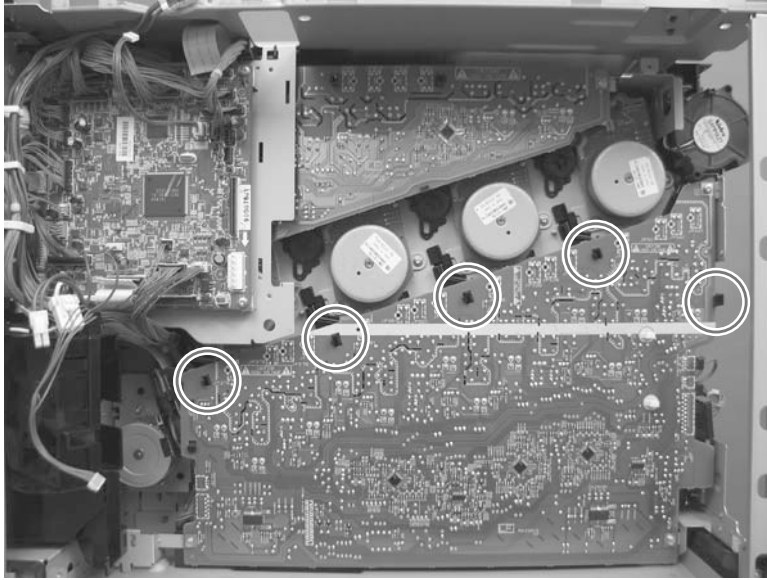


4. Release five tabs.

Figure 1-321 Remove the high-voltage power supply lower (5 of 7)

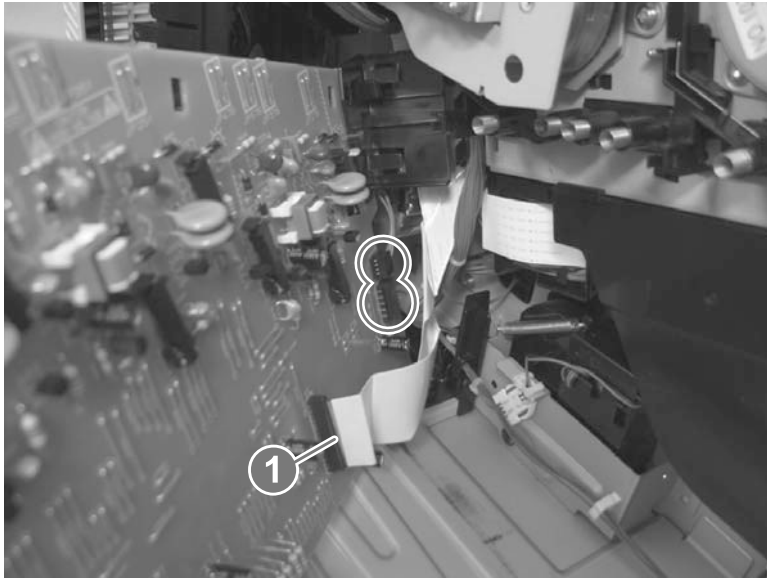


5. Rotate the top of the power supply away from the chassis, and then disconnect two connectors on the back of the power supply.



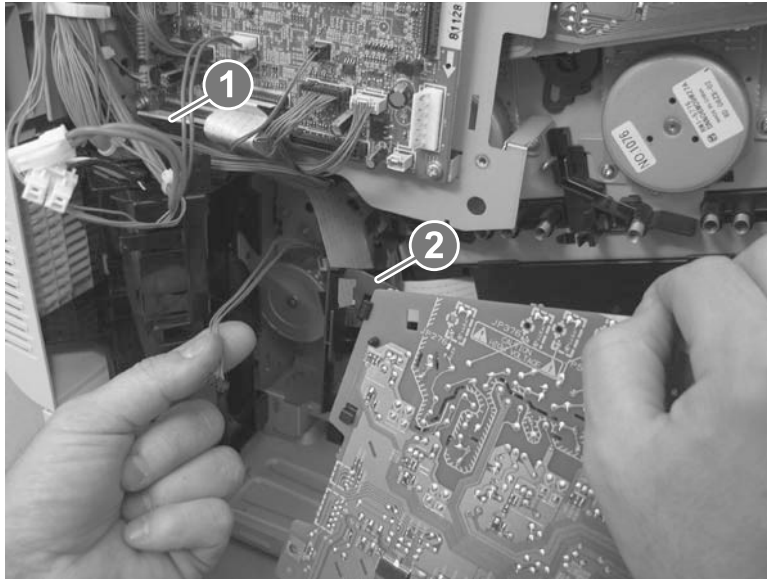
NOTE: Do not disconnect the FFC (callout 1). The FFC and the FFC wiring guide are supplied with the replacement assembly.

Figure 1-322 Remove the high-voltage power supply lower (6 of 7)



6. Disconnect one FFC (callout 1). Release **only** the wire harnesses from the guide (callout 2) and then remove the power supply.

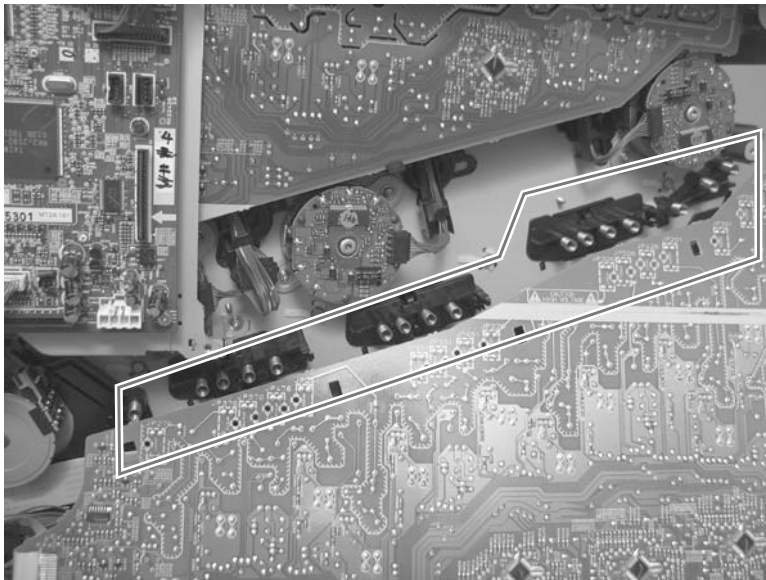
Figure 1-323 Remove the high-voltage power supply lower (7 of 7)



Reinstall the high-voltage power supply lower

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

Figure 1-324 Reinstall the high-voltage power supply lower



Developing-disengagement motor

Before proceeding, remove the following assemblies

M651 models

- Formatter. See [Formatter PCA on page 9](#).
- Upper left cover. See [Upper left cover \(M651\) on page 117](#).
- Left rear cover. See [Left rear cover on page 119](#).
- Rear cover. See [Rear cover \(M651\) on page 121](#).
- Face-down tray. See [Face-down tray \(M651\) on page 134](#).
- Face-down rear cover. See [Face-down rear cover \(M651\) on page 136](#).
- Interconnect board. See [Interconnect board \(ICB\) \(M651\) on page 194](#).
- Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 200](#).
- High-voltage power supply lower (HVPS-D). See [High-voltage power supply lower \(HVPS-D\) on page 207](#).

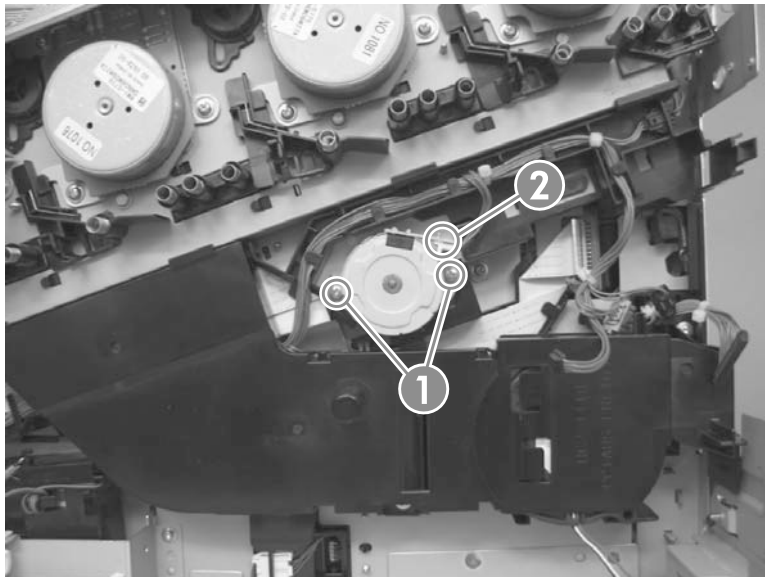
M680 models

- Formatter. See [Formatter PCA on page 9](#).
- Standard output bin. See [Standard output bin \(M680\) on page 52](#).
- Output bin bezel. See [Output bin bezel \(M680\) on page 53](#).
- Scanner rear cover. See [Scanner rear cover on page 79](#).
- Document feeder. See [Document feeder \(ADF\) on page 80](#).
- Scanner assembly. See [Image scanner assembly on page 103](#).
- Fan cover. See [Fan cover \(M680\) on page 118](#).
- Left rear cover. See [Left rear cover on page 119](#).
- Rear cover. See [Rear cover \(M680\) on page 122](#).
- Interconnect board (ICB). See [Interconnect board \(ICB\) \(M680\) on page 196](#).
- Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 200](#).
- High-voltage power supply lower (HVPS-D). See [High-voltage power supply lower \(HVPS-D\) on page 207](#).

Remove the developing-disengagement motor

- ▲ Remove two screws (callout 1), disconnect one connector (callout 2), and remove the motor.

Figure 1-325 Remove the developing-disengagement motor



Exhaust fan and fan duct

Before proceeding, remove the following assemblies

M651 models

- Formatter. See [Formatter PCA on page 9](#).
- Upper left cover. See [Upper left cover \(M651\) on page 117](#).
- Left rear cover. See [Left rear cover on page 119](#).
- Rear cover. See [Rear cover \(M651\) on page 121](#).
- Face-down tray. See [Face-down tray \(M651\) on page 134](#).
- Face-down rear cover. See [Face-down rear cover \(M651\) on page 136](#).
- Interconnect board. See [Interconnect board \(ICB\) \(M651\) on page 194](#).
- Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 200](#).
- High-voltage power supply lower. See [High-voltage power supply lower \(HVPS-D\) on page 207](#).

M680 models

- Formatter. See [Formatter PCA on page 9](#).
- Standard output bin. See [Standard output bin \(M680\) on page 52](#).
- Output bin bezel. See [Output bin bezel \(M680\) on page 53](#).
- Scanner rear cover. See [Scanner rear cover on page 79](#).
- Document feeder. See [Document feeder \(ADF\) on page 80](#).
- Scanner assembly. See [Image scanner assembly on page 103](#).
- Fan cover. See [Fan cover \(M680\) on page 118](#).
- Left rear cover. See [Left rear cover on page 119](#).
- Rear cover. See [Rear cover \(M680\) on page 122](#).
- Interconnect board (ICB). See [Interconnect board \(ICB\) \(M680\) on page 196](#).
- Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 200](#).
- High-voltage power supply lower. See [High-voltage power supply lower \(HVPS-D\) on page 207](#).



NOTE: This assembly is also called the cartridge duct assembly.

Remove the exhaust fan and fan duct

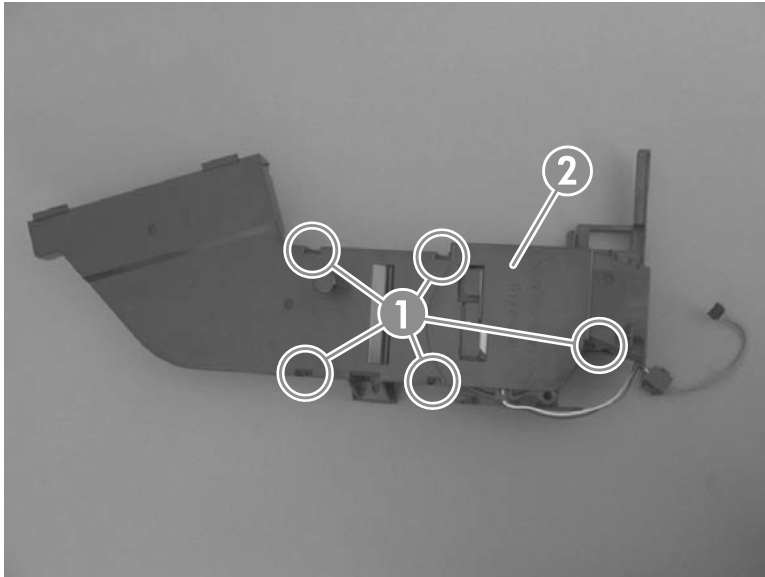
1. Remove two screws (callout 1), disconnect two connectors (callout 2), and then remove the exhaust fan and duct (callout 3) from the product.

Figure 1-326 Remove the exhaust fan and fan duct (1 of 3)



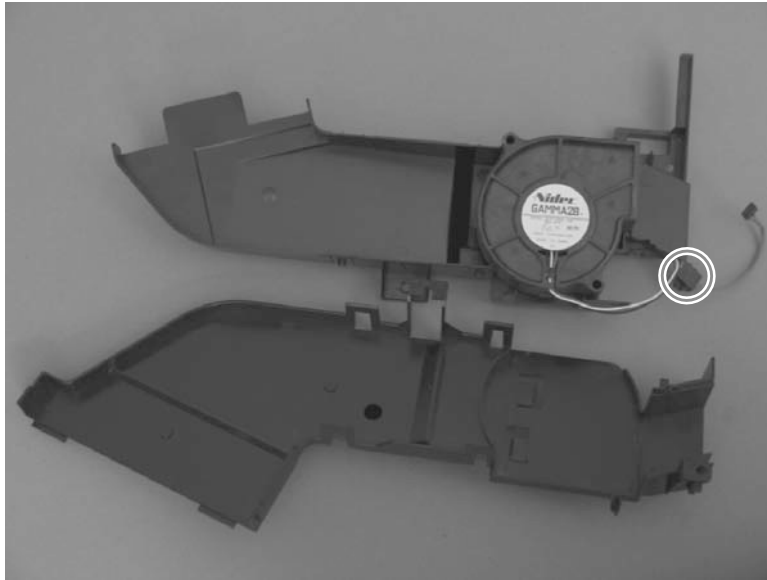
2. Release five tabs (callout 1) and remove the cover (callout 2).

Figure 1-327 Remove the exhaust fan and fan duct (2 of 3)



3. Disconnect one connector, and then remove the fan from the duct.

Figure 1-328 Remove the exhaust fan and fan duct (3 of 3)



Reinstall the exhaust fan and fan duct

Be sure that the ferrite (callout 1) is correctly aligned in the FFC cable guide before attempting to reinstall the exhaust fan and duct.

Figure 1-329 Reinstall the exhaust fan and fan duct



Pickup motor

Before proceeding, remove the following assemblies

M651 models

- Formatter. See [Formatter PCA on page 9](#).
- Upper left cover. See [Upper left cover \(M651\) on page 117](#).
- Left rear cover. See [Left rear cover on page 119](#).
- Rear cover. See [Rear cover \(M651\) on page 121](#).
- Face-down tray. See [Face-down tray \(M651\) on page 134](#).
- Face-down rear cover. See [Face-down rear cover \(M651\) on page 136](#).
- Interconnect board. See [Interconnect board \(ICB\) \(M651\) on page 194](#).
- Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 200](#).

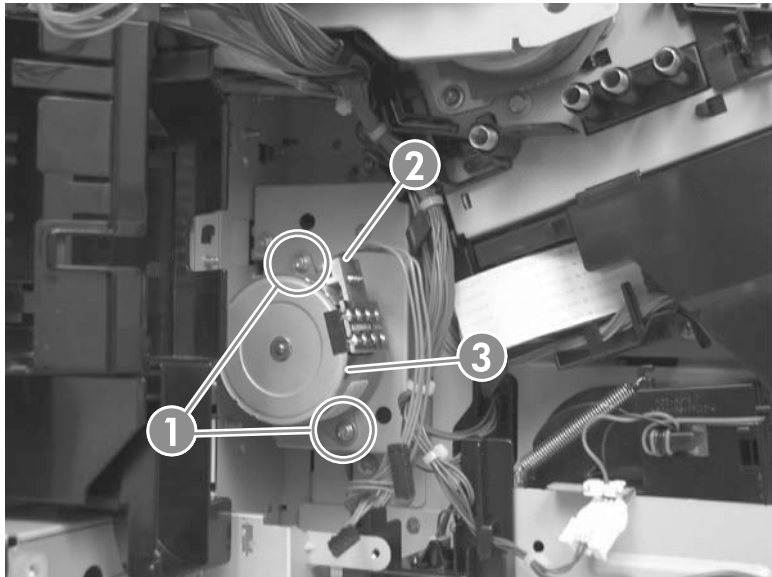
M680 models

- Formatter. See [Formatter PCA on page 9](#).
- Standard output bin. See [Standard output bin \(M680\) on page 52](#).
- Output bin bezel. See [Output bin bezel \(M680\) on page 53](#).
- Scanner rear cover. See [Scanner rear cover on page 79](#).
- Document feeder. See [Document feeder \(ADF\) on page 80](#).
- Scanner assembly. See [Image scanner assembly on page 103](#).
- Fan cover. See [Fan cover \(M680\) on page 118](#).
- Left rear cover. See [Left rear cover on page 119](#).
- Rear cover. See [Rear cover \(M680\) on page 122](#).
- Interconnect board (ICB). See [Interconnect board \(ICB\) \(M680\) on page 196](#).
- Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 200](#).

Remove the pickup motor

Remove two screws (callout 1), disconnect one connector (callout 2), and then remove the motor (callout 3).

Figure 1-330 Remove the pickup motor



Lifter-drive assembly

Before proceeding, remove the following assemblies

M651 models

- Formatter. See [Formatter PCA on page 9](#).
- Upper left cover. See [Upper left cover \(M651\) on page 117](#).
- Left rear cover. See [Left rear cover on page 119](#).
- Rear cover. See [Rear cover \(M651\) on page 121](#).
- Face-down tray. See [Face-down tray \(M651\) on page 134](#).
- Face-down rear cover. See [Face-down rear cover \(M651\) on page 136](#).
- Interconnect board. See [Interconnect board \(ICB\) \(M651\) on page 194](#).
- Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 200](#).
- High-voltage power supply lower. See [High-voltage power supply lower \(HVPS-D\) on page 207](#).

M680 models

- Formatter. See [Formatter PCA on page 9](#).
- Standard output bin. See [Standard output bin \(M680\) on page 52](#).
- Output bin bezel. See [Output bin bezel \(M680\) on page 53](#).
- Scanner rear cover. See [Scanner rear cover on page 79](#).
- Document feeder. See [Document feeder \(ADF\) on page 80](#).
- Scanner assembly. See [Image scanner assembly on page 103](#).
- Fan cover. See [Fan cover \(M680\) on page 118](#).
- Left rear cover. See [Left rear cover on page 119](#).
- Rear cover. See [Rear cover \(M680\) on page 122](#).
- Interconnect board (ICB). See [Interconnect board \(ICB\) \(M680\) on page 196](#).
- Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 200](#).
- High-voltage power supply lower. See [High-voltage power supply lower \(HVPS-D\) on page 207](#).

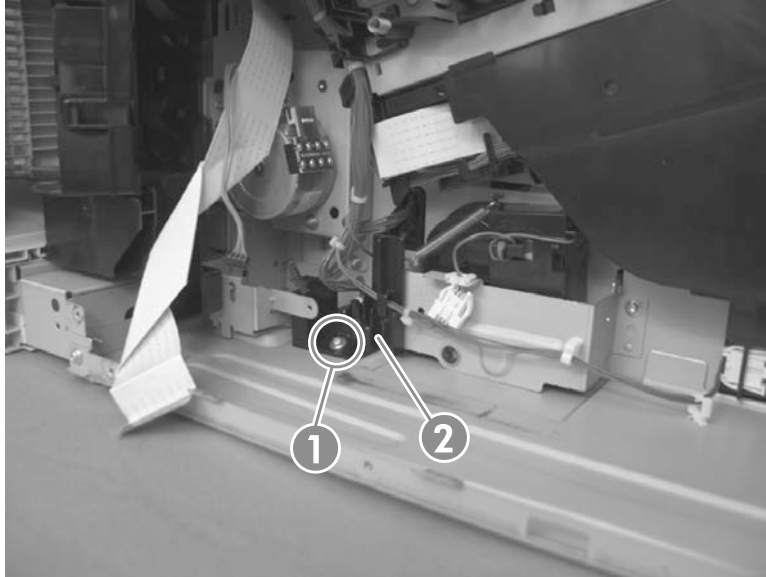
Remove the lifter-drive assembly

1. Remove one screw (callout 1), and then move the accessory-tray connector (callout 2) to access the screw behind it.



Reinstallation tip If the product is installed on the optional paper feeder, slightly separate the product and the feeder assembly to install this connector. Open the right door on the feeder. Use the blue handle to release the product-accessory lock, and then lift up on the edge of the product to create a slight gap between the product and the accessory.

Figure 1-331 Remove the lifter-drive assembly (1 of 3)



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

Figure 1-332 Remove the lifter-drive assembly (2 of 3)

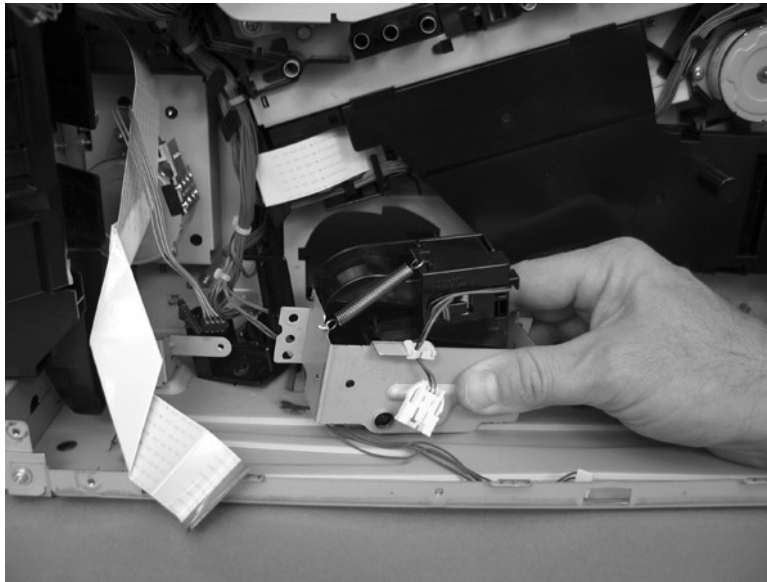


3. Remove the lifter assembly from the product.

⚠ CAUTION: The spring on the assembly is not captive. Do not lose the spring when the assembly is removed.

