Face-down delivery assembly(M855)

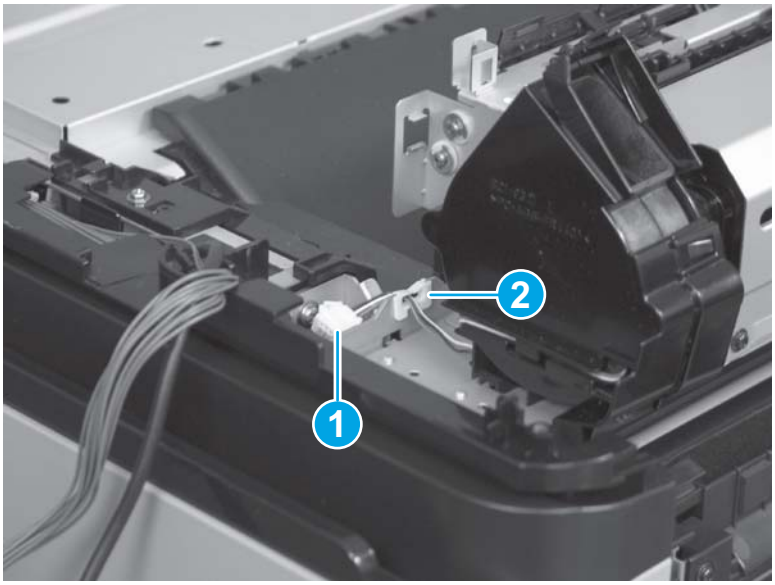
Before proceeding, remove the following assemblies:

- Switch back tray. See Switch back tray on page 22.
- Control panel (M855). See Control panel assembly (M855) on page 47.
- Right upper rear cover (M855). See Right upper rear cover (M855) on page 96.
- Hardware integration pocket (HIP) cover (M855). See Hardware integration pocket (HIP) cover (M855) on page 97.
- Remove one of the following, depending upon product configuration:
  - Face-down bin. See Face-down bin on page 101.
  - Intermediate paper transport unit (IPTU). See IPTU assembly on page 437.
- Switch back cover. See Switch back cover on page 105.
- Right upper front cover (M855). See Right upper front cover (M855) on page 120.
- Front top cover. See Front top cover on page 115.
- Rear top cover. See Rear top cover (M855) on page 116.
- Right upper cover (M855). See Right upper cover (M855) on page 124.
- Duplex reverse assembly (M855). See Duplex reverse assembly (M855) on page 319.

Remove the face-down delivery assembly (M855)

1. At the top of the product, disconnect one connector (callout 1), and then release the wire harness from the retainer (callout 2).

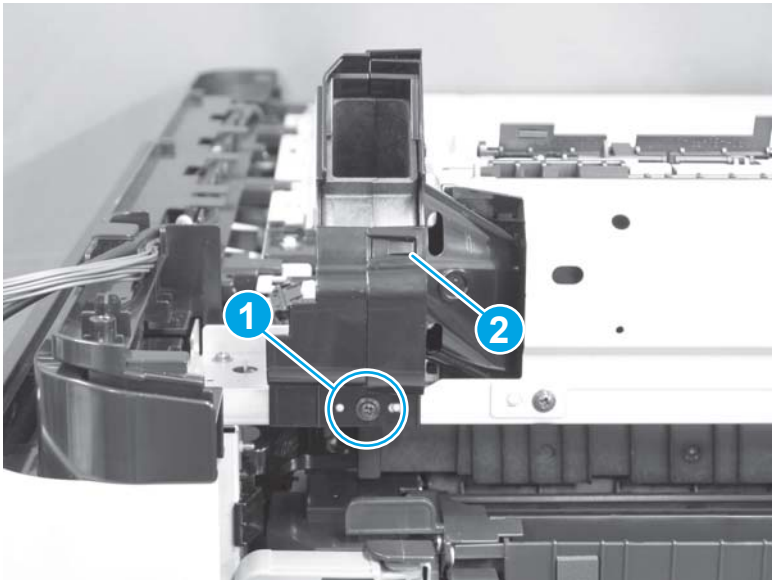
   Figure 1-481 Remove the face-down delivery assembly (M855; 1 of 8)

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

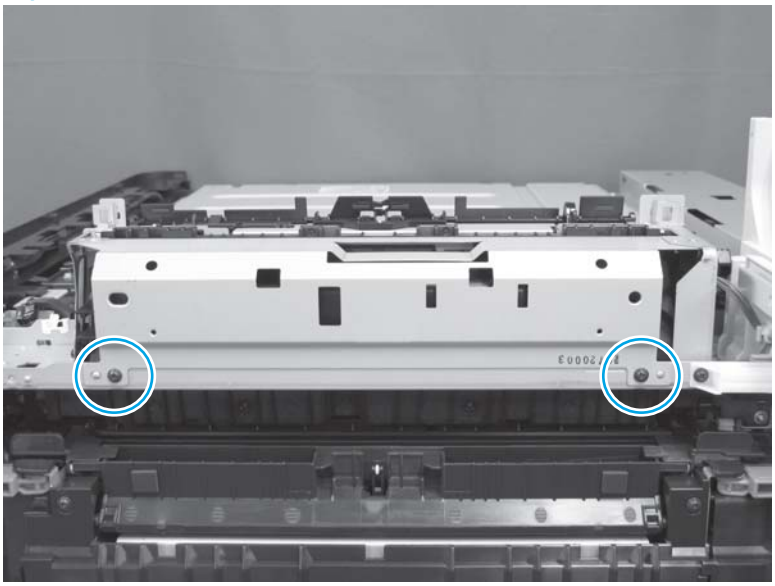
Reinstallation tip When the fan is reinstalled, make sure that the tab on the bottom fits into the slot provided on the chassis.

Figure 1-482 Remove the face-down delivery assembly (M855; 2 of 8)



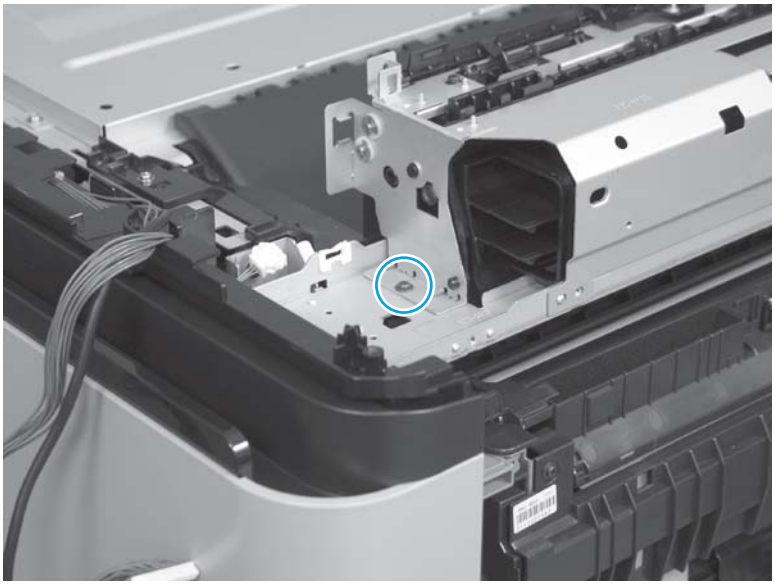
3. Remove two screws.

Figure 1-483 Remove the face-down delivery assembly (M855; 3 of 8)



4. Remove one screw.

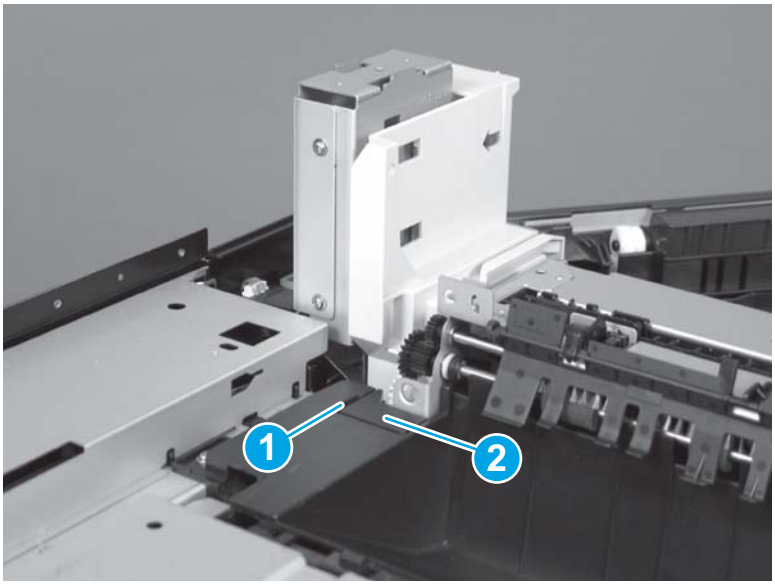
Figure 1-484 Remove the face-down delivery assembly (M855; 4 of 8)



5. Release one tab (callout 1), and then remove one cover (callout 2).

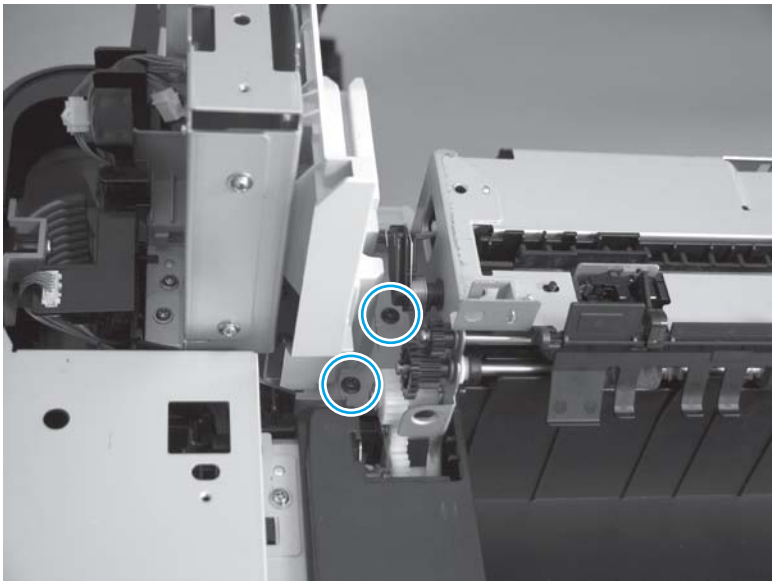
TIP: Use the arrow embossed on the cover to locate the tab.

Figure 1-485 Remove the face-down delivery assembly (M855; 5 of 8)



6. Remove two screws.

Figure 1-486 Remove the face-down delivery assembly (M855; 6 of 8)

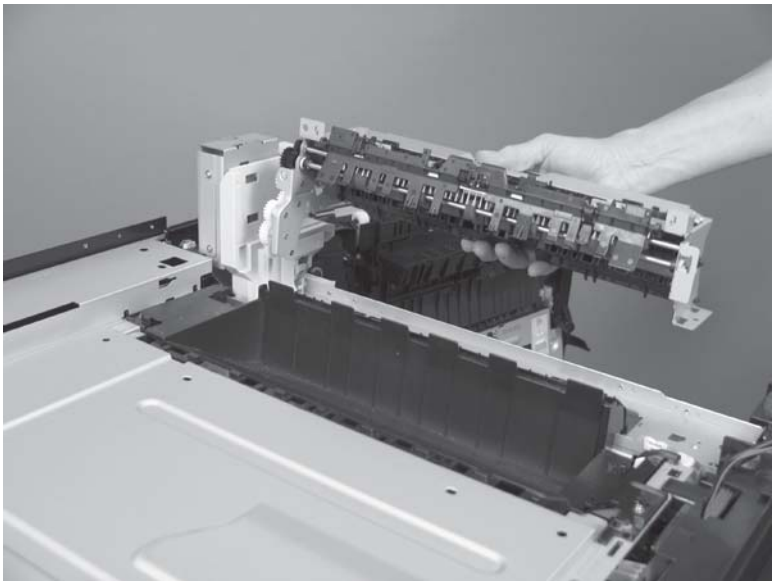


7. Disconnect one connector.

Figure 1-487 Remove the face-down delivery assembly (M855; 7 of 8)

8. Remove the assembly.

Figure 1-488 Remove the face-down delivery assembly (M855; 8 of 8)



Face-down delivery assembly (M880)

Before proceeding, remove the following assemblies:

- Switch back tray. See Switch back tray on page 22.
- Scanner back cover (M880). See Scanner back cover (M880) on page 88.
- Remove one of the following, depending upon product configuration:
  - Face-down bin. See Face-down bin on page 101.
  - Intermediate paper transport unit (IPTU). See IPTU assembly on page 437.
- Switch back cover. See Switch back cover on page 105.
- Rear upper rear cover (M880). See Rear upper rear cover (M880) on page 107.
- Right upper rear cover (M880). See Right upper rear cover (M880) on page 108.
- Rear upper MFP cover (M880). See Rear upper MFP cover (M880) on page 109.
- Left upper rear cover (M880). See Left upper rear cover and rear upper B cover (M880) on page 111.
- Rear upper front cover. See Rear upper front cover (M880) on page 113.
- Front top cover. See Front top cover on page 115.
- Right upper front cover (M880). See Right upper front cover (M880) on page 122.
- Document feeder assembly (M880). See Document feeder assembly (M880) on page 154.
- Scanner assembly (M880). See Scanner assembly (M880) on page 162.
- Duplex reverse assembly (M880). See Duplex reverse assembly (M880) on page 320.

