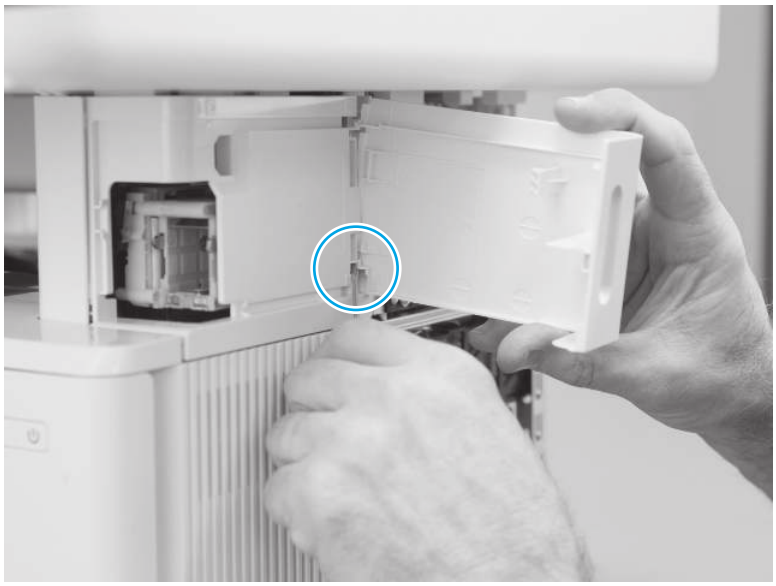
   b. Do one of the following:

      - **Stapler models**: Use a small flat-blade screwdriver to release the upper hinge.
      - **Non-stapler models**: Slide the cover toward the front of the printer to remove it.

Figure 1-1205 Release the upper hinge or remove the cover

c. **Stapler models**: Use a small flat-blade screwdriver to release the lower hinge.

Figure 1-1206 Release the lower hinge



d. **Stapler models**: Remove the door.

Figure 1-1207 Remove the door

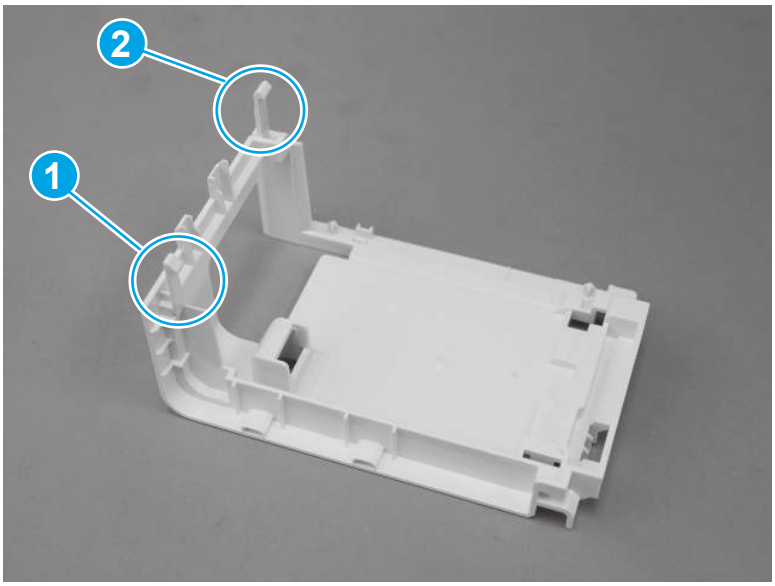
8. Remove the stapler stationary (inner) cover (M527/E52545/M528/E52645).

NOTE: Stapler models only.

a. Before proceeding, take note of the locations of the upper tab (callout 1) and the lower tab (callout 2) on the stapler stationary (inner) cover.

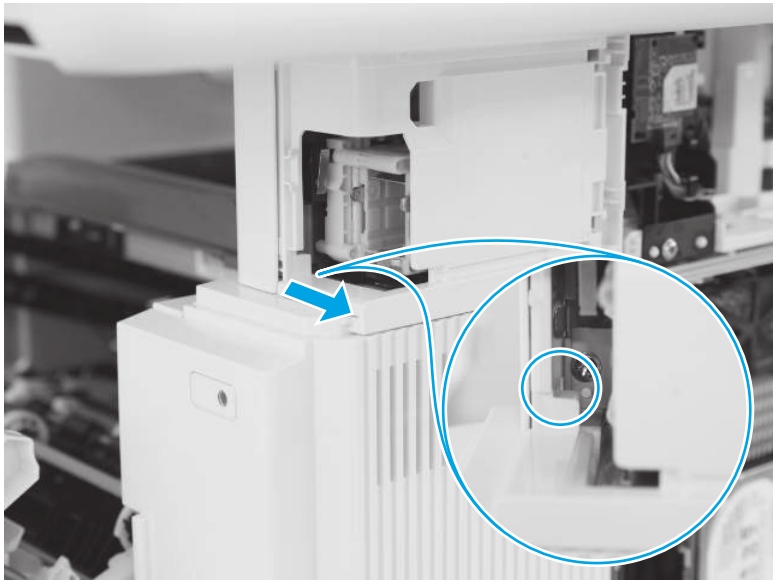
Reinstallation tip: When reinstalling the cover, take note of the location of the tabs.

Figure 1-1208 Locate the tabs



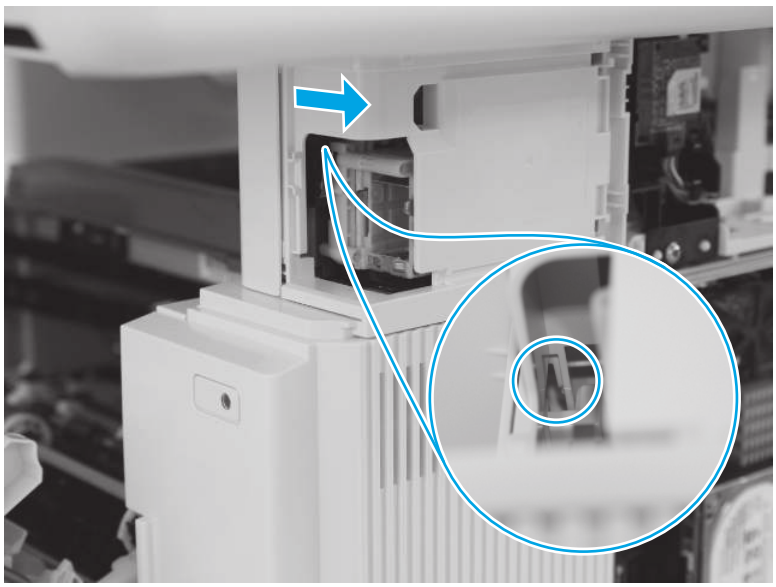
b. Use a long-shaft small flat-blade screwdriver to release the lower tab.

Figure 1-1209 Release one tab



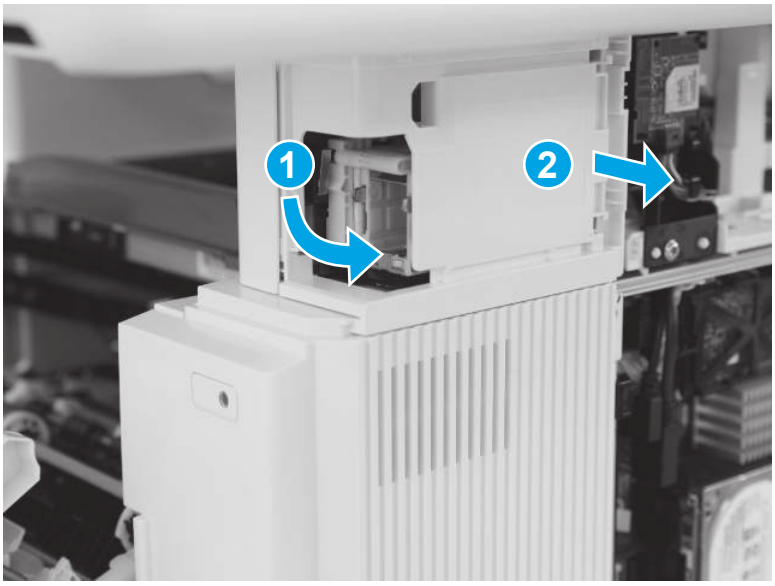
c. Use a long-shaft small flat-blade screwdriver to release the upper tab.

Figure 1-1210 Release one tab



d. With the tabs disengaged the front of the cover is released. Rotate the front of the cover away from the printer (callout 1) to release the rear of the cover (callout 2), and then remove it.

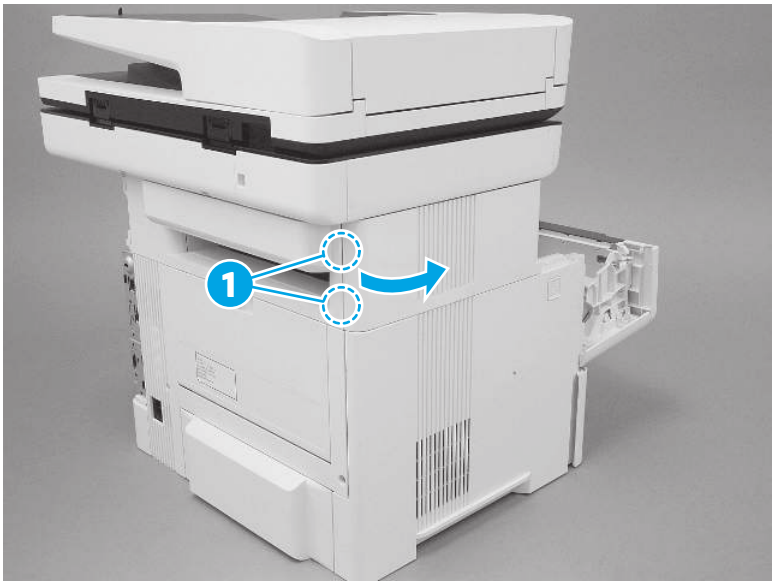
Figure 1-1211 Remove the cover



9. Remove the top-left cover (M527/E52545M528/E52645).

a. Open the toner-cartridge door, release two tabs (callout 1), and then rotate the rear edge of the cover away from the printer.

Figure 1-1212 Release two tabs



b. Continue to rotate the cover away from the printer to release two more tabs at the middle of the cover.

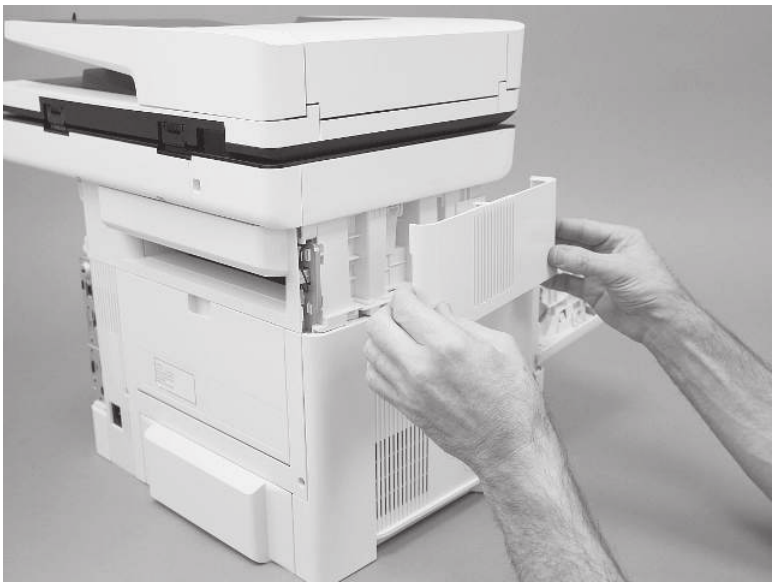
Figure 1-1213 Release two tabs

c. Slide the cover toward the rear of the printer to release two bosses at the front of the cover.

Figure 1-1214 Slide the cover

d. Remove the cover.

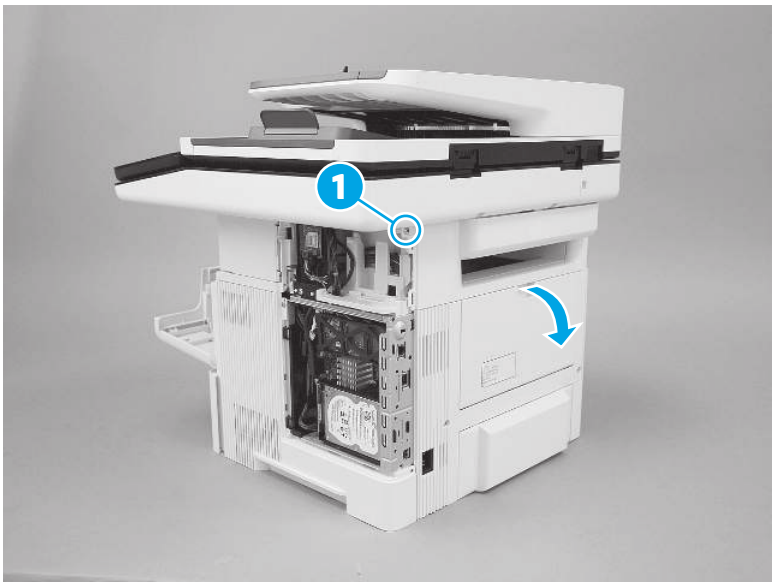
Figure 1-1215 Remove the cover



10. Remove the top-rear cover (M527/E52545/M528/E52645).

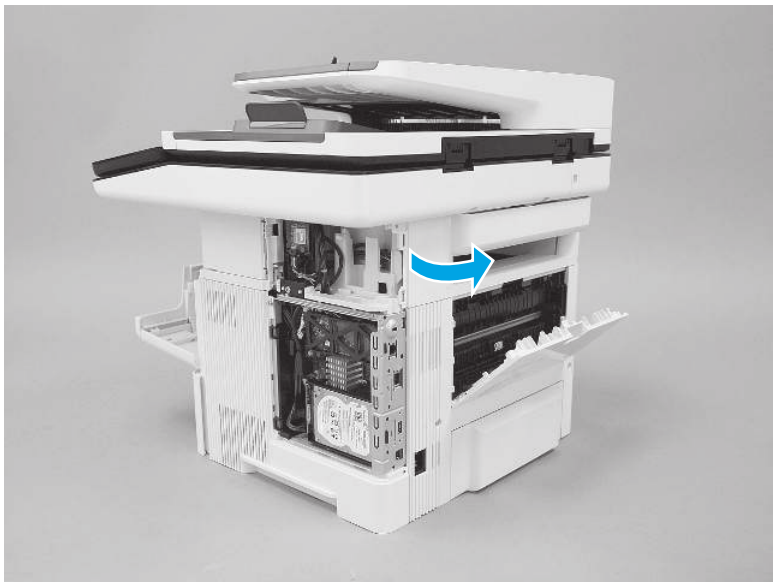
a. Remove one screw (callout 1), and then open the rear door.

Figure 1-1216 Remove one screw



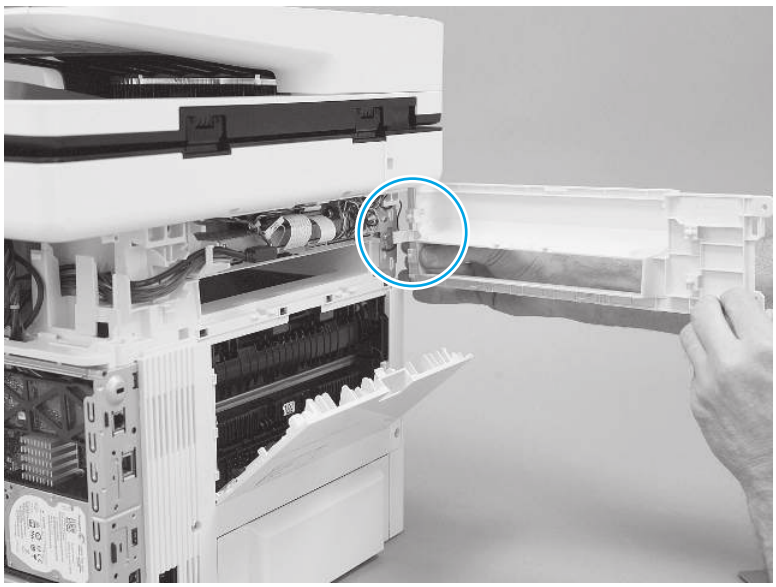
b. Rotate the exposed edge of the cover away from the printer (as shown).

Figure 1-1217 Rotate the cover



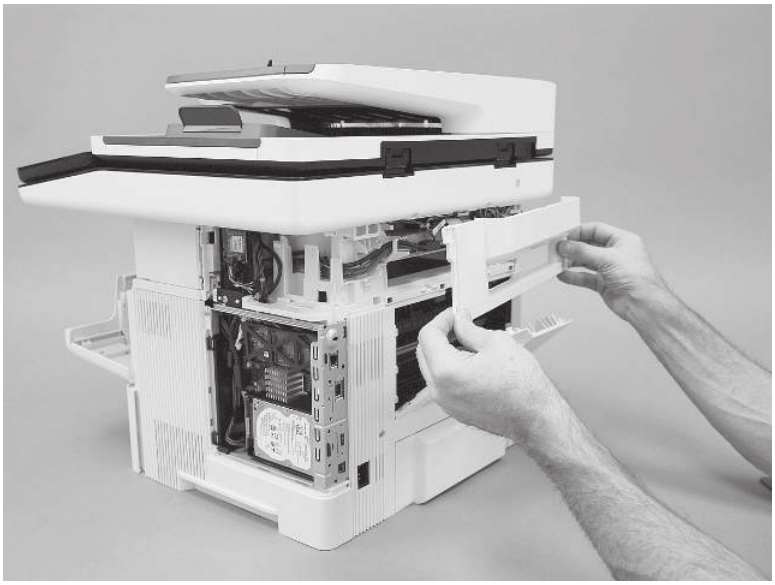
c. Continue to rotate the cover away from the printer to release one boss.

Figure 1-1218 Release one boss



d. Remove the cover.

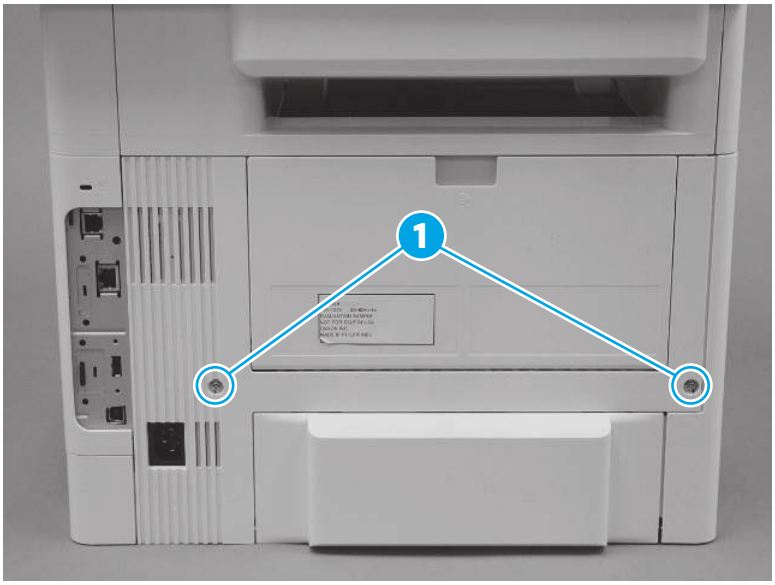
Figure 1-1219 Remove the cover



11. Remove the rear door assembly.

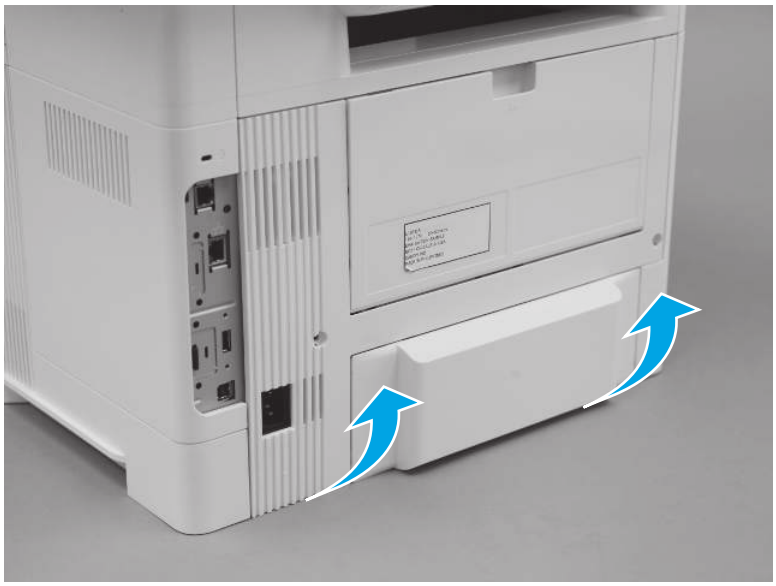
a. At the rear of the printer, remove two screws (callout 1).

Figure 1-1220 Remove two screws



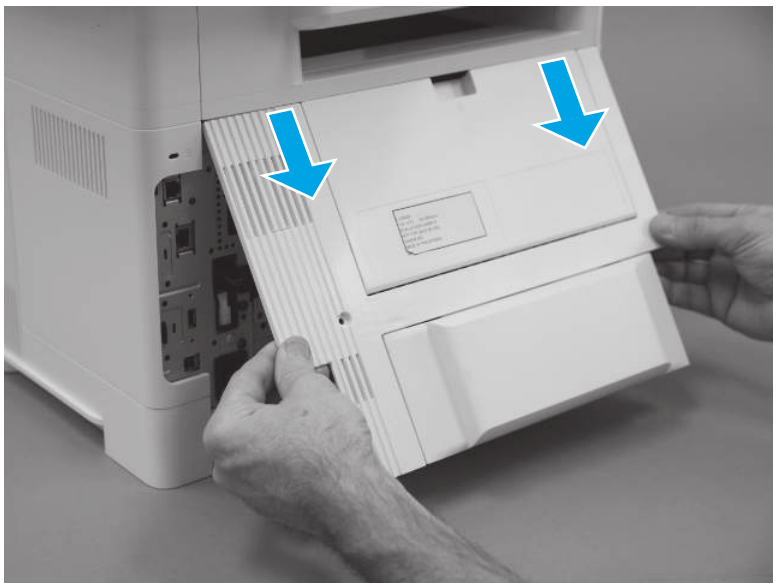
b. Rotate the bottom edge of the assembly away from the printer to release it.

Figure 1-1221 Rotate the bottom of the cover



c. Pull down on the assembly to remove it.

Figure 1-1222 Remove the cover



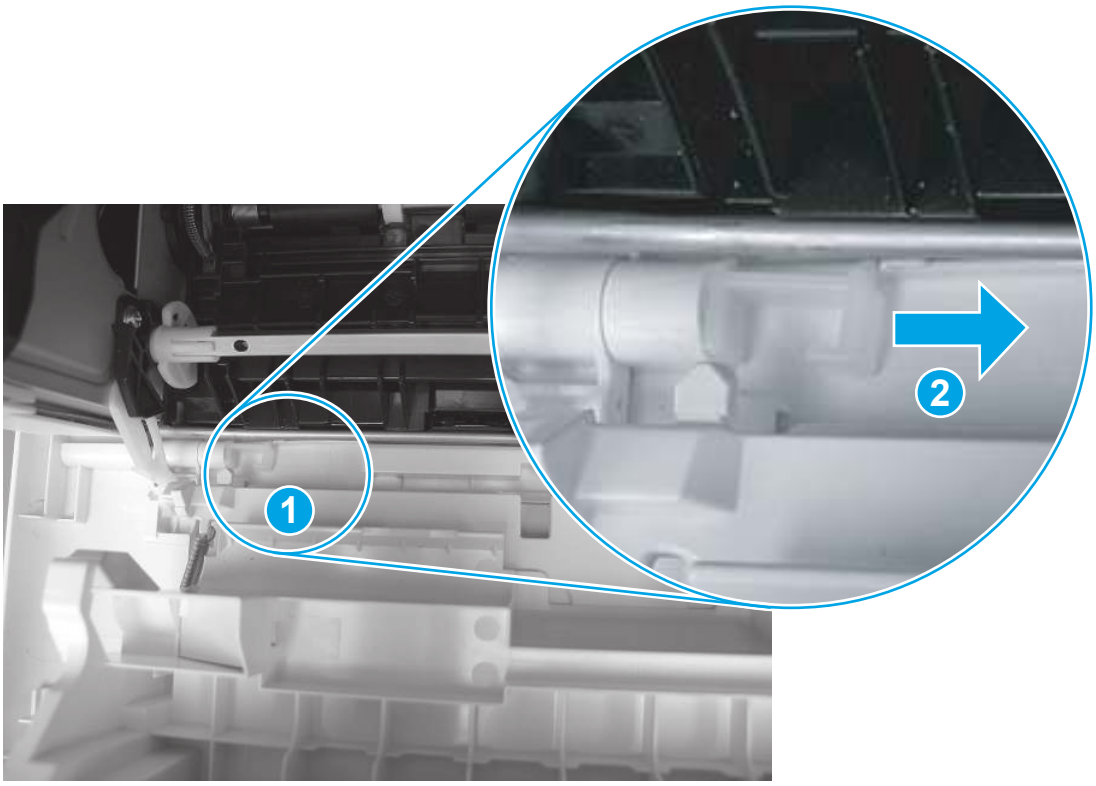
12. Remove the cartridge door assembly.

NOTE: If the toner cartridge was not removed prior to servicing the printer, remove it now.

a. Release the support shaft (callout 1), and then slide it toward the center of the door (callout 2).

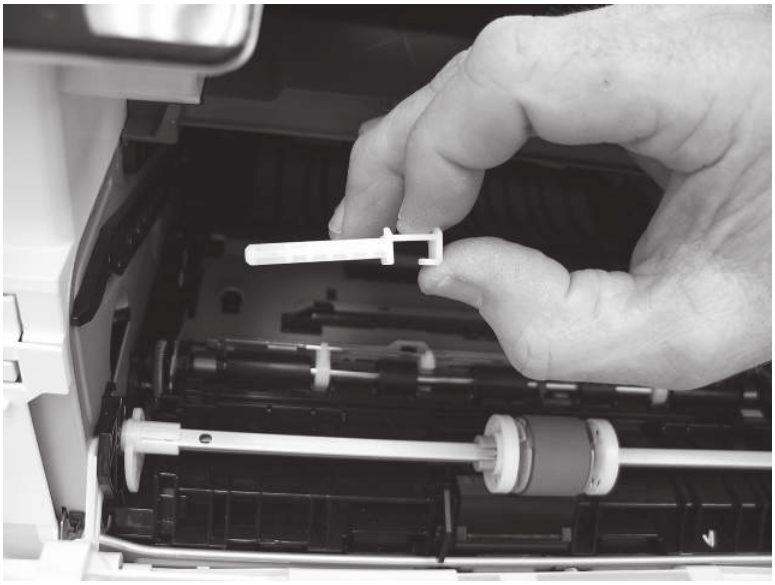
TIP: It might be easier to release the support shaft by using a small flat-blade screwdriver.

Figure 1-1223 Release the support shaft



b. Remove the support shaft.

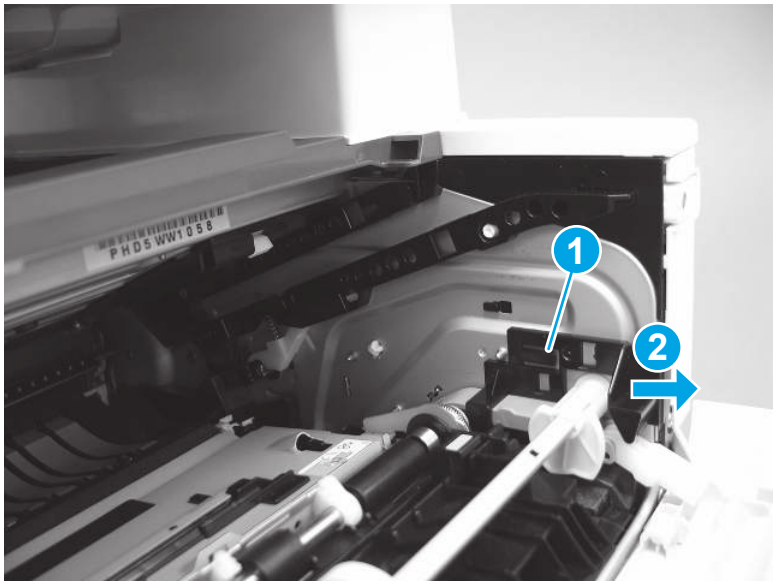
Figure 1-1224 Remove the support shaft



c. Release one tab (callout 1), and then slide the guide out of the printer (callout 2).

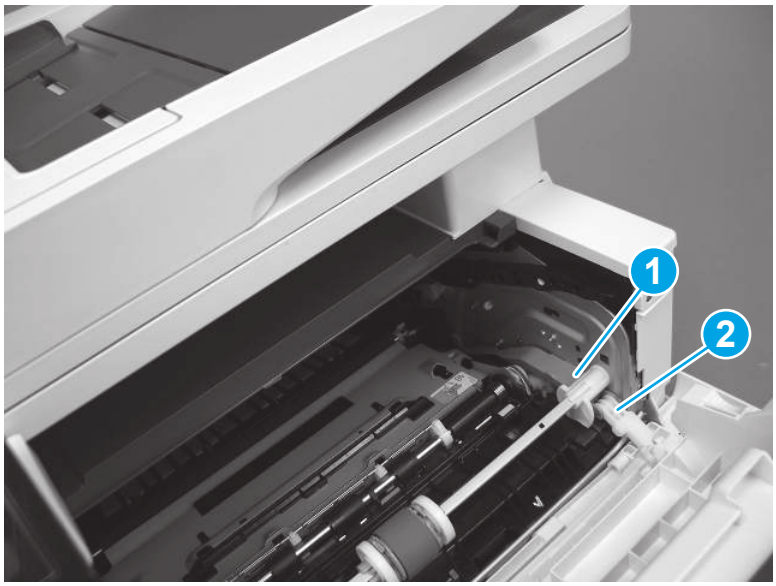
⚠ CAUTION: Be careful, the tab (callout 1) can be easily broken.

Figure 1-1225 Remove the guide



d. Use a small flat-blade screwdriver to gently pry the white-plastic door arm (callout 1) off of the gray-plastic pressure-release link (callout 2) to release the door arm.

Figure 1-1226 Release the pressure-release link



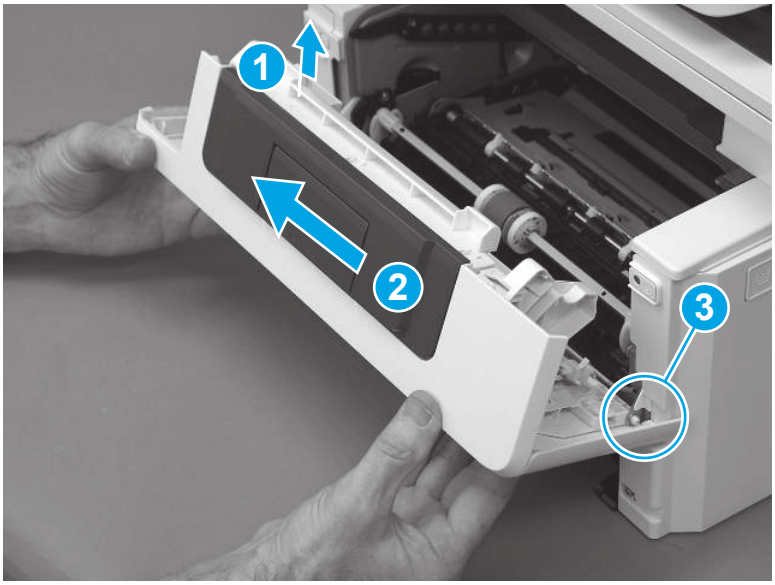
e. With the door in the partially closed position, slightly raise the left end (callout 1; raise it over the sheet-metal hinge boss), and then slide the door to the left (callout 2) to release the right hinge (callout 3).

⚠ CAUTION: The door is still attached to the printer by the left-side retainer arm. Do not attempt to completely remove the door.

Reinstallation tip: When reinstalling the door, there are two right-side hinge pins (not shown in callout 3).

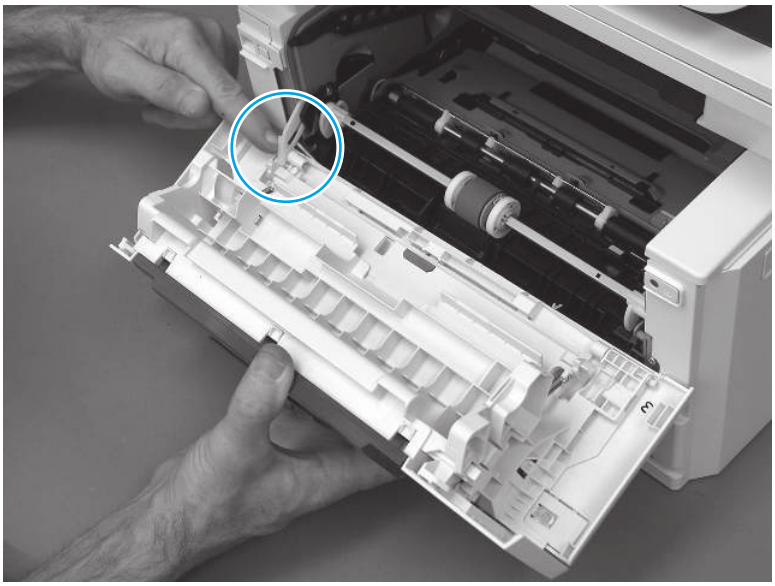
Keep a finger pressed on the left-side retainer arm so that it does not disengage from the door.

Figure 1-1227 Release the door



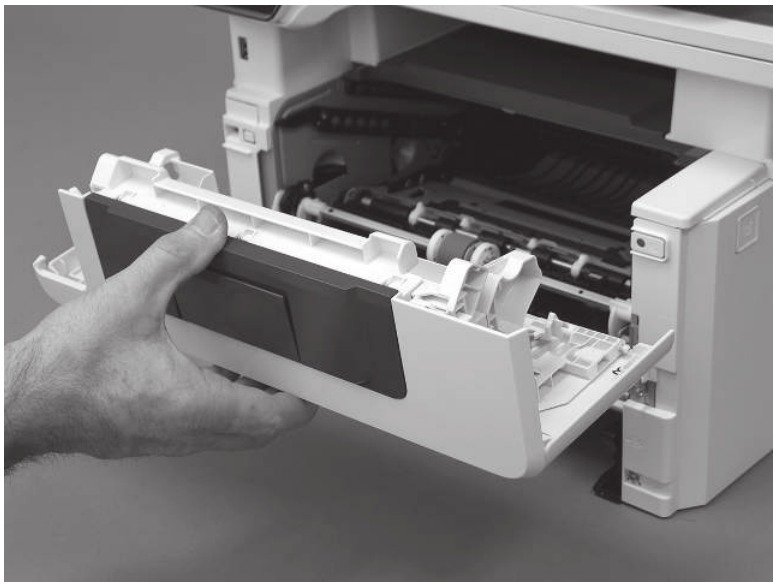
f. Rotate the door away from the printer until the keyed pin on the left-side retainer arm can disengage from the door.

Figure 1-1228 Release the left-side retainer arm



g. Remove the door.

Figure 1-1229 Remove the door



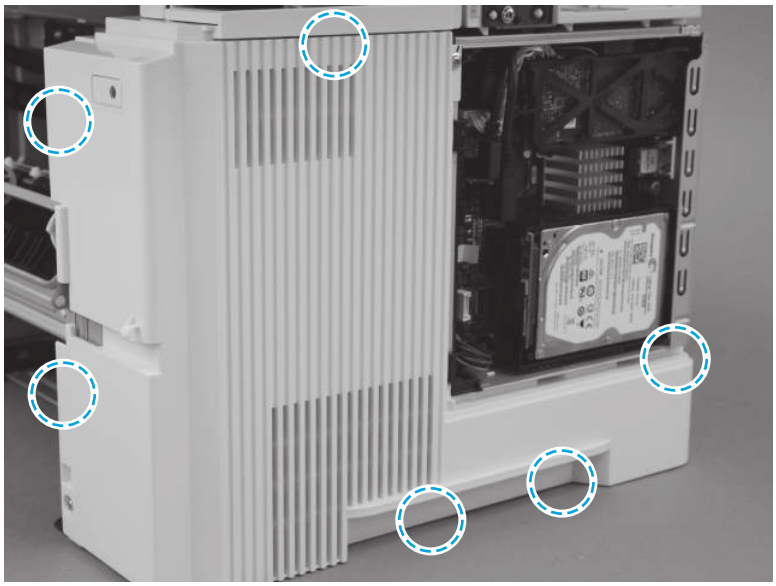
13. Remove the right cover.

IMPORTANT: The black-plastic cassette front and rear guides (located inside the tray cavity) can be easily dislodged. Do not lose the guides when the cover is removed or installed.

An MFP printer is shown in this section. However, the procedure is correct for all printer models.

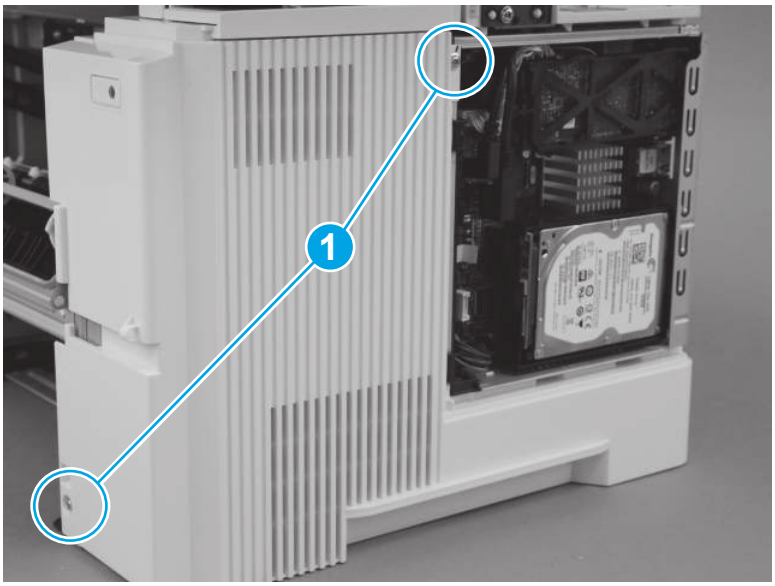
a. Before proceeding, take note of the location of the tabs and bosses on the inside of the cover.

Figure 1-1230 Locate the tabs and bosses



b. Remove two screws (callout 1).

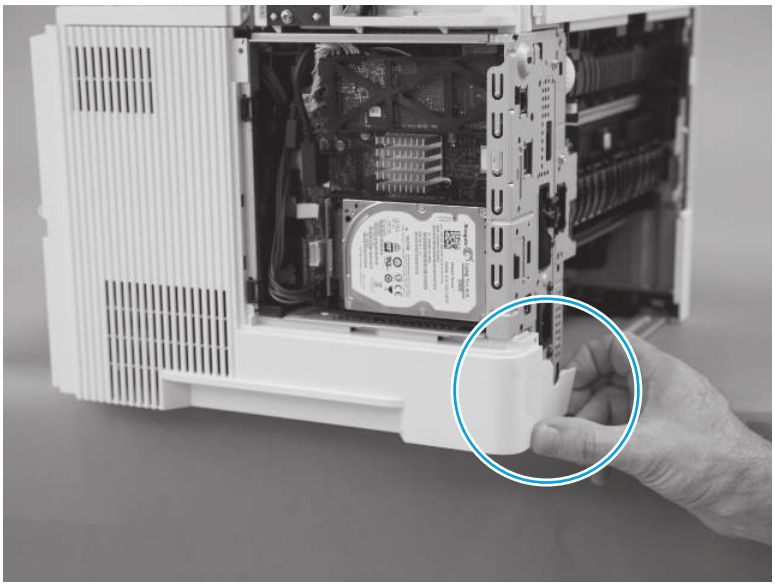
Figure 1-1231 Remove two screws



c. At the rear of the printer, release one boss.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

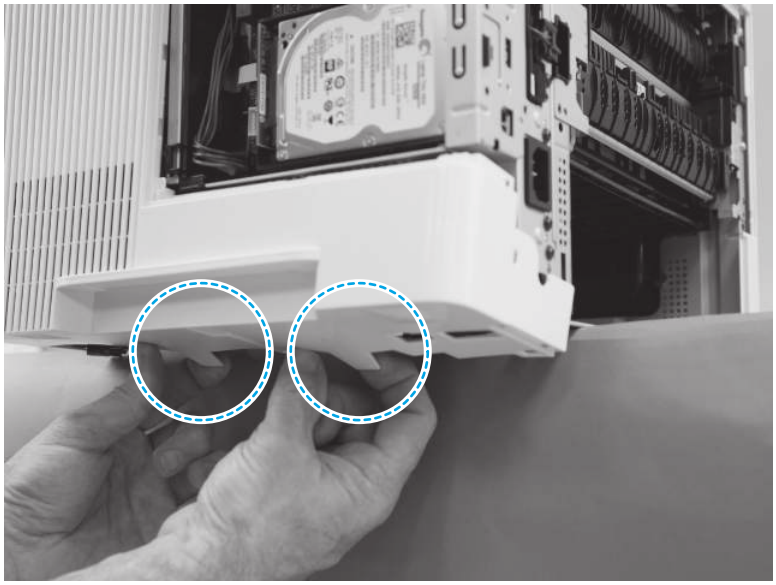
Figure 1-1232 Release one boss



d. At the bottom edge of the cover, release two bosses.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

Figure 1-1233 Release two bosses

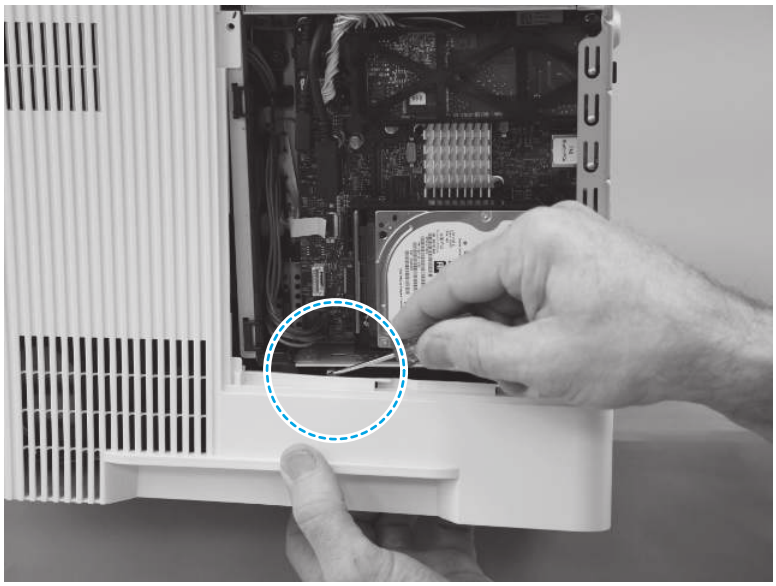


e. Near the formatter, release one tab.

CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

TIP: Hold the bottom of the cover away from the printer, and then use a small flat-blade screw driver to easily release this tab.

Figure 1-1234 Release one tab

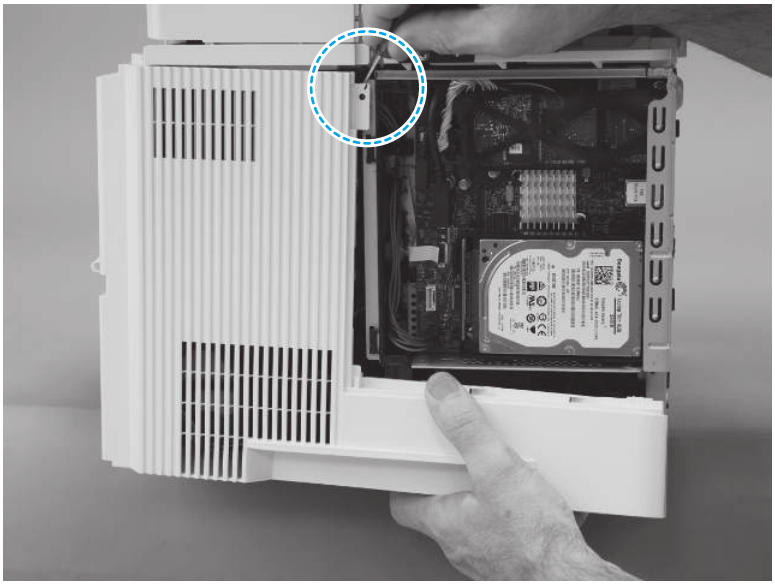


f. At the top rear edge of the cover, release one tab.

CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

TIP: Use a small flat-blade screw driver to easily release this tab.

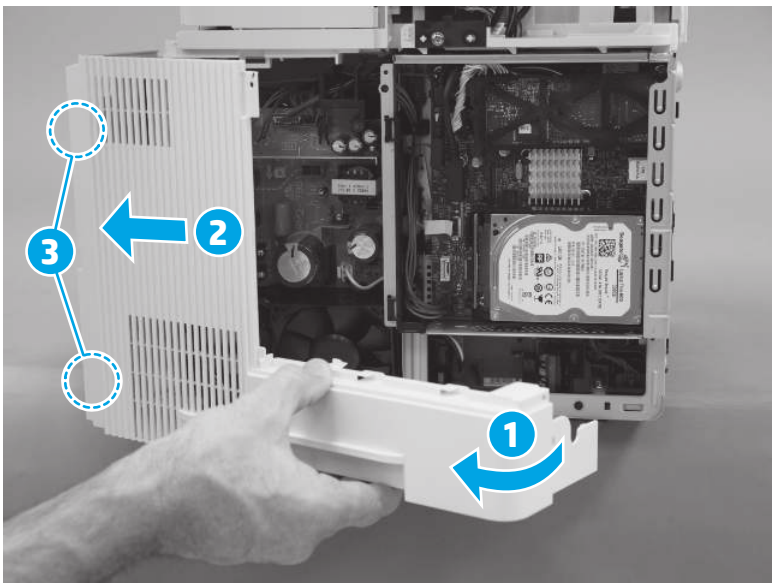
Figure 1-1235 Release one tab



g. Rotate the rear of the cover away from the printer (callout 1), slide the cover toward the front of the printer (callout 2) to release two bosses (callout 3), and then remove the cover.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

Figure 1-1236 Remove the cover



14. Remove the left cover.

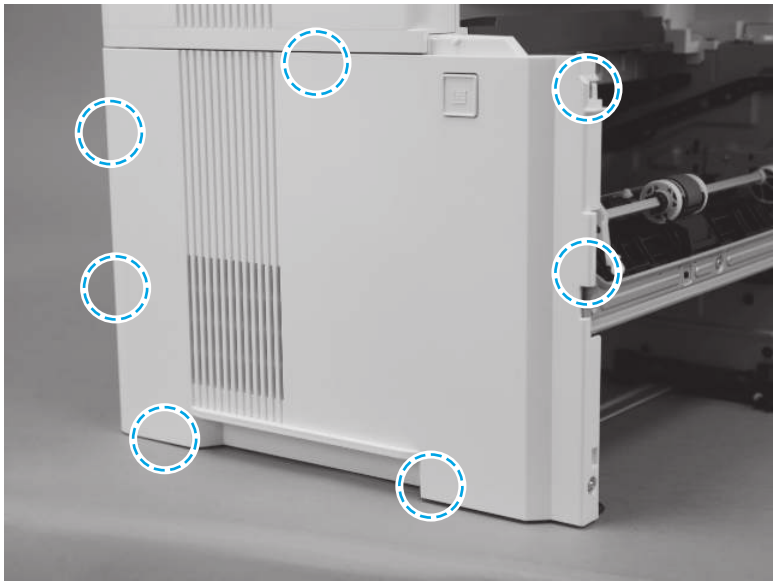
IMPORTANT: The black-plastic cassette front and rear guides (located inside the tray cavity) can be easily dislodged. Do not lose the guides when the cover is removed or installed.

NOTE: An MFP printer is shown in this section. However, the procedure is correct for all printer models.

a. Before proceeding, take note of the location of the tabs and bosses on the inside of the cover.

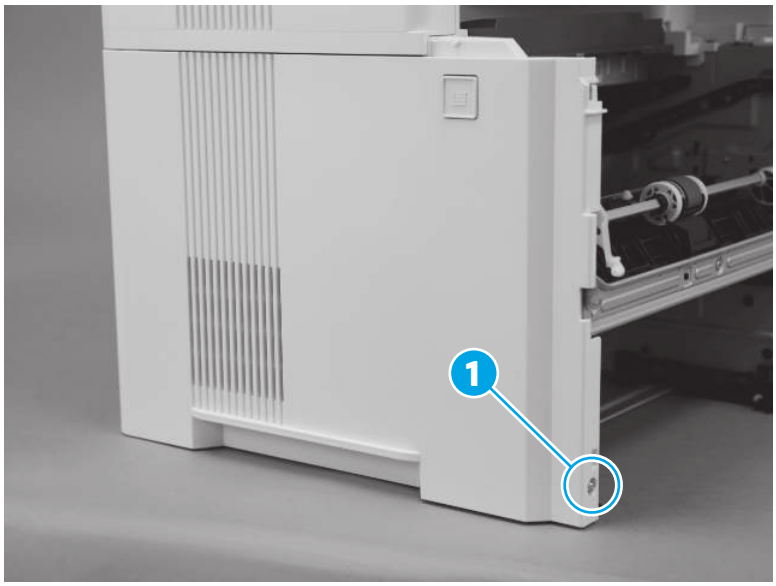
Reinstallation tip: When reinstalling the cover, take note of the location of the tabs and bosses on the inside of the cover.

Figure 1-1237 Locate of the tabs and bosses



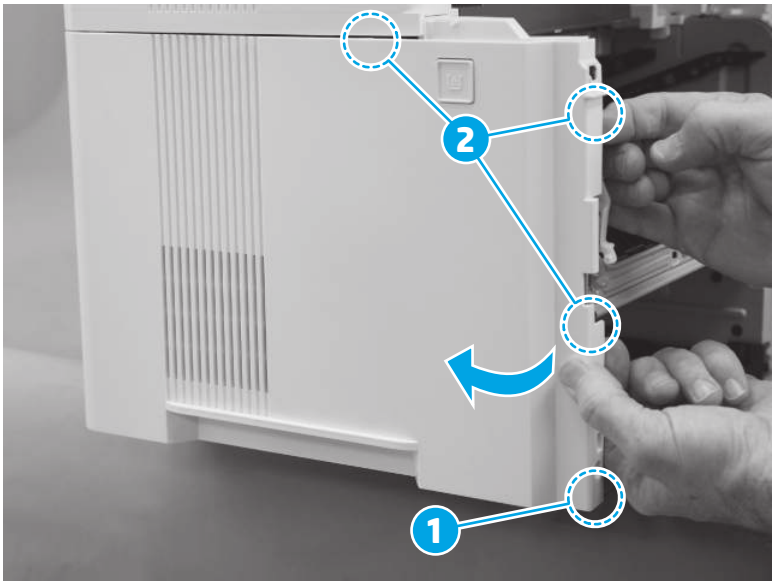
b. Remove one screw (callout 1).

Figure 1-1238 Remove one screw



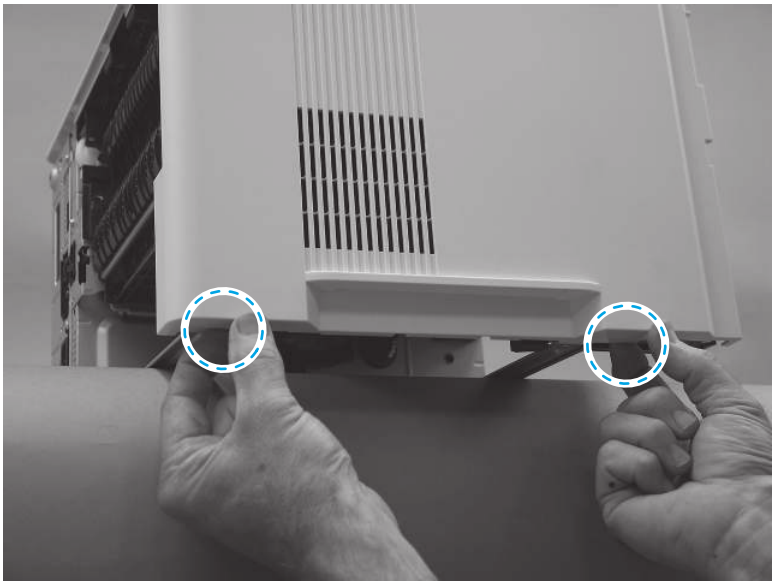
c. At the front of the printer, release one boss (callout 1), and then rotate the front edge of the cover away from the printer to release three tabs (callout 2).

Figure 1-1239 Release one boss and three tabs



d. At the bottom edge of the cover, release two tabs.

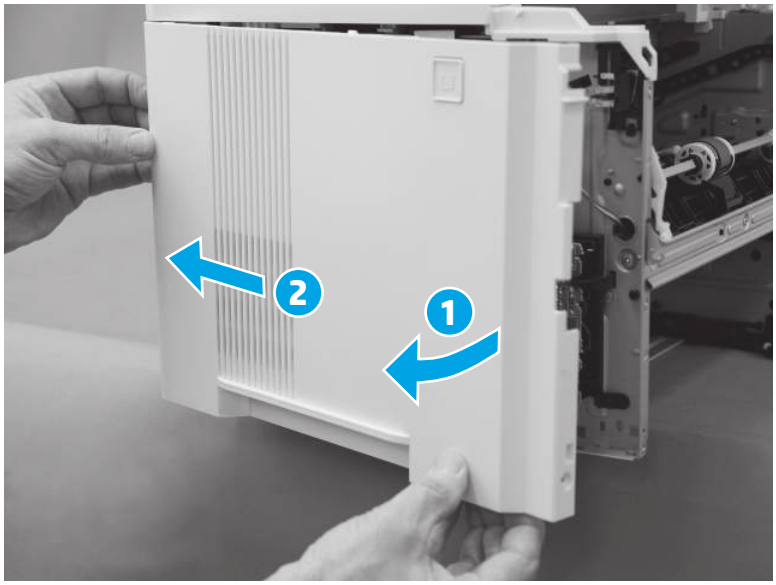
Figure 1-1240 Release two tabs



e. Continue to rotate the front edge of the cover away from the printer (callout 1), and then slide the cover toward the rear of the printer (callout 2) to remove it.

NOTE: If the cover is difficult to rotate or slide as shown below, make sure that the bottom tabs (released in the previous step) are completely disengaged from the chassis.

Figure 1-1241 Remove the cover



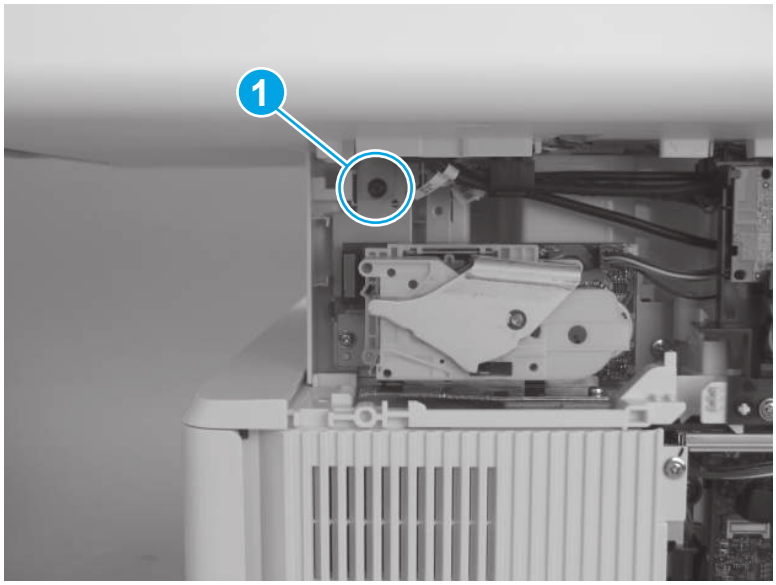
15. Remove the integrated-scanner assembly (ISA) (M527/E52545/M528/E52645).

NOTE: The ISA includes the document feeder, sub-scanner assembly (SSA), and the scanner control board (SCB).

a. Remove one screw (callout 1).

IMPORTANT: This screw fastens the ISA ground plate to the printer chassis. Do not lose this screw.

Figure 1-1242 Remove one screw

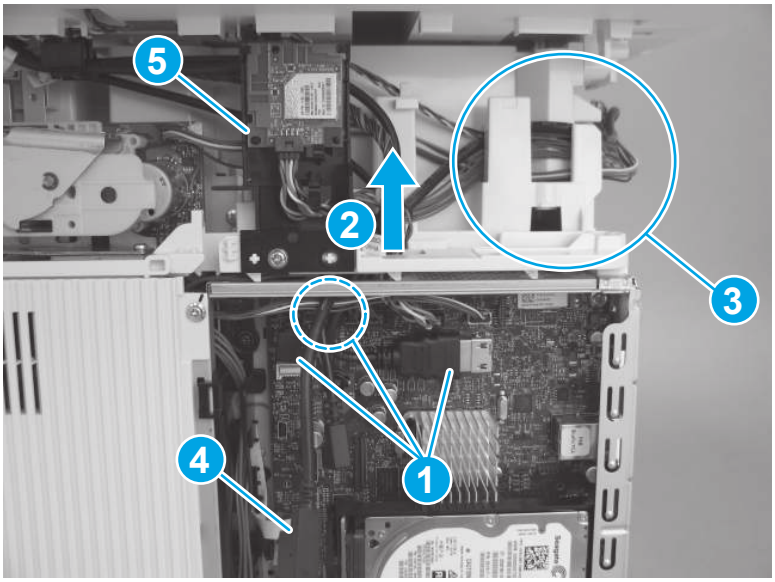


b. Disconnect three connectors (callout 1), pass the wire harnesses and cables through the opening in the cover (callout 2), and then release them from the retainers (callout 3).

NOTE: One cable (callout 4) does not need to pass through the opening in the cover.

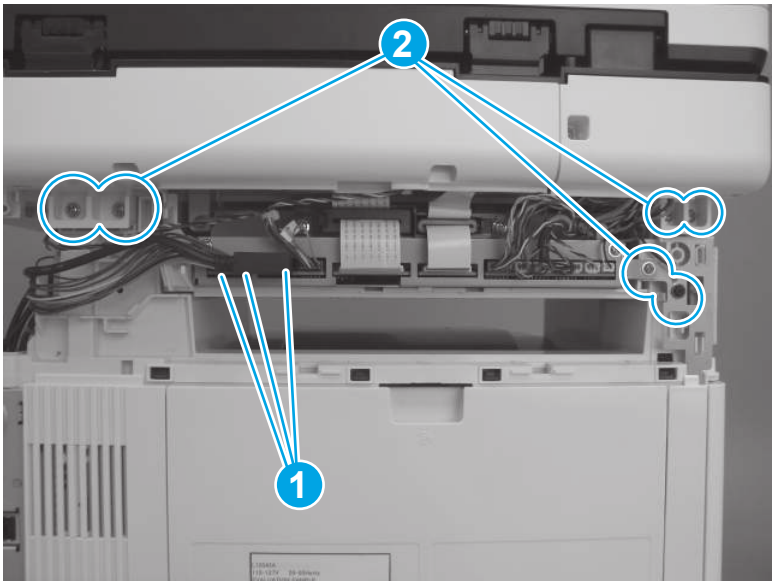
TIP: It might be easier if the WiFi PCA and holder (not all models; callout 5) is detached from the printer, and then moved out of the way.

Figure 1-1243 Disconnect cables and connectors



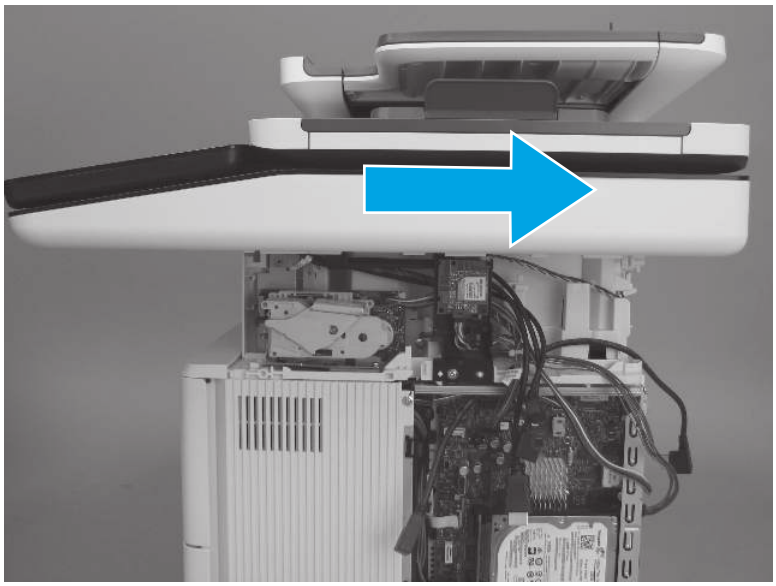
c. Disconnect three connectors (callout 1), and then remove six screws (callout 2).

Figure 1-1244 Disconnect connectors and remove screws



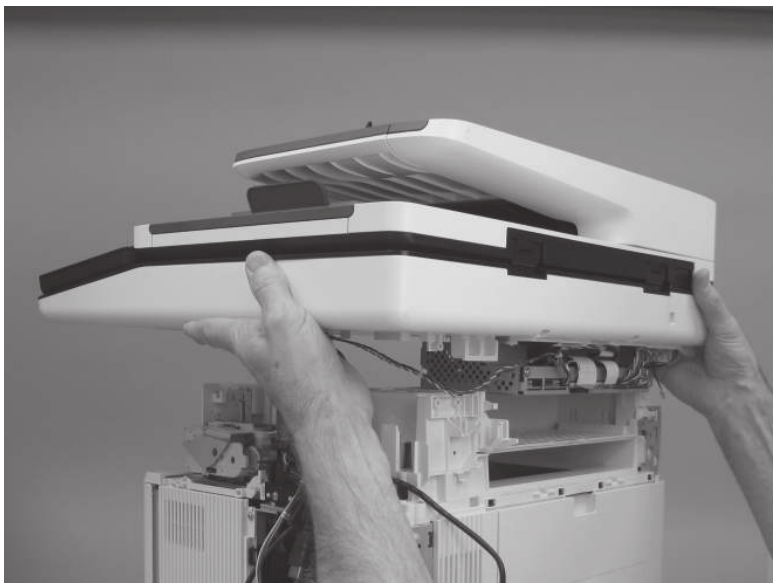
d. Slightly slide the ISA towards the back of the printer to release it.

Figure 1-1245 Slide the ISA towards the back of the printer



e. Remove the ISA.

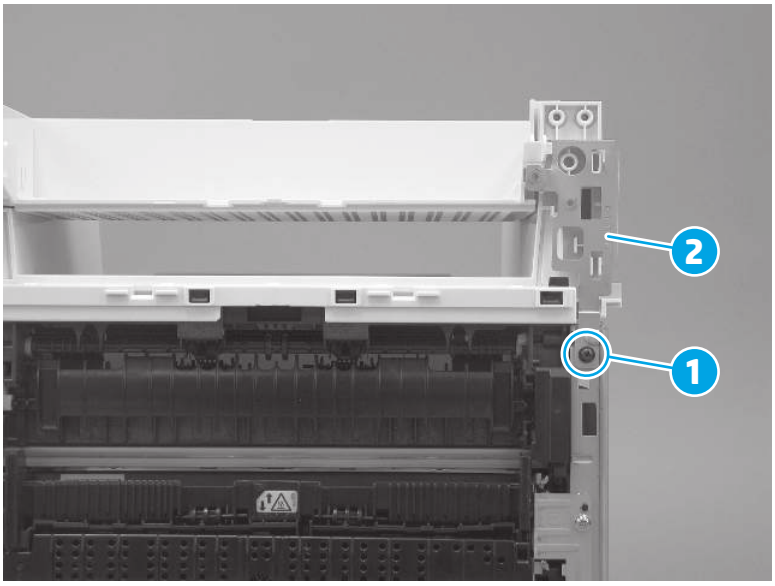
Figure 1-1246 Remove the ISA



16. Remove the top cover (M527/E52545/M528/E52645).

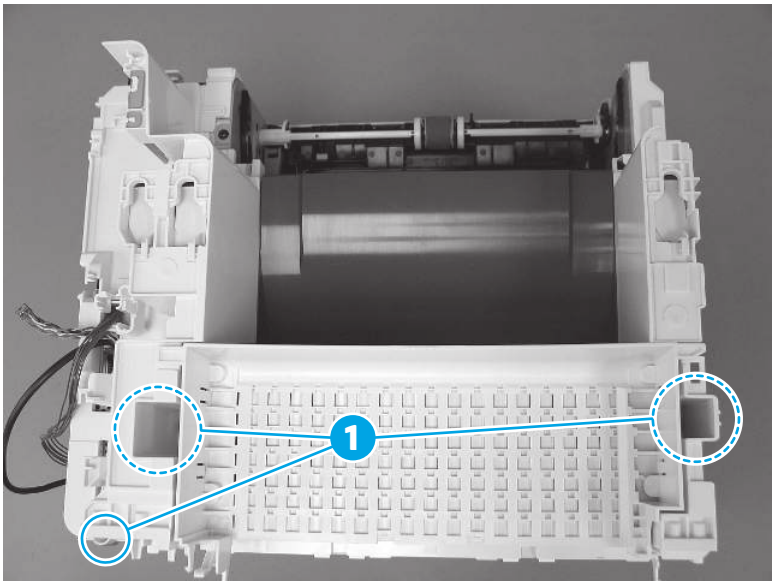
a. At the front right of the printer, remove one screw (callout 1), and then remove the sheet-metal plate (callout 2).

Figure 1-1247 Remove one screw and the plate



b. At the top rear of the printer, remove three screws (callout 1).

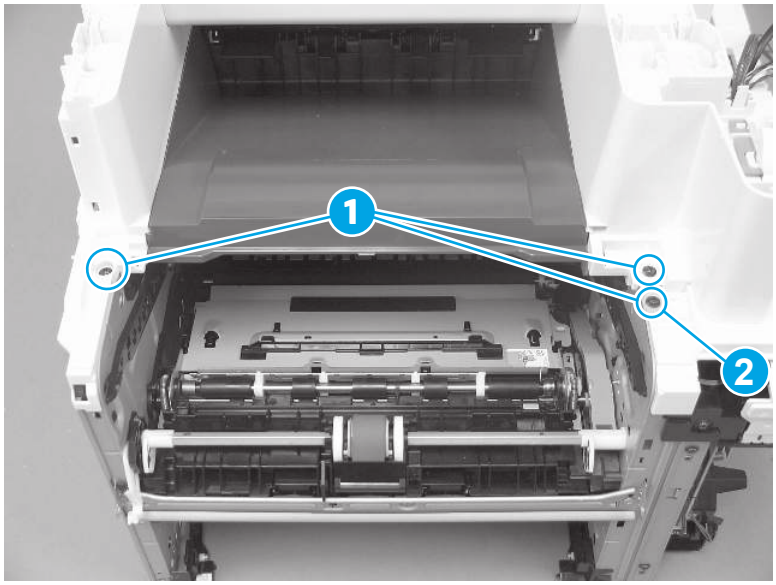
Figure 1-1248 Remove three screws



c. At the top front of the printer, remove three screws (callout 1).