💡 Reinstallation tip Make sure that the lifter assembly moves up and down easily after reinstalling.

Figure 1-333 Remove the lifter-drive assembly (3 of 3)



Lifter base assembly

Before proceeding, remove the following assemblies

M651 models

- Formatter. See [Formatter PCA on page 9](#).
- Upper left cover. See [Upper left cover \(M651\) on page 117](#).
- Left rear cover. See [Left rear cover on page 119](#).
- Rear cover. See [Rear cover \(M651\) on page 121](#).
- Face-down tray. See [Face-down tray \(M651\) on page 134](#).
- Face-down rear cover. See [Face-down rear cover \(M651\) on page 136](#).
- Interconnect board. See [Interconnect board \(ICB\) \(M651\) on page 194](#).
- Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 200](#).
- High-voltage power supply lower. See [High-voltage power supply lower \(HVPS-D\) on page 207](#).

M680 models

- Formatter. See [Formatter PCA on page 9](#).
- Standard output bin. See [Standard output bin \(M680\) on page 52](#).
- Output bin bezel. See [Output bin bezel \(M680\) on page 53](#).
- Scanner rear cover. See [Scanner rear cover on page 79](#).
- Document feeder. See [Document feeder \(ADF\) on page 80](#).
- Scanner assembly. See [Image scanner assembly on page 103](#).
- Fan cover. See [Fan cover \(M680\) on page 118](#).
- Left rear cover. See [Left rear cover on page 119](#).
- Rear cover. See [Rear cover \(M680\) on page 122](#).
- Interconnect board (ICB). See [Interconnect board \(ICB\) \(M680\) on page 196](#).
- Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 200](#).
- High-voltage power supply lower. See [High-voltage power supply lower \(HVPS-D\) on page 207](#).


Remove the lifter base assembly

1. Disconnect one connector.

Figure 1-334 Remove the lifter base assembly (1 of 2)



2. From inside the Tray 2 cavity, remove four screws, and then remove the lifter base assembly.

 **NOTE:** Pull the assembly straight from the product without tipping to prevent the spring from falling from the assembly.


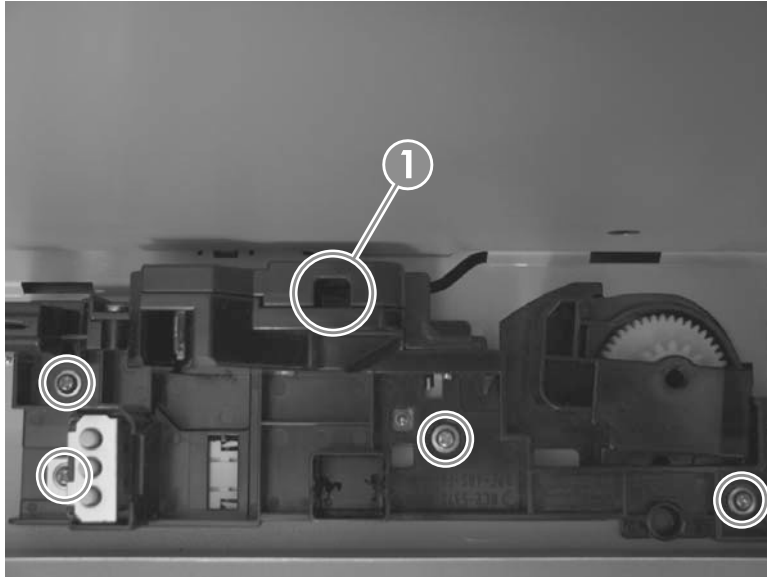
 **Reinstallation tip** If the tray does not completely close when reinstalled, push on the lever in the opening (callout 1) with a flat blade screwdriver to reset the spring in the closing mechanism.

Figure 1-335 Remove the lifter base assembly (2 of 2)



Reinstall the lifter base assembly

If the spring falls from the lifter base assembly, reinstall it in the lifter before reinstalling the lifter base assembly.

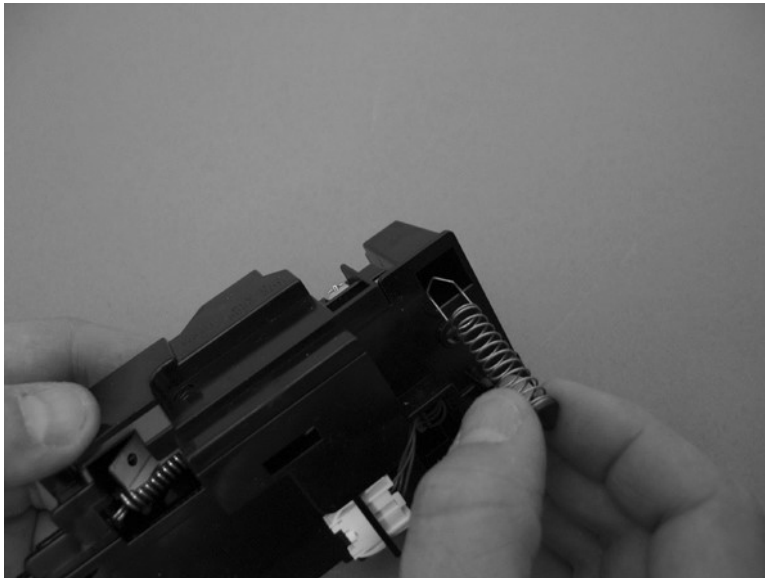
1. Make sure the black rubber end is seated on the spring.

Figure 1-336 Reinstall the lifter base assembly (1 of 2)



2. Place the spring in the lifter before installing the assembly on the product.

Figure 1-337 Reinstall the lifter base assembly (2 of 2)



Paper-pickup drive assembly

Before proceeding, remove the following assemblies

M651 models

- Formatter. See [Formatter PCA on page 9](#).
- Upper left cover. See [Upper left cover \(M651\) on page 117](#).
- Left rear cover. See [Left rear cover on page 119](#).
- Rear cover. See [Rear cover \(M651\) on page 121](#).
- Face-down tray. See [Face-down tray \(M651\) on page 134](#).
- Face-down rear cover. See [Face-down rear cover \(M651\) on page 136](#).
- Power-supply fan. See [Power-supply fan \(M651\) on page 190](#).
- Interconnect board. See [Interconnect board \(ICB\) \(M651\) on page 194](#).
- Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 200](#).
- power supply lower. See [High-voltage power supply lower \(HVPS-D\) on page 207](#).

M680 models

- Formatter. See [Formatter PCA on page 9](#).
- Standard output bin. See [Standard output bin \(M680\) on page 52](#).
- Output bin bezel. See [Output bin bezel \(M680\) on page 53](#).
- Scanner rear cover. See [Scanner rear cover on page 79](#).
- Document feeder. See [Document feeder \(ADF\) on page 80](#).
- Scanner assembly. See [Image scanner assembly on page 103](#).
- Fan cover. See [Fan cover \(M680\) on page 118](#).
- Left rear cover. See [Left rear cover on page 119](#).
- Rear cover. See [Rear cover \(M680\) on page 122](#).
- Power-supply fan. See [Power-supply fan \(M680\) on page 192](#).
- Interconnect board (ICB). See [Interconnect board \(ICB\) \(M680\) on page 196](#).
- Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 200](#).
- High-voltage power supply lower. See [High-voltage power supply lower \(HVPS-D\) on page 207](#).

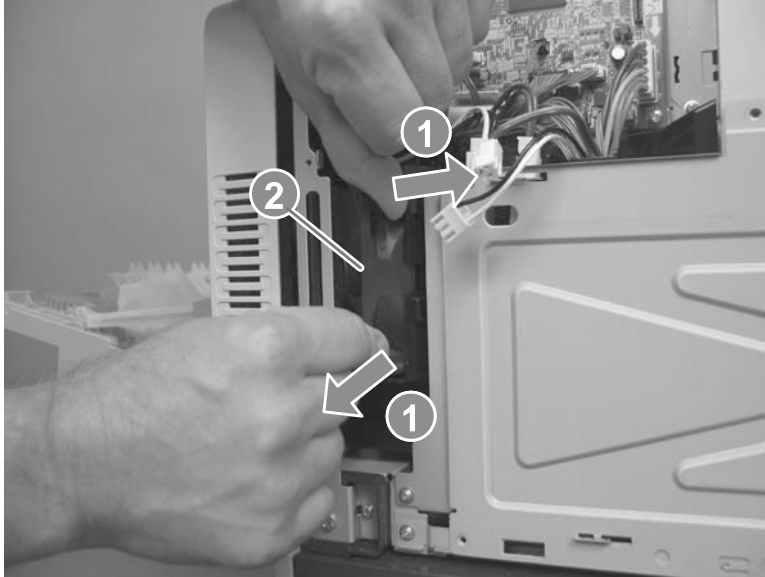
Remove the paper-pickup drive assembly



NOTE: To remove the pickup motor only, see [Pickup motor on page 216](#).

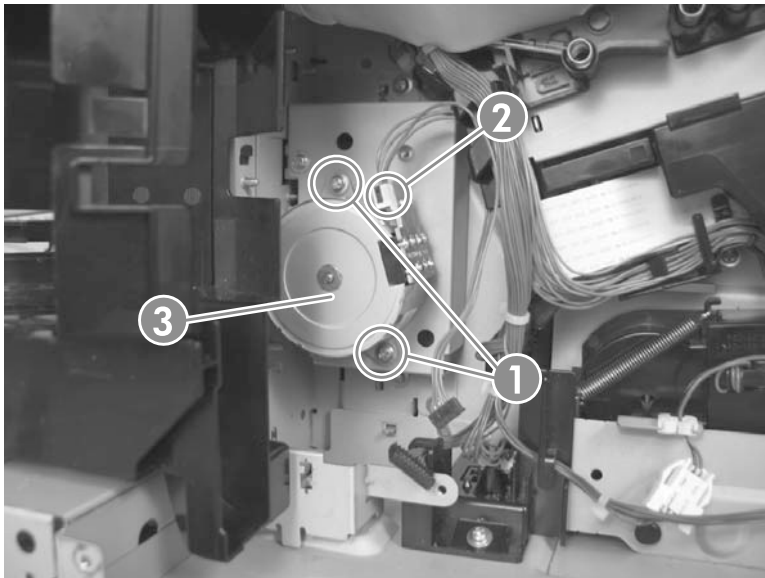
1. Release one tab (callout 1), and then remove the power-supply fan (callout 2).

Figure 1-338 Remove the paper-pickup drive assembly (1 of 3)



2. Remove two screws (callout 1), disconnect one connector (callout 2), and then remove the pickup motor (callout 3).

Figure 1-339 Remove the paper-pickup drive assembly (2 of 3)



3. Remove three screws, and then remove the paper-pickup drive assembly.


 **NOTE:** The cams on the main-drive assembly can prevent the paper-pickup drive assembly from releasing from the product. If the assembly cannot be removed, remove the DC controller and tray to provide additional space. See [DC controller PCA and tray on page 204](#). The wire guide from the main-drive assembly might also need to be removed. See [Main-drive assembly on page 252](#).

Figure 1-340 Remove the paper-pickup drive assembly (3 of 3)



Paper-pickup assembly

Before proceeding, remove the following assemblies

M651 models

- Formatter. See [Formatter PCA on page 9](#).
- Intermediate transfer belt (ITB). See [Intermediate transfer belt \(ITB\) on page 25](#).
- Upper left cover. See [Upper left cover \(M651\) on page 117](#).
- Left rear cover. See [Left rear cover on page 119](#).
- Rear cover. See [Rear cover \(M651\) on page 121](#).
- Face-down tray. See [Face-down tray \(M651\) on page 134](#).
- Face-down rear cover. See [Face-down rear cover \(M651\) on page 136](#).
- Secondary transfer assembly. See [Secondary transfer assembly on page 152](#).
- Registration assembly. See [Registration assembly on page 161](#).
- Interconnect board. See [Interconnect board \(ICB\) \(M651\) on page 194](#).
- Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 200](#).
- High-voltage power supply lower. See [High-voltage power supply lower \(HVPS-D\) on page 207](#).

M680 models

- Formatter. See [Formatter PCA on page 9](#).
- Intermediate transfer belt (ITB). See [Intermediate transfer belt \(ITB\) on page 25](#).
- Standard output bin. See [Standard output bin \(M680\) on page 52](#).
- Output bin bezel. See [Output bin bezel \(M680\) on page 53](#).
- Scanner rear cover. See [Scanner rear cover on page 79](#).
- Document feeder. See [Document feeder \(ADF\) on page 80](#).
- Scanner assembly. See [Image scanner assembly on page 103](#).
- Fan cover. See [Fan cover \(M680\) on page 118](#).
- Left rear cover. See [Left rear cover on page 119](#).
- Rear cover. See [Rear cover \(M680\) on page 122](#).
- Secondary transfer assembly. See [Secondary transfer assembly on page 152](#).
- Registration assembly. See [Registration assembly on page 161](#).
- Interconnect board (ICB). See [Interconnect board \(ICB\) \(M680\) on page 196](#).
- Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 200](#).
- High-voltage power supply lower. See [High-voltage power supply lower \(HVPS-D\) on page 207](#).

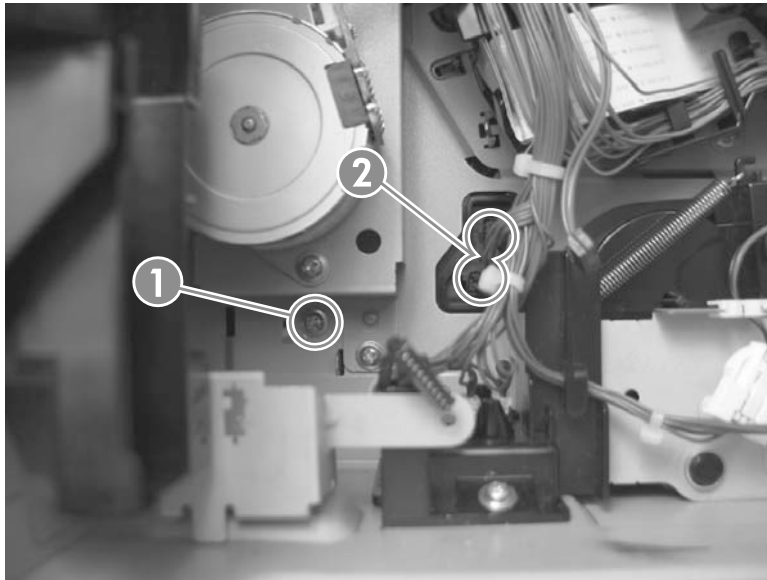
Remove the paper-pickup assembly



NOTE: This task requires removing the three feed guides on the right side of the product before removing the paper-pickup assembly.

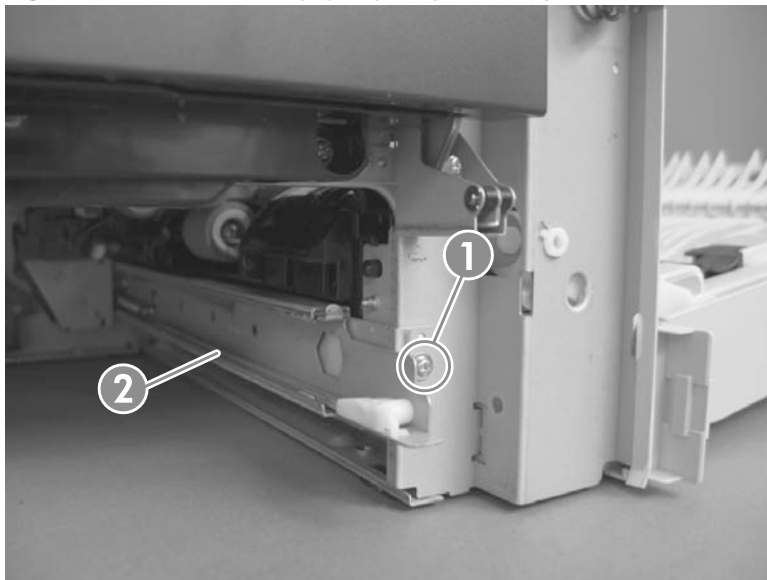
1. Remove one screw (callout 1), and then disconnect two connectors (callout 2).

Figure 1-341 Remove the paper-pickup assembly (1 of 11)



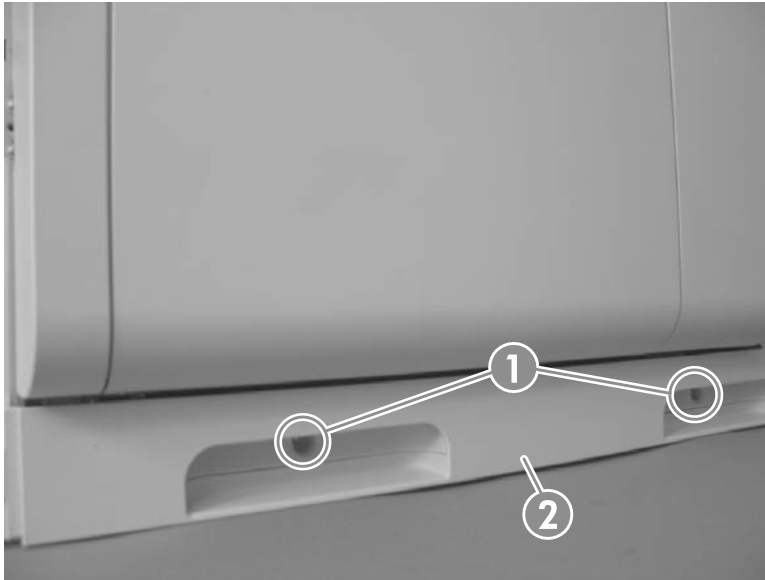
2. From the front of the product, remove one screw (callout 1), and then remove one tray rail (callout 2).

Figure 1-342 Remove the paper-pickup assembly (2 of 11)



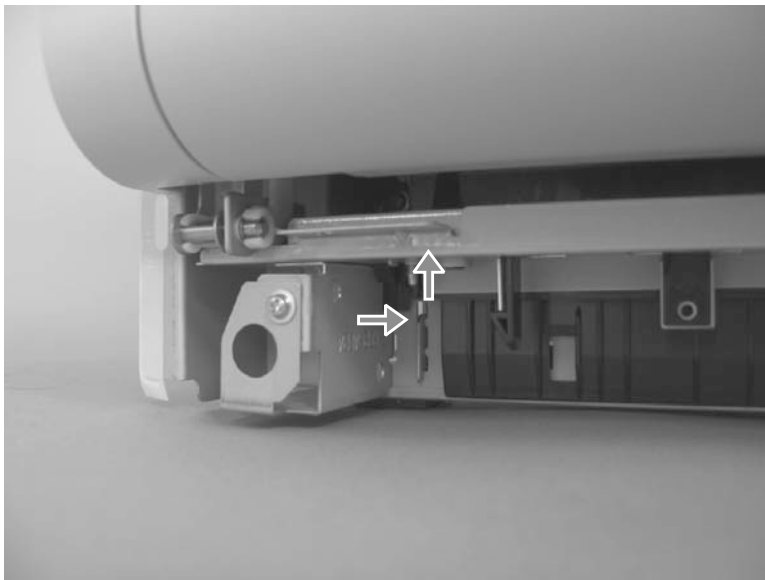
3. From the right side of the product, remove two screws (callout 1) and one cover (callout 2).

Figure 1-343 Remove the paper-pickup assembly (3 of 11)



4. Close the right-door assembly. Push in and then push up on the stopper to release.

Figure 1-344 Remove the paper-pickup assembly (4 of 11)



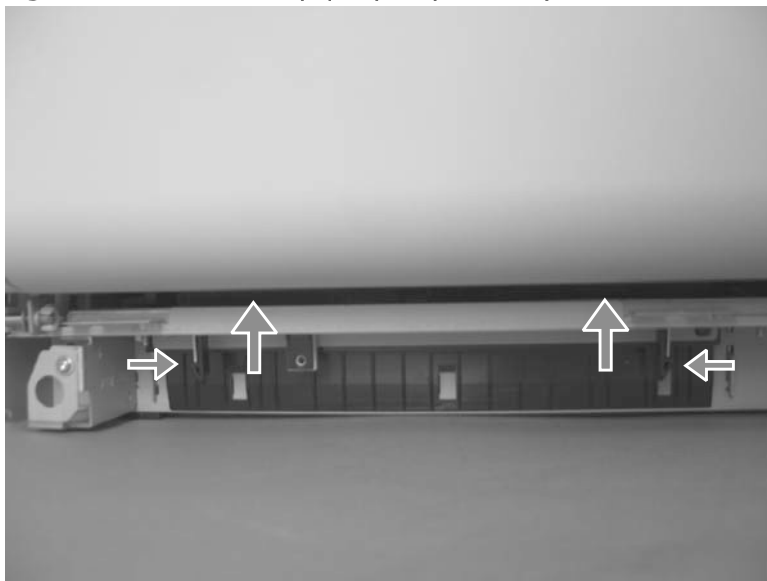
5. Open the right-door assembly. Lift the two link arms (callout 1) to release from the product, and then remove the paper guide (callout 2).

Figure 1-345 Remove the paper-pickup assembly (5 of 11)



6. Close the right-door assembly. Push the two tabs toward each other, and then push up to release the feed guide.

Figure 1-346 Remove the paper-pickup assembly (6 of 11)



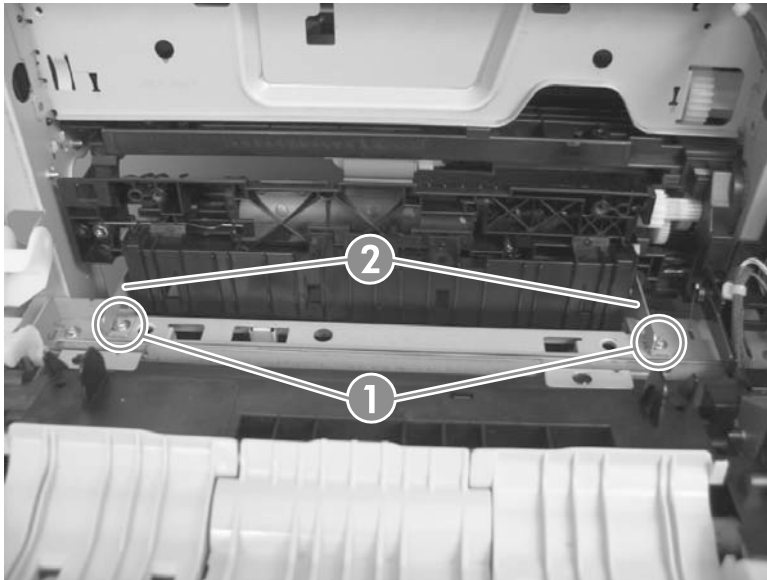
7. Open the right-door assembly, and then remove the feed guide.