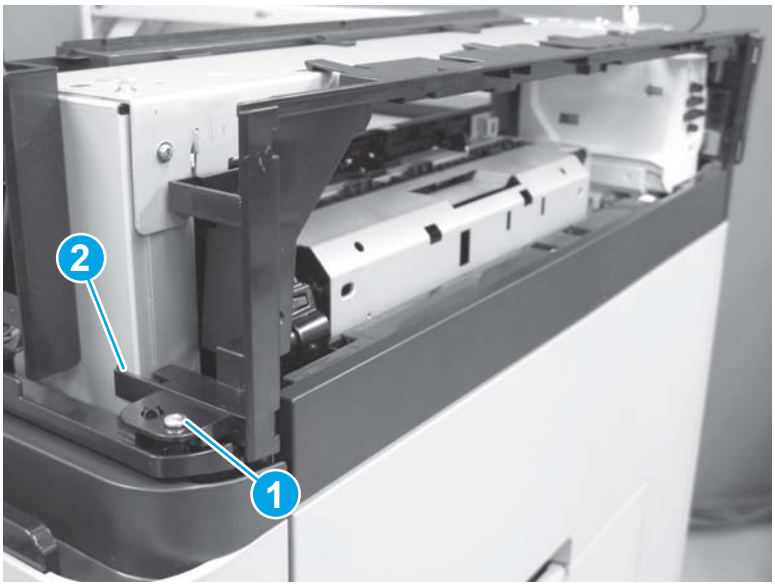
Remove the face-down delivery assembly (M880)

1. Remove one screw.

Figure 1-489 Remove the face-down delivery assembly (M880; 1 of 19)

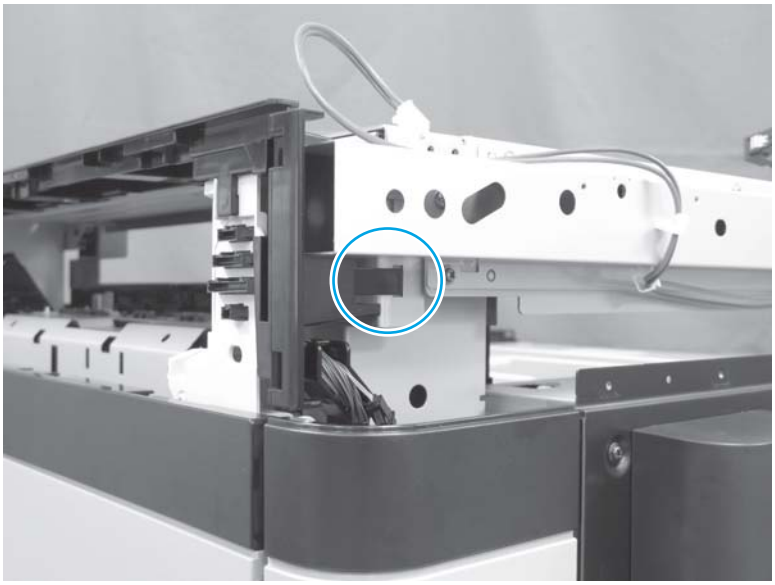
2. Remove one screw (callout 1), and then release one tab (callout 2).

Figure 1-490 Remove the face-down delivery assembly (M880; 2 of 19)



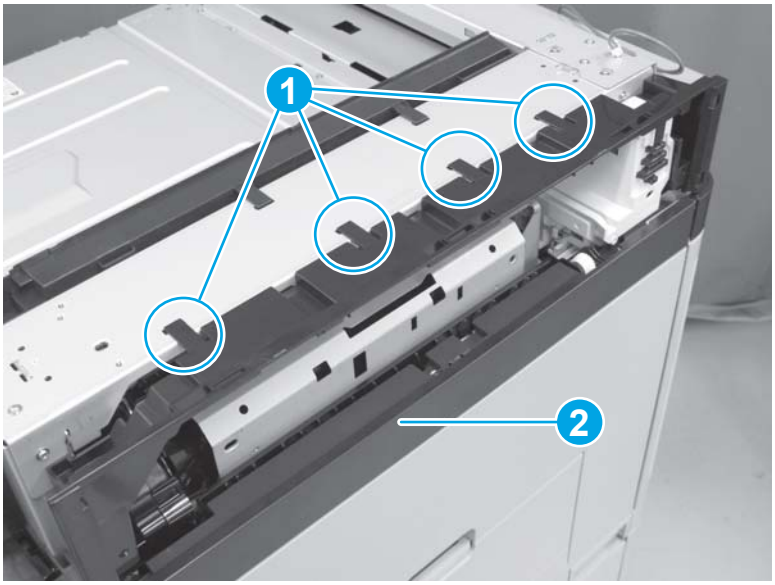
3. Release one tab.

Figure 1-491 Remove the face-down delivery assembly (M880; 3 of 19)



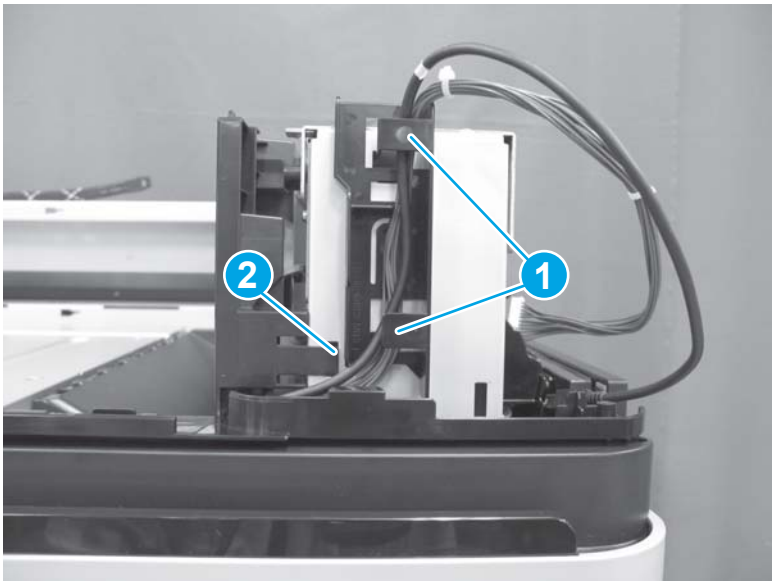
4. Release four tabs (callout 1), and then remove the switch back inner cover (callout 2).

Figure 1-492 Remove the face-down delivery assembly (M880; 4 of 19)



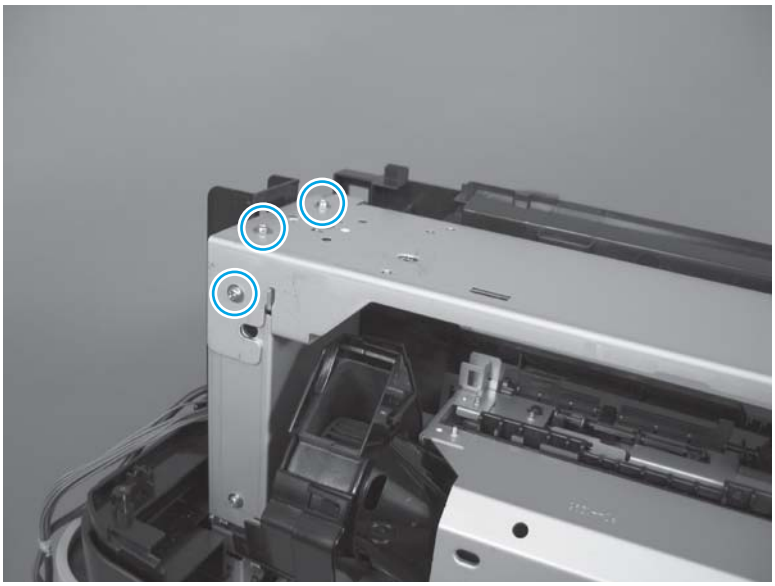
5. Release the wire harness and USB cable from the guide (callout 1), and then release one tab (callout 2).

Figure 1-493 Remove the face-down delivery assembly (M880; 5 of 19)



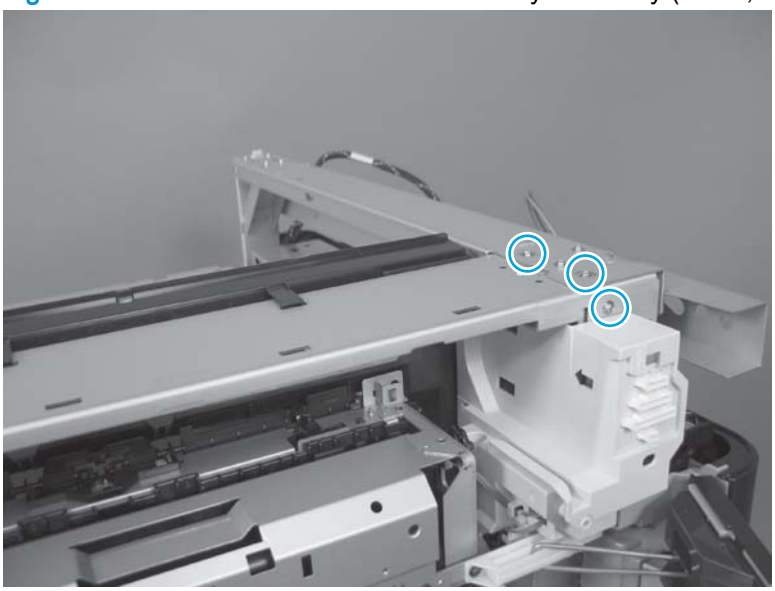
6. Remove three screws.

Figure 1-494 Remove the face-down delivery assembly (M880; 6 of 19)



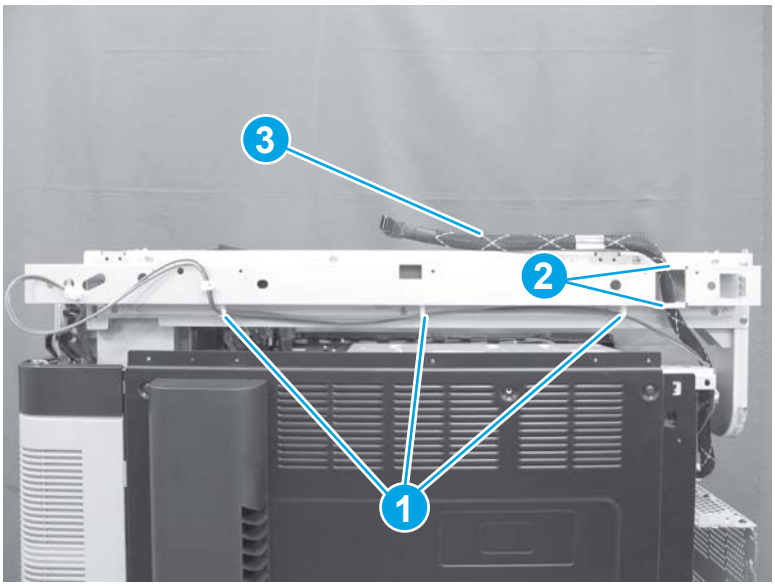
7. Remove three screws.

Figure 1-495 Remove the face-down delivery assembly (M880; 7 of 19)



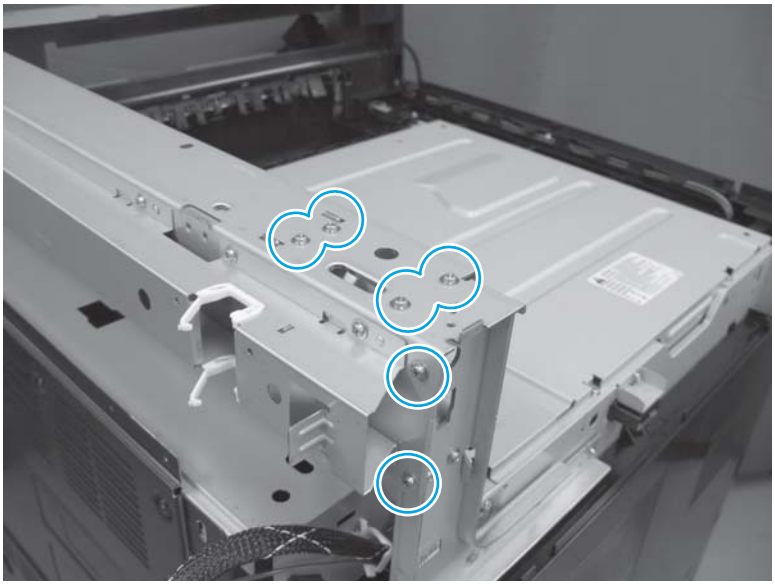
8. Release the wire harness from the retainers (callout 1), open two retainers (callout 2), and then release a second wire harness (callout 3) from the sheet-metal bracket.

Figure 1-496 Remove the face-down delivery assembly (M880; 8 of 19)



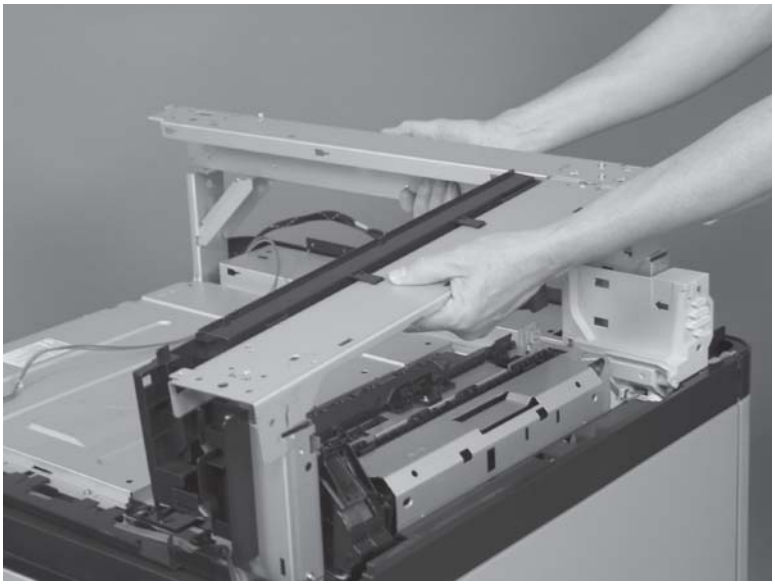
9. Remove six screws.