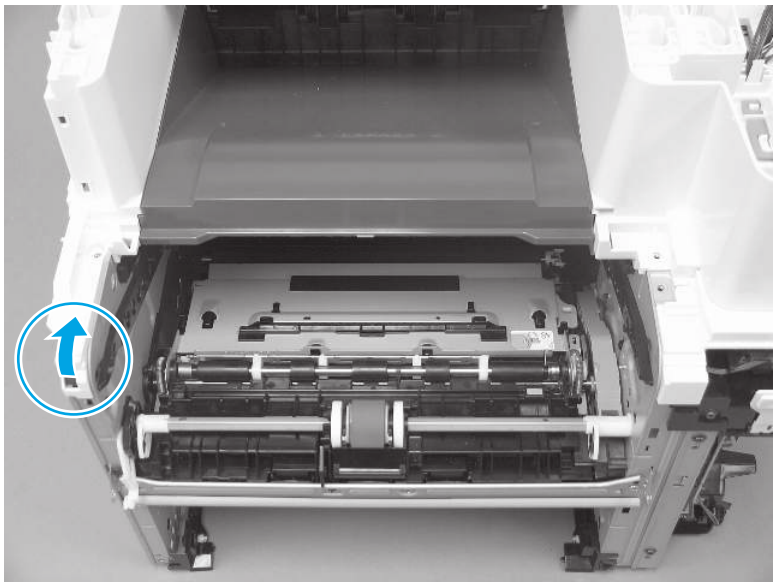
NOTE: The screw (callout 2) on the lower-right portion of the cover is a different color than the other two screws, and is surrounded by sheet-metal. It might appear that this screw does not need to be removed. Remove this screw.

Figure 1-1249 Remove three screws



d. At the front left of the printer, release one boss.

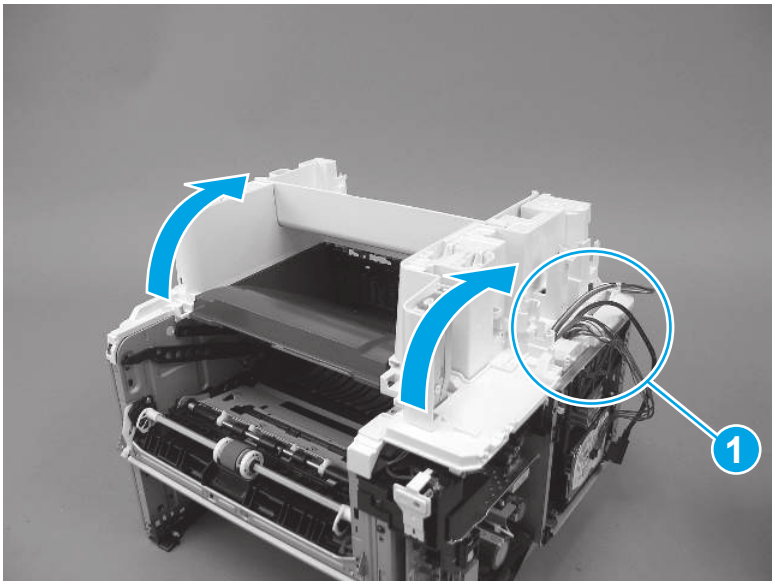
Figure 1-1250 Release one boss



e. Rotate the front of the cover up and away from the printer.

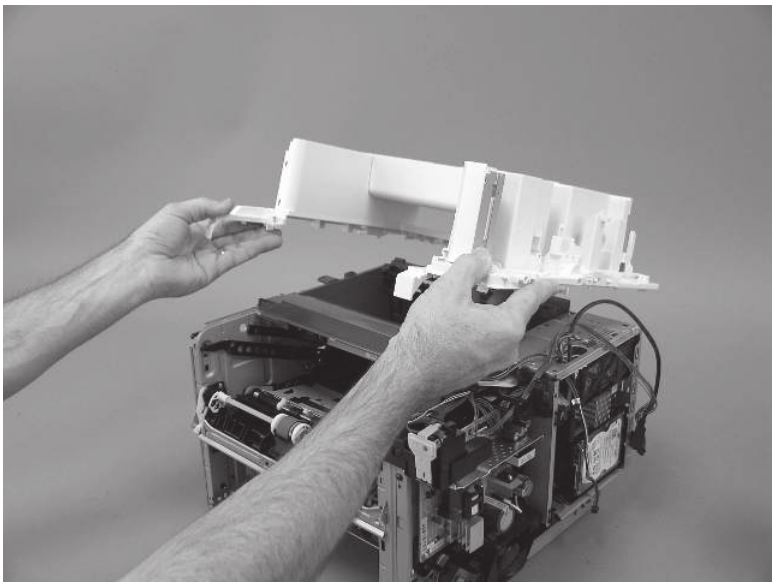
⚠ CAUTION: As the cover is rotated up, carefully pass the cables and wire harnesses the hole in the cover (callout 1).

Figure 1-1251 Rotate the front of the cover up



f. Remove the cover.

Figure 1-1252 Remove the cover

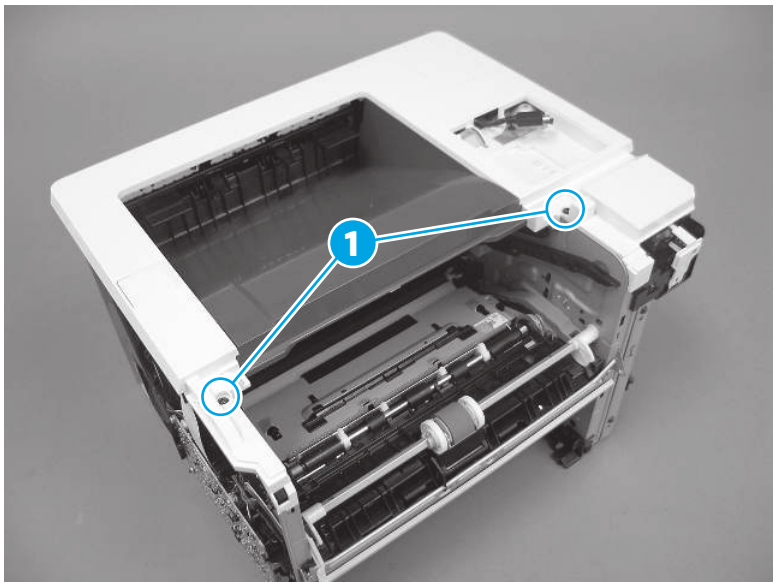


17. Remove the top cover (M501/M506/E50045/M507/E50145).

    The M506x/E50045x is shown in this procedure. However, the steps are correct for all M506/E50045/M507/E50145 models and the M501 printer.

a. Remove two screws (callout 1).

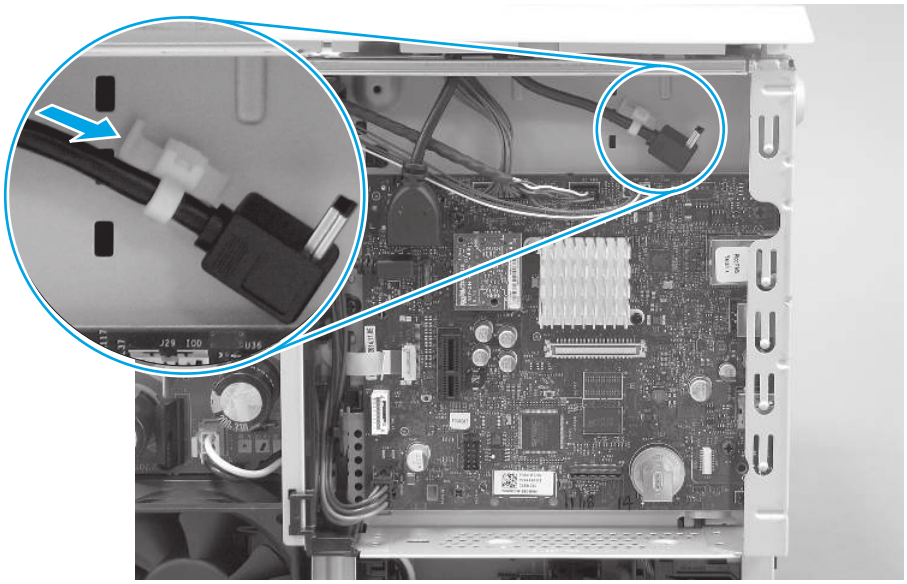
Figure 1-1253 Remove two screws



b. **M506/E50045/ only**: Release one cable retainer from the chassis.

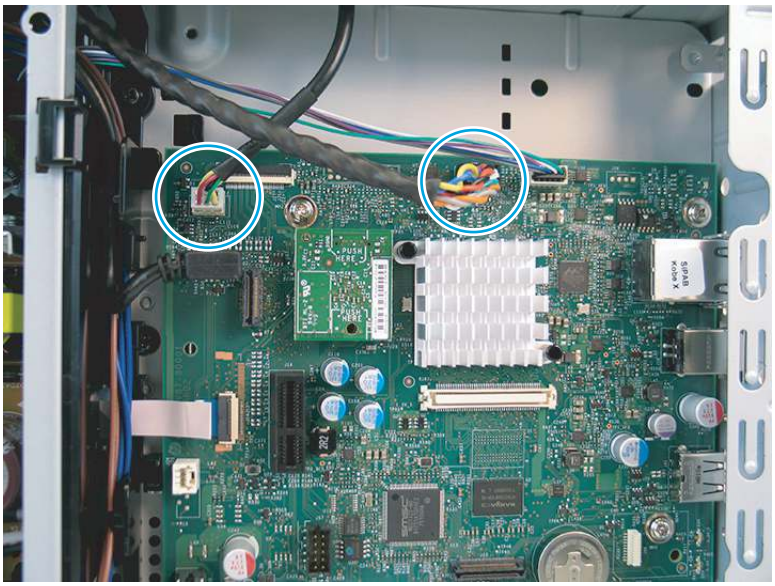
TIP: Depress the tab on the retainer to release it.

Figure 1-1254 Release one cable retainer



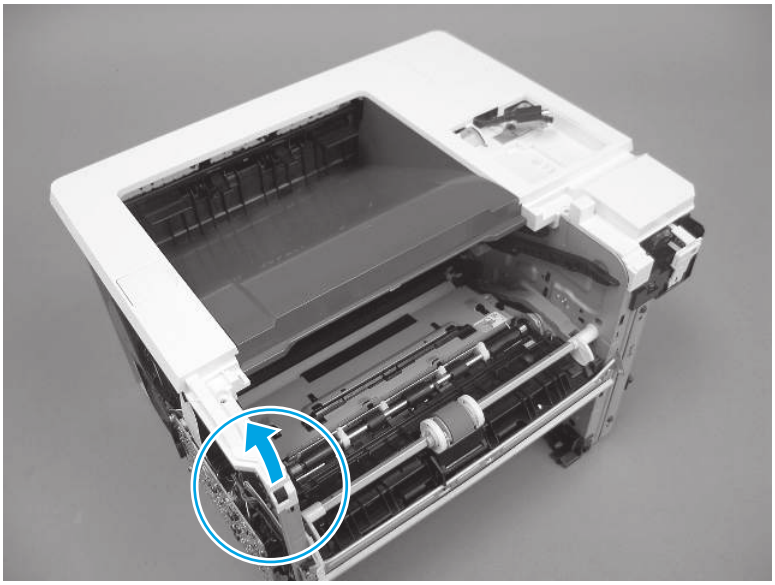
c. **M507/E50145 only**: Disconnect two connectors.

Figure 1-1255 Disconnect two connectors



d. Release one boss.

Figure 1-1256 Release one boss

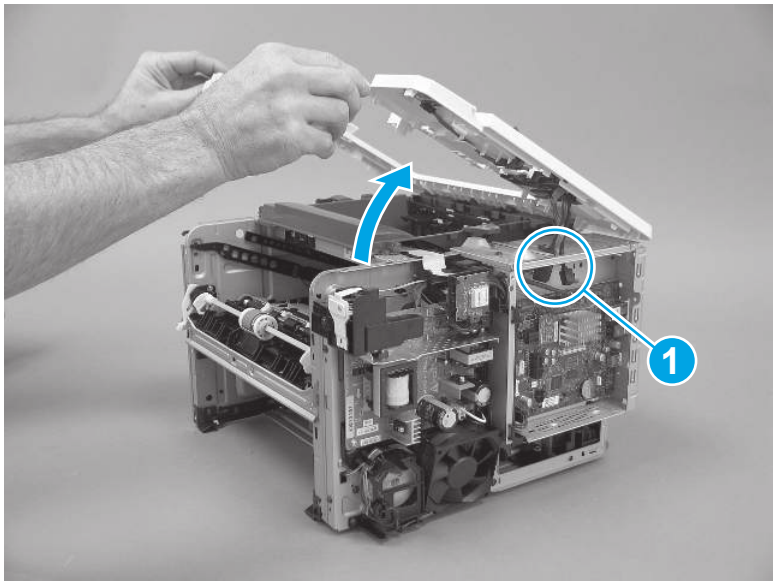


e. **M506/E50045/ only**: Rotate the front of the cover up and away from the printer, and then remove the cover.

⚠ CAUTION: **M506x/E50045x only**: As the cover is rotated up, carefully pass the cables the hole in the chassis (callout 1).

NOTE: **LCD control panel models only**: Disconnect the control panel before removing the cover.

Figure 1-1257 Remove the cover (M506/E50045)



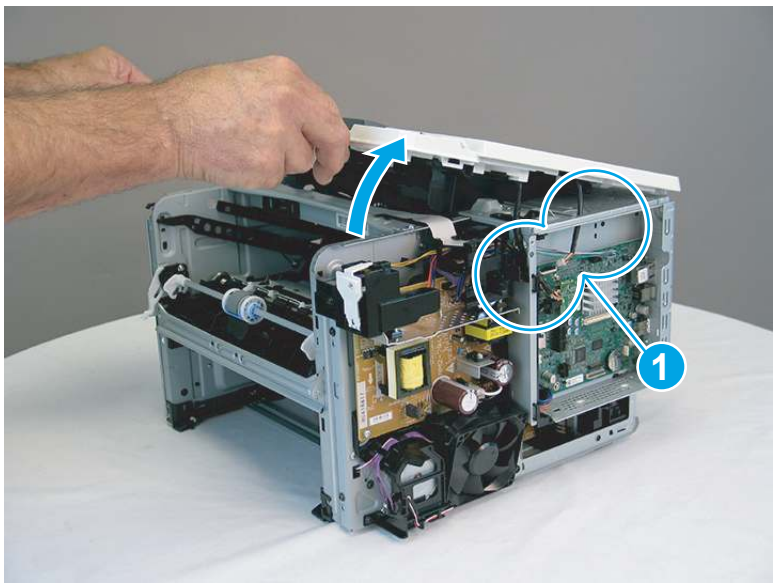
f. M507/E50145only: Rotate the front of the cover up and away from the printer, and then remove the cover.

CAUTION: M507x/E50145x only: As the cover is rotated up, carefully pass the cables the hole in the chassis (callout 1).

IMPORTANT: If the top cover is being replaced, make sure to transfer the WiFi PCA from the discarded cover to the replacement cover.

NOTE: LCD control panel models only: Disconnect the control panel before removing the cover.

Figure 1-1258 Remove the cover (M507/E50145)

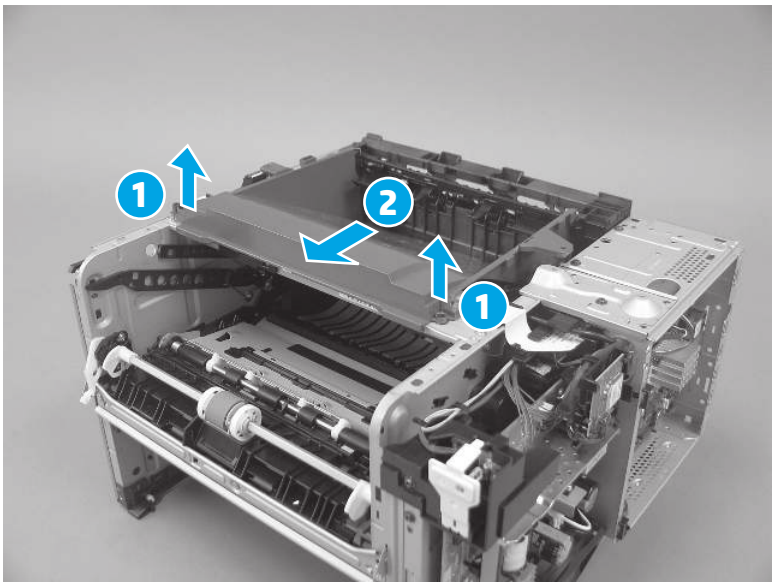


18. Remove the paper delivery tray (output bin).

NOTE: A SFP printer is shown in this section. However, the procedure is correct for all printer models.

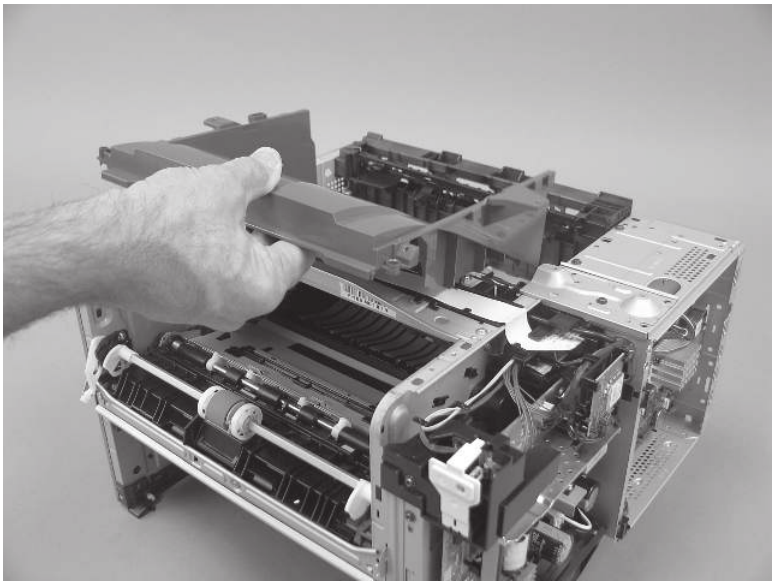
a. Release two tabs (callout 1), and then slide the cover toward the front of the printer (callout 2).

Figure 1-1259 Release two tabs



b. Remove the bin.

Figure 1-1260 Remove he bin

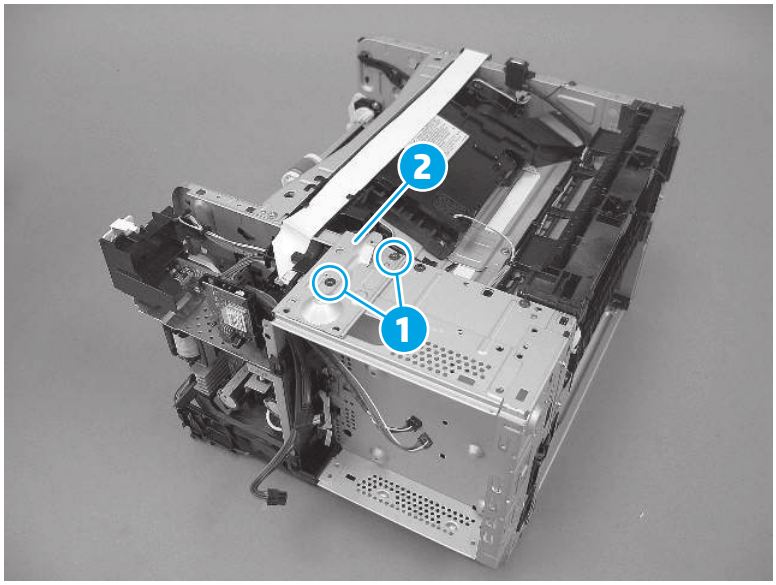


19. Remove the formatter case.

a. **M506/E50045/M507/E50145 only**: Remove two screws (callout 1), and then remove the sheet-metal plate (callout 2).

NOTE: **M507/E50145 only**: The M507/E50145 sheet-metal plate includes a separate black plastic cable guide (not shown). Do not lose the guide when removing the plate.

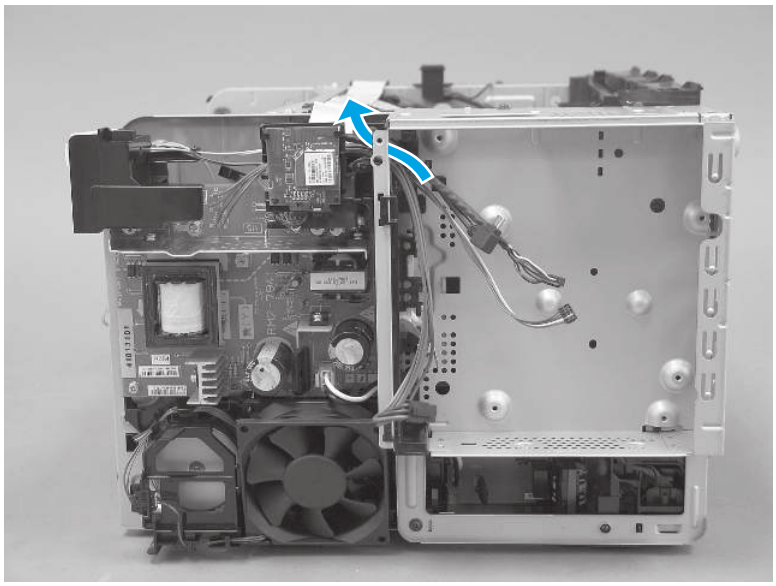
Figure 1-1261 Remove the sheet-metal plate



b. Carefully pass all cables and wire harnesses through the opening in the formatter case.

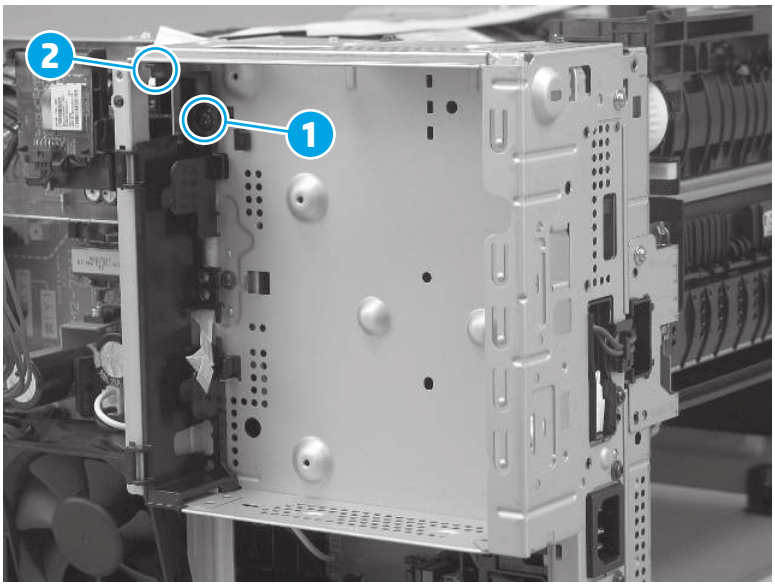
NOTE: A SFP printer is shown in this section. However, the procedure is correct for all printer models.

Figure 1-1262 Pass all cables and wire harnesses through the opening



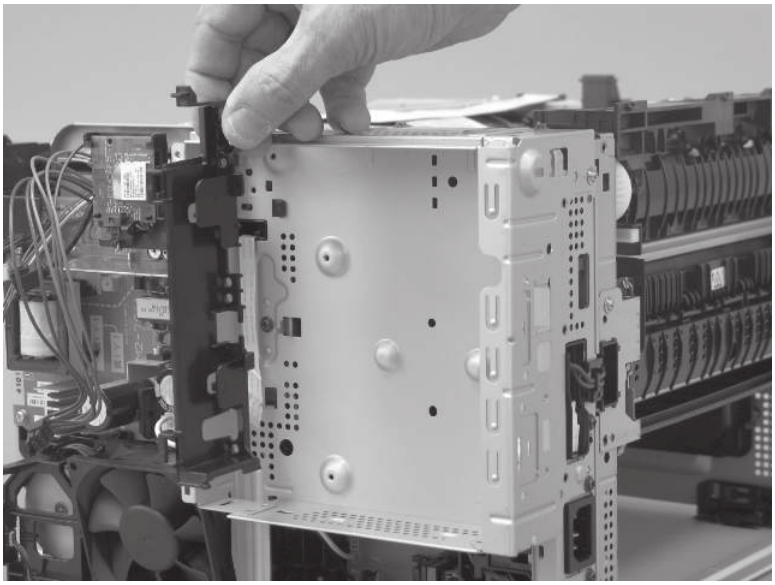
c. Remove one screw (callout 1), and then push down on one tab (callout 2) to release it.

Figure 1-1263 Remove one screw



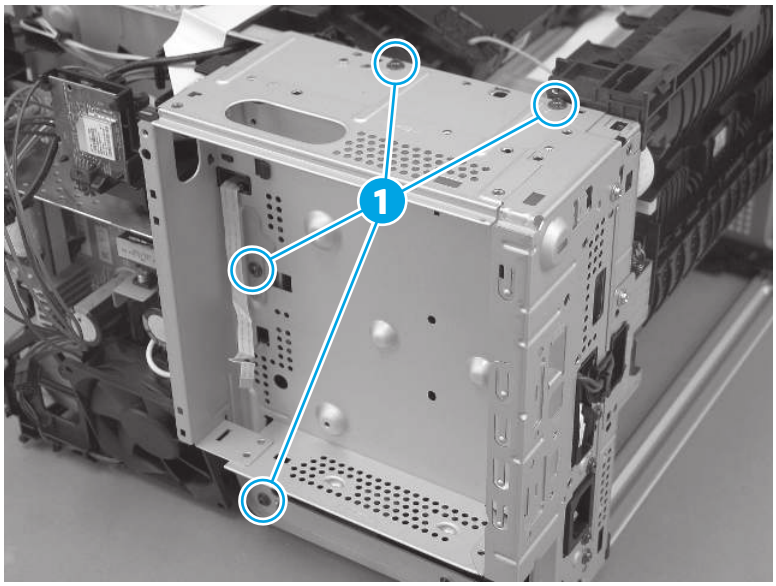
d. Remove the guide.

Figure 1-1264 Remove the guide



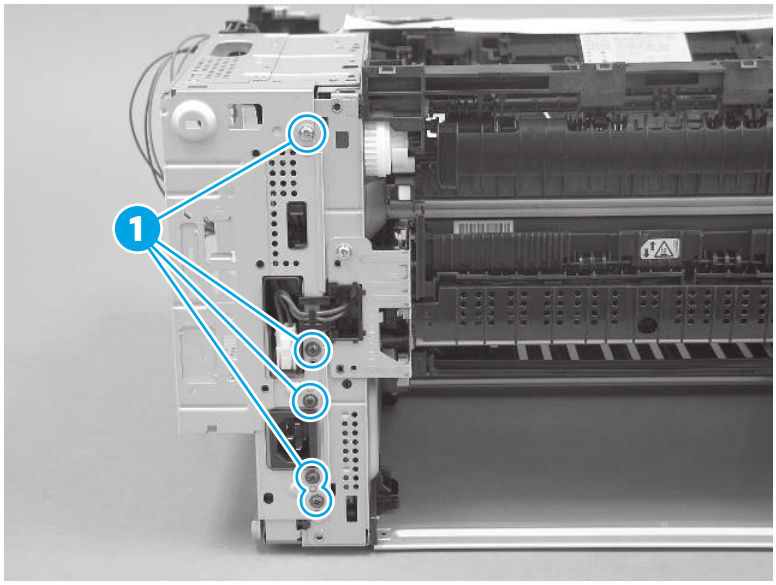
e. Remove four screws (callout 1).

Figure 1-1265 Remove four screws



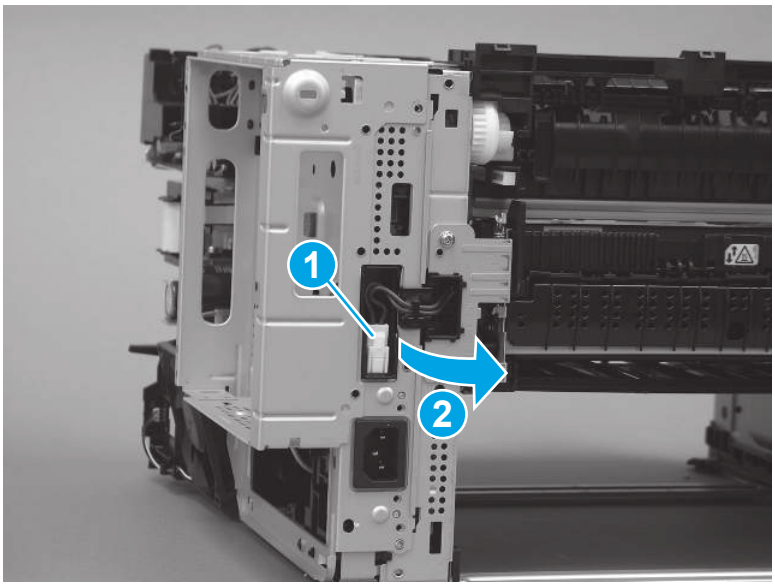
f. Remove five screws (callout 1).

Figure 1-1266 Remove five screws



g. Disconnect one connector (callout 1), and then move the guide out of the way (callout 2).

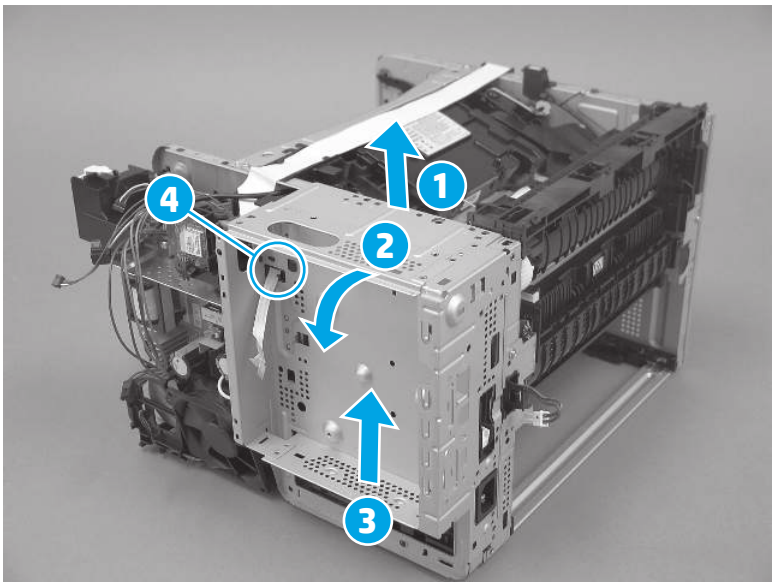
Figure 1-1267 Disconnect one connector



h. Slightly lift up the formatter case (callout 1), rotate the top of the case away from the chassis (callout 2), and then lift up the case to release it (callout 3).

CAUTION: Pass the FFC through the opening (callout 4) in the formatter while removing the case.

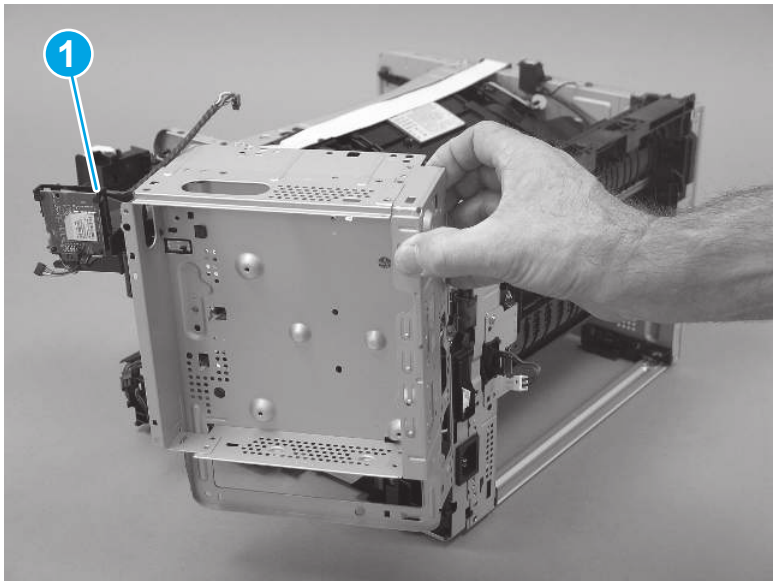
Figure 1-1268 Release the formatter case



i. Remove the formatter case.

NOTE: **WiFi models only**: If the formatter case is being replaced, make sure that the WiFi PCA and bracket (callout 1) are transferred to the replacement case.

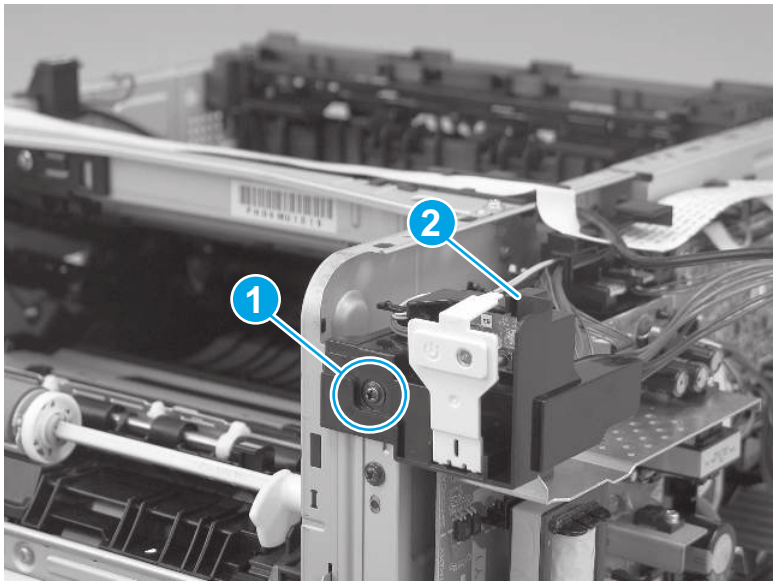
Figure 1-1269 Remove the formatter case



20. Remove the LVPS.

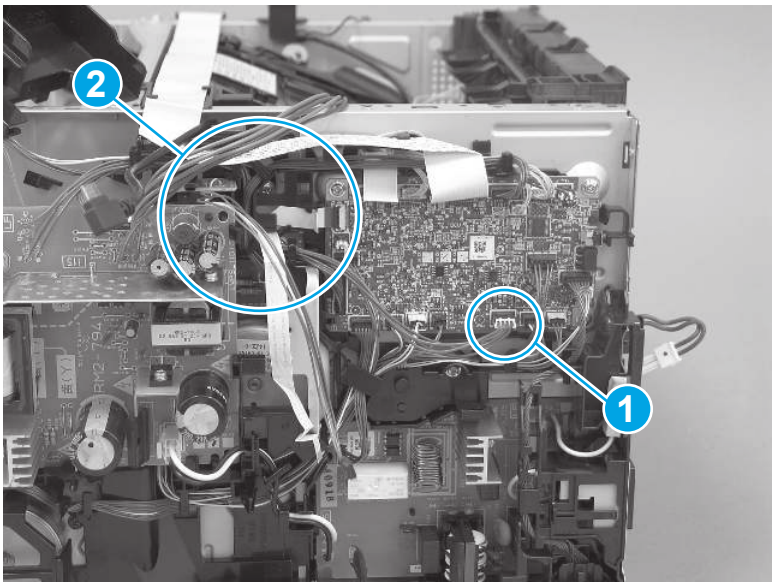
    a. Remove one screw (callout 1), and then move the power-switch assembly (callout 2) out of the way.

Figure 1-1270 Move the power-switch assembly



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

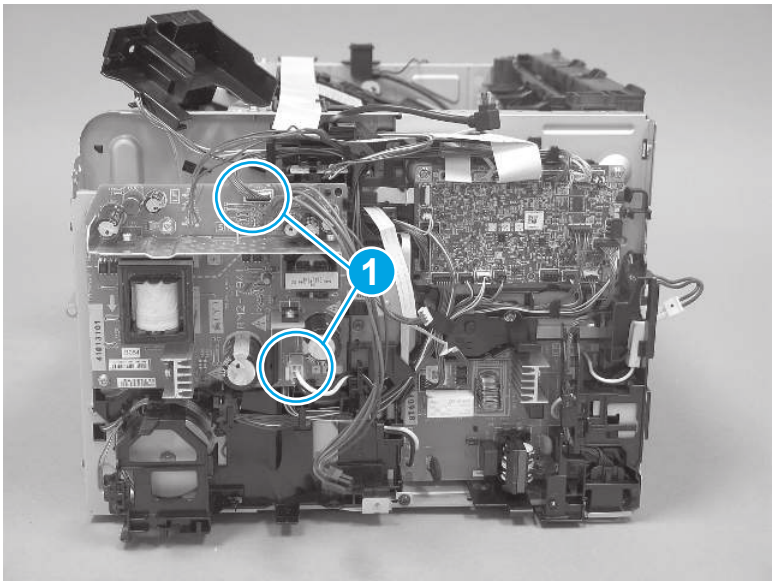
Figure 1-1271 Disconnect one connector



c. Disconnect two connectors (callout 1).

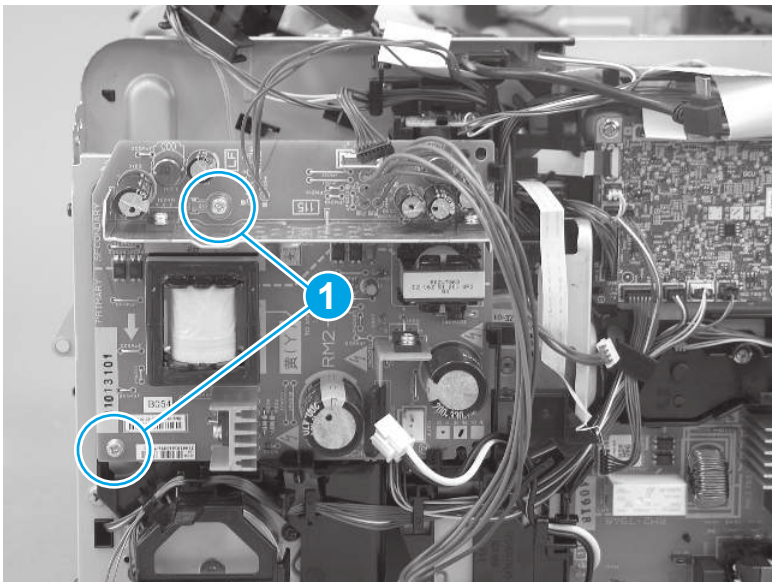
TIP: Squeeze the locking lever on the lower connector to release it.

Figure 1-1272 Disconnect two connectors



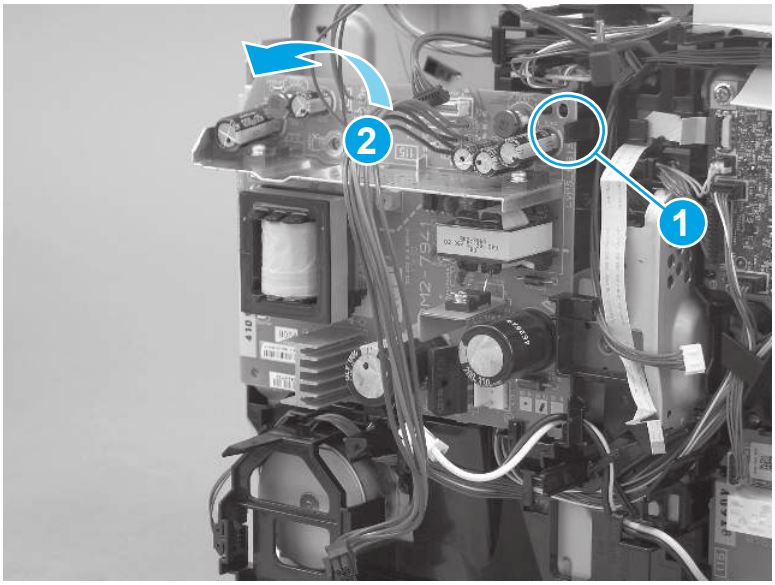
d. Remove two screws (callout 1).

Figure 1-1273 Remove two screws



e. Release one tab (callout 1), and then rotate the top of the LVPS out and away from the printer (callout 2).

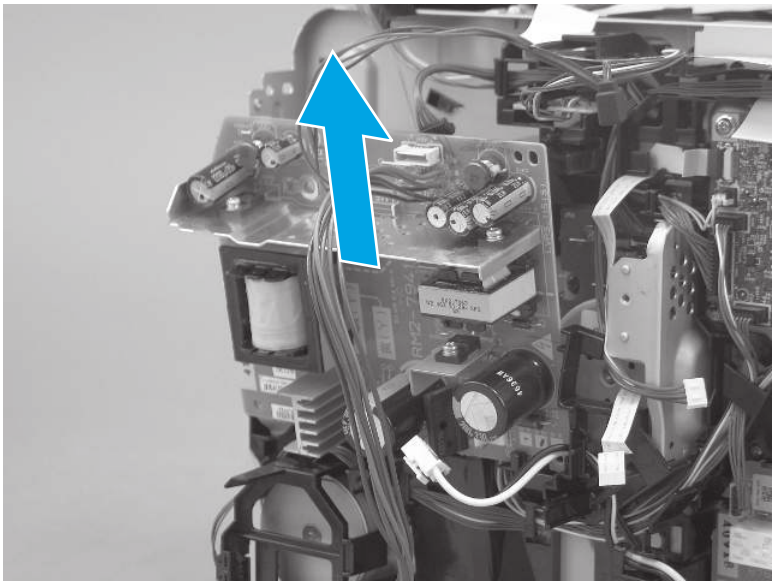
Figure 1-1274 Release one tab



f. Slide the LVPS up and away from the printer to release it.

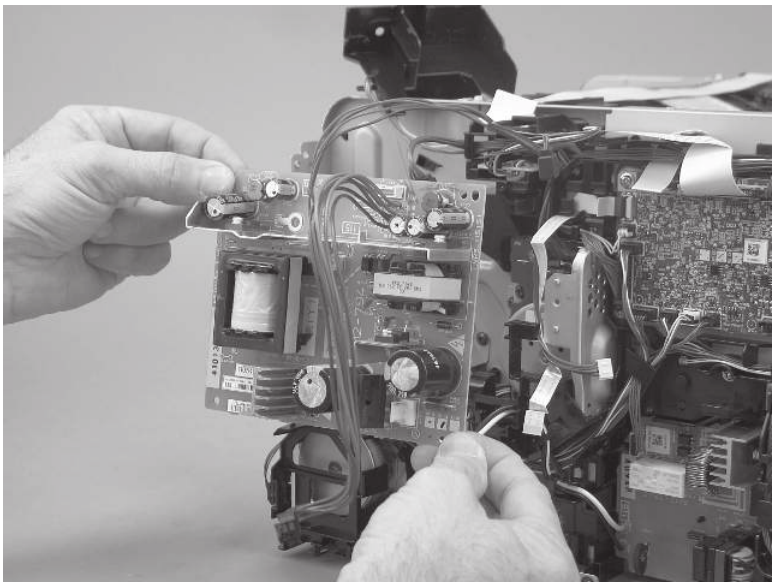
Reinstallation tip: Push down on the LVPS to make sure that it is fully seated on the holder.

Figure 1-1275 Release the LVPS



g. Remove the LVPS.

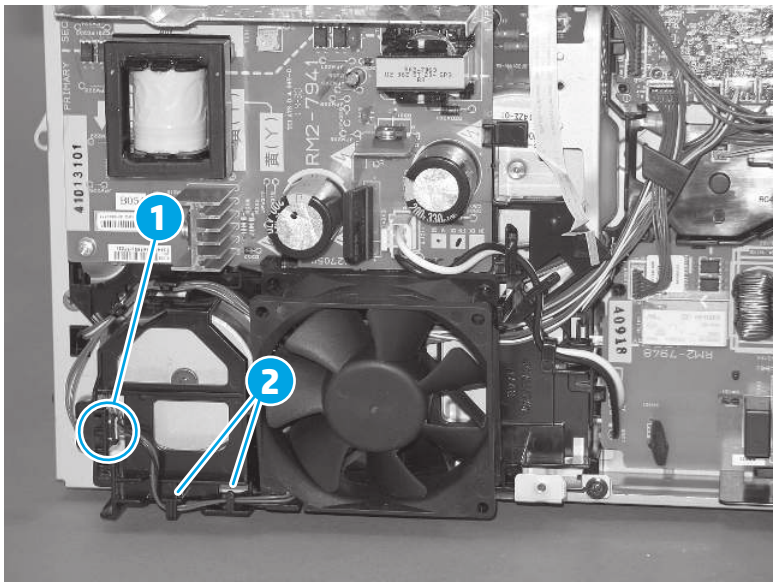
Figure 1-1276 Remove the LVPS



21. Remove the fan (FM2).

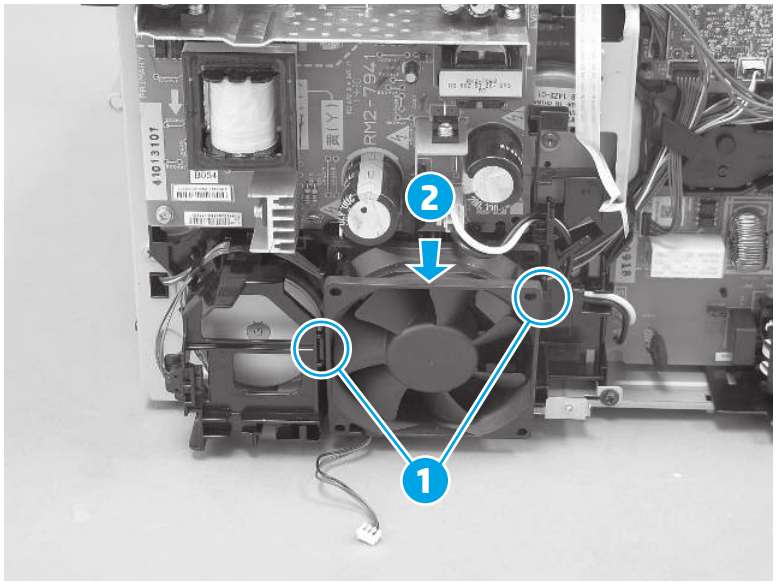
a. Disconnect one connector (callout 1), and then release the wire harness from the retainer (callout 2).

Figure 1-1277 Disconnect one connector



b. Release two tabs (callout 1), and then rotate the top of the fan out and away from the printer (callout 2).

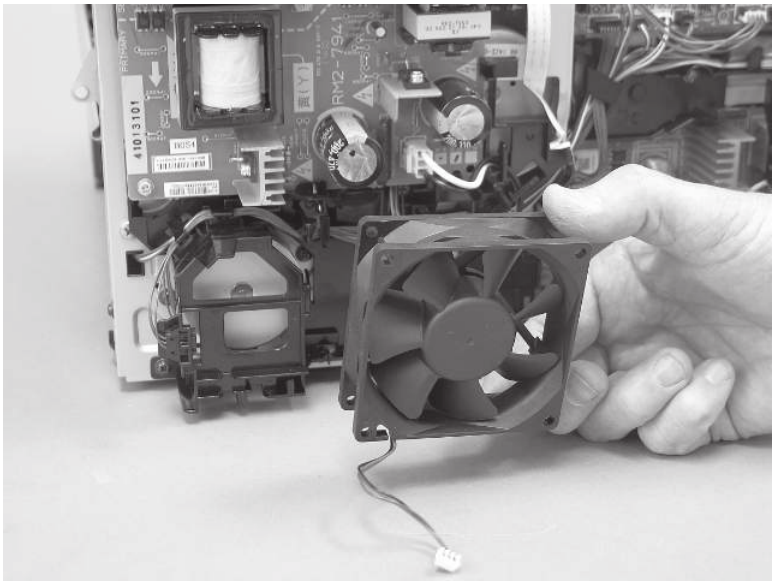
Figure 1-1278 Release two tabs



c. Remove the fan.

⚠ CAUTION: When reinstalled the fan must draw air into the printer. Make sure that the two arrows embossed on the right side of the fan body face downward and into the printer.

Figure 1-1279 Remove the fan

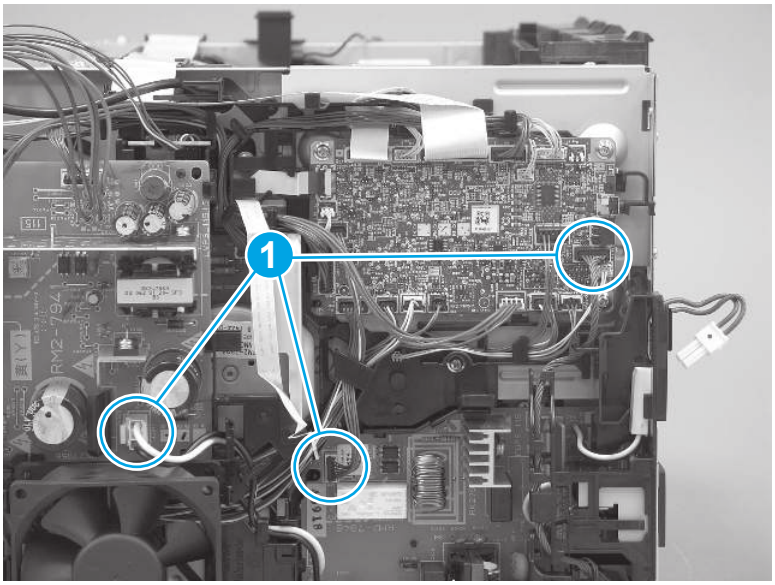


22. Remove the fuser power supply (FPS).

TIP: The FPS includes the optional paper feeder connector (Jetlink accessory tray connector) .

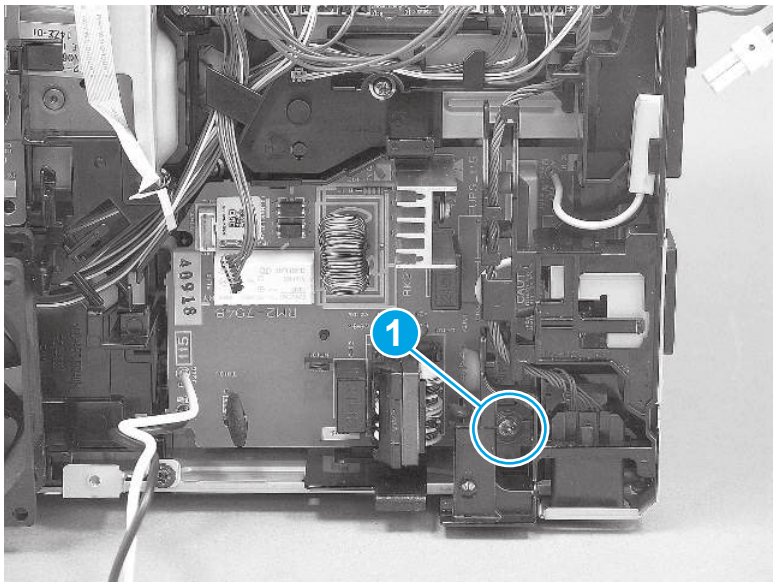
a. Disconnect three connectors (callout 1).

Figure 1-1280 Disconnect three connectors

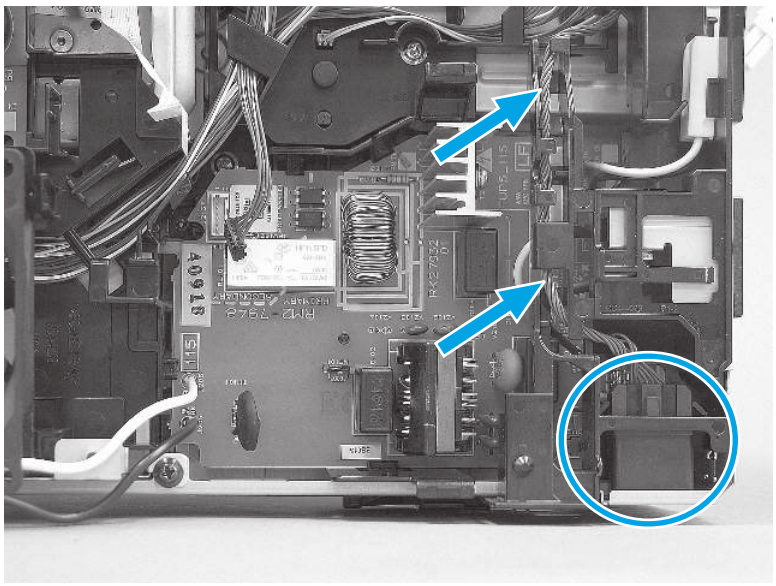


b. Remove one screw (callout 1).

Figure 1-1281 Remove one screw



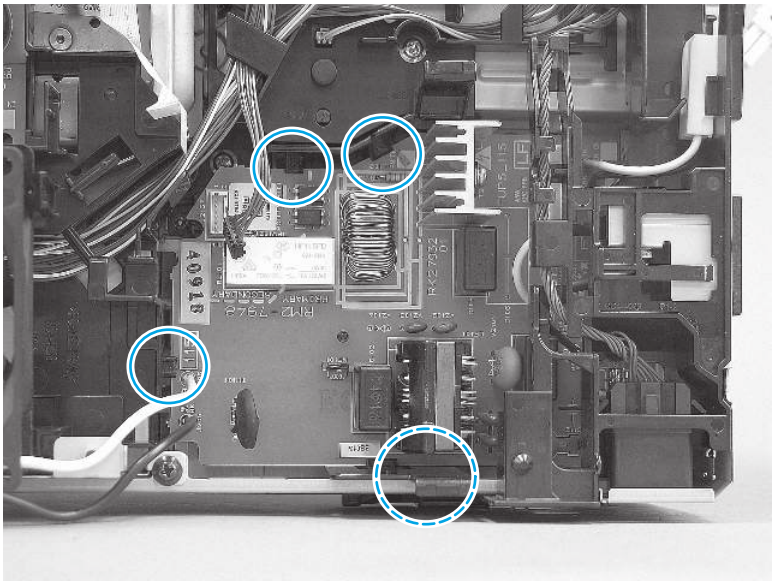
c. Disconnect the tray accessory connector (circle callout) and release the wire harness from the guide.



d. Release four tabs.

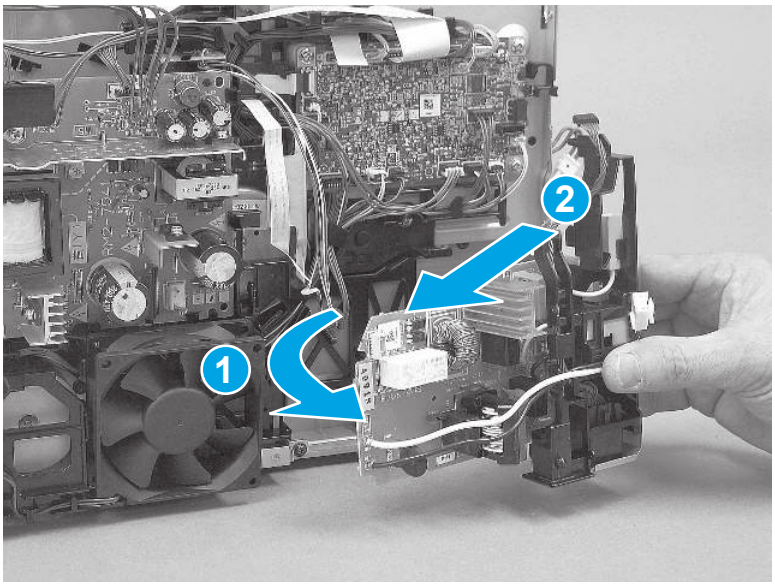
TIP: It might be easier to release the upper two tabs by using a small flat-blade screw driver.

Figure 1-1282 Release four tabs



e. Rotate the left end of the assembly out and away from the printer (callout 1), slide the assembly to the left to release the right side alignment pins (callout 2), and then remove the assembly.

Figure 1-1283 Remove the assembly

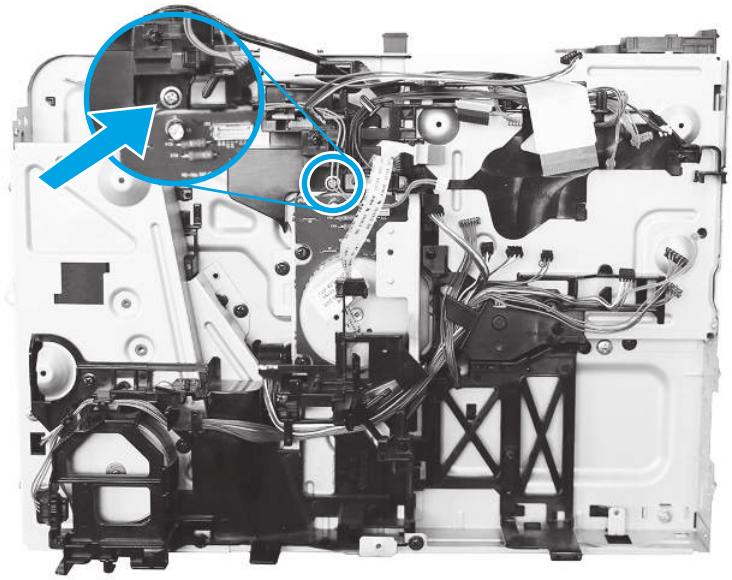


23. Remove internal cable and holder brackets.

IMPORTANT: It is recommended to bring the printer back to the shop to perform the following removal and replacement repairs.

NOTE: Lay the engine on its left side to make removal or the following parts easier.

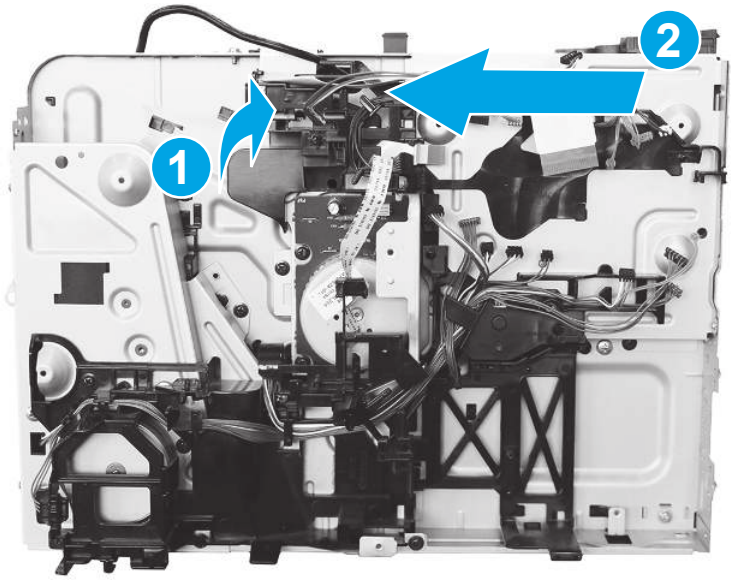
a. Remove one (1) screw from the upper cable bracket.



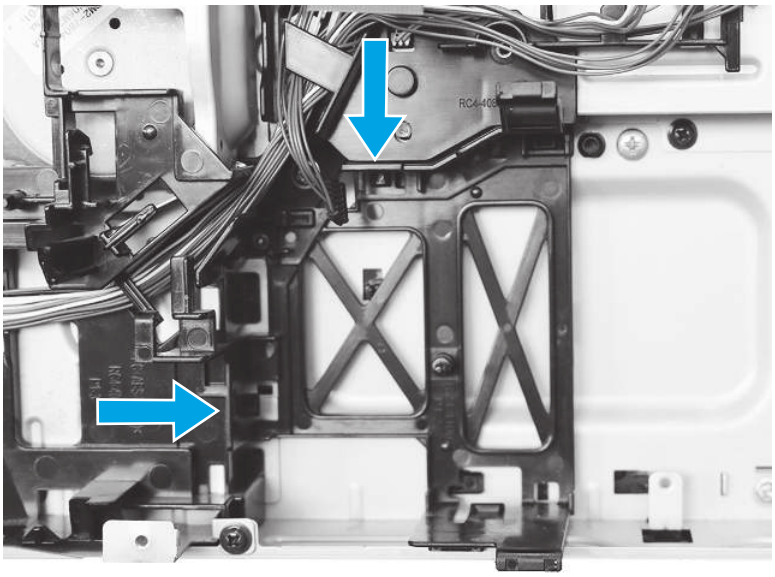
NOTE: The upper cable bracket assembly does not need to be completely removed, simply detached and then moved up out of the way and placed on the top of the printer.

b. Remove the cable routing from the upper cable bracket.

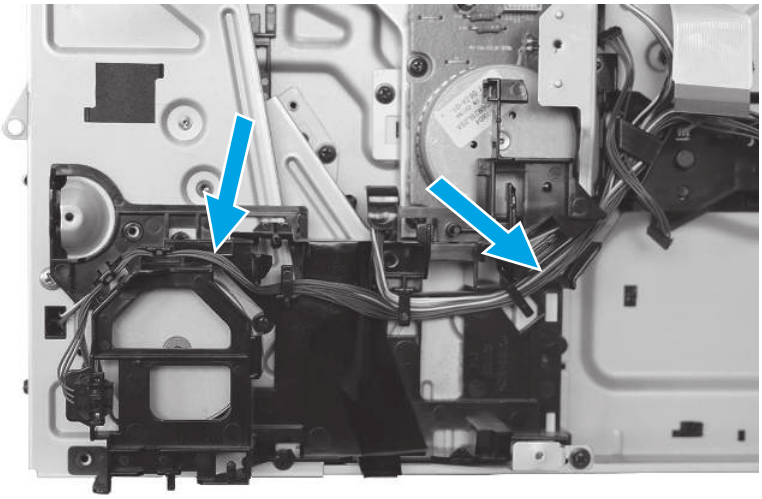
c. Lift up on the left side of the cable bracket (callout 1) and slide the bracket towards the front of the printer (callout 2) to remove the bracket.



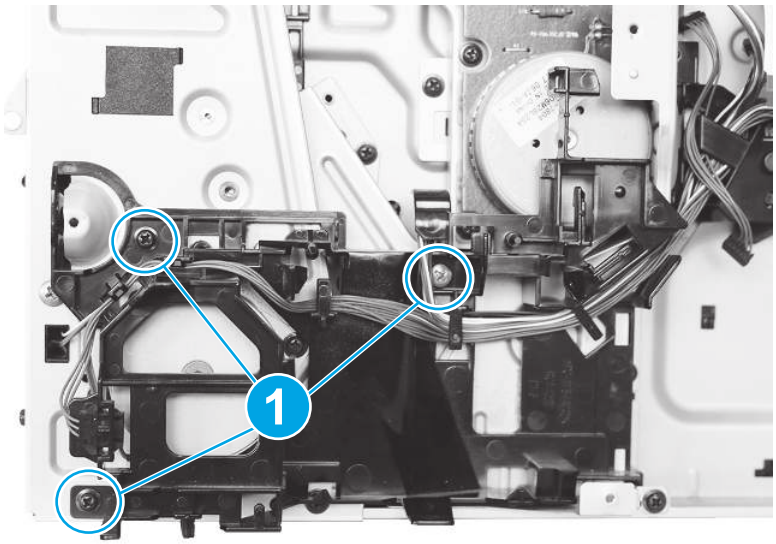
d. Remove the fuser power supply bracket (small lower rear bracket) by pulling in the upper and left side of the bracket and lifting it from the printer.



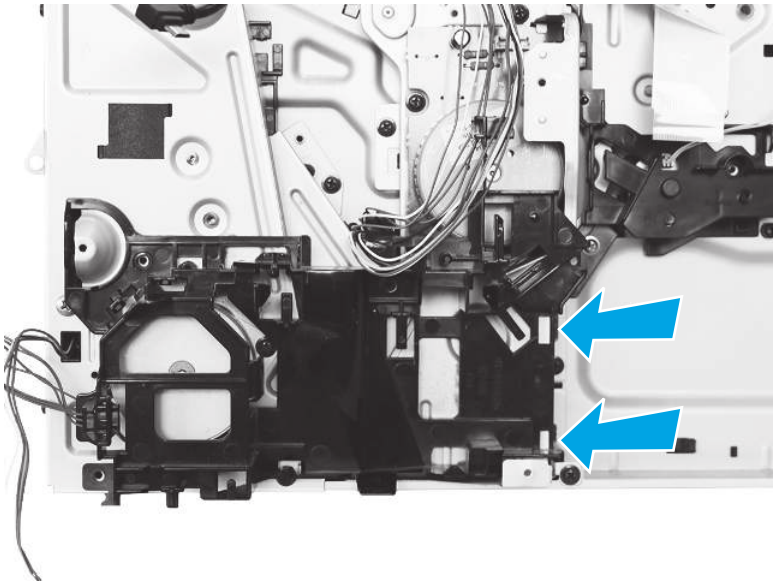
e. Remove the cables from the lower front cable bracket.



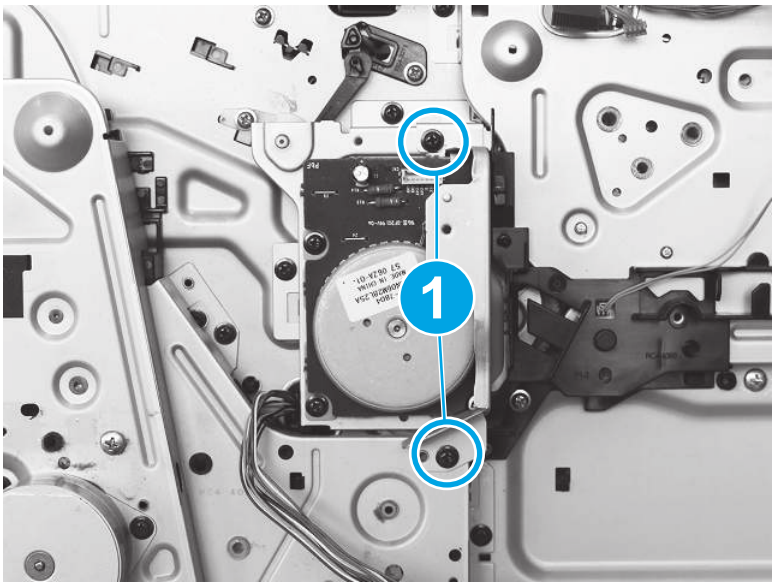
f. Remove three (3) screws (callout 1) from the bracket assembly.



g. Gently pry up the two (2) tabs on the lower right side of the bracket the remove the bracket from the printer.

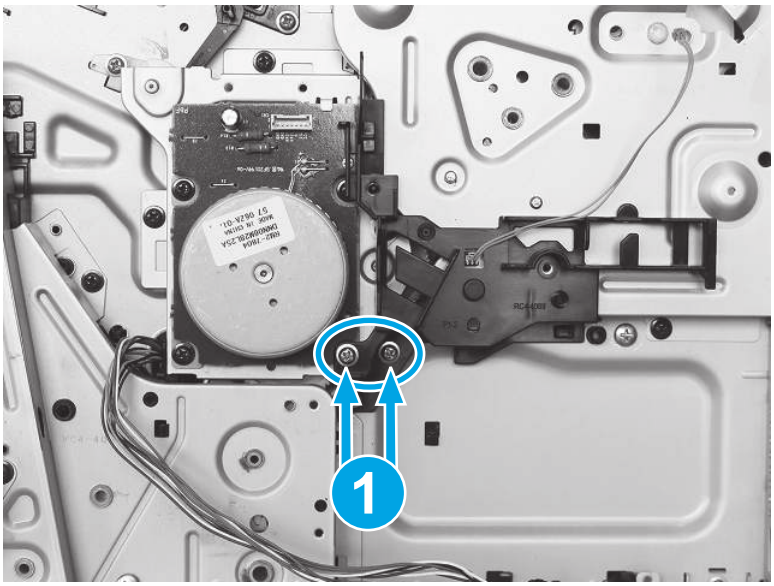


h. Remove two (2) screws (callout 1) from the metal M1 motor shield and remove the shield from the printer.



i. Remove three (2) screws (callout 1) and then remove the cable bracket located to the right of the main motor, M1.