Figure 1-347 Remove the paper-pickup assembly (7 of 11)



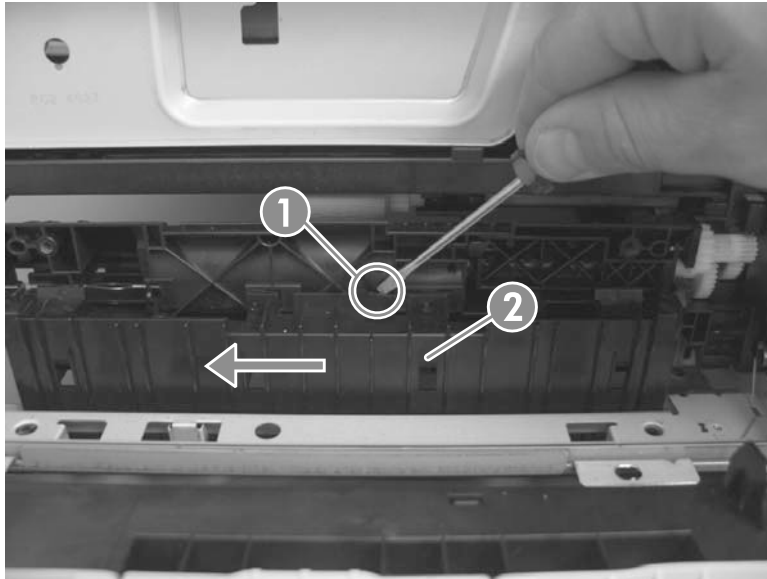
8. Remove two screws (callout 1), and then remove two brackets (callout 2).

Figure 1-348 Remove the paper-pickup assembly (8 of 11)



9. Release one tab (callout 1), and then slide the feed guide (callout 2) toward the front of the product to remove.

Figure 1-349 Remove the paper-pickup assembly (9 of 11)



10. Remove one screw.

Figure 1-350 Remove the paper-pickup assembly (10 of 11)



11. Remove the paper-pickup assembly.

Figure 1-351 Remove the paper-pickup assembly (11 of 11)



Laser/scanner assembly (Y/M)

Before proceeding, remove the following assemblies


M651 models


- Toner-collection unit. See [Toner-collection unit on page 6](#).
- Formatter. See [Formatter PCA on page 9](#).
- Intermediate transfer belt (ITB). See [Intermediate transfer belt \(ITB\) on page 25](#).
- Upper left cover. See [Upper left cover \(M651\) on page 117](#).
- Left rear cover. See [Left rear cover on page 119](#).
- Rear cover. See [Rear cover \(M651\) on page 121](#).
- Face-down tray. See [Face-down tray \(M651\) on page 134](#).
- Face-down rear cover. See [Face-down rear cover \(M651\) on page 136](#).
- Cartridge fan and environmental sensor. See [Cartridge fan and environmental sensor on page 174](#).
- Residual toner full sensor. See [Residual toner full sensor on page 178](#).
- Interconnect board. See [Interconnect board \(ICB\) \(M651\) on page 194](#).
- Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 200](#).
- High-voltage power supply lower. See [High-voltage power supply lower \(HVPS-D\) on page 207](#).
- Exhaust fan and fan duct. See [Exhaust fan and fan duct on page 213](#).

M680 models

- Toner-collection unit. See [Toner-collection unit on page 6](#).
- Formatter. See [Formatter PCA on page 9](#).
- Intermediate transfer belt (ITB). See [Intermediate transfer belt \(ITB\) on page 25](#).
- Standard output bin. See [Standard output bin \(M680\) on page 52](#).
- Output bin bezel. See [Output bin bezel \(M680\) on page 53](#).
- Scanner rear cover. See [Scanner rear cover on page 79](#).
- Document feeder. See [Document feeder \(ADF\) on page 80](#).
- Scanner assembly. See [Image scanner assembly on page 103](#).
- Fan cover. See [Fan cover \(M680\) on page 118](#).
- Left rear cover. See [Left rear cover on page 119](#).
- Rear cover. See [Rear cover \(M680\) on page 122](#).
- Cartridge fan and environmental sensor. See [Cartridge fan and environmental sensor on page 174](#).
- Residual toner full sensor. See [Residual toner full sensor on page 178](#).
- Interconnect board (ICB). See [Interconnect board \(ICB\) \(M680\) on page 196](#).
- Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 200](#).
- High-voltage power supply lower. See [High-voltage power supply lower \(HVPS-D\) on page 207](#).
- Exhaust fan and fan duct. See [Exhaust fan and fan duct on page 213](#).

Remove the laser/scanner assembly (Y/M)

 **NOTE:** The product has two laser/scanner assemblies. The yellow/magenta laser/scanner is removed first, and it is to the left of the cyan/black laser/scanner.

 **Reinstallation tip** After installing a new laser/scanner assembly, be sure to calibrate the product.

1. Release one spring.


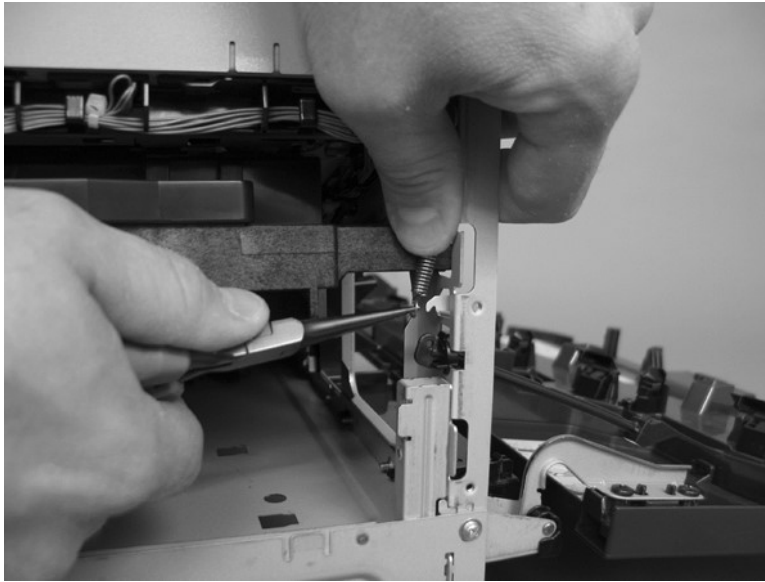
 **CAUTION:** The spring is not captive. Do not lose the spring when it is removed. Use a pair of needle-nose pliers to safely retain the spring when it is removed. Do not use a flat blade screwdriver to remove the spring; the spring could forcibly leave the product and cause personal injury.

Figure 1-352 Remove the laser/scanner assembly (Y/M; 1 of 5)



2. Disconnect one connector.

Figure 1-353 Remove the laser/scanner assembly (Y/M; 2 of 5)



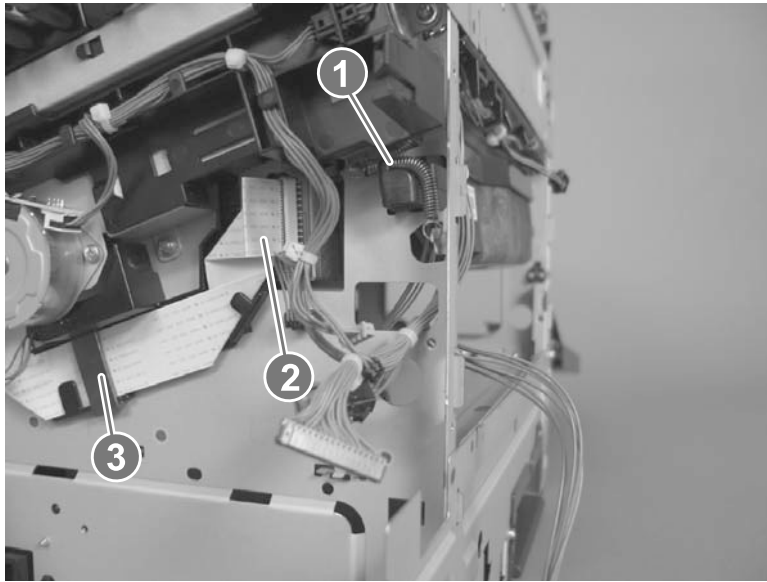
3. Release one spring (callout 1), and then disconnect one FFC (callout 2).

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

💡 Reinstallation tip When reinstalled, the ferrite (callout 3) must be correctly positioned on the wire guide (in the provided slots) so that the fan duct will fully seat in the product when it is reinstalled.

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

Figure 1-354 Remove the laser/scanner assembly (Y/M; 3 of 5)



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


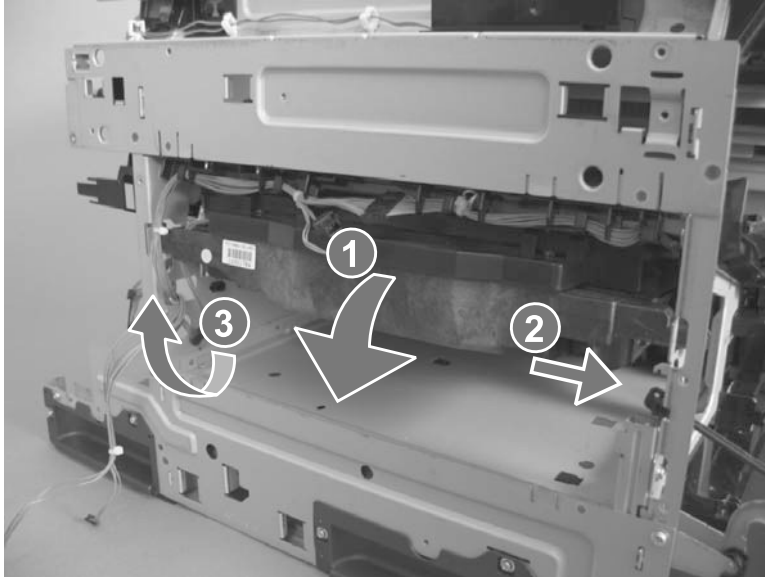
 **Reinstallation tip** When the scanner is reinstalled, make sure that the tab on the front of the laser/scanner is inserted in the alignment hole in the product chassis. See callout 1 in [Figure 1-356 Remove the laser/scanner assembly \(Y/M; 5 of 5\)](#) on page 236

Figure 1-355 Remove the laser/scanner assembly (Y/M; 4 of 5).



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


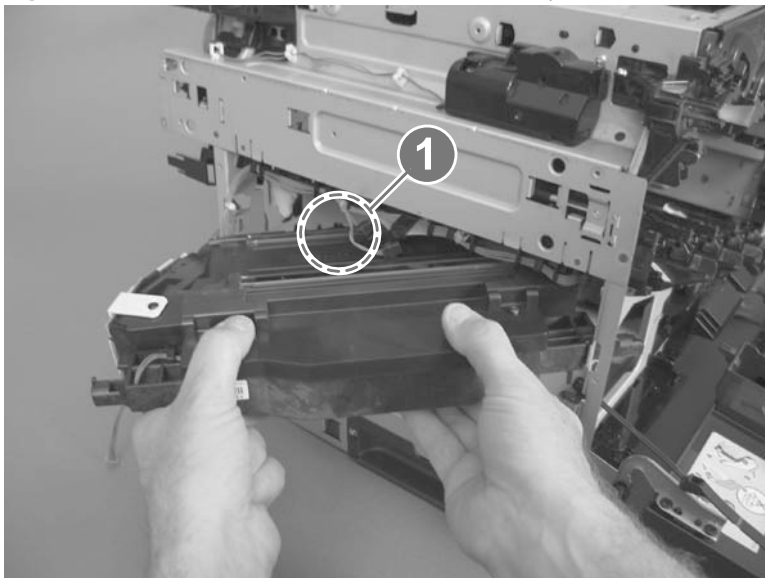
 **Reinstallation tip** When the scanner is removed, locate the alignment tab (callout 1) on the front of the laser/scanner. The tab must be inserted in the alignment hole in the product chassis when the assembly is reinstalled.

Figure 1-356 Remove the laser/scanner assembly (Y/M; 5 of 5)



Laser/scanner assembly (C/K)

Before proceeding, remove the following assemblies


M651 models

- Toner-collection unit. See [Toner-collection unit on page 6](#).
- Formatter. See [Formatter PCA on page 9](#).
- Intermediate transfer belt (ITB). See [Intermediate transfer belt \(ITB\) on page 25](#).
- Upper left cover. See [Upper left cover \(M651\) on page 117](#).
- Left rear cover. See [Left rear cover on page 119](#).
- Rear cover. See [Rear cover \(M651\) on page 121](#).
- Face-down tray. See [Face-down tray \(M651\) on page 134](#).
- Face-down rear cover. See [Face-down rear cover \(M651\) on page 136](#).
- Cartridge fan and environmental sensor. See [Cartridge fan and environmental sensor on page 174](#).
- Residual toner full sensor. See [Residual toner full sensor on page 178](#).
- Interconnect board. See [Interconnect board \(ICB\) \(M651\) on page 194](#).
- Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 200](#).
- High-voltage power supply lower. See [High-voltage power supply lower \(HVPS-D\) on page 207](#).
- Exhaust fan and fan duct. See [Exhaust fan and fan duct on page 213](#).
- Laser/scanner assembly (Y/M). See [Laser/scanner assembly \(Y/M\) on page 233](#).


M680 models

- Toner-collection unit. See [Toner-collection unit on page 6](#).
- Formatter. See [Formatter PCA on page 9](#).
- Intermediate transfer belt (ITB). See [Intermediate transfer belt \(ITB\) on page 25](#).
- Standard output bin. See [Standard output bin \(M680\) on page 52](#).
- Output bin bezel. See [Output bin bezel \(M680\) on page 53](#).
- Scanner rear cover. See [Scanner rear cover on page 79](#).
- Document feeder. See [Document feeder \(ADF\) on page 80](#).
- Scanner assembly. See [Image scanner assembly on page 103](#).
- Fan cover. See [Fan cover \(M680\) on page 118](#).
- Left rear cover. See [Left rear cover on page 119](#).
- Rear cover. See [Rear cover \(M680\) on page 122](#).
- Cartridge fan and environmental sensor. See [Cartridge fan and environmental sensor on page 174](#).
- Residual toner full sensor. See [Residual toner full sensor on page 178](#).
- Interconnect board (ICB). See [Interconnect board \(ICB\) \(M680\) on page 196](#).
- Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 200](#).
- High-voltage power supply lower. See [High-voltage power supply lower \(HVPS-D\) on page 207](#).
- Exhaust fan and fan duct. See [Exhaust fan and fan duct on page 213](#).
- Laser/scanner assembly (Y/M). See [Laser/scanner assembly \(Y/M\) on page 233](#).

Remove the laser/scanner assembly (C/K)

 **Reinstallation tip** After installing a new laser/scanner assembly, be sure to calibrate the product.

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

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


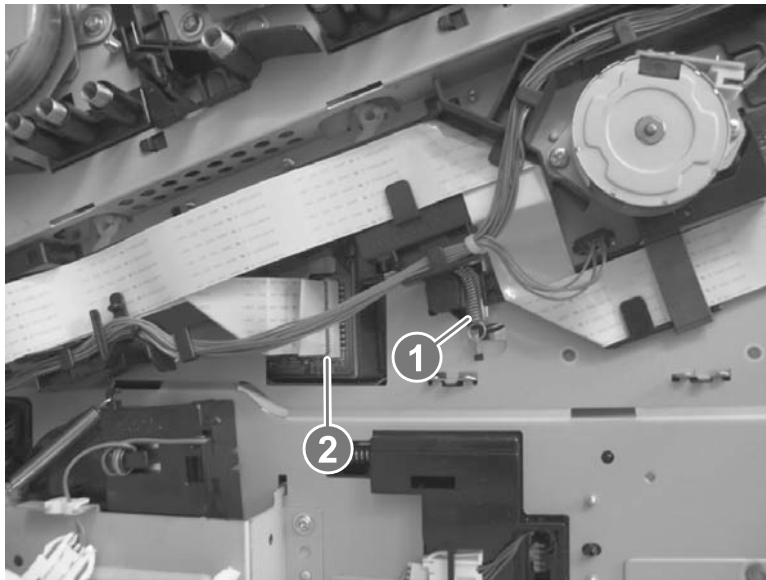
 **Reinstallation tip** When the spring is reinstalled, make sure that the laser/scanner fits tightly up against the product chassis, and make sure that the FFC is fully seated in the connector. The locator tabs on the front of the scanner must be firmly seated in the slots in the chassis.

Figure 1-357 Remove the laser/scanner assembly (C/K; 1 of 5)



2. Disconnect one connector.

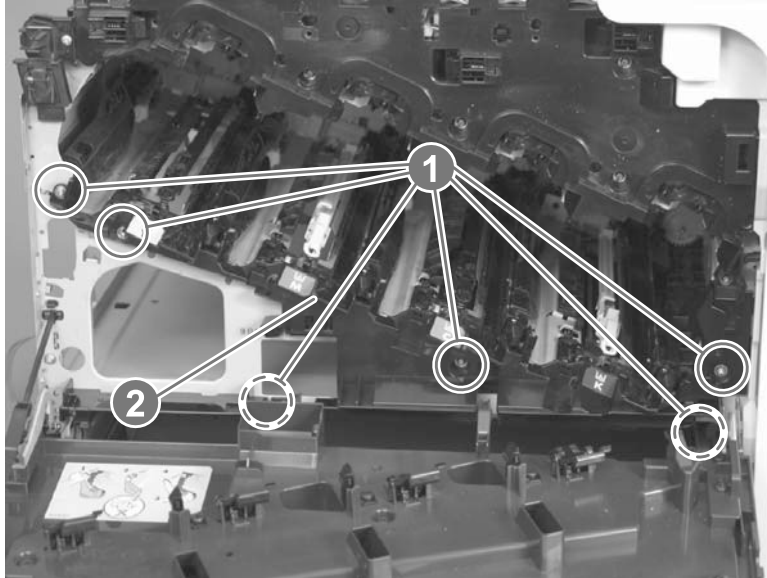
Figure 1-358 Remove the laser/scanner assembly (C/K; 2 of 5)



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

⚠ CAUTION: Be careful. The PGC actuators are easily dislodged when the cover is removed. See [Figure 1-362 Reinstall the PGC actuators \(1 of 5\) on page 240](#). To reinstall the actuators, see [Reinstall the protective glass cleaner \(PGC\) actuators on page 240](#).

Figure 1-359 Remove the laser/scanner assembly (C/K; 3 of 5)

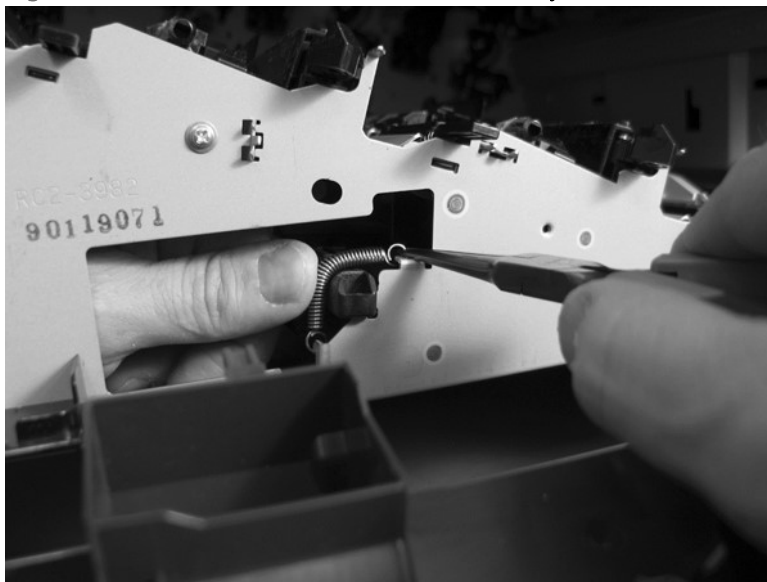


4. Release one spring.

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

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

Figure 1-360 Remove the laser/scanner assembly (C/K; 4 of 5)



5. Rotate the corner of the assembly away from the product until the PCA is visible, and then remove the assembly from the product.


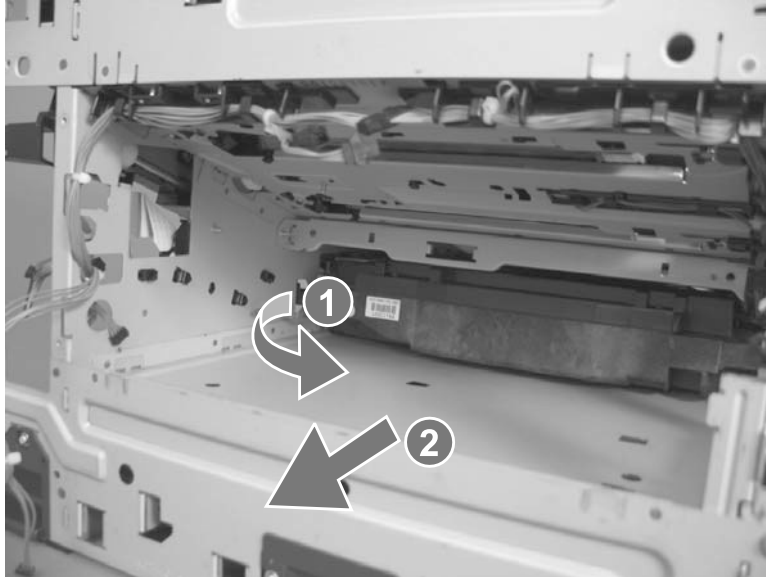
 **Reinstallation tip** When the laser/scanner is correctly positioned in the chassis, the plastic parts which protrude at the front and rear of the product will be firmly seated against the locator tabs on the chassis. Verify that the assembly is correctly seated, and then install the spring.