Figure 1-497 Remove the face-down delivery assembly (M880; 9 of 19)



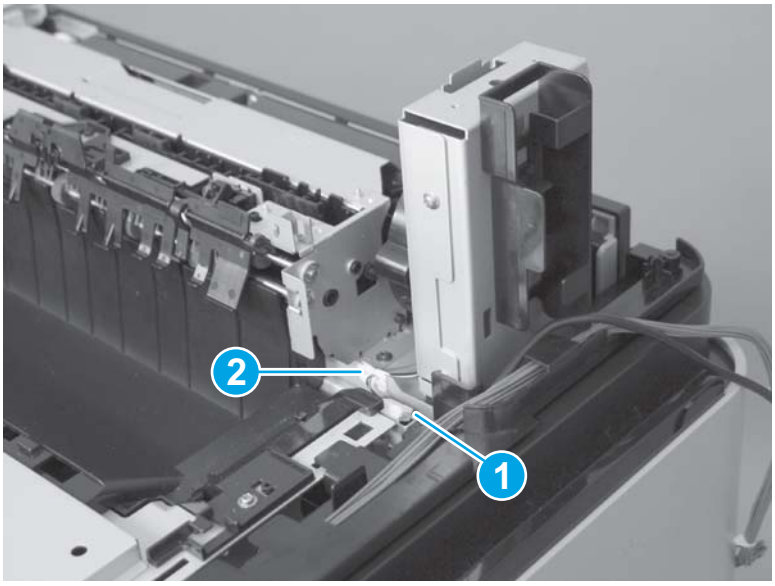
10. Remove the sheet-metal bracket.

Figure 1-498 Remove the face-down delivery assembly (M880; 10 of 19)



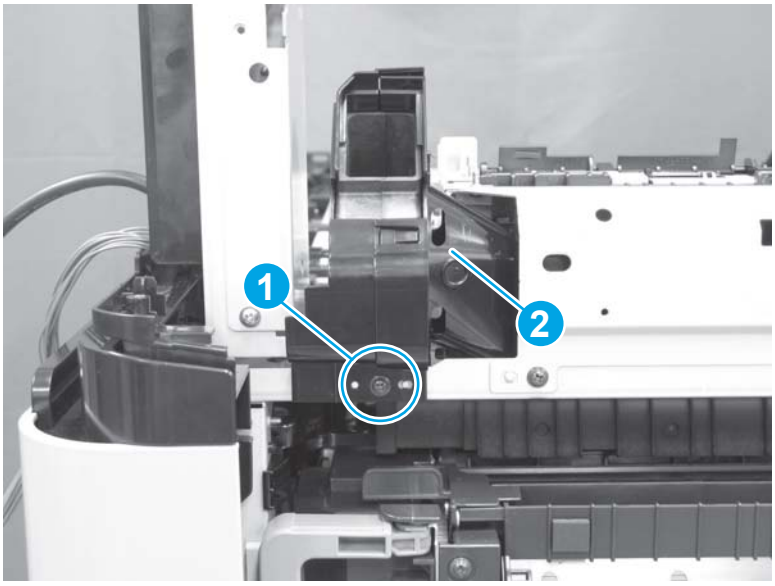
11. Disconnect one connector (callout 1), and then release the wire harness from the retainer (callout 2).

Figure 1-499 Remove the face-down delivery assembly (M880; 11 of 19)



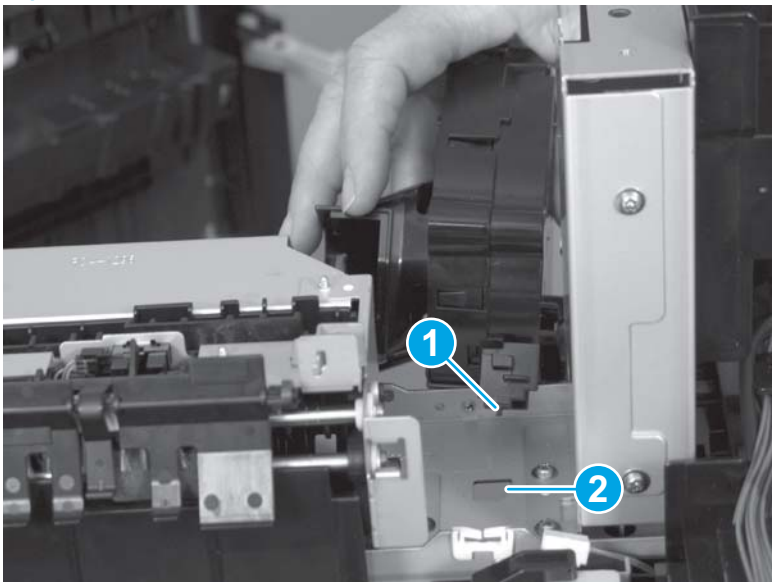
12. Remove one screw (callout 1), and then remove the VOC fan (callout 2).

Figure 1-500 Remove the face-down delivery assembly (M880; 12 of 19)



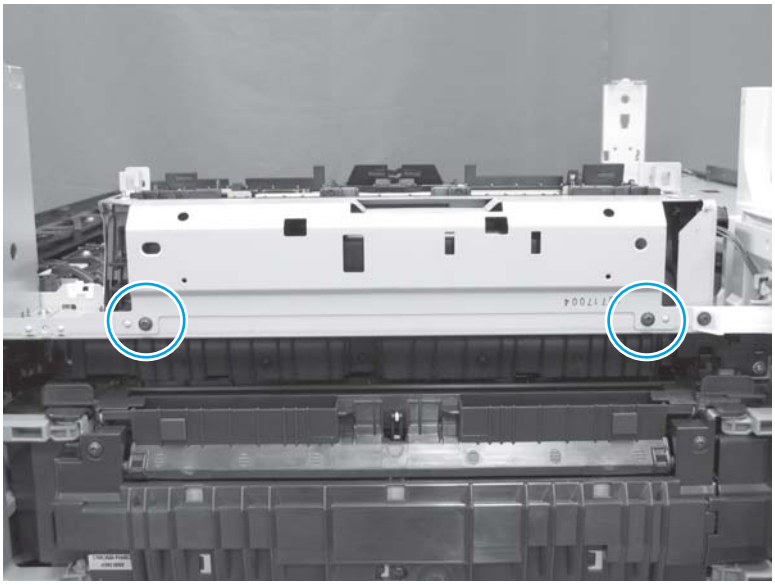
Reinstallation tip When the fan is reinstalled, make sure that the tab (callout 1) on the fan fits into the slot (callout 2) on the chassis.

Figure 1-501 Remove the face-down delivery assembly (M880; 13 of 19)



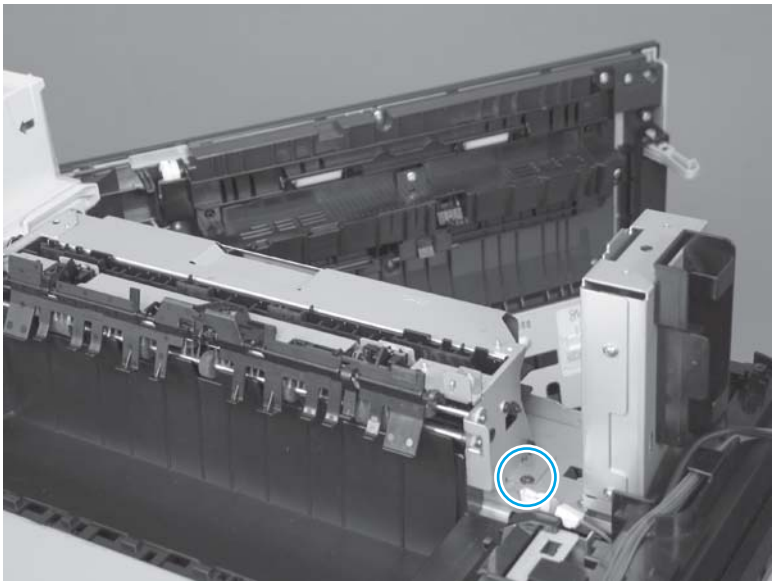
13. Remove two screws.

Figure 1-502 Remove the face-down delivery assembly (M880; 14 of 19)



14. Remove one screw.

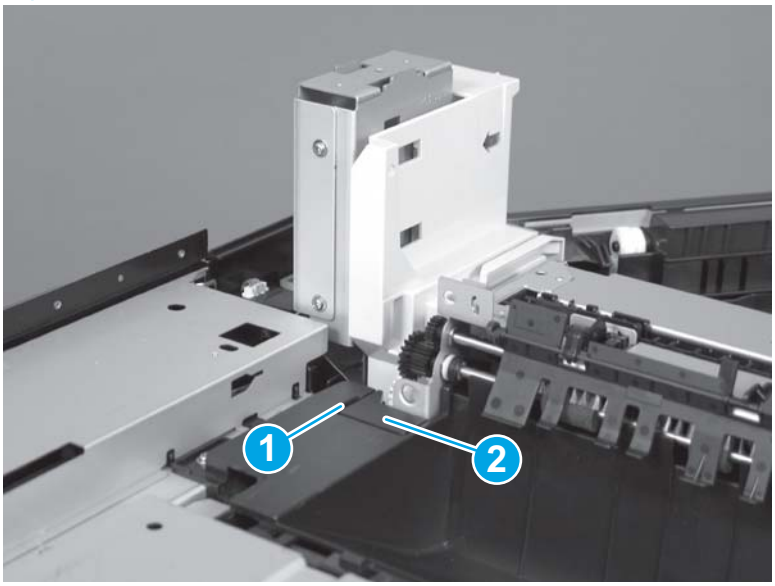
Figure 1-503 Remove the face-down delivery assembly (M880; 15 of 19)



15. Release one tab (callout 1), and then remove one cover (callout 2).

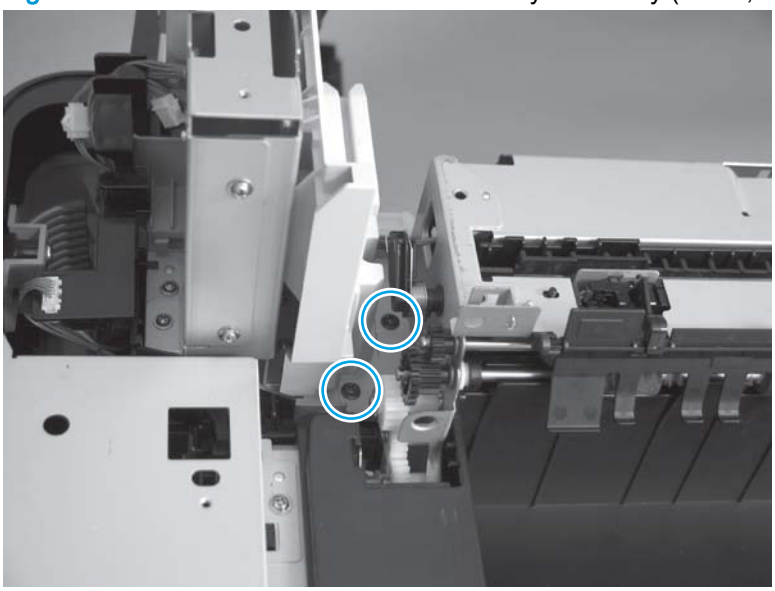
TIP: Use the arrow embossed on the cover to locate the tab.

Figure 1-504 Remove the face-down delivery assembly (M880; 16 of 19)



16. Remove two screws.

Figure 1-505 Remove the face-down delivery assembly (M880; 17 of 19)

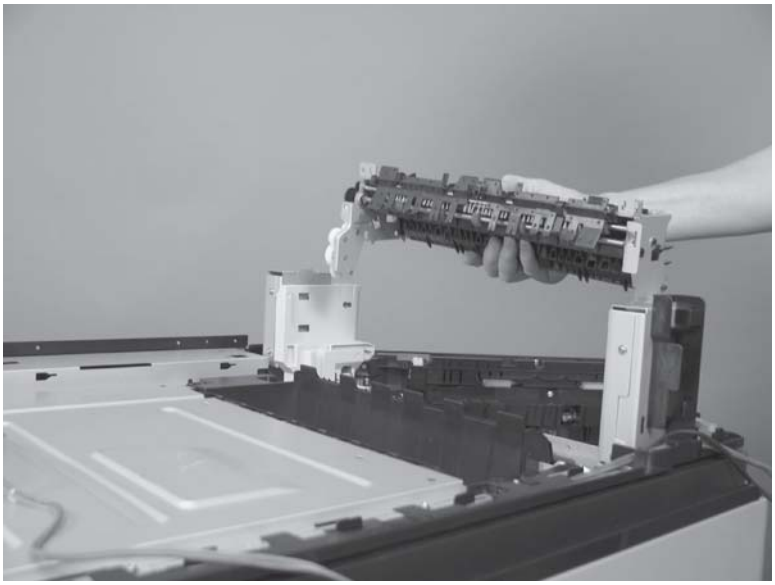


17. Disconnect one connector.

Figure 1-506 Remove the face-down delivery assembly (M880; 18 of 19)

18. Remove the assembly.

Figure 1-507 Remove the face-down delivery assembly (M880; 19 of 19)



Face-down cover

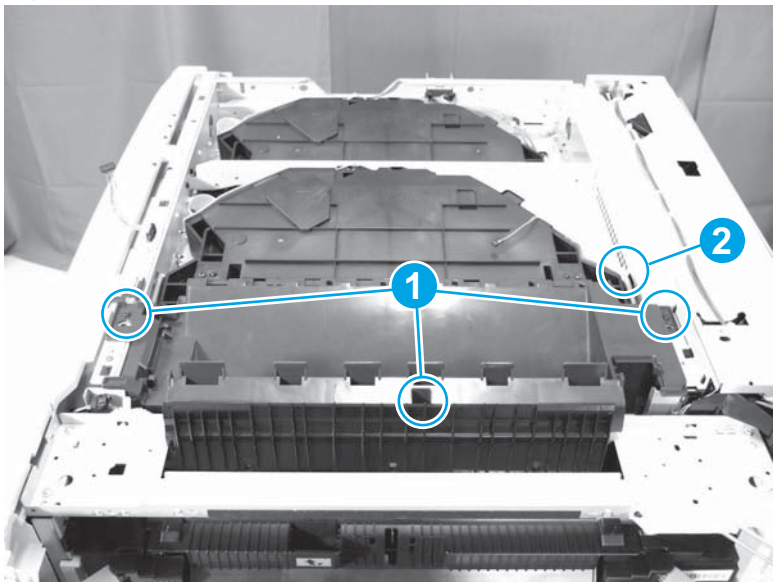
Before proceeding, remove the following assemblies:

- Switch back tray. See Switch back tray on page 22.
- Control panel assembly (M855). See Control panel assembly (M855) on page 47.
- Control panel assembly (M880). See Control panel assembly (M880) on page 53.
- Scanner back cover (M880). See Scanner back cover (M880) on page 88.
- Right upper rear cover (M855). See Right upper rear cover (M855) on page 96.
- Right upper rear cover (M880). See Right upper rear cover (M880) on page 108.
- Remove one of the following, depending upon product configuration:
  - Face-down bin. See Face-down bin on page 101.
  - Intermediate paper transport unit (IPTU). See IPTU assembly on page 437.
- Switch back cover. See Switch back cover on page 105.
- Front top cover. See Front top cover on page 115.
- Rear top cover. See Rear top cover (M855) on page 116.
- Right upper front cover (M855). See Right upper front cover (M855) on page 120.
- Right upper front cover (M880). See Right upper front cover (M880) on page 122.
- Right upper cover (M855). See Right upper cover (M855) on page 124.
- Document feeder assembly (M880). See Document feeder assembly (M880) on page 154.
- Scanner assembly (M880). See Scanner assembly (M880) on page 162.
- Scanner cover. See Scanner cover on page 306.
- Duplex reverse assembly (M880). See Duplex reverse assembly (M880) on page 320.
- Duplex reverse assembly (M855). See Duplex reverse assembly (M855) on page 319.
- Face-down delivery assembly (M855). See Face-down delivery assembly(M855) on page 327.
- Face-down delivery assembly (M880). See Face-down delivery assembly (M880) on page 332.