NOTE: Carefully lift off the bracket to ensure that the clutch on the back of the guide does not fall off when removing.

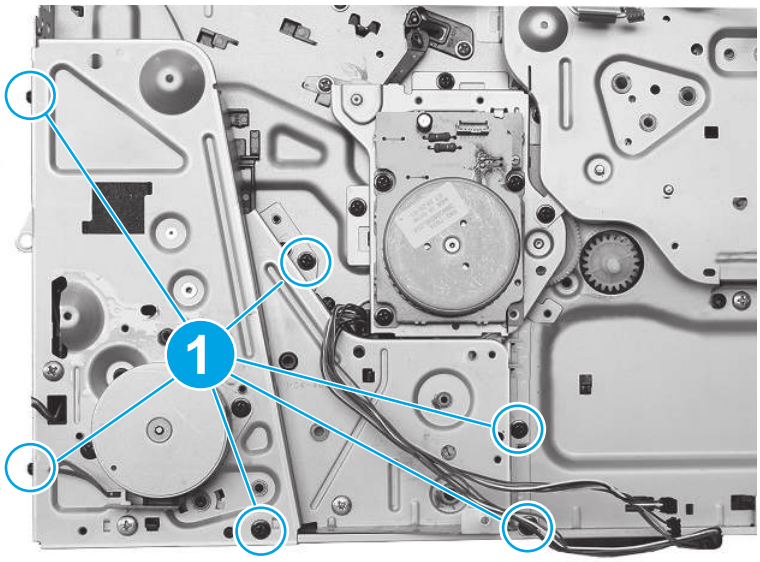


24. Remove the Paper feed drive assembly.

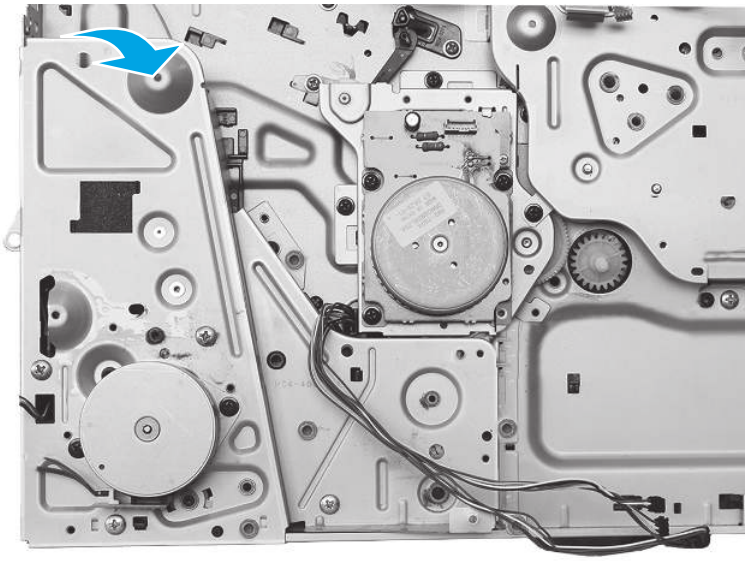
IMPORTANT: It is recommended to bring the printer back to the shop to perform the following removal and replacement repairs.

NOTE: Lay the engine on its left side to make removal or the following parts easier.

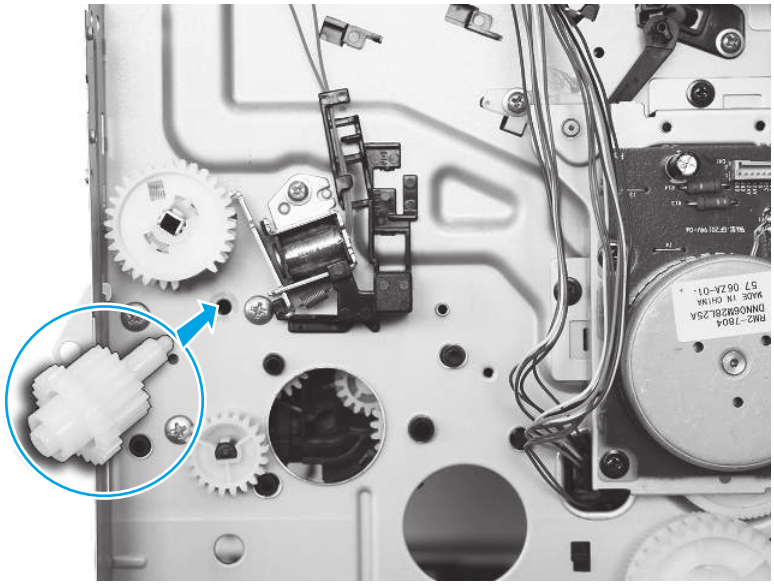
a. Remove six (6) black screws (callout 1).



b. Remove the paper feed drive assembly by gently lifting on the top side and remove it out from the printer.



Reinstallation tip: When reinstalling, ensure the white drive gear is in the right orientation. You may need to adjust before reinstalling the feed drive assembly.



25. Unpack the replacement assembly.

    a. Dispose of the defective part.

    NOTE: HP recommends responsible disposal of the defective part.

    http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

    b. Unpack the replacement part from the packaging.

    CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

    If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

    IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

    c. To install an assembly, reverse the removal steps.

    NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Removal and replacement: Paper delivery assembly

Learn how to remove and replace the delivery assembly.

IMPORTANT: It is recommended to bring the printer back to the shop to perform the following removal and replacement repairs.

Mean time to repair: 60 minutes

Service level: Difficult

Before performing service

Turn the printer power off

- Disconnect the power cable.

> ⚠ **WARNING!** To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-45 Part information

Part number	Part description
RM2-5684-000CN	Simplex paper delivery assembly
RM2-5683-000CN	Duplex paper delivery assembly

Required tools

- Small flat-blade screwdriver
- #2 Phillips screwdriver with a magnetic tip and a 152 mm (6 in) shaft length

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

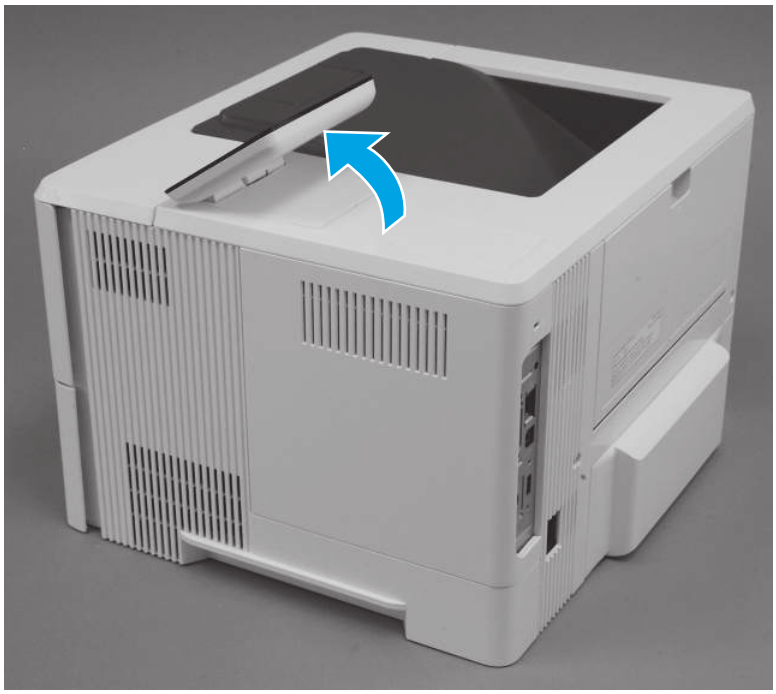
Make sure that the printer initializes to a **Ready** state.

1. Remove the control panel (M506x/E50045x/M507x/E50145x)

Follow these steps to remove the control panel (M506x/E50045x/M507x/E50145x).

1. Tilt the control panel to the fully raised position.

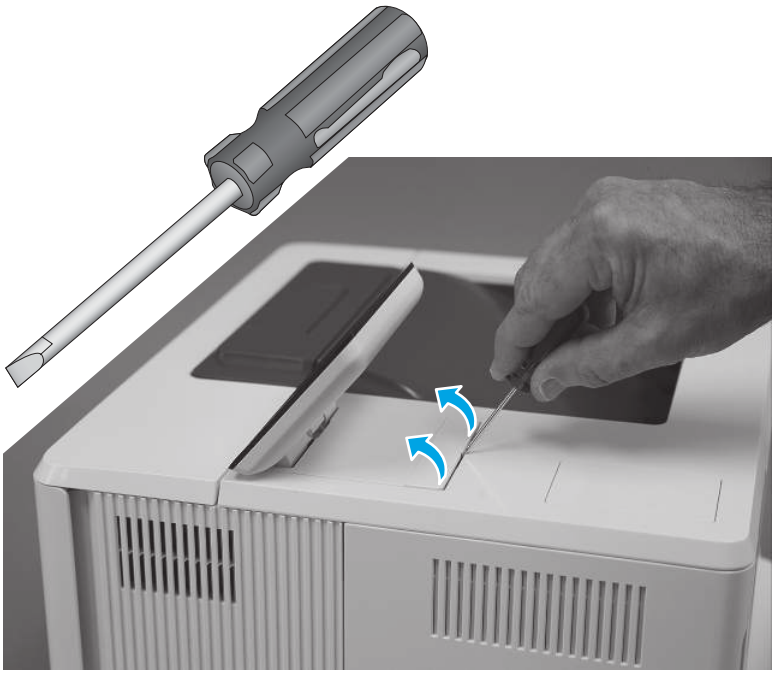
Figure 1-1284 Tilt the control panel up



2. Use the small flat-blade screwdriver supplied in the kit to release the control-panel screws cover, and then remove the cover.

TIP: The screwdriver has a reversible shaft. Simply pull the shaft out of the handle, and then reinstall it with the desired end facing out.

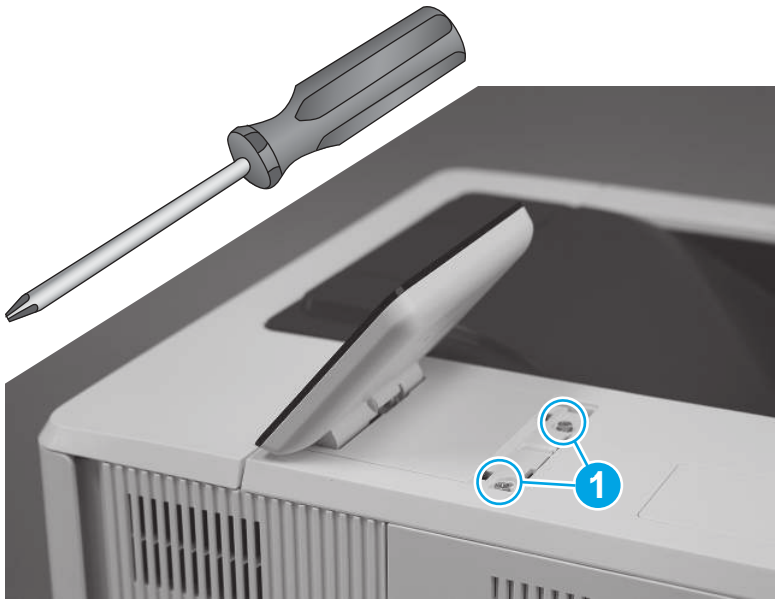
Figure 1-1285 Remove the cover



3. Use the small Phillips screwdriver supplied in the kit to remove two screws (callout 1).

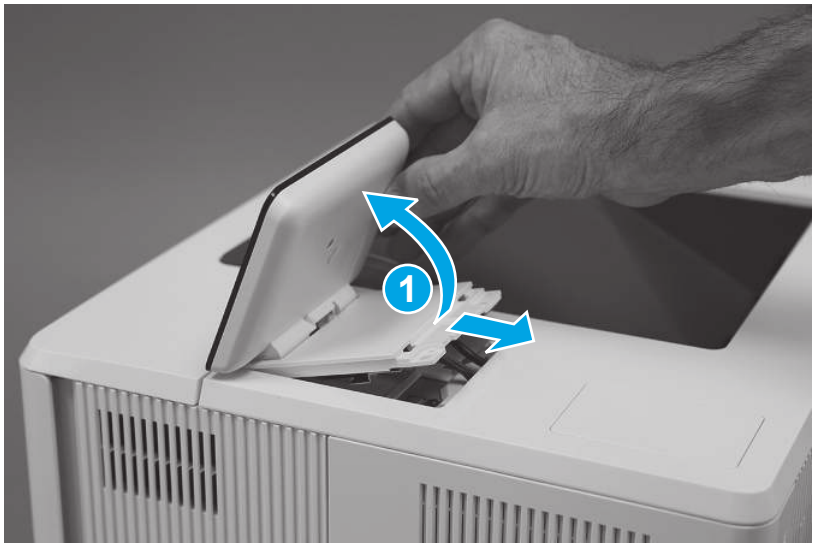
IMPORTANT: Store the screws in a secure place where they cannot fall down into the printer.

Figure 1-1286 Remove two screws



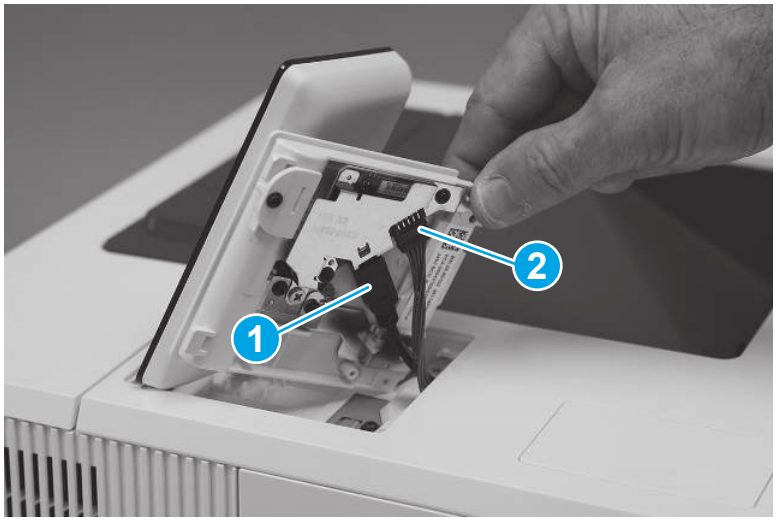
4. Turn the control panel over (callout 1), to gain access to the bottom side.

Figure 1-1287 Turn the control panel over



5. **M506/E50045 only**: Disconnect one HDMI cable (callout 1), one connector (callout 2), and then remove the control panel.

Figure 1-1288 Remove the control panel (M506/E50045)



6. **M507/E50154 only**: If the formatter cover has not been removed, remove it now. Disconnect one flat-flexible cable (FFC).

CAUTION: ESD sensitive part.

NOTE: This connector is a zero-insertion force (ZIF) connector. Open the locking clip. The clip is easily dislodged and lost.

Figure 1-1289 Disconnect one FFC (M507/E50145)

7. **M507/E50145 only**: Pass the FFC through the opening in the cover, and then remove the control panel.

CAUTION: ESD sensitive part.

Figure 1-1290 Remove the control panel (M507/E50145)

2. Remove the tray

Follow these steps to remove the tray.

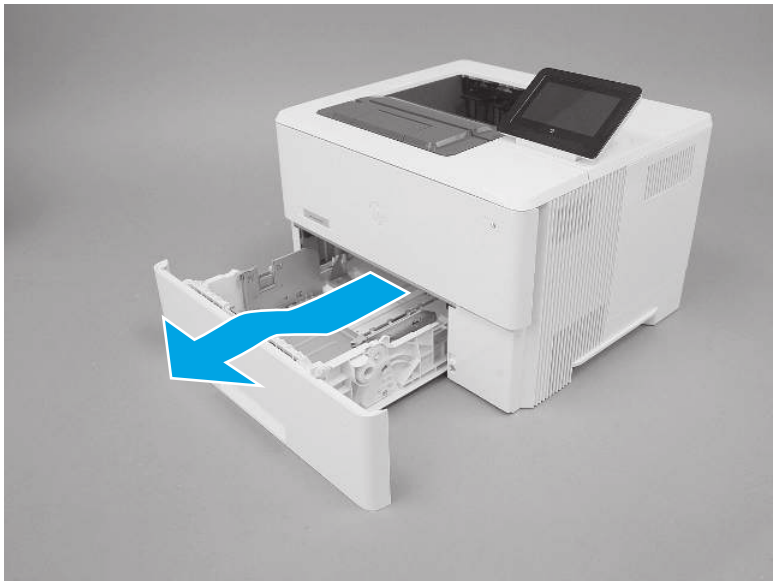
1. Pull the tray straight out of the printer until it stops.

Figure 1-1291 Pull the tray out until it stops

2. Lift the front of the tray, and then pull it out of the printer to remove it.

NOTE: If the tray has Fixed Tray Guides installed and are still required, move the hardware to new tray. If necessary, order new kit: 3GY19-67901 Kit-Fixed Tray Guide. Only one kit required per engine.

Figure 1-1292 Release and remove the tray



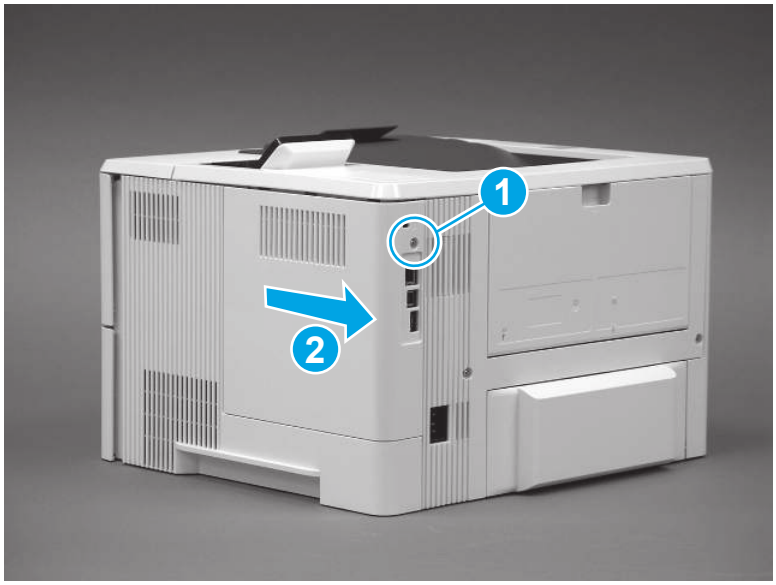
3. Remove the formatter cover

Follow these steps to remove the formatter cover.

▲ Do one of the following:

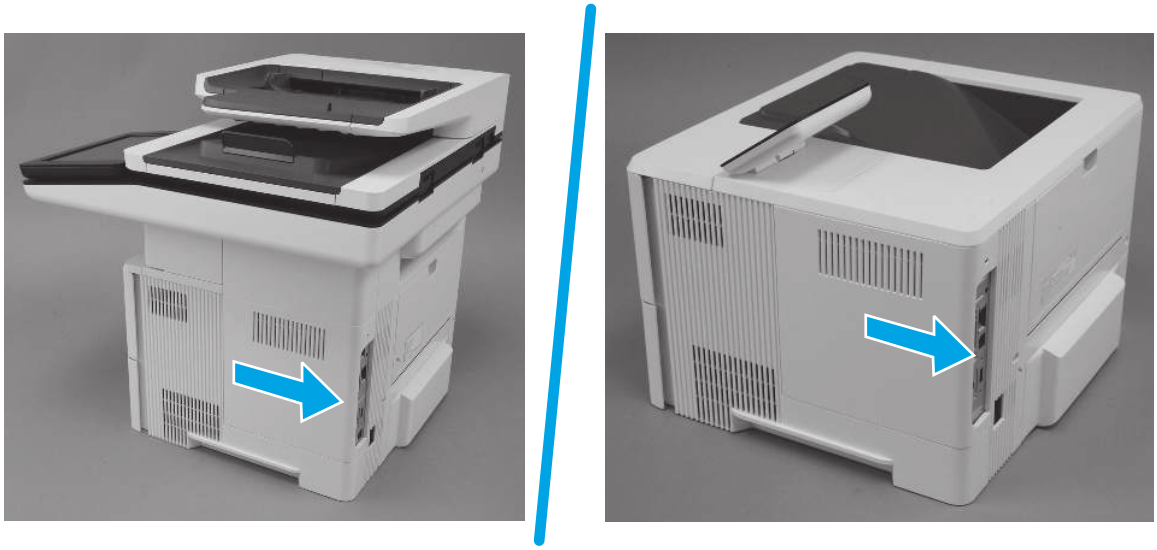
- M501: Remove one screw (callout 1), and then slide the cover toward the rear of the printer to remove it (callout 2).

  Figure 1-1293 Remove the formatter cover (M501)

- M506/E50045/M507/E50145/M527/E52545/M528/E52645: Slide the cover toward the rear of the printer to remove it.

Figure 1-1294 Remove the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)



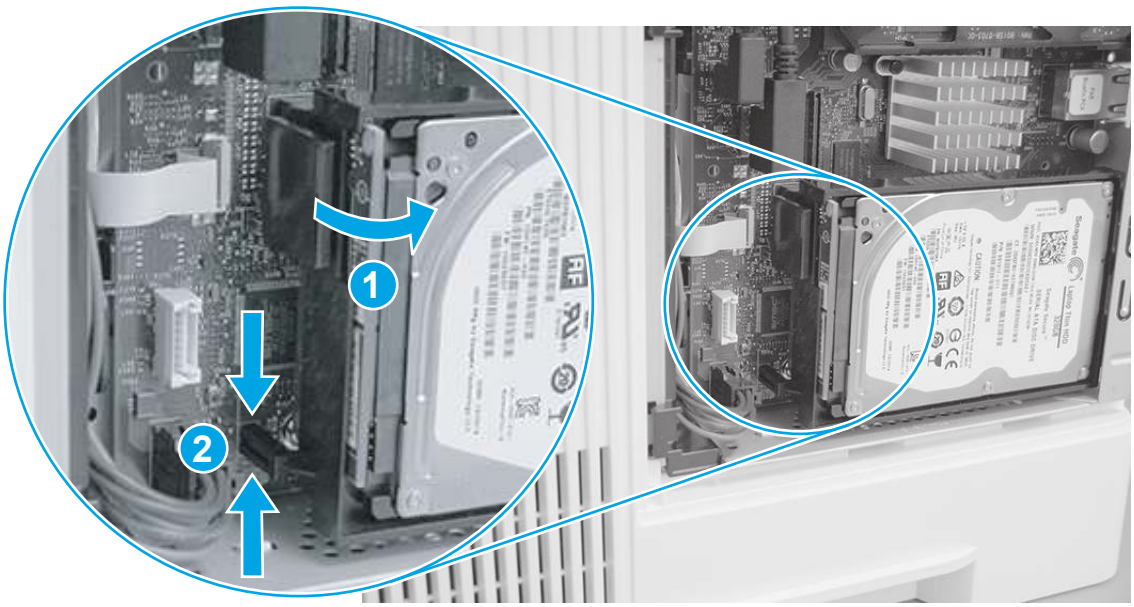
4. Remove the hard-disk drive (HDD models)

Follow these steps to remove the hard-disk drive (HDD models).

⚠ CAUTION: ESD sensitive part.

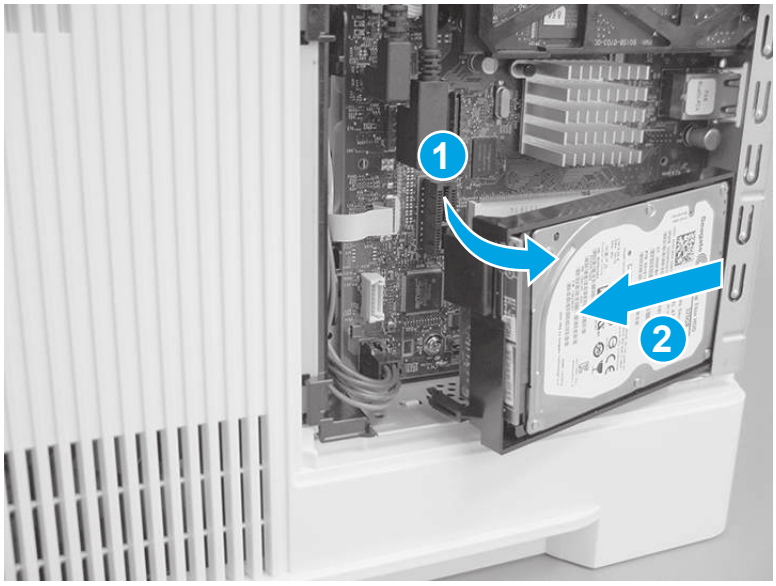
1. Release the locking connector (callout 1), and then pinch the retainer (callout 2) to release it.

Figure 1-1295 Release the HDD



2. Rotate the connector end of the HDD out and away from the formatter (callout 1), and then slide it as shown (callout 2) to remove it.

Figure 1-1296 Remove the HDD



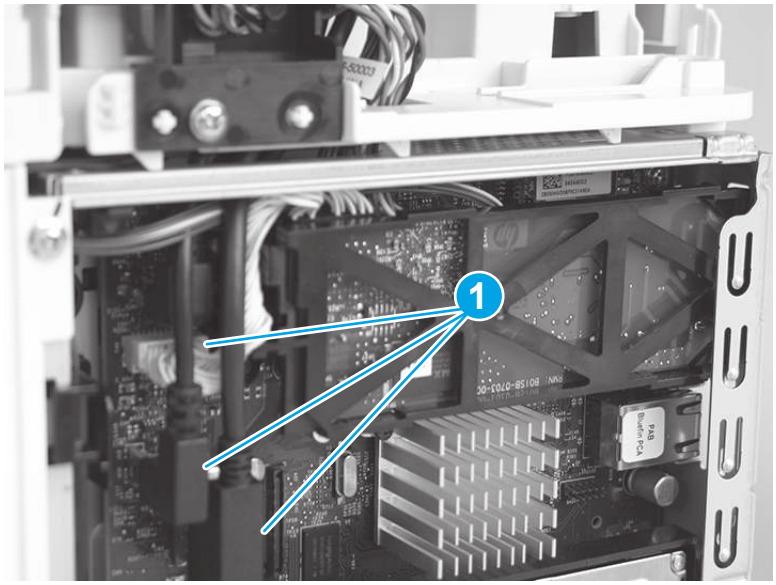
5. Remove the fax PCA (M527/E52545/M528/E52645 fax models)

Follow these steps to remove the fax PCA (M527/E52545/M528/E52645 fax models).

⚠ CAUTION: ESD-sensitive part.

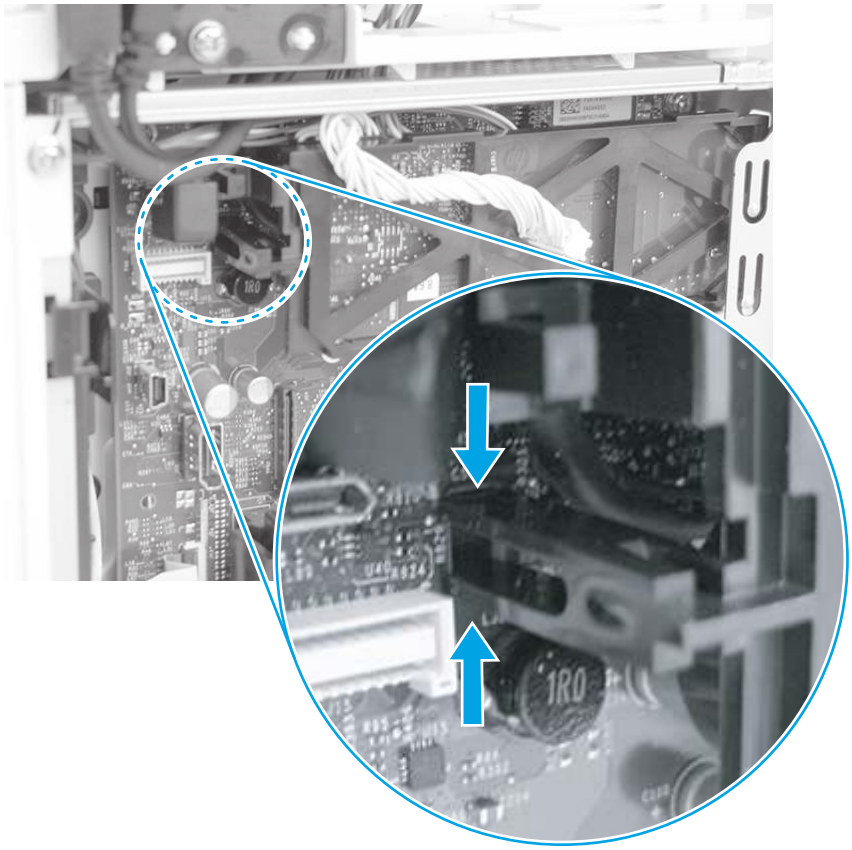
1. Disconnect three connectors (callout 1).

Figure 1-1297 Disconnect three connectors



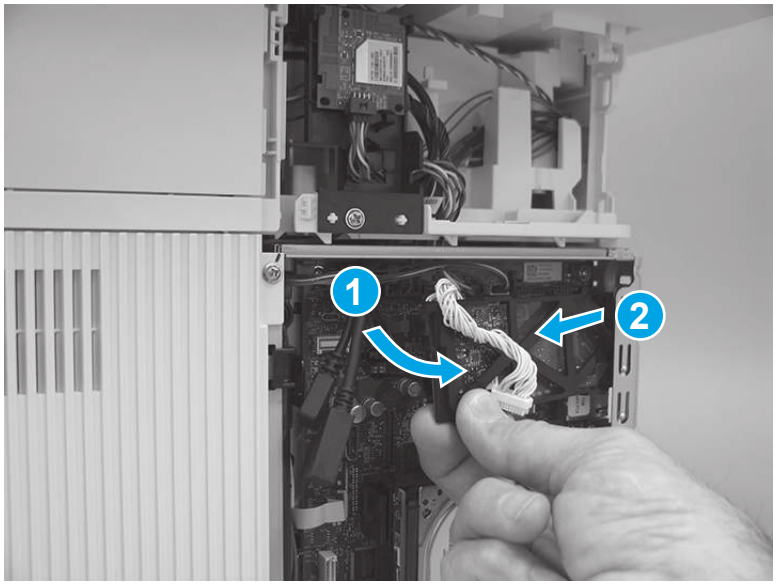
2. Pinch the retainer to release it.

Figure 1-1298 Release the fax PCA



3. Rotate the connector end of the fax PCA out and away from the formatter (callout 1), and then slide it as shown (callout 2) to remove it.

Figure 1-1299 Remove the fax PCA



6. Remove the formatter

Follow these steps to remove the formatter.

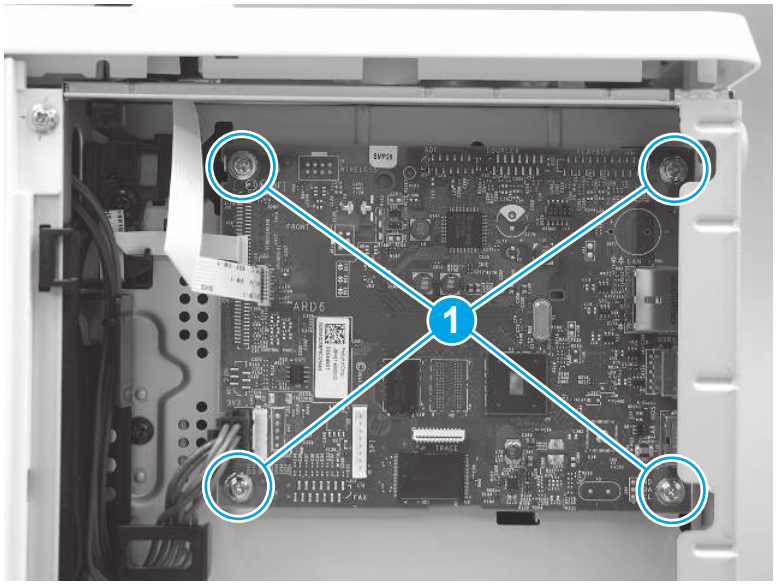
⚠ **CAUTION:** Never remove and then install a replacement DCC and formatter at the same time. Doing so will cause the printer to become unstable.

If a replacement DCC and formatter must be installed, first remove and install the formatter. Test operate the printer, and then if necessary install a replacement DCC.

IMPORTANT: Take note of all empty connectors on the PCA before disconnecting any wire harnesses or flat-flexible cables (FFCs). Some empty connectors might not be visible until other items—like the hard-disk drive—are removed, so pay close attention while removing the formatter and accessory items.

1. **M501**: Disconnect all of the connectors and FFCs, remove four screws (callout 1), and then remove the formatter.

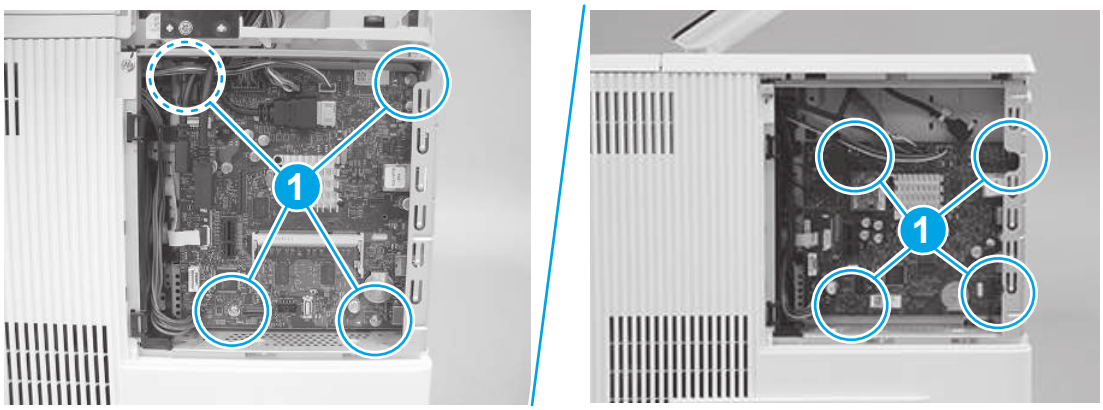
Figure 1-1300 Remove the formatter (M501)



2. **M506/E50045/M507/E50145/M527/E52545/M528/E52645**: Disconnect all of the connectors and FFCs, remove four screws (callout 1), and then remove the formatter.

IMPORTANT: Take note of all empty connectors on the formatter before disconnecting any wire harnesses or flat-flexible cables (FFCs). Some empty connectors might not be visible until other items—like the hard-disk drive—are removed, so pay close attention while removing the formatter and accessories items.

Figure 1-1301 Remove the formatter (M506/E50045/M507/E50145/M527/E52545/M528/E52645)



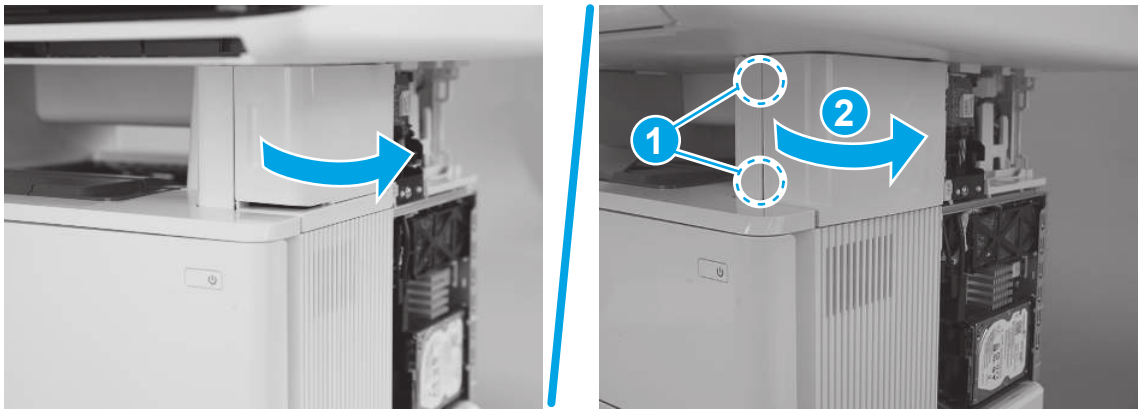
7. Remove the stapler door or stapler blank cover (M527/E52545/M528/E52645)

Follow these steps to remove the stapler door or stapler blank cover (M527/E52545/M528/E52645).

1. Do one of the following:

   - **Stapler models**: Open the stapler door.
   - **Non-stapler models**: Use a small flat-blade screw driver to release two tabs (callout 1), and then rotate the cover away from the printer (callout 2).

Figure 1-1302 Open the door or release the cover



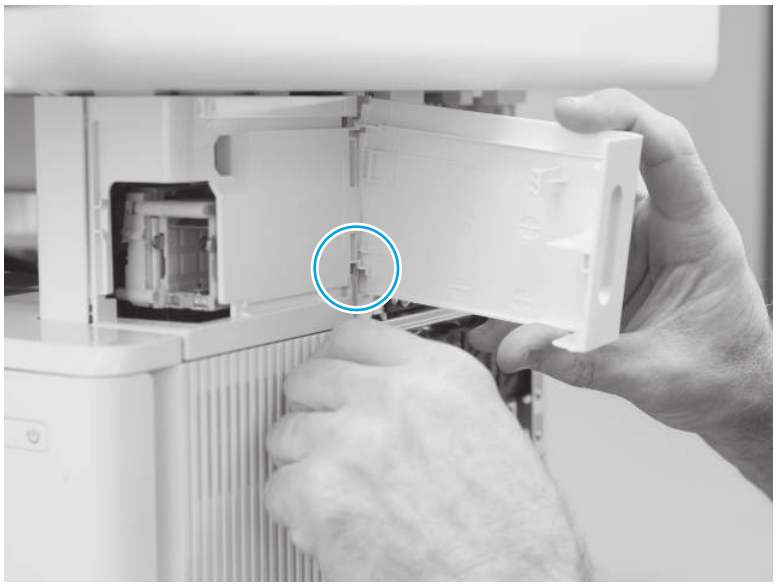
2. Do one of the following:

   - **Stapler models**: Use a small flat-blade screwdriver to release the upper hinge.
   - **Non-stapler models**: Slide the cover toward the front of the printer to remove it.

Figure 1-1303 Release the upper hinge or remove the cover

3. **Stapler models**: Use a small flat-blade screwdriver to release the lower hinge.

Figure 1-1304 Release the lower hinge



4. **Stapler models**: Remove the door.

Figure 1-1305 Remove the door

8. Remove the stapler stationary (inner) cover (M527/E52545/M528/E52645)

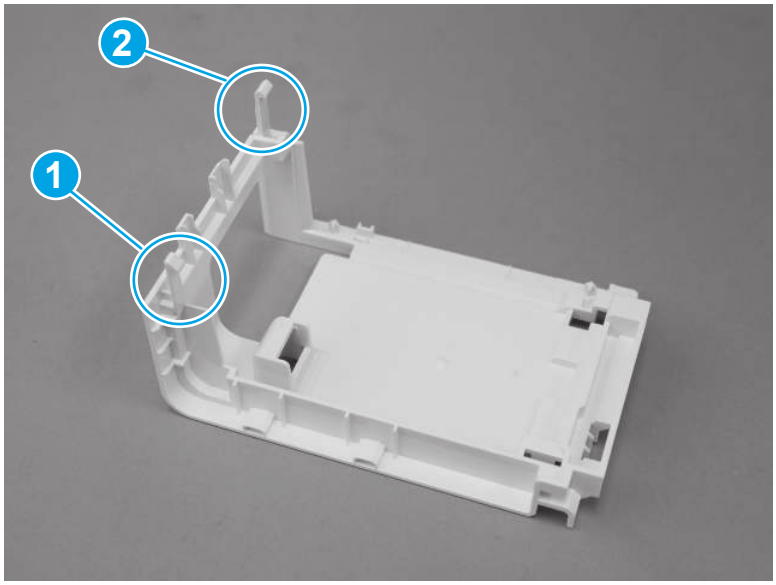
Follow these steps to remove the stapler stationary (inner) cover (M527/E52545/M528/E52645).

NOTE: Stapler models only.

1. Before proceeding, take note of the locations of the upper tab (callout 1) and the lower tab (callout 2) on the stapler stationary (inner) cover.

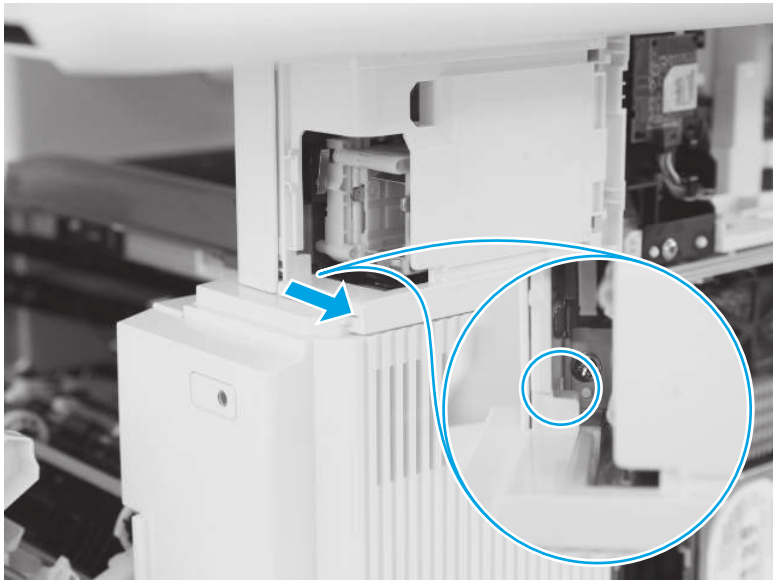
Reinstallation tip: When reinstalling the cover, take note of the location of the tabs.

Figure 1-1306 Locate the tabs



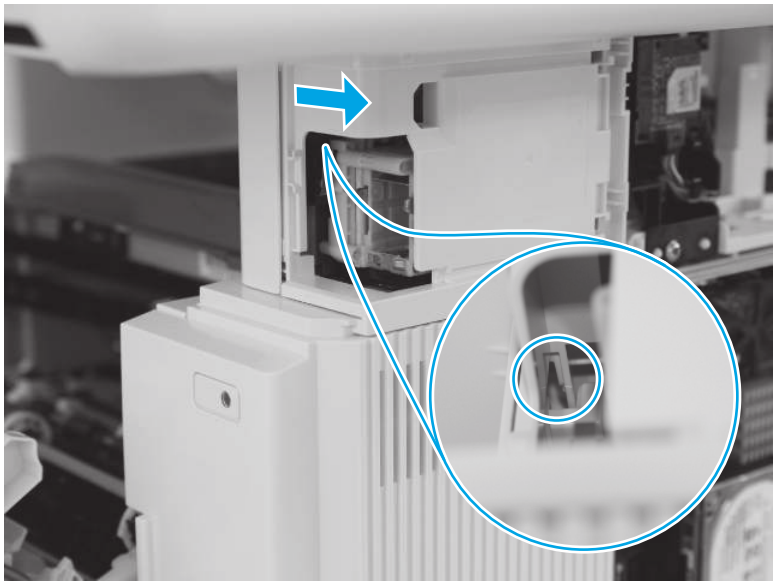
2. Use a long-shaft small flat-blade screwdriver to release the lower tab.

Figure 1-1307 Release one tab



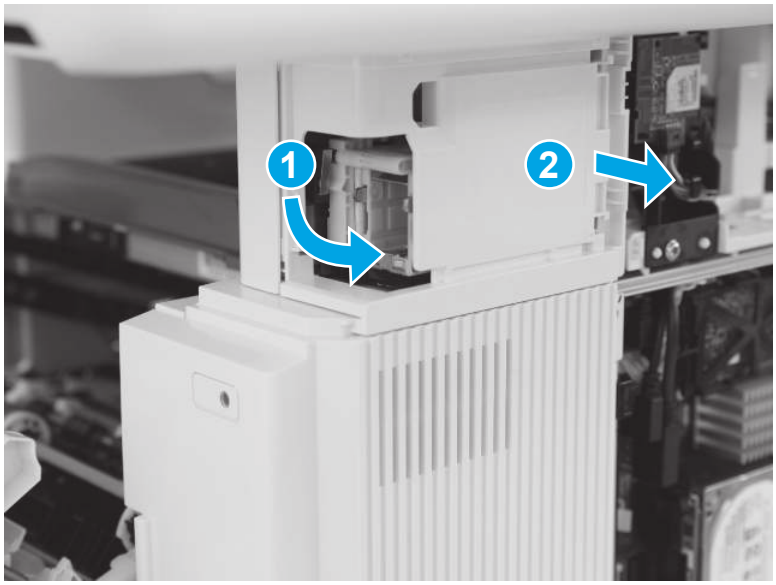
3. Use a long-shaft small flat-blade screwdriver to release the upper tab.

Figure 1-1308 Release one tab



4. With the tabs disengaged the front of the cover is released. Rotate the front of the cover away from the printer (callout 1) to release the rear of the cover (callout 2), and then remove it.

Figure 1-1309 Remove the cover

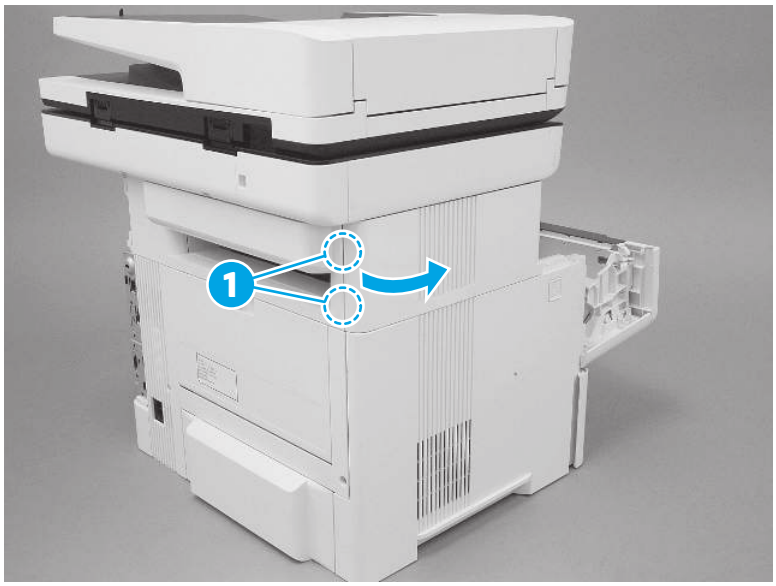


9. Remove the top-left cover (M527/E52545M528/E52645)

Follow these steps to remove the top-left cover (M527/E52545M528/E52645).

1. Open the toner-cartridge door, release two tabs (callout 1), and then rotate the rear edge of the cover away from the printer.

Figure 1-1310 Release two tabs



2. Continue to rotate the cover away from the printer to release two more tabs at the middle of the cover.

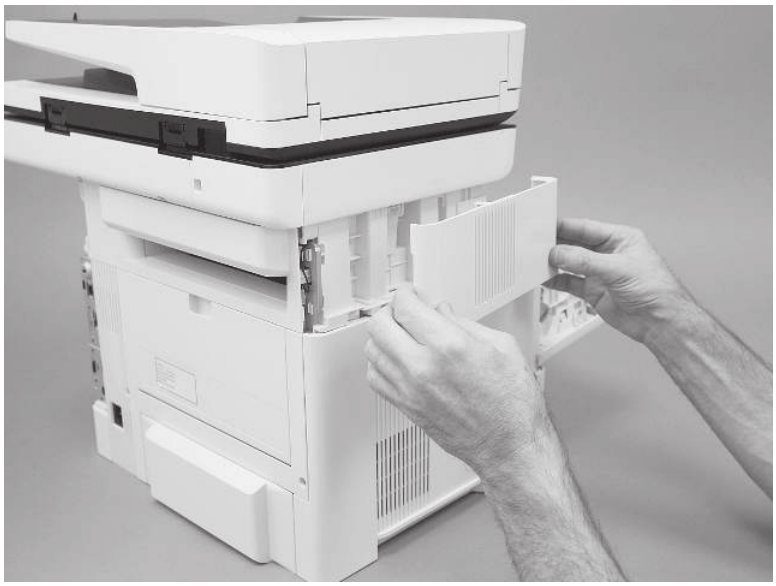
Figure 1-1311 Release two tabs

3. Slide the cover toward the rear of the printer to release two bosses at the front of the cover.

Figure 1-1312 Slide the cover

4. Remove the cover.

Figure 1-1313 Remove the cover

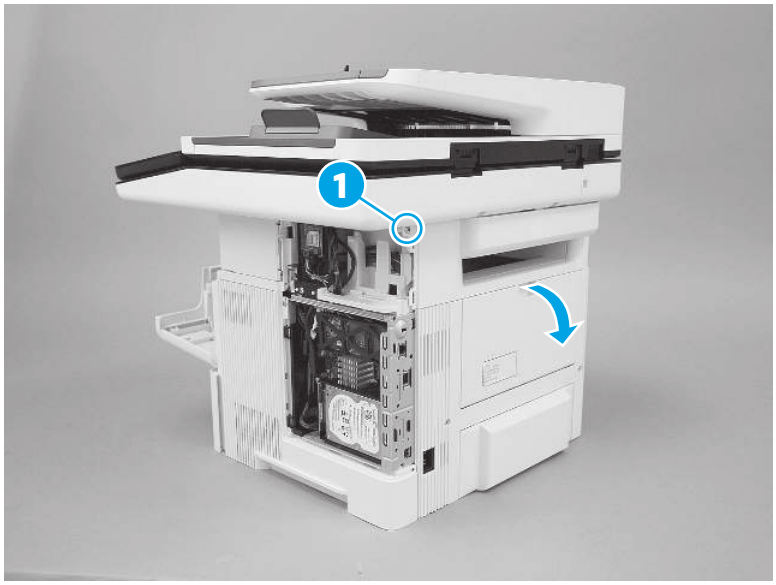


10. Remove the top-rear cover (M527/E52545/M528/E52645)

Follow these steps to remove the top-rear cover (M527/E52545/M528/E52645).

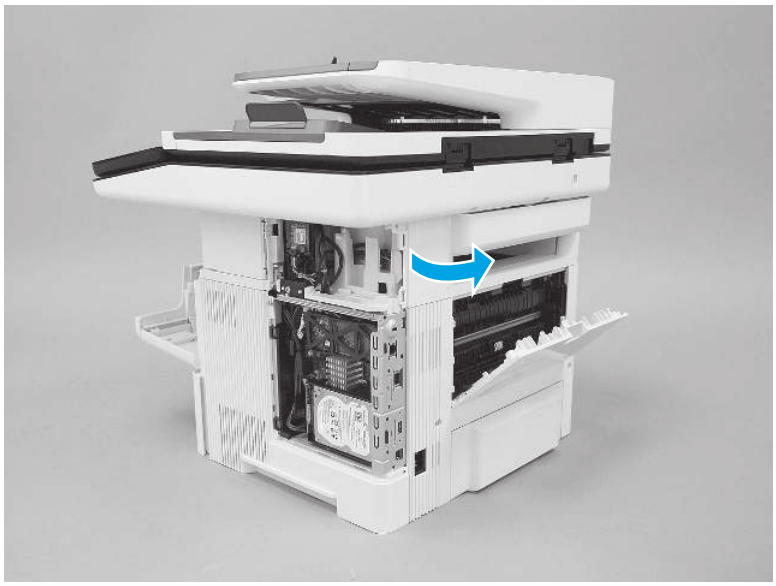
1. Remove one screw (callout 1), and then open the rear door.

Figure 1-1314 Remove one screw



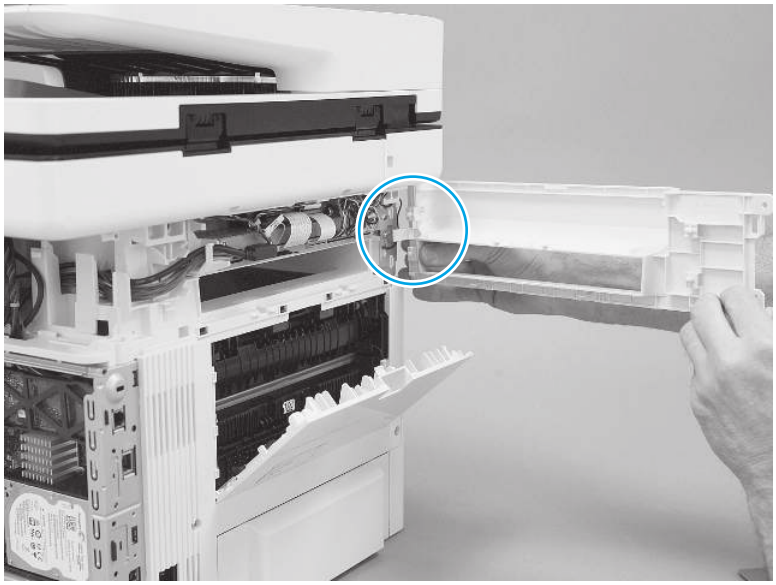
2. Rotate the exposed edge of the cover away from the printer (as shown).

Figure 1-1315 Rotate the cover



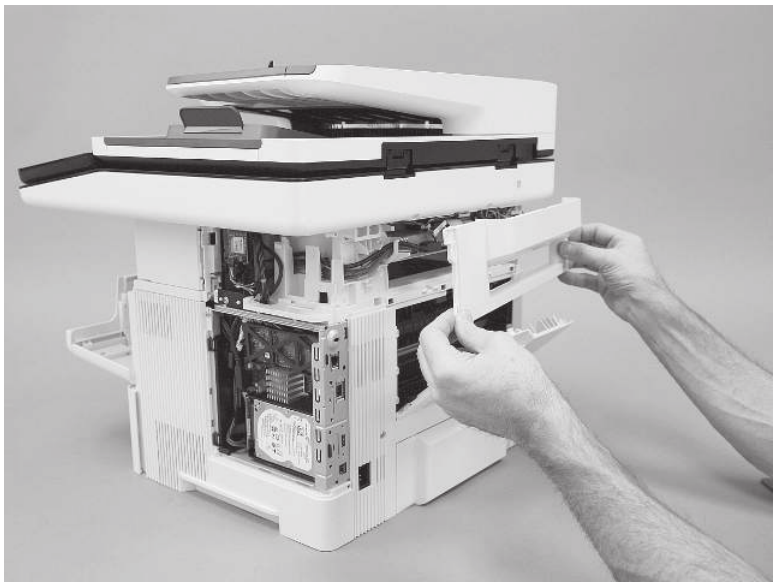
3. Continue to rotate the cover away from the printer to release one boss.

Figure 1-1316 Release one boss



4. Remove the cover.

Figure 1-1317 Remove the cover

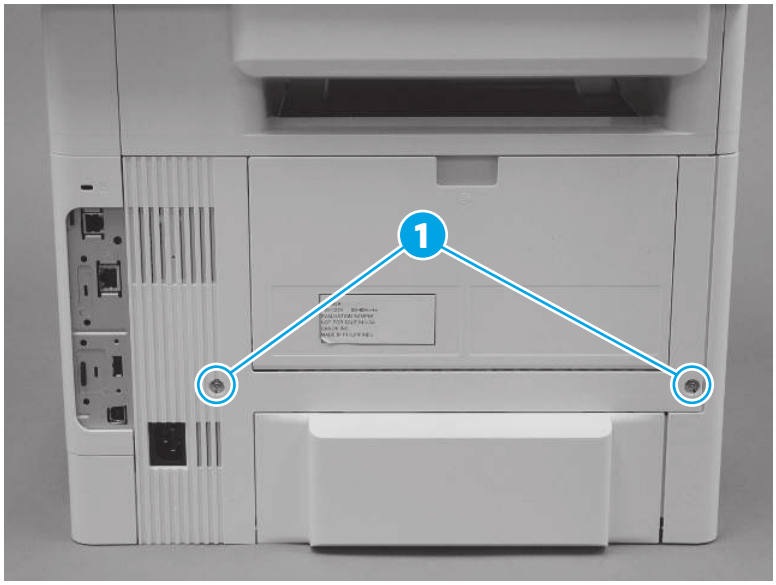


11. Remove the rear door assembly

Follow these steps to remove the rear door assembly.

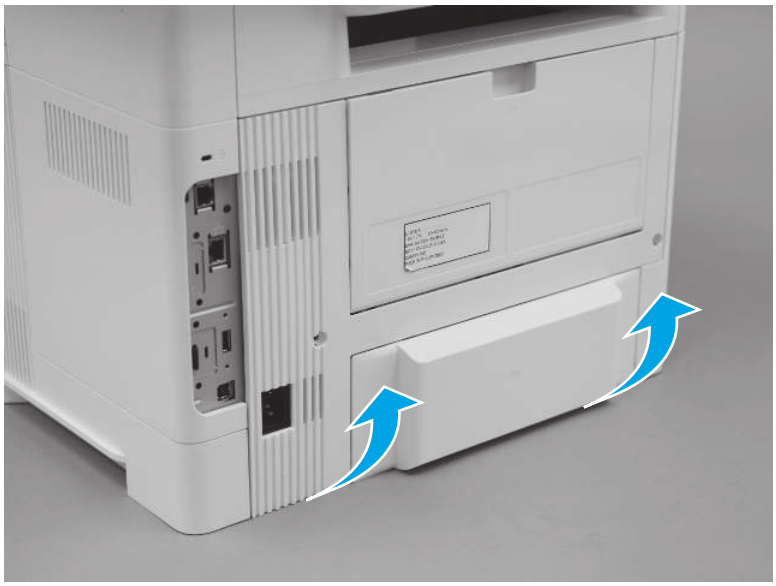
1. At the rear of the printer, remove two screws (callout 1).

Figure 1-1318 Remove two screws



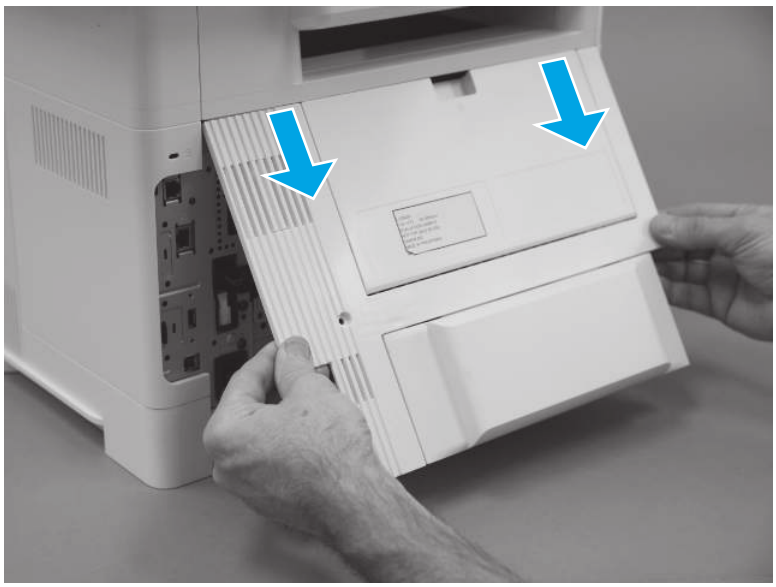
2. Rotate the bottom edge of the assembly away from the printer to release it.

Figure 1-1319 Rotate the bottom of the cover



3. Pull down on the assembly to remove it.

Figure 1-1320 Remove the cover



12. Remove the cartridge door assembly

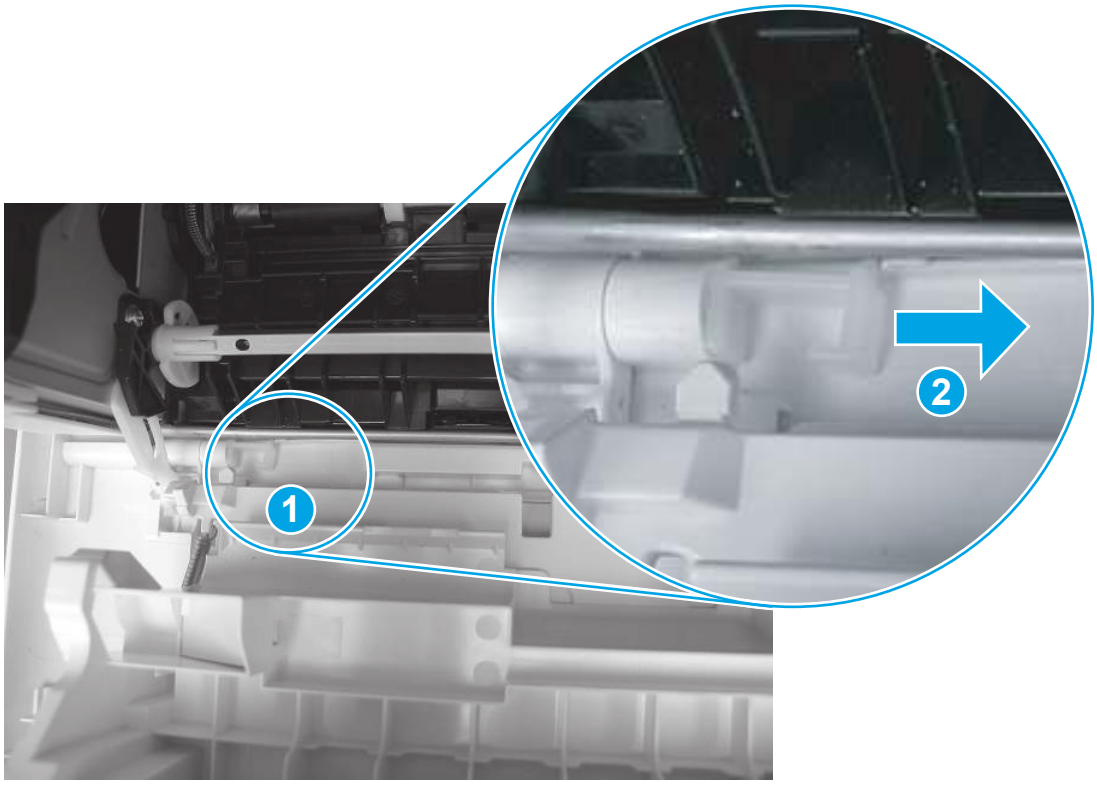
Follow these steps to remove the cartridge door assembly.

NOTE: If the toner cartridge was not removed prior to servicing the printer, remove it now.

1. Release the support shaft (callout 1), and then slide it toward the center of the door (callout 2).

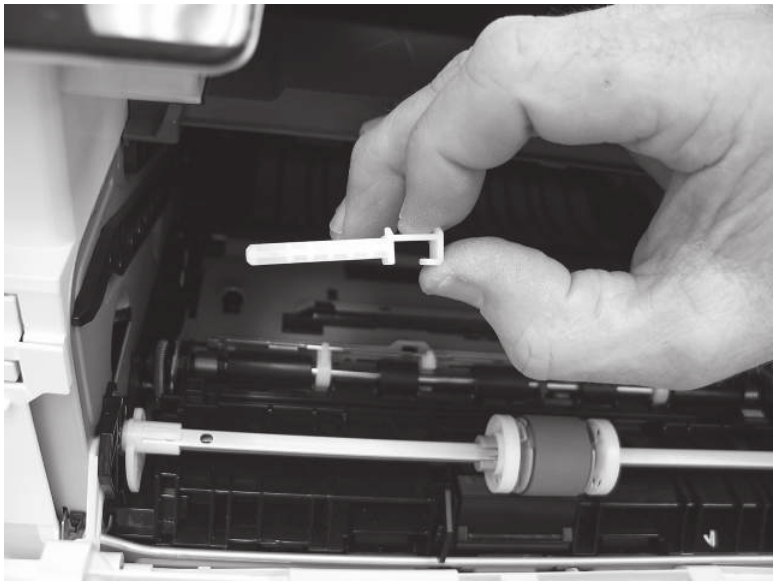
TIP: It might be easier to release the support shaft by using a small flat-blade screwdriver.

Figure 1-1321 Release the support shaft



2. Remove the support shaft.

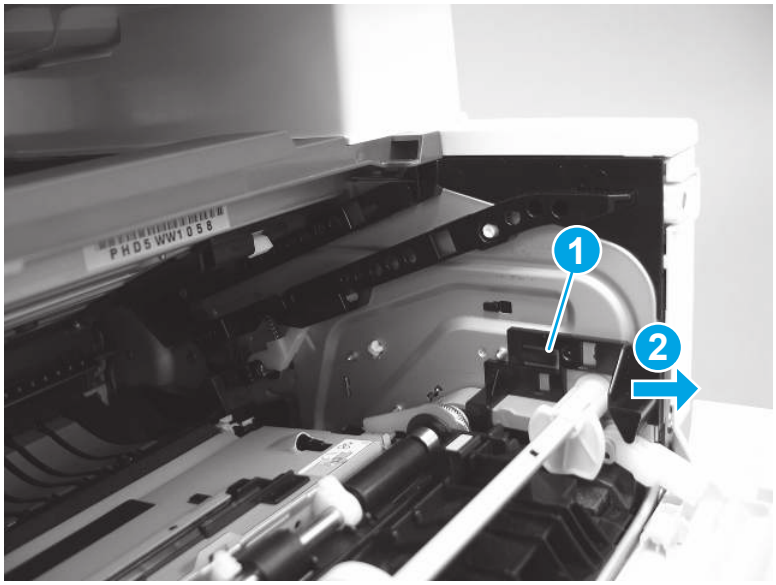
Figure 1-1322 Remove the support shaft



3. Release one tab (callout 1), and then slide the guide out of the printer (callout 2).

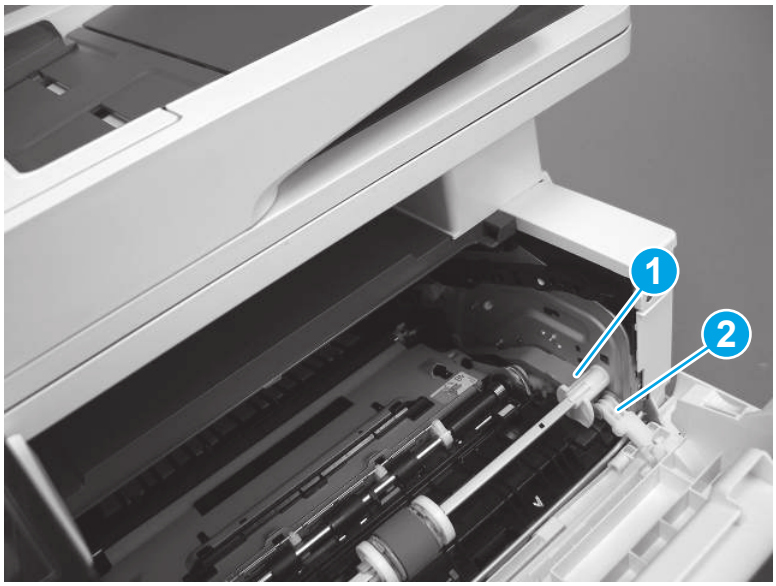
⚠ CAUTION: Be careful, the tab (callout 1) can be easily broken.

Figure 1-1323 Remove the guide



4. Use a small flat-blade screwdriver to gently pry the white-plastic door arm (callout 1) off of the gray-plastic pressure-release link (callout 2) to release the door arm.