Figure 1-361 Remove the laser/scanner assembly (C/K; 5 of 5)



Reinstall the protective glass cleaner (PGC) actuators

1. The following figure shows a dislodged PGC actuator.


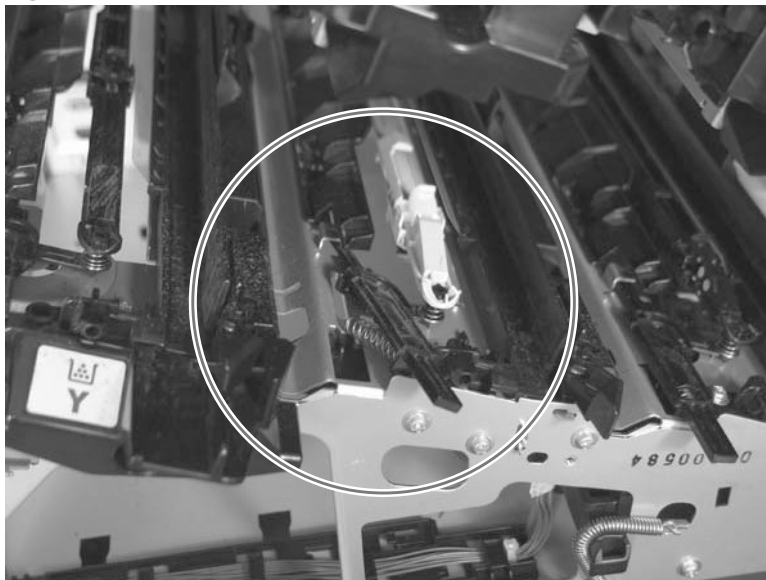
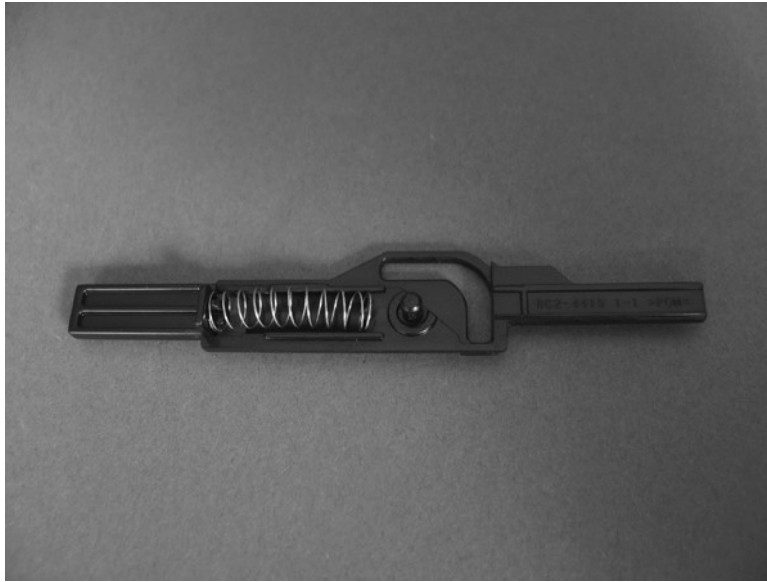
 **TIP:** If the actuator and spring are only slightly dislodged, it might be easy to push them back into place.

Figure 1-362 Reinstall the PGC actuators (1 of 5)



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

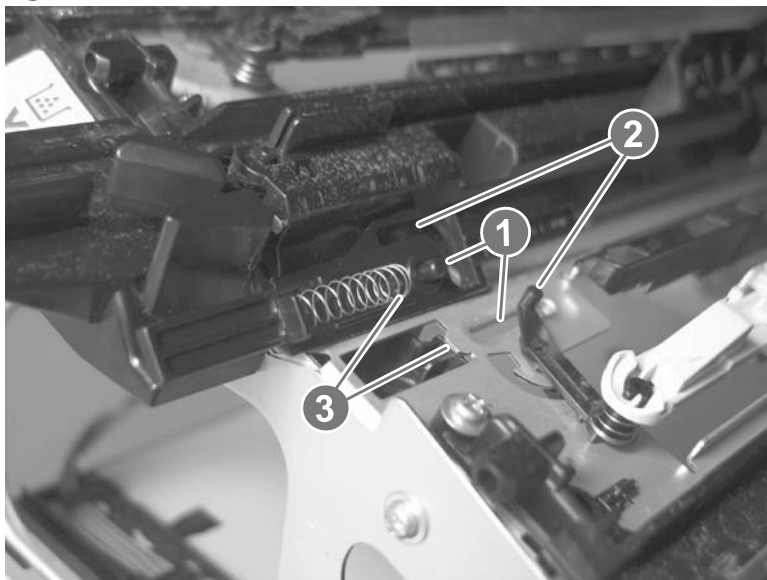
Figure 1-363 Reinstall the PGC actuators (2 of 5)



3. Before proceeding, take note of the following:

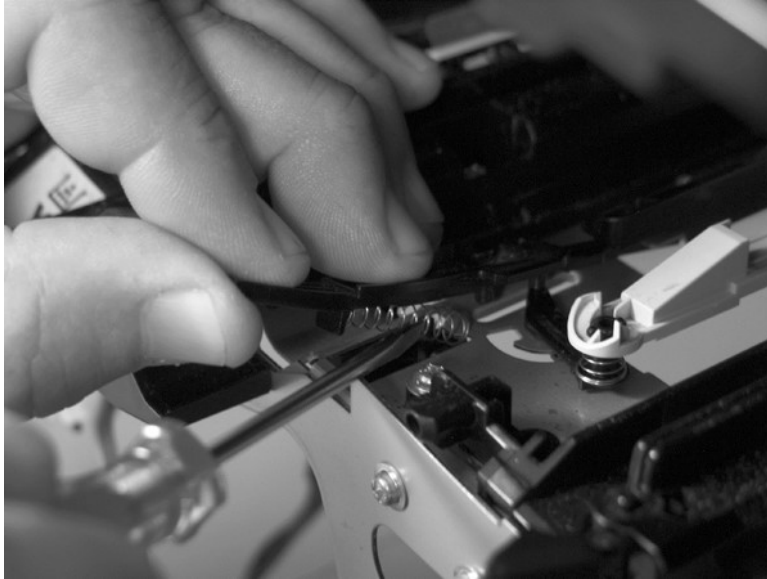
- **Callout 1:** The pin on the actuator will be installed into the slot in the chassis.
- **Callout 2:** The pin on the pivot arm will be installed into the slot on the actuator.
- **Callout 3:** The end of the spring will be installed onto the tab on the chassis.

Figure 1-364 Reinstall the PGC actuators (3 of 5)



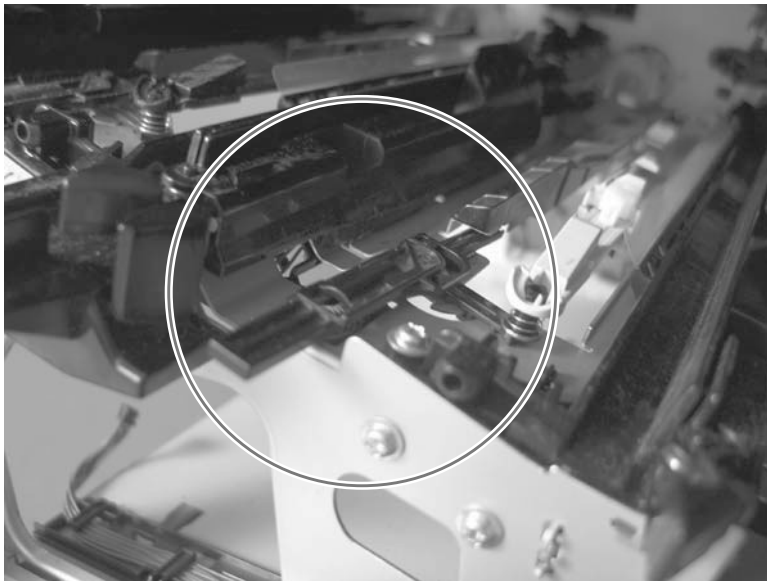
4. Place the end of the actuator into the PGC rod, and then use a small flat blade screw driver to fasten the end of the spring on the tab on the chassis.

Figure 1-365 Reinstall the PGC actuators (4 of 5)



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

Figure 1-366 Reinstall the PGC actuators (5 of 5)



High-voltage power supply upper (HVPS-T)

Before proceeding, remove the following assemblies

M651 models

- Formatter. See [Formatter PCA on page 9](#).
- Upper left cover. See [Upper left cover \(M651\) on page 117](#).
- Left rear cover. See [Left rear cover on page 119](#).
- Rear cover. See [Rear cover \(M651\) on page 121](#).
- Face-down tray. See [Face-down tray \(M651\) on page 134](#).
- Face-down rear cover. See [Face-down rear cover \(M651\) on page 136](#).
- Interconnect board. See [Interconnect board \(ICB\) \(M651\) on page 194](#).
- Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 200](#).
- DC controller and tray. See [DC controller PCA and tray on page 204](#).

M680 models

- Formatter. See [Formatter PCA on page 9](#).
- Standard output bin. See [Standard output bin \(M680\) on page 52](#).
- Output bin bezel. See [Output bin bezel \(M680\) on page 53](#).
- Scanner rear cover. See [Scanner rear cover on page 79](#).
- Document feeder. See [Document feeder \(ADF\) on page 80](#).
- Scanner assembly. See [Image scanner assembly on page 103](#).
- Fan cover. See [Fan cover \(M680\) on page 118](#).
- Left rear cover. See [Left rear cover on page 119](#).
- Rear cover. See [Rear cover \(M680\) on page 122](#).
- Interconnect board (ICB). See [Interconnect board \(ICB\) \(M680\) on page 196](#).
- Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 200](#).
- DC controller and tray. See [DC controller PCA and tray on page 204](#).



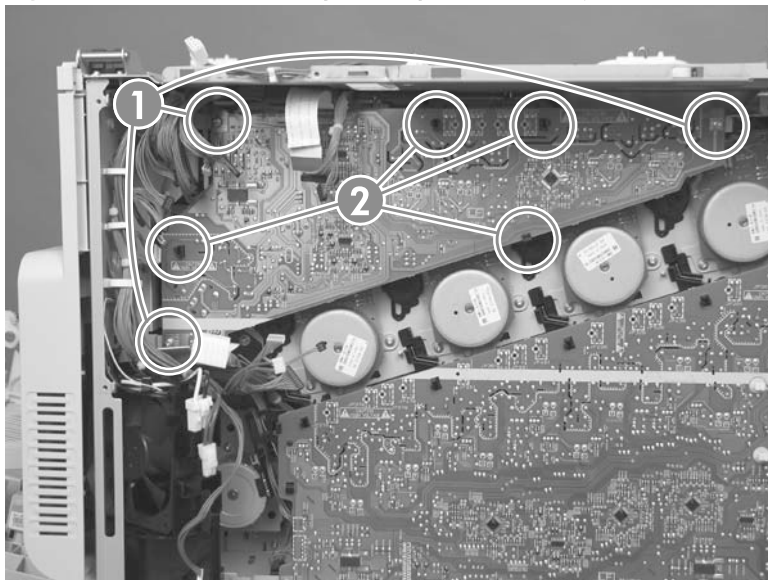
NOTE: This assembly is also called the high-voltage power supply PCA upper assembly.

Remove the high-voltage power supply upper

 **CAUTION:**  ESD-sensitive assembly.

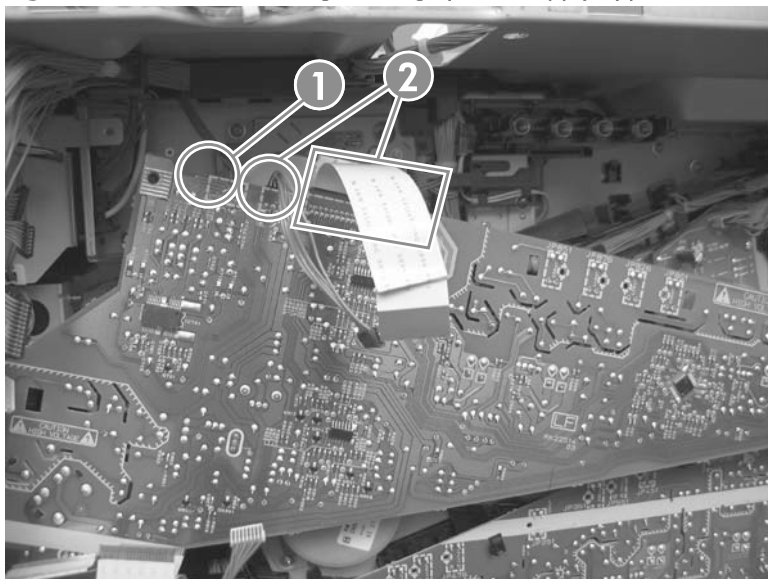
1. Remove three screws (callout 1), and then release four tabs (callout 2).

Figure 1-367 Remove the high-voltage power supply upper (1 of 2)



2. Disconnect one connector (callout 1) and then remove the power supply. **Do not** disconnect two connectors (callout 2).

Figure 1-368 Remove the high-voltage power supply upper (2 of 2)



Reinstall the high-voltage power supply upper

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


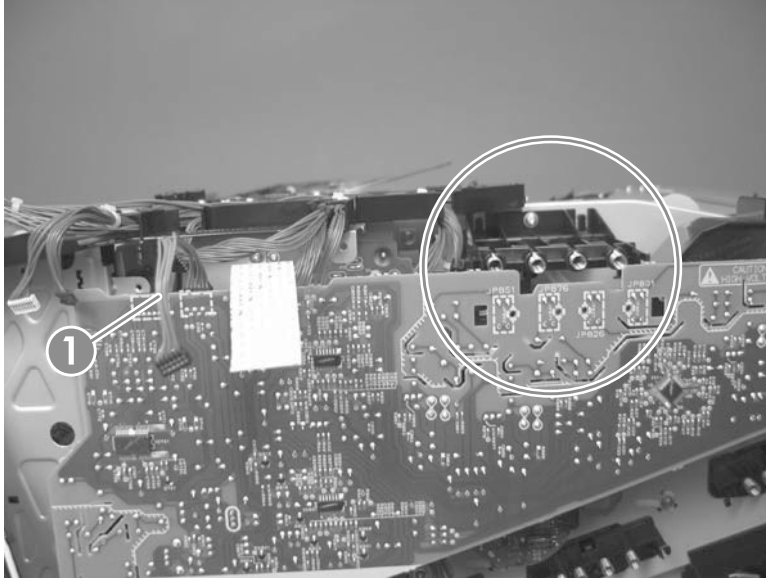
 **NOTE:** For a replacement power supply, remove one wire harness (callout 1) and then install it on the replacement power supply.

Figure 1-369 Reinstall the high-voltage power supply upper



Yellow, magenta, cyan, and black drum motors

Before proceeding, remove the following assemblies

M651 models

- Formatter. See [Formatter PCA on page 9](#).
- Upper left cover. See [Upper left cover \(M651\) on page 117](#).
- Left rear cover. See [Left rear cover on page 119](#).
- Rear cover. See [Rear cover \(M651\) on page 121](#).
- Face-down tray. See [Face-down tray \(M651\) on page 134](#).
- Face-down rear cover. See [Face-down rear cover \(M651\) on page 136](#).
- Interconnect board. See [Interconnect board \(ICB\) \(M651\) on page 194](#).
- Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 200](#).
- DC controller and tray. See [DC controller PCA and tray on page 204](#).
- High-voltage power supply upper (HVPS-T). See [High-voltage power supply upper \(HVPS-T\) on page 243](#).

M680 models

- Formatter. See [Formatter PCA on page 9](#).
- Standard output bin. See [Standard output bin \(M680\) on page 52](#).
- Output bin bezel. See [Output bin bezel \(M680\) on page 53](#).
- Scanner rear cover. See [Scanner rear cover on page 79](#).
- Document feeder. See [Document feeder \(ADF\) on page 80](#).
- Scanner assembly. See [Image scanner assembly on page 103](#).
- Fan cover. See [Fan cover \(M680\) on page 118](#).
- Left rear cover. See [Left rear cover on page 119](#).
- Rear cover. See [Rear cover \(M680\) on page 122](#).
- Interconnect board (ICB). See [Interconnect board \(ICB\) \(M680\) on page 196](#).
- Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 200](#).
- DC controller and tray. See [DC controller PCA and tray on page 204](#).
- High-voltage power supply upper (HVPS-T). See [High-voltage power supply upper \(HVPS-T\) on page 243](#).

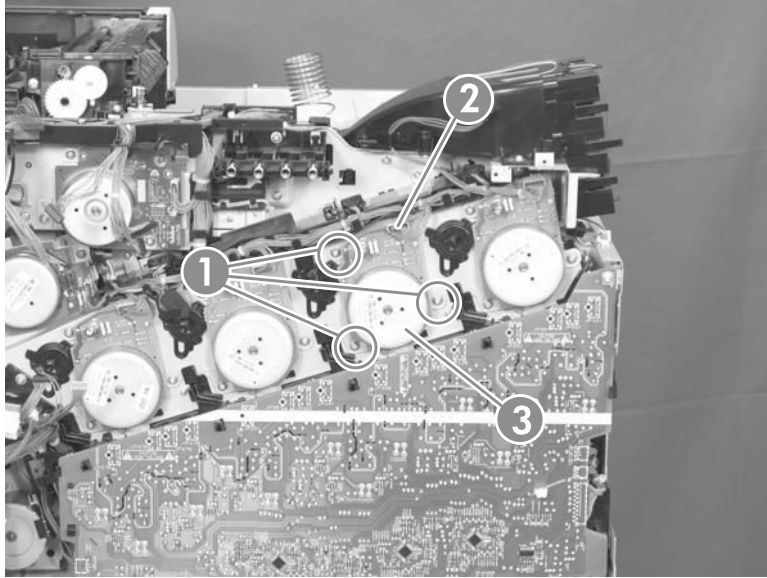


NOTE: This assembly is also called the main DC motor assembly.

Remove the yellow, magenta, cyan, and black drum motors

- ▲ For each motor, remove three screws (callout 1), disconnect one connector (callout 2), and then remove the motor (callout 3)

Figure 1-370 Remove the yellow, magenta, cyan, and black drum motors



Fuser motor

Before proceeding, remove the following assemblies

M651 models

- Formatter. See [Formatter PCA on page 9](#).
- Upper left cover. See [Upper left cover \(M651\) on page 117](#).
- Left rear cover. See [Left rear cover on page 119](#).
- Rear cover. See [Rear cover \(M651\) on page 121](#).
- Face-down tray. See [Face-down tray \(M651\) on page 134](#).
- Face-down rear cover. See [Face-down rear cover \(M651\) on page 136](#).
- Interconnect board. See [Interconnect board \(ICB\) \(M651\) on page 194](#).
- Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 200](#).
- DC controller and tray. See [DC controller PCA and tray on page 204](#).
- High-voltage power supply upper (HVPS-T). See [High-voltage power supply upper \(HVPS-T\) on page 243](#).

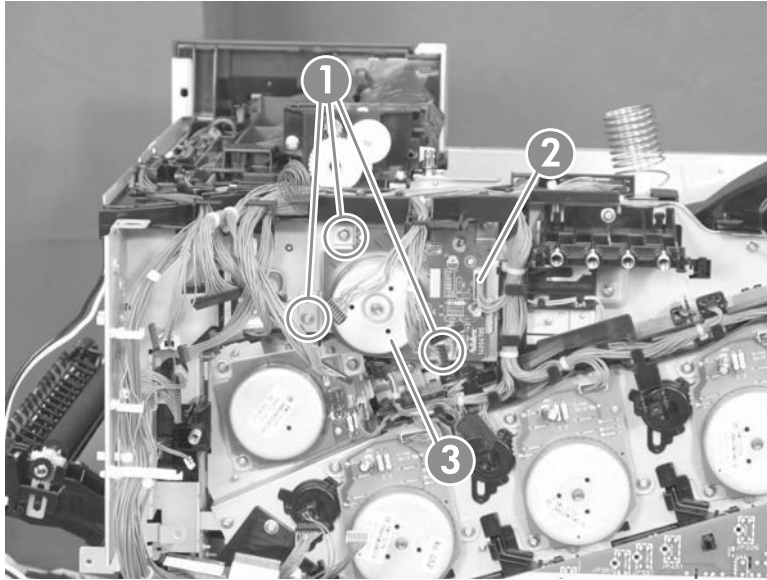
M680 models

- Formatter. See [Formatter PCA on page 9](#).
- Standard output bin. See [Standard output bin \(M680\) on page 52](#).
- Output bin bezel. See [Output bin bezel \(M680\) on page 53](#).
- Scanner rear cover. See [Scanner rear cover on page 79](#).
- Document feeder. See [Document feeder \(ADF\) on page 80](#).
- Scanner assembly. See [Image scanner assembly on page 103](#).
- Fan cover. See [Fan cover \(M680\) on page 118](#).
- Left rear cover. See [Left rear cover on page 119](#).
- Rear cover. See [Rear cover \(M680\) on page 122](#).
- Interconnect board (ICB). See [Interconnect board \(ICB\) \(M680\) on page 196](#).
- Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 200](#).
- DC controller and tray. See [DC controller PCA and tray on page 204](#).
- High-voltage power supply upper (HVPS-T). See [High-voltage power supply upper \(HVPS-T\) on page 243](#).

Remove the fuser motor

- ▲ Remove three screws (callout 1), disconnect one connector (callout 2), and then remove the motor (callout 3).

Figure 1-371 Remove the fuser motor



ITB motor

Before proceeding, remove the following assemblies

M651 models

- Formatter. See [Formatter PCA on page 9](#).
- Upper left cover. See [Upper left cover \(M651\) on page 117](#).
- Left rear cover. See [Left rear cover on page 119](#).
- Rear cover. See [Rear cover \(M651\) on page 121](#).
- Face-down tray. See [Face-down tray \(M651\) on page 134](#).
- Face-down rear cover. See [Face-down rear cover \(M651\) on page 136](#).
- Interconnect board. See [Interconnect board \(ICB\) \(M651\) on page 194](#).
- Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 200](#).
- DC controller and tray. See [DC controller PCA and tray on page 204](#).
- High-voltage power supply upper (HVPS-T). See [High-voltage power supply upper \(HVPS-T\) on page 243](#).