Remove the face-down cover

Remove three screws (callout 1), disconnect one connector (callout 2), and then remove the face-down cover.

Figure 1-508 Remove face-down cover

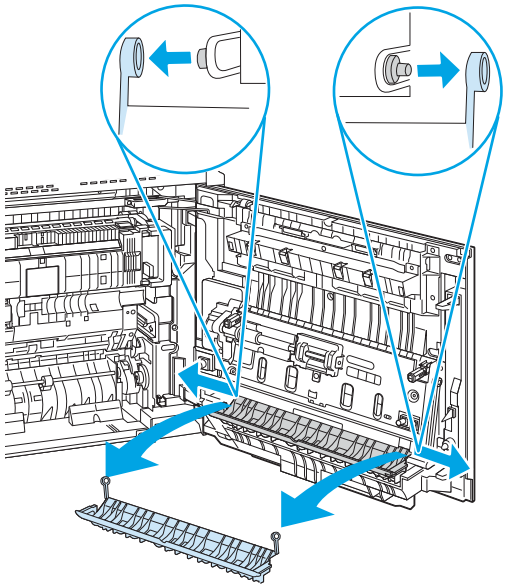


Duplexing feed assembly

IMPORTANT: If you are installing a replacement duplexing feed assembly, you must use the Service menu to set the New Duplex Roller item to Yes. See Reinstall the duplexing feed assembly on page 349.

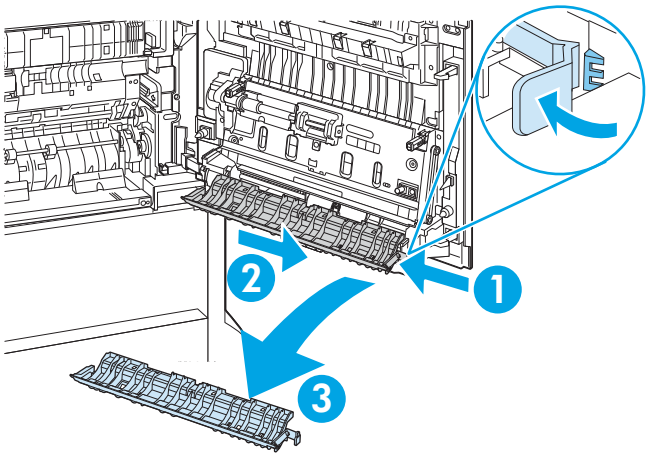
1. Open the right door.
2. Release two hinge pins and then remove the paper-feed cover.

Figure 1-509 Remove the duplexing feed assembly (1 of 7)



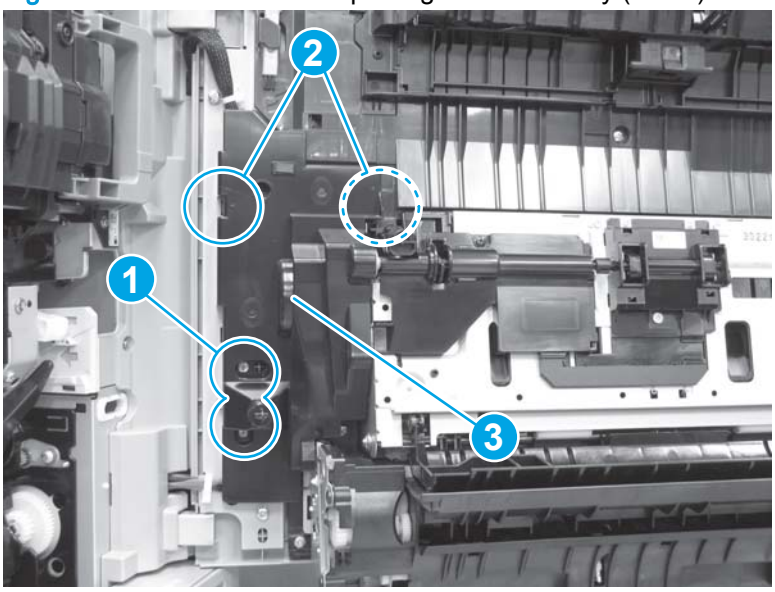
3. Release one tab (callout 1), slide the multipurpose upper feed guide to the right to release it (callout 2), and then lift it away from the door (callout 3) to remove it.

Figure 1-510 Remove the duplexing feed assembly (2 of 7)



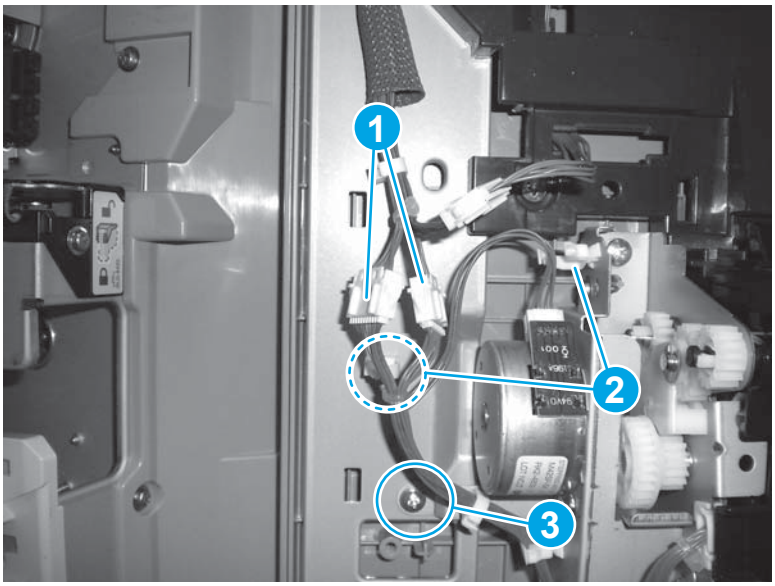
4. On the right door assembly, remove two self-tapping screws (callout 1), release two tabs (callout 2), and then remove the motor cover (callout 3).

Figure 1-511 Remove the duplexing feed assembly (3 of 7)



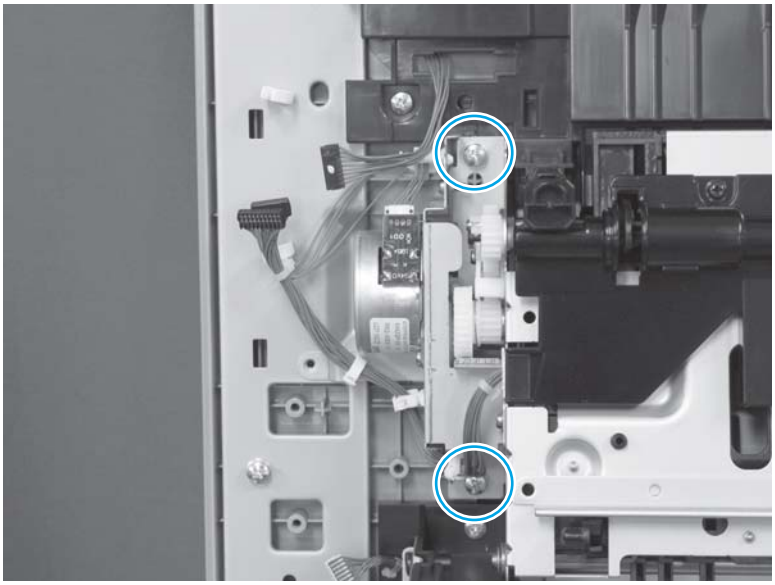
5. Disconnect two connectors (callout 1), release the wire harnesses from two retainers (callout 2), and then remove one screw (callout 3).

Figure 1-512 Remove the duplexing feed assembly (4 of 7)



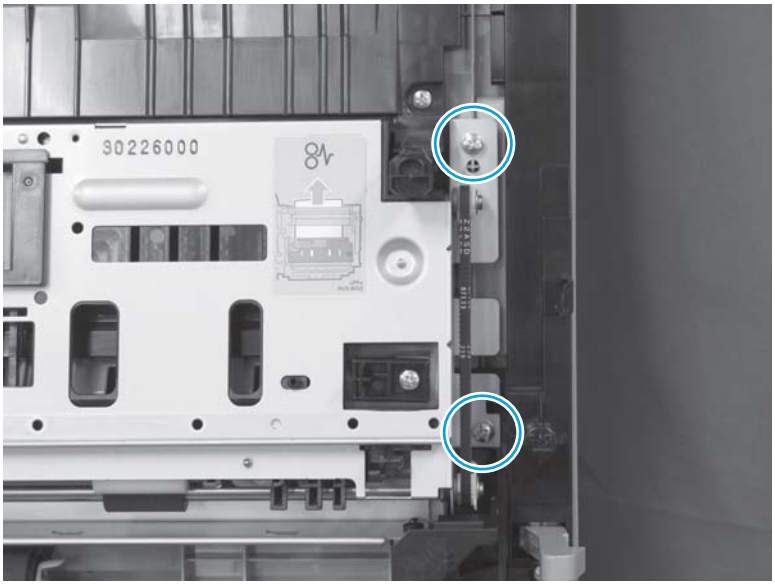
6. Remove two screws.

Figure 1-513 Remove the duplexing feed assembly (5 of 7)



7. Remove two screws.

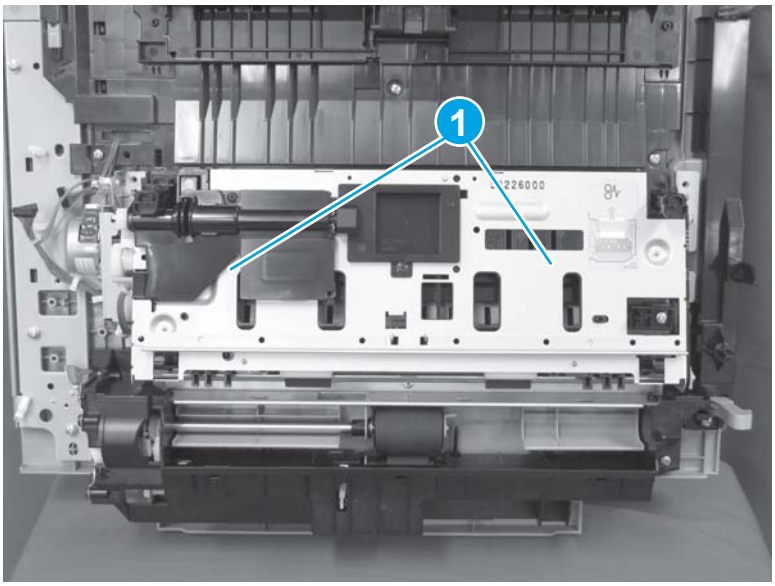
Figure 1-514 Remove the duplexing feed assembly (6 of 7)



8. Remove the duplexing feed assembly (callout 1).

Reinstallation tip When reinstalling the duplexing feed assembly, make sure that there are no gaps between the part and the door.

Figure 1-515 Remove the duplexing feed assembly (7 of 7)



Reinstall the duplexing feed assembly

IMPORTANT: If a replacement duplexing feed assembly is installed, you must follow the instructions below to reset the counter. Failure to follow these instructions might result in more frequent paper jams.