Figure 1-1324 Release the pressure-release link



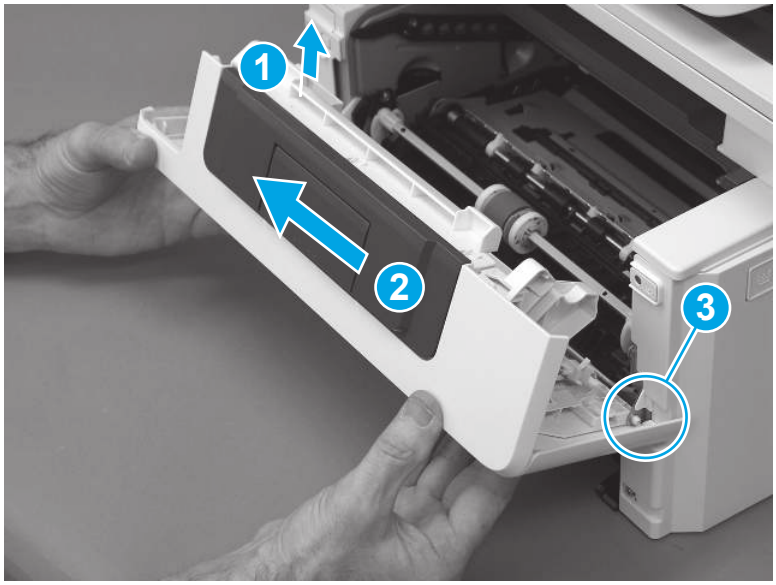
5. With the door in the partially closed position, slightly raise the left end (callout 1; raise it over the sheet-metal hinge boss), and then slide the door to the left (callout 2) to release the right hinge (callout 3).

⚠ CAUTION: The door is still attached to the printer by the left-side retainer arm. Do not attempt to completely remove the door.

Reinstallation tip: When reinstalling the door, there are two right-side hinge pins (not shown in callout 3).

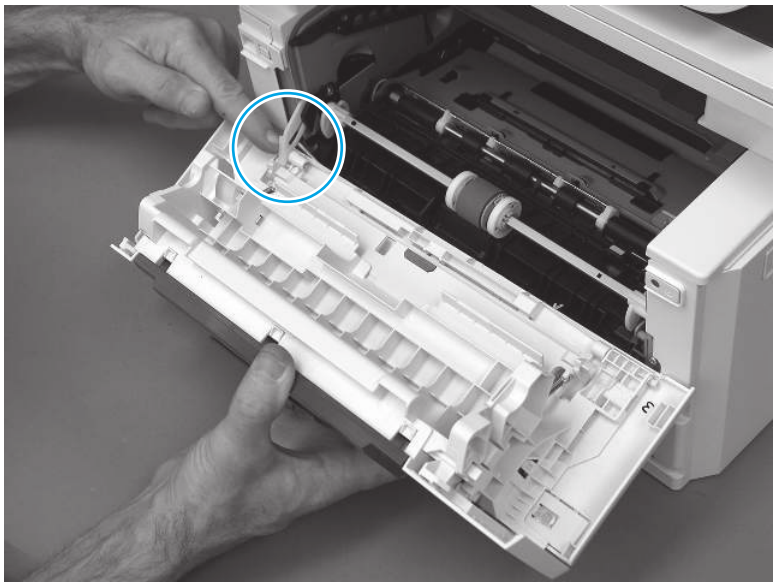
Keep a finger pressed on the left-side retainer arm so that it does not disengage from the door.

Figure 1-1325 Release the door



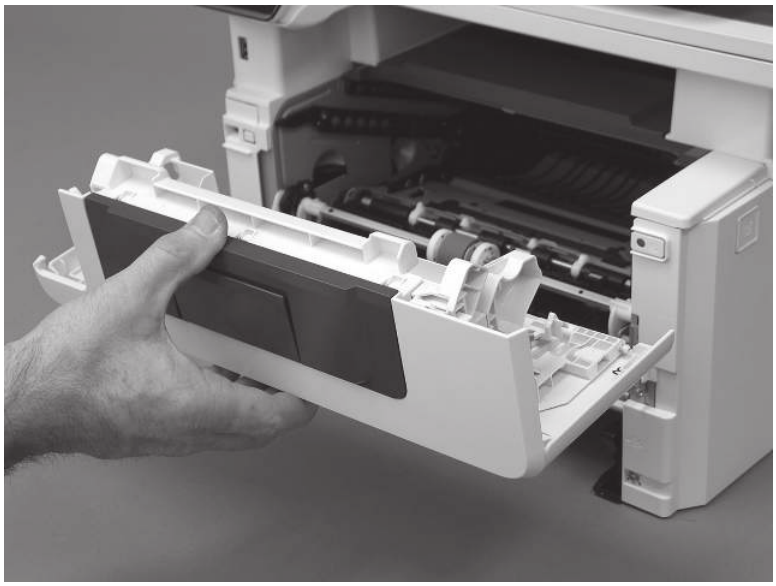
6. Rotate the door away from the printer until the keyed pin on the left-side retainer arm can disengage from the door.

Figure 1-1326 Release the left-side retainer arm



7. Remove the door.

Figure 1-1327 Remove the door



13. Remove the right cover

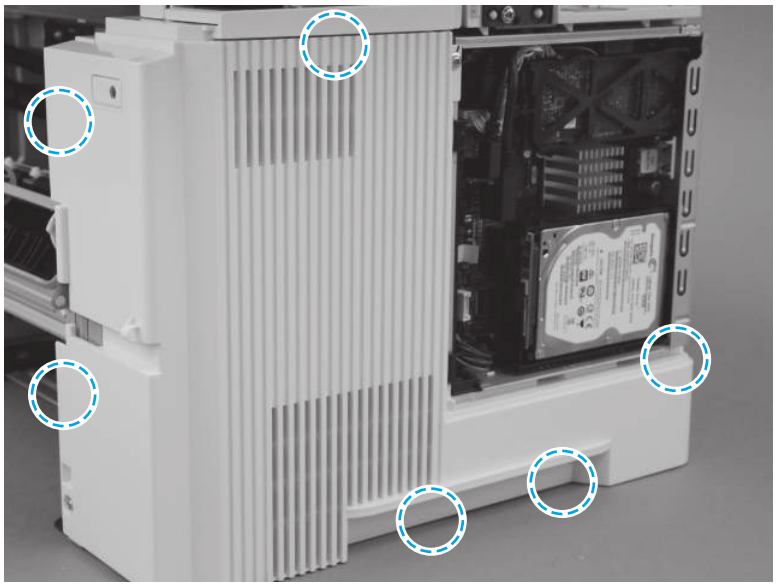
Follow these steps to remove the right cover.

IMPORTANT: The black-plastic cassette front and rear guides (located inside the tray cavity) can be easily dislodged. Do not lose the guides when the cover is removed or installed.

An MFP printer is shown in this section. However, the procedure is correct for all printer models.

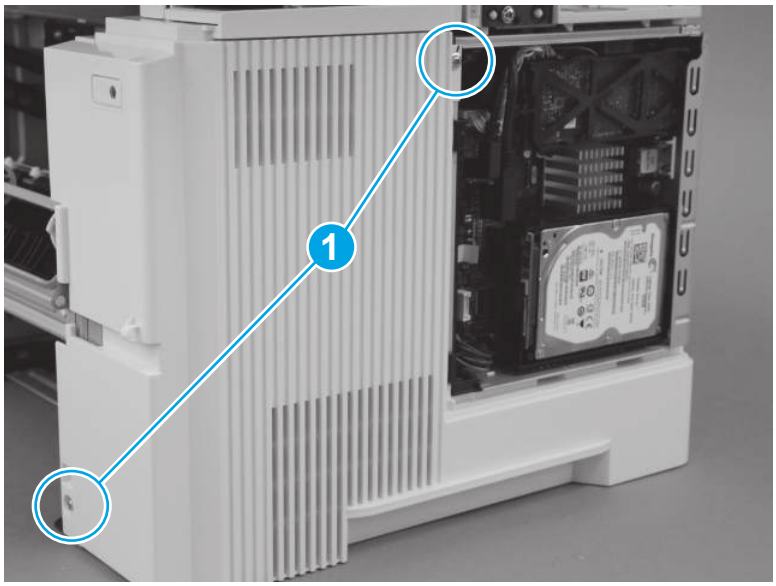
1. Before proceeding, take note of the location of the tabs and bosses on the inside of the cover.

Figure 1-1328 Locate the tabs and bosses



2. Remove two screws (callout 1).

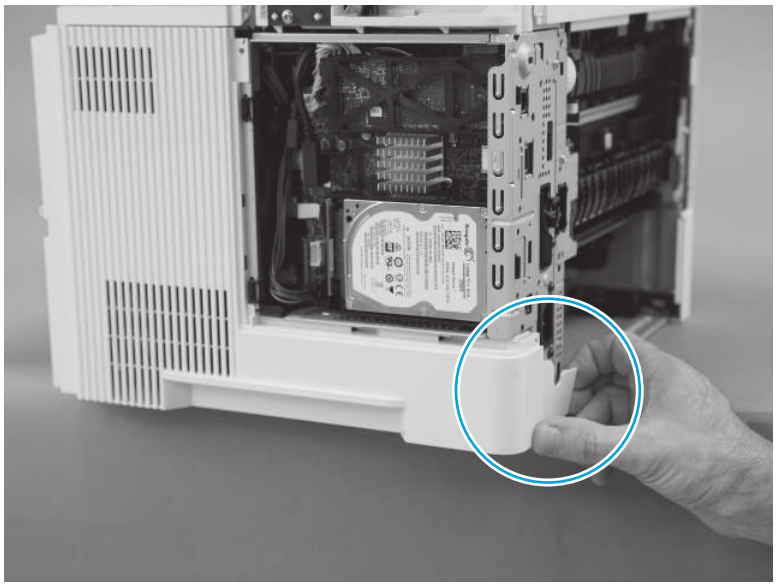
Figure 1-1329 Remove two screws



3. At the rear of the printer, release one boss.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

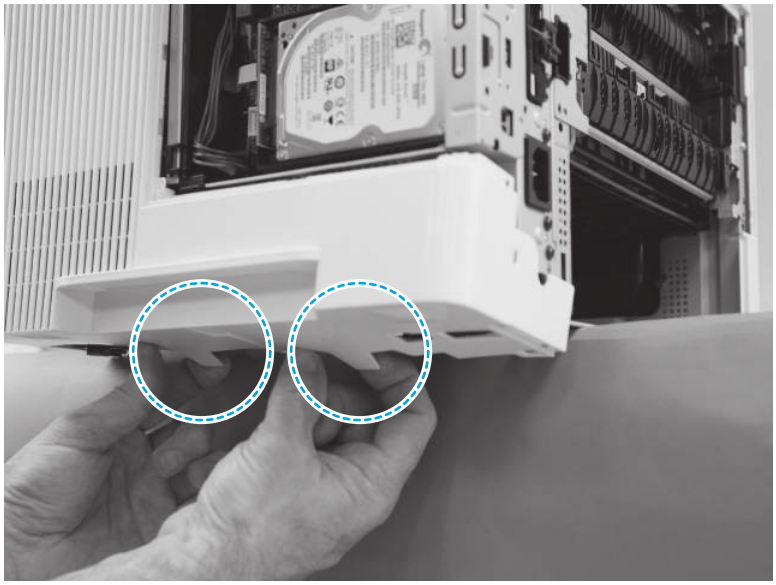
Figure 1-1330 Release one boss



4. At the bottom edge of the cover, release two bosses.

⚠ CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

Figure 1-1331 Release two bosses

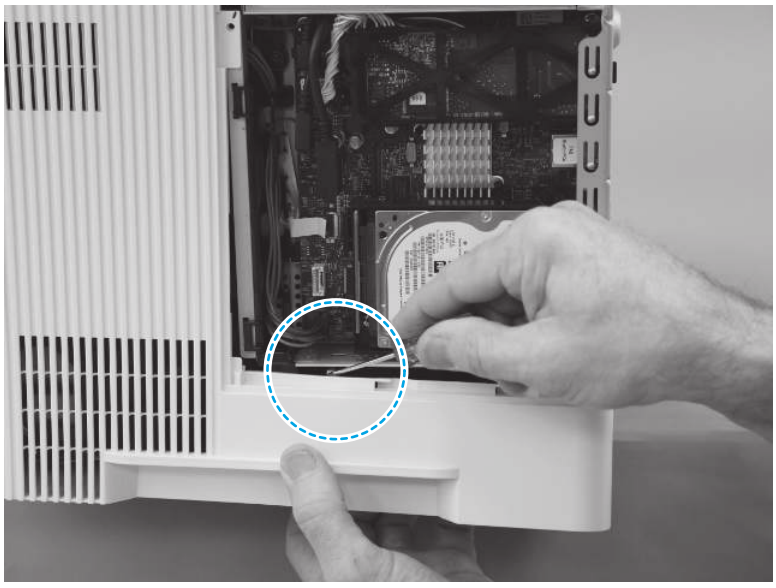


5. Near the formatter, release one tab.

CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

TIP: Hold the bottom of the cover away from the printer, and then use a small flat-blade screw driver to easily release this tab.

Figure 1-1332 Release one tab

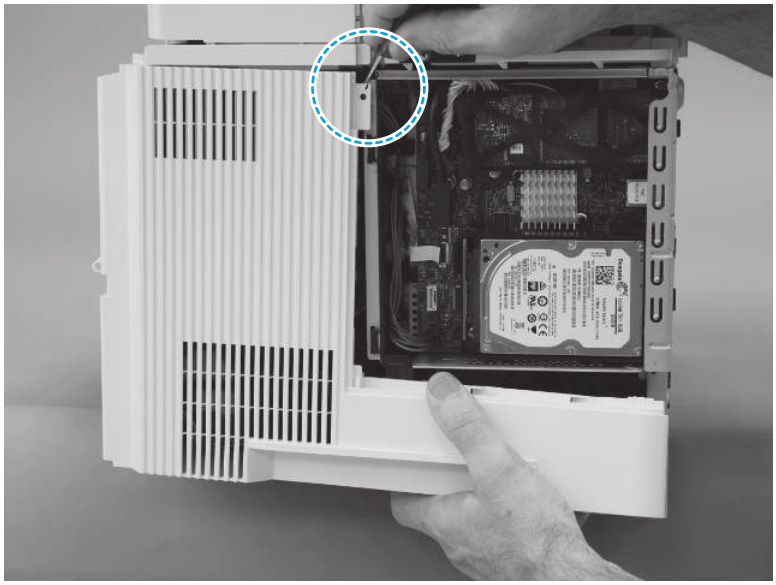


6. At the top rear edge of the cover, release one tab.

CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

TIP: Use a small flat-blade screw driver to easily release this tab.

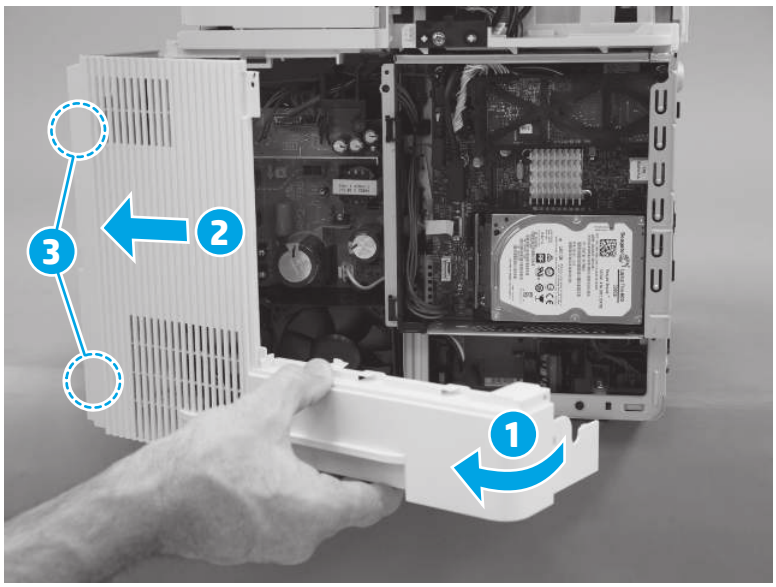
Figure 1-1333 Release one tab



7. Rotate the rear of the cover away from the printer (callout 1), slide the cover toward the front of the printer (callout 2) to release two bosses (callout 3), and then remove the cover.

CAUTION: It might be easier to remove the cover with the printer slightly hanging over the edge of the workspace. Do not let the printer tip and fall off of the workspace when removing the cover.

Figure 1-1334 Remove the cover



14. Remove the left cover

Follow these steps to remove the left cover.

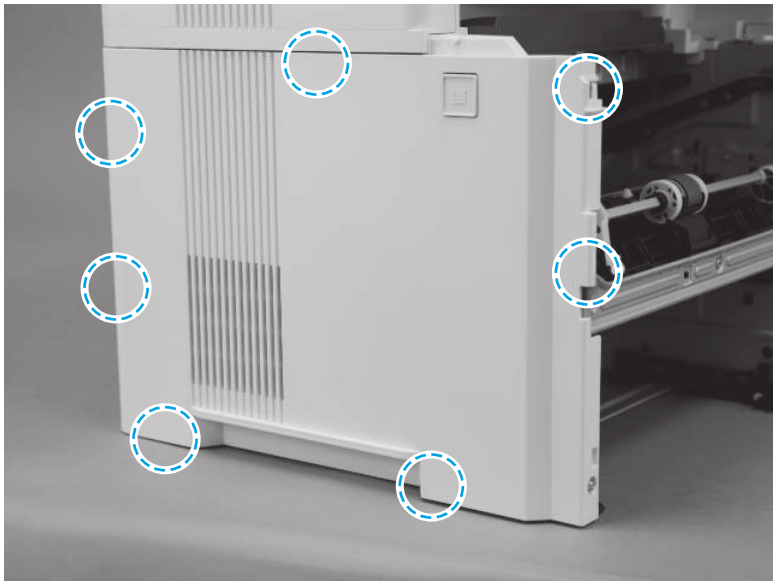
IMPORTANT: The black-plastic cassette front and rear guides (located inside the tray cavity) can be easily dislodged. Do not lose the guides when the cover is removed or installed.

NOTE: An MFP printer is shown in this section. However, the procedure is correct for all printer models.

1. Before proceeding, take note of the location of the tabs and bosses on the inside of the cover.

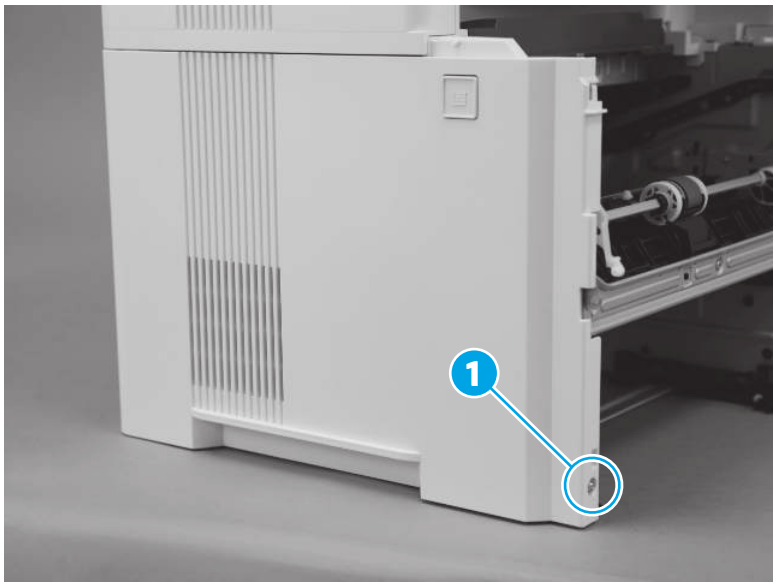
Reinstallation tip: When reinstalling the cover, take note of the location of the tabs and bosses on the inside of the cover.

Figure 1-1335 Locate of the tabs and bosses



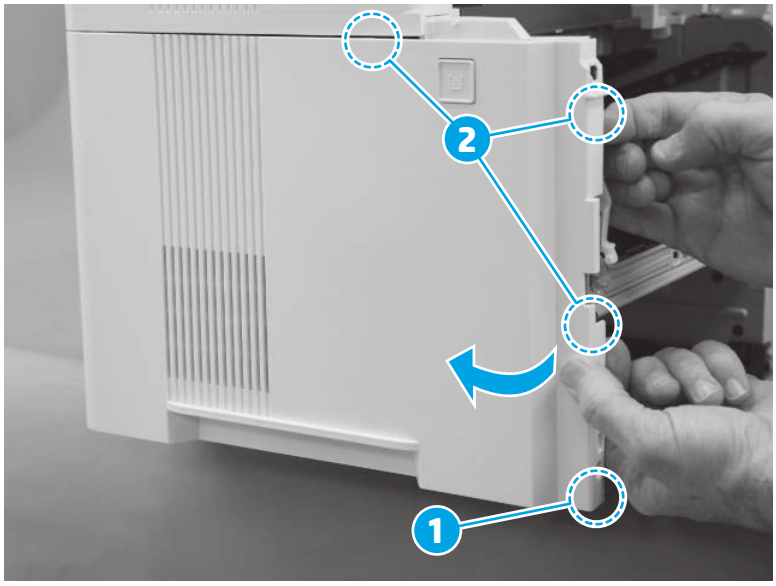
2. Remove one screw (callout 1).

Figure 1-1336 Remove one screw



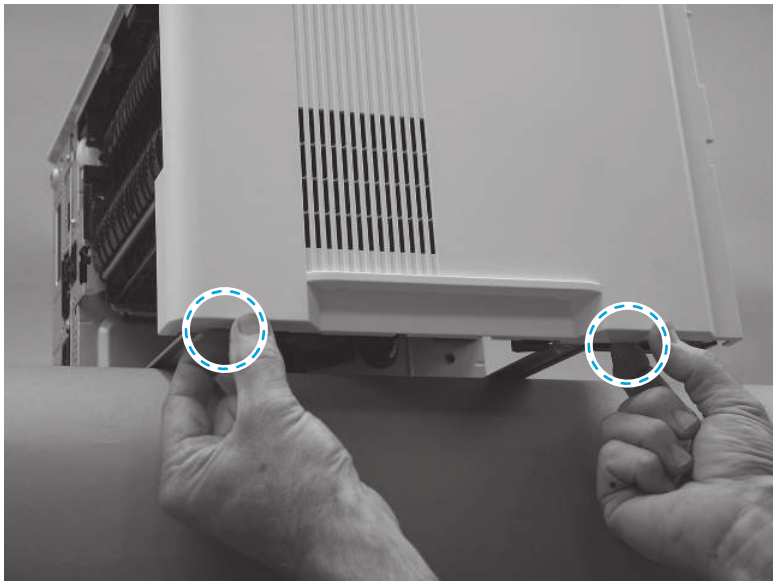
3. At the front of the printer, release one boss (callout 1), and then rotate the front edge of the cover away from the printer to release three tabs (callout 2).

Figure 1-1337 Release one boss and three tabs



4. At the bottom edge of the cover, release two tabs.

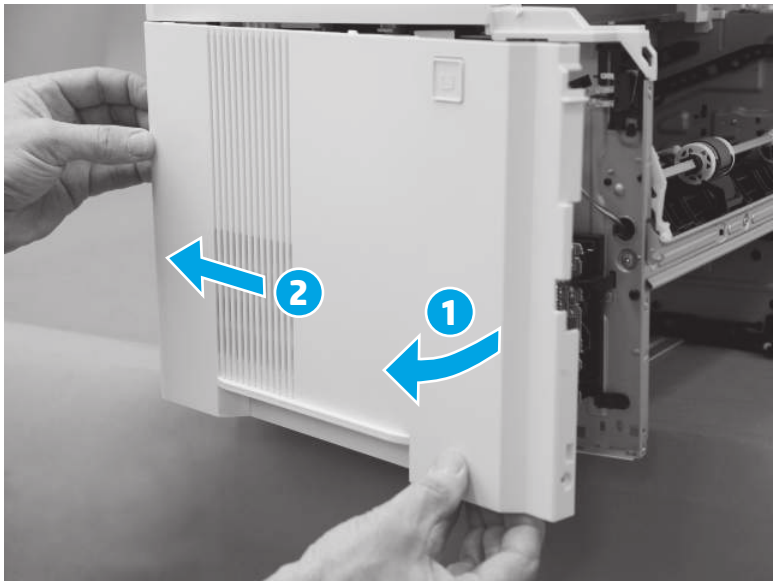
Figure 1-1338 Release two tabs



5. Continue to rotate the front edge of the cover away from the printer (callout 1), and then slide the cover toward the rear of the printer (callout 2) to remove it.

NOTE: If the cover is difficult to rotate or slide as shown below, make sure that the bottom tabs (released in the previous step) are completely disengaged from the chassis.

Figure 1-1339 Remove the cover



15. Remove the integrated-scanner assembly (ISA) (M527/E52545/M528/E52645)

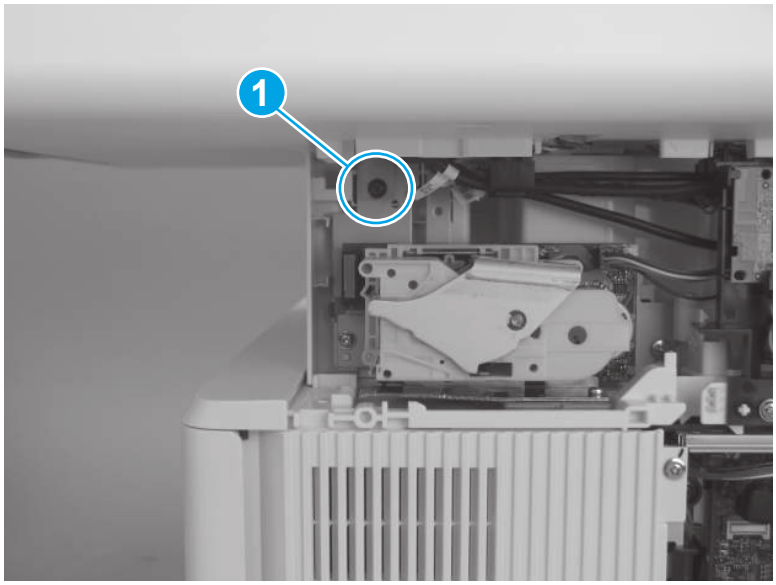
Follow these steps to remove the integrated-scanner assembly (ISA) (M527/E52545/M528/E52645).

NOTE: The ISA includes the document feeder, sub-scanner assembly (SSA), and the scanner control board (SCB).

1. Remove one screw (callout 1).

IMPORTANT: This screw fastens the ISA ground plate to the printer chassis. Do not lose this screw.

Figure 1-1340 Remove one screw

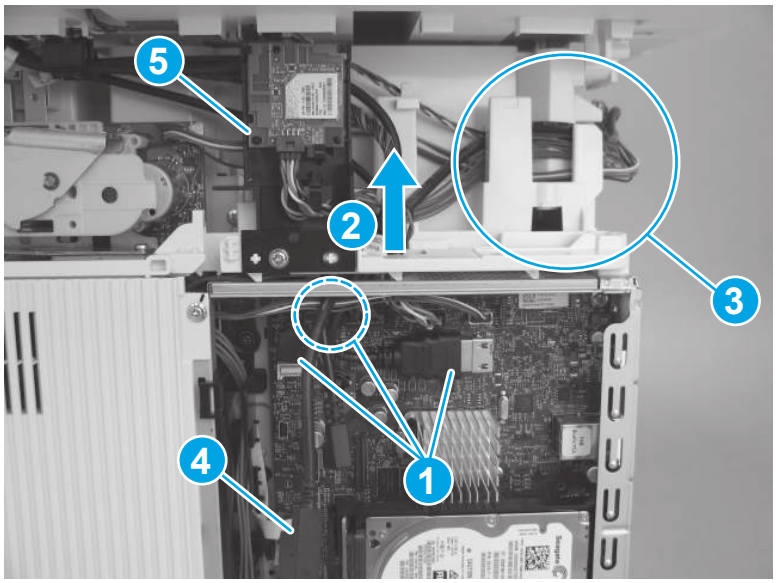


2. Disconnect three connectors (callout 1), pass the wire harnesses and cables through the opening in the cover (callout 2), and then release them from the retainers (callout 3).

NOTE: One cable (callout 4) does not need to pass through the opening in the cover.

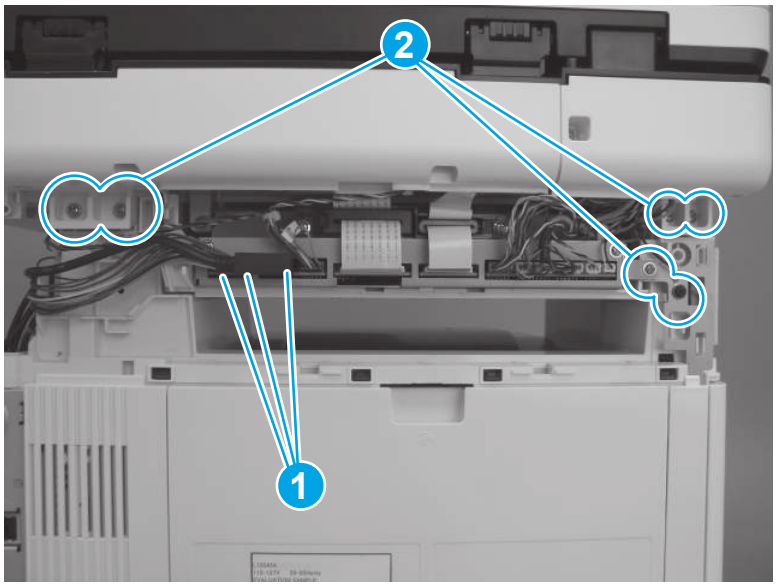
TIP: It might be easier if the WiFi PCA and holder (not all models; callout 5) is detached from the printer, and then moved out of the way.

Figure 1-1341 Disconnect cables and connectors



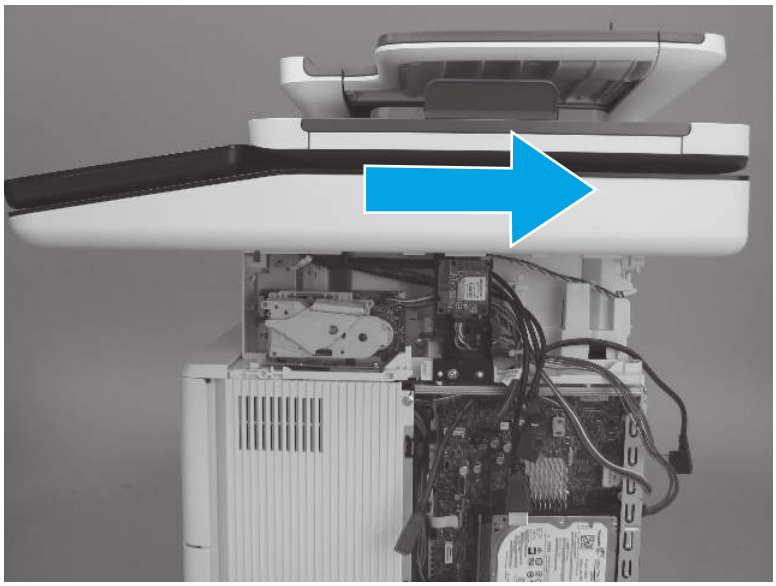
3. Disconnect three connectors (callout 1), and then remove six screws (callout 2).

Figure 1-1342 Disconnect connectors and remove screws



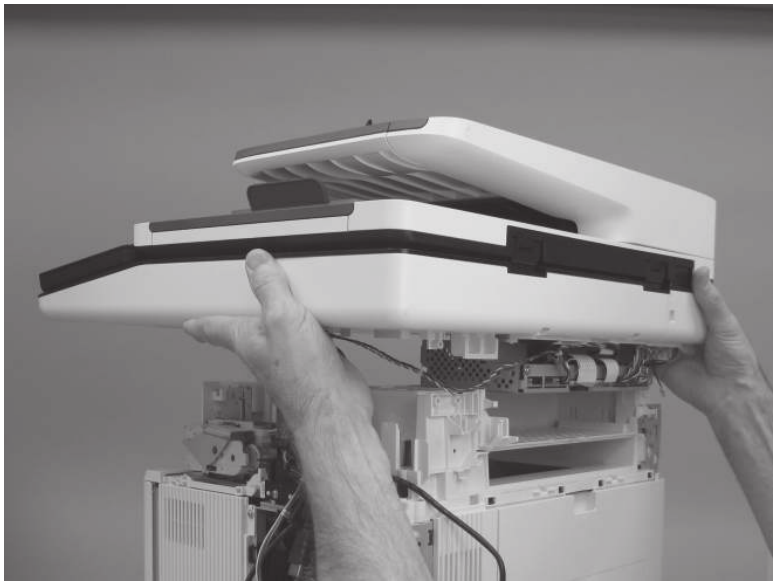
4. Slightly slide the ISA towards the back of the printer to release it.

Figure 1-1343 Slide the ISA towards the back of the printer



5. Remove the ISA.

Figure 1-1344 Remove the ISA

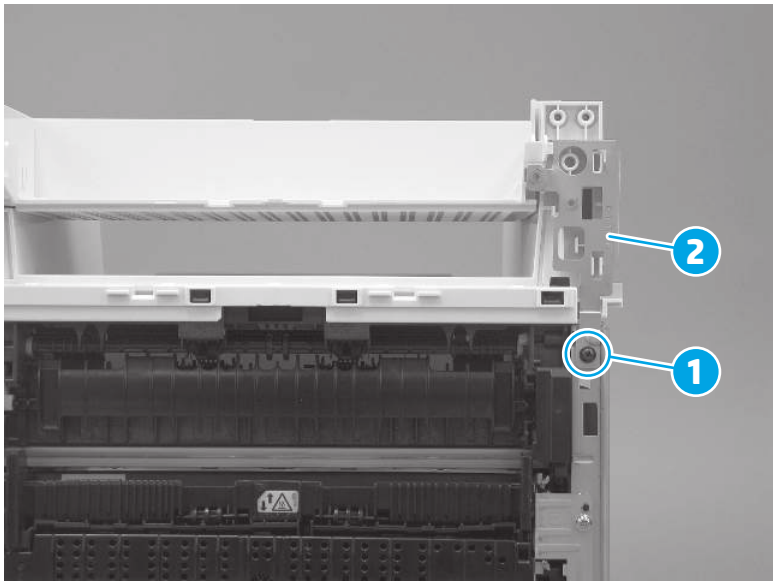


16. Remove the top cover (M527/E52545/M528/E52645)

Follow these steps to remove the top cover (M527/E52545/M528/E52645).

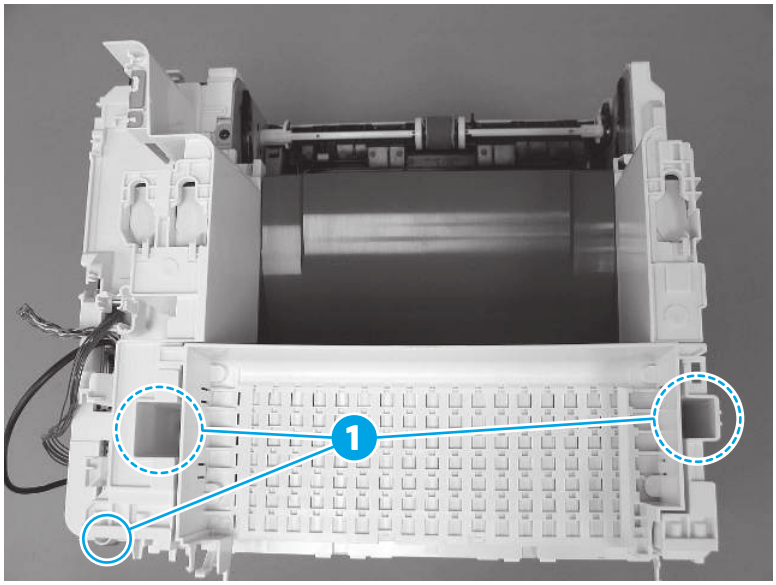
1. At the front right of the printer, remove one screw (callout 1), and then remove the sheet-metal plate (callout 2).

Figure 1-1345 Remove one screw and the plate



2. At the top rear of the printer, remove three screws (callout 1).

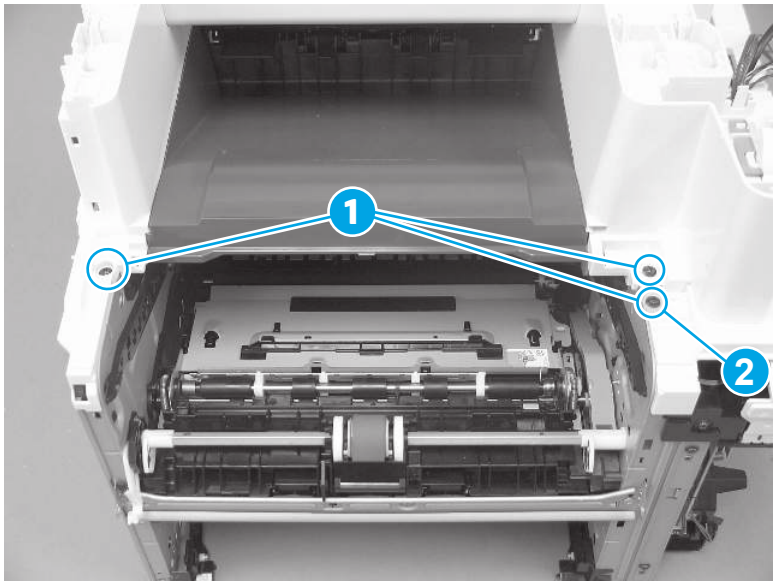
Figure 1-1346 Remove three screws



3. At the top front of the printer, remove three screws (callout 1).

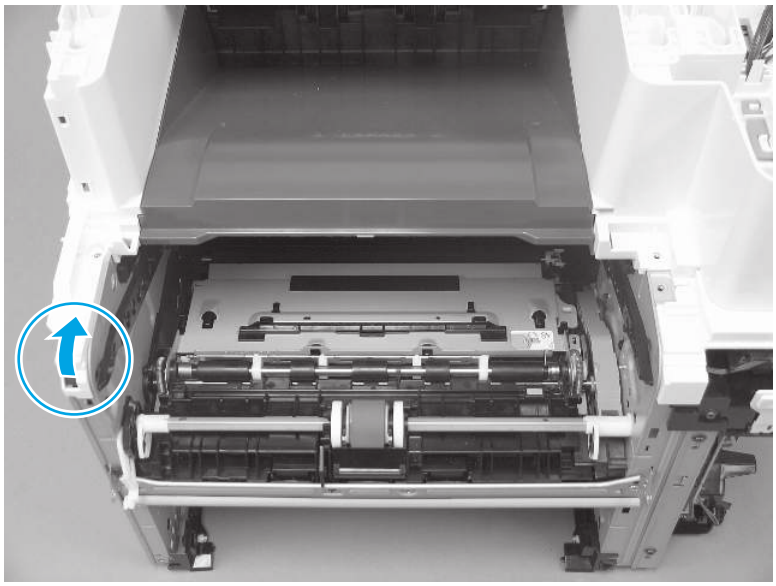
NOTE: The screw (callout 2) on the lower-right portion of the cover is a different color than the other two screws, and is surrounded by sheet-metal. It might appear that this screw does not need to be removed. Remove this screw.

Figure 1-1347 Remove three screws



4. At the front left of the printer, release one boss.

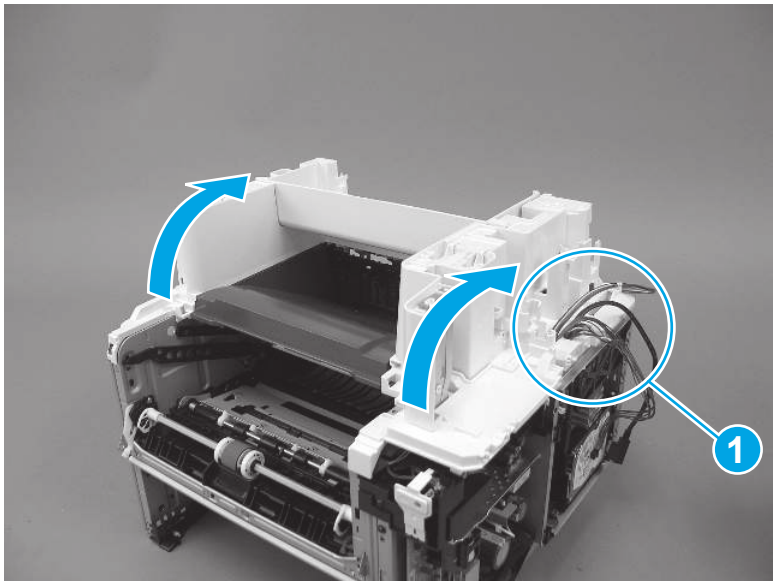
Figure 1-1348 Release one boss



5. Rotate the front of the cover up and away from the printer.

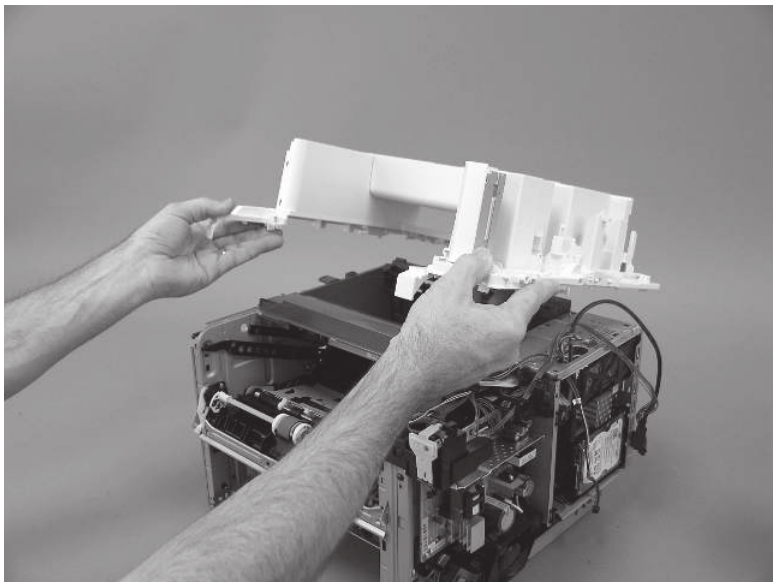
⚠ CAUTION: As the cover is rotated up, carefully pass the cables and wire harnesses the hole in the cover (callout 1).

Figure 1-1349 Rotate the front of the cover up



6. Remove the cover.

Figure 1-1350 Remove the cover



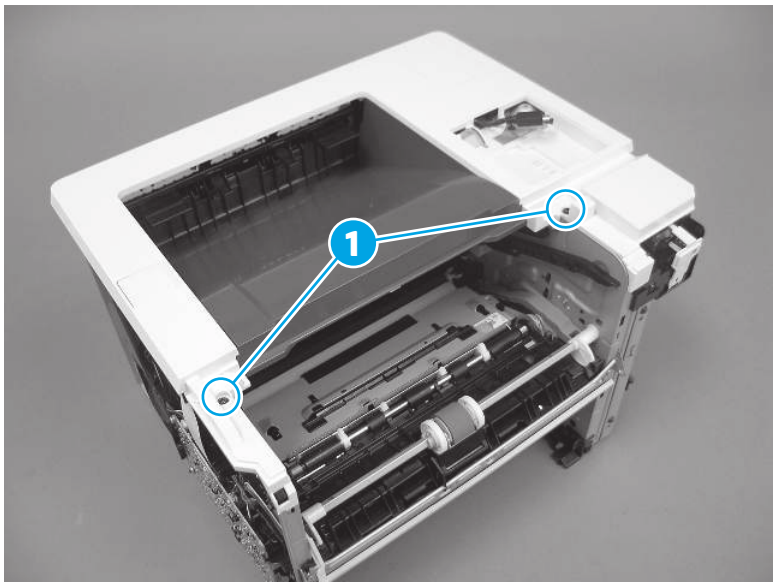
17. Remove the top cover (M501/M506/E50045/M507/E50145)

Follow these steps to remove the top cover (M501/M506/E50045/M507/E50145).

The M506x/E50045x is shown in this procedure. However, the steps are correct for all M506/E50045/M507/E50145 models and the M501 printer.

1. Remove two screws (callout 1).

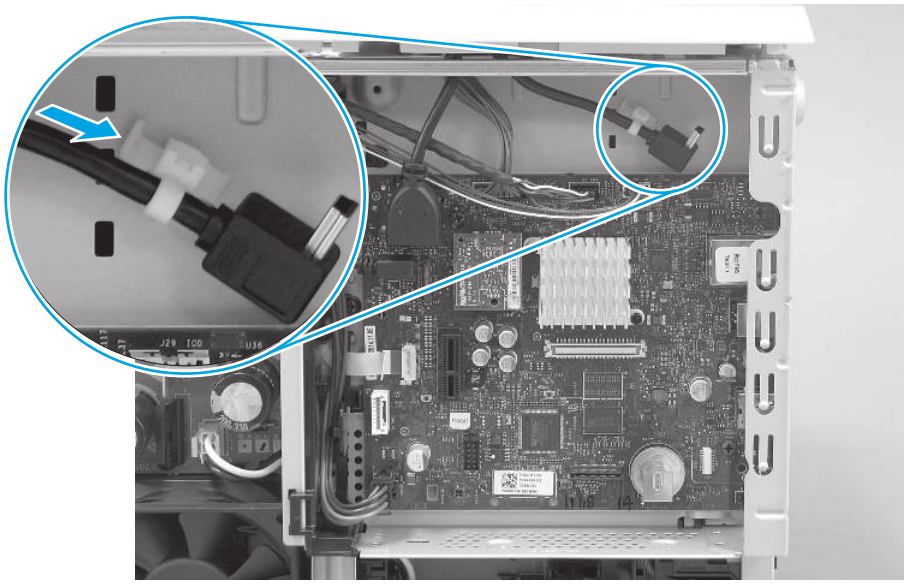
Figure 1-1351 Remove two screws



2. **M506/E50045/ only**: Release one cable retainer from the chassis.

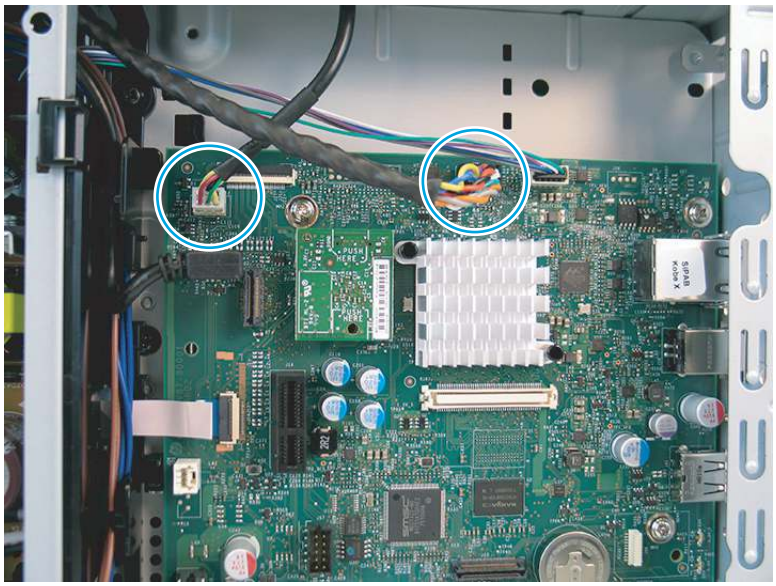
TIP: Depress the tab on the retainer to release it.

Figure 1-1352 Release one cable retainer



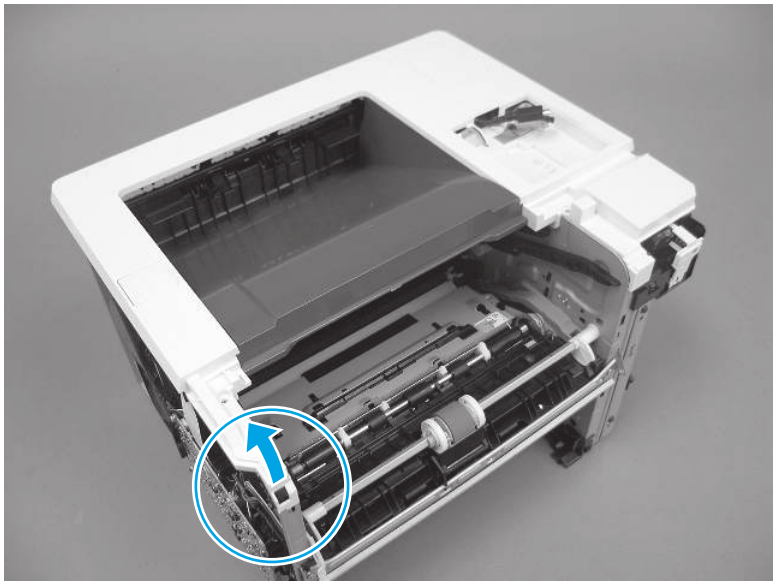
3. **M507/E50145 only**: Disconnect two connectors.

Figure 1-1353 Disconnect two connectors



4. Release one boss.

Figure 1-1354 Release one boss

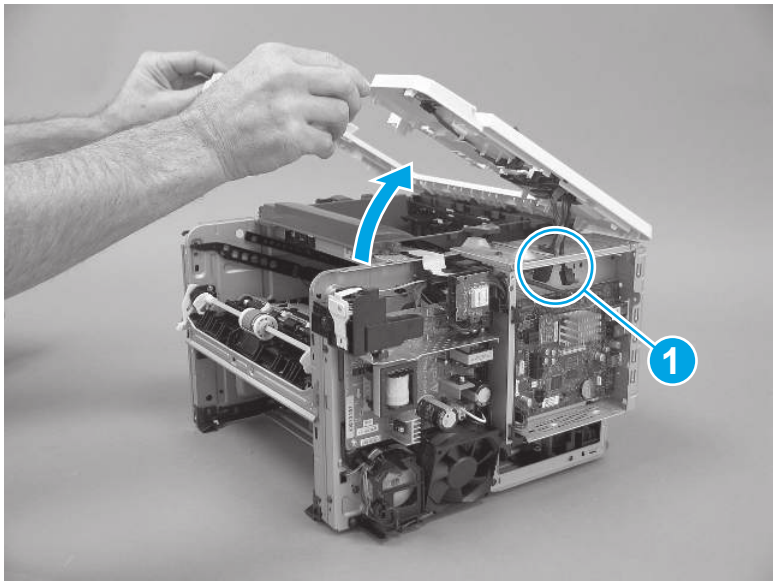


5. **M506/E50045/ only**: Rotate the front of the cover up and away from the printer, and then remove the cover.

CAUTION: **M506x/E50045x only**: As the cover is rotated up, carefully pass the cables the hole in the chassis (callout 1).

NOTE: **LCD control panel models only**: Disconnect the control panel before removing the cover.

Figure 1-1355 Remove the cover (M506/E50045)



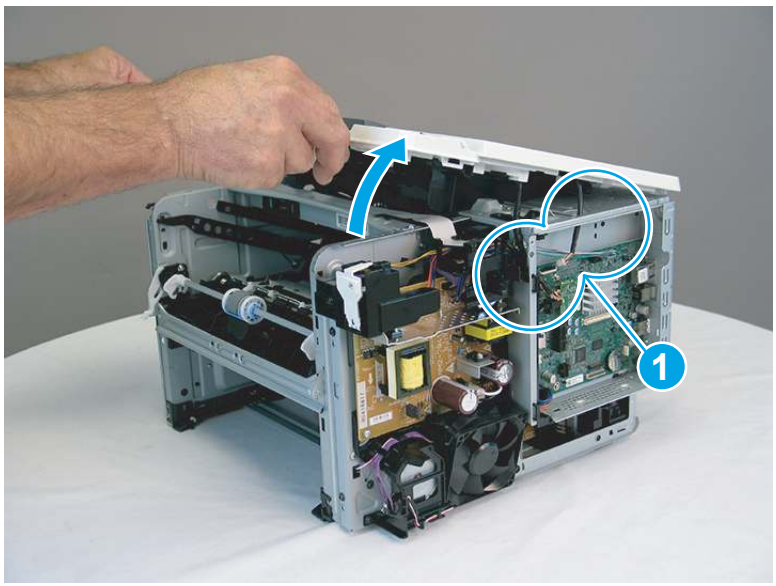
6. M507/E50145only: Rotate the front of the cover up and away from the printer, and then remove the cover.

CAUTION: M507x/E50145x only: As the cover is rotated up, carefully pass the cables the hole in the chassis (callout 1).

IMPORTANT: If the top cover is being replaced, make sure to transfer the WiFi PCA from the discarded cover to the replacement cover.

NOTE: LCD control panel models only: Disconnect the control panel before removing the cover.

Figure 1-1356 Remove the cover (M507/E50145)



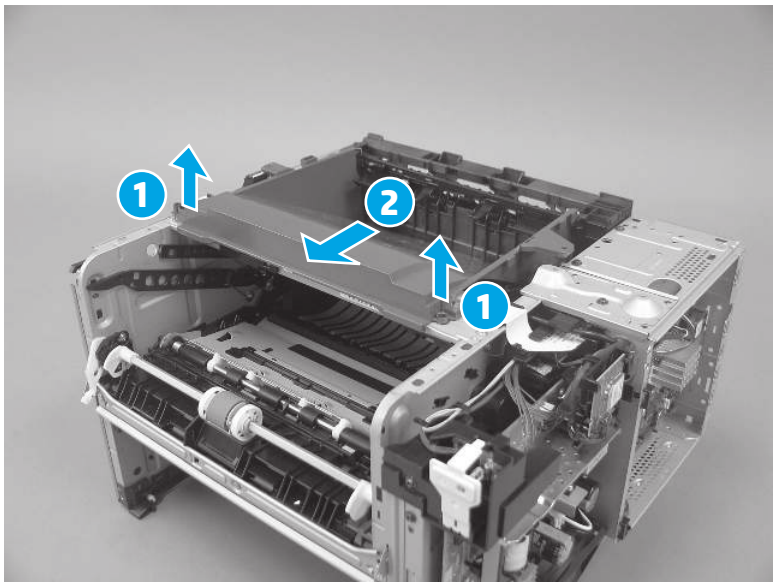
18. Remove the paper delivery tray (output bin)

Follow these steps to remove the paper delivery tray (output bin).

NOTE: A SFP printer is shown in this section. However, the procedure is correct for all printer models.

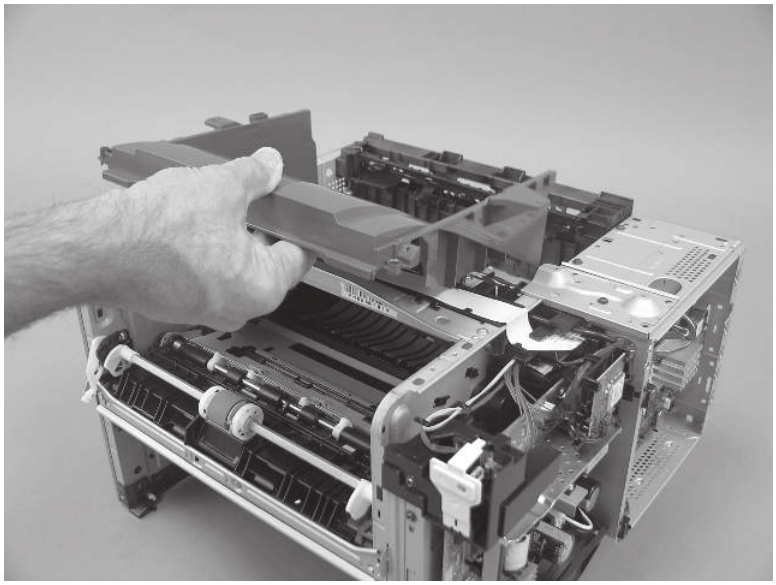
1. Release two tabs (callout 1), and then slide the cover toward the front of the printer (callout 2).

Figure 1-1357 Release two tabs



2. Remove the bin.

Figure 1-1358 Remove he bin



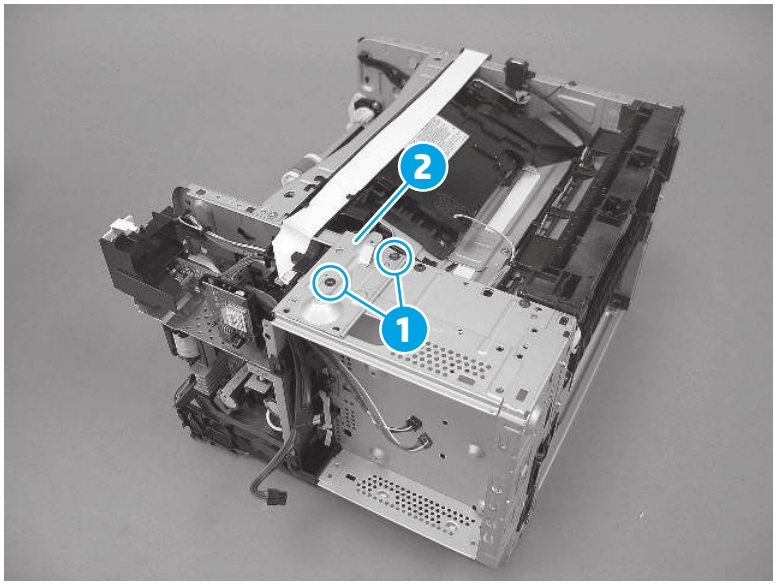
19. Remove the formatter case

Follow these steps to remove the formatter case.

1. **M506/E50045/M507/E50145 only**: Remove two screws (callout 1), and then remove the sheet-metal plate (callout 2).

NOTE: **M507/E50145 only**: The M507/E50145 sheet-metal plate includes a separate black plastic cable guide (not shown). Do not lose the guide when removing the plate.

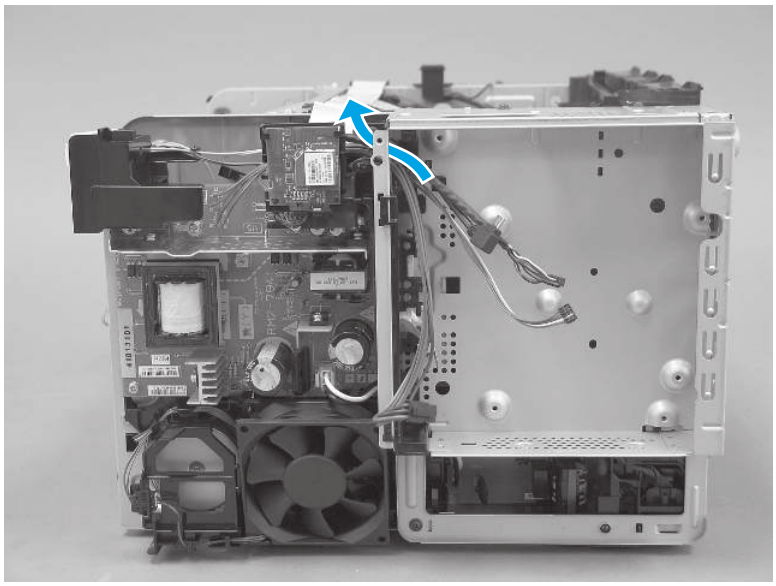
Figure 1-1359 Remove the sheet-metal plate



2. Carefully pass all cables and wire harnesses through the opening in the formatter case.

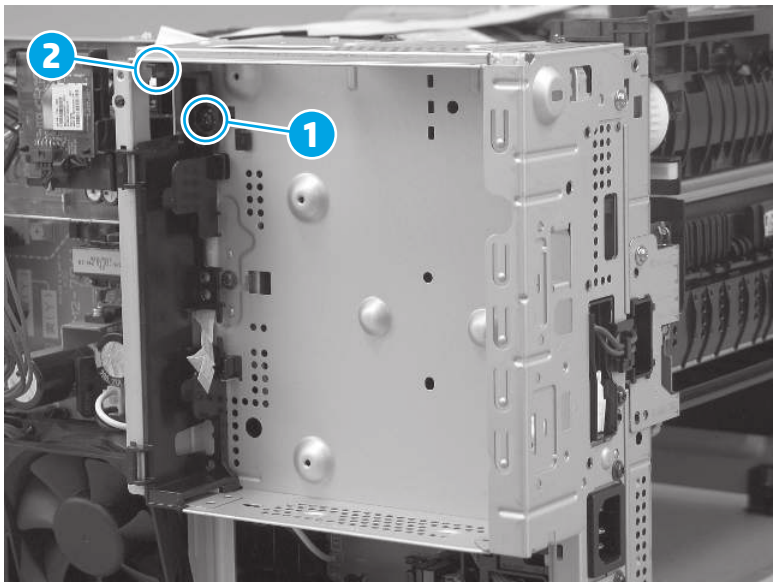
NOTE: A SFP printer is shown in this section. However, the procedure is correct for all printer models.

Figure 1-1360 Pass all cables and wire harnesses through the opening



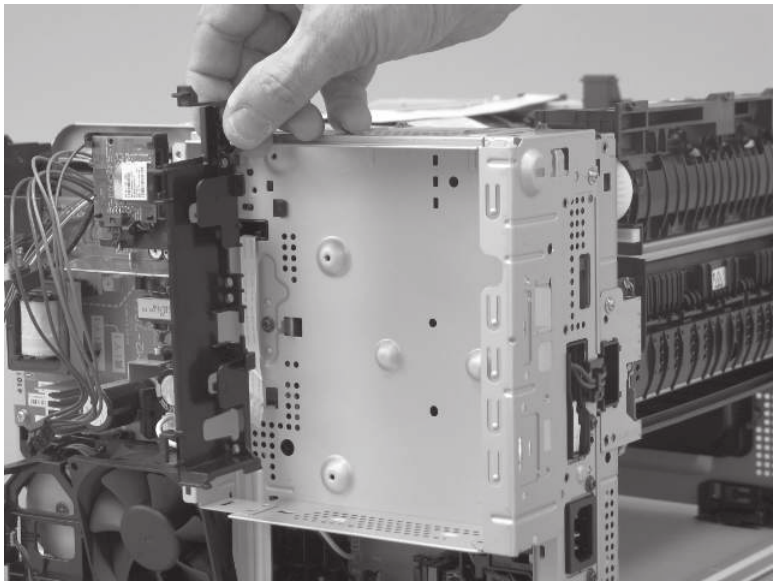
3. Remove one screw (callout 1), and then push down on one tab (callout 2) to release it.

Figure 1-1361 Remove one screw



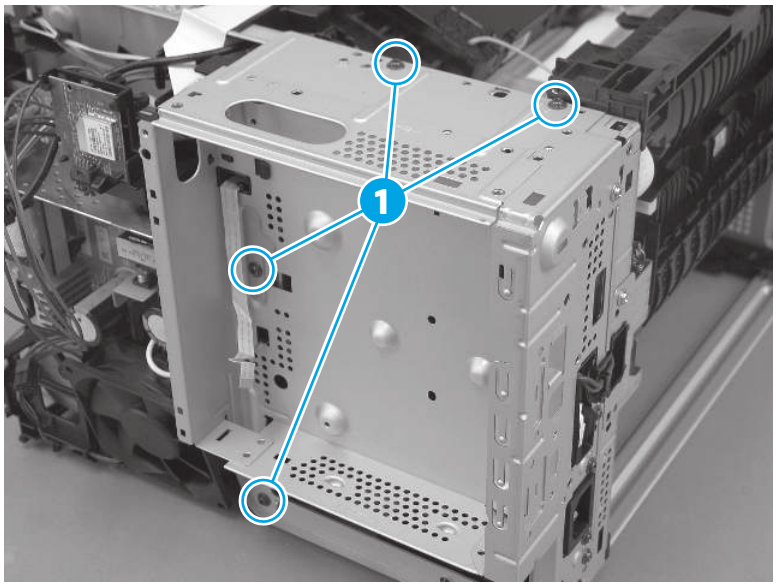
4. Remove the guide.

Figure 1-1362 Remove the guide



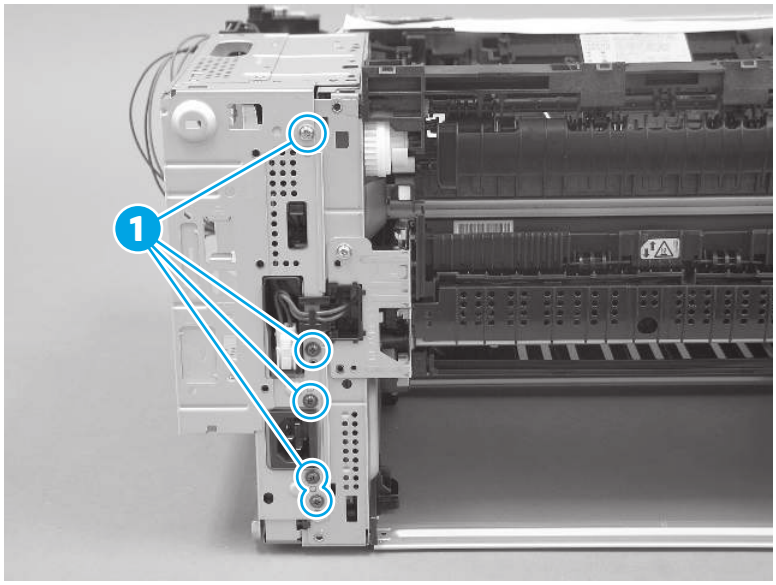
5. Remove four screws (callout 1).

Figure 1-1363 Remove four screws



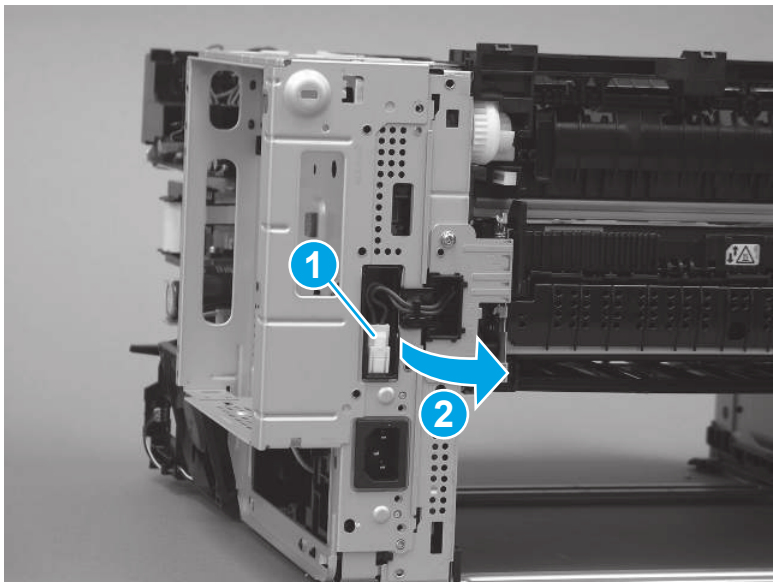
6. Remove five screws (callout 1).

Figure 1-1364 Remove five screws



7. Disconnect one connector (callout 1), and then move the guide out of the way (callout 2).

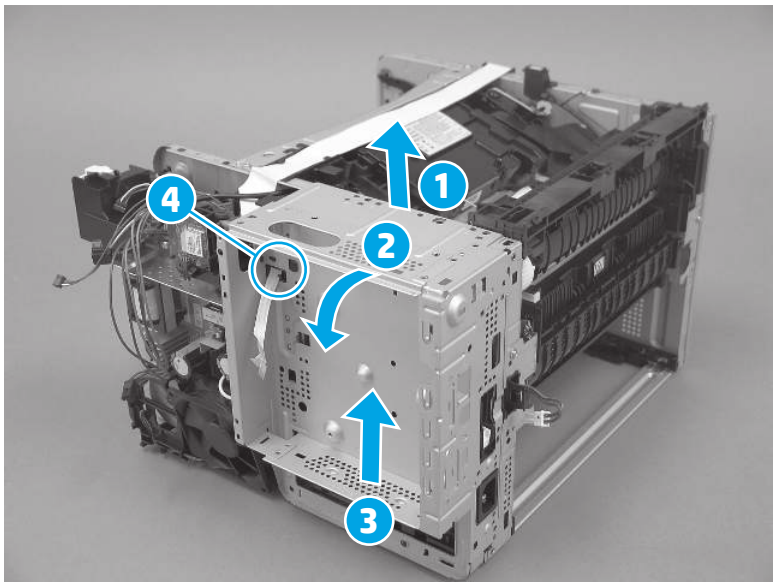
Figure 1-1365 Disconnect one connector



8. Slightly lift up the formatter case (callout 1), rotate the top of the case away from the chassis (callout 2), and then lift up the case to release it (callout 3).