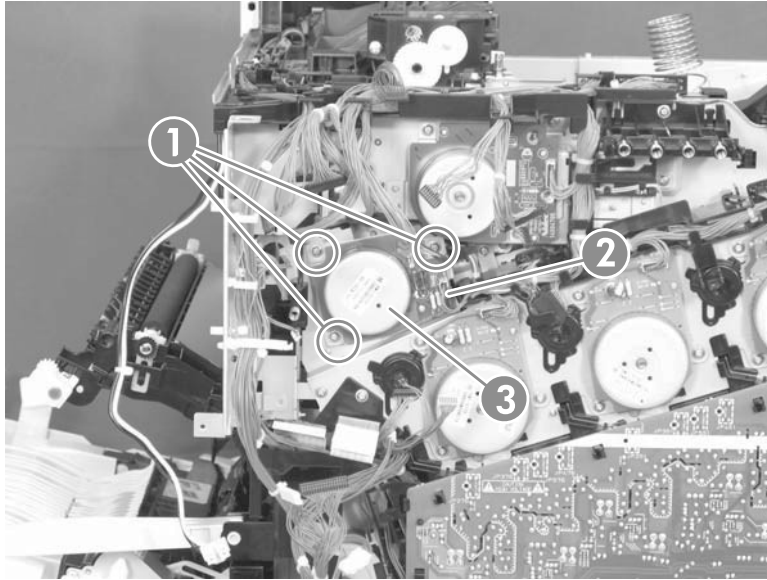
M680 models

- Formatter. See [Formatter PCA on page 9](#).
- Standard output bin. See [Standard output bin \(M680\) on page 52](#).
- Output bin bezel. See [Output bin bezel \(M680\) on page 53](#).
- Scanner rear cover. See [Scanner rear cover on page 79](#).
- Document feeder. See [Document feeder \(ADF\) on page 80](#).
- Scanner assembly. See [Image scanner assembly on page 103](#).
- Fan cover. See [Fan cover \(M680\) on page 118](#).
- Left rear cover. See [Left rear cover on page 119](#).
- Rear cover. See [Rear cover \(M680\) on page 122](#).
- Interconnect board (ICB). See [Interconnect board \(ICB\) \(M680\) on page 196](#).
- Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 200](#).
- DC controller and tray. See [DC controller PCA and tray on page 204](#).
- High-voltage power supply upper (HVPS-T). See [High-voltage power supply upper \(HVPS-T\) on page 243](#).

Remove the ITB motor

- ▲ Remove three screws (callout 1), disconnect one connector (callout 2), and then remove the motor (callout 3).

Figure 1-372 Remove the ITB motor



Main-drive assembly

Before proceeding, remove the following assemblies



NOTE: Removing the main-drive assembly typically requires more than 2 hours to complete.

M651 models

- Formatter. See [Formatter PCA on page 9](#).
- Intermediate transfer belt (ITB). See [Intermediate transfer belt \(ITB\) on page 25](#).
- Upper left cover. See [Upper left cover \(M651\) on page 117](#).
- Left rear cover. See [Left rear cover on page 119](#).
- Rear cover. See [Rear cover \(M651\) on page 121](#).
- Face-down tray. See [Face-down tray \(M651\) on page 134](#).
- Face-down rear cover. See [Face-down rear cover \(M651\) on page 136](#).
- Interconnect board. See [Interconnect board \(ICB\) \(M651\) on page 194](#).
- Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 200](#).
- DC controller and tray. See [DC controller PCA and tray on page 204](#).
- High-voltage power supply lower (HVPS-D). See [High-voltage power supply lower \(HVPS-D\) on page 207](#).
- Exhaust fan and fan duct. See [Exhaust fan and fan duct on page 213](#).
- High-voltage power supply upper (HVPS-T). See [High-voltage power supply upper \(HVPS-T\) on page 243](#).
- Yellow, magenta, cyan, and black drum motors. See [Yellow, magenta, cyan, and black drum motors on page 246](#).

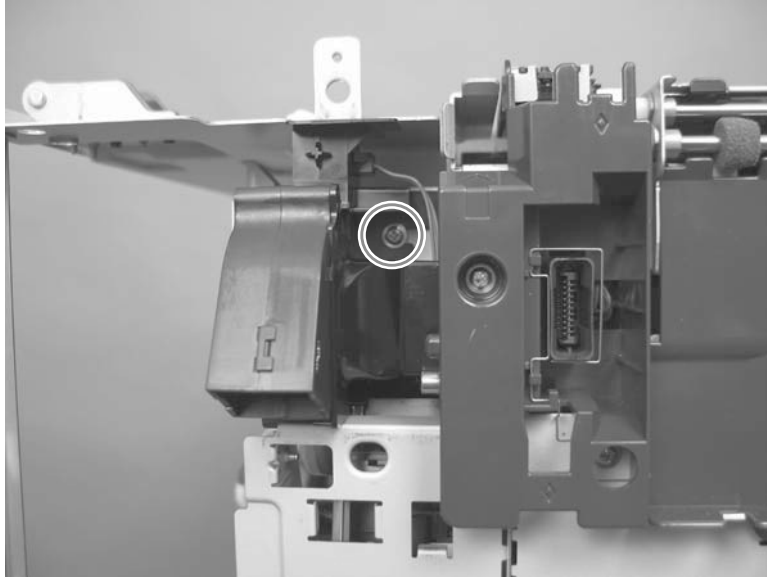
M680 models

- Formatter. See [Formatter PCA on page 9](#).
- Intermediate transfer belt (ITB). See [Intermediate transfer belt \(ITB\) on page 25](#).
- Standard output bin. See [Standard output bin \(M680\) on page 52](#).
- Output bin bezel. See [Output bin bezel \(M680\) on page 53](#).
- Scanner rear cover. See [Scanner rear cover on page 79](#).
- Document feeder. See [Document feeder \(ADF\) on page 80](#).
- Scanner assembly. See [Image scanner assembly on page 103](#).
- Fan cover. See [Fan cover \(M680\) on page 118](#).
- Left rear cover. See [Left rear cover on page 119](#).
- Rear cover. See [Rear cover \(M680\) on page 122](#).
- Interconnect board (ICB). See [Interconnect board \(ICB\) \(M680\) on page 196](#).
- Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 200](#).
- DC controller and tray. See [DC controller PCA and tray on page 204](#).
- High-voltage power supply lower (HVPS-D). See [High-voltage power supply lower \(HVPS-D\) on page 207](#).
- Exhaust fan and fan duct. See [Exhaust fan and fan duct on page 213](#).
- High-voltage power supply upper (HVPS-T). See [High-voltage power supply upper \(HVPS-T\) on page 243](#).
- Yellow, magenta, cyan, and black drum motors. See [Yellow, magenta, cyan, and black drum motors on page 246](#).

Remove the main-drive assembly

1. Remove one screw and then release the fan from the chassis.

Figure 1-373 Remove the main-drive assembly (1 of 7)



2. Remove eight connectors (callout 1), and then release the wire harnesses from the guides (callout 2).


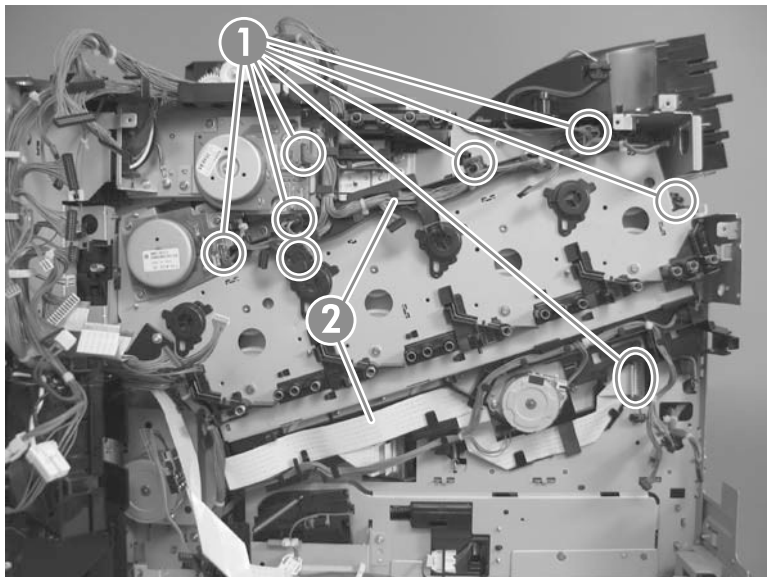
 **NOTE:** Leave the wire harnesses with the product.

Figure 1-374 Remove the main-drive assembly (2 of 7)



3. Remove two screws (callout 1), disconnect one connector (callout 2), and then remove the developing-disengagement motor.


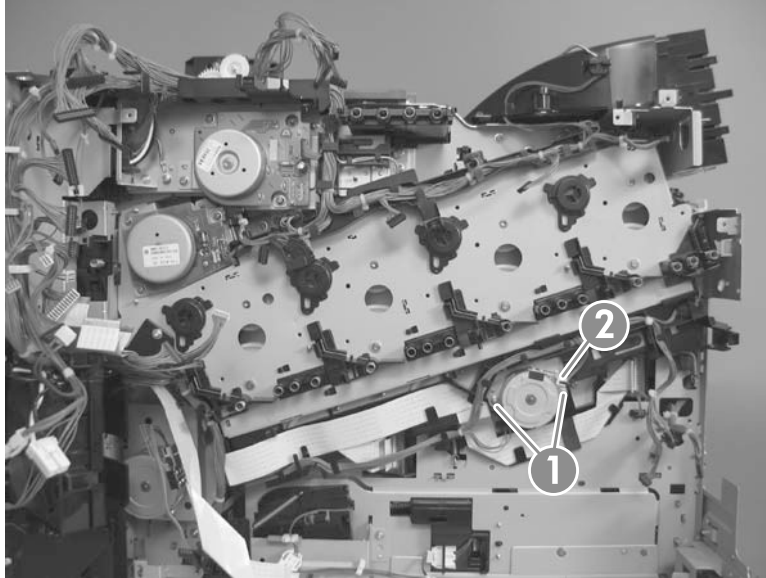
 **NOTE:** When the motor is reinstalled, make sure the motor PCA is positioned at the top of the assembly.

Figure 1-375 Remove the main-drive assembly (3 of 7)



4. Remove one screw (callout 1), and then remove the wire guide from the main-drive assembly (callout 2).


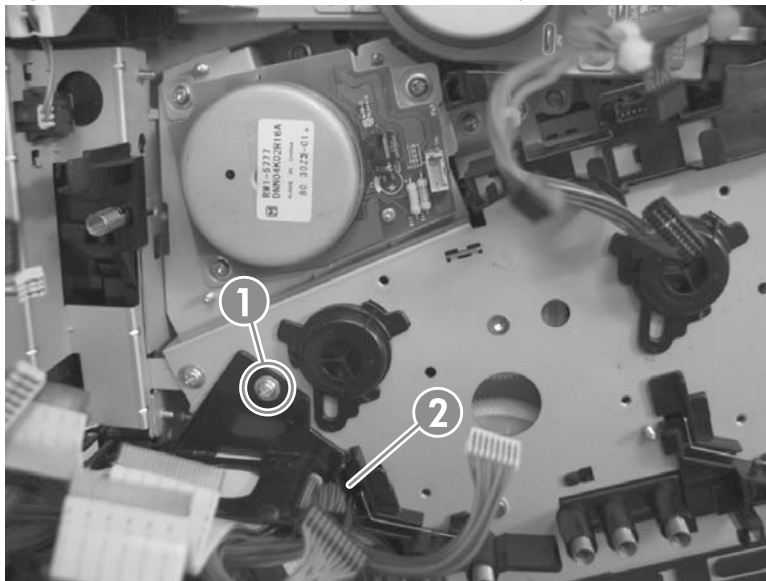
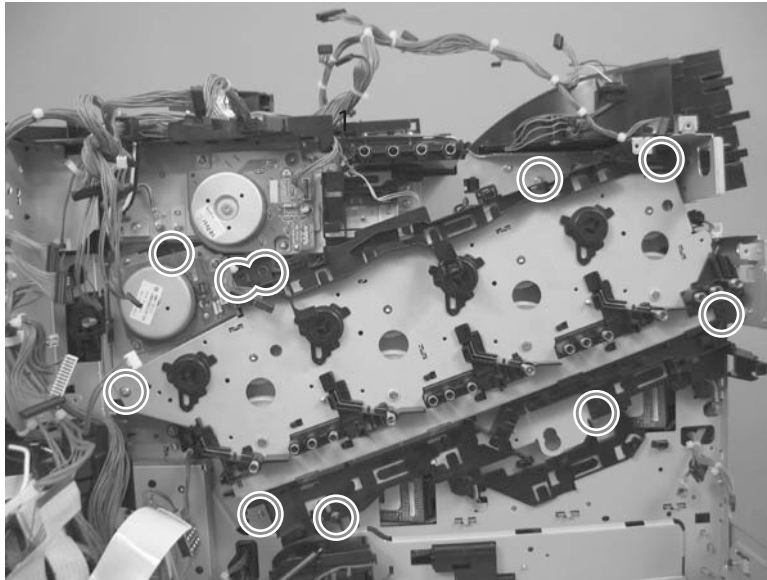
 **Reinstallation tip** Leave the wire harnesses connected to the wire guide and attached to the product for easier reinstallation.

Figure 1-376 Remove the main-drive assembly (4 of 7)



5. Remove 10 screws.

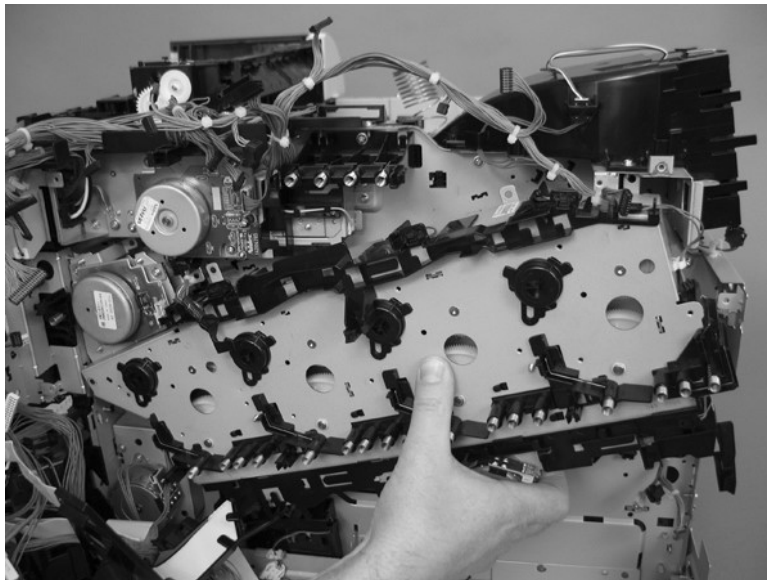
Figure 1-377 Remove the main-drive assembly (5 of 7)



6. Separate the main-drive assembly from the product.

⚠ CAUTION: The assembly is still attached to the product by one wire harness. Do not attempt to completely remove the assembly until proceeding to the following step.

Figure 1-378 Remove the main-drive assembly (6 of 7)



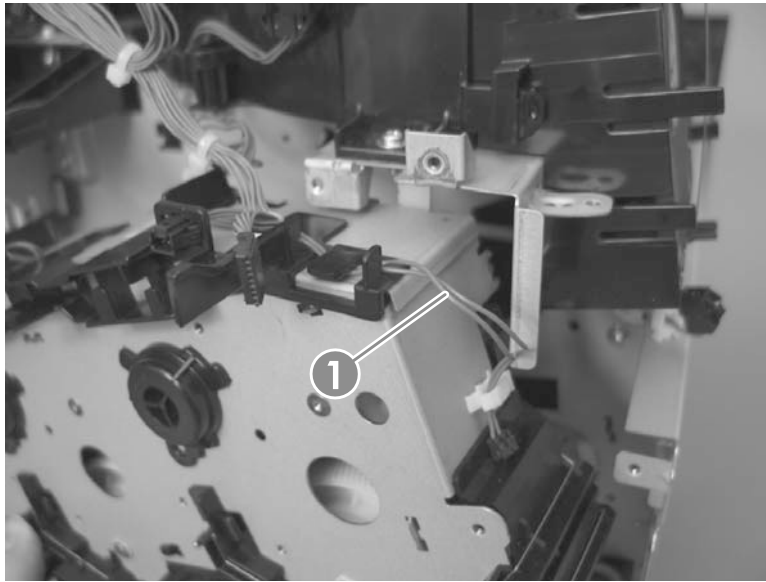
7. Release the wire harness (callout 1) from the guides, and then remove the main-drive assembly from the product.

⚠ CAUTION: Be careful when removing the assembly. The cams on the backside of the assembly can be dislodged. If the cams become dislodged, install them on the shafts as shown in [Figure 1-380 Reinstall the main-drive assembly \(1 of 7\)](#) on page 257.

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

💡 Reinstallation tip It might be easier to pass the harness (callout 1) over the edge of the assembly chassis after the main-drive assembly is reinstalled.

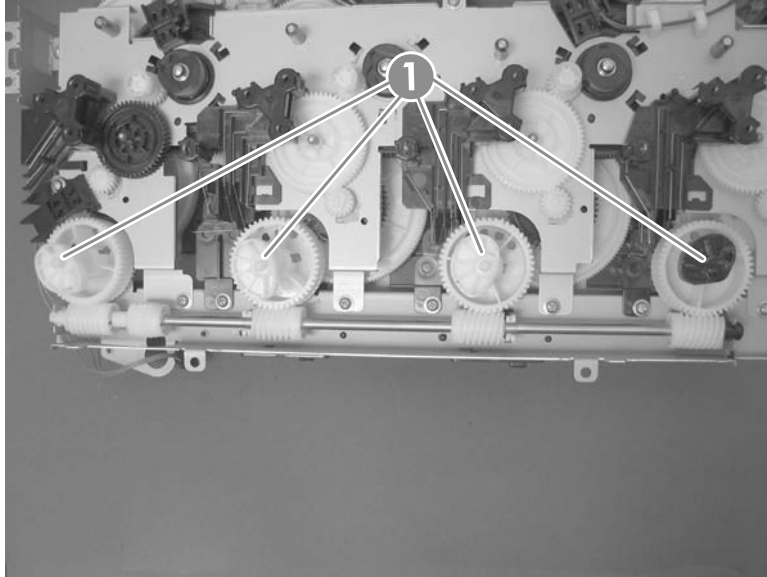
Figure 1-379 Remove the main-drive assembly (7 of 7)



Reinstall the main-drive assembly

1. Locate the cams (callout 1) on the back side of the assembly.

Figure 1-380 Reinstall the main-drive assembly (1 of 7)



2. Slowly rotate the shaft near the black cam.


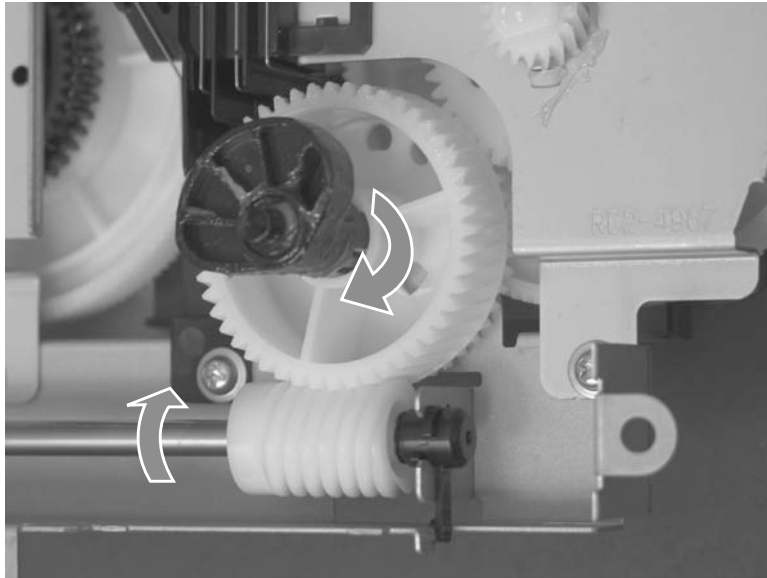
 **IMPORTANT:** Do not touch the plastic gears or cams. Do not wipe away any of the grease that is applied to these assemblies. Always rotate the gears and cams by rotating the metal drive shaft.

Figure 1-381 Reinstall the main-drive assembly (2 of 7)



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

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


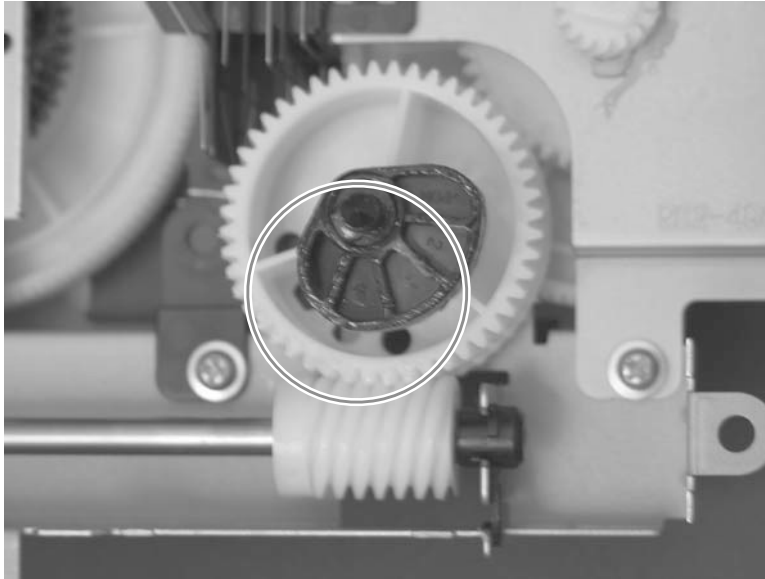

 **NOTE:** The holes in the other cam gears have a different alignment. Make sure that the holes in the black-cam gear are correctly aligned.

Figure 1-382 Reinstall the main-drive assembly (3 of 7)



4. Verify that the cams (callout 1) align correctly.

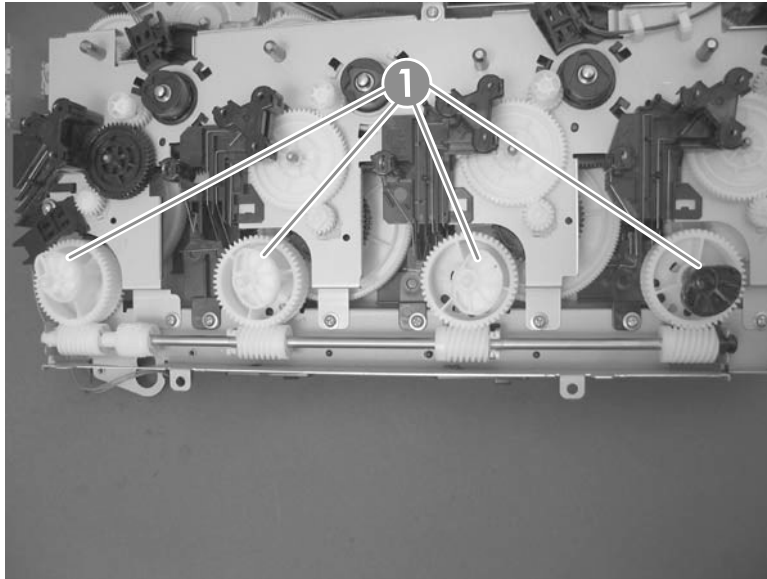
 **TIP:** The second cam in from the right (the white cam to the left of the black cam), should have the *second* hole aligned with the hole in the sheet-metal chassis.