Installing a replacement duplexing feed assembly

If a replacement duplexing feed assembly is installed, do the following:

1. From the Home screen on the control panel, scroll to and touch the Device Maintenance button.
2. Open the Service menu.
3. On the sign-in screen, select the Service Access Code option from the drop-down list.
4. Enter one of the following service access codes:
   - **M855**: 11085513
   - **M880**: 11088013
5. Reset the following value:
   - New Duplex Roller; set to Yes

Multipurpose tray (Tray 1) pickup assembly

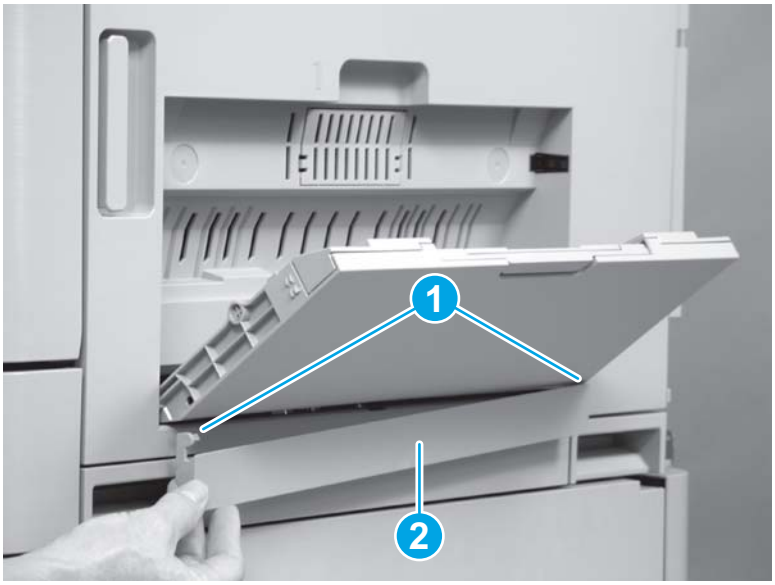
Before proceeding, remove the following assemblies:

- Duplexing feed assembly. See Duplexing feed assembly on page 345

Remove the multipurpose tray (Tray 1) pickup assembly

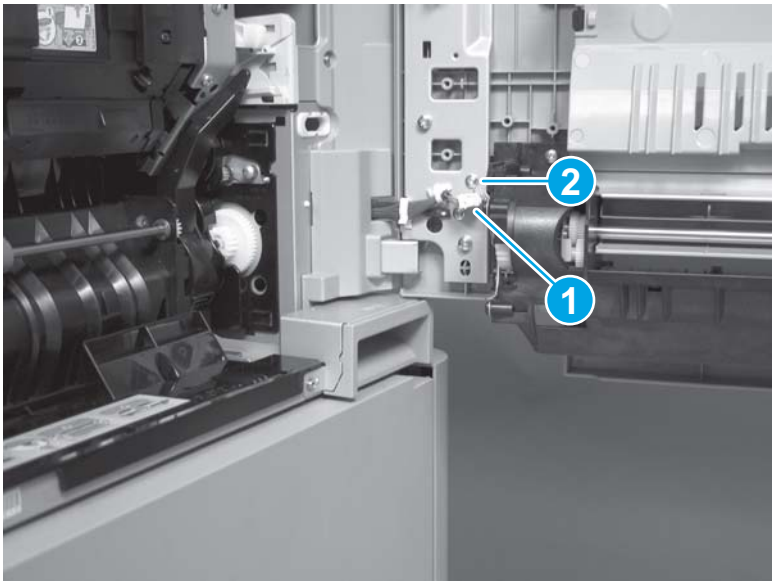
1. Open Tray 1, release two hinge pins (callout 1), and then remove the Tray 1 lower cover (callout 2).

   Figure 1-516 Remove the multipurpose tray (Tray 1) pickup assembly (1 of 10)

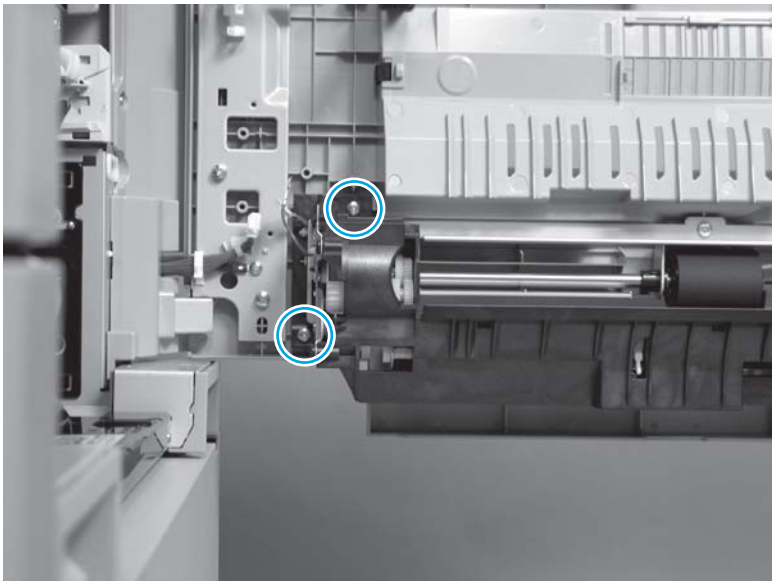
2. Disconnect one connector (callout 1), and then remove one screw (callout 2) to release the ground wire.

   Figure 1-517 Remove the multipurpose tray (Tray 1) pickup assembly (2 of 10)

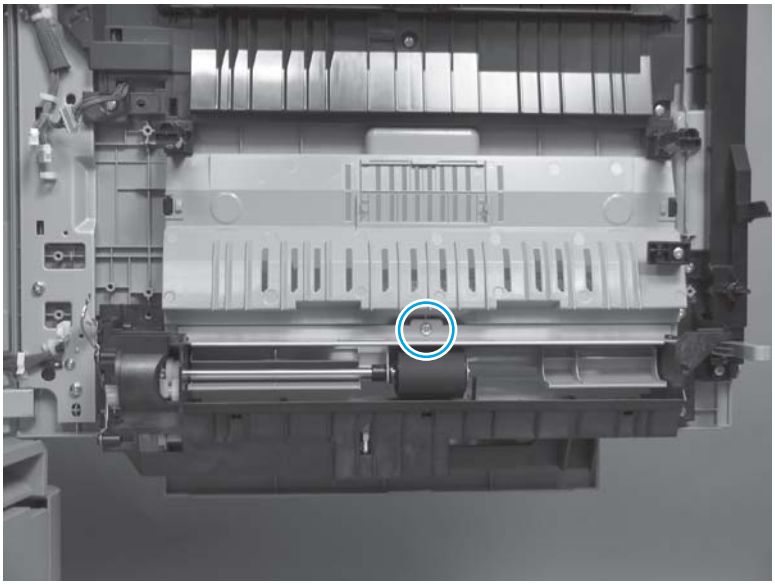
3. Remove two screws.

Figure 1-518 Remove the multipurpose tray (Tray 1) pickup assembly (3 of 10)



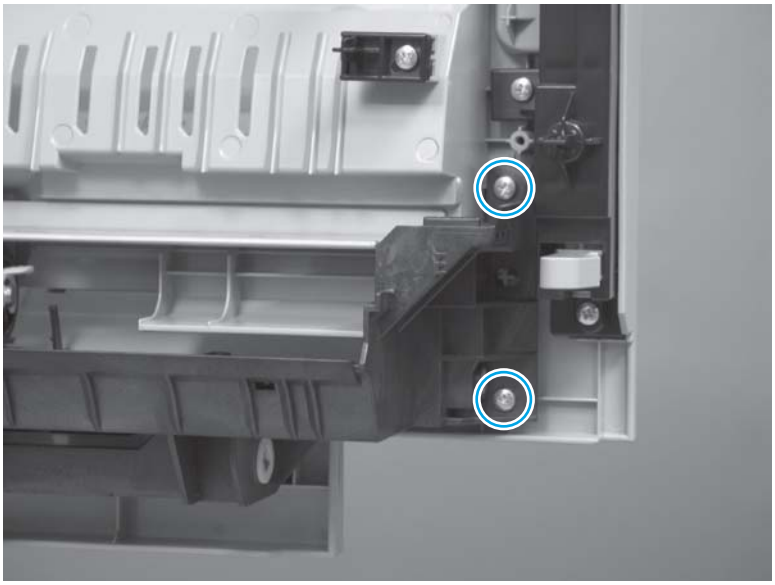
4. Remove one screw.

Figure 1-519 Remove the multipurpose tray (Tray 1) pickup assembly (4 of 10)



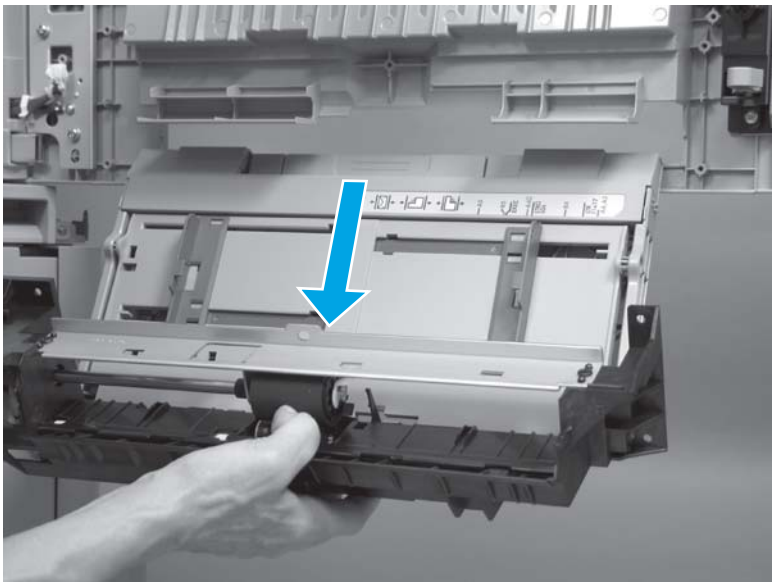
5. Remove two screws.

Figure 1-520 Remove the multipurpose tray (Tray 1) pickup assembly (5 of 10)



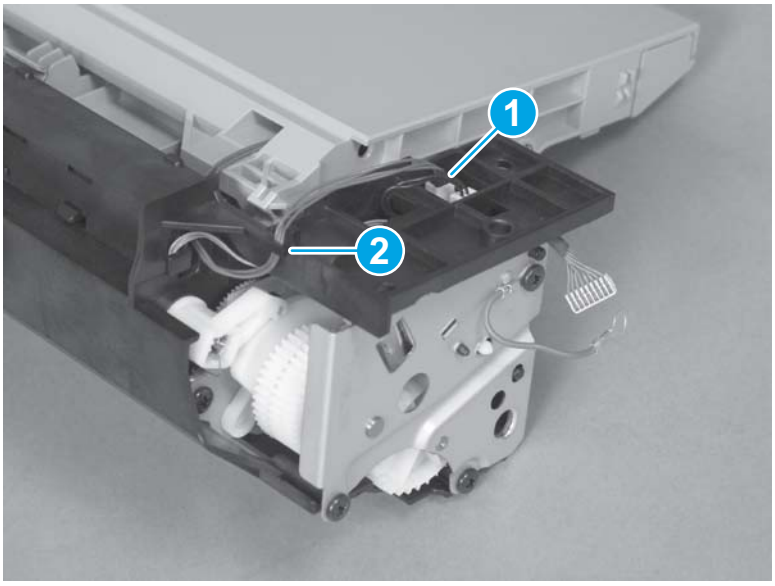
6. Make sure that Tray 1 is open, and then pull downward to remove Tray 1 and the Tray 1 pickup assembly together.

Figure 1-521 Remove the multipurpose tray (Tray 1) pickup assembly (6 of 10)



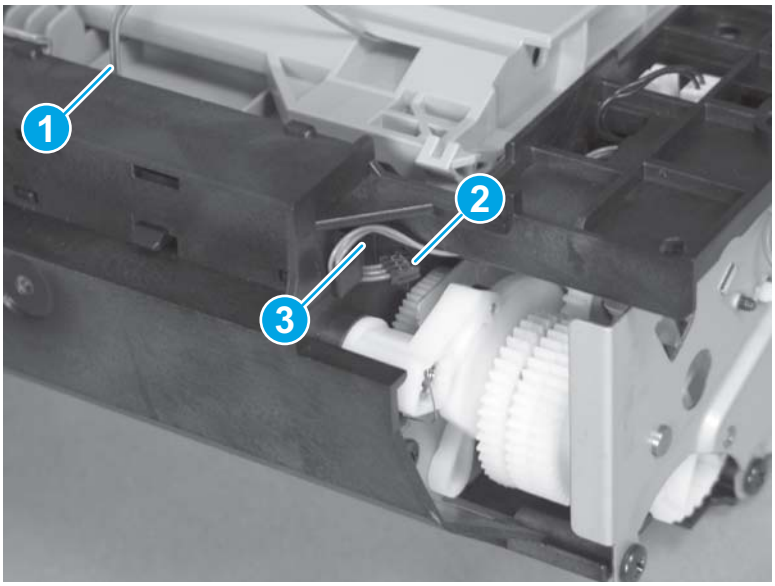
7. Disconnect one connector (callout 1), and then release the wire harness from the guide (callout 2).

Figure 1-522 Remove the multipurpose tray (Tray 1) pickup assembly (7 of 10)



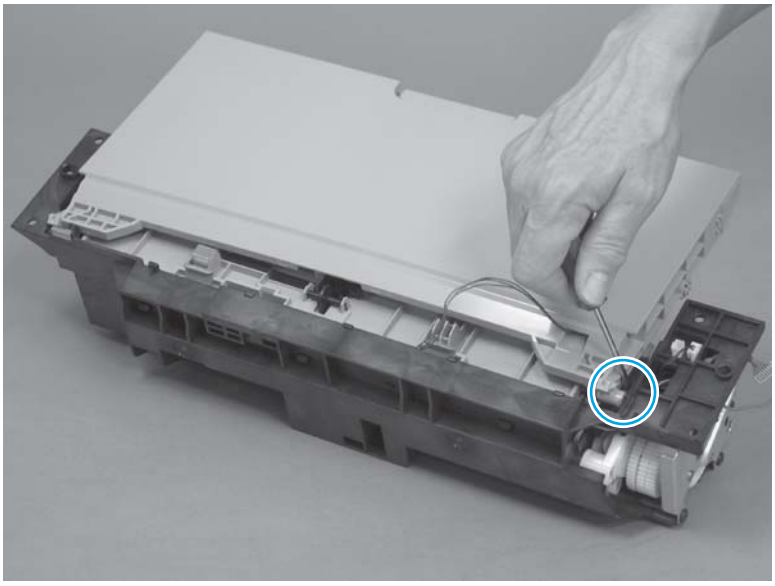
8. Gently pull on one wire harness (callout 1) to bring the connector (callout 2) through the slot (callout 3).