⚠ CAUTION: Pass the FFC through the opening (callout 4) in the formatter while removing the case.

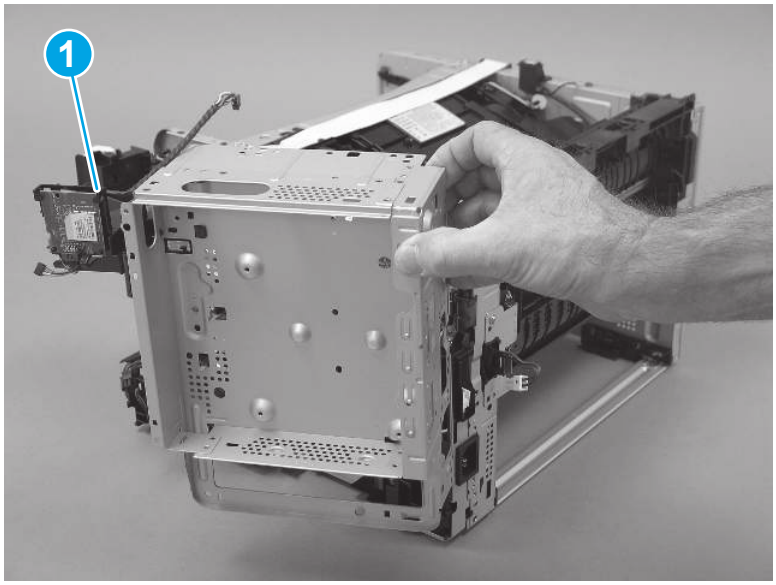
Figure 1-1366 Release the formatter case



9. Remove the formatter case.

NOTE: **WiFi models only**: If the formatter case is being replaced, make sure that the WiFi PCA and bracket (callout 1) are transferred to the replacement case.

Figure 1-1367 Remove the formatter case

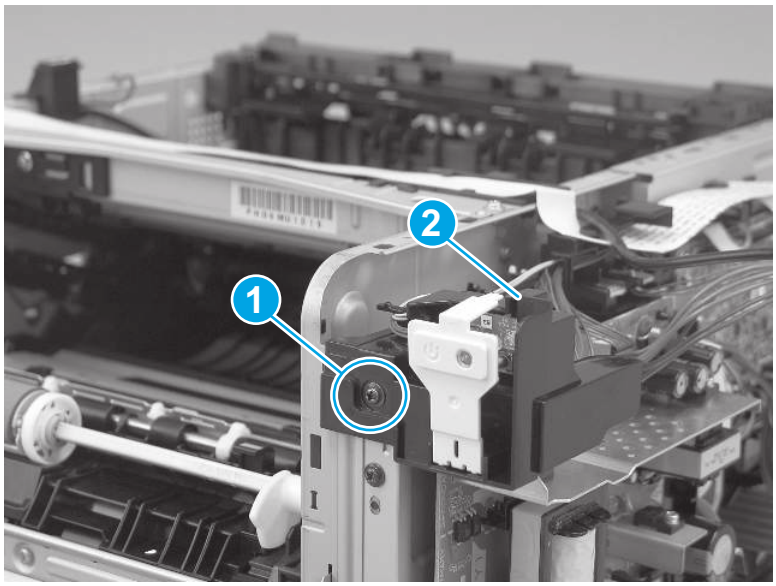


20. Remove the LVPS

Follow these steps to remove the LVPS.

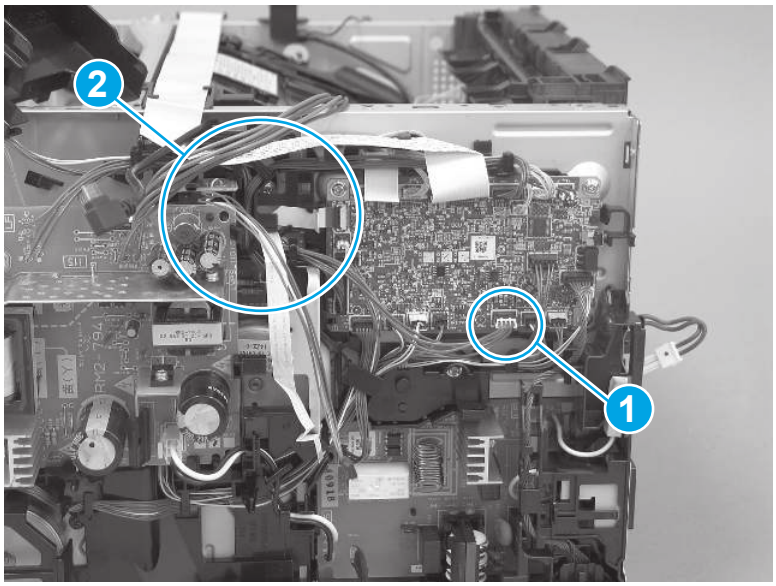
1. Remove one screw (callout 1), and then move the power-switch assembly (callout 2) out of the way.

Figure 1-1368 Move the power-switch assembly



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

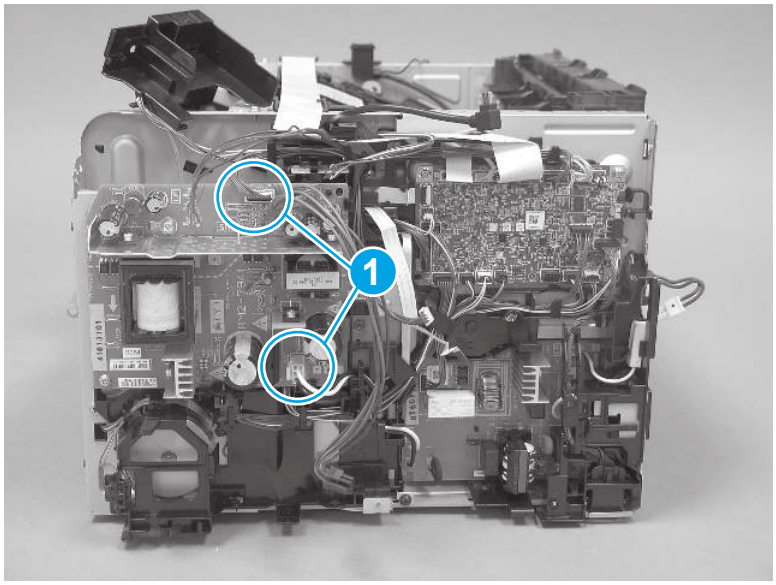
Figure 1-1369 Disconnect one connector



3. Disconnect two connectors (callout 1).

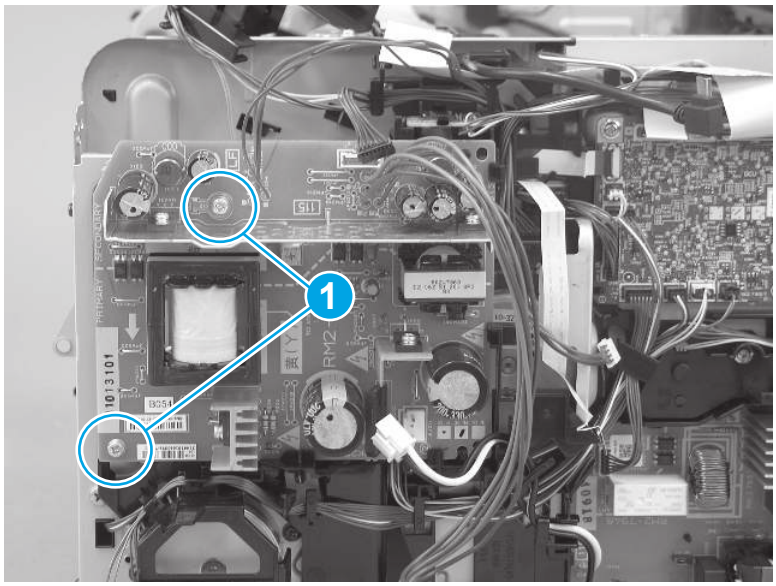
TIP: Squeeze the locking lever on the lower connector to release it.

Figure 1-1370 Disconnect two connectors



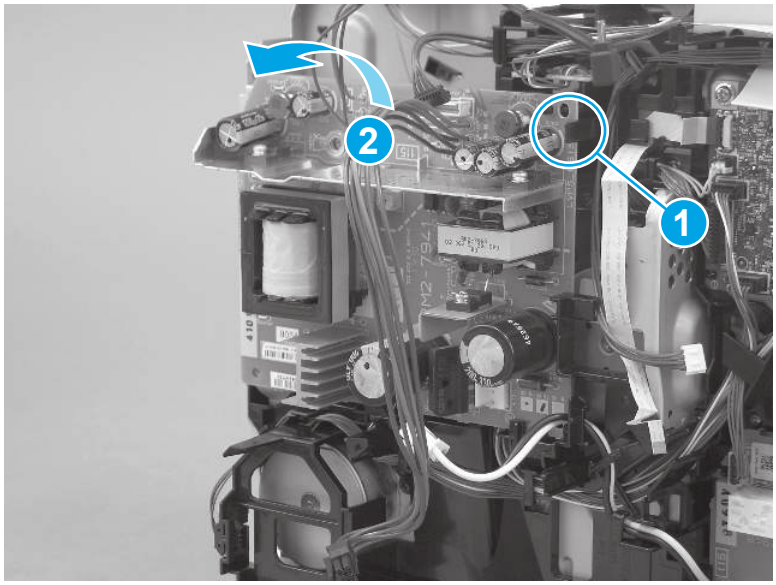
4. Remove two screws (callout 1).

Figure 1-1371 Remove two screws



5. Release one tab (callout 1), and then rotate the top of the LVPS out and away from the printer (callout 2).

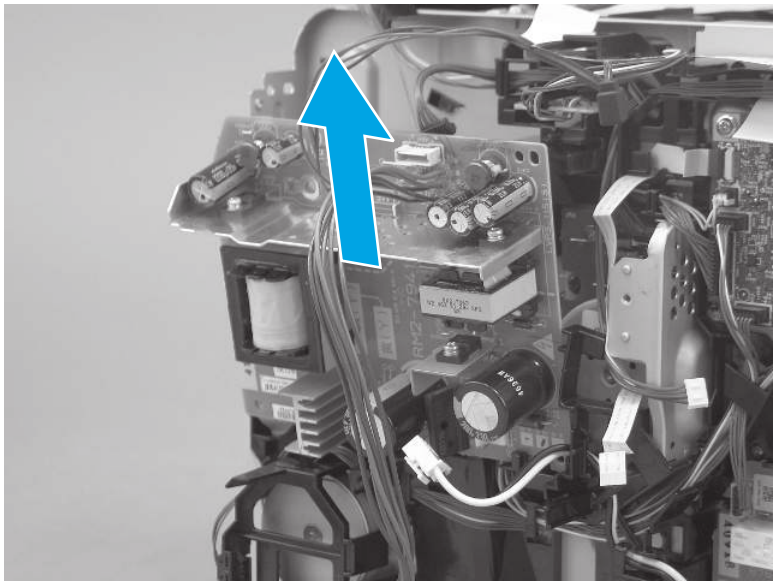
Figure 1-1372 Release one tab



6. Slide the LVPS up and away from the printer to release it.

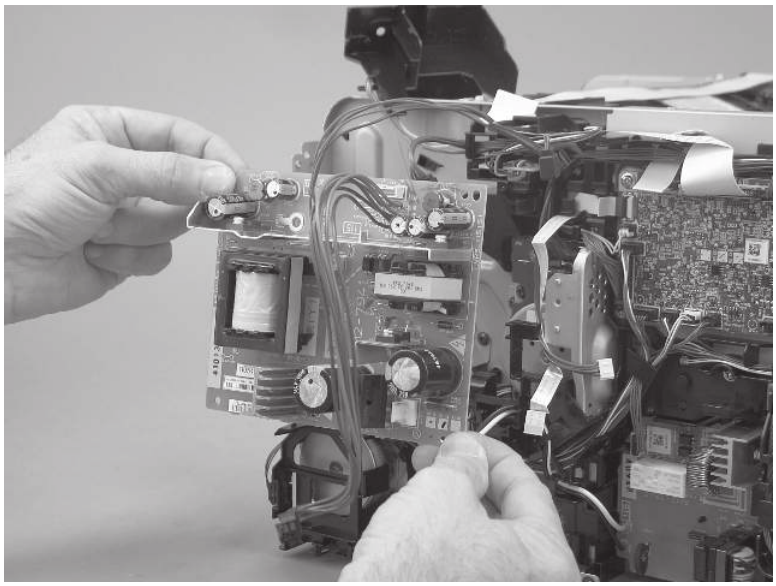
Reinstallation tip: Push down on the LVPS to make sure that it is fully seated on the holder.

Figure 1-1373 Release the LVPS



7. Remove the LVPS.

Figure 1-1374 Remove the LVPS

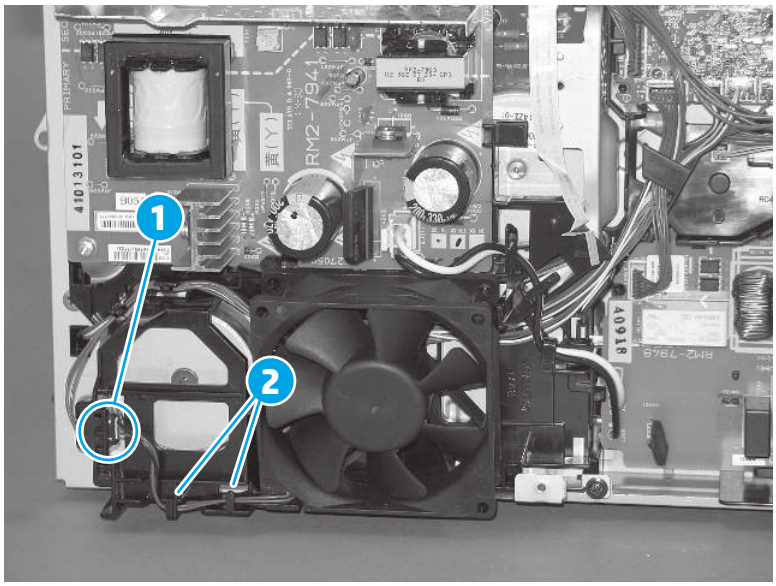


21. Remove the fan (FM2)

Follow these steps to remove the fan (FM2).

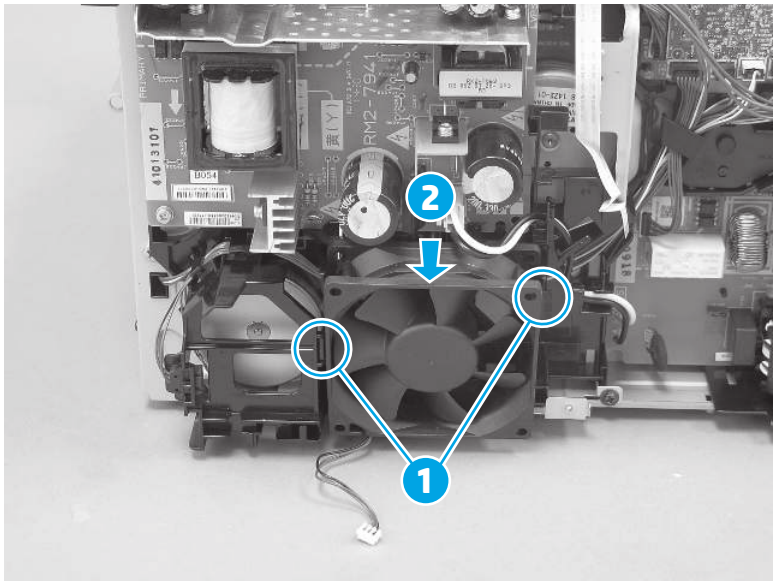
1. Disconnect one connector (callout 1), and then release the wire harness from the retainer (callout 2).

Figure 1-1375 Disconnect one connector



2. Release two tabs (callout 1), and then rotate the top of the fan out and away from the printer (callout 2).

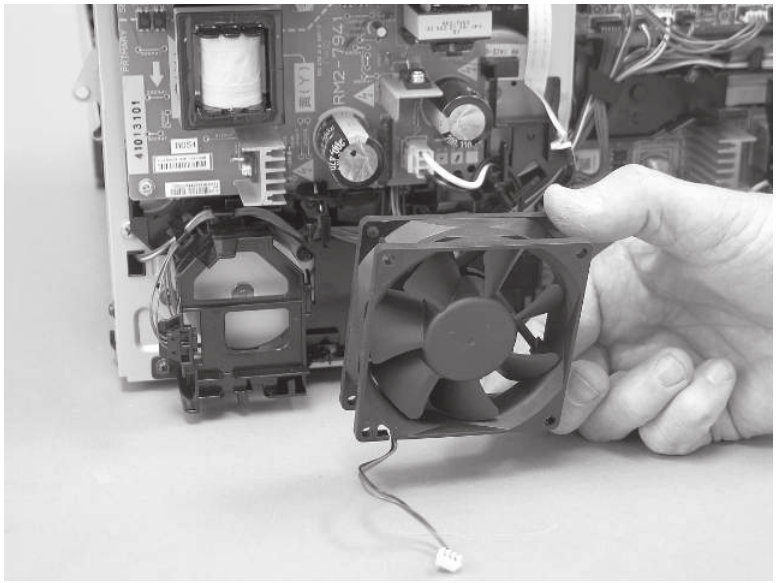
Figure 1-1376 Release two tabs



3. Remove the fan.

⚠ CAUTION: When reinstalled the fan must draw air into the printer. Make sure that the two arrows embossed on the right side of the fan body face downward and into the printer.

Figure 1-1377 Remove the fan



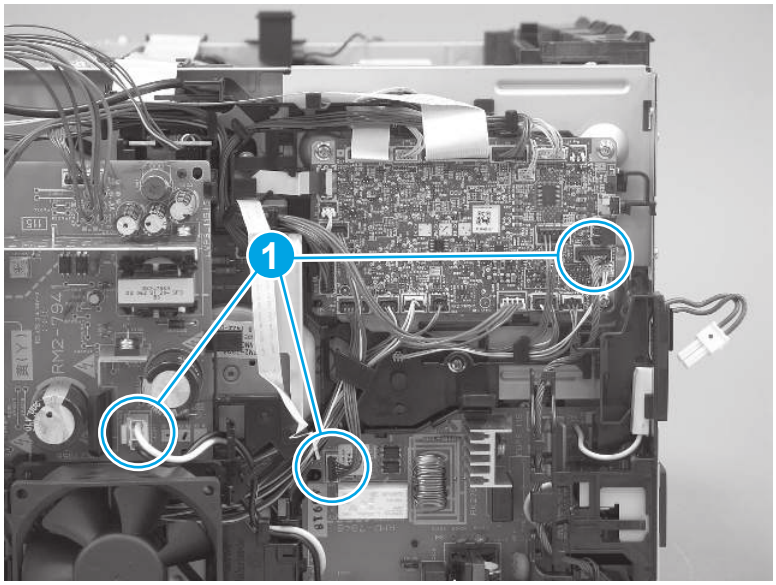
22. Remove the fuser power supply (FPS)

Follow these steps to remove the fuser power supply (FPS).

TIP: The FPS includes the optional paper feeder connector (Jetlink accessory tray connector) .

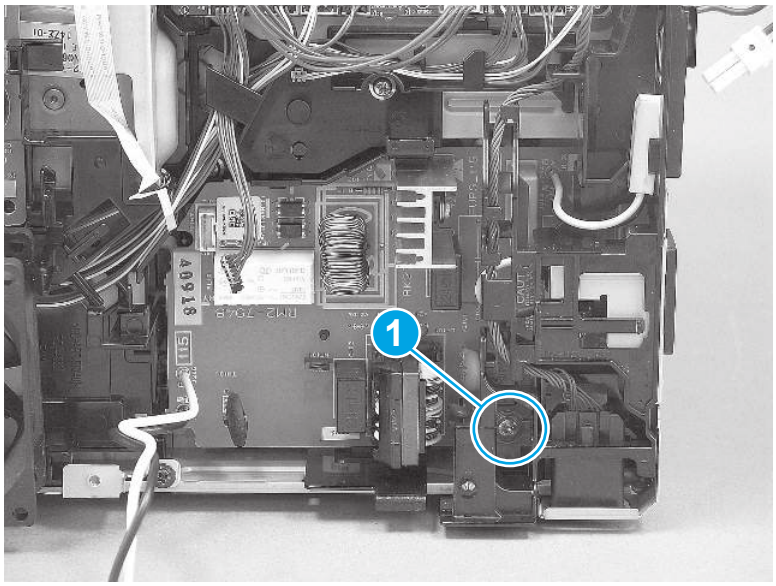
1. Disconnect three connectors (callout 1).

Figure 1-1378 Disconnect three connectors

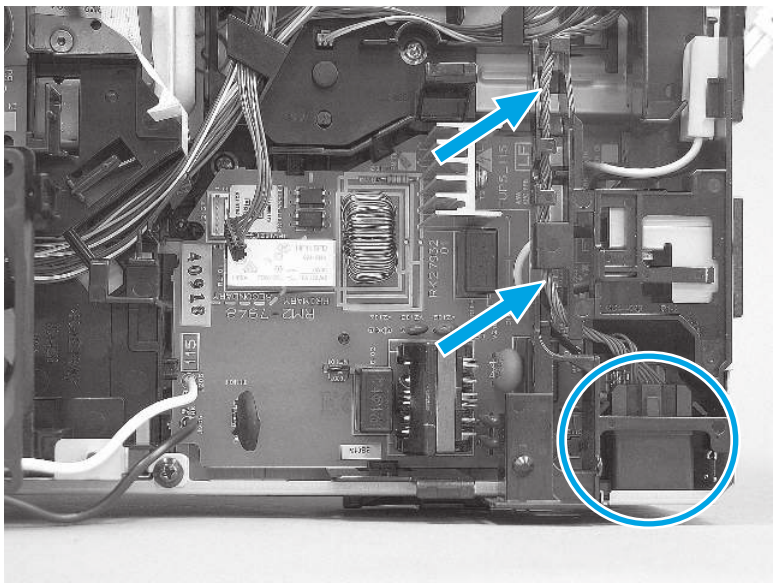


2. Remove one screw (callout 1).

Figure 1-1379 Remove one screw



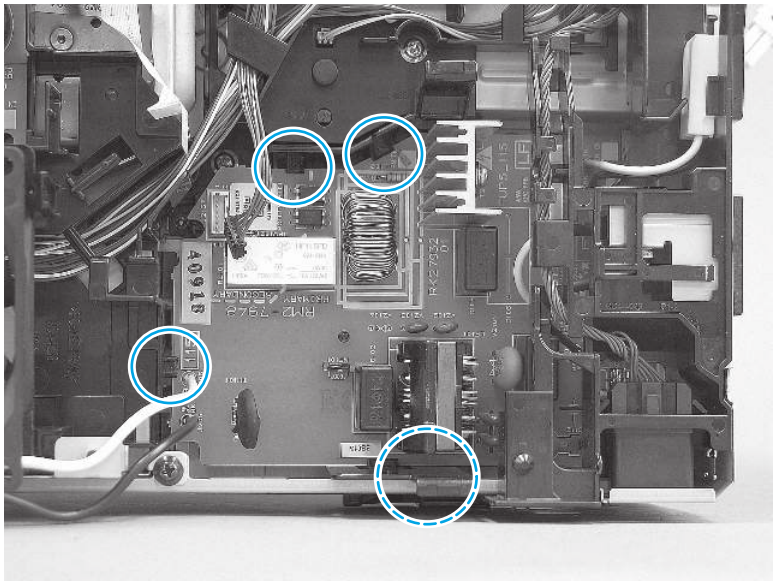
3. Disconnect the tray accessory connector (circle callout) and release the wire harness from the guide.



4. Release four tabs.

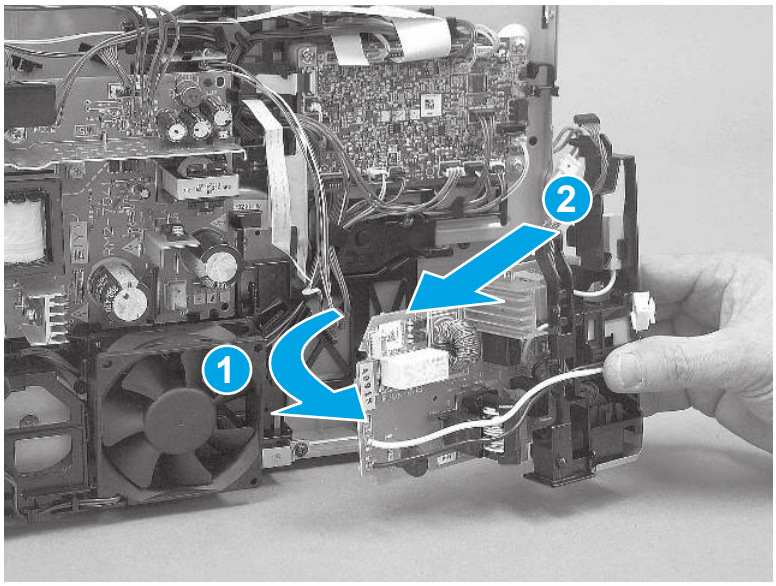
TIP: It might be easier to release the upper two tabs by using a small flat-blade screw driver.

Figure 1-1380 Release four tabs



5. Rotate the left end of the assembly out and away from the printer (callout 1), slide the assembly to the left to release the right side alignment pins (callout 2), and then remove the assembly.

Figure 1-1381 Remove the assembly



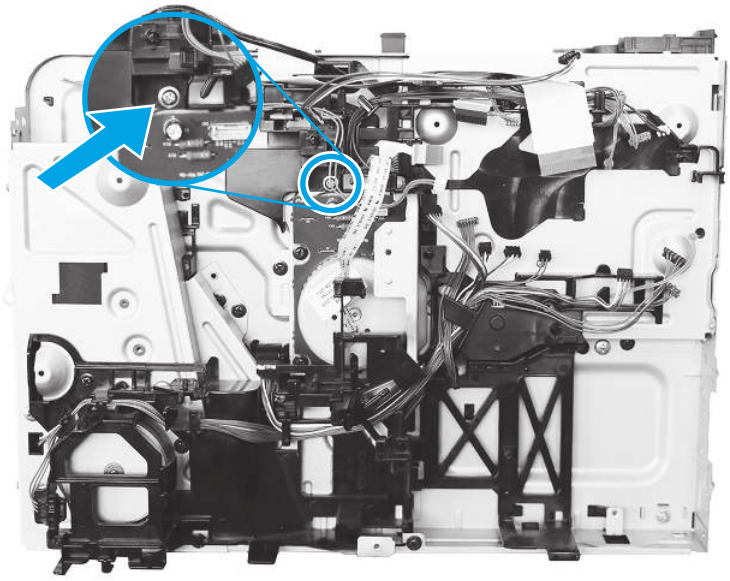
23. Remove internal cable and holder brackets

Follow these steps to remove internal cable and holder brackets.

IMPORTANT: It is recommended to bring the printer back to the shop to perform the following removal and replacement repairs.

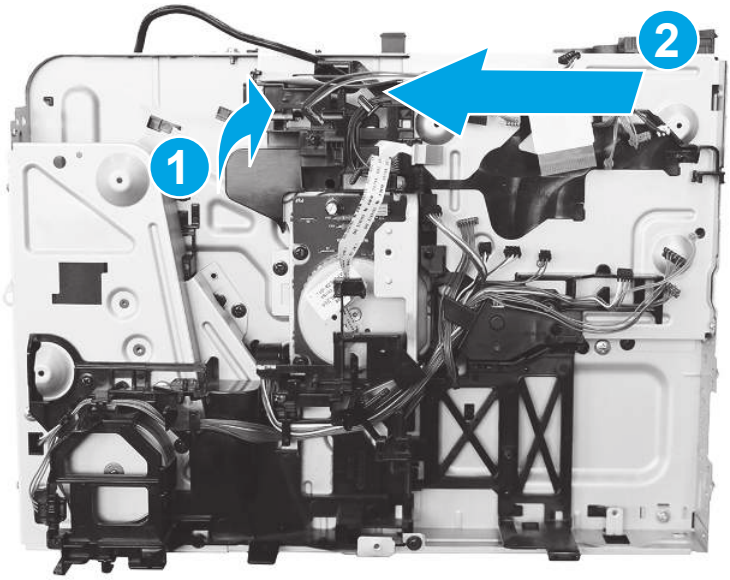
NOTE: Lay the engine on its left side to make removal or the following parts easier.

1. Remove one (1) screw from the upper cable bracket.

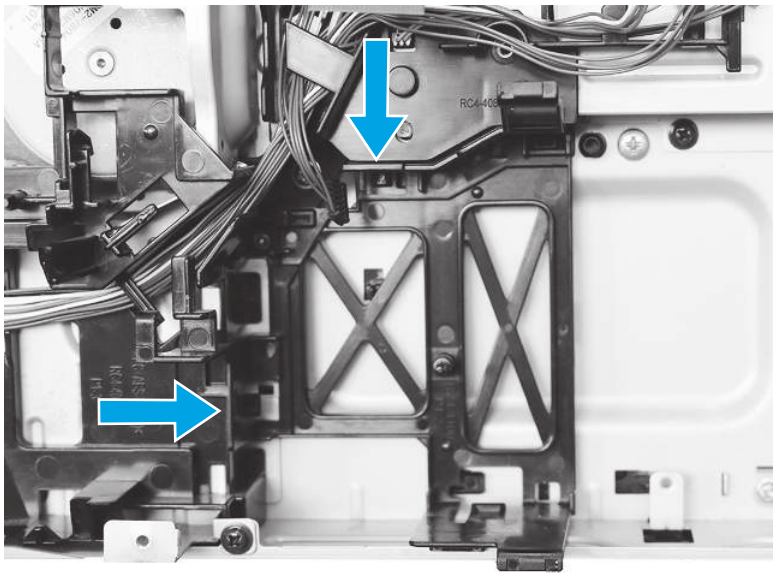


NOTE: The upper cable bracket assembly does not need to be completely removed, simply detached and then moved up out of the way and placed on the top of the printer.

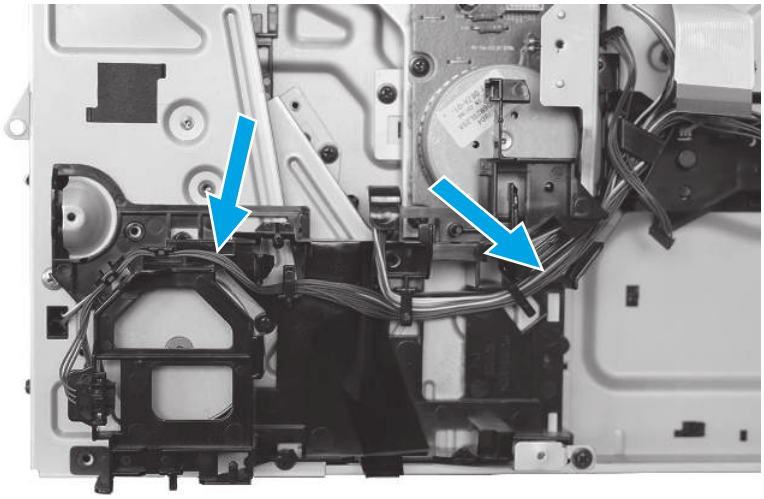
2. Remove the cable routing from the upper cable bracket.
3. Lift up on the left side of the cable bracket (callout 1) and slide the bracket towards the front of the printer (callout 2) to remove the bracket.



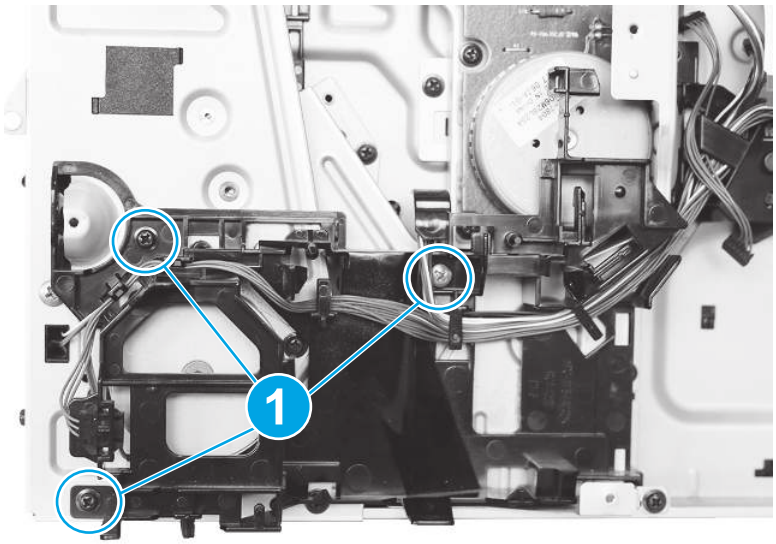
4. Remove the fuser power supply bracket (small lower rear bracket) by pulling in the upper and left side of the bracket and lifting it from the printer.



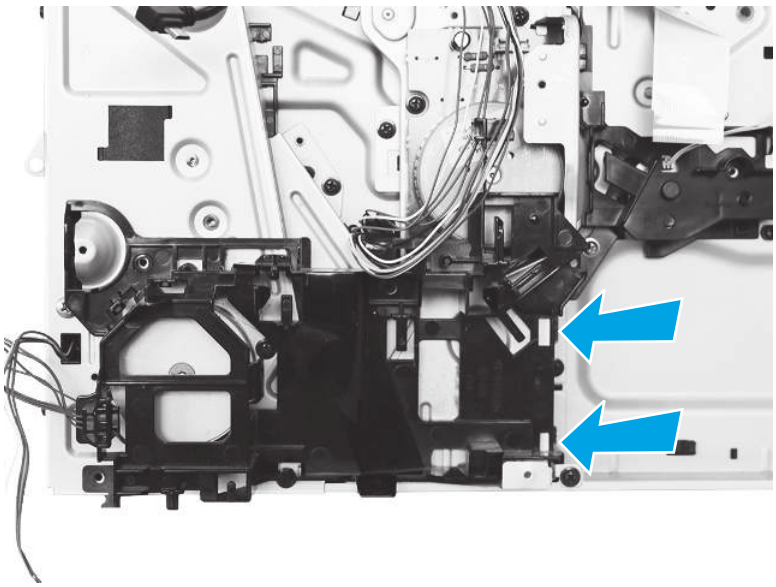
5. Remove the cables from the lower front cable bracket.



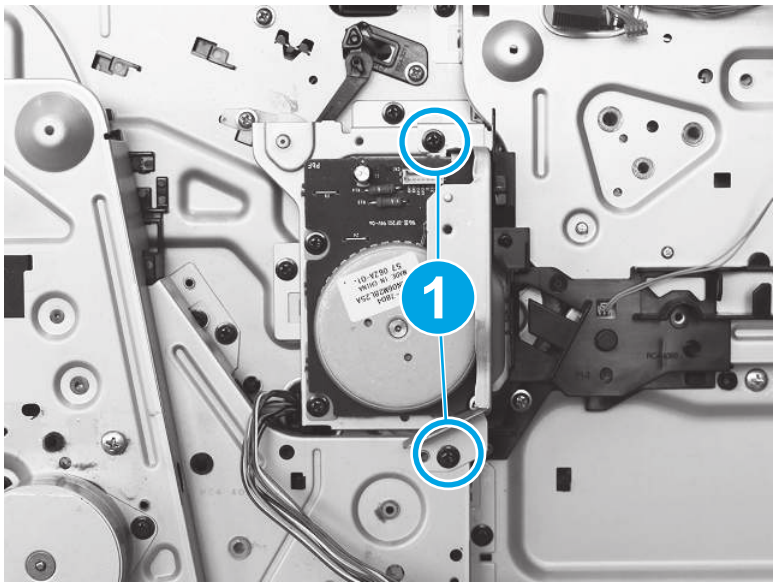
6. Remove three (3) screws (callout 1) from the bracket assembly.



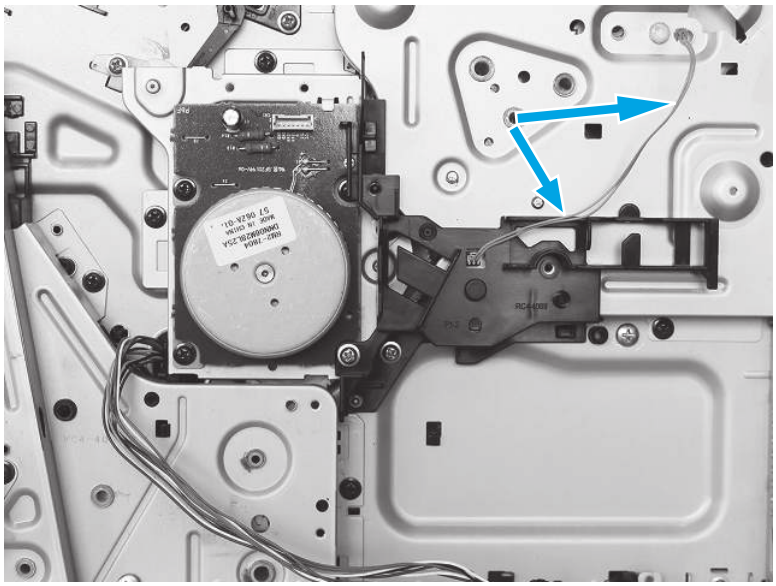
7. Gently pry up the two (2) tabs on the lower right side of the bracket the remove the bracket from the printer.



8. Remove two (2) screws (callout 1) from the metal M1 motor shield and remove the shield from the printer.

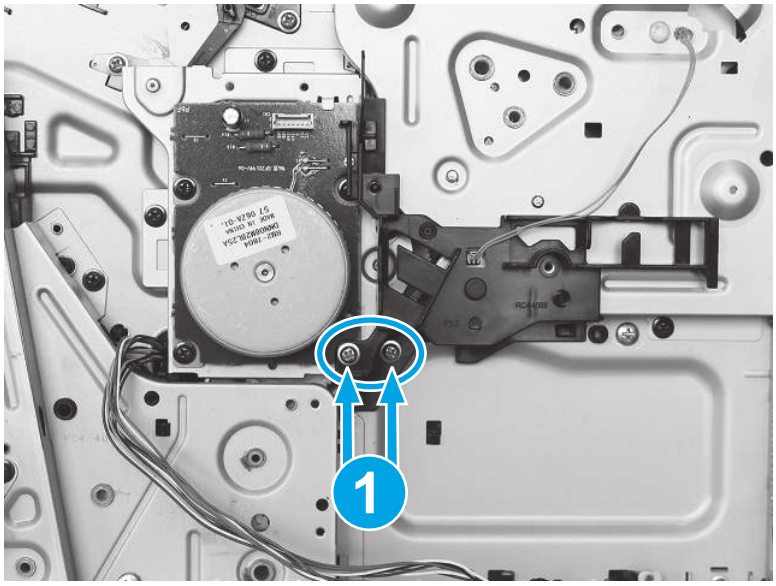


9. Remove the yellow cable from the cable bracket guide.



10. Remove two (2) screws (callout 1) and then remove the cable bracket located to the right of the main motor, M1.

NOTE: Carefully lift off the bracket to ensure that the clutch on the back of the guide does not fall off when removing.



24. Remove the delivery assembly

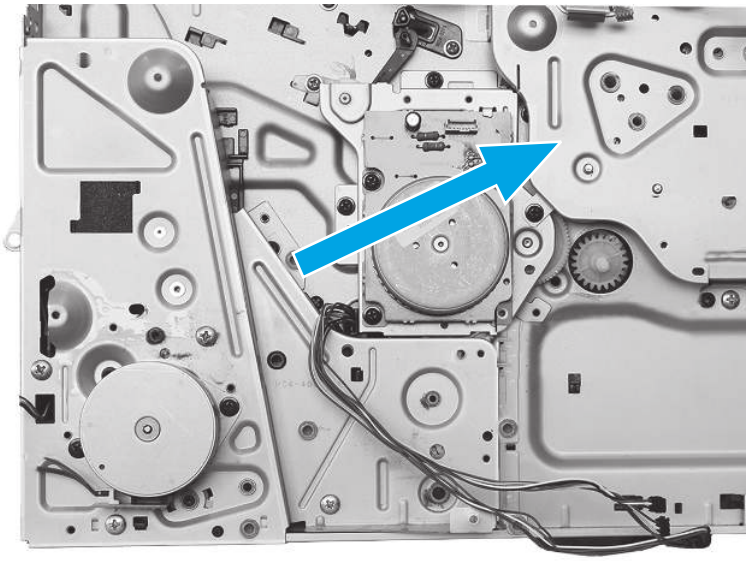
Follow these steps to remove the delivery assembly.

IMPORTANT: It is recommended to bring the printer back to the shop to perform the following removal and replacement repairs.

NOTE: Lay the engine on its left side to make removal or the following parts easier.

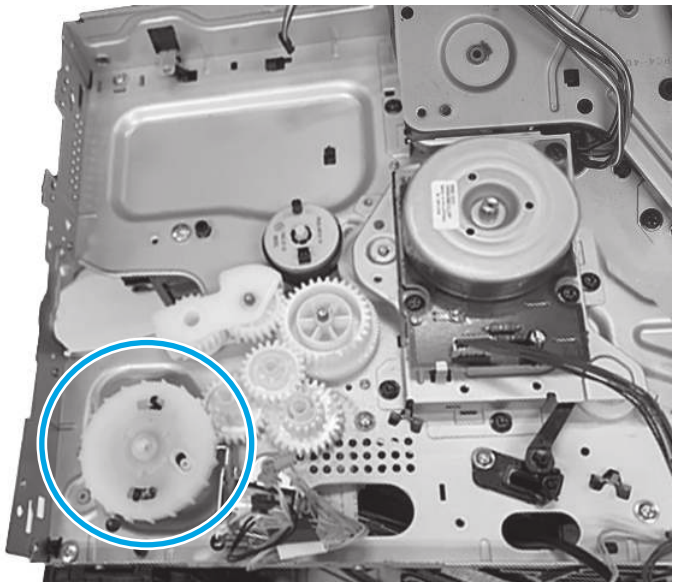
1. After removing the cable guide, access the 3 screws for the main drive metal cover and remove.

Figure 1-1382 Remove main gear drive metal cover



2. Carefully pull up on and remove the duplex gear to access the screws underneath.

Figure 1-1383 Remove gear

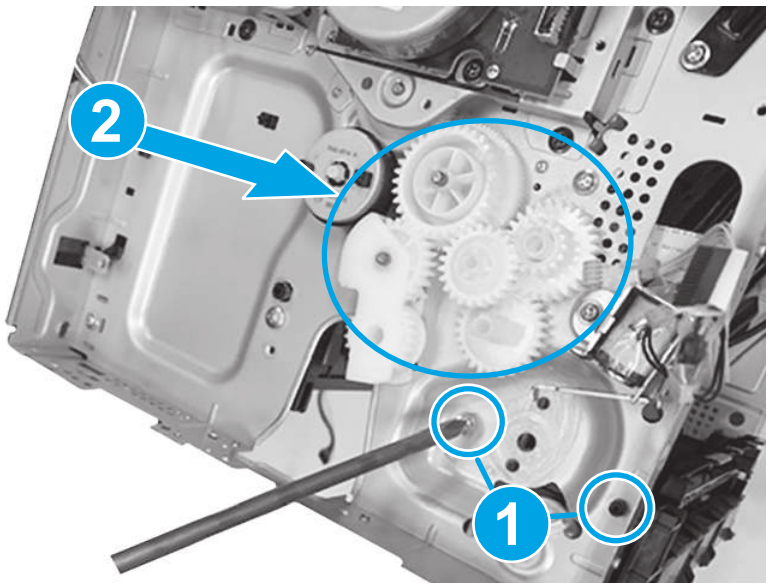


TIP: Note the position of the solenoid on the lower right of the gear for reassembly.

3. Remove two (2) screws (callout 1) from the left side of the engine and set the engine up on the feet.

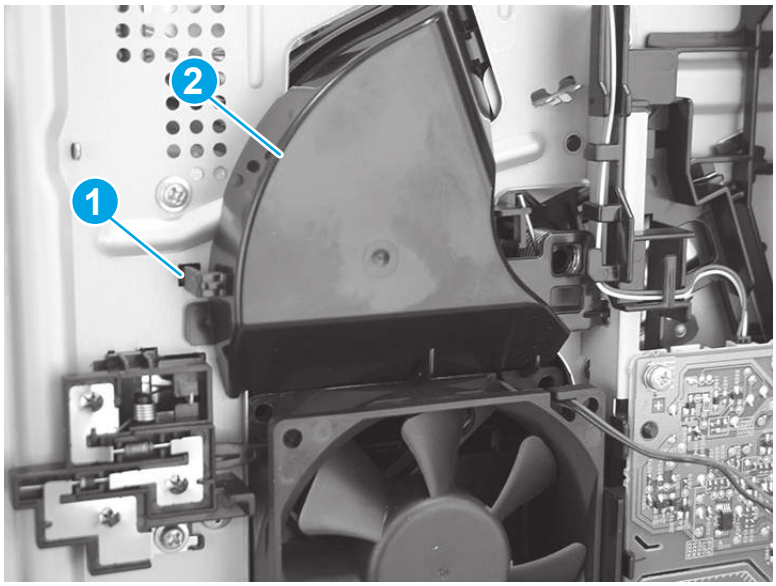
IMPORTANT: Ask someone to hold the main gear assembly (callout 2) in place so the gears do not fall off when the engine is set up.

Figure 1-1384 Remove screws



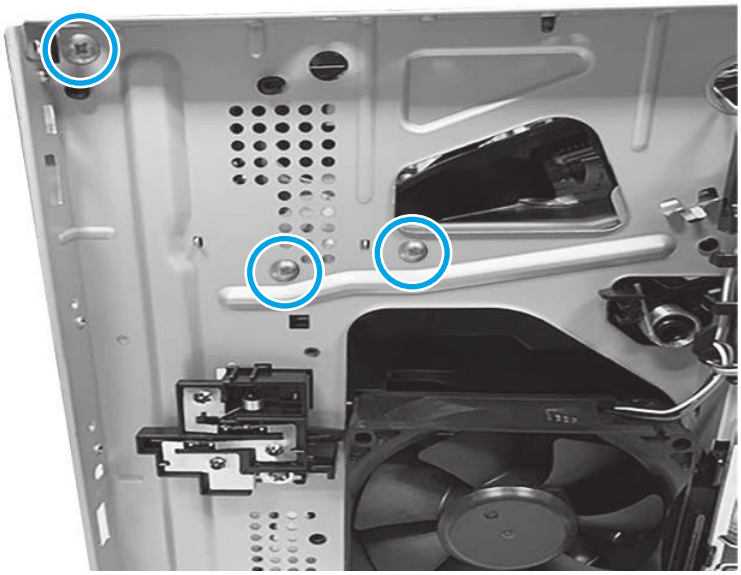
4. Release one tab (callout 1), and then remove the fan duct (callout 2).

Figure 1-1385 Remove the fan duct



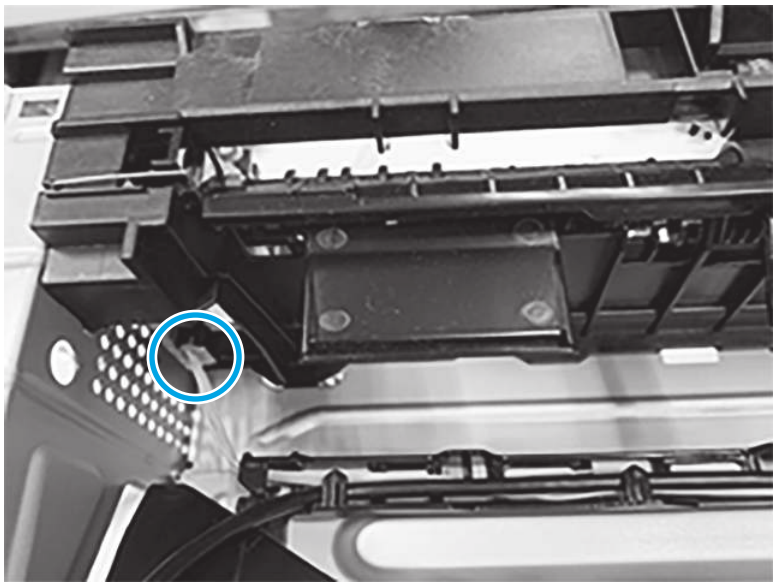
5. Remove 3 screws from the deliver assembly.

Figure 1-1386 Remove 3 screws



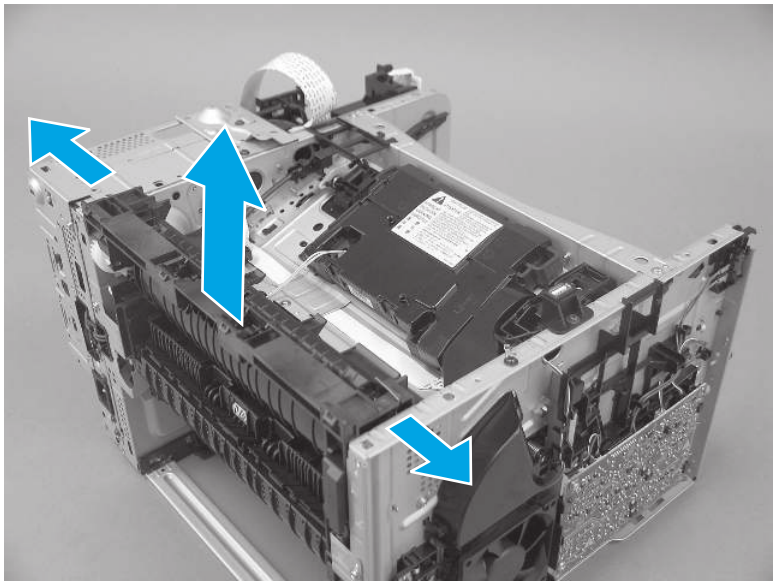
6. Unplug the delivery assembly connector.

Figure 1-1387 Unplug the connector



7. Remove the delivery assembly by slightly pulling the chassis sides apart.

Figure 1-1388
Remove the delivery assembly



25. Installation special instructions

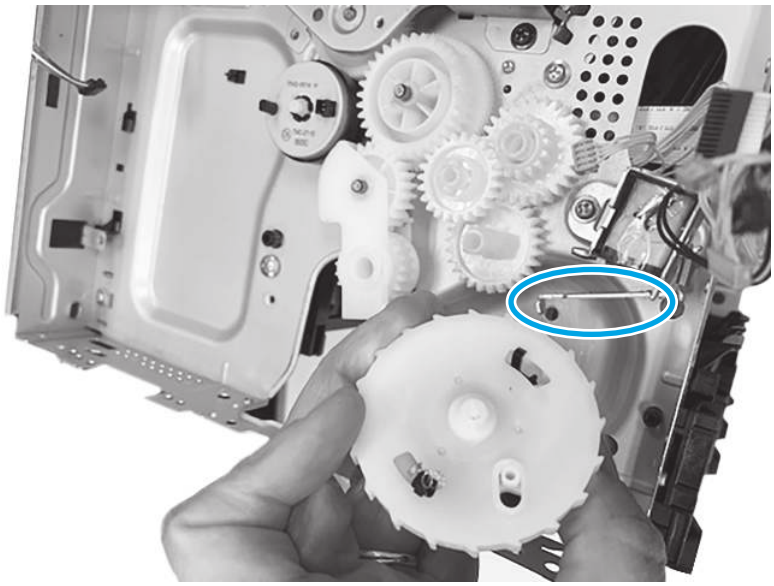
Use these specific steps when installing the new delivery assembly.

1. On installation of the new part, make sure the gears on the new delivery assembly do not fall off before installing since they are not held in by screws.

Figure 1-1389 Delivery drive gear

2. On installation, make sure the main drive gear train does not fall off. Pay special attention to the duplex gear from the removal step, make sure the solenoid is in the right position when installing the gear.

Figure 1-1390 Check solenoid



3. Follow the removal steps in reverse order to install all parts that were removed from th eprinter.

26. Unpack the replacement assembly

Follow these steps to unpack the replacement assembly.

1. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

2. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

NOTE: If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

3. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Remove and replacement: Trays

Learn how to remove and replace the printer trays.

Removal and replacement: Tray 2

Learn how to remove and replace Tray 2.

To view a short video of this procedure, click the link below.

View a video of how to remove and replace Tray 2.

Mean time to repair: 5 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

WARNING! To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-46 Part information

Part number	Part description
RM2-5690-000CN	Cassette (Tray 2) assembly

Required tools

- No special tools are required to remove or install this assembly.

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

Print a page from Tray 2 to make sure that the paper feeder is functioning correctly.

1. Remove the tray.

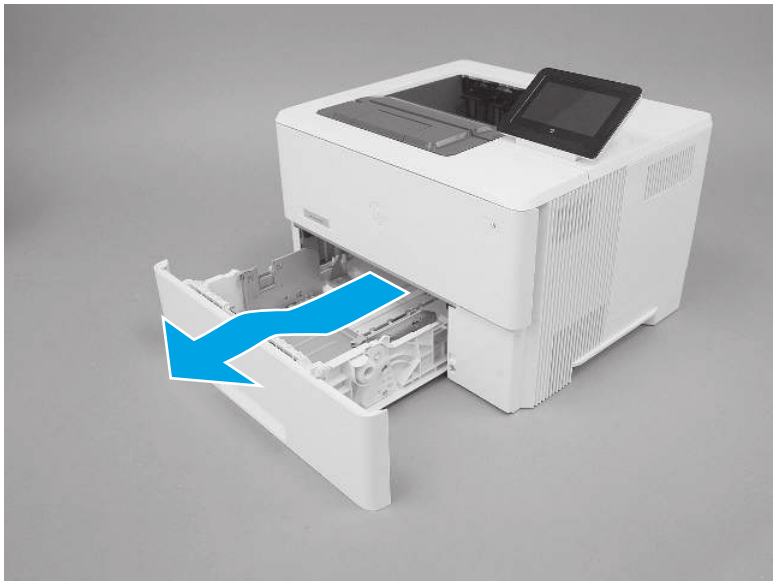
   a. Pull the tray straight out of the printer until it stops.

   Figure 1-1391 Pull the tray out until it stops

   b. Lift the front of the tray, and then pull it out of the printer to remove it.

   NOTE: If the tray has Fixed Tray Guides installed and are still required, move the hardware to new tray. If necessary, order new kit: 3GY19-67901 Kit-Fixed Tray Guide. Only one kit required per engine.

Figure 1-1392 Release and remove the tray



2. Unpack the replacement assembly.

   a. Dispose of the defective part.

   NOTE: HP recommends responsible disposal of the defective part.

   http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

   b. Unpack the replacement part from the packaging.

   CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

   If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

   IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

   c. To install an assembly, reverse the removal steps.

   NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Removal and replacement: Tray 3

Learn how to remove and replace Tray 3.

To view a short video of this procedure, click the link below.

View a video of how to remove and replace Tray 3.

Mean time to repair: 5 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

> ⚠ **WARNING!** To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-47 Part information

Part number	Part description
RM2-5758-000CN	Cassette (Tray 3) assembly

Required tools

- No special tools are required to remove or install this assembly.

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

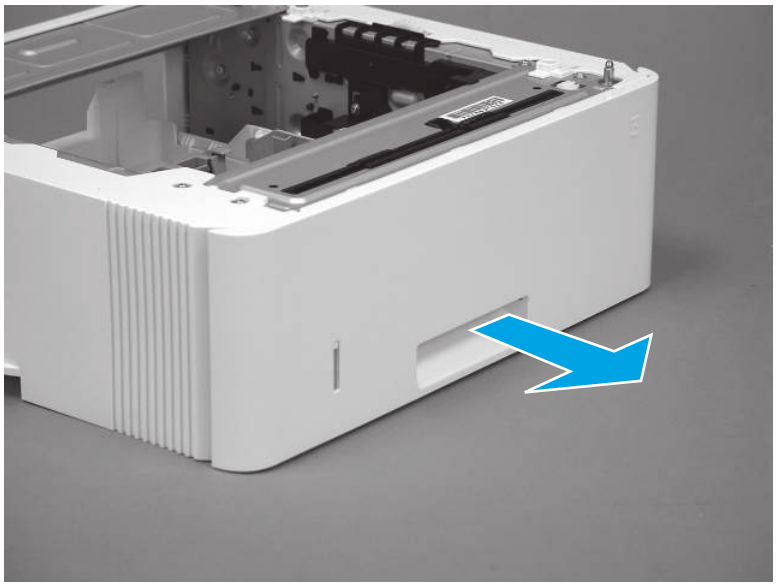
Post service test

Print a page from Tray 3 to make sure that the paper feeder is functioning correctly.

1. Remove the tray.

a. Pull the tray straight out of the printer until it stops.

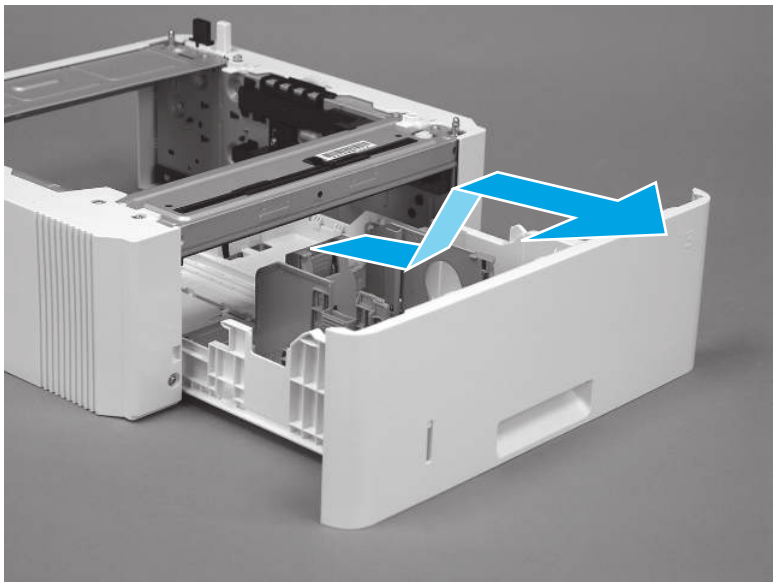
Figure 1-1393 Pull the tray out of the printer



b. Slightly lift up on the front of the tray to release it, and then continue to pull the tray out of the accessory to remove it.

NOTE: If the tray has Fixed Tray Guides installed and are still required, move hardware to new tray. If necessary, order new kit: 3GY19-67901 Kit-Fixed Tray Guide. Only one kit required per engine.

Figure 1-1394 Release and remove the tray



2. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Remove and replacement: Accessories

Learn how to remove and replace the accessories.

Removal and replacement: 550-sheet paper feeder

Learn how to remove and replace the optional 550-sheet paper feeder.

To view a short video of this procedure, click the link below.

NOTE: The printer accepts up to three optional paper trays.

View a video of how to remove and replace the 550-sheet feeder.

Mean time to repair: 8 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

WARNING! To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-48 Part information

Part number	Part description
F2A72-67901	Optional 550-sheet paper feeder with instruction guide

Required tools

- No special tools are required to remove or install this assembly.

After performing service

Turn the printer power on

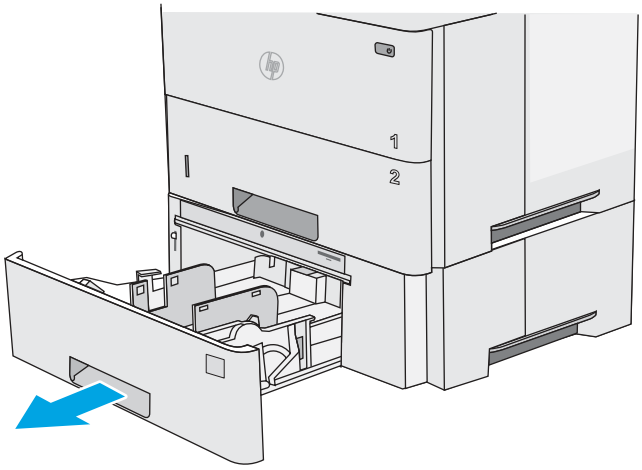
- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

Print a page from the optional tray (or trays) to make sure that the paper feeder is functioning correctly.

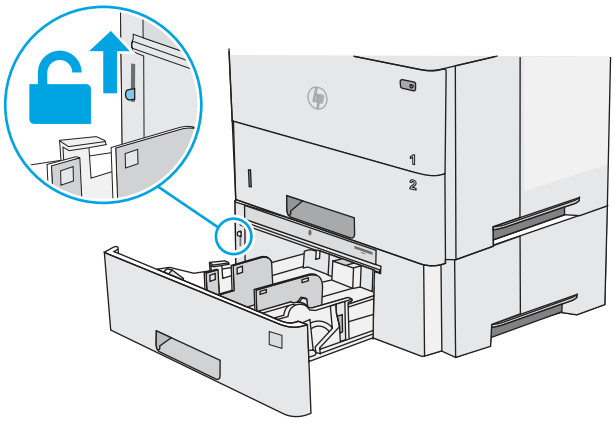
1. Remove the optional 550-sheet paper feeder.
   a. Slide the tray out of the printer.

   Figure 1-1395 Open the tray

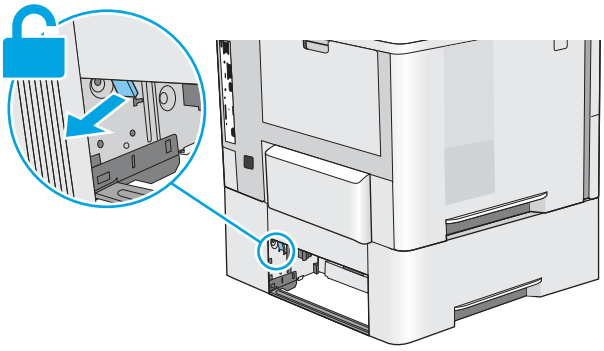
   b. Pull up on the blue lever to unlock it.

   Figure 1-1396 Unlock the front accessory lock

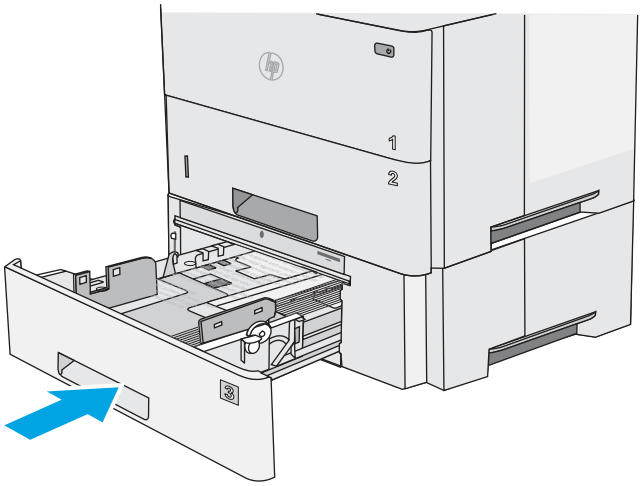
c. At the rear of the printer, pull out on the blue lever to unlock it.

Figure 1-1397 Unlock the rear accessory lock



d. Close the tray.

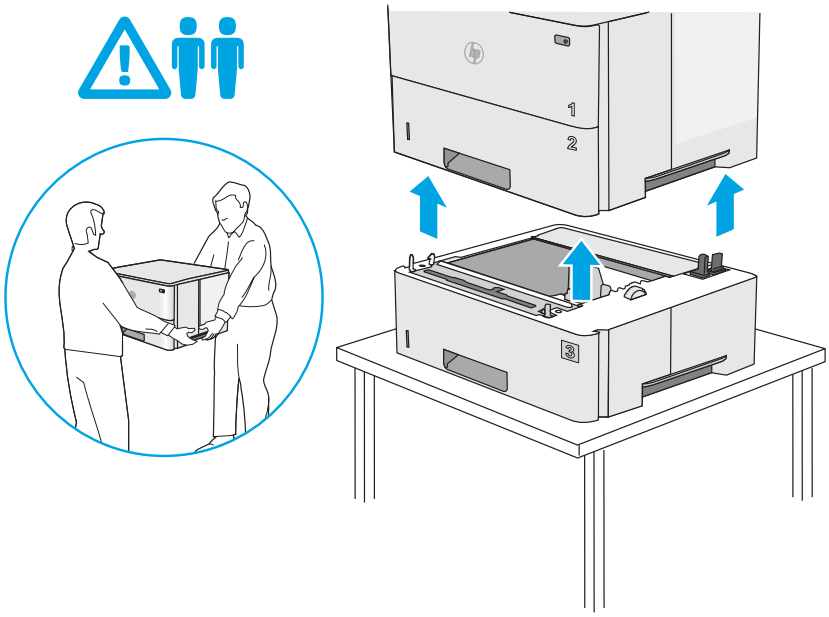
Figure 1-1398 Close the tray



e. Lift the printer off of the accessory.

⚠ CAUTION: The printer is heavy. HP recommends two people lift the printer.

Figure 1-1399 Lift the printer off of the accessory



2. Unpack the replacement assembly.

   a. Dispose of the defective part.

   NOTE: HP recommends responsible disposal of the defective part.

   http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

   b. Unpack the replacement part from the packaging.

   CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

   If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

   IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

   c. To install an assembly, reverse the removal steps.

   NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

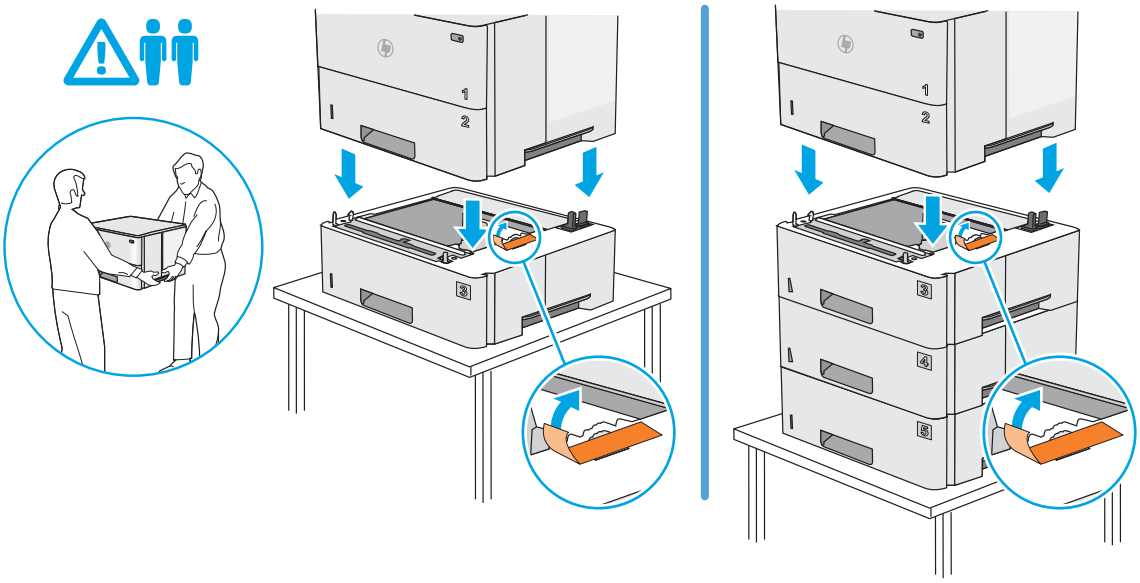
3. Install the optional 550-sheet paper feeder.

   a. Remove the orange shipping tape, and then place the printer on the replacement accessory.

   CAUTION: The printer is heavy. HP recommends two people lift the printer.