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

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

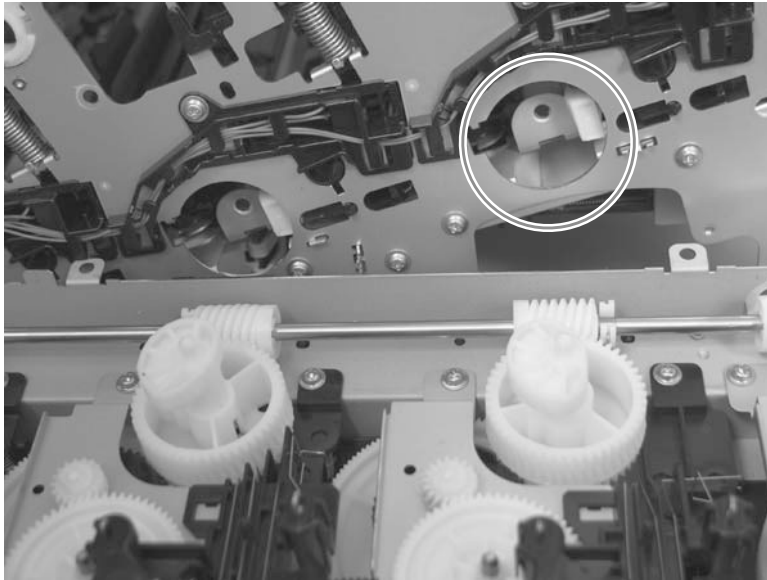
If the second, third, or fourth cams do not correctly align, do the following. Hold the long drive shaft, gently tilt the cam and gear away from the shaft to allow clearance to rotate the gear until the correct hole in the gear aligns with the hole in the chassis.

Figure 1-383 Reinstall the main-drive assembly (4 of 7)



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

Figure 1-384 Reinstall the main-drive assembly (5 of 7)



6. When placing the assembly on the chassis, align the holes in the assembly with the holes in the chassis.


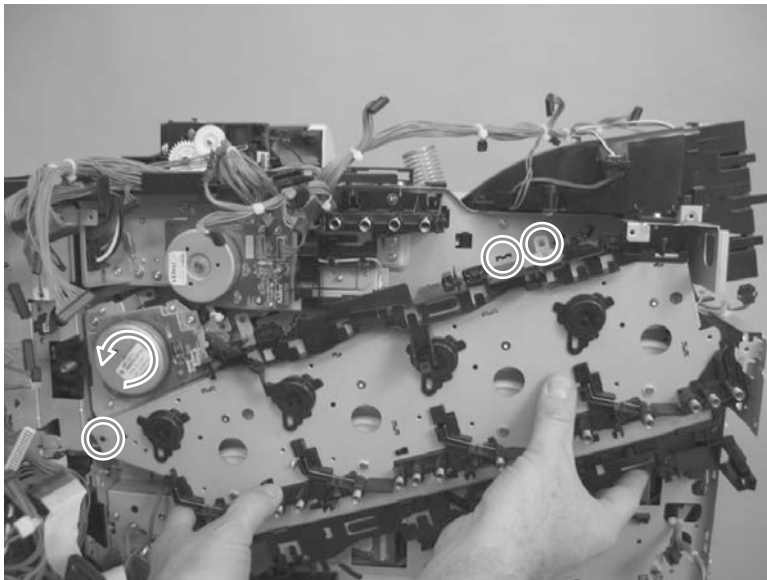
 **Reinstallation tip** If the upper-left corner of the assembly is difficult to seat, try rotating the ITB motor to align the gear shaft with the hole in the chassis.

Figure 1-385 Reinstall the main-drive assembly (6 of 7)



7. When the assembly is correctly installed, the tabs are flat against the chassis.



TIP: After reassembling the product, use the **Troubleshooting** menu to print a **Color Band Test** page.

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

Figure 1-386 Reinstall the main-drive assembly (7 of 7)



Fuser drive assembly

Before proceeding, remove the following assemblies



NOTE: Removing the fuser-drive assembly typically requires more than 2 hours to complete.

M651 models

- Formatter. See [Formatter PCA on page 9](#).
- Upper left cover. See [Upper left cover \(M651\) on page 117](#).
- Left rear cover. See [Left rear cover on page 119](#).
- Rear cover. See [Rear cover \(M651\) on page 121](#).
- Face-down tray. See [Face-down tray \(M651\) on page 134](#).
- Face-down rear cover. See [Face-down rear cover \(M651\) on page 136](#).
- Interconnect board. See [Interconnect board \(ICB\) \(M651\) on page 194](#).
- Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 200](#).
- DC controller and tray. See [DC controller PCA and tray on page 204](#).
- High-voltage power supply upper (HVPS-T). See [High-voltage power supply upper \(HVPS-T\) on page 243](#).
- Yellow, magenta, cyan, and black drum motors. See [Yellow, magenta, cyan, and black drum motors on page 246](#).
- Main-drive assembly. See [Main-drive assembly on page 252](#).

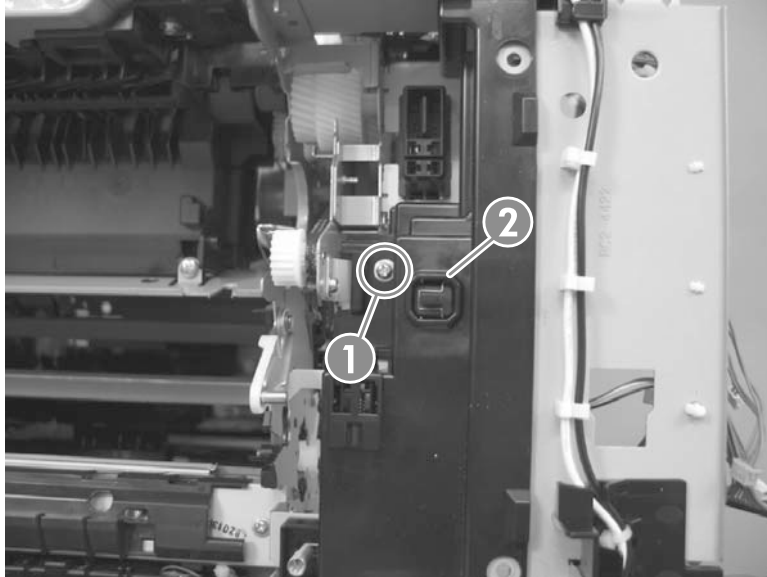
M680 models

- Formatter. See [Formatter PCA on page 9](#).
- Standard output bin. See [Standard output bin \(M680\) on page 52](#).
- Output bin bezel. See [Output bin bezel \(M680\) on page 53](#).
- Scanner rear cover. See [Scanner rear cover on page 79](#).
- Document feeder. See [Document feeder \(ADF\) on page 80](#).
- Scanner assembly. See [Image scanner assembly on page 103](#).
- Fan cover. See [Fan cover \(M680\) on page 118](#).
- Left rear cover. See [Left rear cover on page 119](#).
- Rear cover. See [Rear cover \(M680\) on page 122](#).
- Interconnect board (ICB). See [Interconnect board \(ICB\) \(M680\) on page 196](#).
- Low-voltage power supply. See [Low-voltage power supply \(LVPS\) on page 200](#).
- DC controller and tray. See [DC controller PCA and tray on page 204](#).
- High-voltage power supply upper (HVPS-T). See [High-voltage power supply upper \(HVPS-T\) on page 243](#).
- Yellow, magenta, cyan, and black drum motors. See [Yellow, magenta, cyan, and black drum motors on page 246](#).
- Main-drive assembly. See [Main-drive assembly on page 252](#).

Remove the fuser drive assembly

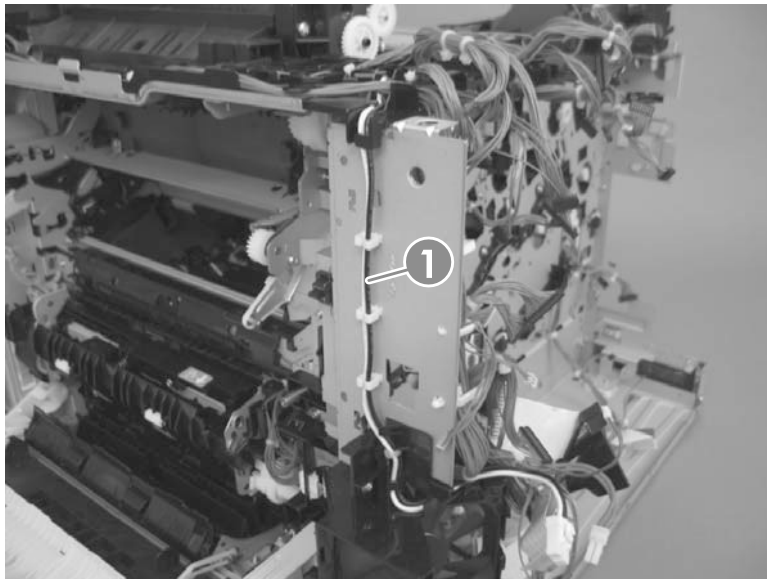
1. Remove one screw (callout 1), and then remove the cover (callout 2).

Figure 1-387 Remove the fuser drive assembly (1 of 7)



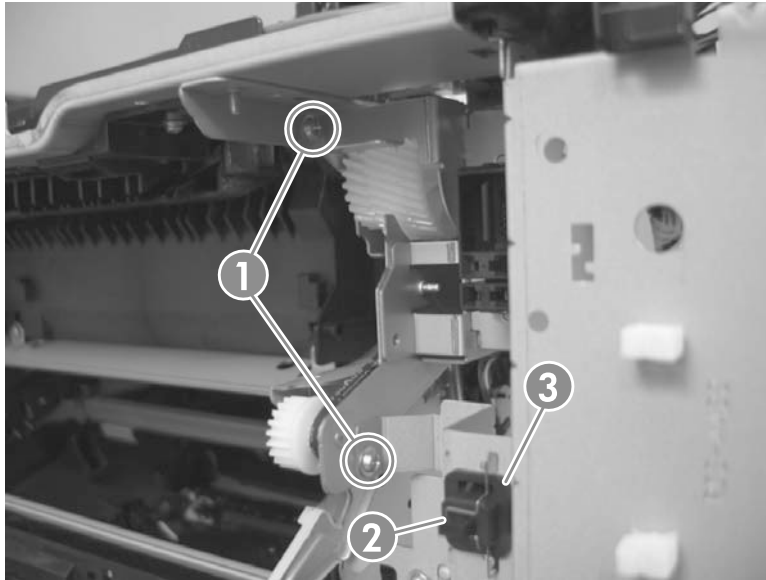
2. Release the wire harness (callout 1) from the guides.

Figure 1-388 Remove the fuser drive assembly (2 of 7)



3. Remove two screws (callout 1), one static wire (callout 2), and one switch (callout 3).

Figure 1-389 Remove the fuser drive assembly (3 of 7)



4. Release one tab, and then slide the wire harness holder (callout 1) to release it from the fuser-drive assembly.


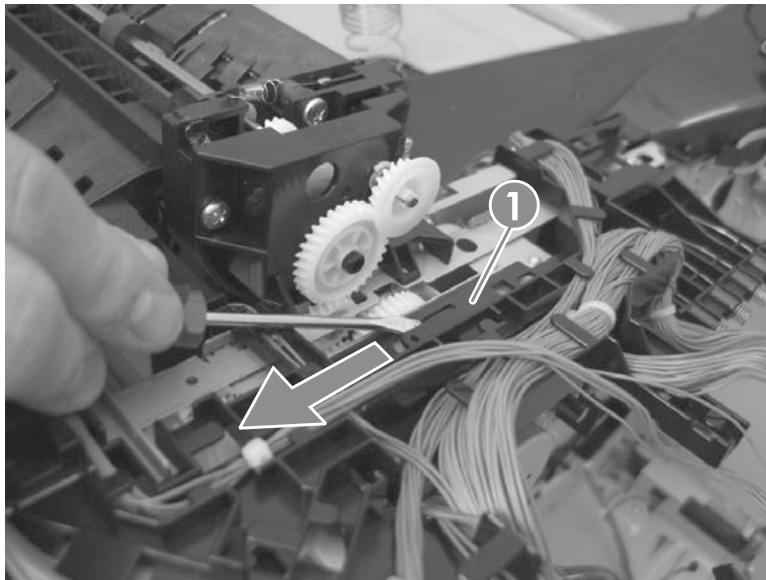
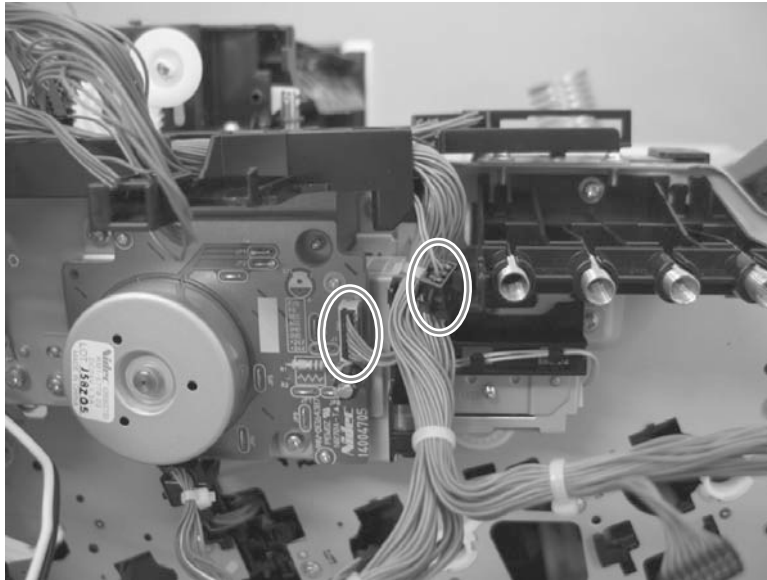
 **NOTE:** Releasing the wire harness provides clearance when the assembly is removed. The harness does not need to be removed.

Figure 1-390 Remove the fuser drive assembly (4 of 7)



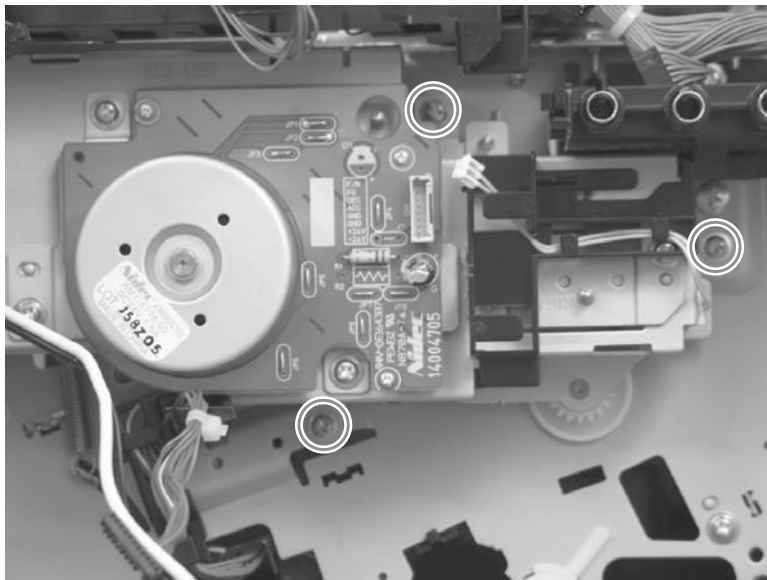
5. Disconnect two connectors.

Figure 1-391 Remove the fuser drive assembly (5 of 7)



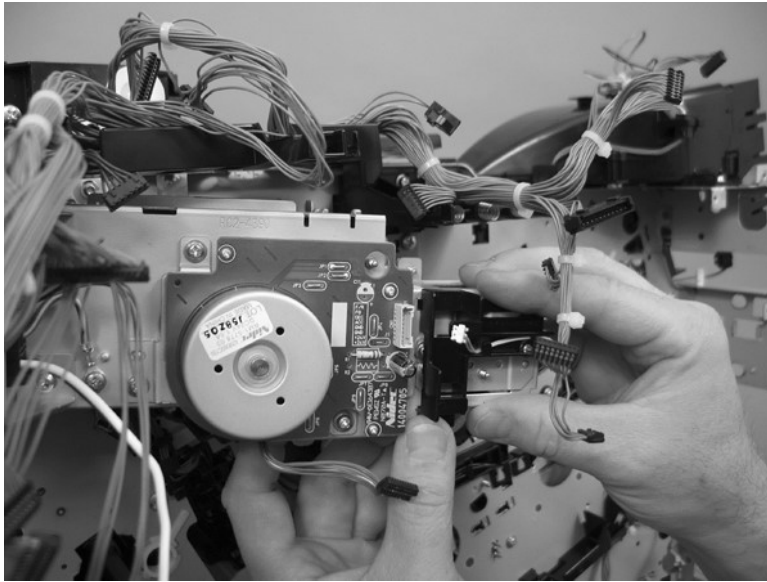
6. Remove three screws.

Figure 1-392 Remove the fuser drive assembly (6 of 7)



7. Carefully remove the assembly.

Figure 1-393 Remove the fuser drive assembly (7 of 7)



Reinstall the fuser drive assembly

- ▲ Rotate the motor until the gears align, and the assembly is flat against the chassis.

Figure 1-394 Reinstall the fuser drive assembly

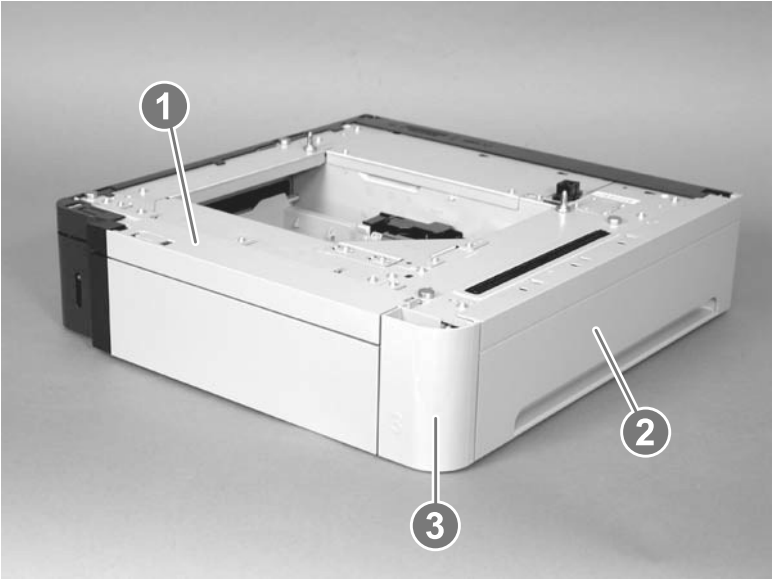


Optional input and output accessories

1x500-sheet paper feeder

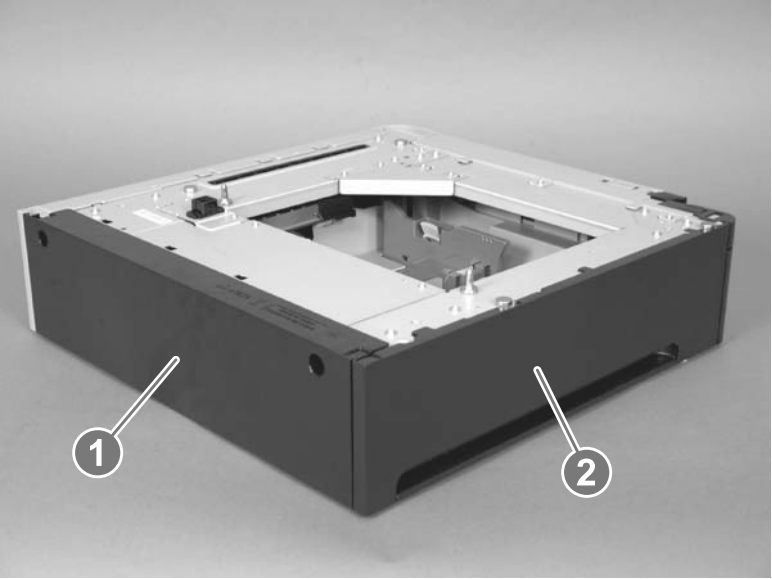
 **NOTE:** HP recommends removing the output accessory from the product before servicing.

Figure 1-395 1x500-sheet paper feeder cover locations, front view



1	Front upper cover
2	Right front cover
3	Right cover

Figure 1-396 1x500-sheet paper feeder cover locations, rear view

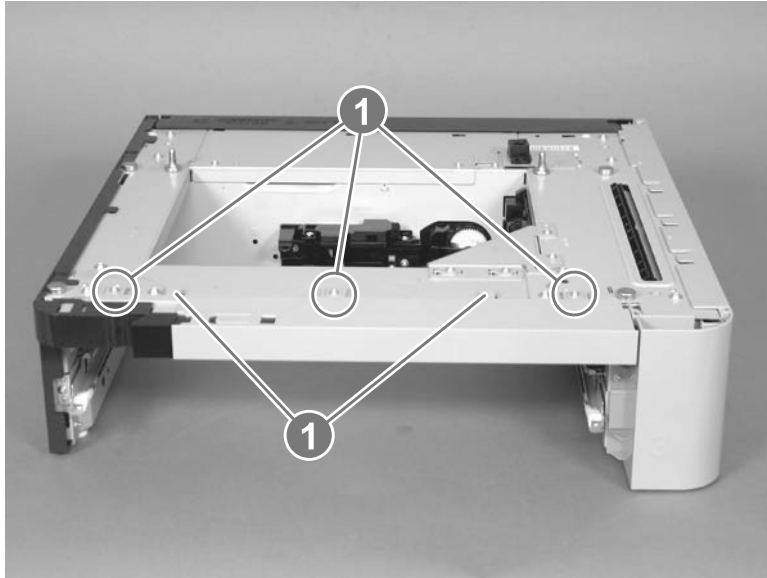


1	Rear cover
2	Left cover

Front upper cover (1x500-sheet paper feeder)

- ▲ Remove three screws (callout 1), release two tabs (callout 2), and then remove the front upper cover.