Figure 1-523 Remove the multipurpose tray (Tray 1) pickup assembly (8 of 10)



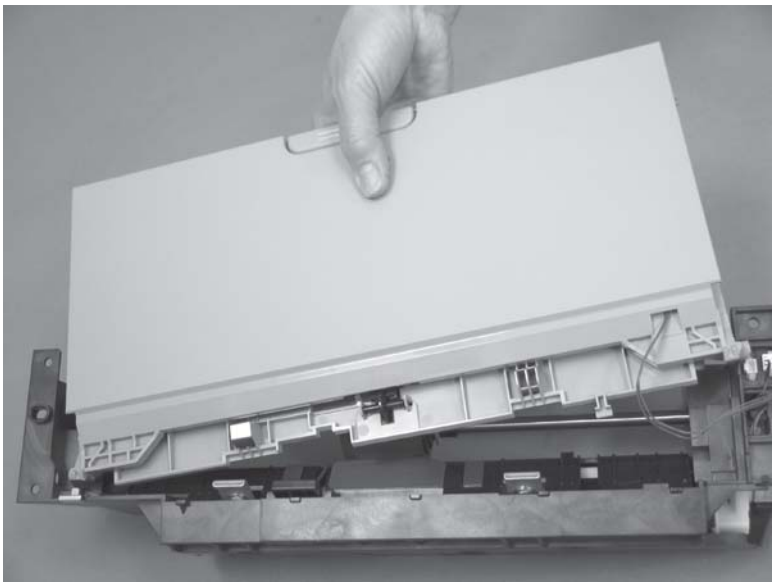
9. Use a small flat-blade screwdriver to release the shaft at the left side of the tray, and then separate the tray and the pickup assembly.

Figure 1-524 Remove the multipurpose tray (Tray 1) pickup assembly (9 of 10)



10. Remove Tray 1 from the pickup assembly.

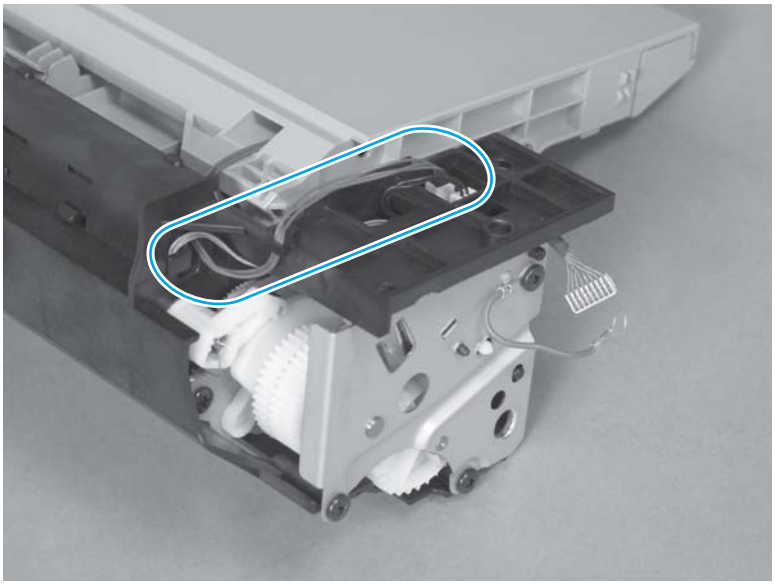
Figure 1-525 Remove the multipurpose tray (Tray 1) pickup assembly (10 of 10)



Reinstall the multipurpose tray (Tray 1) pickup assembly

Make sure that the wire harness is correctly installed when the assembly is reinstalled.

Figure 1-526 Reinstall the multipurpose tray (Tray 1) pickup assembly



Input accessories

This section includes information about the following topics:

- High-capacity input (HCI) feeder
- 1x500- and 3x500-sheet feeders
- Shared input accessory covers and doors

High-capacity input (HCI) feeder

NOTE: Some of the procedures in this section require the product to be removed from the input accessory.

Location of major components

Figure 1-527 External covers and doors

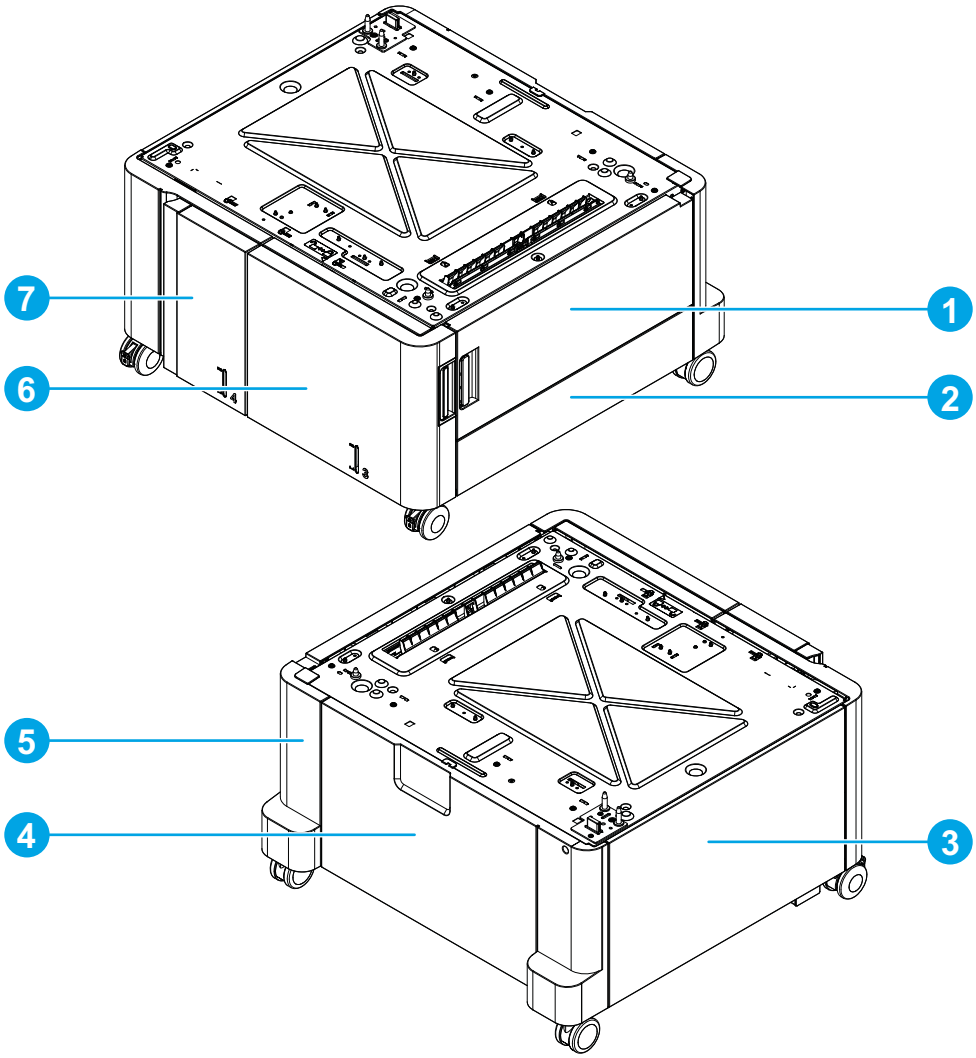


Table 1-11 External covers and doors

Item	Description	Item	Description
1	Right door assembly	5	Right rear cover
2	Right lower cover	6	Right tray
3	Left cover	7	Left tray
4	Rear cover		

Figure 1-528 Main assemblies (1 of 2)

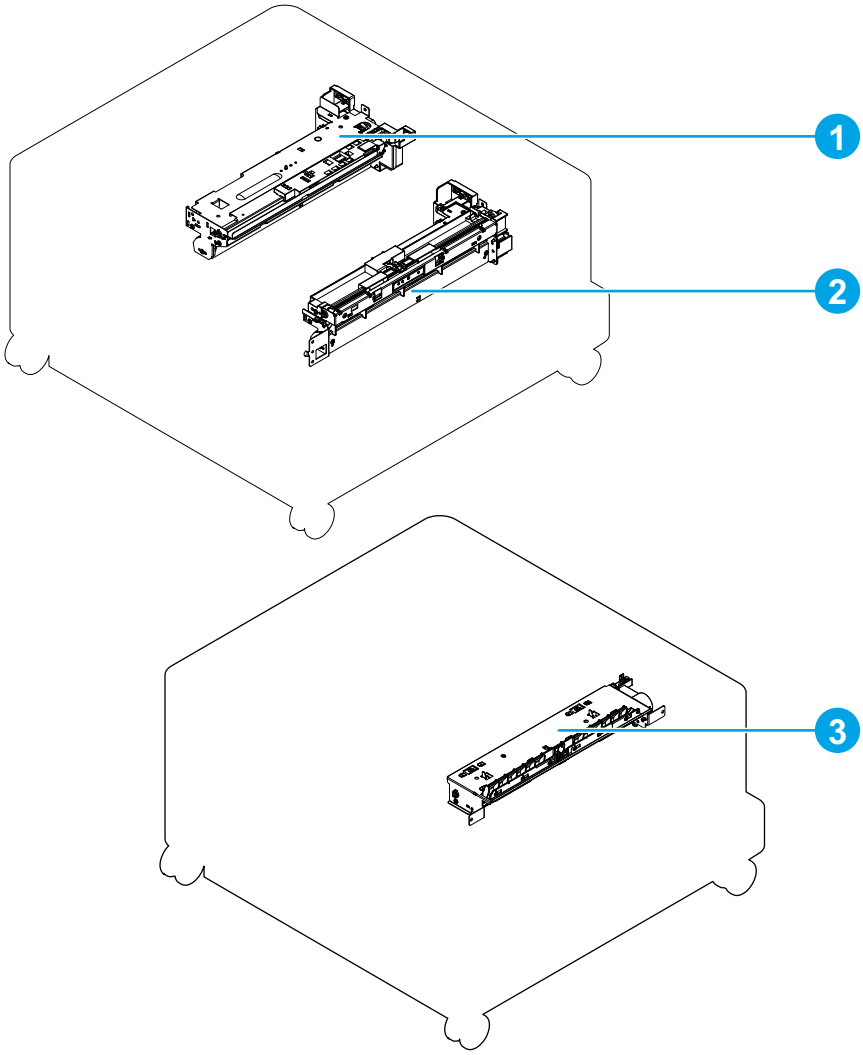


Table 1-12 Main assemblies (1 of 2)

Item	Description	Item	Description
1	Left tray pickup assembly	3	Merge assembly
2	Right tray pickup assembly		

Figure 1-529 Main assemblies (2 of 2)

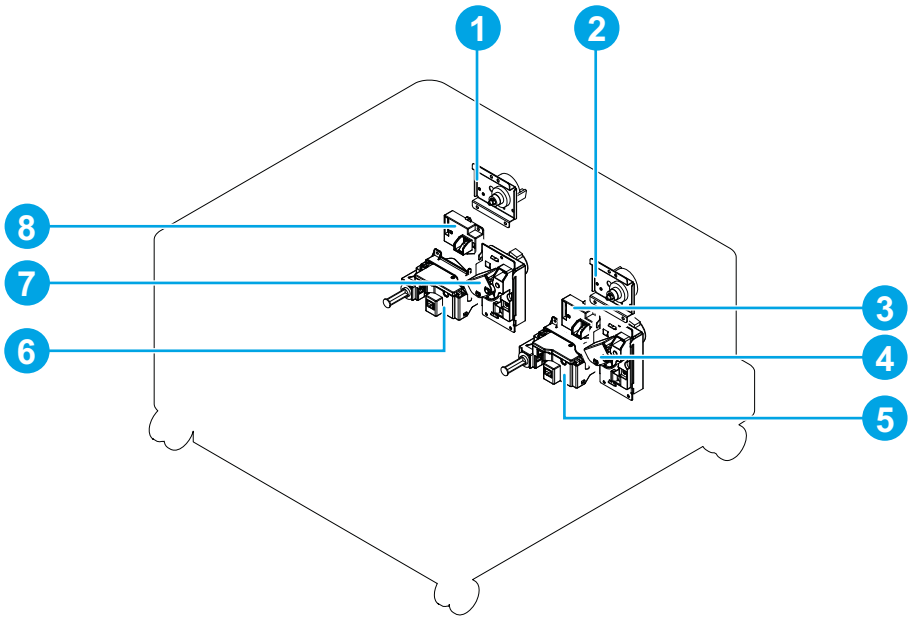


Table 1-13 Main assemblies (2 of 2)

Item	Description	Item	Description
1	Left tray pickup drive assembly	5	Right tray automatic close assembly
2	Right tray pickup drive assembly	6	Left tray automatic close assembly
3	Right tray media-level sensor assembly	7	Left tray lifter drive assembly
4	Right tray lifter drive assembly	8	Left tray media-level sensor assembly

Figure 1-530 Printed circuit assembly (PCA)

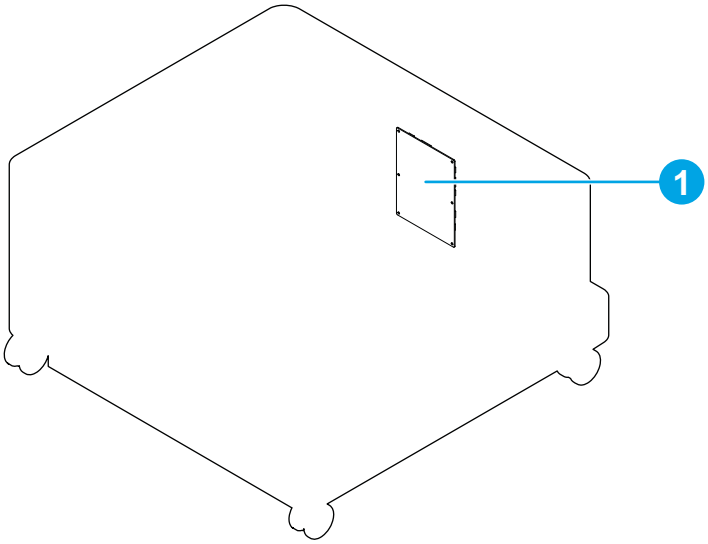


Table 1-14 Printed circuit assembly (PCA)

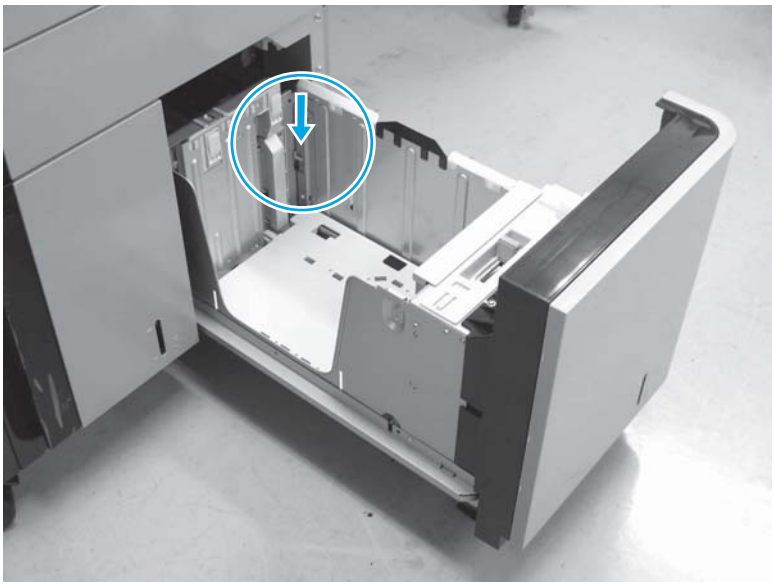
Item	Description	Item	Description
1	HCI controller PCA		

HCI right tray

1. Open the right tray.
2. Lower the tray release lever, and then remove the right tray.

NOTE: When the tray is reinstalled, the release lever automatically returns to the locked position.