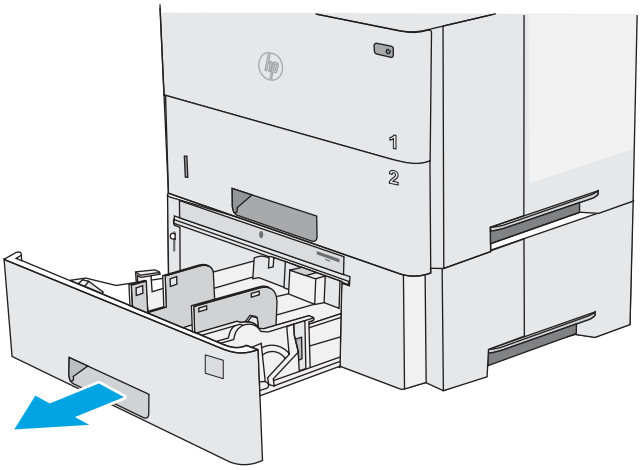
   NOTE: The printer accepts up to three optional paper trays.

Figure 1-1400 Remove shipping tape



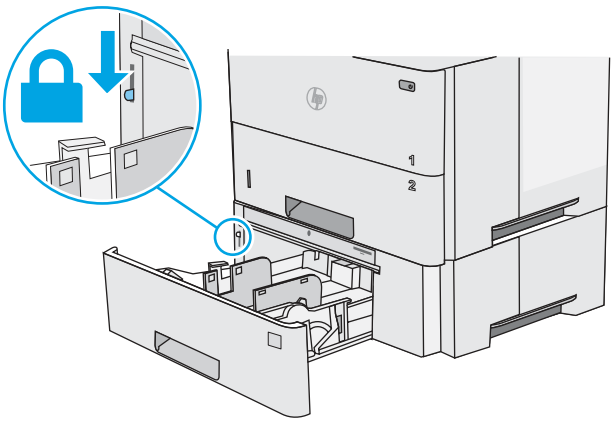
b. Slide the tray out of the printer.

Figure 1-1401 Open the tray



c. Push down on the blue lever to lock it.

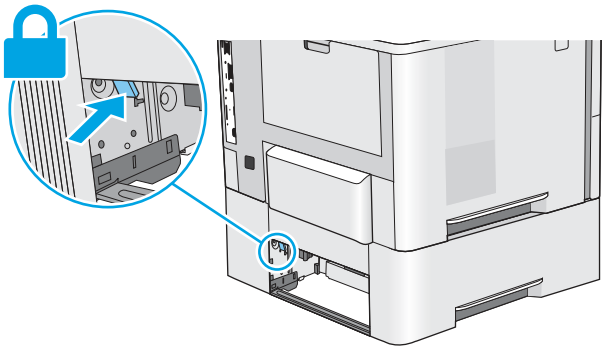
Figure 1-1402 Lock the front accessory lock



d. At the rear of the printer, push in on the blue lever to lock it.

NOTE: Repeat these steps to make sure all of the installed trays are locked together and to the printer base.

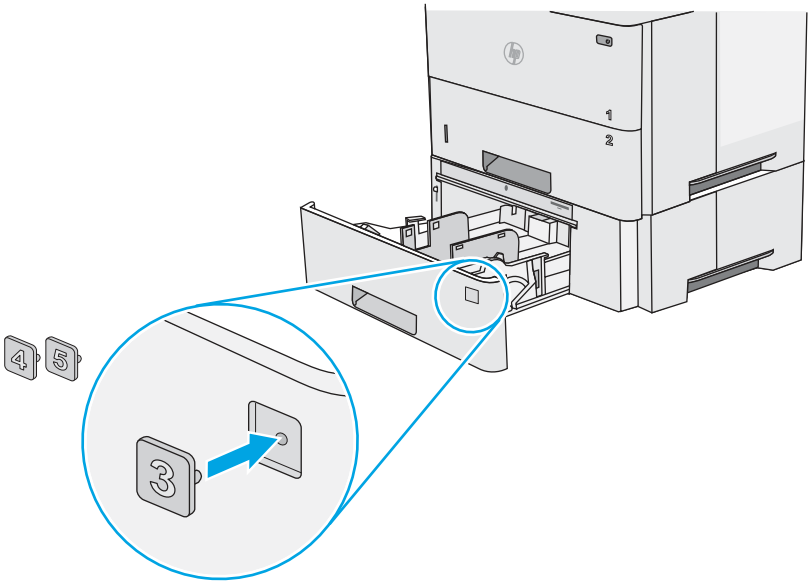
Figure 1-1403 Lock the rear accessory lock



e. Position the appropriate tray number plate in the depression in the tray, and then push in to install it.

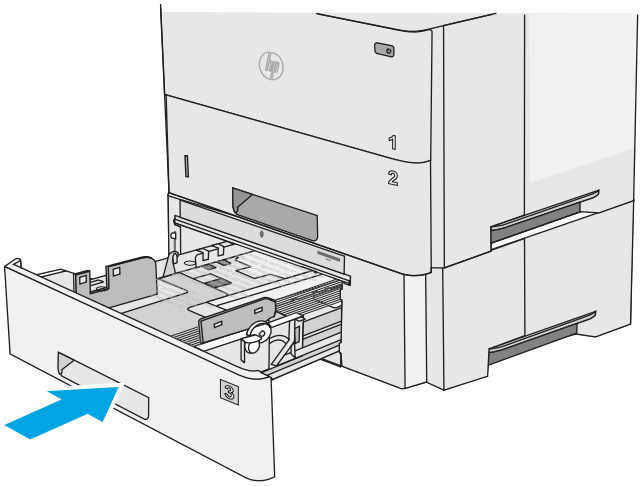
TIP: Number plates are included with the accessory.

Figure 1-1404 Install the tray number plate



f. Close the tray.

Figure 1-1405 Close the tray



Removal and replacement: Document feeder rollers (MFP)

Learn how to remove and replace the document feeder pickup and feed roller assembly and the separation roller assembly.

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the document feeder pickup and feed roller assembly and the separation roller assembly.

Mean time to repair: 10 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

WARNING! To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

IMPORTANT: When replacement rollers are installed, reset the **New Document Feeder Kit** firmware counter.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-49 Part information

Part number	Part description
B5L52-67903	Document feeder maintenance kit accessory with instruction guide

Required tools

- No special tools are required to remove or install this assembly.

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

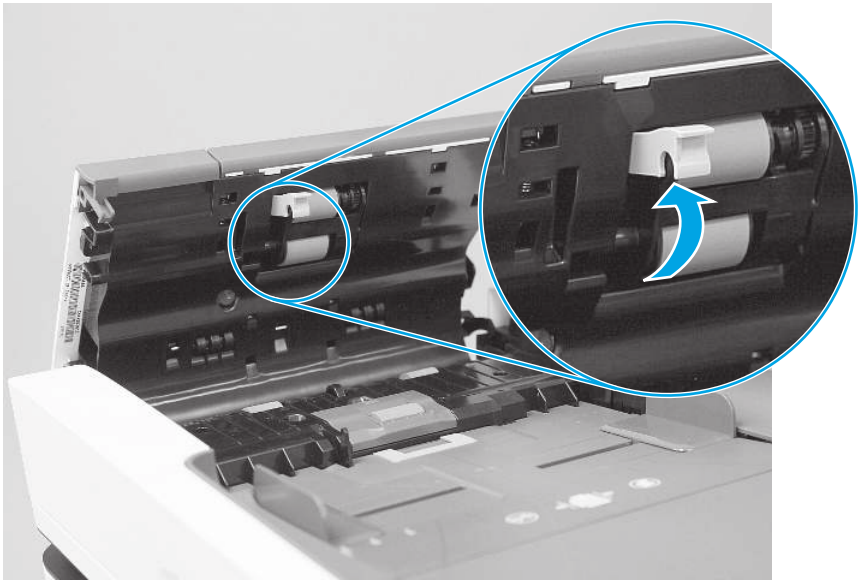
Use the document feeder to copy a page to make sure that it is functioning correctly.

1. Remove the document feeder pickup and feed roller assembly.
   a. Open the document feeder jam access door.

Figure 1-1406 Open the door

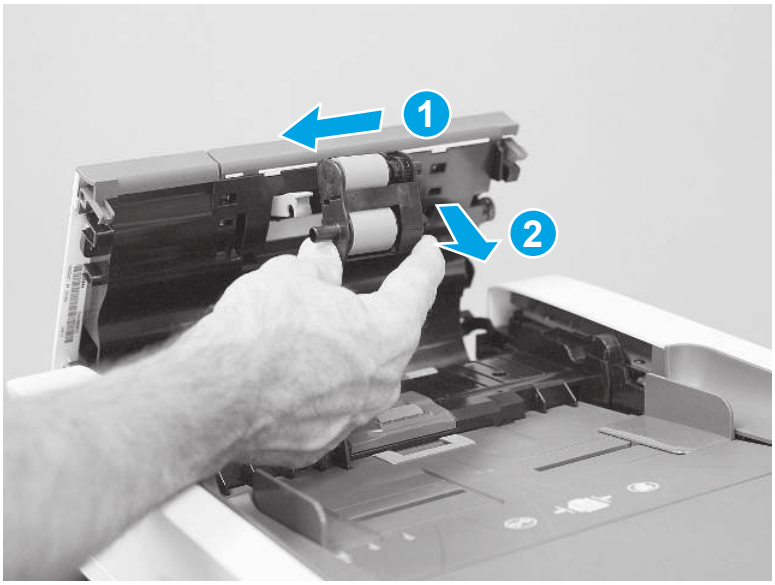
b. Raise the blue lever to release the document feeder pickup and feed roller assembly.

Figure 1-1407 Raise the blue lever



c. Slide the roller assembly toward the front of the printer (callout 1), and then away from the document feeder (callout 2) to remove it.

Figure 1-1408 Remove the roller assembly



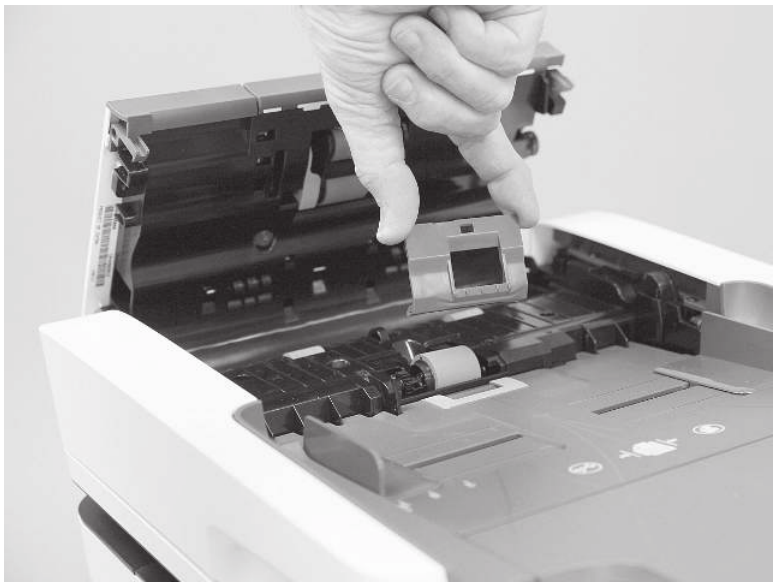
2. Remove the document feeder separation roller assembly.

a. Open the document feeder separation roller assembly cover.

Figure 1-1409 Open the cover

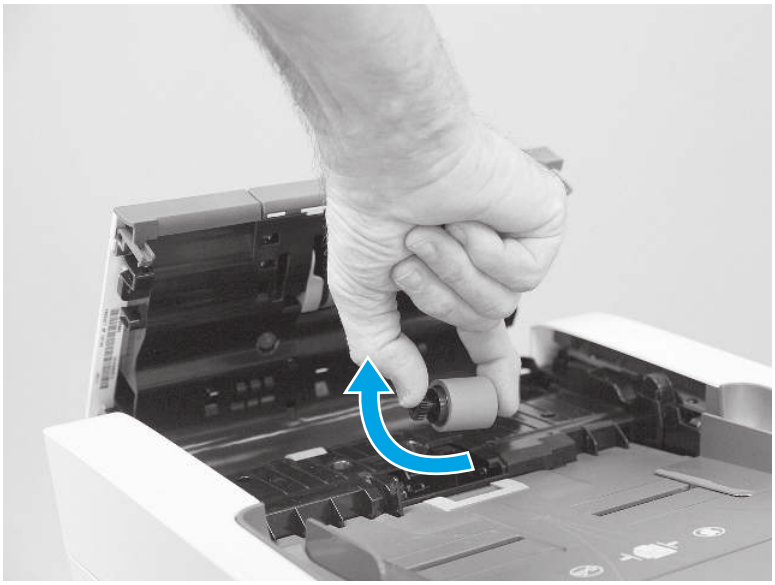
b. Remove the cover.

Figure 1-1410 Remove the cover



c. Slide the roller assembly toward the front of the printer, and then rotate it up and away from the document feeder to remove it.

Figure 1-1411 Remove the roller assembly



3. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

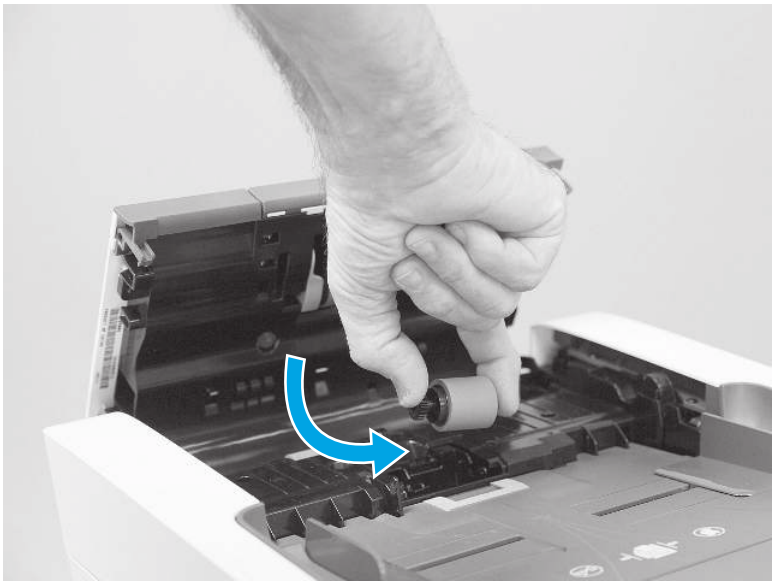
4. Install the document feeder separation roller assembly.

CAUTION: Do not touch the spongy portion of the replacement roller. Skin oils on the roller can cause paper handling problems. HP recommends washing your hands before handling the assembly.

a. Place the solid-shaft end of the assembly (the gear end will face the front of the printer) in the slot provided in the roller holder, and then rotate the gear end down and into the document feeder.

NOTE: The roller might seem loose until the cover is installed and snapped closed. The cover helps hold the roller in place.

Figure 1-1412 Install the roller assembly

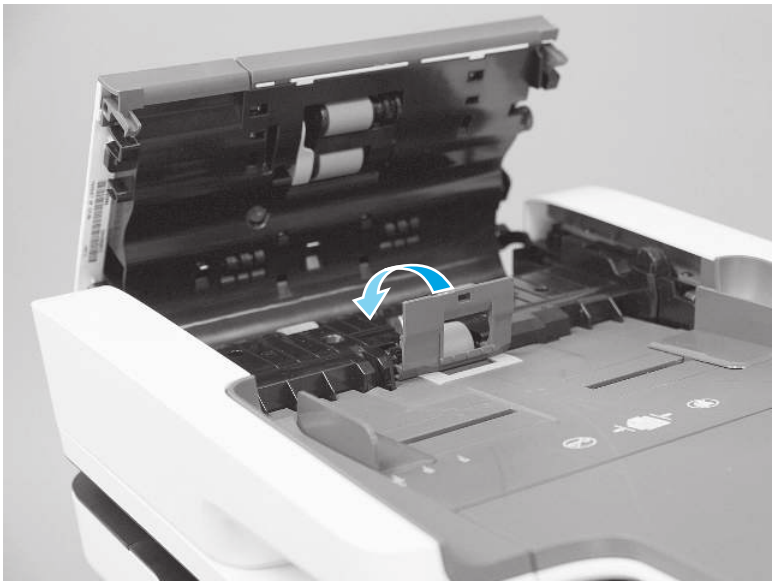


b. Position the roller cover on the document feeder.

Figure 1-1413 Install the roller cover

c. Close the roller cover.

Figure 1-1414 Close the roller cover



d. Push down to snap the cover into place.

NOTE: When the cover is correctly installed, an audible click is heard when it snaps into place.

Figure 1-1415 Push down on the roller cover

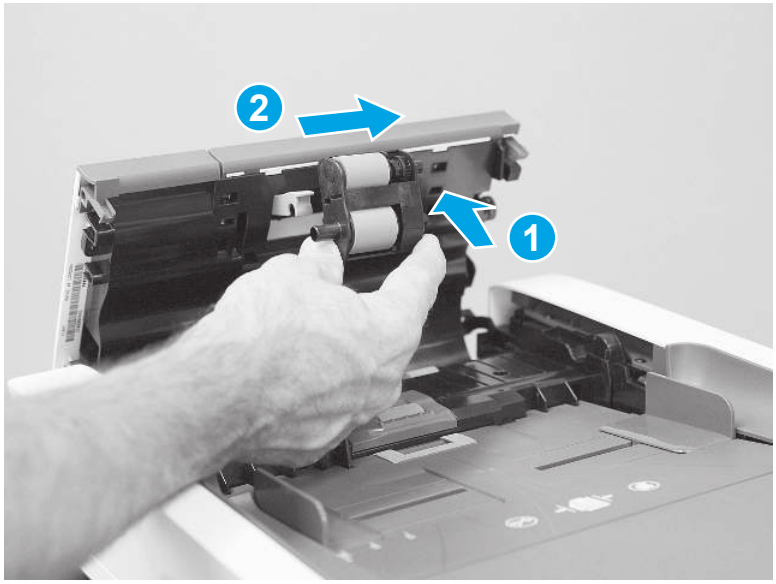
5. Install the document feeder pickup and feed roller assembly.

CAUTION: Do not touch the spongy portion of the replacement roller. Skin oils on the roller can cause paper handling problems. HP recommends washing your hands before handling the assembly.

a. Position the roller assembly in the holder (callout 1) with the drive shaft end of the assembly facing toward the rear of the printer.

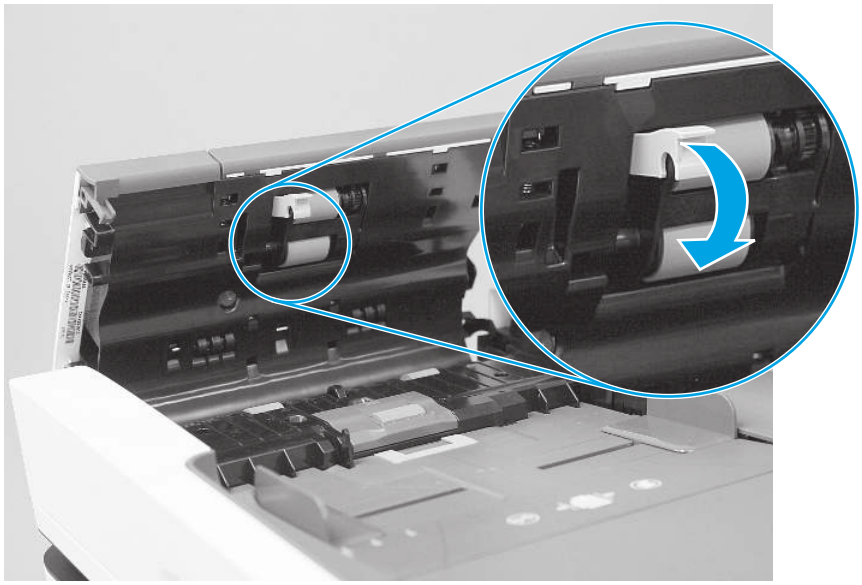
   Slide the assembly toward the rear of the printer to engage the two keyed drive shafts with the two drive bushings (callout 2).

   Figure 1-1416 Install the roller assembly



b. Lower the blue lever until it snaps over the roller assembly solid shaft.

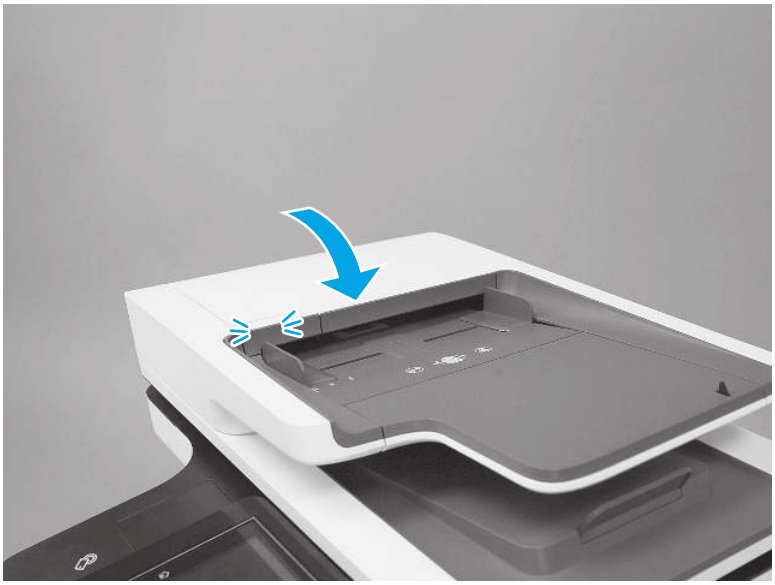
   Figure 1-1417 Close the blue lever



c. Close the document feeder jam access door.

NOTE: When the door is completely closed, an audible click is heard when it latches closed.

Figure 1-1418 Close the door



6. Reverse the removal steps to install the assembly. Also use the following **special installation instructions**.

NOTE: Resetting the firmware counter is firmware dependent. Do one of the following.

Reset the firmware counter (FS3)

a. From the Home screen on the control panel, scroll to and touch the Administration button.

Figure 1-1419 Home screen (FS3)

b. Open the following menus:

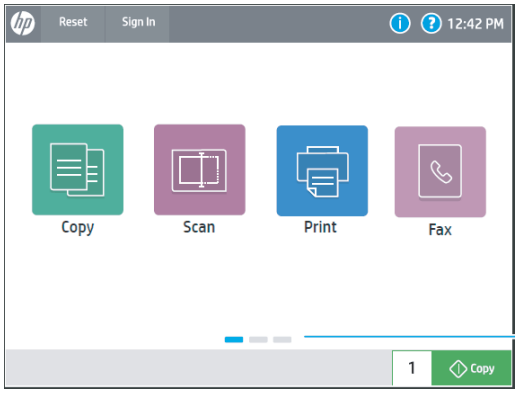
- Manage Supplies
- Reset Supplies
- New Document Feeder Kit

c. Select the Reset item to reset the firmware counter.

Reset the firmware counter (FS4)

a. At the printer control panel, do the following.

Figure 1-1420 Home screen (FS4)



b. Scroll to, and then select the Settings button.

c. Open the following menus:

- Manage Supplies
- Reset Supplies

d. Select the Document Feeder Kit item, and then select the Reset button to reset the firmware counter.

Removal and replacement: Fax printed-circuit board (M527c/f/z, E52545c/f/z, M528c/f/z, and E52645c/f/z)

Learn how to remove and replace the fax printed-circuit board.

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the FAX PCA.

Mean time to repair: 10 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

⚠ **WARNING!** To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

⚠ **CAUTION:** This part contains components that are electrostatic discharge (ESD) sensitive. To reduce the possibility of ESD damage, always touch the sheet-metal chassis to ground yourself before touching an ESD sensitive part.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-50 Part information

Part number	Part description
B5L53-67901	Fax printed-circuit board with instruction guide

Required tools

- No special tools are required to remove or install this assembly.

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

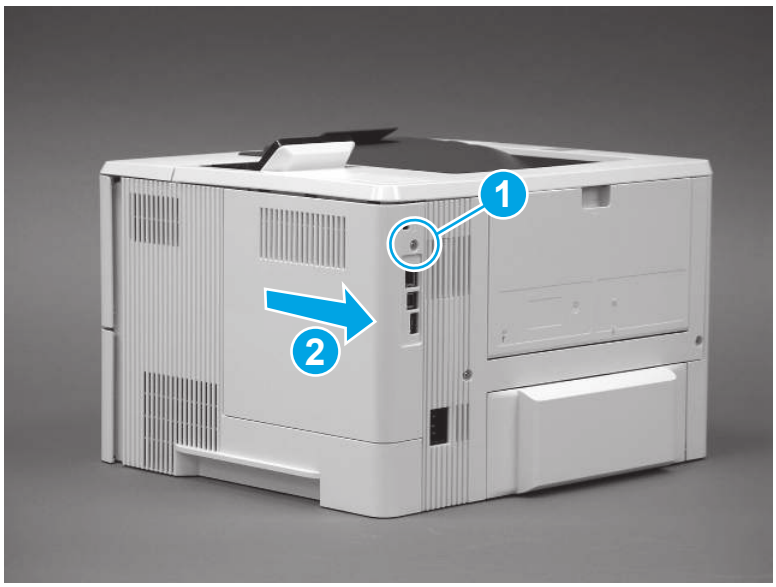
Send/receive a fax using the printer.

1. Remove the formatter cover.

   ▲ Do one of the following:

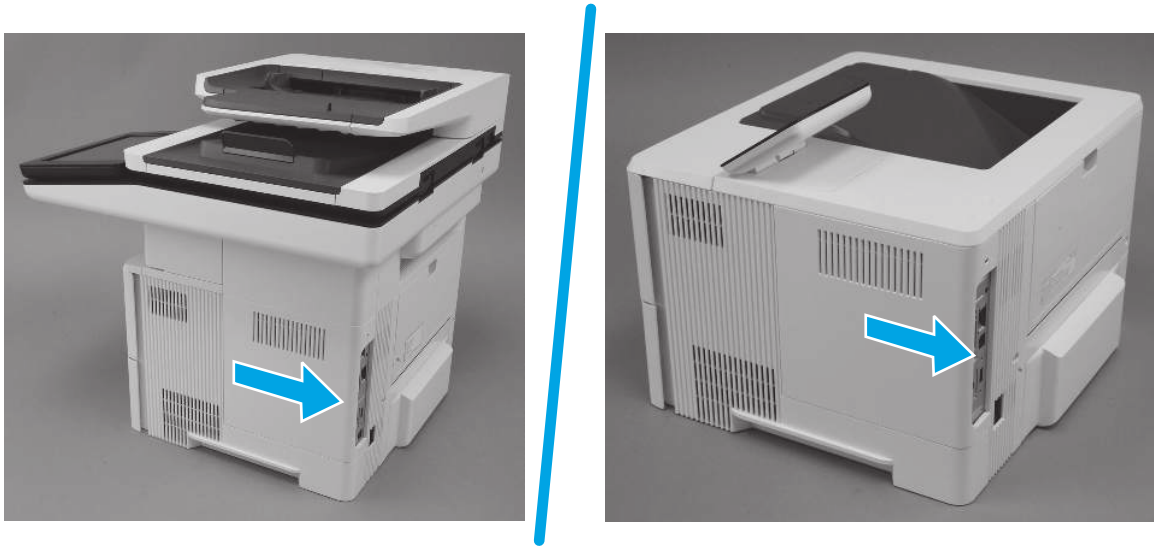
   - M501: Remove one screw (callout 1), and then slide the cover toward the rear of the printer to remove it (callout 2).

     Figure 1-1421 Remove the formatter cover (M501)

   - M506/E50045/M507/E50145/M527/E52545/M528/E52645: Slide the cover toward the rear of the printer to remove it.

Figure 1-1422 Remove the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)

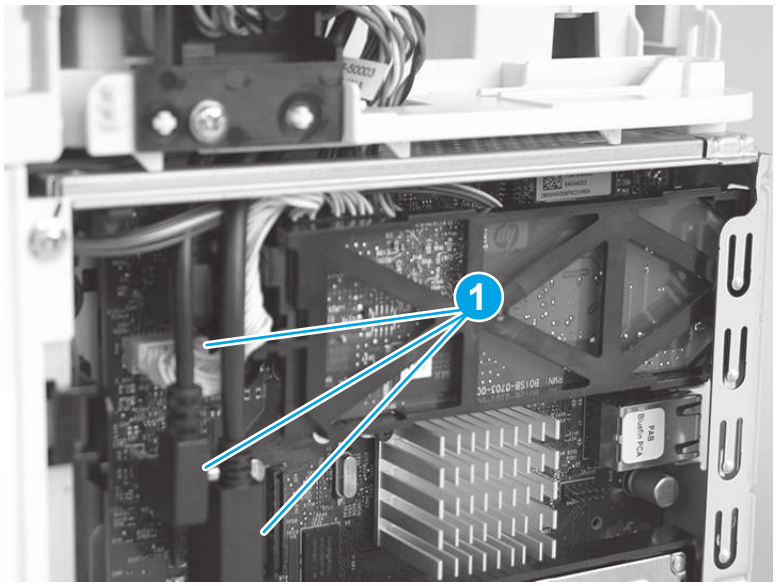


2. Remove the fax PCA (M527/E52545/M528/E52645 fax models).

⚠ CAUTION: ESD-sensitive part.

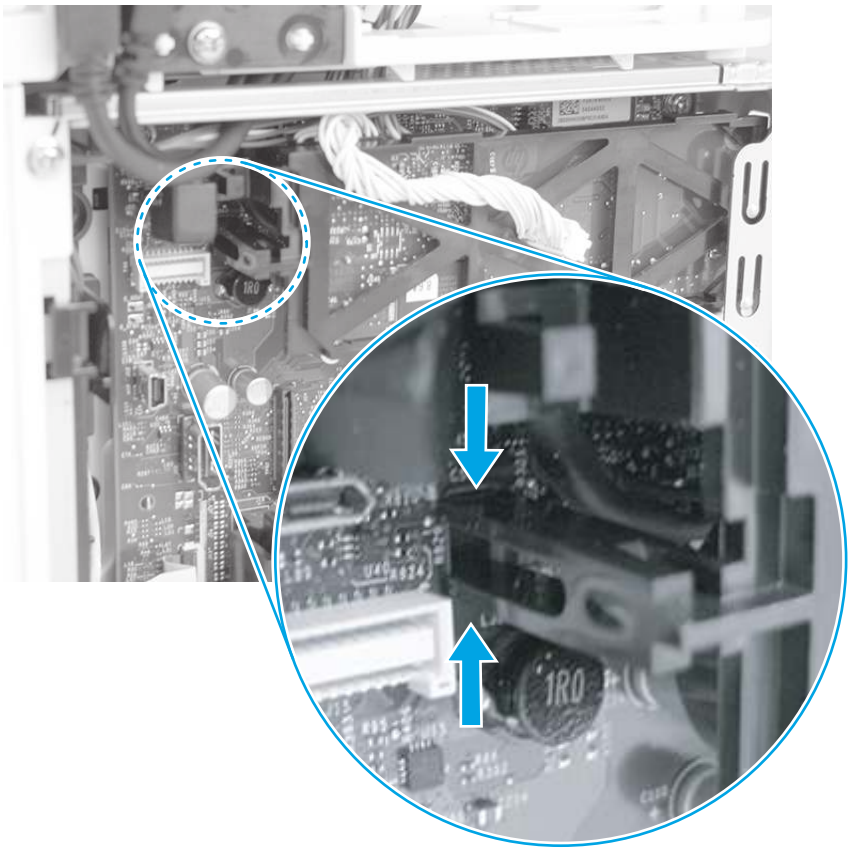
a. Disconnect three connectors (callout 1).

Figure 1-1423 Disconnect three connectors



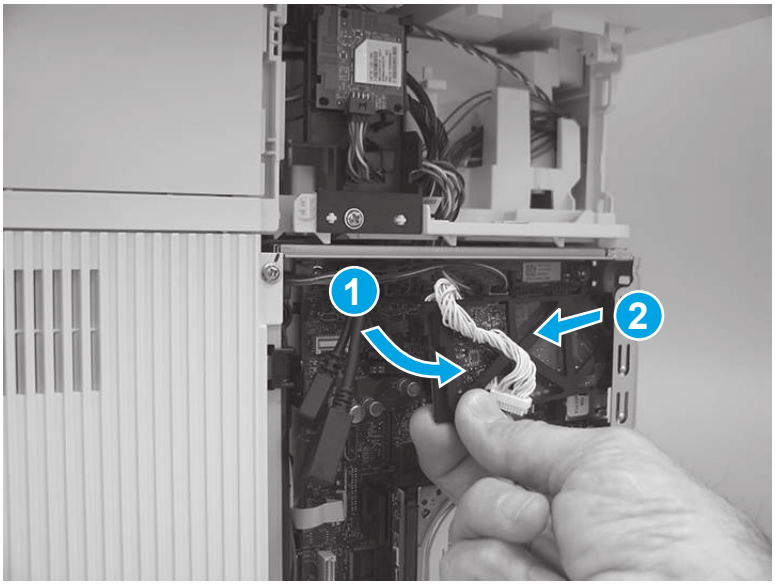
b. Pinch the retainer to release it.

Figure 1-1424 Release the fax PCA



c. Rotate the connector end of the fax PCA out and away from the formatter (callout 1), and then slide it as shown (callout 2) to remove it.

Figure 1-1425 Remove the fax PCA



3. Unpack the replacement assembly.

a. Dispose of the defective part.

NOTE: HP recommends responsible disposal of the defective part.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

b. Unpack the replacement part from the packaging.

CAUTION: Some parts are sensitive to electrostatic discharge (ESD). Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground before touching an ESD-sensitive assembly. Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

c. To install an assembly, reverse the removal steps.

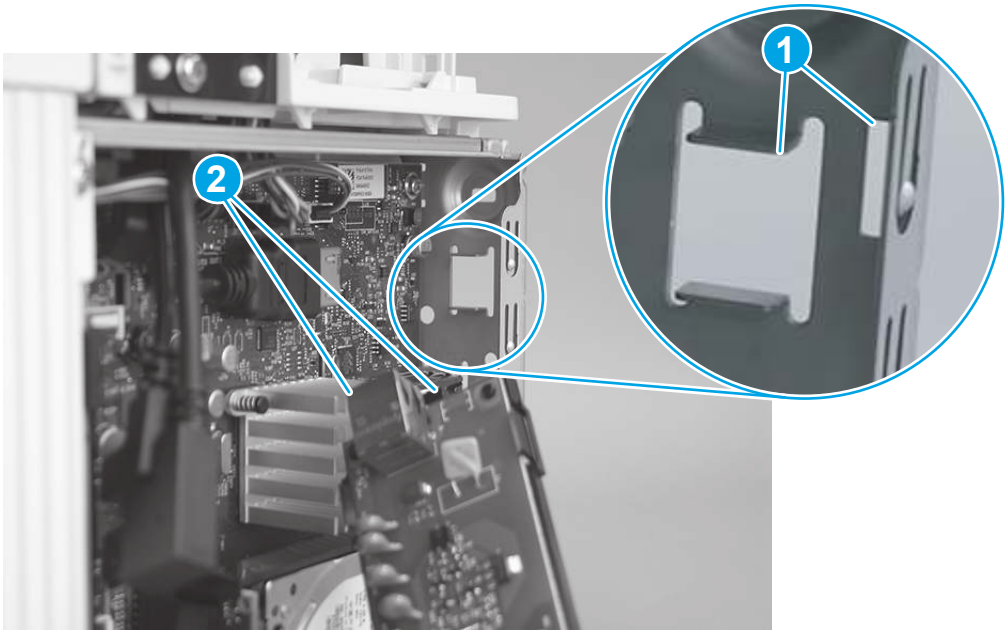
NOTE: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

4. Install the fax PCA (M527/E52545/M528/E52645 fax models).

CAUTION: ESD-sensitive part.

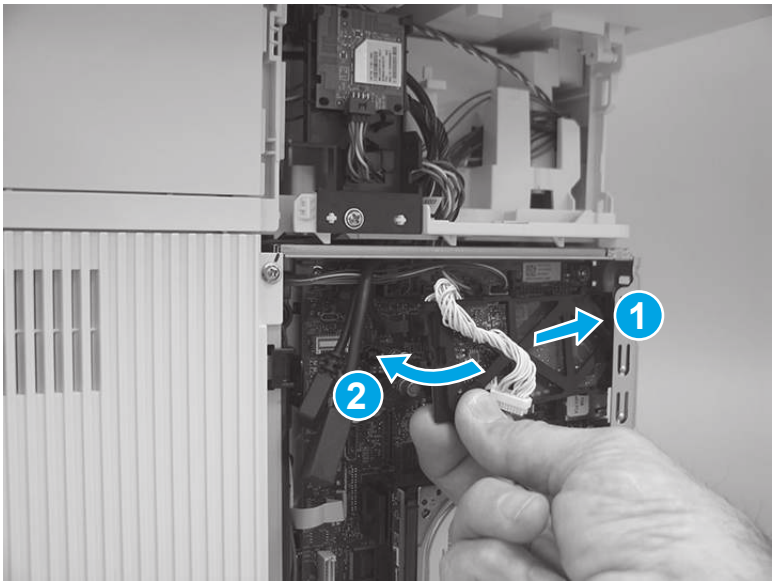
a. Before proceeding, take note of the location of the slots (callout 1) in the sheet-metal where the fax PCA cradle mounting tab and fax port (callout 2) must be installed.

Figure 1-1426 Locate the slots in the sheet-metal



b. Insert the fax PCA cradle mounting tab and fax port in the slots in the sheet-metal plate (callout 1), and then rotate the connector end of the fax PCA toward the formatter (callout 2).

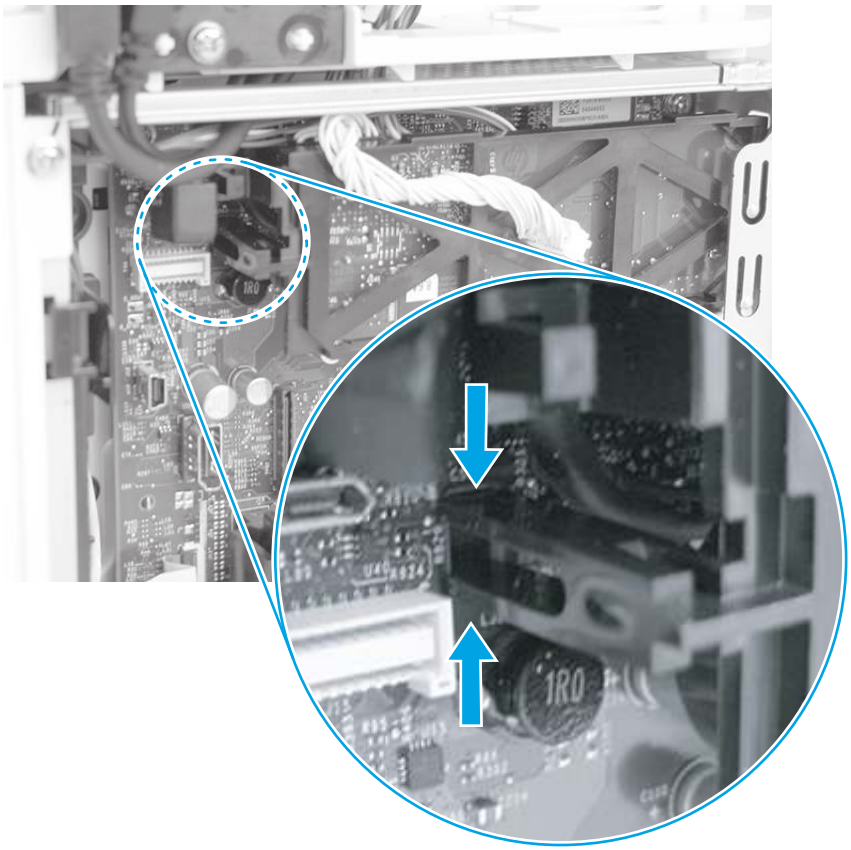
Figure 1-1427 Install the fax PCA



c. Engage the retainer with the slot in the formatter.

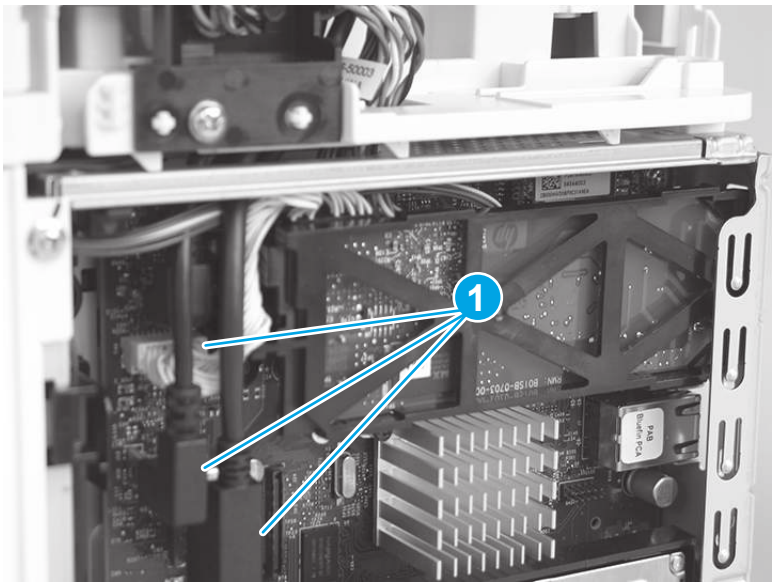
Reinstallation tip: Pinch the retainer to easily engage it with the slot.

Figure 1-1428 Engage the fax PCA



d. Connect three connectors (callout 1).

Figure 1-1429 Connect three connectors

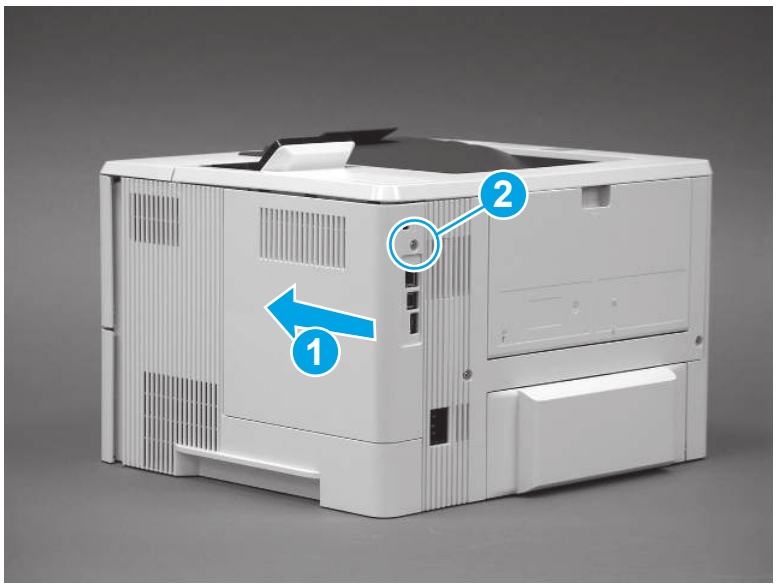


5. Install the formatter cover.

▲ Do one of the following:

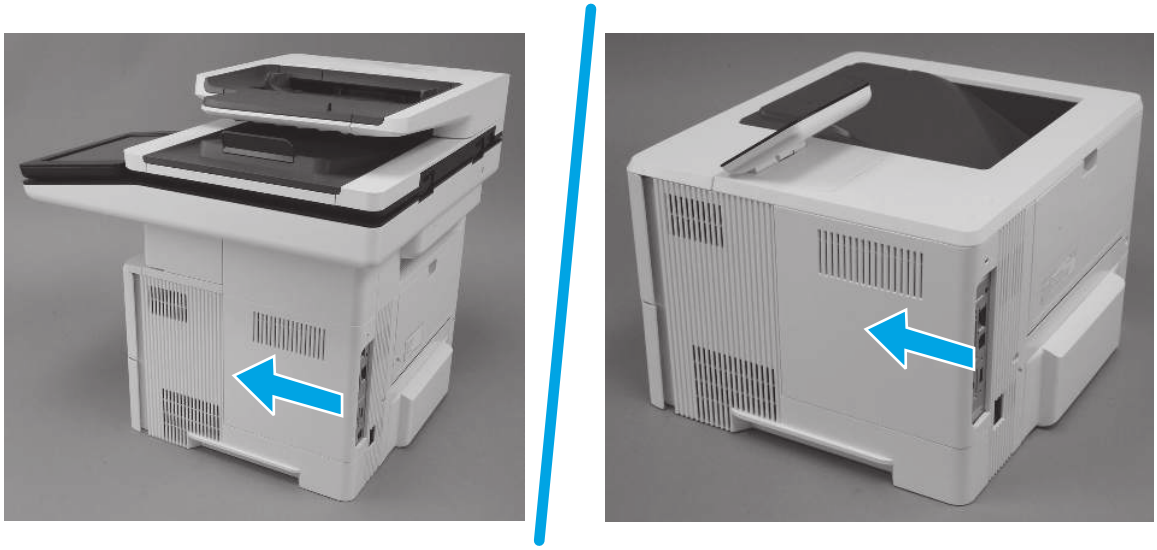
- M501: Slide it toward the front of the printer to install it (callout 1), and then install one screw (callout 2).

Figure 1-1430 Install the formatter cover (M501)



- M506/E50045/M507/E50145/M527/E52545/M528/E52645: Slide it toward the front of the printer to install it.

Figure 1-1431 Install the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)



Install accessory: Internal USB ports (MFP)

Learn how to remove and replace the internal USB ports.

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the internal USB ports.

Mean time to repair: 7 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

⚠ **WARNING!** To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

⚠ **CAUTION:** This part contains components that are electrostatic discharge (ESD) sensitive. To reduce the possibility of ESD damage, always touch the sheet-metal chassis to ground yourself before touching an ESD sensitive part.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-51 Part information

Part number	Part description
F2A87A	Internal USB ports (M527/E52545)
1PV95A	Internal USB ports (M528/E52645)

Required tools

- No special tools are required to remove or install this assembly.

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

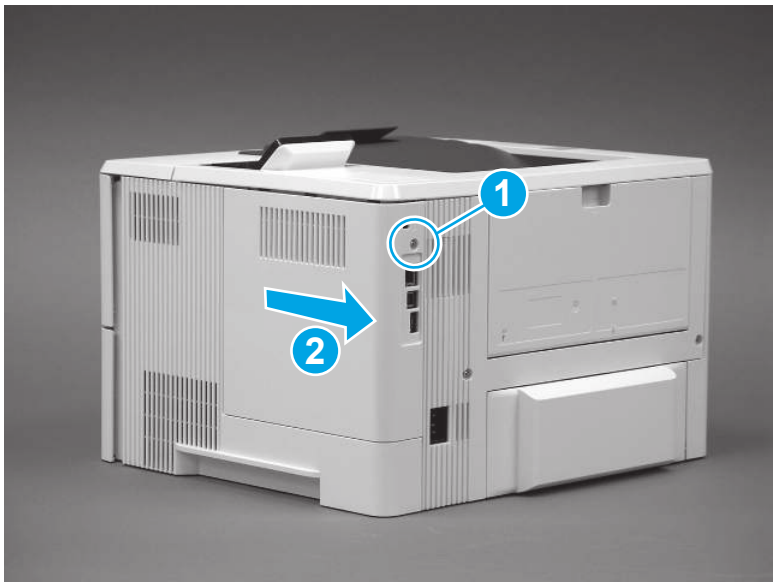
No post service test is available for this assembly.

1. Remove the formatter cover.

   ▲ Do one of the following:

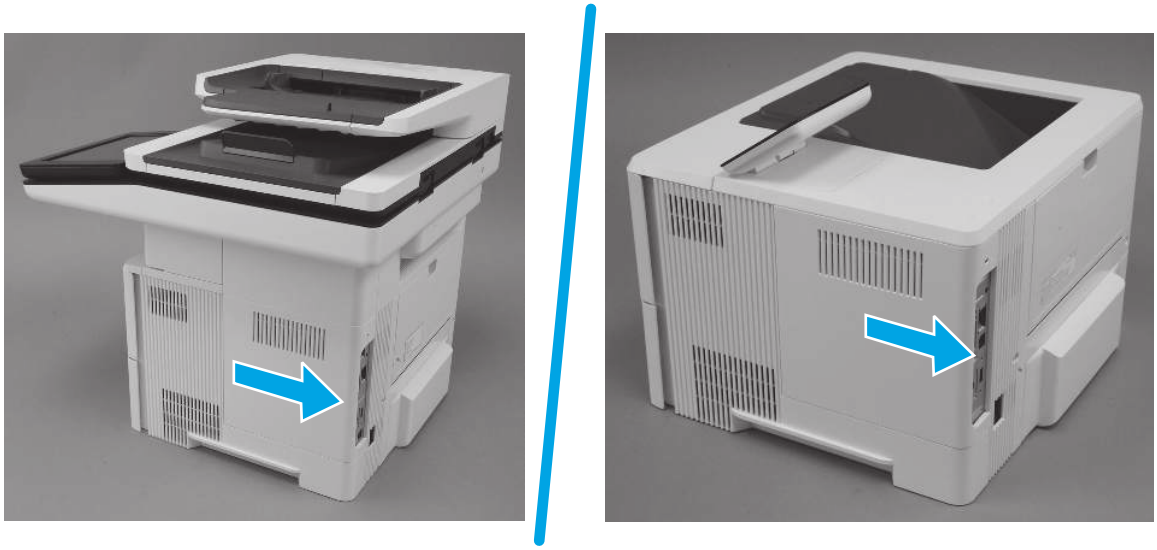
   - **M501**: Remove one screw (callout 1), and then slide the cover toward the rear of the printer to remove it (callout 2).

     Figure 1-1432 Remove the formatter cover (M501)

   - **M506/E50045/M507/E50145/M527/E52545/M528/E52645**: Slide the cover toward the rear of the printer to remove it.

Figure 1-1433 Remove the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)

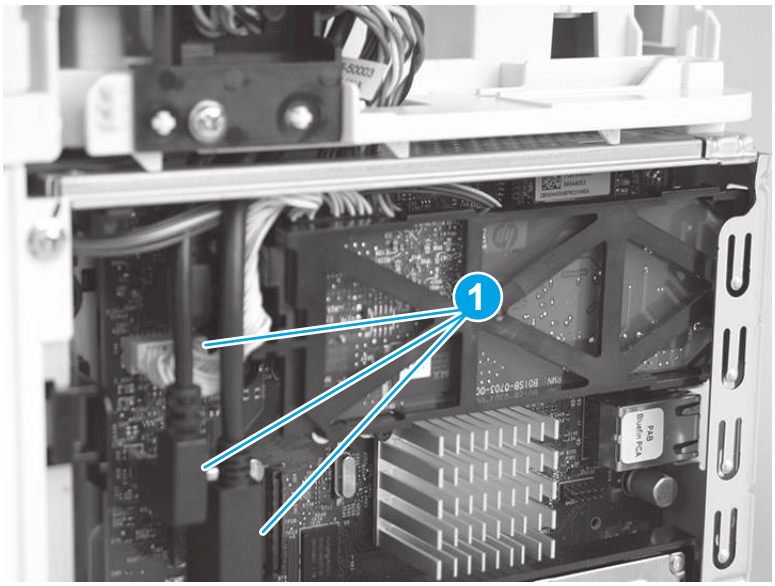


2. Remove the fax PCA (M527/E52545/M528/E52645 fax models).

⚠ CAUTION: ESD-sensitive part.

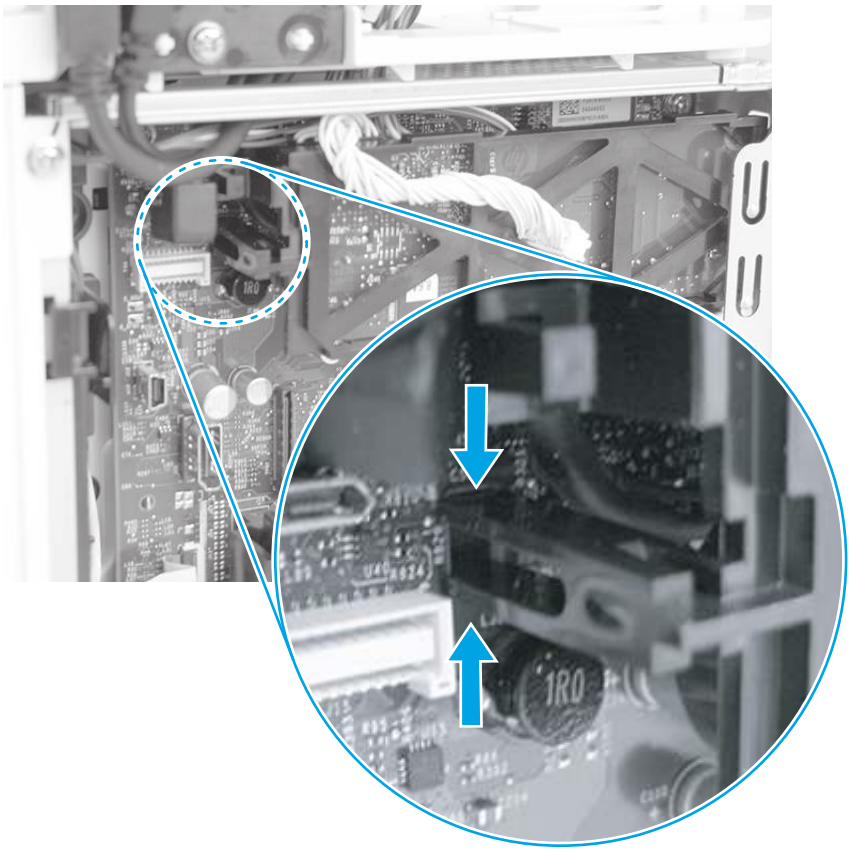
a. Disconnect three connectors (callout 1).

Figure 1-1434 Disconnect three connectors



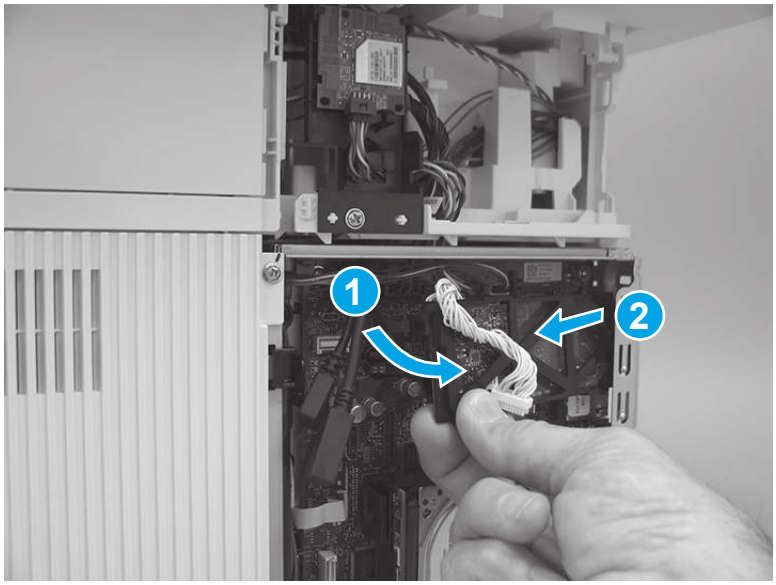
b. Pinch the retainer to release it.

Figure 1-1435 Release the fax PCA



c. Rotate the connector end of the fax PCA out and away from the formatter (callout 1), and then slide it as shown (callout 2) to remove it.

Figure 1-1436 Remove the fax PCA



3. Unpack the accessory

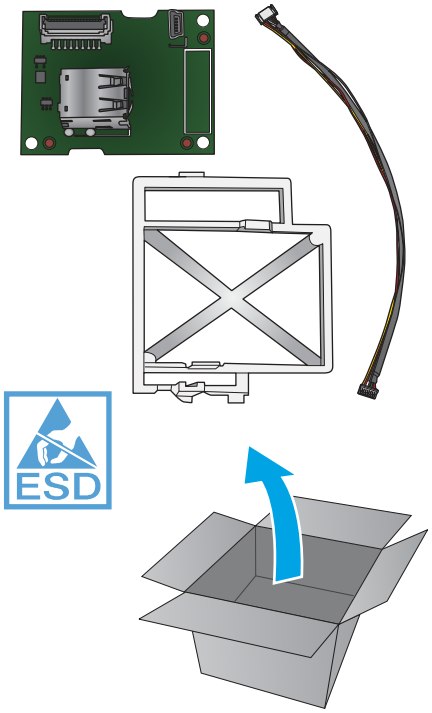
a. Dispose of the old part.

NOTE: HP recommends responsible disposal of the defective part.

b. Unpack the replacement part from the packaging.

http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

Figure 1-1437 Recycle and unpack

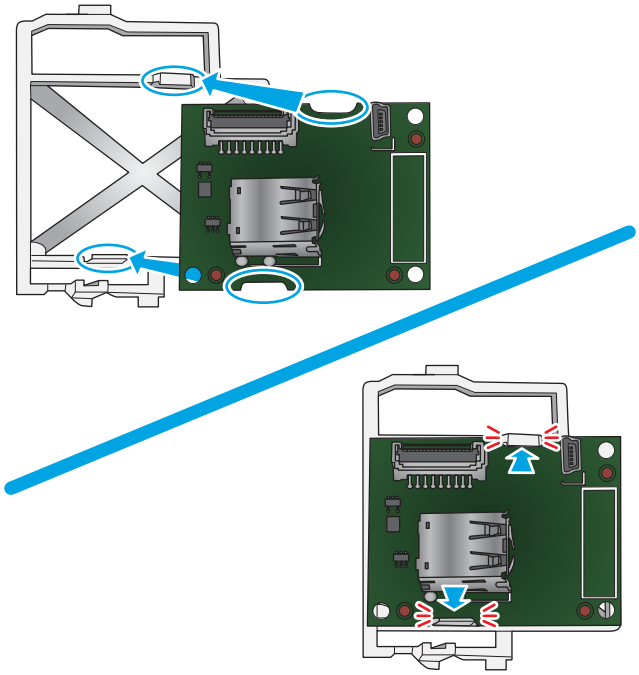


4. Install the internal USB ports module.

CAUTION: ESD-sensitive part.

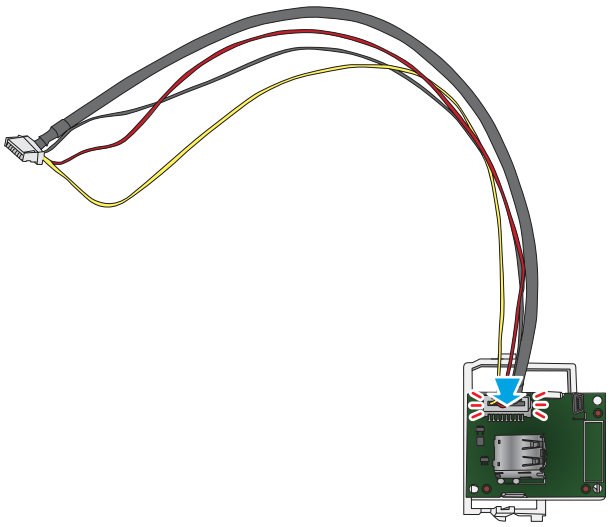
a. Position the notches on the internal USB ports PCA over the clips on the PCA holder and press down to attach the PCA to the holder. Make sure that the clips snap into place.

Figure 1-1438 Install the PCA in the holder



b. Connect the wire harness to the PCA.

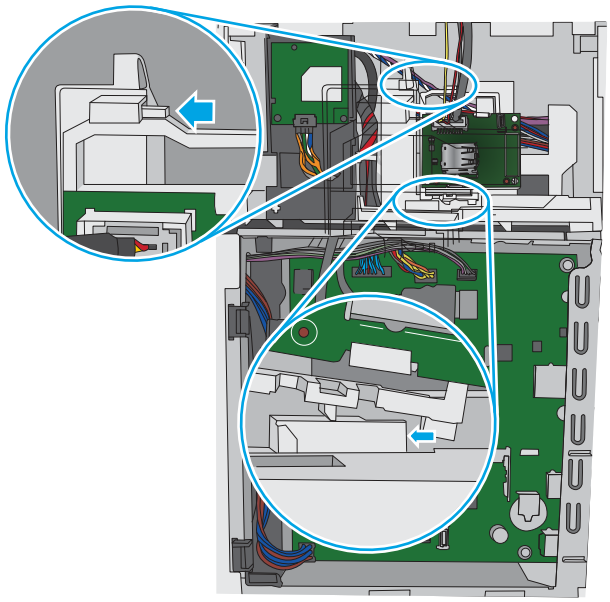
Figure 1-1439 Connect one cable



c. Position the PCA and bracket in the printer with the top tab aligned with the top slot (callout 1), and bottom edge of the bracket aligned with the bottom slot (callout 2).

NOTE: When correctly installed, the PCA and bracket are firmly held in place.

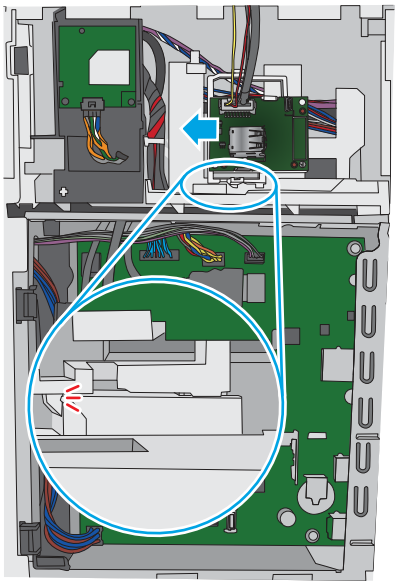
Figure 1-1440 Position the internal USB ports module



d. Slide the PCA and bracket to the left until the tab on the bottom edge snaps into place.

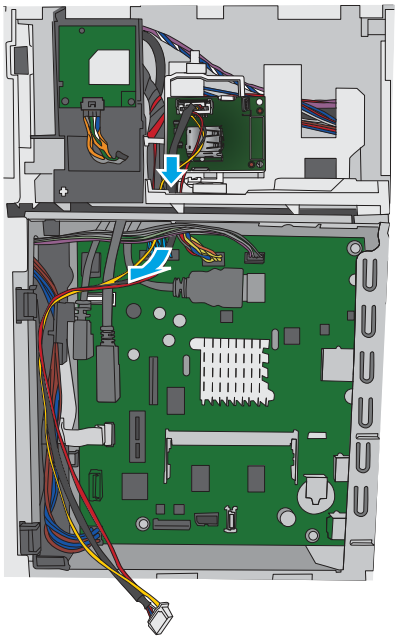
NOTE: When correctly installed, the PCA and bracket are firmly held in place.

Figure 1-1441 Install the internal USB ports module



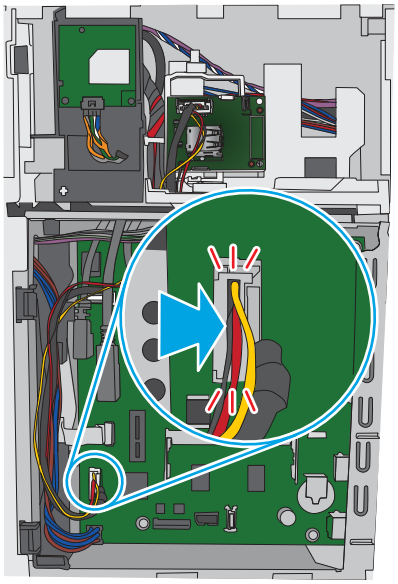
e. Pass the wire harness through the provided opening in the chassis.

Figure 1-1442 Install the wire harness



f. Connect one connector on the formatter.

Figure 1-1443 Connect one connector

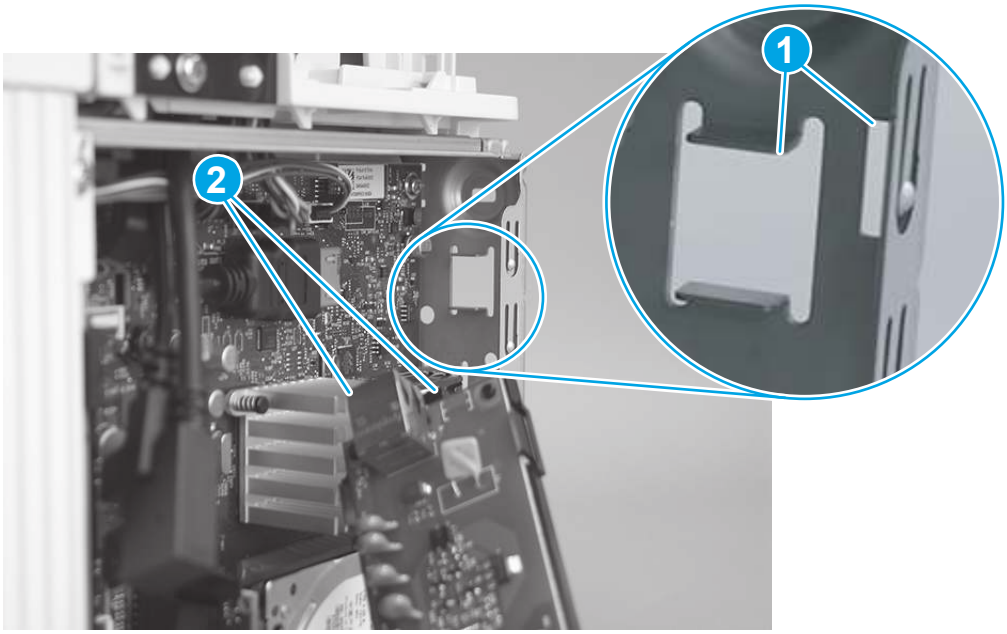


5. Install the fax PCA (M527/E52545/M528/E52645 fax models).

⚠ CAUTION: ESD-sensitive part.

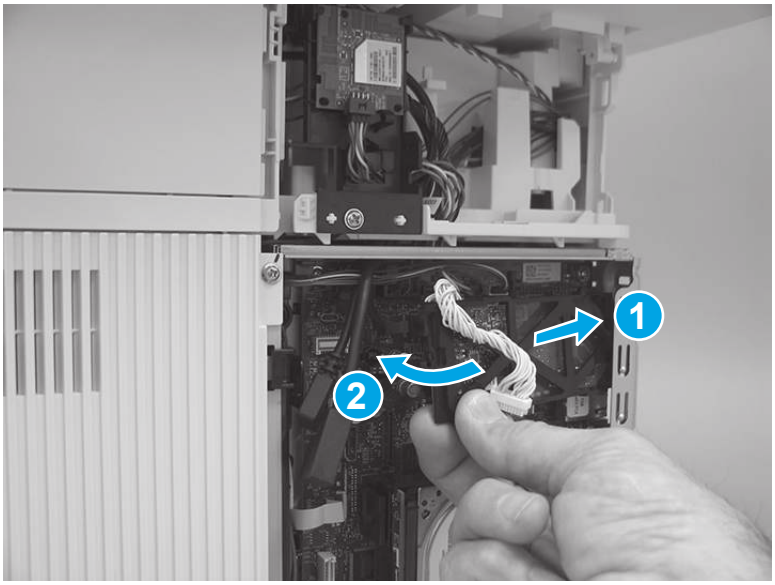
a. Before proceeding, take note of the location of the slots (callout 1) in the sheet-metal where the fax PCA cradle mounting tab and fax port (callout 2) must be installed.

Figure 1-1444 Locate the slots in the sheet-metal



b. Insert the fax PCA cradle mounting tab and fax port in the slots in the sheet-metal plate (callout 1), and then rotate the connector end of the fax PCA toward the formatter (callout 2).