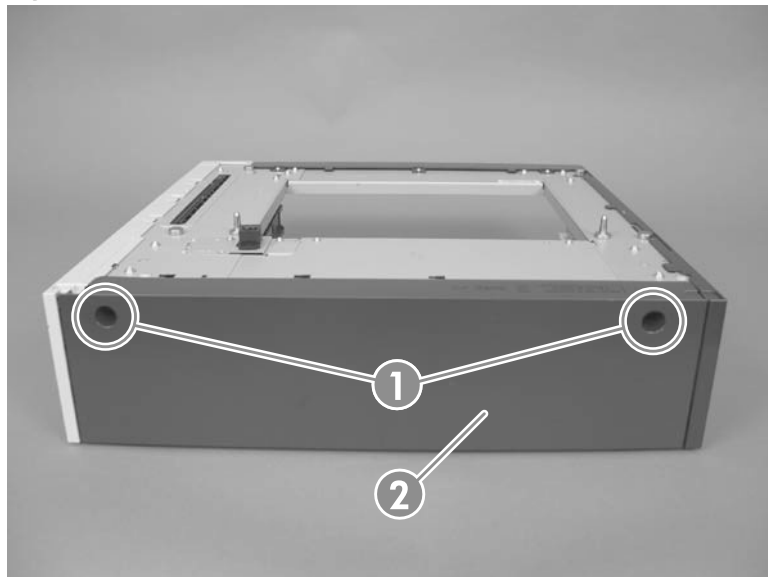
Figure 1-397 Remove the front upper cover (1x500-sheet paper feeder)



Rear cover (1x500-sheet paper feeder)

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

Figure 1-398 Remove the rear cover (500-sheet paper feeder)



Left cover (1x500-sheet paper feeder)

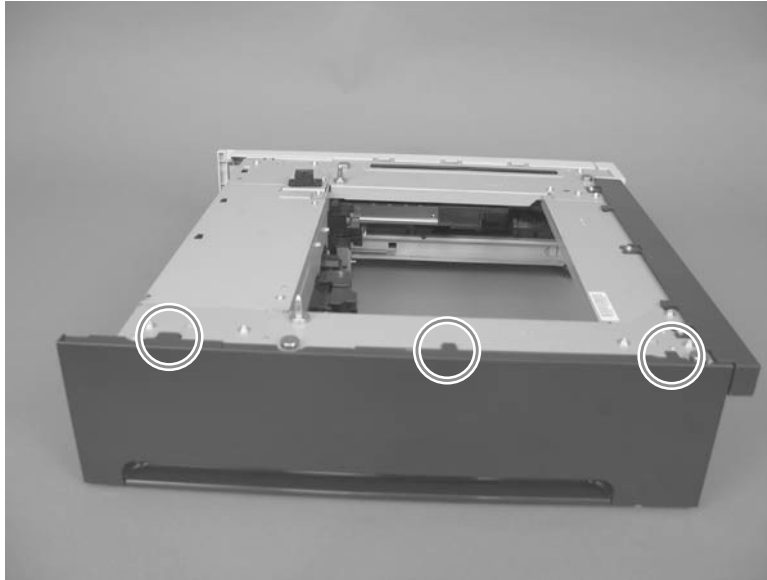
Before proceeding, remove the following assemblies

- Rear cover (500-sheet paper feeder). See [Rear cover \(1x500-sheet paper feeder\) on page 270](#).

Remove the left cover (1x500-sheet paper feeder)

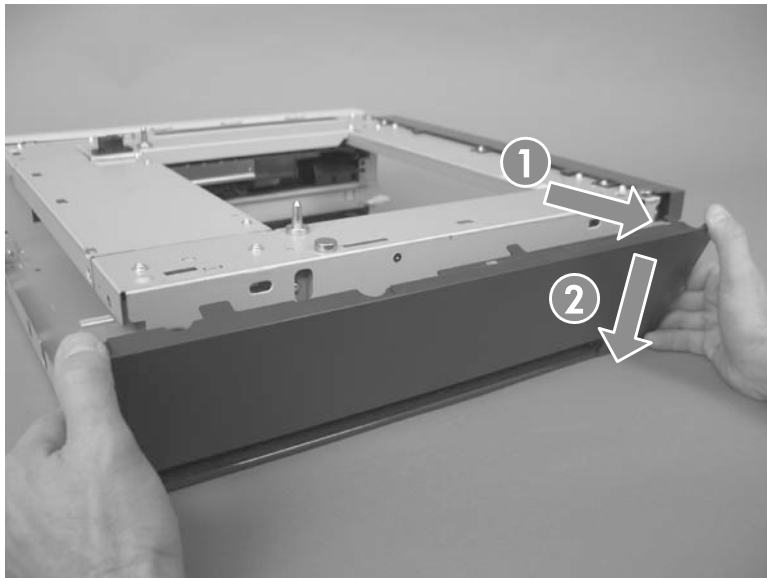
1. Release three tabs.

Figure 1-399 Remove the left cover (1x500-sheet paper feeder; 1 of 2)



2. Pull the top of the cover out (callout 1), and then press down (callout 2) to remove the cover.

Figure 1-400 Remove the left cover (1x500-sheet paper feeder; 2 of 2)



Right-front cover (1x500-sheet paper feeder)

Before proceeding, remove the following assemblies

- Front upper cover. See [Front upper cover \(1x500-sheet paper feeder\)](#) on page 269.

Remove the right-front cover (1x500-sheet paper feeder)

- ▲ Remove one screw, and then rotate the right-front cover to the right to remove it.

Figure 1-401 Remove the right-front cover (1x500-sheet paper feeder)



Right cover (1x500-sheet paper feeder)

Before proceeding, remove the following assemblies

- Right front cover. See [Right-front cover \(1x500-sheet paper feeder\) on page 272.](#)

Remove the right cover (1x500-sheet paper feeder)

1. Reach inside the paper feeder, and then release three tabs (callout 1 and callout 2).


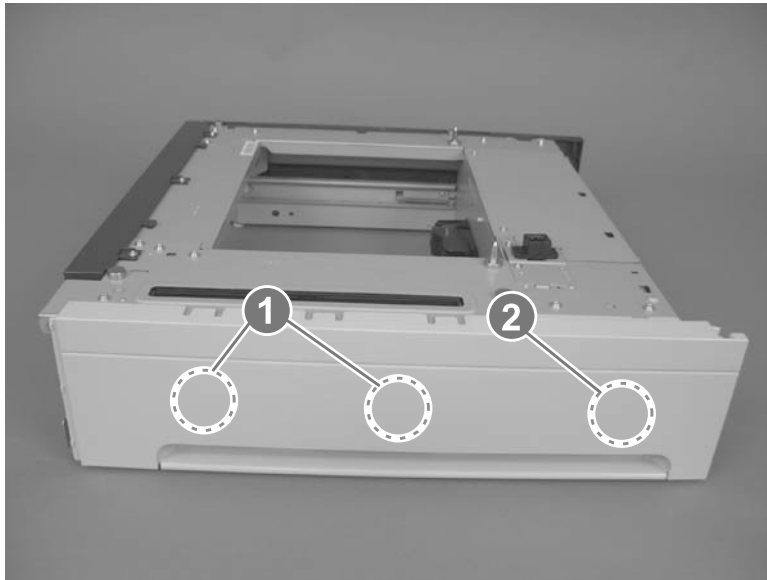
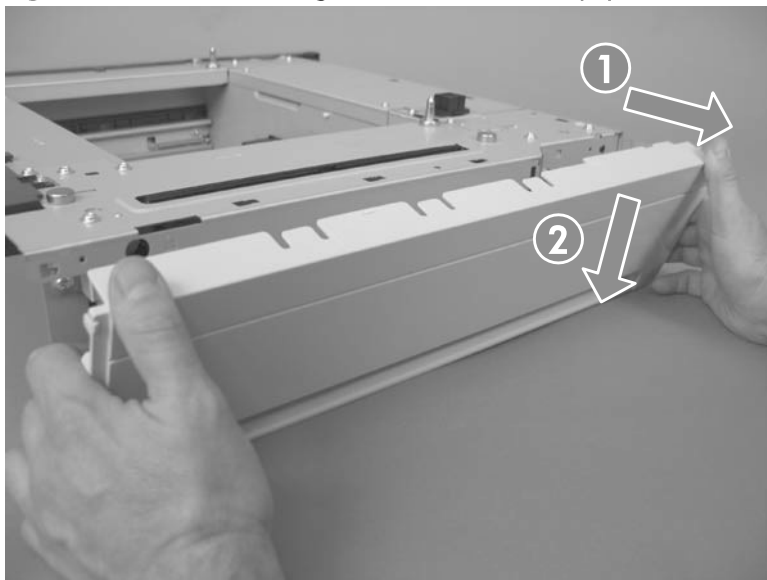
 **TIP:** Use a finger to release the left-most and center tabs (callout 1). However, it might be easier to release the right-most tab (callout 2) by using a long-barreled flat-blade screwdriver.

Figure 1-402 Remove the right cover (1x500-sheet paper feeder; 1 of 2)



2. Rotate the top of the cover away from the assembly (callout 1) to remove it.

Figure 1-403 Remove the right cover (1x500-sheet paper feeder; 2 of 2)



Paper-pickup assembly (1x500-sheet paper feeder)

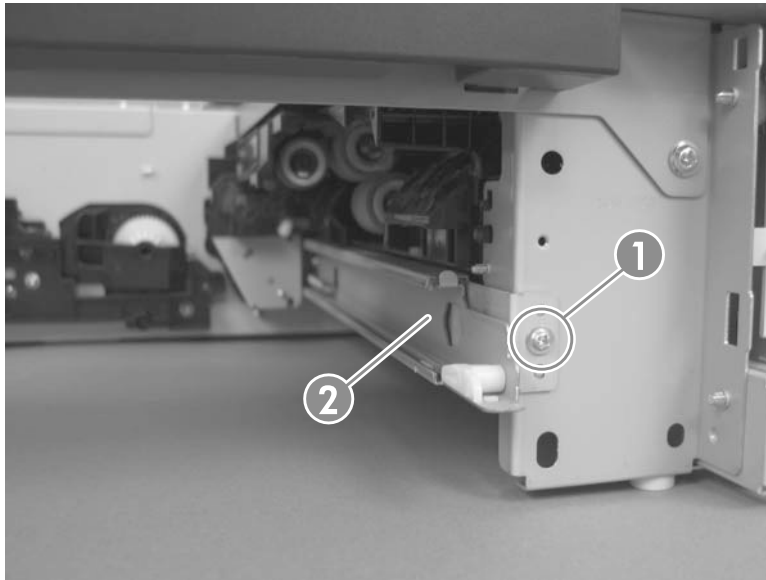
Before proceeding, remove the following assemblies

- Rear cover. See [Rear cover \(1x500-sheet paper feeder\) on page 270.](#)
- Front upper cover. See [Front upper cover \(1x500-sheet paper feeder\) on page 269.](#)
- Right front cover. See [Right-front cover \(1x500-sheet paper feeder\) on page 272.](#)
- Right cover See [Right cover \(1x500-sheet paper feeder\) on page 273.](#)

Remove the pickup assembly (1x500-sheet paper feeder)

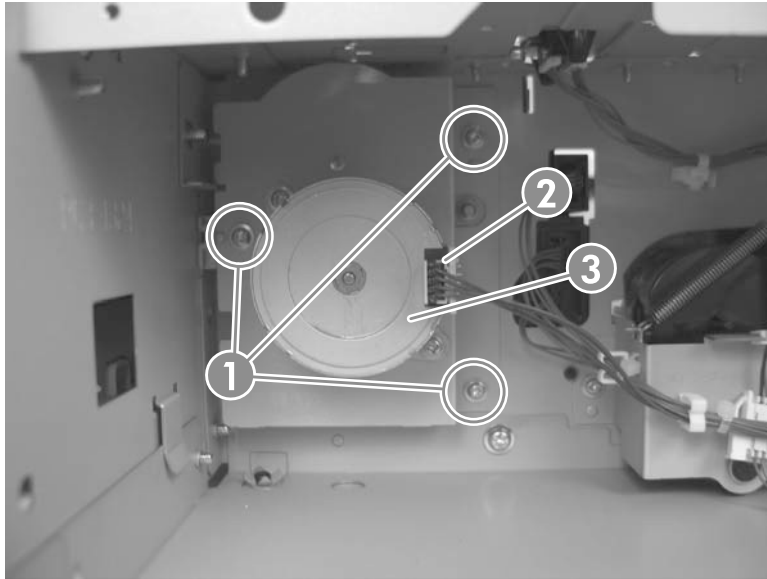
1. Remove one screw (callout 1), and then remove the tray rail (callout 2).

Figure 1-404 Remove the paper-pickup assembly (1x500-sheet paper feeder; 1 of 5)



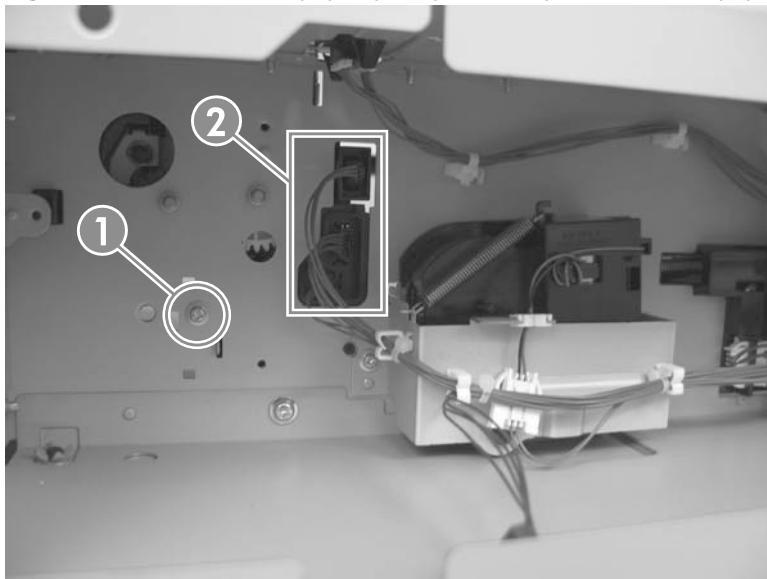
2. Remove three screws (callout 1), disconnect one connector (callout 2), and then remove the motor assembly (callout 3).

Figure 1-405 Remove the paper-pickup assembly (1x500-sheet paper feeder; 2 of 5)



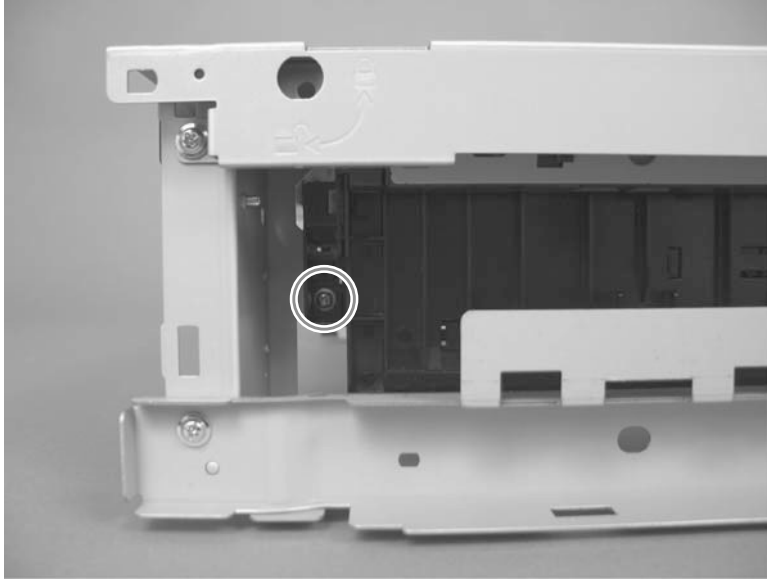
3. Remove one screw (callout 1), and then disconnect three connectors (callout 2).

Figure 1-406 Remove the paper-pickup assembly (1x500-sheet paper feeder; 3 of 5)



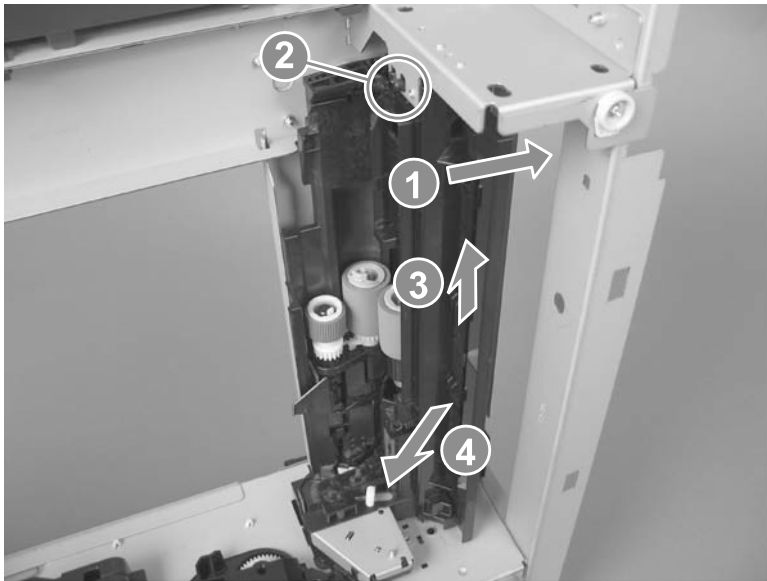
4. On the right side, remove one screw.

Figure 1-407 Remove the paper-pickup assembly (1x500-sheet paper feeder; 4 of 5)



5. Place the paper feeder so the rear side is down. Move the top of the assembly to the right (callout 1) until the post (callout 2) is free from the hole. Lift the assembly (callout 3), and then pull the bottom of the assembly (callout 4) to remove.

Figure 1-408 Remove the paper pickup assembly (1x500-sheet paper feeder; 5 of 5)



Lifter base assembly (1x500-sheet paper feeder)

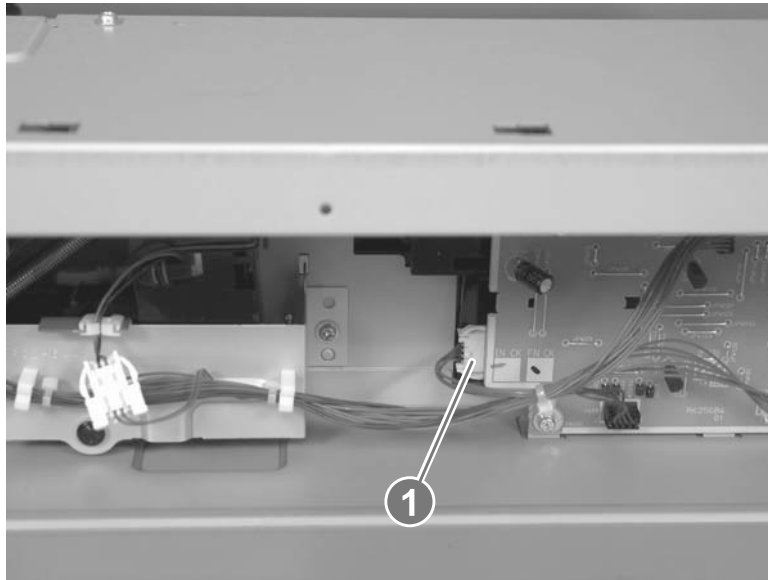
Before proceeding, remove the following assemblies

- Rear cover. See [Rear cover \(1x500-sheet paper feeder\)](#) on page 270.

Remove the lifter base assembly (1x500-sheet paper feeder)

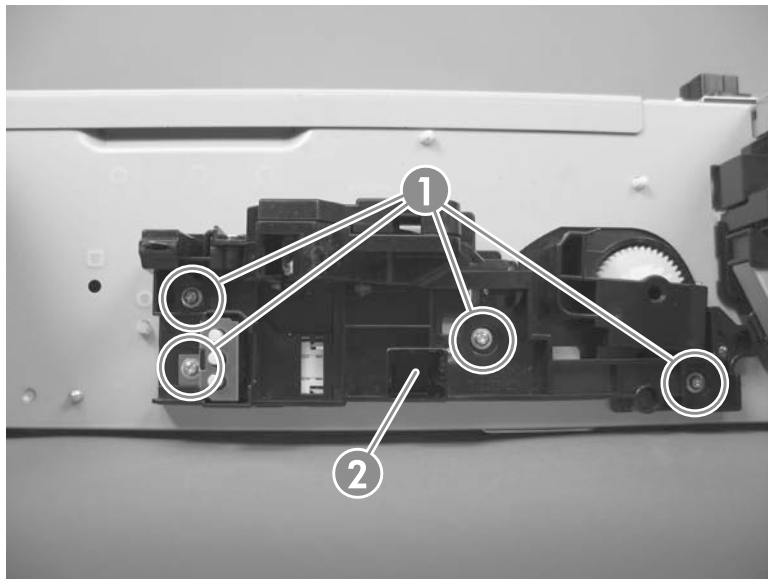
1. From the rear of the paper feeder, disconnect one connector (callout 1).

Figure 1-409 Remove the lifter base assembly (1x500-sheet paper feeder; 1 of 2)



2. From the inside of the paper feeder, remove four screws (callout 1), and then remove the lifter base assembly (callout 2).

Figure 1-410 Remove the lifter base assembly (1x500-sheet paper feeder; 2 of 2)



Reinstall the lifter base assembly

If the spring falls from the lifter base assembly, reinstall it before reinstalling the lifter base assembly.

Reinstall the lifter base assembly

- ▲ Place the spring in the assembly before reinstalling the assembly.

Figure 1-411 Reinstall the lifter base assembly (1x500-sheet paper feeder)



Lifter assembly (1x500-sheet paper feeder)

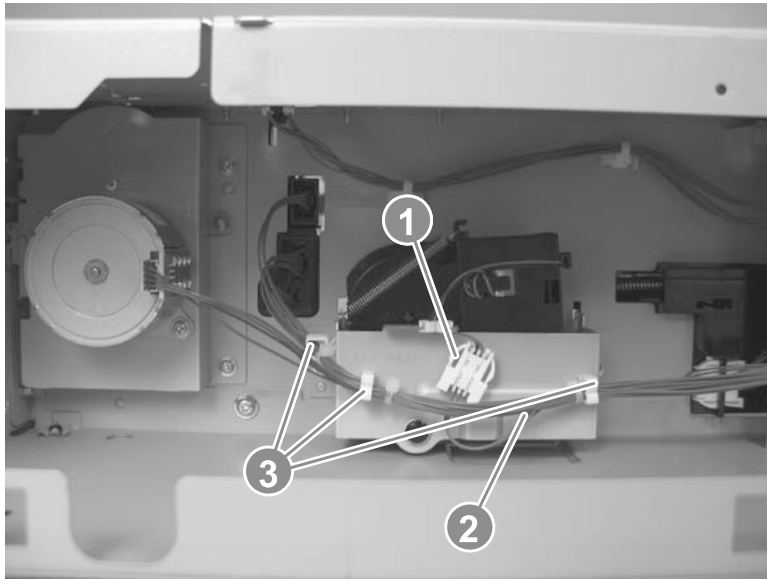
Before proceeding, remove the following assemblies

- Rear cover. See [Rear cover \(1x500-sheet paper feeder\)](#) on page 270.