Figure 1-531 Remove the HCI right tray

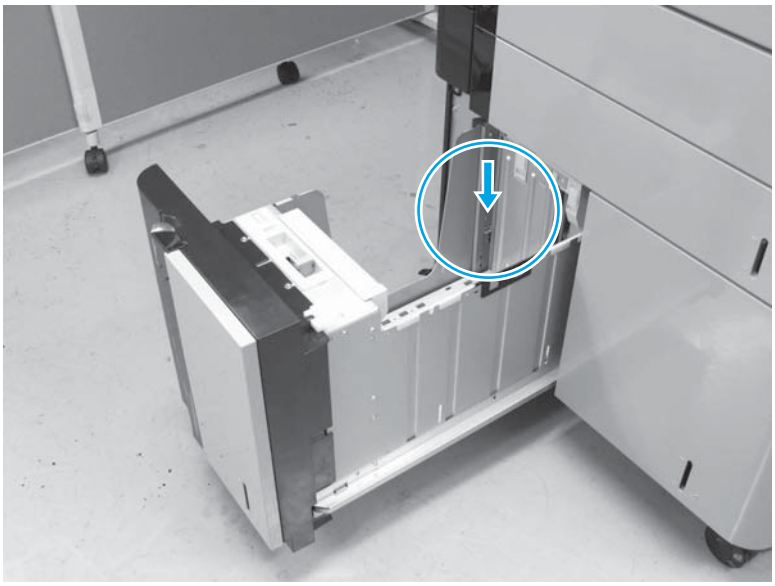


HCI left tray

1. Open the left tray.
2. Lower the tray release lever, and then remove the left tray.

NOTE: When the tray is reinstalled, the release lever automatically returns to the locked position.

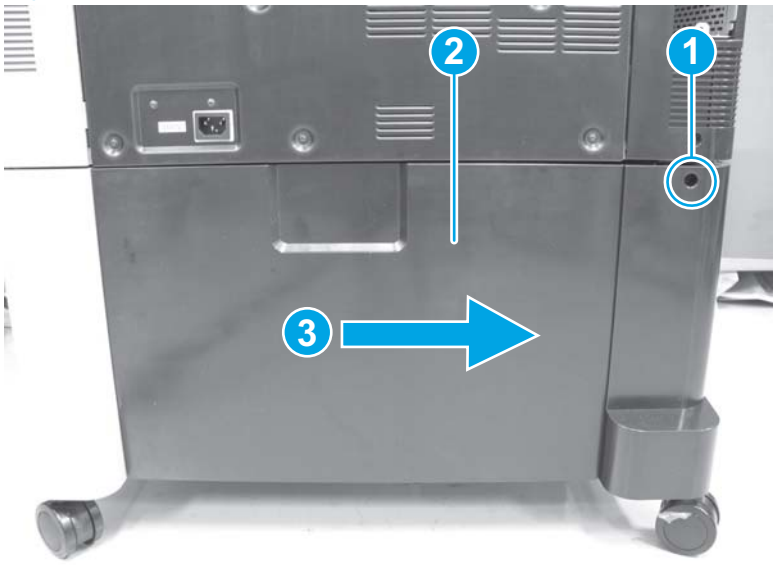
Figure 1-532 Remove the HCI left tray



HCI rear cover

Remove one screw (callout 1), and then slide the rear cover (callout 2) toward the left door to remove it (callout 3).

Figure 1-533 Remove the HCI rear cover



HCI right lower cover

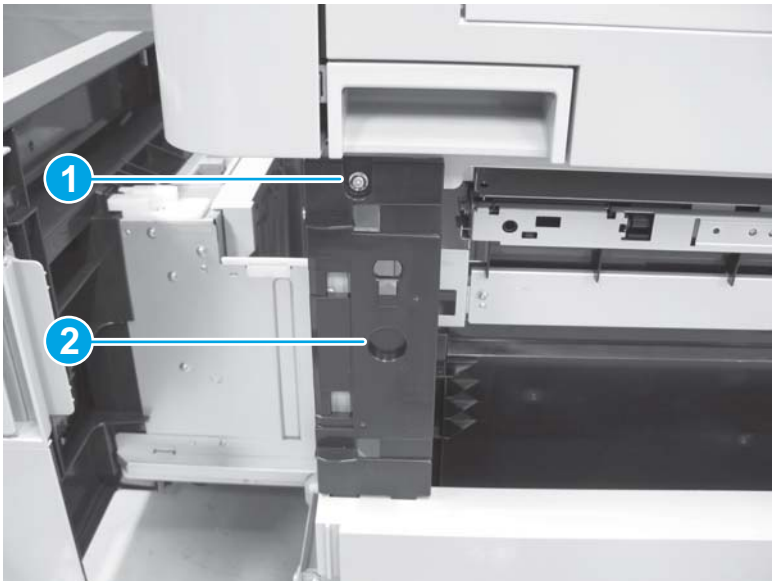
Before proceeding, remove the following assemblies:

- HCI rear cover. See HCI rear cover on page 362.
- HCI, 1x500, and 3x500 right door assembly. See HCI, 1x500, and 3x500 right door assembly on page 428.
- HCI, 1x500, and 3x500 right rear cover. See HCI, 1x500, and 3x500 right rear cover on page 430.

Remove the HCI right lower cover

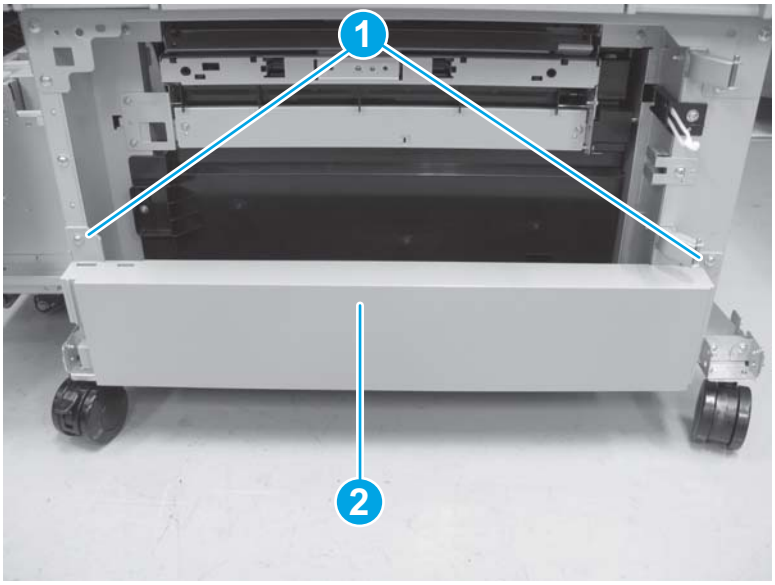
1. Open the right tray.
2. Remove one screw (callout 1), and then remove the lock holder (callout 2).

Figure 1-534 Remove the HCI right lower cover (1 of 2)



3. Remove two screws (callout 1), and then remove the HCI right lower cover (callout 2).

Figure 1-535 Remove the HCI right lower cover (2 of 2)



HCI right tray pickup motor

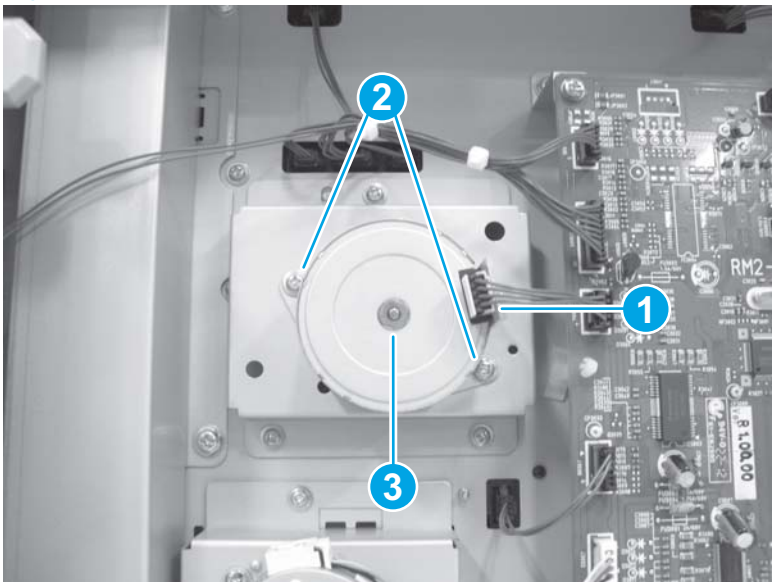
Before proceeding, remove the following assemblies:

- HCI rear cover. See HCI rear cover on page 362.

Remove the HCI right tray pickup motor

Disconnect one connector (callout 1), remove two screws (callout 2), and then remove the right tray pickup motor (callout 3).

Figure 1-536 Remove the HCI right tray pickup motor



HCI right tray pickup drive

Before proceeding, remove the following assemblies:

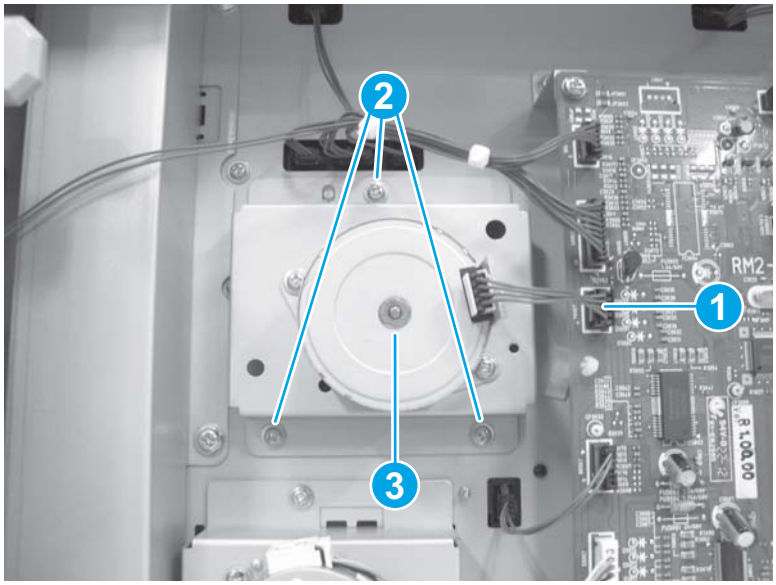
- HCI rear cover. See HCI rear cover on page 362.

Remove the HCI right tray pickup drive

Disconnect one connector (callout 1), remove three screws (callout 2), and then remove the right tray pickup drive (callout 3).

NOTE: If you are replacing the HCI right tray pickup drive, remove the HCI right tray pickup motor from the old part and move it to the replacement part. See HCI right tray pickup motor on page 365.

Figure 1-537 Remove the HCI right tray pickup drive (1 of 2)



HCI left tray pickup motor

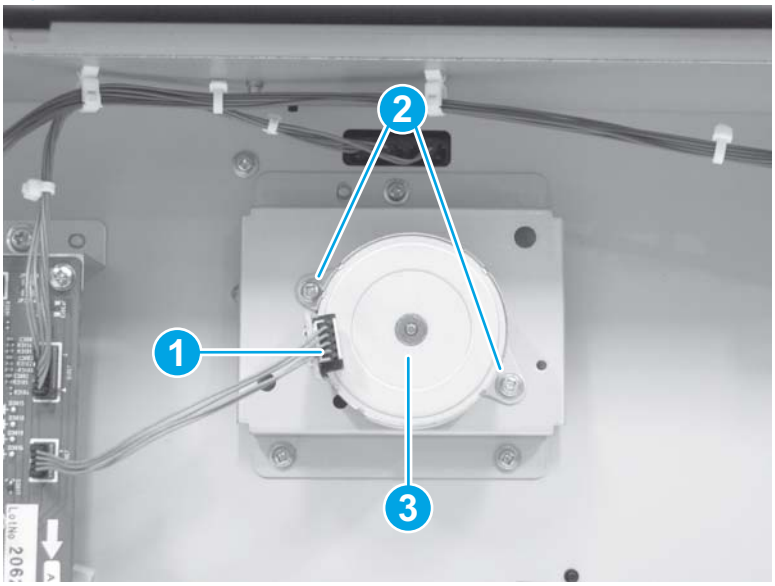
Before proceeding, remove the following assemblies:

- HCI rear cover. See HCI rear cover on page 362.

Remove the HCI left tray pickup motor

Disconnect one connector (callout 1), remove two screws (callout 2), and then remove the left tray pickup motor (callout 3).