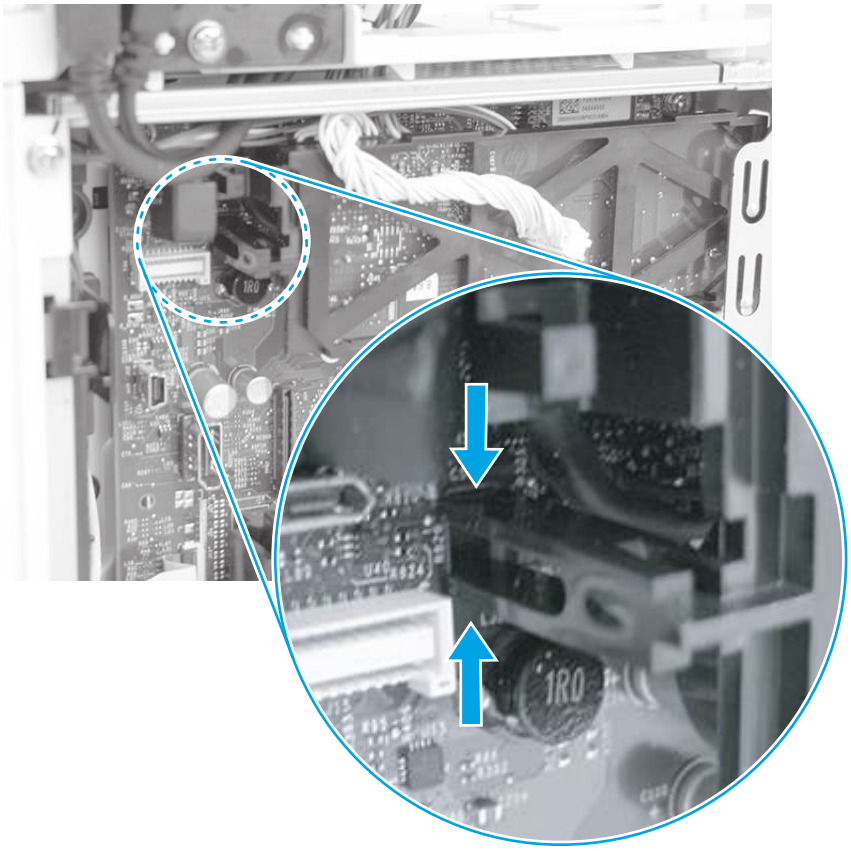
Figure 1-1445 Install the fax PCA



c. Engage the retainer with the slot in the formatter.

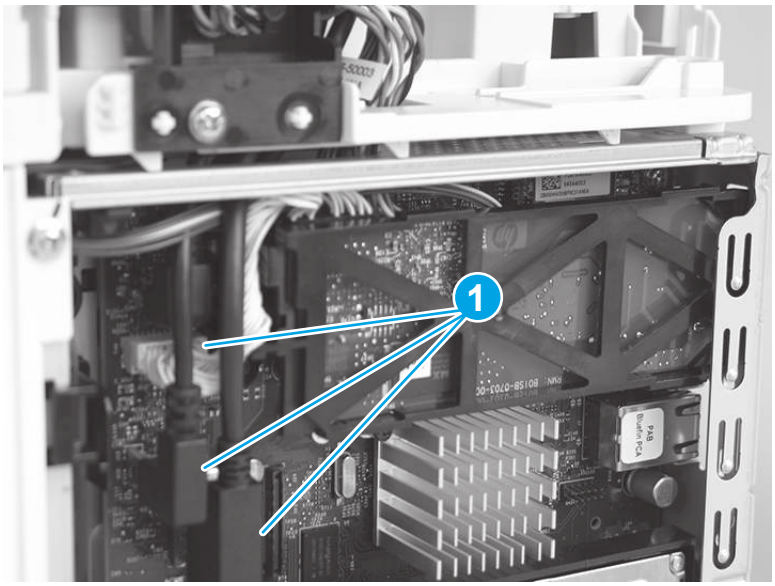
Reinstallation tip: Pinch the retainer to easily engage it with the slot.

Figure 1-1446 Engage the fax PCA



d. Connect three connectors (callout 1).

Figure 1-1447 Connect three connectors

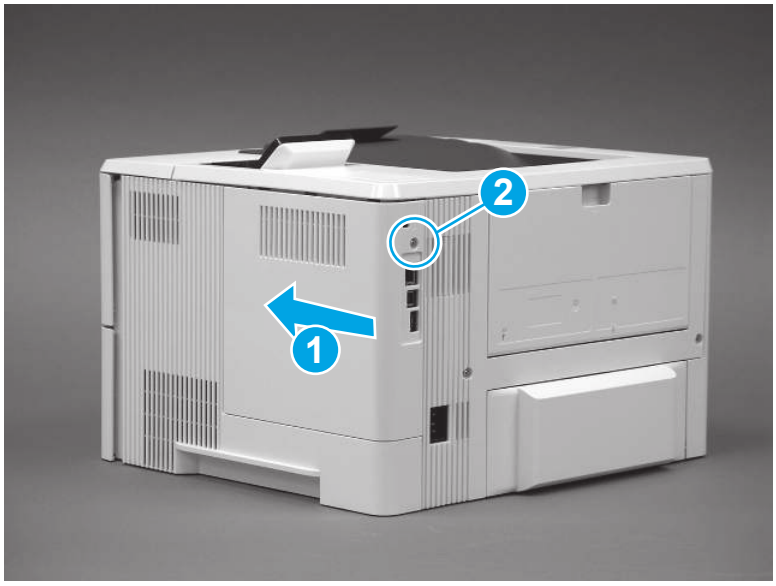


6. Install the formatter cover.

▲ Do one of the following:

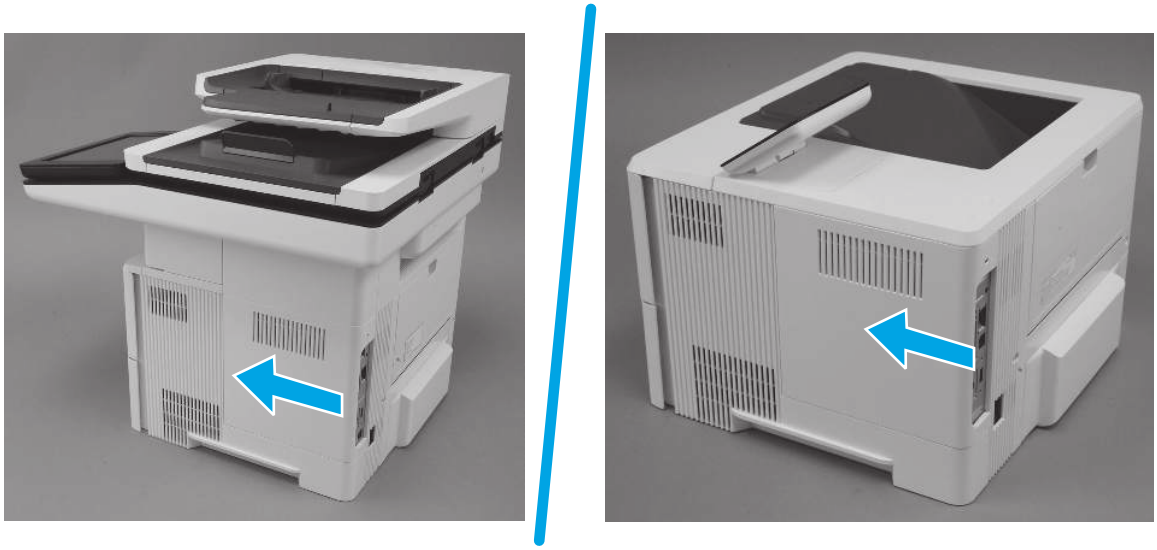
- **M501**: Slide it toward the front of the printer to install it (callout 1), and then install one screw (callout 2).

  Figure 1-1448 Install the formatter cover (M501)

- **M506/E50045/M507/E50145/M527/E52545/M528/E52645**: Slide it toward the front of the printer to install it.

  Figure 1-1449 Install the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)

Install accessory: Internal USB ports (M506/E50045)

Learn how to remove and replace the internal USB ports.

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the internal USB ports.

Mean time to repair: 7 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

WARNING! To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

CAUTION: This part contains components that are electrostatic discharge (ESD) sensitive. To reduce the possibility of ESD damage, always touch the sheet-metal chassis to ground yourself before touching an ESD sensitive part.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-52 Part information

Part number	Part description
F2A87A	Internal USB ports (M506/E50045)

Required tools

- No special tools are required to remove or install this assembly.

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

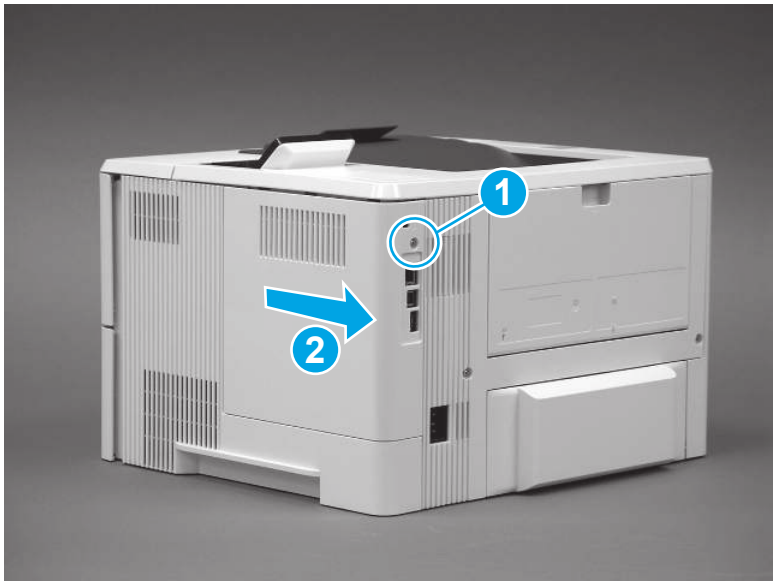
No post service test is available for this assembly.

1. Remove the formatter cover.

   ▲ Do one of the following:

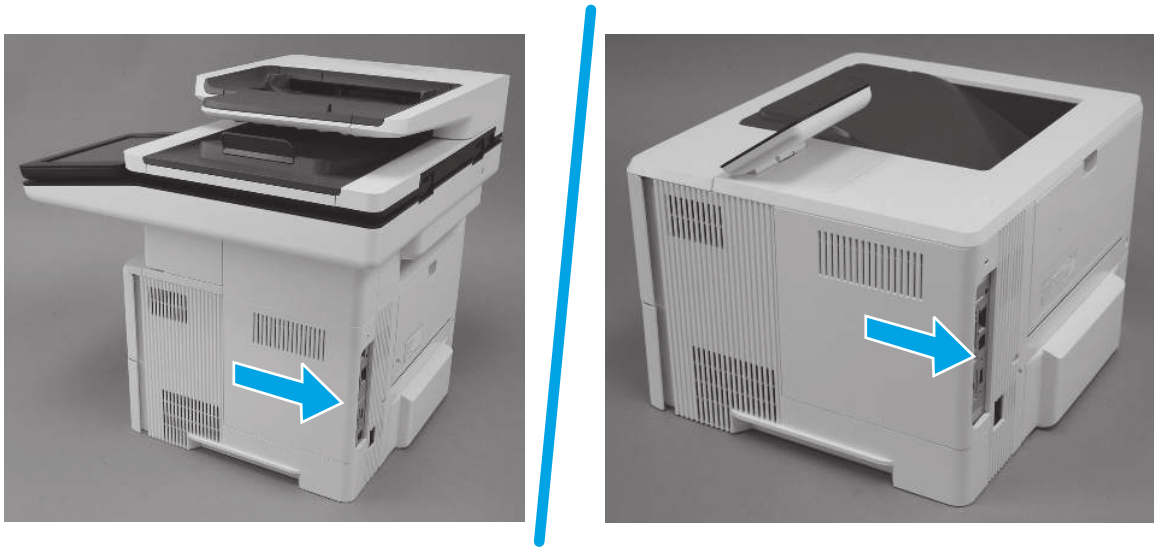
   - M501: Remove one screw (callout 1), and then slide the cover toward the rear of the printer to remove it (callout 2).

Figure 1-1450 Remove the formatter cover (M501)



- M506/E50045/M507/E50145/M527/E52545/M528/E52645: Slide the cover toward the rear of the printer to remove it.

  Figure 1-1451 Remove the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)



2. Unpack the accessory.

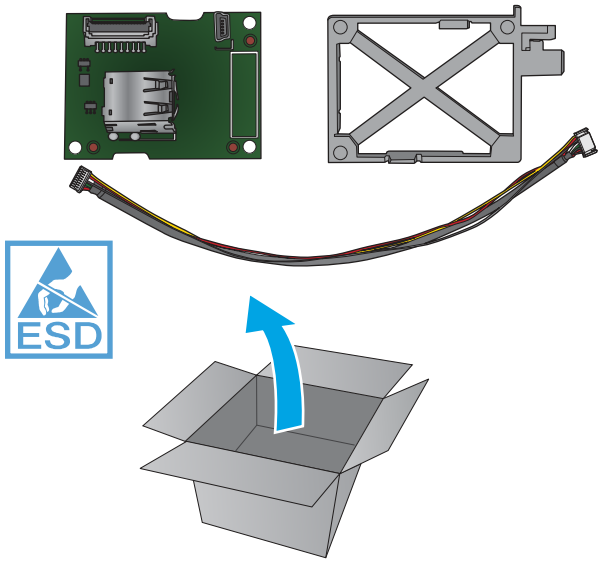
   a. Dispose of the old part.

   NOTE: HP recommends responsible disposal of the defective part.

   b. Unpack the replacement part from the packaging.

   http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

Figure 1-1452 Recycle and unpack

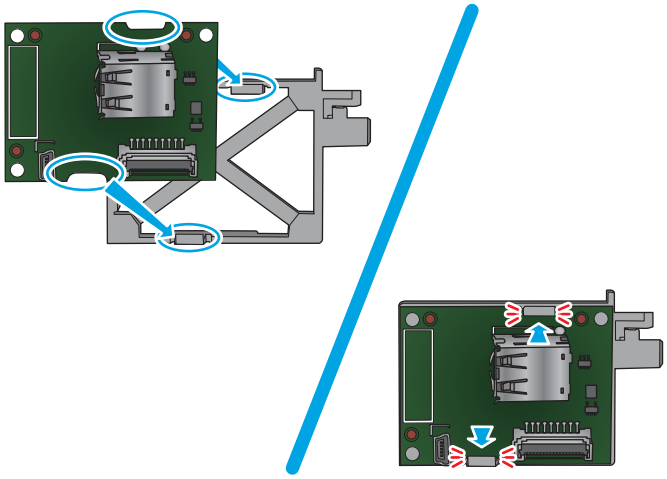


3. Install the internal USB ports module.

CAUTION: ESD-sensitive part.

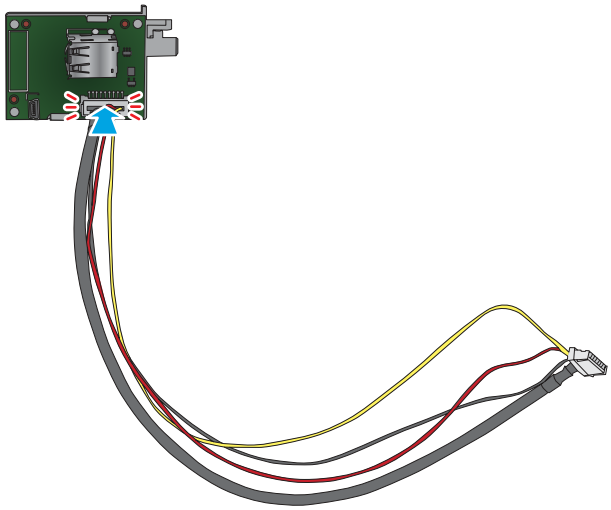
a. Position the notches on the internal USB ports PCA over the clips on the PCA holder and press down to attach the PCA to the holder. Make sure that the clips snap into place.

Figure 1-1453 Install the PCA in the holder



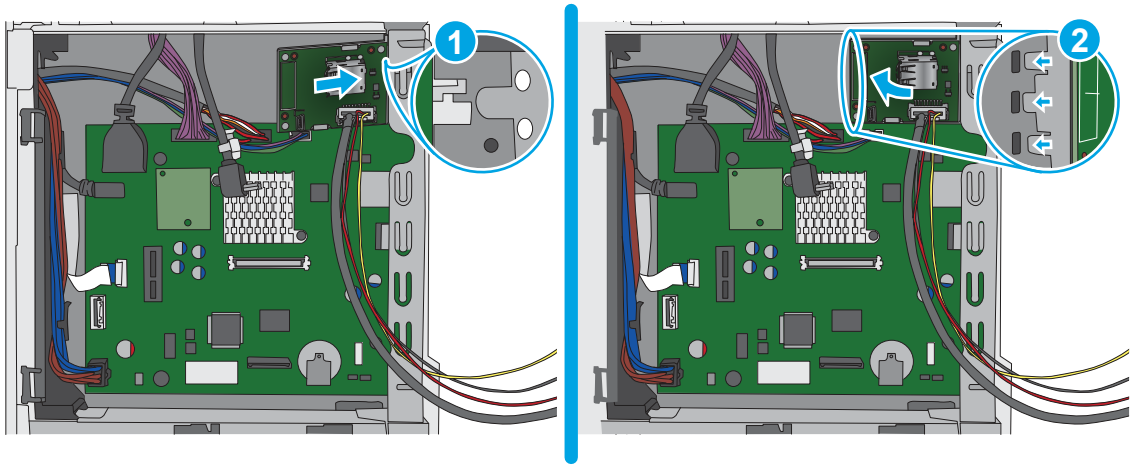
b. Connect the wire harness to the PCA.

Figure 1-1454 Connect the wire harness



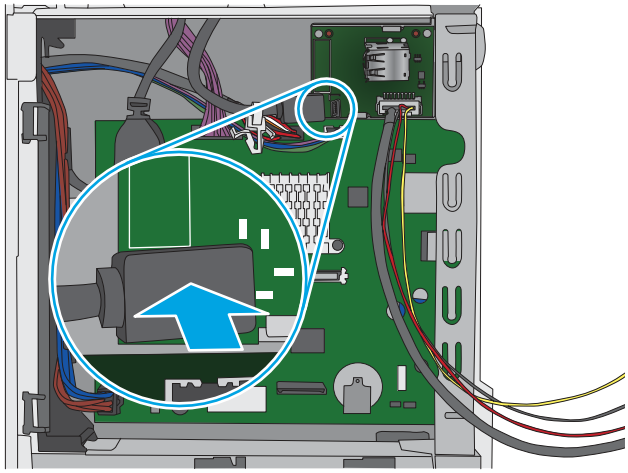
c. Position the tab on the PCA bracket in the slot on the formatter cage (callout 1), and then rotate the left end of the bracket toward the formatter to engage three tabs (callout 2).

Figure 1-1455 Install the internal USB ports module



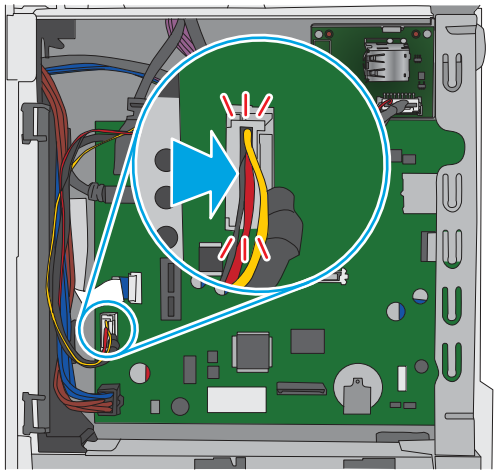
d. Connect one connector on the USB PCA.

Figure 1-1456 Connect one connector



e. Connect one connector on the formatter.

Figure 1-1457 Connect one connector

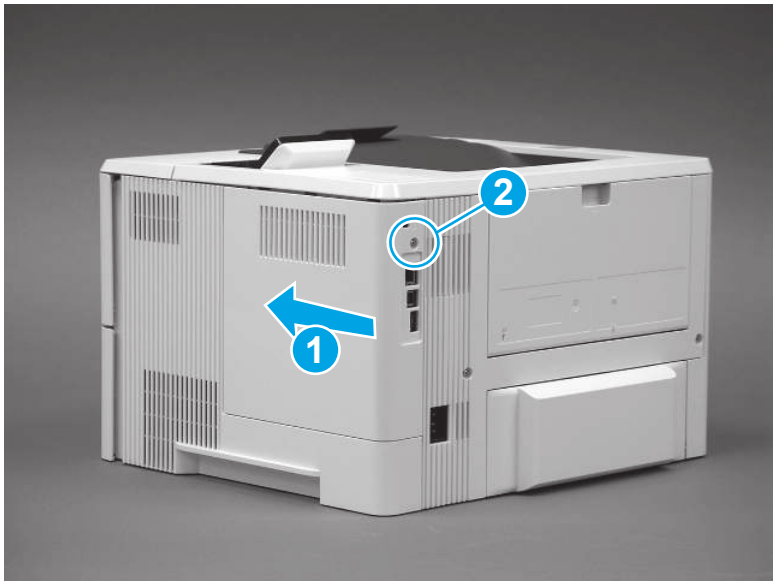


4. Install the formatter cover.

▲ Do one of the following:

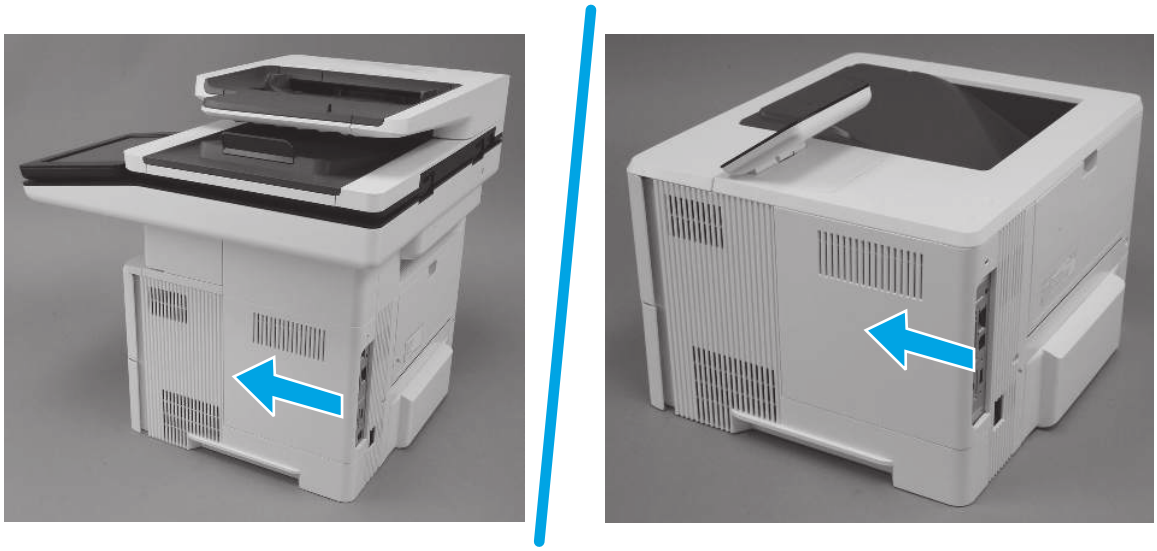
- M501: Slide it toward the front of the printer to install it (callout 1), and then install one screw (callout 2).

Figure 1-1458 Install the formatter cover (M501)



- M506/E50045/M507/E50145/M527/E52545/M528/E52645: Slide it toward the front of the printer to install it.

  Figure 1-1459 Install the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)



Install accessory: Internal USB ports (M507/E50145)

Learn how to remove and replace the internal USB ports.

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the internal USB ports.

Mean time to repair: 7 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

> ⚠ **WARNING!** To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

> ⚠ **CAUTION:** This part contains components that are electrostatic discharge (ESD) sensitive. To reduce the possibility of ESD damage, always touch the sheet-metal chassis to ground yourself before touching an ESD sensitive part.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-53 Part information

Part number	Part description
1PV95A	Internal USB ports (M507/E50145)

Required tools

- No special tools are required to remove or install this assembly.

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

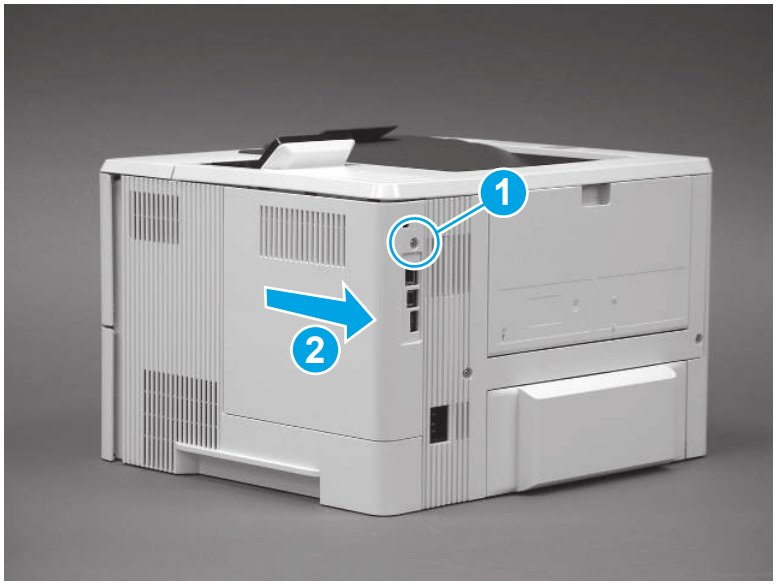
No post service test is available for this assembly.

1. Remove the formatter cover.

   ▲ Do one of the following:

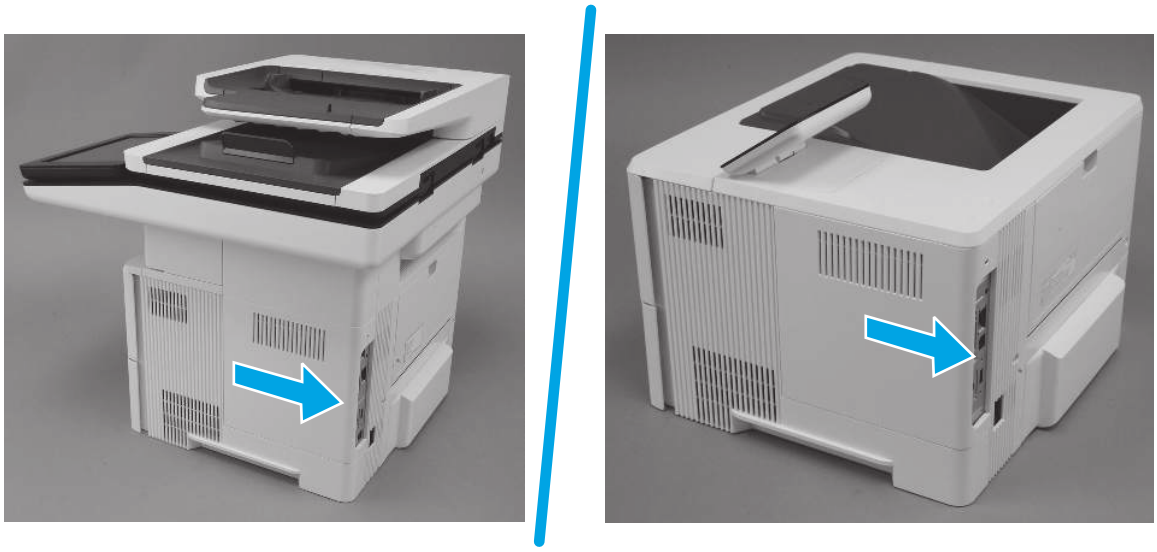
   - M501: Remove one screw (callout 1), and then slide the cover toward the rear of the printer to remove it (callout 2).

Figure 1-1460 Remove the formatter cover (M501)



- M506/E50045/M507/E50145/M527/E52545/M528/E52645: Slide the cover toward the rear of the printer to remove it.

  Figure 1-1461 Remove the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)



2. Unpack the accessory.

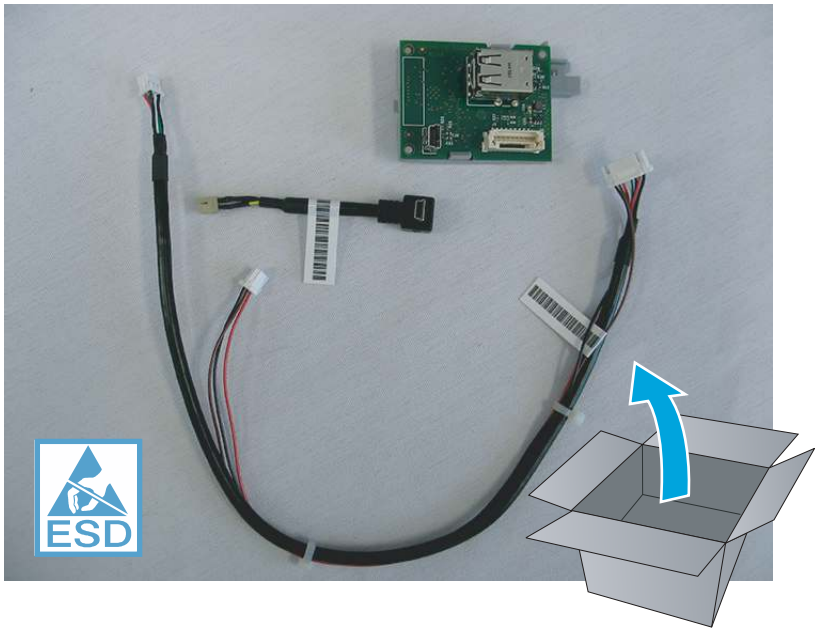
   a. Dispose of the old part.

   NOTE: HP recommends responsible disposal of the defective part.

   b. Unpack the replacement part from the packaging.

   http://www8.hp.com/us/en/hp-information/environment/product-recycling.html

Figure 1-1462 Unpack and recycle

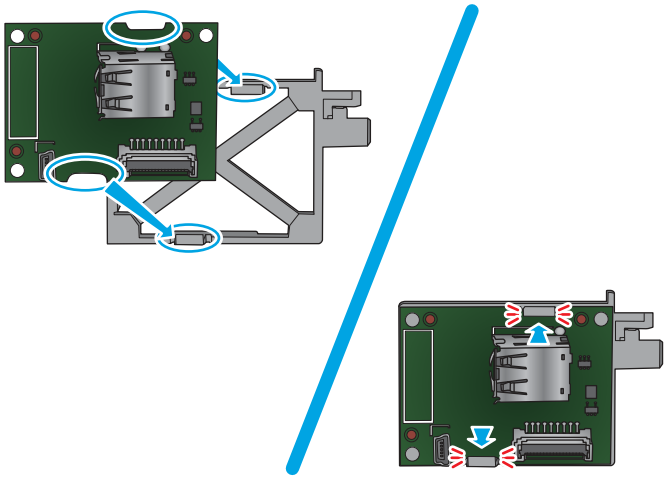


3. Install the internal USB ports module.

CAUTION: ESD-sensitive part.

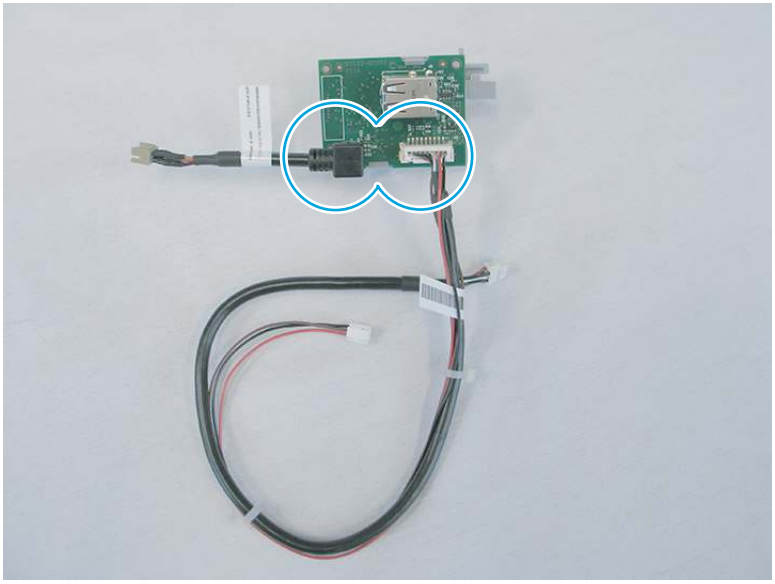
a. Position the notches on the internal USB ports PCA over the clips on the PCA holder and press down to attach the PCA to the holder. Make sure that the clips snap into place.

Figure 1-1463 Install the PCA in the holder



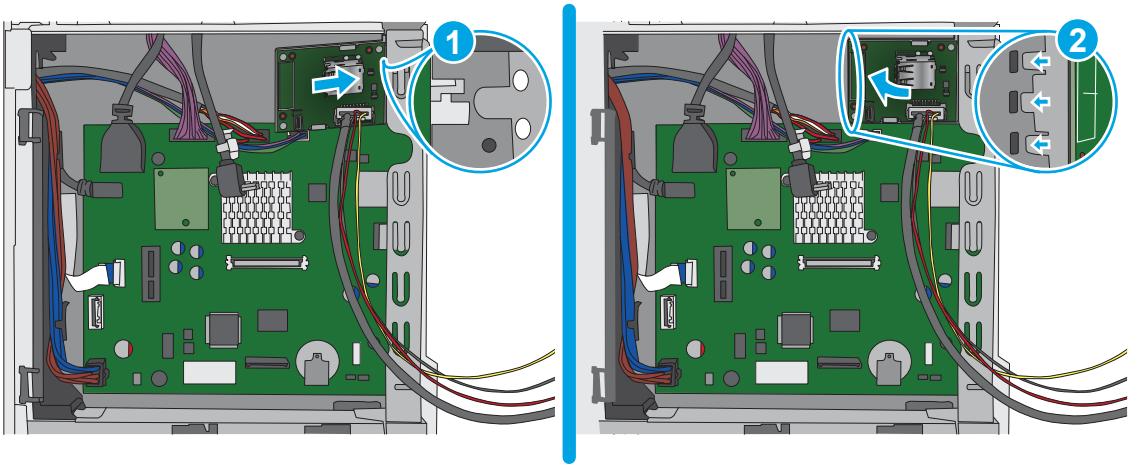
b. Connect the wire harnesses to the PCA.

Figure 1-1464 Connect the wire harnesses



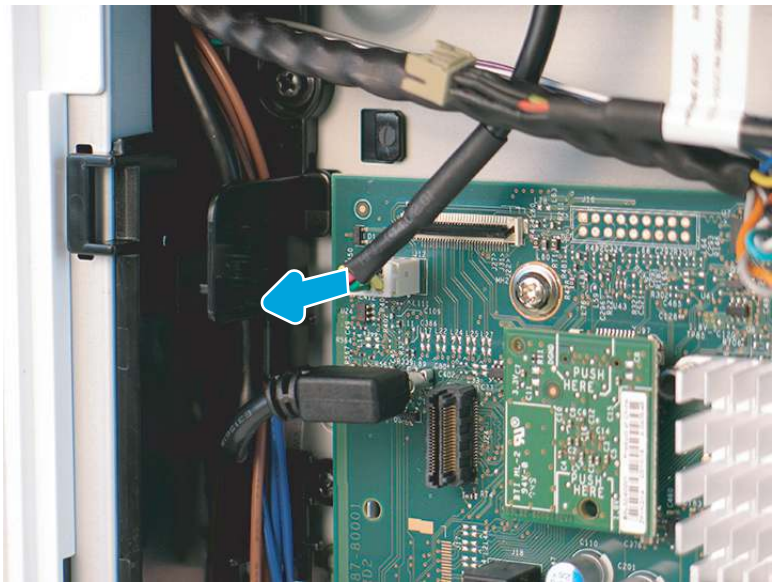
c. Position the tab on the PCA bracket in the slot on the formatter cage (callout 1), and then rotate the left end of the bracket toward the formatter to engage three tabs (callout 2).

Figure 1-1465 Install the internal USB ports module



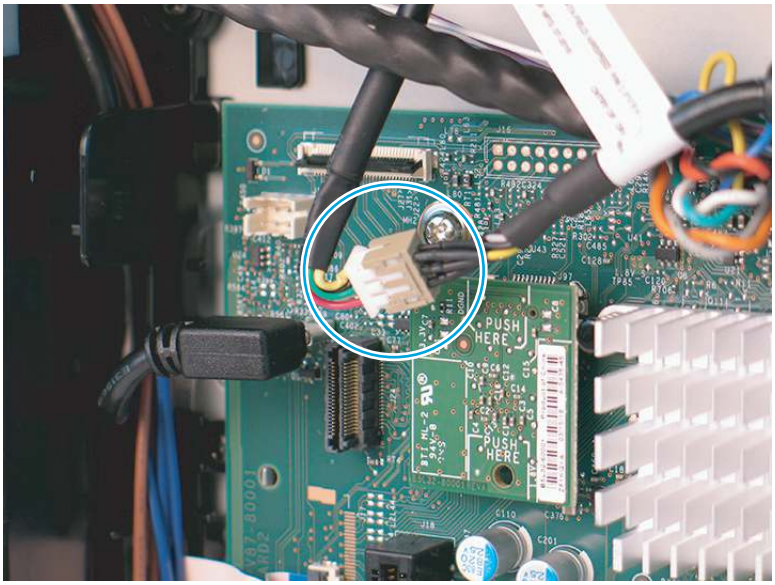
d. Disconnect one connector.

Figure 1-1466 Disconnect one connector



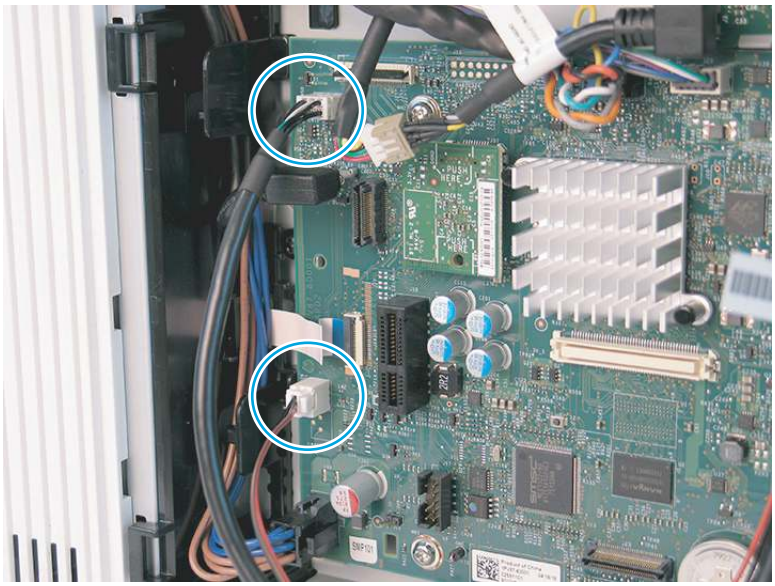
e. Connect one connector (short wire harness from internal USB ports to formatter).

Figure 1-1467 Connect one connector



f. Connect two connectors (long wire harness from internal USB ports to formatter).

Figure 1-1468 Connect two connectors

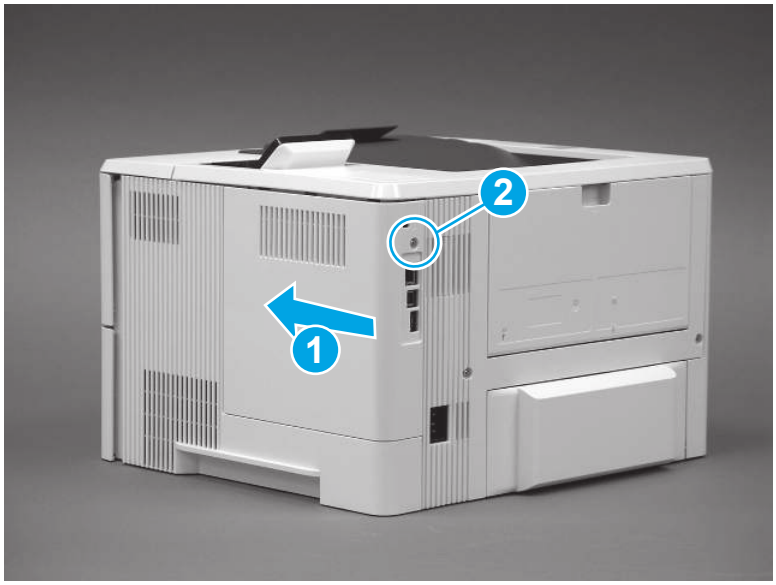


4. Install the formatter cover.

▲ Do one of the following:

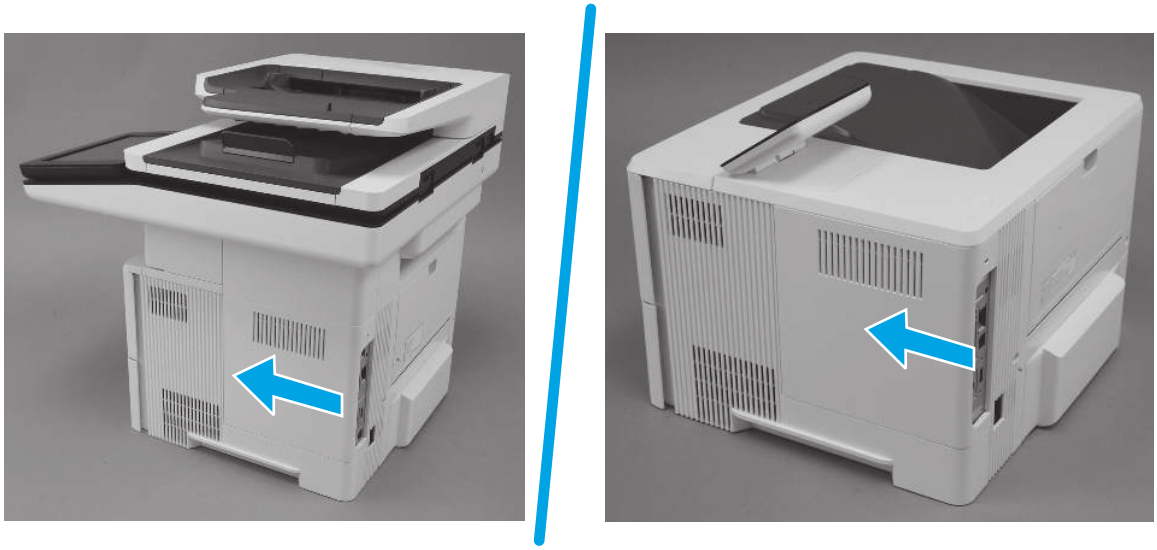
- M501: Slide it toward the front of the printer to install it (callout 1), and then install one screw (callout 2).

Figure 1-1469 Install the formatter cover (M501)



- M506/E50045/M507/E50145/M527/E52545/M528/E52645: Slide it toward the front of the printer to install it.

Figure 1-1470 Install the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)



Install accessory: Trusted platform module (TPM)

Learn how to remove and replace the trusted platform module (TPM).

To view a short video of this procedure, click the link below.

View a video of how to remove and replace the TPM.

Mean time to repair: 7 minutes

Service level: Easy

Before performing service

Turn the printer power off

- Disconnect the power cable.

⚠ **WARNING!** To avoid damage to the printer, turn the printer off, wait 30 seconds, and then remove the power cord before attempting to service the printer.

⚠ **CAUTION:** This part contains components that are electrostatic discharge (ESD) sensitive. To reduce the possibility of ESD damage, always touch the sheet-metal chassis to ground yourself before touching an ESD sensitive part.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts.

Table 1-54 Part information

Part number	Part description
F5S62-61001	Trusted platform module (TPM)

Required tools

No special tools are required to remove or install this assembly.

After performing service

Turn the printer power on

- Connect the power cable.
- Use the power switch to turn the power on.

Post service test

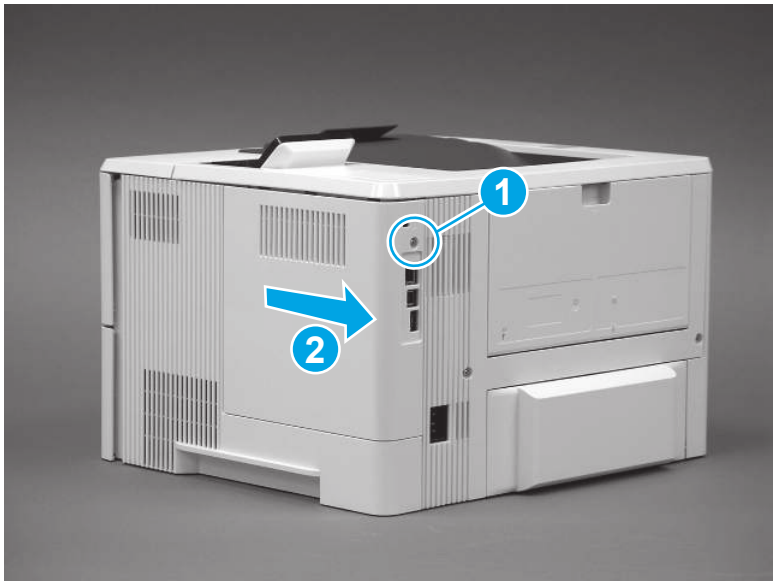
Make sure that the printer initializes to a **Ready** state.

1. Remove the formatter cover.

   ▲ Do one of the following:

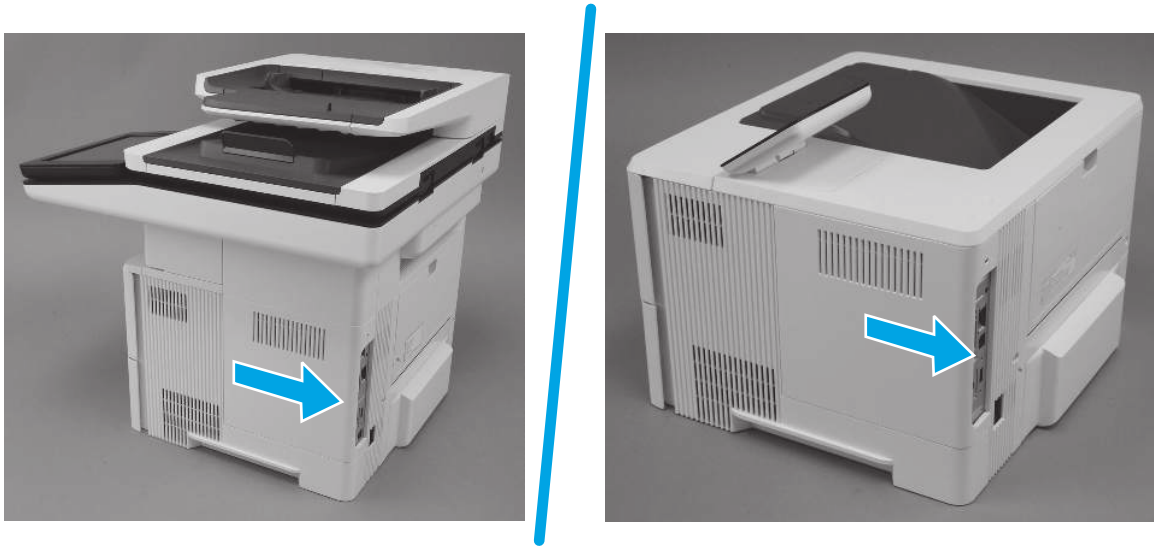
   - **M501**: Remove one screw (callout 1), and then slide the cover toward the rear of the printer to remove it (callout 2).

     Figure 1-1471 Remove the formatter cover (M501)

   - **M506/E50045/M507/E50145/M527/E52545/M528/E52645**: Slide the cover toward the rear of the printer to remove it.

Figure 1-1472 Remove the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)

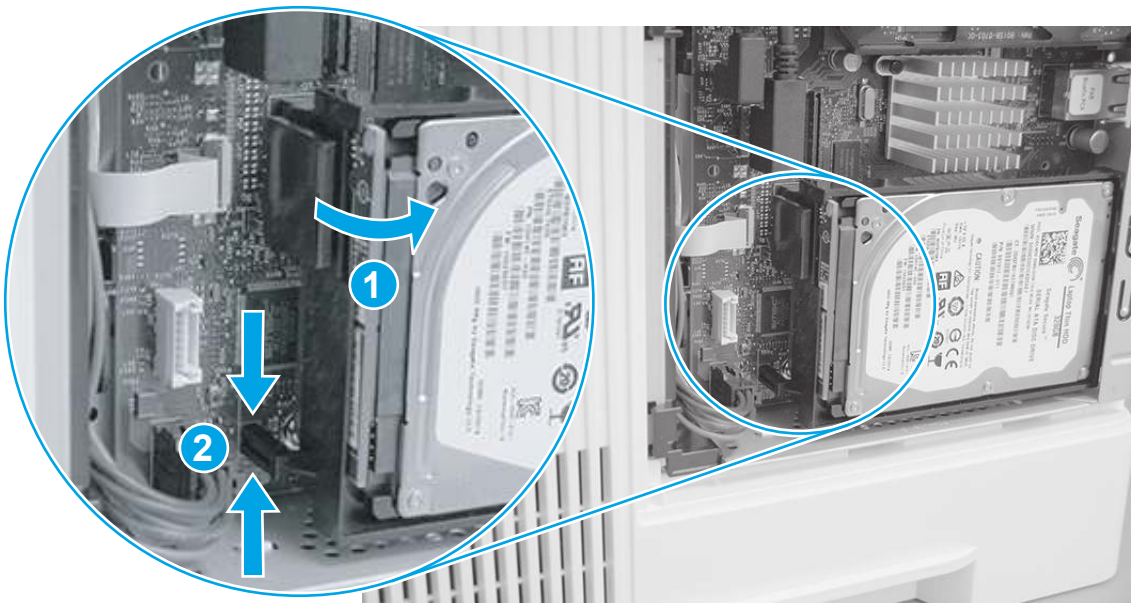


2. Remove the hard-disk drive (HDD models).

CAUTION: ESD sensitive part.

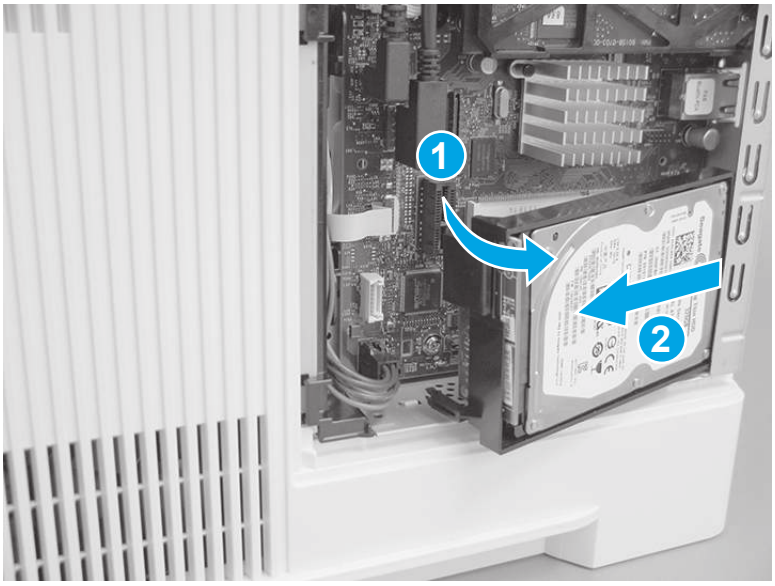
a. Release the locking connector (callout 1), and then pinch the retainer (callout 2) to release it.

Figure 1-1473 Release the HDD



b. Rotate the connector end of the HDD out and away from the formatter (callout 1), and then slide it as shown (callout 2) to remove it.

Figure 1-1474 Remove the HDD



3. Remove the accessory from its package.

   a. Save all packaging for recycling.

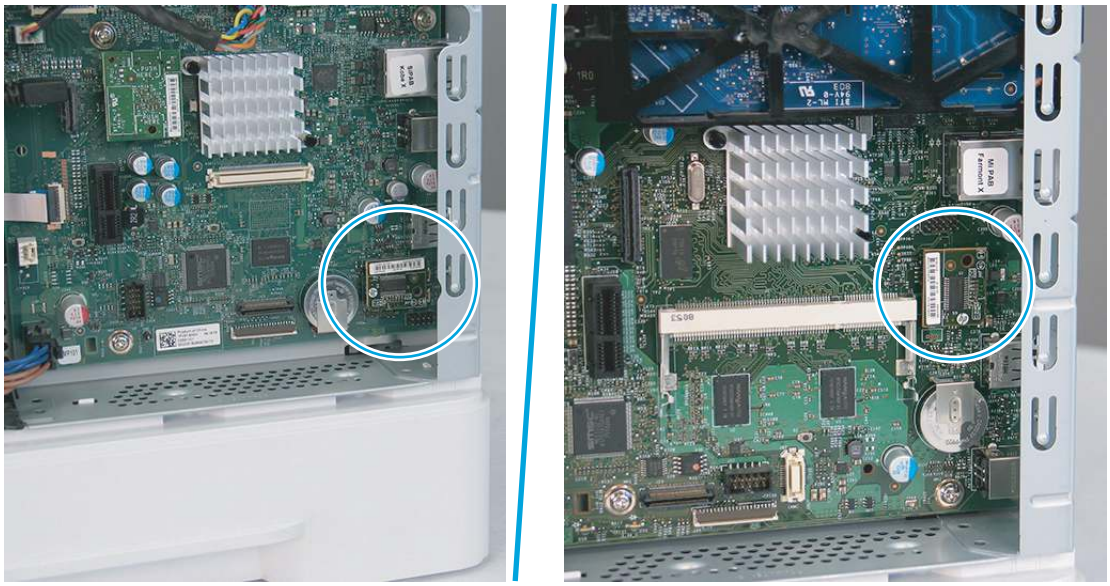
   b. For complete information about HP recycling programs, go to http://www8.hp.com/us/en/hp-information/environment/product-recycling.html.

4. Install the TPM.

⚠ CAUTION: ESD-sensitive part.

a. Note the location on the formatter of an installed TPM (M507/E50145 right; M528/E52645 left).

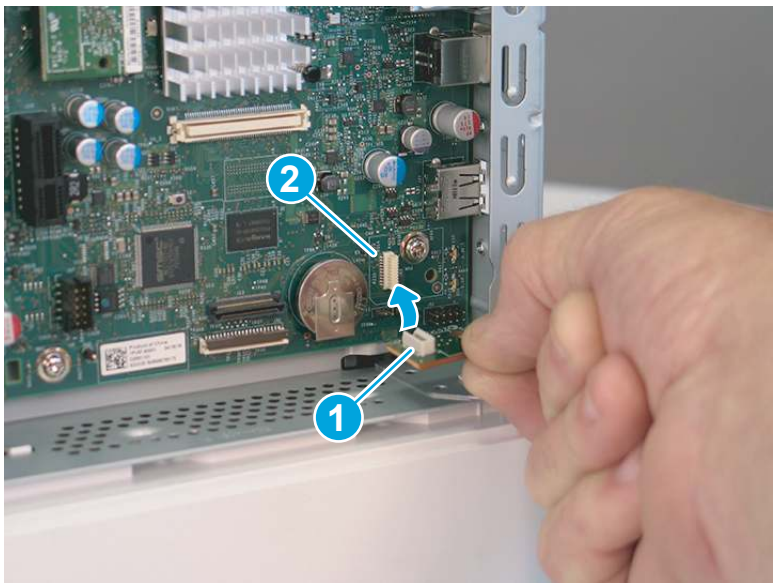
Figure 1-1475 TPM location (M507/E50145/M528/E52645)



b. **M507/E50145 only**: Align the connector on the TPM (callout 1) with the connector on the formatter (callout 2).

NOTE: The TPM can only be installed in one direction on the formatter.

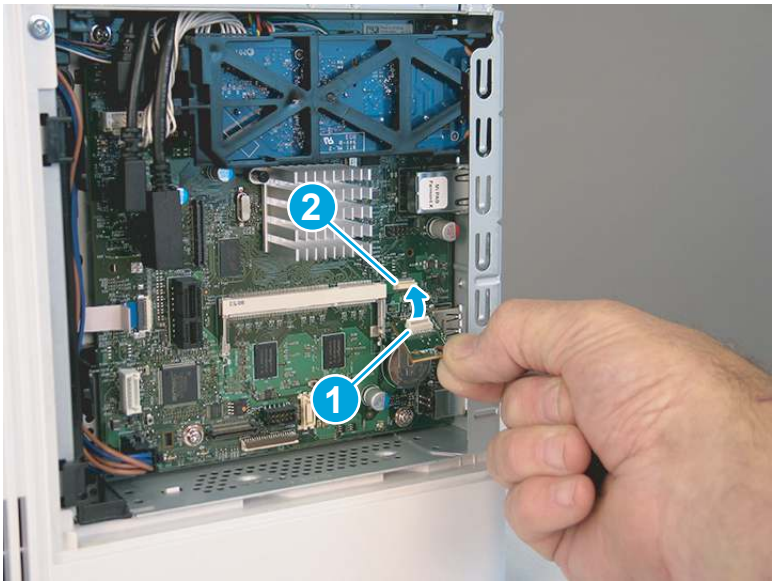
Figure 1-1476 Align the connectors (M507/E50145)



c. **M528/E52645 only**: Align the connector on the TPM (callout 1) with the connector on the formatter (callout 2).

NOTE: The TPM can only be installed in one direction on the formatter.

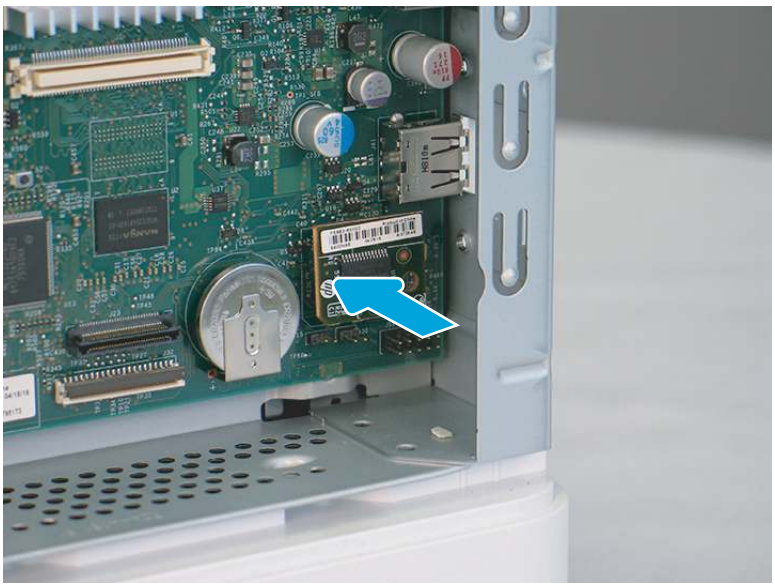
Figure 1-1477 Align the connectors (M528/E52645)



d. **M507/E50145 only**: Push the TPM onto the formatter to install it.

IMPORTANT: Press on the TPM at the connector to make sure it is fully seated on the formatter connector.

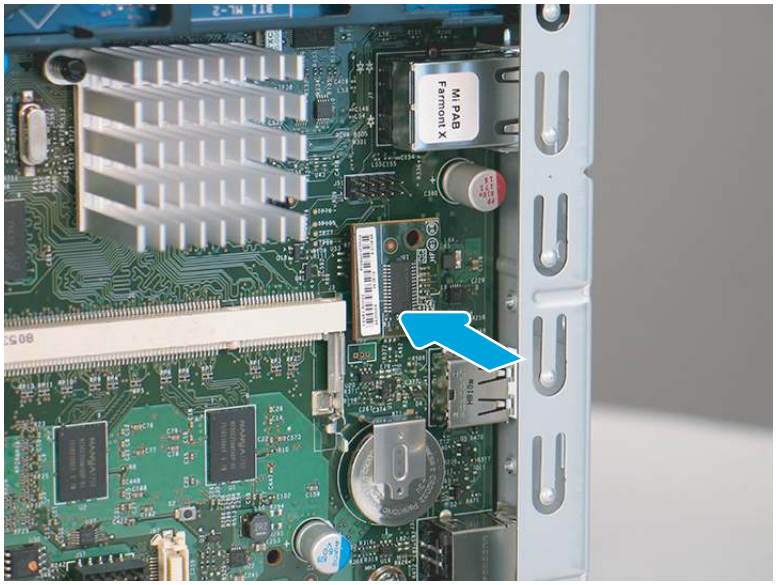
Figure 1-1478 Install the TPM (M507/E50145)



e. **M528/E52645 only**: Push the TPM onto the formatter to install it.

IMPORTANT: Press on the TPM at the connector to make sure it is fully seated on the formatter connector.

Figure 1-1479 Install the TPM (M528/E52645)



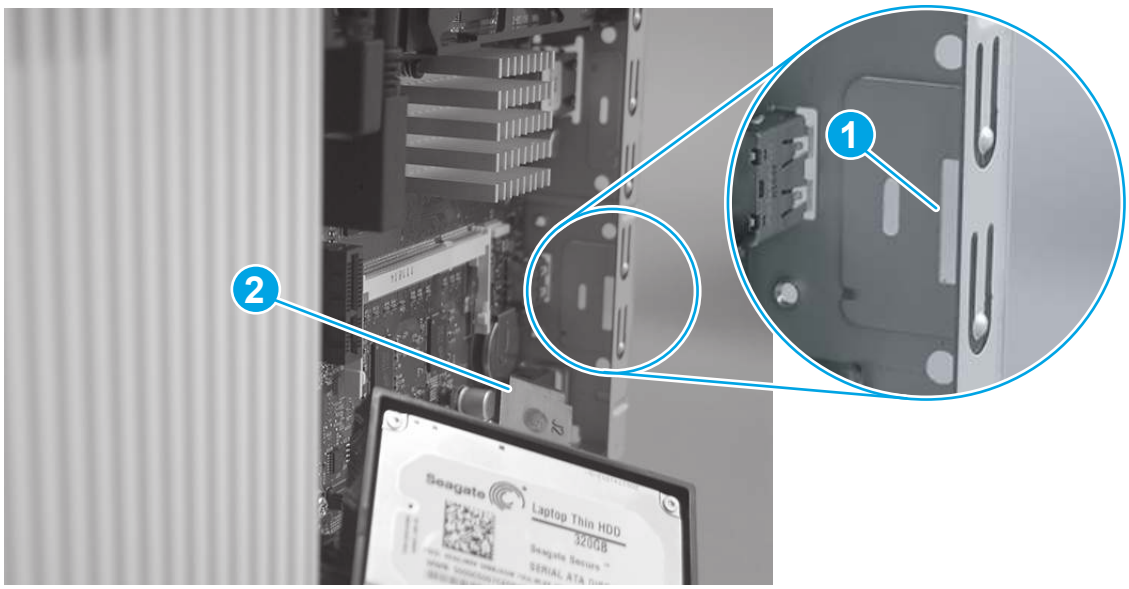
5. Install the HDD (HDD models).

⚠ CAUTION: ESD sensitive part.

a. Before proceeding, take note of the location of the slot (callout 1) in the sheet-metal where the HDD cradle mounting tab (callout 2) must be installed.

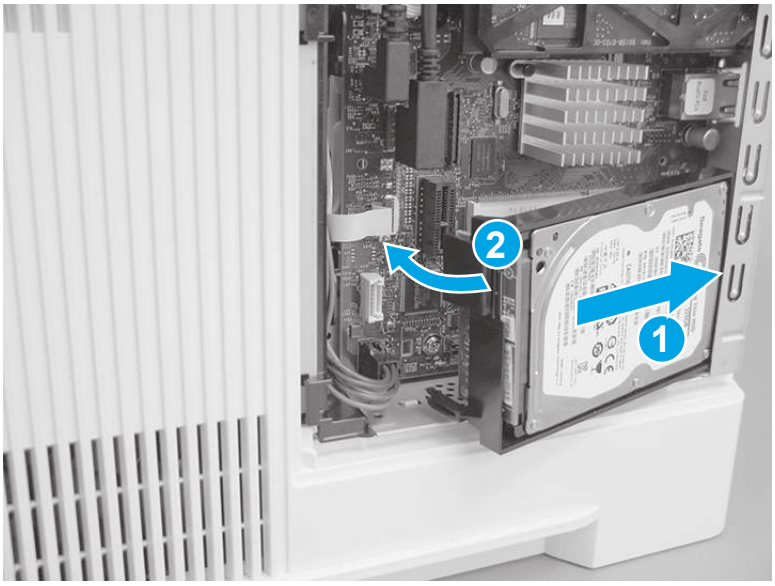
⚠ CAUTION: This portion of the sheet-metal is a knock-out plate (callout 1). Do not push on it with sufficient force to detach it when installing the HDD.

Figure 1-1480 Locate the slot in the sheet-metal



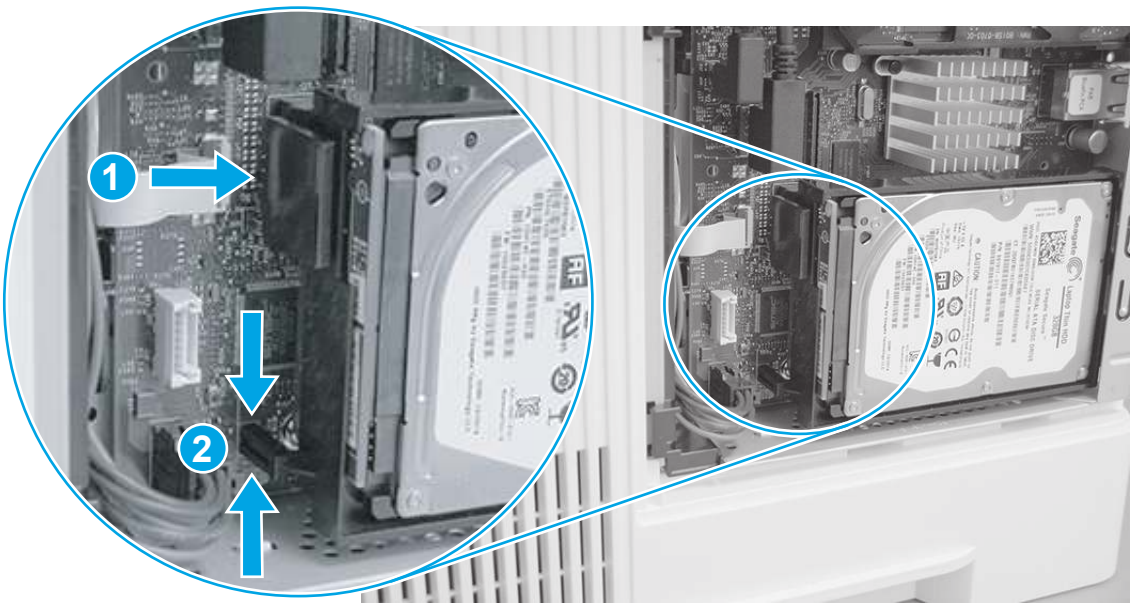
b. Insert the HDD cradle mounting tab in the slot in the sheet-metal (callout 1), and then rotate the connector end (callout 2) of the HDD toward the formatter.

Figure 1-1481 Install the HDD



c. Make sure that the locking connector (callout 1) latches and that the standoff (callout 2) engages with the slot in the formatter (it might be necessary to pinch the retainer to engage it with the slot).