Remove the lifter assembly (1x500-sheet paper feeder)

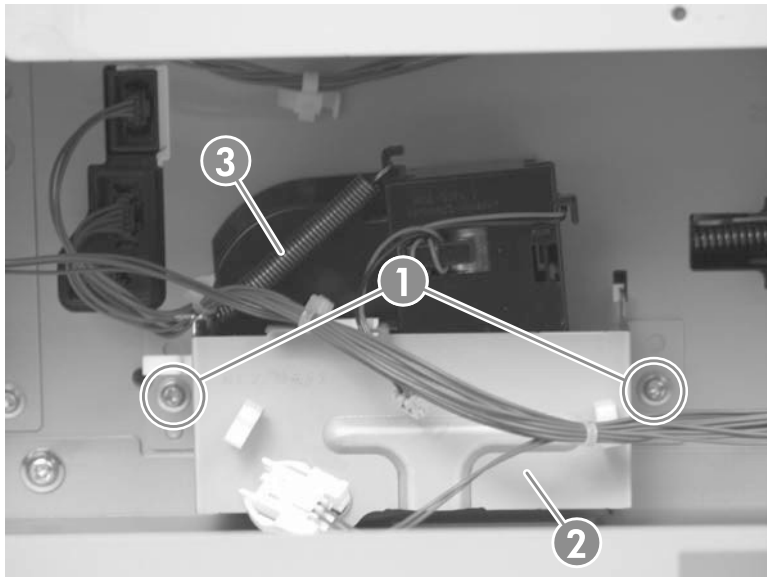
1. Disconnect one connector (callout 1), and then release the wire harnesses (callout 2) from the guides (callout 3).

Figure 1-412 Remove the lifter assembly (1x500-sheet paper feeder; 1 of 2)



2. Remove two screws (callout 1), and then remove the sheet-metal plate (callout 2). Remove one spring (callout 3), and then remove the lifter drive assembly.

Figure 1-413 Remove the lifter assembly (1x500-sheet paper feeder; 2 of 2)



Pickup motor assembly (1x500-sheet paper feeder)

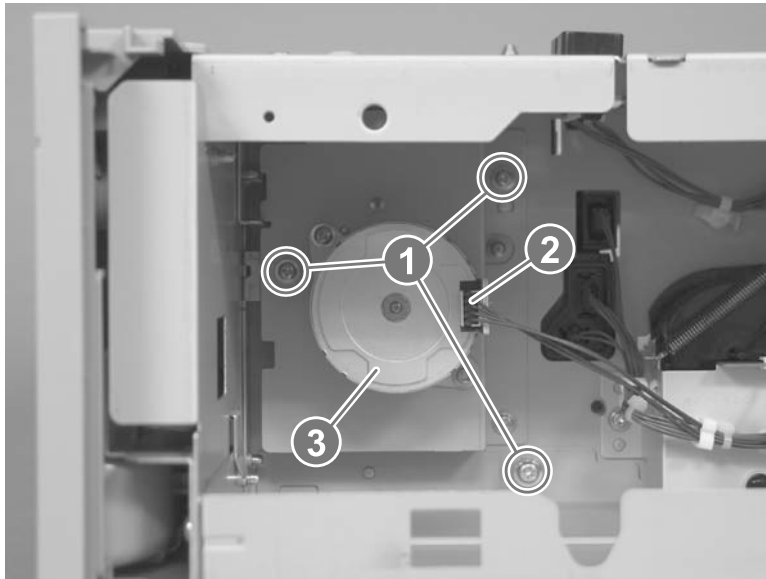
Before proceeding, remove the following assemblies

- Rear cover (1x500-sheet paper feeder). See [Rear cover \(1x500-sheet paper feeder\)](#) on page 270.

Remove the pickup motor assembly (1x500-sheet paper feeder)

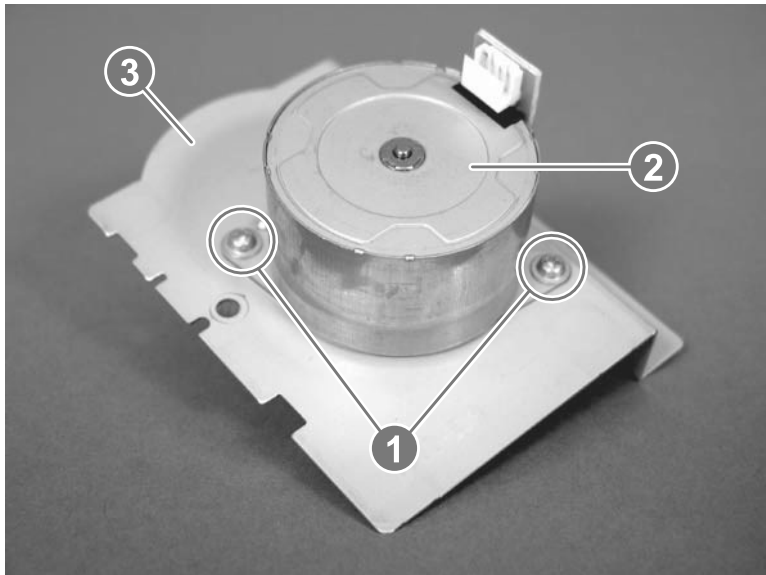
1. Remove three screws (callout 1), disconnect one connector (callout 2), and then remove the pickup motor assembly (callout 3).

Figure 1-414 Remove the pickup motor assembly (1x500-sheet paper feeder; 1 of 2)



2. Remove two screws (callout 1) and then separate the paper-pickup motor (callout 2) from the paper-pickup drive assembly (callout 3).

Figure 1-415 Remove the pickup motor assembly (1x500-sheet paper feeder; 2 of 2)



Feeder PCA (1x500-sheet paper feeder)

Before proceeding, remove the following assemblies

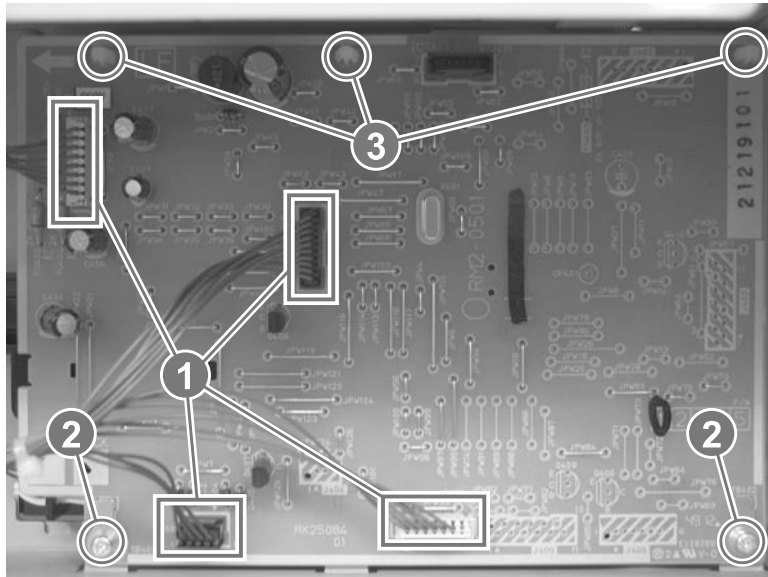
- Rear cover. See [Rear cover \(1x500-sheet paper feeder\)](#) on page 270.

Remove the feeder PCA (1x500-sheet paper feeder)

CAUTION:  ESD-sensitive assembly.

- ▲ Disconnect four connectors (callout 1), remove two screws (callout 2), release three tabs (callout 3), and then remove the PCA.

Figure 1-416 Remove the feeder PCA (1x500-sheet paper feeder)

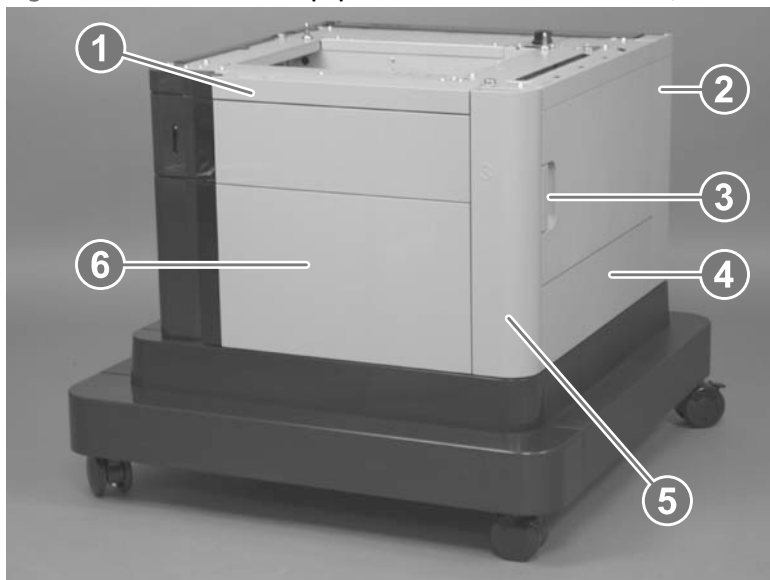


1x500-sheet paper feeder with cabinet



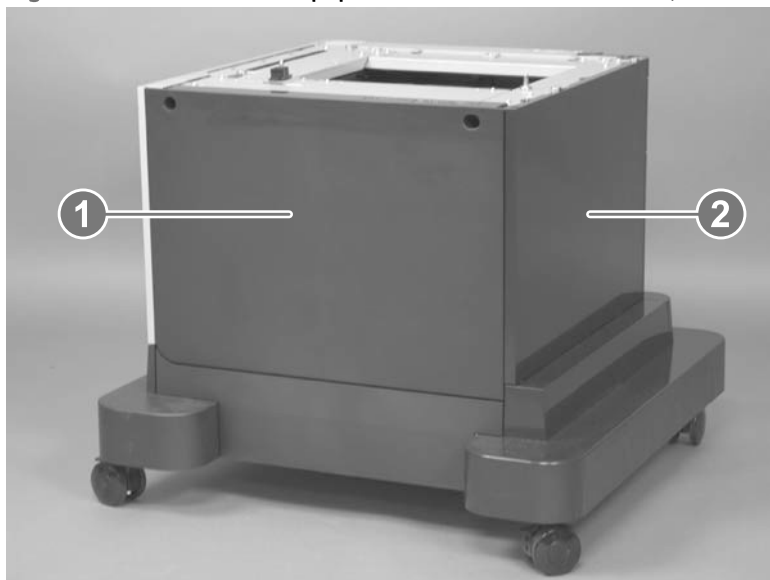
NOTE: HP recommends removing the output accessory from the product before servicing.

Figure 1-417 1x500-sheet paper feeder with cabinet covers, front view



1	Front upper cover
2	Right rear cover
3	Right door assembly
4	Right center cover
5	Right front cover
6	Stock box door (front door)

Figure 1-418 1x500-sheet paper feeder with cabinet covers, rear view



1	Rear cover
---	------------

2	Left cover
---	------------

Rear cover (1x500-sheet paper feeder with cabinet)

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

Figure 1-419 Remove the rear cover (1x500-sheet paper feeder with cabinet)



Left cover (1x500-sheet paper feeder with cabinet)

Before proceeding, remove the following assemblies

- Rear cover. See [Rear cover \(1x500-sheet paper feeder with cabinet\)](#) on page 284.

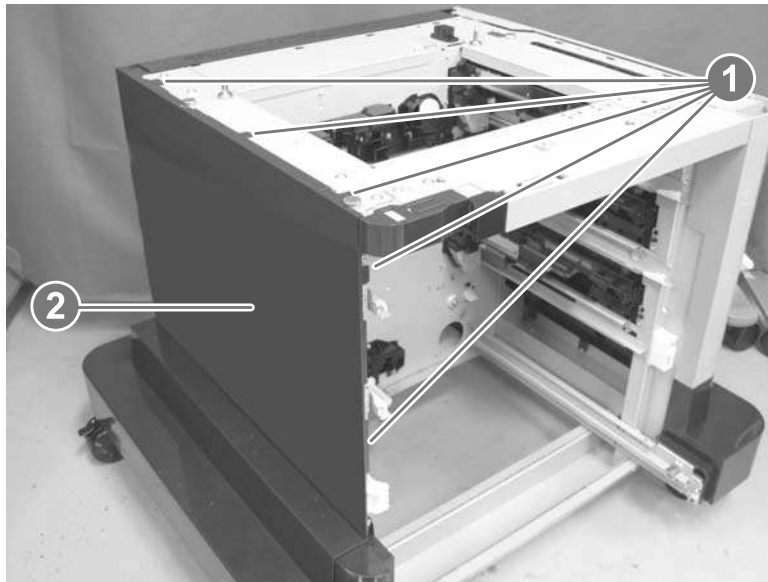
 **NOTE:** The output accessory must be removed from the product before servicing this assembly.

Remove the left cover (1x500-sheet paper feeder with cabinet)

- ▲ Release five tabs (callout 1), and then remove the left cover (callout 2).

 **NOTE:** The figure below shows the 2,500-sheet paper feeder. However, this procedure is valid for the 1x500-sheet accessory.

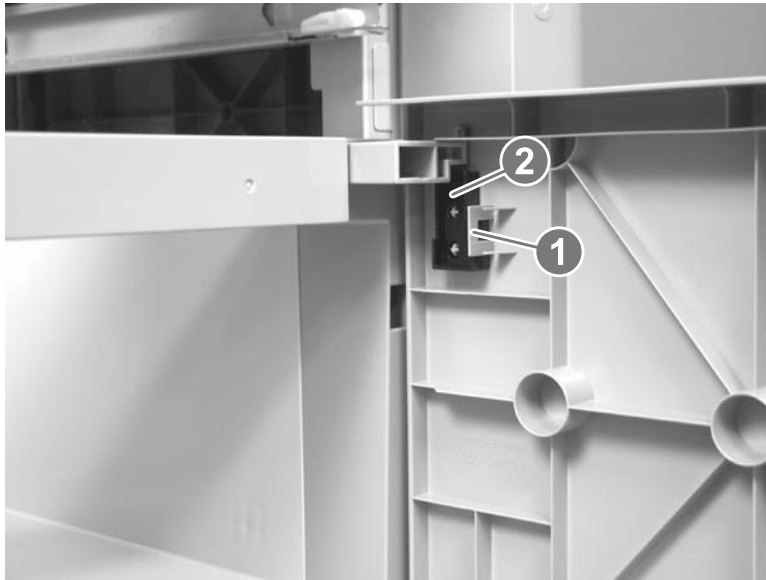
Figure 1-420 Remove the left cover (1x500-sheet paper feeder with cabinet)



Stock box door (1x500-sheet paper feeder with cabinet)

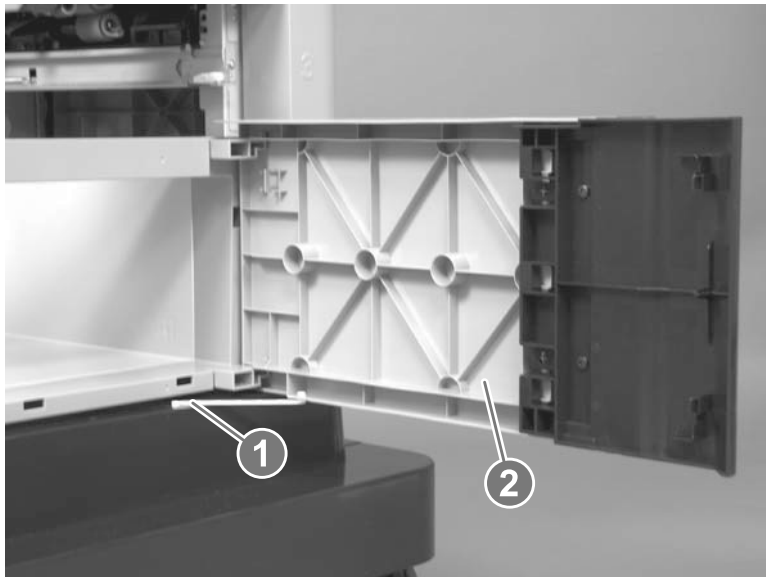
1. Release one tab (callout 1), and then remove the stopper (callout 2).

Figure 1-421 Remove the stock box door (1x500-sheet paper feeder with cabinet; 1 of 2)



2. Release the link arm (callout 1), and then remove the front door (callout 2).

Figure 1-422 Remove the stock box door (1x500-sheet paper feeder with cabinet; 2 of 2)



Front upper cover (1x500-sheet paper feeder with cabinet)

Before proceeding, remove the following assemblies

- Stock box door (front door). See [Stock box door \(1x500-sheet paper feeder with cabinet\)](#) on page 286.

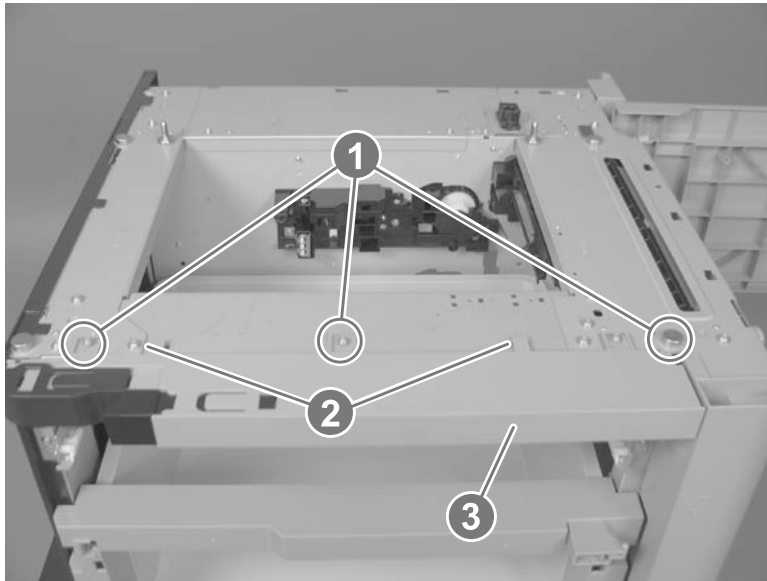


NOTE: The output accessory must be removed from the product before servicing this assembly.

Remove the front upper cover (1x500-sheet paper feeder with cabinet)

- ▲ Remove three screws (callout 1), release two tabs (callout 2), and then remove the front upper cover (callout 3).

Figure 1-423 Remove the front upper cover (1x500-sheet paper feeder with cabinet)



Right-front cover (1x500-sheet paper feeder with cabinet)

Before proceeding, remove the following assemblies

- Stock box door (front door). See [Stock box door \(1x500-sheet paper feeder with cabinet\) on page 286](#).
- Front upper cover. See [Front upper cover \(1x500-sheet paper feeder with cabinet\) on page 287](#).

Remove the right-front cover (1x500-sheet paper feeder with cabinet)

- ▲ Open the right door. Remove one screw (callout 1), and then remove the right-front cover (callout 2).

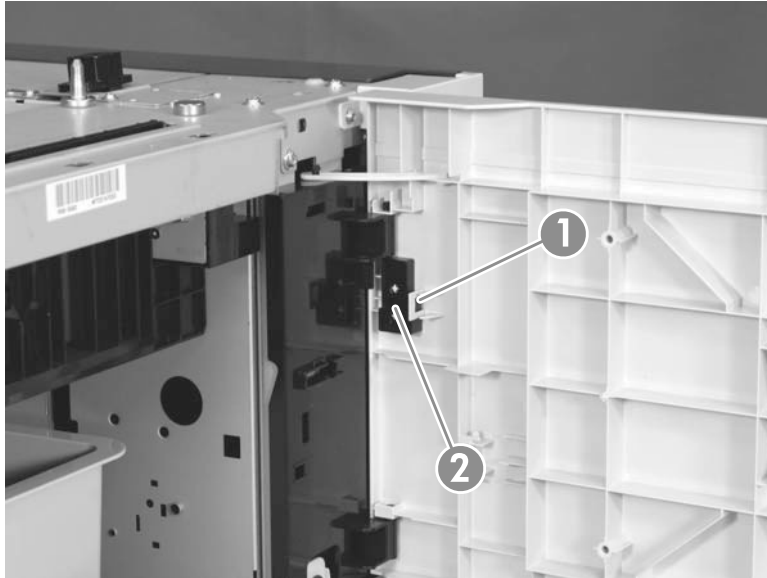
Figure 1-424 Remove the right-front cover (1x500-sheet paper feeder with cabinet)



Right door (1x500-sheet paper feeder with cabinet)

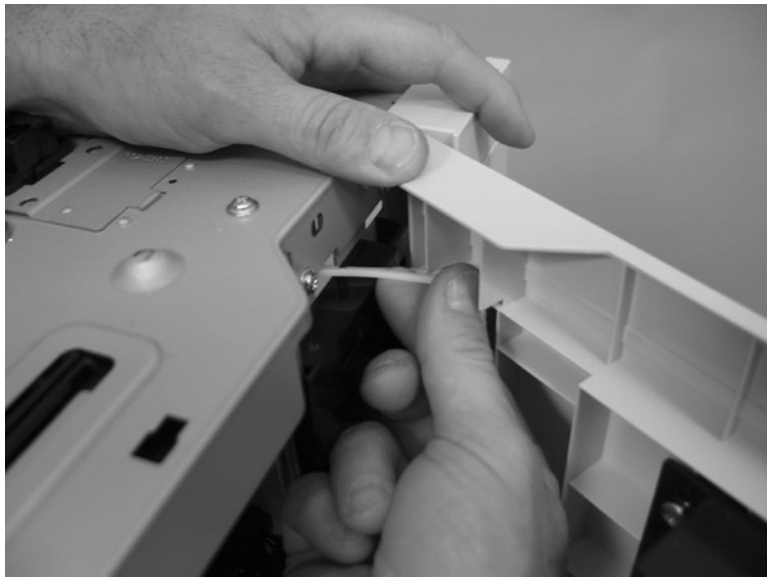
1. Open the right door, release one tab (callout 1), and then remove the stopper (callout 2).

Figure 1-425 Remove the right door (1x500-sheet paper feeder with cabinet; 1 of 3)



2. Close the right door slightly, and then release the upper link arm.

Figure 1-426 Remove the right door (1x500-sheet paper feeder with cabinet; 2 of 3)



3. Slide the door to release the lower link arm, and then remove the right door.

Figure 1-427 Remove the right door (1x500-sheet paper feeder with cabinet; 3 of 3)