Figure 1-1482 Install the HDD

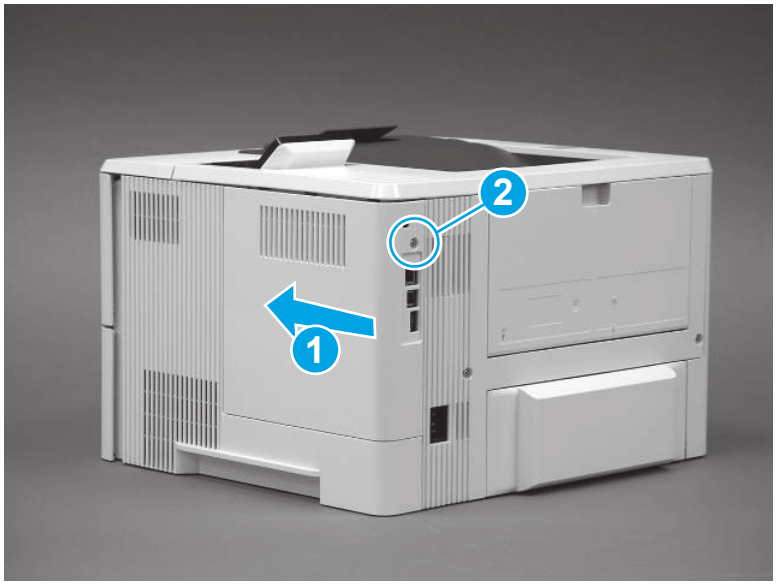


6. Install the formatter cover.

▲ Do one of the following:

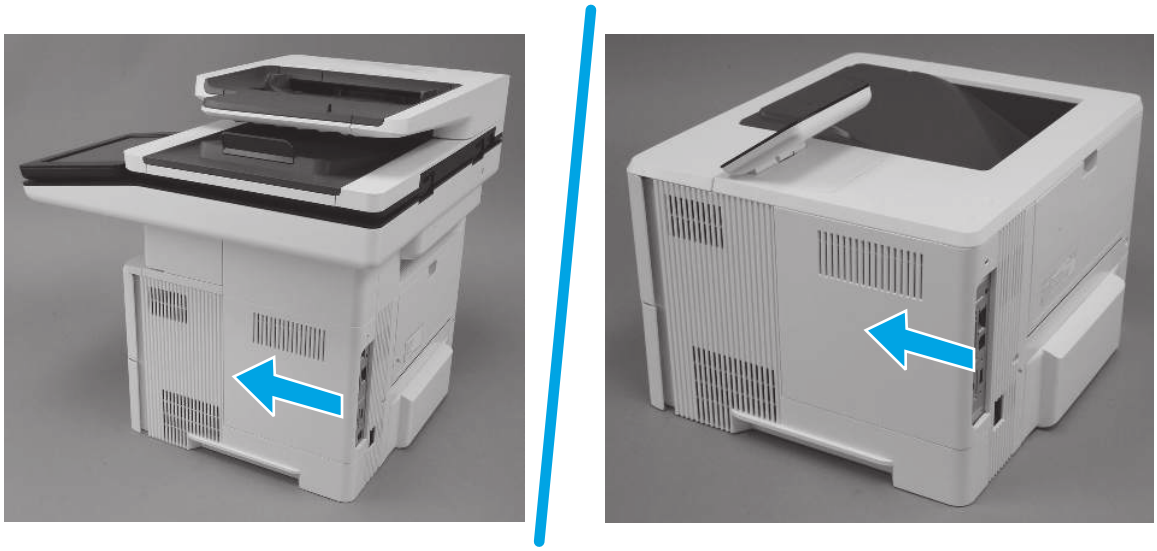
- M501: Slide it toward the front of the printer to install it (callout 1), and then install one screw (callout 2).

Figure 1-1483 Install the formatter cover (M501)



- M506/E50045/M507/E50145/M527/E52545/M528/E52645: Slide it toward the front of the printer to install it.

Figure 1-1484 Install the formatter cover (M506/E50045/M507/E50145/M527/E52545/M528/E52645)



2 Parts and diagrams

Printer parts information including exploded assembly diagrams and part number lists.

HP service and support

Learn about HP access to additional service and support information.

Additional service and support for channel partners

Channel partners go to partner.hp.com, and then use the steps below to access the HP Web-based Interactive Search Engine (WISE).

View a video of how to use the HP Partner First Portal to access WISE.

Access WISE for Channel partners

1. Select Services & Support (near the top of the screen).
2. Under Services Delivery, select Technical Support.
3. Select Technical Documentation.

Find information about the following topics

- Service manuals
- Service advisories
- Up-to-date control panel message (CPMD) troubleshooting
- Solutions for printer issues and emerging issues
- Remove and replace part instructions and videos
- Install and configure
- Printer specifications
- Warranty and regulatory information

Additional service and support for HP internal personnel

HP internal personnel, go to one of the following Web-based Interactive Search Engine (WISE) sites:

View a video of how to access WISE for internal HP users.

Americas (AMS)

- WISE - English
- WISE - Spanish
- WISE - Portuguese
- WISE - French

Asia Pacific / Japan (APJ)

- WISE - English
- WISE - Japanese
- WISE - Korean
- WISE - Chinese (simplified)
- WISE - Chinese (traditional)
- WISE - Thai

Europe / Middle East / Africa (EMEA)

- WISE - English

Additional technical support WISE videos

The videos below provide additional ways to access printer information using WISE.

View a video of how to use WISE to find technical support videos (model number search).

View a video of ow to use WISE to find technical support videos (Product detail page [PDP] search).

Order parts by authorized service providers

Find information about ordering parts and supplies for the printer.

Ordering

Order parts by authorized service providers.

Table 2-1 Ordering

Item or provider	Description
Order supplies and paper	www.hp.com/go/suresupply
Order parts from authorized service providers	www.hp.com/buy/parts or partsurfer.hp.com
Order through service or support providers	Contact an HP-authorized service or support provider.
Order using the HP Embedded Web Server (EWS)	To access, in a supported web browser on your computer, enter the printer IP address or host name in the address/URL field. The EWS contains a link to the HP SureSupply web site, which provides options for purchasing Original HP supplies.

Orderable parts

Not all of the parts shown in the exploded assembly diagrams are orderable parts.

Refer to the tables following the diagrams or the alphabetical/numerical parts lists to determine if a part is orderable.

Supplies and accessories

Following are the part numbers for the supplies and accessories that are available for the printers.

To order cartridges, visit http://www.hp.com (some portions of the HP Web site are available in English only). Ordering cartridges online is not supported in all countries/regions. However, many countries/regions have information about ordering by telephone, locating a local store, and printing a shopping list. In addition, go to hp.com/supplies to obtain information about purchasing HP products in your country/region.

Use only the replacement cartridges that have the same cartridge number as the cartridge that is being replaced. Find the cartridge number in the following places:

- On the label of the cartridge that is being replaced.
- On a sticker inside the printer. Open the cartridge door to locate the sticker.
- Open the printer software (**HP Printer Assistant**), and then click **Shop** > **Shop For Supplies Online**.
- Open the HP Embedded Web Server (EWS), and then click **Tools** > **Supply Status** (under the **Product Information** item).

Table 2-2 Supplies part numbers

Item	Description	Cartridge number	Part number
HP 872A Black Original LaserJet Toner Cartridge	Standard-capacity replacement black toner cartridge (M501/M506/E50045/M527/E52545)	87A	CF287A (service: CF287-67901)
HP 872X High Yield Black Original LaserJet Toner Cartridge	High-capacity replacement black toner cartridge (M501/M506/E50045/M527/E52545)	87X	CF287X (service: CF287-67902)
HP 89A Black Original LaserJet Toner Cartridge	Standard-capacity replacement black toner cartridge (M507/E50145/M528/E52645)	89A	CF289A (service: CF289-67901)
HP 89X High Yield Black Original LaserJet Toner Cartridge	High-capacity replacement black toner cartridge (M507/E50145/M528/E52645)	89X	CF289X (service: CF289-67902)
HP 89Y Extra High Yield Black Original LaserJet Toner Cartridge	Extra high-capacity replacement black toner cartridge (M507/E50145/M528/E52645)	89Y	CF289Y (service: CF289-67903)
HP Black contract LaserJet Toner Cartridge	Standard-capacity replacement black toner cartridge (contract; M507/E50145/M528/E52645)	89YC	CF289YC (service: CF289-67904)
HP Black managed LaserJet Toner Cartridge	Standard-capacity replacement black toner cartridge (managed; M507/E50145/M528/E52645)	89A	CF289A (service: CF289-67905)
HP Staple Cartridge Pack	Replacement staple cartridges for the f and z models. Contains two staple cartridges of 1500 staples each (MFP only).	Not applicable	Q7432A

Table 2-2 Supplies part numbers (continued)

Item	Description	Cartridge number	Part number
HP LaserJet 200 ADF Roller Replacement Kit	Replacement feed rollers for the document feeder (MFP only).	Not applicable	B5L52A

Table 2-3 Accessories

Item	Description	Part number
1 x 550-sheet paper feeder	Optional 550-sheet paper feeder (The M501 printer supports one 1 x 550-sheet paper feeder. All other models support up to three 1 x 550-sheet paper feeders.)	F2A72A
Printer stand and cabinet	Optional stand with storage cabinet to support the printer (Recommended when using multiple optional paper feeders.)	F2A73A
500 GB HP Secure High-Performance Hard Disk Drive	Accessory hard drive (M506/E50045/M507/E50145/M527/E52545/M528/E52645 only)	B5L29A
320 GB HP Secure High-Performance Hard Disk Drive	Standard hard drive (M527/E52545 only)	5851-6712
TAA FIPS/CC Hard Disk Drive	Hard Disk Drive (M527/E52545/M528/E52645 only)	5EH03A
HP 1GB DDR3 x32 144-pin 800MHz SODIMM	Optional DIMM for expanding the memory (M527/E52545/M528/E52645)	E5K48A
HP 2GB DDR3 x32 144-pin 800MHz SODIMM	Optional DIMM for expanding the memory (M527/E52545/M528/E52645)	E5K49A
HP 1GB 90-pin DDR3 x32 Slim DIMM	Optional DIMM for expanding the memory (M506/E50045/M507/E50145)	G6W84A
1GB 90-Pin DDR3 Slim DIMM TAA-Compliant	Optional DIMM for expanding the memory (M506/E50045/M507/E50145)	2NR03A
2GB 144-Pin DDR3 DIMM TAA-Compliant	Optional DIMM for expanding the memory (M527/E52545/M528/E52645)	2NR09A
HP LaserJet Keyboard Overlay Kit for Simplified Chinese & Traditional Chinese	Language-specific, adhesive overlay for the physical keyboard (z models only)	A7W12A
HP LaserJet Keyboard Overlay Kit for Swedish	Language-specific, adhesive overlay for the physical keyboard (z models only)	A7W14A
HP Internal USB ports	Two internal USB ports for connecting third-party devices	B5L28A
HP Trusted Platform Module	Automatically encrypts all data that passes through the printer	F5S62A
HP Foreign Interface Harness	Optional port for connecting third-party devices	B5L31A
HP LaserJet MFP Analog Fax Accessory 600	Optional fax accessory for the dn model (M527/E52545)	B5L53A
HP LaserJet MFP Analog Fax Accessory 700	Optional fax accessory for the dn model (M528/E52645)	2EH31A
HP Jetdirect 2900nw Print Server	USB wireless print server accessory	J8031A

Table 2-3 Accessories (continued)

Item	Description	Part number
HP Jetdirect 3000w NFC/Wireless Accessory	WiFi direct accessory for “touch” printing from mobile devices (M506/E50045/M527/E52545 only)	J8030A
HP JetDirect 3100w BLE/NFC/Wireless Accessory	WiFi direct accessory for “touch” printing from mobile devices (M507/E50145/M528/E52645 only)	3JN69A
HP Accessibility Kit (M528 only)	Accessibility kit including button adhesives and an accessibility handle (M528/E52645 only)	2TD64A
HP USB Universal Card Reader (M528 only)	USB proximity card reader (M528/E52645 only)	X3D03A
HP Legic Reader	HP card reader accessory	4QL32A

Customer self-repair kits

Following are the available customer self-repair kits part numbers.

Customer Self-Repair (CSR) parts are available for many HP LaserJet printers to reduce repair time. More information about the CSR program and benefits can be found at www.hp.com/go/csr-support and www.hp.com/go/csr-faq.

Genuine HP replacement parts can be ordered at www.hp.com/buy/parts or by contacting an HP-authorized service or support provider. When ordering, one of the following will be needed: part number, serial number (found on back of printer), printer number, or printer name.

- Parts listed as **A**: Easy
- Parts listed as **B**: Difficult and/or requires tools

Table 2-4 Customer self-repair kits

Kit	Description	CSR level	Part number
Control panel (M527/E52545/M528/E52645 only)	Control panel and screwdriver	A	B5L47-67018
Control panel kit (M506x/E50045x only)	Control panel and screwdriver	A	G1W41-67907
Control panel kit (M507x/E50145x only)	Control panel and screwdriver	A	K0Q15-67901
White backing (MFP only)	White backing (document feeder) and retention clips	A	5851-6570
embedded MultiMedia Card (eMMC) kit (M527dn/E52545dn/M528dn/E52645dn only)	eMMC module 16GB	A	5851-6587
embedded MultiMedia Card (eMMC) kit (M506/E50045 only)	eMMC module 4GB	A	5851-6436
Transfer roller	Transfer roller	A	F2A68-67910

Table 2-4 Customer self-repair kits (continued)

Kit	Description	CSR level	Part number
Multipurpose tray (Tray 1) pickup roller and separation pad	Roller and separation pad for Tray 1	B	F2A68-67914
Tray 2/3 roller kit (M506/E50045/M507/E50145/ M527/E52545/M528/E52645 only)	Rollers for Tray 2 and the optional 550-sheet paper feeders. NOTE: This kit contains rollers for two trays, both Tray 2 and the optional 550 sheet feeder.	B	RM2-5752-000CN NOTE: (Replaces F2A68-67913 that is obsolete)
Tray 2- roller kit (M501/M506/E50045/M507/ E50145/ M527/E52545/M528/ E52645)	Rollers for Tray 2 NOTE: This roller kit is for one tray only! For a roller kit for tray 2 and optional 550 sheet feeder order RM2-5752-000CN	B	J8H60-67903
Document feeder maintenance kit (MFP only)	Pickup, feed, and separation ADF roller kit	A	W5U23-67901
Keyboard kit (M527c/z/ E52545c/z/M528cz/E52645cz only)	Physical pull-out keyboard	B	B5L47-67019 (US English
Keyboard kit (M527c/z/ E52545c/z/M528cz/E52645cz only)	Physical pull-out keyboard	B	B5L47-67020 (UK English)
Foreign Interface Harness kit (MFP only)	FIH accessory	A	B5L31-67902

HP service and support

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- Warranty and regulatory information

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- WISE - Spanish
- WISE - Portuguese
- WISE - French

Asia Pacific / Japan (APJ)

- WISE - English
- WISE - Japanese
- WISE - Korean
- WISE - Chinese (simplified)
- WISE - Chinese (traditional)
- WISE - Thai

Europe / Middle East / Africa (EMEA)

- WISE - English

Additional technical support WISE videos

The videos below provide additional ways to access printer information using WISE.

View a video of how to use WISE to find technical support videos (model number search).

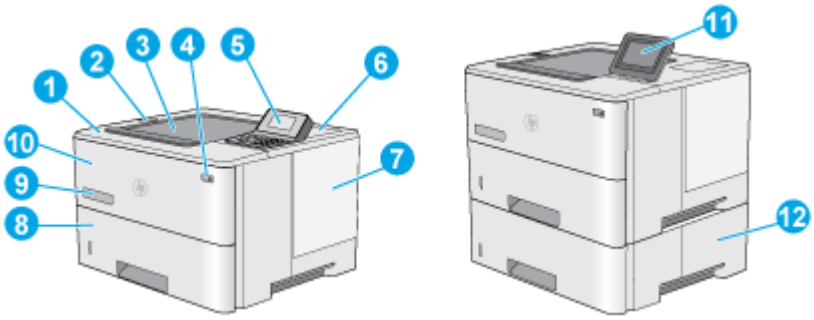
View a video of ow to use WISE to find technical support videos (Product detail page [PDP] search).

Assembly locations

Learn about major printer assembly locations.

Printer front view (SFP)

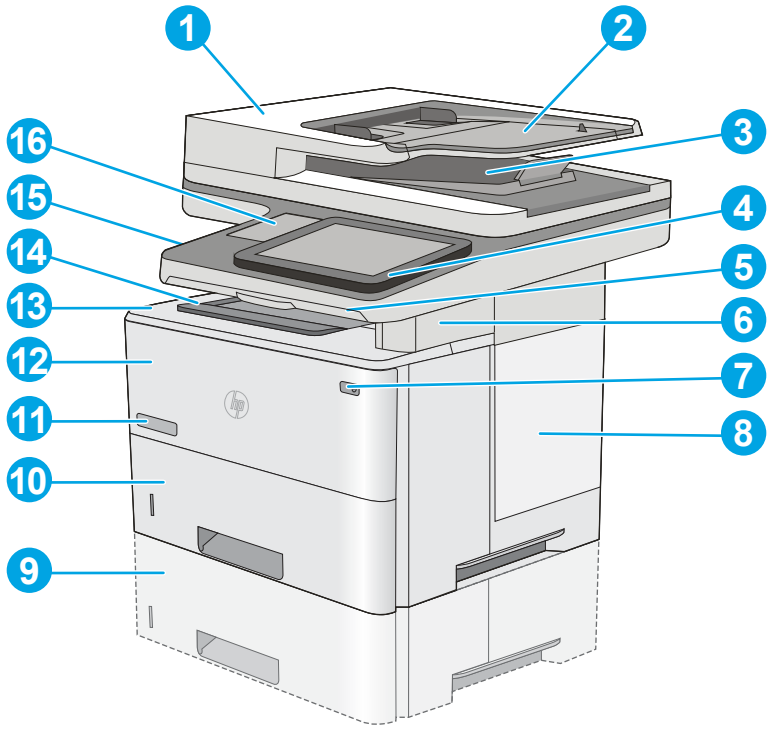
Use the diagram to locate important components on the printer.



1	Top cover (access to the toner cartridge)
2	Easy-access USB port Insert a USB flash drive for printing without a computer or to update the printer firmware. NOTE: An administrator must enable this port before use.
3	Output bin
4	On/off button
5	2.7-in QVGA LCD color display with 24-key pad (n and dn models)
6	Hardware integration pocket for connecting accessory and third-party devices NOTE: M506/E50045/M527/E52545 only: To use the hardware integration pocket (HIP), install the HP internal USB ports accessory (B5L28A). The USB port inside the HIP is not functional otherwise.
7	Formatter cover
8	Tray 2
9	Model name
10	Tray 1
11	Control panel with color touchscreen display (x models only)
12	1 x 550-sheet paper feeder, Tray 3 (included with the x model, optional for the other models) NOTE: Each printer model accepts up to three optional 1 x 550-sheet feeders (Trays 3, 4, and 5). Tray 3 is included with the x model.

Printer front view (MFP)

Locate features on the front of the printer.

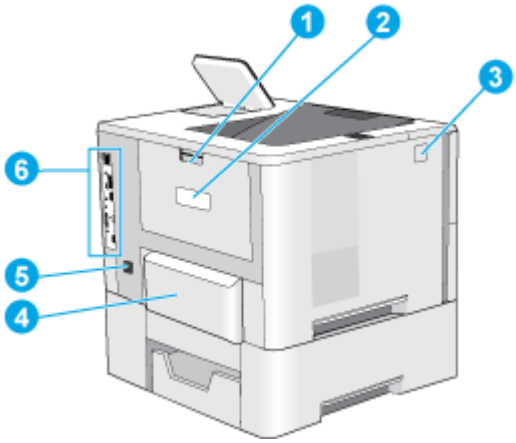


1	Document-feeder cover (access for clearing jams)
2	Document-feeder input tray
3	Document-feeder output bin NOTE: When feeding long paper through the document feeder, extend the paper stop at the right side of the output bin.
4	Control panel with color touchscreen display (tilts up for easier viewing)
5	Physical keyboard (c and z models only). Pull the keyboard straight out to use it.
6	Convenience stapler (c, f, and z models only)
7	On/off button
8	Formatter cover
9	Optional 1 x 550-sheet paper feeder (Tray 3) NOTE: Each printer model accepts up to three optional 1 x 550-sheet feeders (Trays 3, 4, and 5).
10	Tray 2
11	Model name
12	Tray 1
13	Top cover (access to the toner cartridge) NOTE: The release button for the top cover is on the left side of the printer.
14	Standard output bin

15	Easy-access USB port (on the left side of the control panel support) Insert a USB flash drive for printing or scanning without a computer or to update the printer firmware. NOTE: An administrator must enable this port before use.
16	Hardware integration pocket (for connecting accessory and third-party devices) NOTE: M506/E50045/M527/E52545 only: To use the hardware integration pocket (HIP), install the HP internal USB ports accessory (B5L28A). The USB port inside the HIP is not functional otherwise.

Printer back view (SFP)

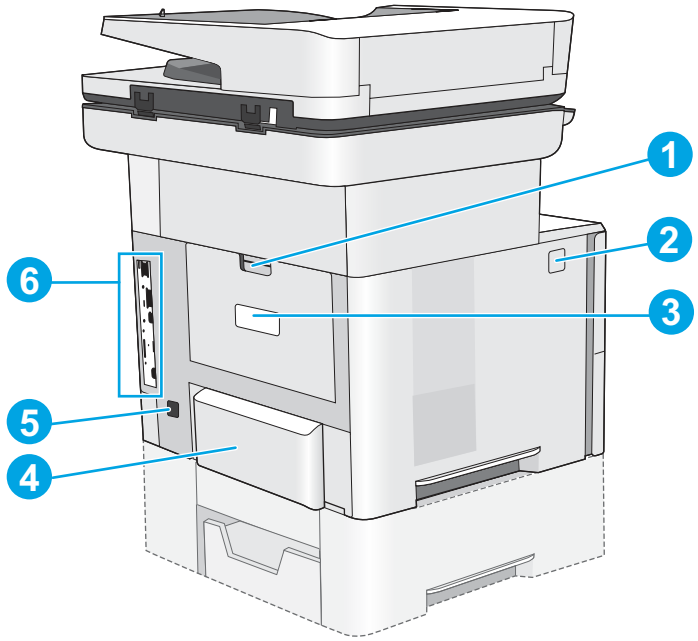
Use the diagram to locate important components on the printer.



1	Rear door (access for clearing jams)
2	Serial number and product number label
3	Top-cover-release button
4	Dust cover for Tray 2 (flips up when legal-size paper is loaded)
5	Power connection
6	Formatter (contains the interface ports)

Printer back view (MFP)

Locate features on the back of the printer.



1	Rear door (access for clearing jams)
2	Top-cover-release button
3	Serial number and product number label
4	Dust cover for Tray 2 (flips up when legal-size paper is loaded)
5	Power connection
6	Formatter (contains the interface ports)

How to use the parts lists and diagrams

Learn how to use the parts lists and diagrams.

The figures in this chapter show the major sub-assemblies in the printer and their component parts. A parts list table follows each exploded view assembly diagram. The 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).

NOTE: 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.

Parts and diagrams: Document feeder and scanner whole units

Parts diagram and part list for the document feeder and scanner whole units.

Figure 2-1 Document feeder and image scanner assembly (MFP only)

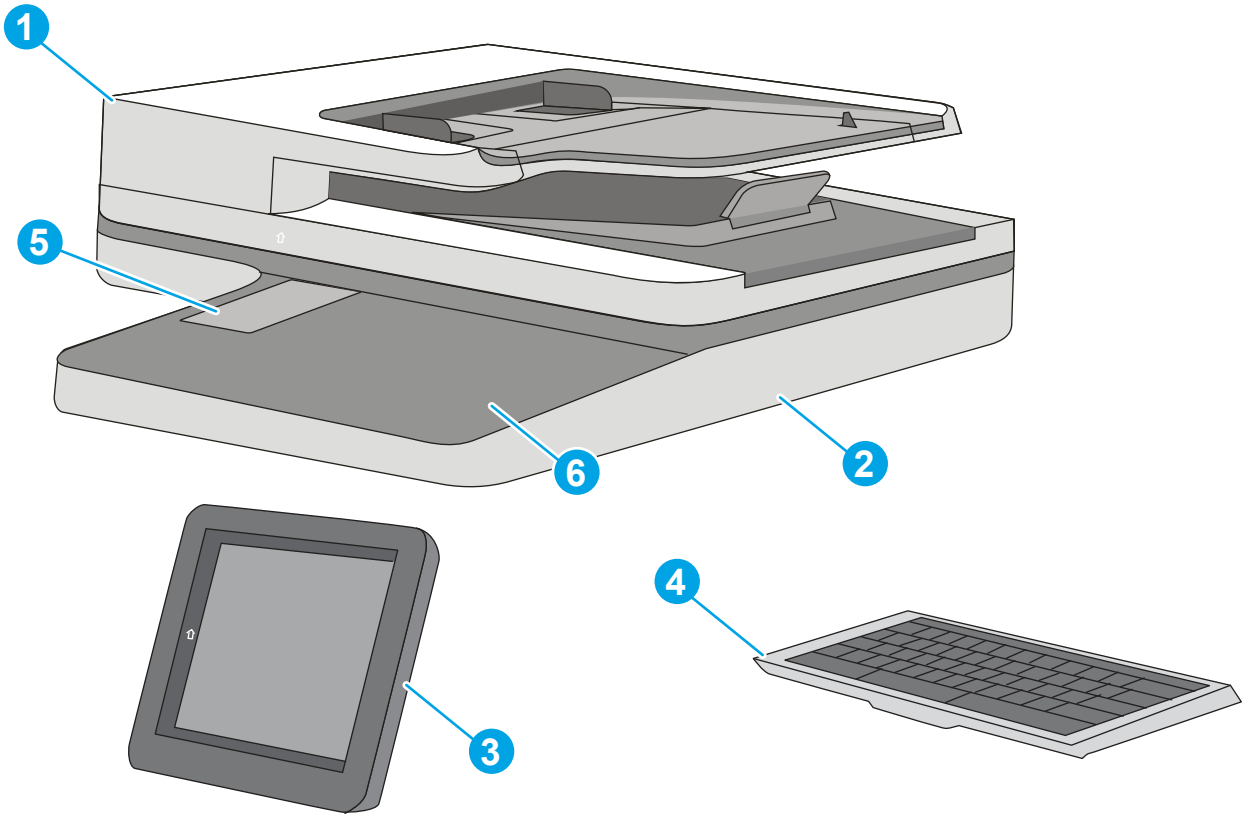


Table 2-5 Document feeder and image scanner assembly (MFP only)

Ref No	Part number	Description	Qty
1	B5L47-67906	Document feeder kit (M527/E52545/M528/ E52645 Enterprise)	1
1	B5L47-67907	Document feeder kit (M527/E52545/M528/ E52645 Flow)	1
2	F2A76-67909	Image scanner assembly kit (M527/E52545/ M528/E52645)	1
3	B5L47-67018	Control panel kit (M527/E52545/M528/E52645)	1
4	B5L47-67019	Keyboard US (M527/E52545/M528/E52645)	1
4	B5L47-67020	Keyboard UK (M527/E52545/M528/E52645)	1
5	B5L46-40021	Cover, HIP (M527/E52545/M528/E52645)	1
6	B5L46-60117	Bezel, control panel (M527/E52545/M528/ E52645)	1
Not shown	B5L46-40002	Cover, keyboard (M527/E52545/M528/E52645)	1
Not shown	5851-5939	Cable, WU USB control panel (M527/E52545)	1

Table 2-5 Document feeder and image scanner assembly (MFP only) (continued)

Ref No	Part number	Description	Qty
Not shown	5851-5938	Cable, HIP USB control panel (M527/E52545/ M528/E52645)	1
Not shown	5851-5936	Cable, HDMI control panel (M527/E52545/M528/ E52645)	1
Not shown	5851-5935	Cable, 18-pin control panel (M527/E52545/M528/ E52645)	1
Not shown	F2A76-50004	Cable, HDMI PAB to SCAM (M527/E52545/M528/ E52645)	1
Not shown	COM39-60064	Hinge, left document feeder (M527/E52545/ M528/E52645)	1
Not shown	COM39-60065	Hinge, right document feeder (M527/E52545/ M528/E52645)	1
Not shown	B5L46-40028	Cover, USB (M527/E52545)	1
Not shown	B5L46-60116	Cable, stapler (M5278/E52645)	1
Not shown	B5L46-40011	Cover, rear image scanner (M527/E52545)	1
Not shown	B5L47-67901	Scan-control board (SCB) kit (M528/E52645)	1
Not shown	B5L47-67903	Scan-control board (SCB) kit (M527/E52545)	1
Not shown	5851-6019	Keyboard overlay kit (FR, IT, RU, DE, ES: UK Kybd)	1
Not shown	5851-6020	Keyboard overlay kit (FR-CN, ES-LA, ES: US Keyboard)	1
Not shown	5851-6021	Keyboard overlay kit (FR-SW, DE-SW, DA: UK Keyboard)	1
Not shown	5851-6022	Keyboard overlay kit (ZHTW, ZHCN)	1
Not shown	5851-6023	Keyboard overlay kit (ES, PT)	1
Not shown	5851-6024	Keyboard overlay kit (JA-KG, JA-KT)	1

Parts and diagrams: Covers (M501/M506/E50045/M507/E50145)

Parts diagram and parts list for the SFP printer covers.

Figure 2-2 Covers (M501/M506/E50045/M507/E50145)

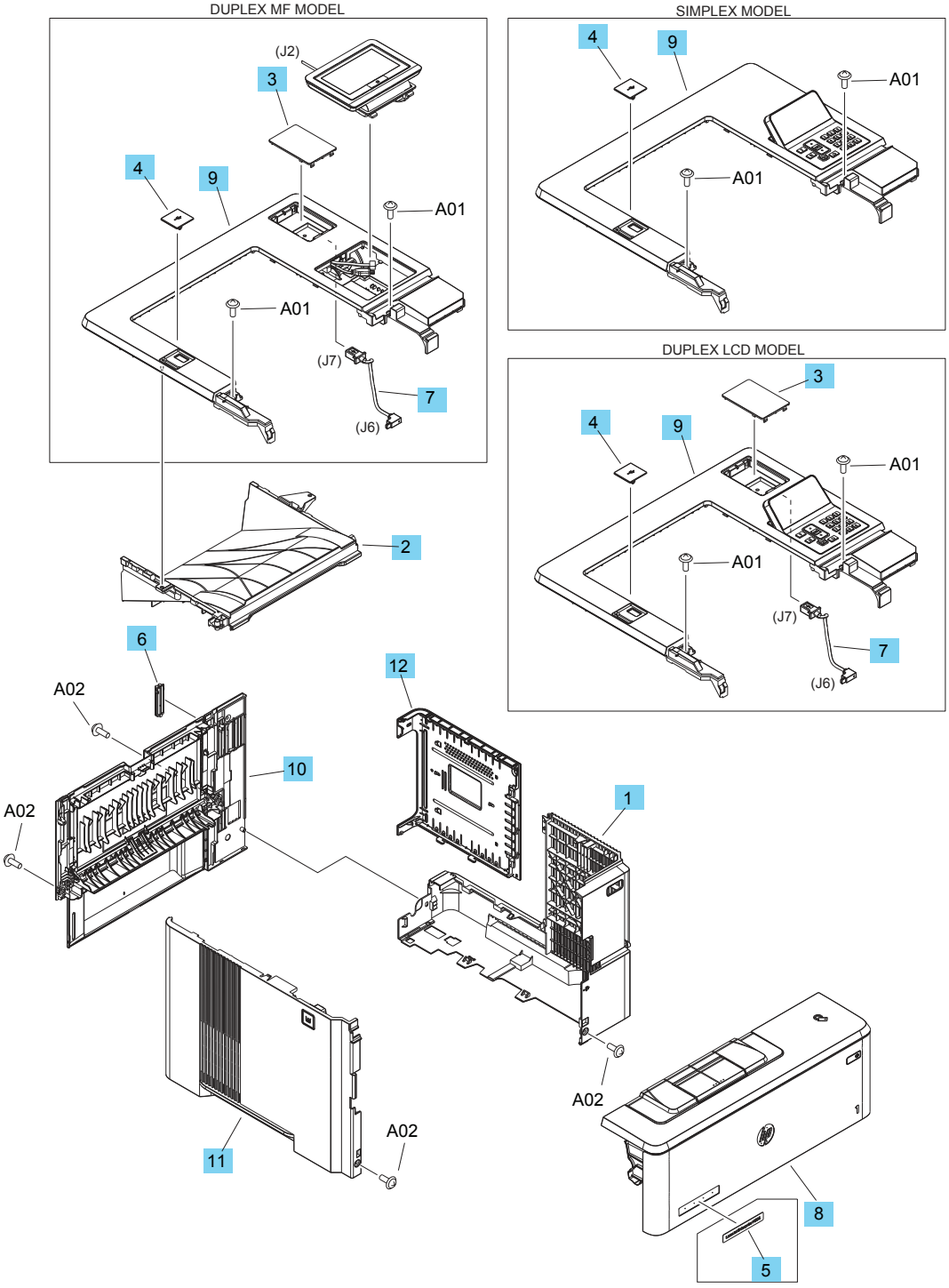


Table 2-6 Covers (M501/M506/E50045/M507/E50145)

Ref No	Part number	Description	Qty
1	RC4-4437-000CN	Cover, right (M501/M506/E50045)	1
1	RC4-4137-000CN	Cover, right (M507/E50145)	1
2	RC4-4439-000CN	Tray, paper delivery output bin (M501/M506/E50045)	1
2	RC4-4141-000CN	Tray, paper delivery output bin (M507/E50145)	1
3	RC4-4142-000CN	Cover, HIP (M506/E50045/M507/E50145 duplex models)	1
4	RC4-4149-000CN	Cover, USB (M506/E50045/M507/E50145)	1
5	F2A68-40002	Plate, name (M506/E50045)	1
5	1PV87-40001	Plate, name (M507)	1
5	1PU51-40001	Plate, name (E50145dn)	
5	J8H60-40001	Plate, name (M501)	1
6	RC4-4433-000CN	Cover, I/O (M506/E50045/M507/E50145)	1
7	RK2-7104-000CN	Cable, HIP (M506/E50045 duplex models)	1
7	RK3-0526-000CN	Cable, HIP (M507/E50145 duplex models)	1
8	F2A68-67919	Door, cartridge kit (M506n/dn/E50045n/dn)	1
8	F2A68-67920	Door, cartridge kit (M506x/E50045x)	1
8	RM2-5677-000CN	Door, cartridge (M501/M507/E50145)	1
Not Shown	RM2-5735-000CN	Cover, top (M501)	1
9	RM2-5687-000CN	Cover, top (M506/E50045 simplex models)	1
9	RM2-5699-000CN	Cover, top (M506/E50045 duplex LCD models)	1
9	RM2-5686-000CN	Cover, top (M506/E50045 duplex MF models)	1
9	RM2-5726-000CN	Cover, top (M501 duplex models)	1
9	RM2-2587-000CN	Cover, top (M507/E50145 duplex models)	1
9	RM2-2607-000CN	Cover, top (M507/E50145 simplex models)	1
10	RM2-5712-000CN	Door, rear (M501/M506/E50045/M507/E50145 simplex models)	1
10	RM2-5711-000CN	Door, rear (M501/M506/E50045/M507/E50145 duplex models)	1
11	RM2-5727-000CN	Cover, left (M501/M506/E50045)	1
11	RM2-5713-000CN	Cover, left (M507/E50145)	1
12	RC4-4200-000CN	Cover, formatter (M501)	1
12	RM2-5725-000CN	Cover, formatter (M506/E50045/M507/E50145)	1
Not shown	RC4-3010-000CN	Hinge, cartridge door left	1
Not shown	RC4-4479-000CN	Link, pressure release (cartridge door)	1

Table 2-6 Covers (M501/M506/E50045/M507/E50145) (continued)

Ref No	Part number	Description	Qty
Not shown	RC4-3002-000CN	Shaft, support	1
Not shown	RC5-5148-000CN	Cover, WiFi	1
Not shown	RC4-3219-000CN	Cover, full detect sensor	1
Not shown	7121-8684	Jewel, HP logo (2pc; M507/E50145)	1
No reference	G1W41-67907	Control panel kit (M506x/E50045x)	1
No reference	K0Q15-67901	Control panel kit (M507x/E50145x)	1
No reference	J8H60-67904	Control panel (M501)	1
No reference	RM2-2610-000CN	Control panel (507n/dn)	1
No reference	K0Q15-60106	Control panel E50145	1

Parts and diagrams: Covers (M527/E52545/M528/E52645)

Parts diagram and parts list for the MFP printer covers.

Figure 2-3 Covers (M527/E52545/M528/E52645)

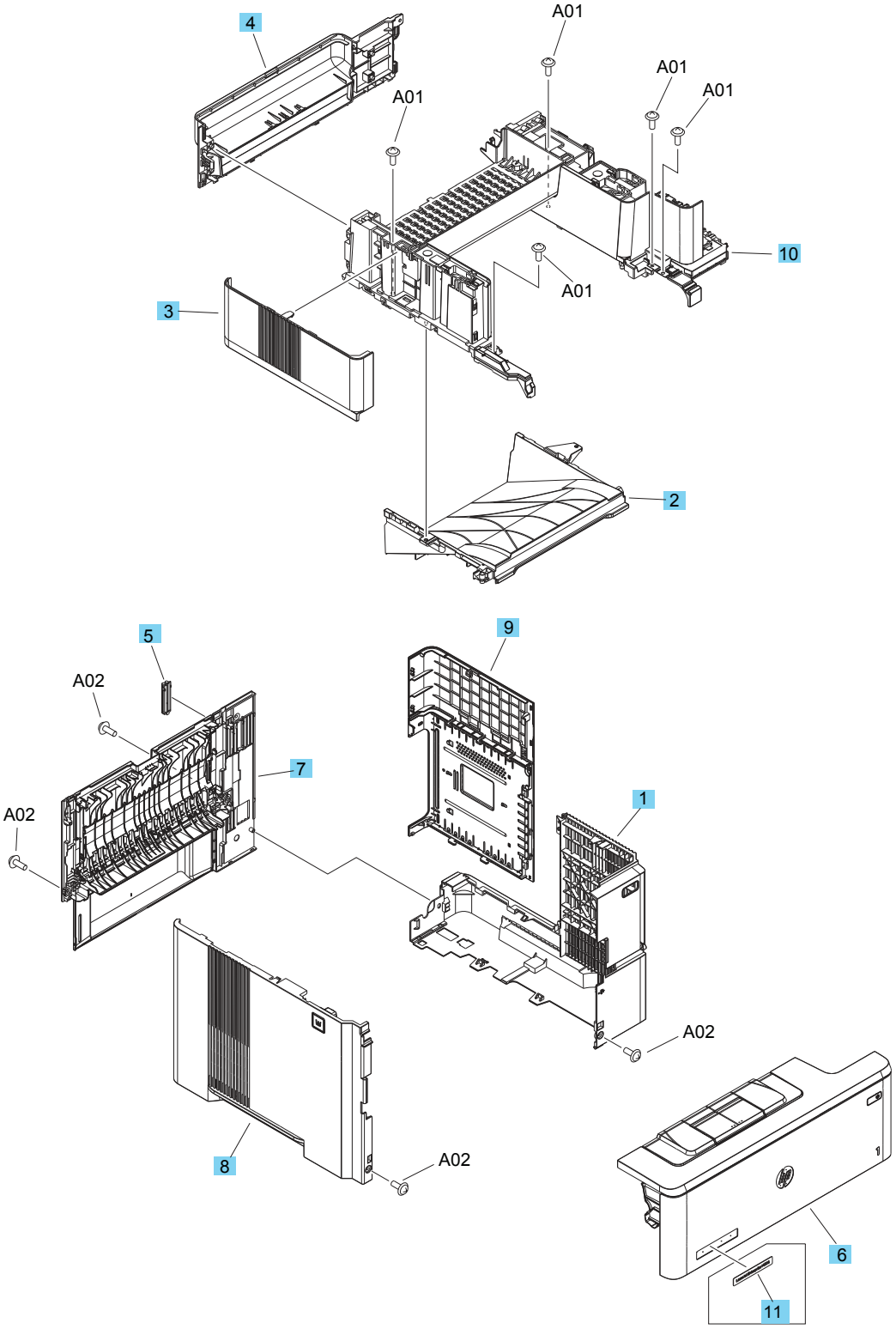


Table 2-7 Covers (M527/E52545/M528/E52645)

Ref No	Part number	Description	Qty
1	RC4-4437-000CN	Cover, right (M527/E52545/M528/E52645)	1
2	RC4-4141-000CN	Tray, paper delivery output bin (M527/E52545/ M528/E52645)	1
3	RC4-4147-000CN	Cover, top left (M527/E52545/M528/E52645)	1
4	RC4-4150-000CN	Cover, top rear (M527/E52545)	1
5	RC4-4433-000CN	Cover, I/O (M527/E52545)	1
6	F2A76-67912	Door, cartridge kit (M527/E52545)	1
6	RM2-5691-000CN	Door, cartridge (M528/E52645)	1
7	RM2-5711-000CN	Door, rear (M527/E52545/M528/E52645)	1
8	RM2-5727-000CN	Cover, left (M527/E52545)	1
8	RM2-5713-000CN	Cover, left (M528/E52645)	1
9	RM2-5717-000CN	Cover, formatter (M527/E52545/M528/E52645)	1
10	RM2-5718-000CN	Cover, top (M527/E52545/M528/E52645)	1
11	F2A74-40001	Plate, name (M527/E52545)	1
11	1PV64-40001	Plate, name (M528dn/f)	1
11	1PV66-40001	Plate, name (M528c/z)	1
11	1PS54-40001	Plate, name (E52645dn)	1
11	1PS55-40001	Plate, name (E52645c)	1
Not shown	7121-8684	Jewel, HP logo (2pc; M528/E52645)	1
Not shown	F2A76-40003	Cover, stationary stapler, inner (M527c/f/z/ E52545c/f/z/M528c/f/z/E52645c/f/z)	1
Not shown	F2A76-40004	Door, stapler flap (M527c/f/z/E52545c/f/z)	1
Not shown	F2A76-40005	Cover, stapler blank (M527dn/E5245dn)	1
Not shown	B5L24-00035	Sticker, stapler cartridge replacement (M527/ M528/E52645)	1
Not shown	5851-1885	Plug/cap, fax port (M527/E52545)	1
Not shown	RC4-3010-000CN	Hinge, cartridge door left	1
Not shown	RC4-4479-000CN	Link, pressure release (cartridge door)	1
Not shown	RC4-3002-000CN	Shaft, support	1
Not shown	RC4-3219-000CN	Cover, full detect sensor	1

Parts and diagrams: Internal assemblies (1 of 4)

Parts diagram and parts list for the internal printer assemblies.

Figure 2-4 Internal assemblies (1 of 4)

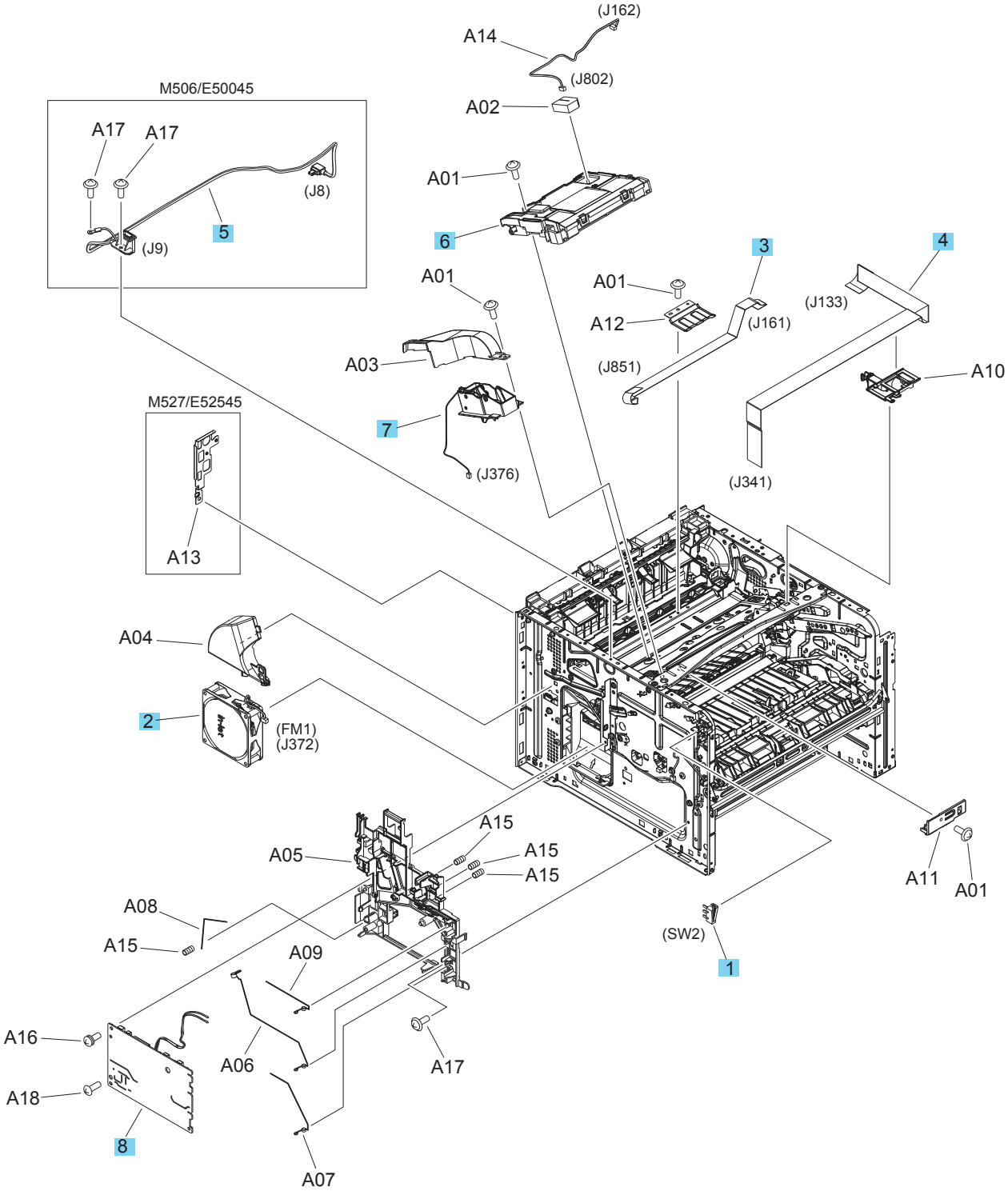


Table 2-8 Internal assemblies (1 of 4)

Ref No	Part number	Description	Qty
1	RK2-0534-000CN	Microswitch (SW2)	1
2	RK2-8068-000CN	Fan (FM1)	1
3	RK2-6259-000CN	Cable, flat-flexible	1
4	RK2-6260-000CN	Cable, flat-flexible	1
5	RK2-7067-000CN	Cable, USB (M506/E50045)	1
5	RK2-7067-000CN	Cable, USB (M507/E50145)	1
6	RM2-5528-000CN	Laser/scanner assembly (M501/M506/E50045/ M527/E52545)	1
6	RM2-2891-000CN	Laser/scanner assembly (M507/E50145/M528/ E52645)	1
7	RM2-5702-000CN	Cable, TAG assembly (M501/M506/E50045/ M527/E52545)	1
7	RM2-2596-000CN	Cable, TAG assembly (M507/E50145/M528/ E52645)	1
8	RM2-7945-000CN	Power supply, high-voltage (HVPS) (M501/M506/ E50045/M527/E52545)	1
8	RM3-7424-000CN	Power supply, high-voltage (HVPS) (M507/ E50145/M528/E52645)	1

Parts and diagrams: Internal assemblies (2 of 4)

Parts diagram and parts list for the internal printer assemblies.

Figure 2-5 Parts and diagrams: Internal assemblies (2 of 4)

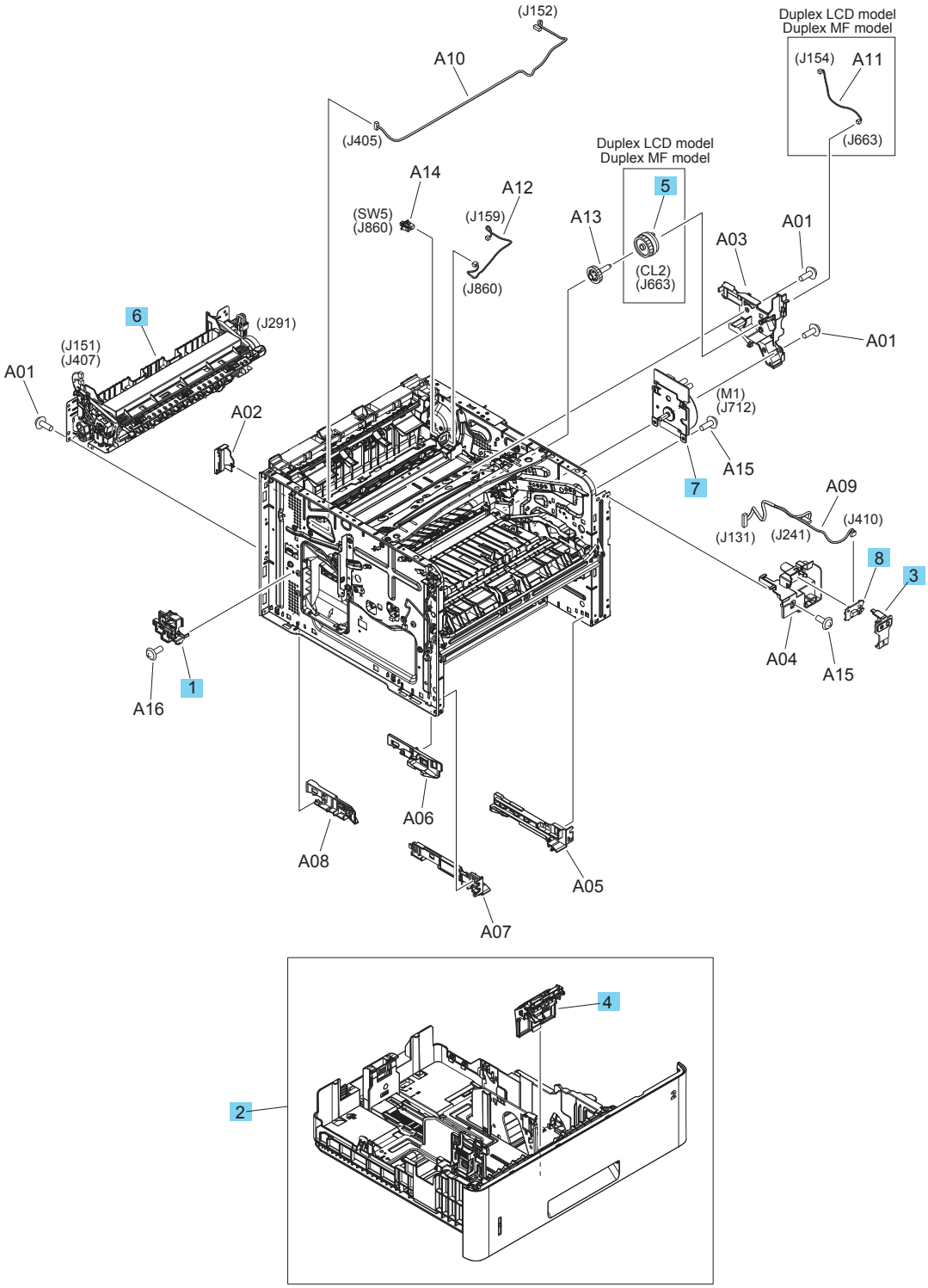


Table 2-9 Parts and diagrams: Internal assemblies (2 of 4)

Ref No	Part number	Description	Qty
1	RM2-5689-000CN	Film bias assembly	1
2	RM2-5690-000CN	Cassette (Tray 2)	1
3	RM2-5701-000CN	Switch, lever assembly	1
4	RM2-5745-000CN	Roller, separation (Tray 2/3)	1
5	RM2-8514-000CN	Clutch, paper re-pickup assembly (duplex LCD and MF models)	1
6	RM2-2585-000CN	Fixing (fuser) assembly 110V-127V (M501/M506/E50045/M527/E52545)	1
6	RM2-2585-000CN	Fixing (fuser) assembly 110V-127V (M507/E50145/M528/E52645)	1
6	RM2-2586-000CN	Fixing (fuser) assembly 220V-240V (M501/M506/E50045/M527/E52545)	1
6	RM2-2586-000CN	Fixing (fuser) assembly 220V-240V (M507/E50145/M528/E52645)	1
7	RM2-8684-000CN	Motor, main M1	1
8	RM2-8597-000CN	Switch, power PCA assembly	1
Not shown	RK2-8657-000CN	Cable, flat flexible (FFC)	1
Not shown	RK3-0503-000CN	Cable, flat flexible (FFC)	1

Parts and diagrams: Internal assemblies (3 of 4)

Parts diagram and parts list for the internal printer assemblies.

Figure 2-6 Parts and diagrams: Internal assemblies (3 of 4)

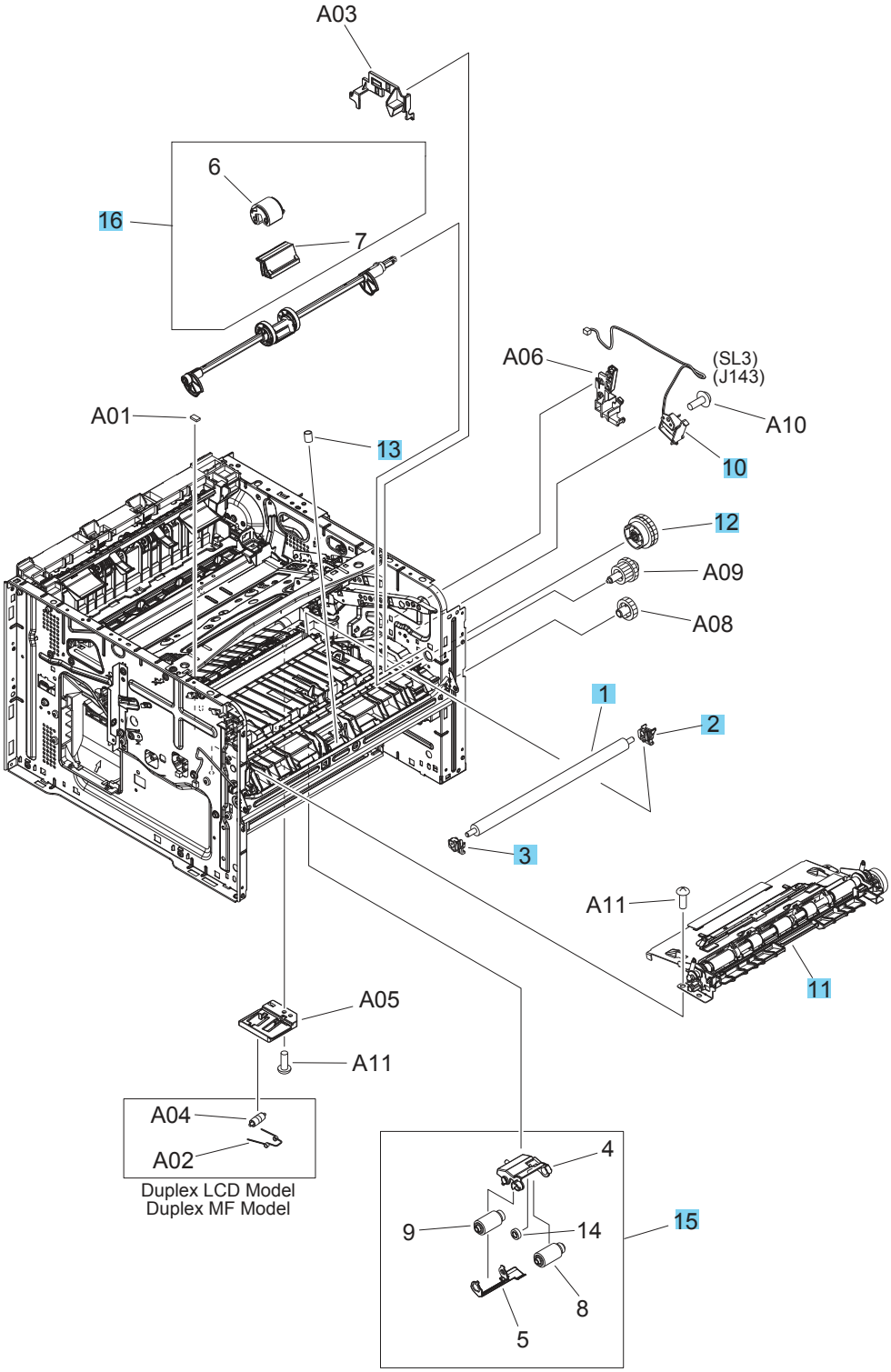


Table 2-10 Parts and diagrams: Internal assemblies (3 of 4)

Ref No	Part number	Description	Qty
1	F2A68-67910	Roller, transfer kit	1
2	RC4-3133-000CN	Holder, transfer roller right	1
3	RC4-3134-000CN	Holder, transfer roller left	1
10	RM1-5421-000CN	Solenoid assembly	1
11	RM2-5671-000CN	Registration assembly (M501/M506/E50045/ M527/E52545)	1
11	RM2-2577-000CN	Registration assembly (M507/E50145/M528/ E52645)	1
12	RM2-5700-000CN	Gear, multipurpose	1
13	RU8-2935-000CN	Spring, compression (included in the multipurpose tray roller and separation pad kit)	1
15	J8H60-67903	Roller, Tray 2-3 kit (M501)	1
15	F2A68-67913	Roller, Tray 2-x kit (M506/E50045/M507/E50145/ M527/E52545/M528/E52645)	1
16	F2A68-67914	Roller and pad, Tray 1 pickup and separation pad kit	1
Not shown	B5L46-60102	Stapler unit (M527/E52545/M528/E52645)	1
Not shown	F2A76-60113	Cable, stapler 6-pin (M527/E52545/M528/ E52645)	1
Not shown	B5L24-60001	Near-field communications (NFC) PCA (M527/ E52545)	1
Not shown	J8030-61001	Near-field communications (NFC) HP JetDirect 3000W NFC accessory (M528/E52645)	1
Not shown	F2A76-40007	Bracket, WiFi PCA (M506z/E50045/M507z/ E50145z/M527/E52545/M528/E52645)	1
Not shown	F2A76-60112	Cable, WiFi PCA (M506z/E50045z/M507z/ E50145z/M527/E52545/M528/E52645)	1
Not shown	1150-7968	Wireless embedded PCA (M506z/E50045z/ M507z/E50145z/M527/E52545M528/E52645)	1
Not shown	RM2-5666-000CN	Assembly-Intermediate Paper Feed	1

Parts and diagrams: Internal assemblies (4 of 4)

Parts diagram and parts list for the internal printer assemblies.

Figure 2-7 Parts and diagrams: Internal assemblies (4 of 4)

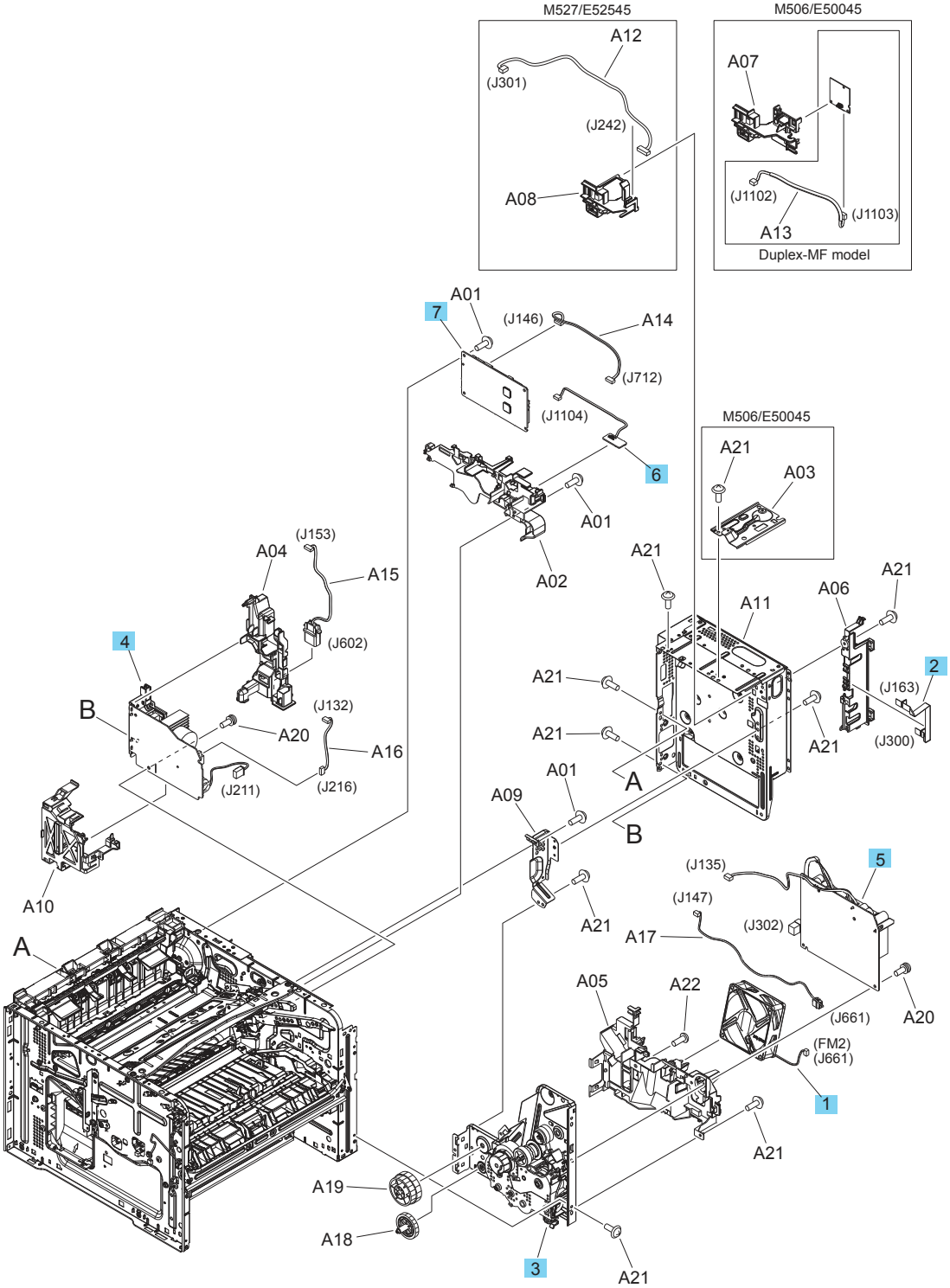


Table 2-11 Parts and diagrams: Internal assemblies (4 of 4)

Ref No	Part number	Description	Qty
1	RK2-8068-000CN	Fan (FM2)	1
2	RK2-6261-000CN	Cable, flat flexible (M506/E50045/M507/E50145/ M527/E52545/M528/E52645)	1
2	RK2-6526-000CN	Cable, flat flexible (M501)	1
3	RM2-5715-000CN	Paper feed drive assembly	1
4	RM2-7948-000CN	Fixing (fuser) power supply (FPS) 110V-127V (includes tray connector)	1
4	RM2-7949-000CN	Fixing (fuser) power supply (FPS) 220V-240V (includes tray connector)	1
5	RM2-7951-000CN	Low-voltage power supply (LVPS) 110V-127V (M527/E52545/M528/E52645)	1
5	RM2-7952-000CN	Low-voltage power supply (LVPS) 220V-240V (M527/E52545/M528/E52645)	1
5	RM2-7941-000CN	Low-voltage power supply (LVPS) 110V-127V (M501/M506/E50045/M507/E50145)	1
5	RM2-7942-000CN	Low-voltage power supply (LVPS) 220V-240V (M501/M506/E50045/M507/E50145)	1
6	RM2-7955-000CN	Memory PCA (M506/E50045/M507/ E50145M527/E52545/M528/E52645)	1
7	RM2-8612-000CN	DC controller PCA (M527/E52545)	1
7	RM3-7475-000CN	DC controller PCA, duplex (M507/M528/E52645)	1
7	RM3-7476-000CN	DC controller PCA, simplex (M507/E50145M528/ E52645)	1
7	RM2-8600-000CN	DC controller PCA, simplex (M506/E50045)	1
7	RM2-7940-000CN	DC controller PCA, duplex (M506/E50045)	1
7	RM2-8710-000CN	DC controller PCA, simplex (M501)	1
7	RM2-7950-000CN	DC controller PCA, duplex (M501)	1
Not shown	F2A76-67910	Formatter PCA kit (M527/E52545)	1
Not shown	1PV64-60002	Formatter PCA kit (M528/E52645)	1
Not shown	1PV64-60003	Formatter PCA kit (M528/E52645; China)	1
Not shown	1PV87-60001	Formatter PCA kit (M507x/dng /E50145)	1
Not shown	1PV87-60002	Formatter (M507dn)	1
Not shown	1PV87-60003	Formatter (M507n)	1
Not shown	1PV86-60004	Formatter (M507x/dng) China/India	1
Not shown	1PV86-60007	Formatter (M507dn) China/India	1
Not shown	1PV86-60008	Formatter (M507n) China/India	1
Not shown	F2A68-67915	Formatter PCA kit (M506n/dn /E50045n/dn)	1

Table 2-11 Parts and diagrams: Internal assemblies (4 of 4) (continued)

Ref No	Part number	Description	Qty
Not shown	F2A68-67916	Formatter PCA kit (M506x /E50045dw)	1
Not shown	J8H60-67901	Formatter PCA (M501n)	1
Not shown	J8H60-67902	Formatter PCA (M501n; China)	1
Not shown	J8H61-67901	Formatter PCA (M501dn)	1
Not shown	J8H61-67902	Formatter PCA (M501dn; China)	1
Not shown	RL2-0888-000CN	Case, formatter (M501)	1
Not shown	RL2-0885-000CN	Case, formatter PCA (M506/E50045/M507/E50145)	1
Not shown	RL2-0895-000CN	Case, formatter (M527/E52545/M528/E52645)	1
Not shown	CC456-60002	Fax PCA (M527/E52545)	1
Not shown	2EH31-67901	Fax PCA; HP analog fax 700 accessory (M528/E52645)	1
Not shown	5851-5605	Cradle, fax PCA (M527/E52545)	1
Not shown	5851-5997	Cable, fax PCA (M527/E52545)	1

Parts and diagrams: 1x550-sheet paper feeder

Parts diagram and parts list for the 1x550-sheet paper feeder.

Figure 2-8 Parts and diagrams: 1x550-sheet paper feeder

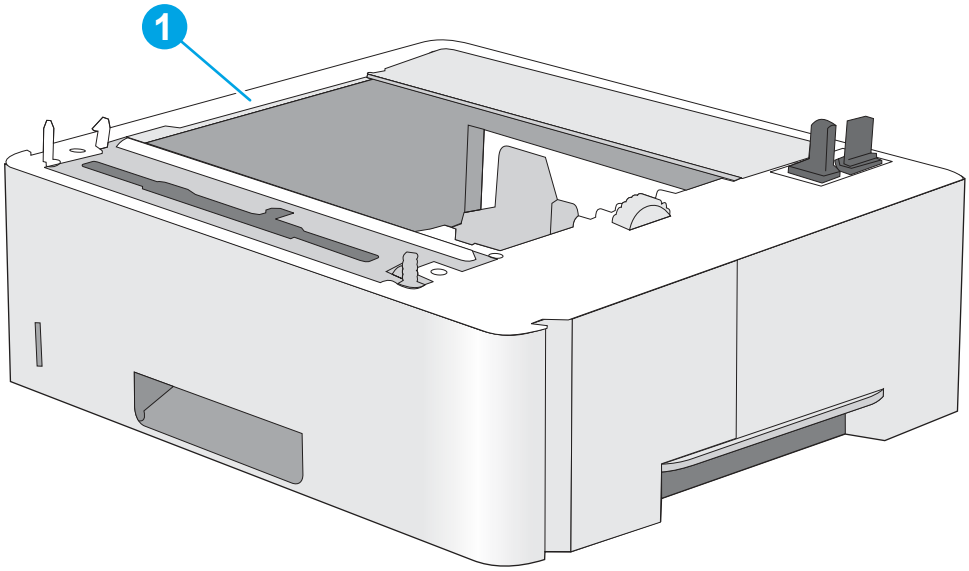


Table 2-12 Parts and diagrams: 1x550-sheet paper feeder

Ref No	Part number	Description	Qty
1	F2A72-67901	1x550-sheet paper feeder (whole unit)	1

Alphabetical parts list

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Numerical parts list

Part number	Description	Table and page

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