Figure 1-538 Remove the HCI left tray pickup motor



HCI left tray pickup drive

Before proceeding, remove the following assemblies:

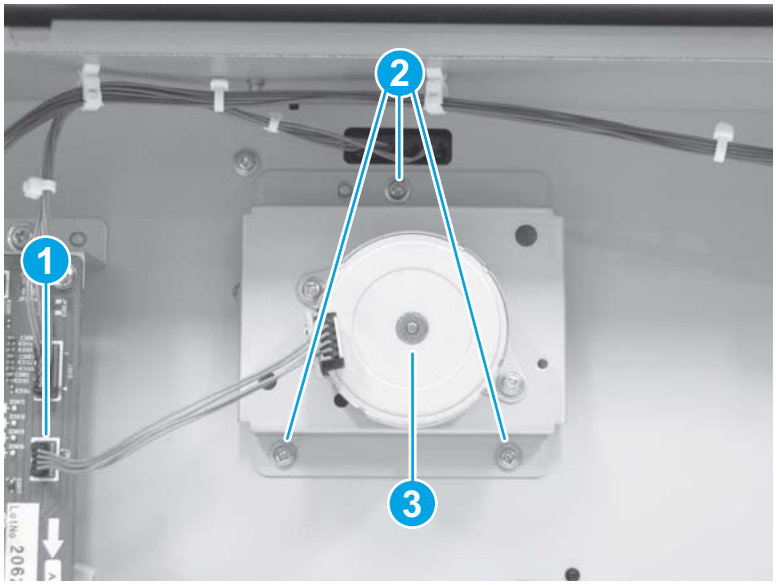
- HCI rear cover. See HCI rear cover on page 362.

Remove the HCI left tray pickup drive

Disconnect one connector (callout 1), remove three screws (callout 2), and then remove the left tray pickup drive (callout 3).

NOTE: If you are replacing the HCI left tray pickup drive, remove the HCI left tray pickup motor from the old part and move it to the replacement part. See HCI left tray pickup motor on page 367.

Figure 1-539 Remove the HCI left tray pickup drive



HCI right tray lifter drive assembly

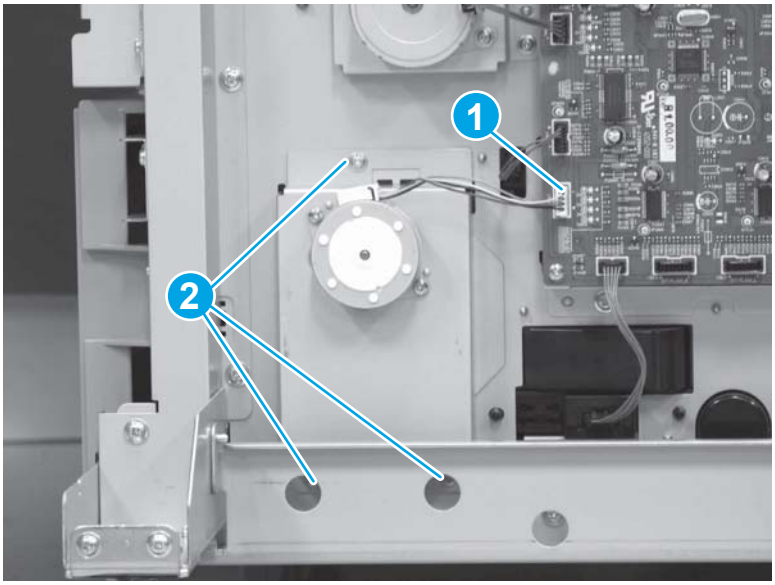
Before proceeding, remove the following assemblies:

- HCI rear cover. See HCI rear cover on page 362.

Remove the HCI right tray lifter drive assembly

1. Open the HCI right tray.
2. Disconnect one connector (callout 1), remove three screws (callout 2), and then lift the assembly up to remove it.

Figure 1-540 Remove the HCI right tray lifter drive assembly



HCI left tray lifter drive assembly

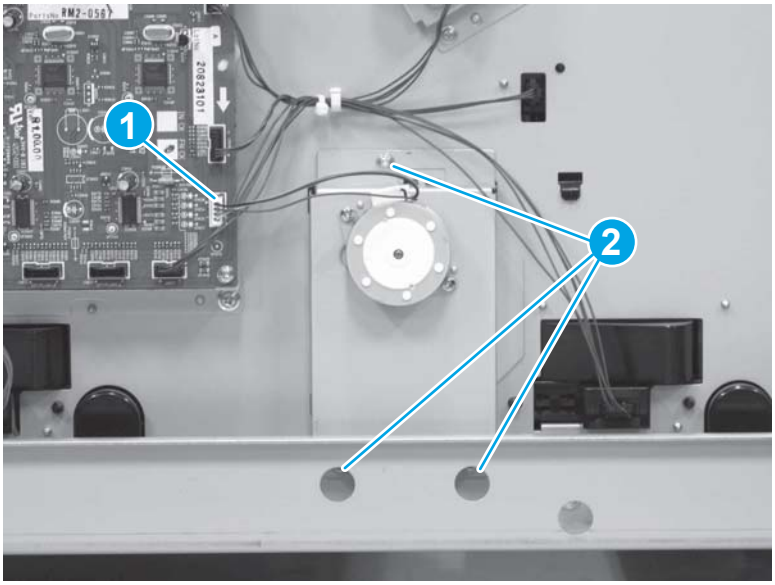
Before proceeding, remove the following assemblies:

- HCI rear cover. See HCI rear cover on page 362.

Remove the HCI left tray lifter drive assembly

1. Open the HCI left tray.
2. Disconnect one connector (callout 1), remove three screws (callout 2), and then lift the assembly up to remove it

Figure 1-541 Remove the HCI left tray lifter drive assembly



HCI right tray media-level sensor assembly

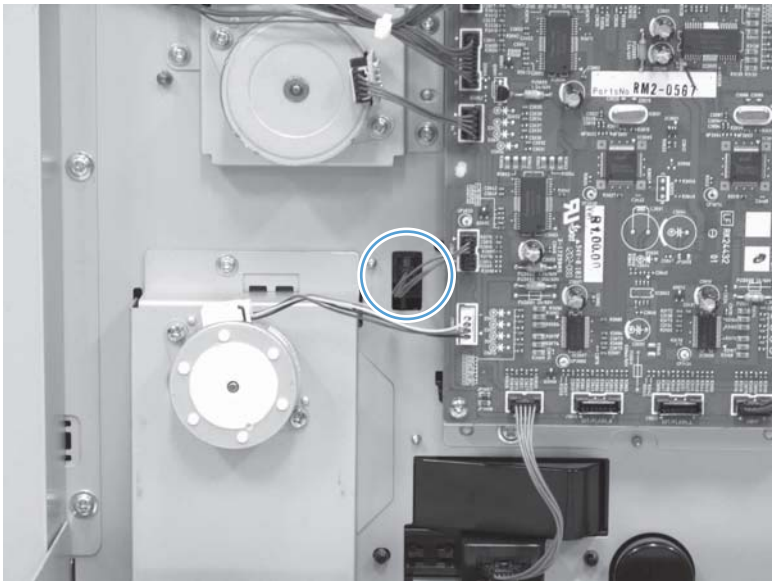
Before proceeding, remove the following assemblies:

- HCI right tray. See HCI right tray on page 360.
- HCI rear cover. See HCI rear cover on page 362.

Remove the HCI right tray media-level sensor assembly

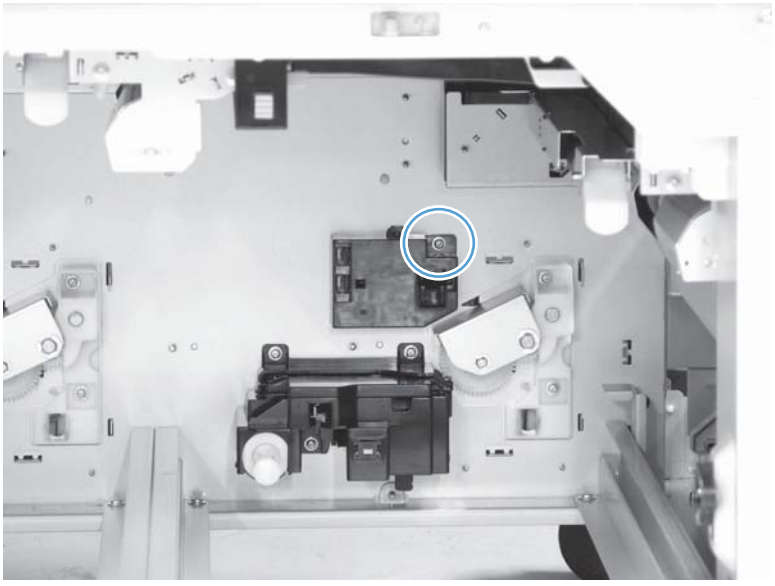
1. Disconnect one connector.

   Figure 1-542 Remove the HCI right tray media-level sensor assembly (1 of 2)

2. From inside the tray cavity, remove one screw, and then remove the assembly.

   Figure 1-543 Remove the HCI right tray media-level sensor assembly (2 of 2)

HCI left tray media-level sensor assembly

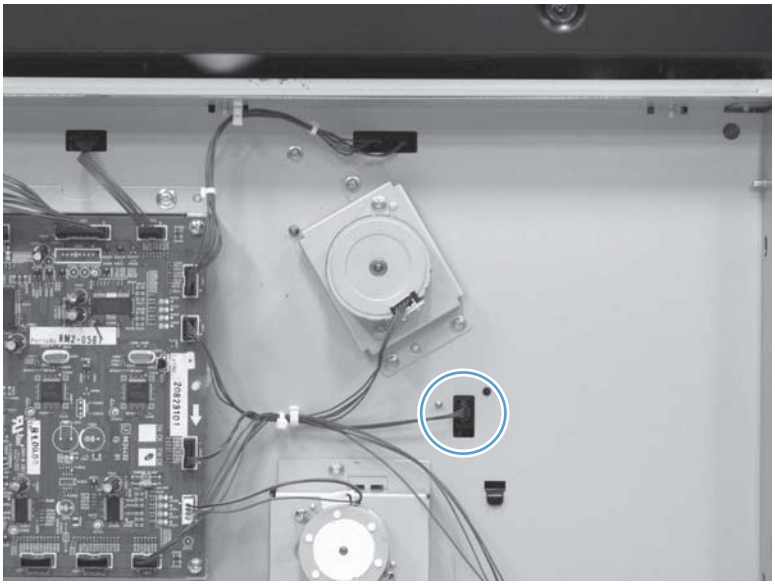
Before proceeding, remove the following assemblies:

- HCI left tray. See HCI left tray on page 361.
- HCI rear cover. See HCI rear cover on page 362.

Remove the HCI left tray media-level sensor assembly

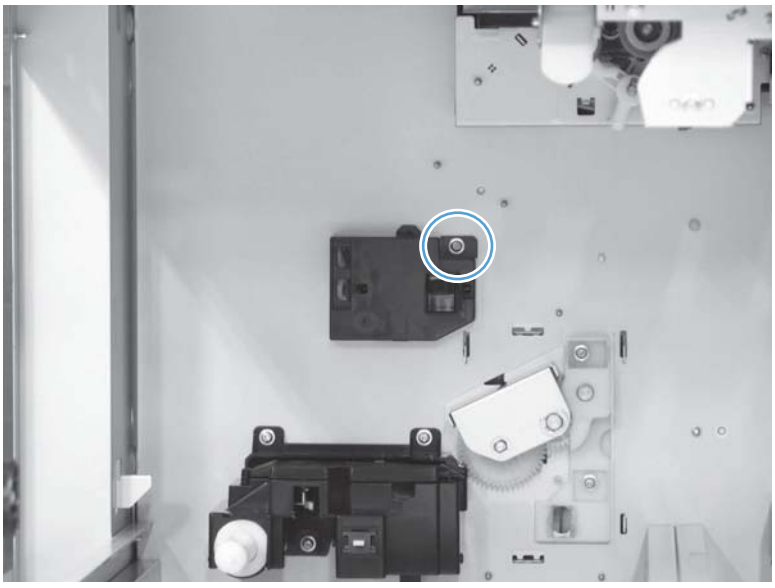
1. Disconnect one connector.

   Figure 1-544 Remove the HCI left tray media-level sensor assembly (1 of 2)

2. From inside the tray cavity, remove one screw, and then remove the assembly.

   Figure 1-545 Remove the HCI left tray media-level sensor assembly (2 of 2)

HCI right tray automatic close assembly

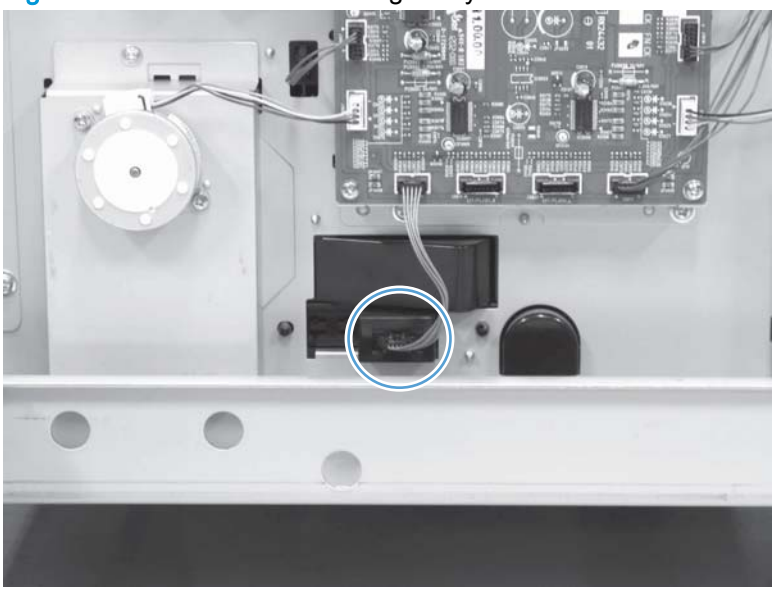
Before proceeding, remove the following assemblies:

- HCI right tray. See HCI right tray on page 360.
- HCI rear cover. See HCI rear cover on page 362.

Remove the HCI right tray automatic close assembly

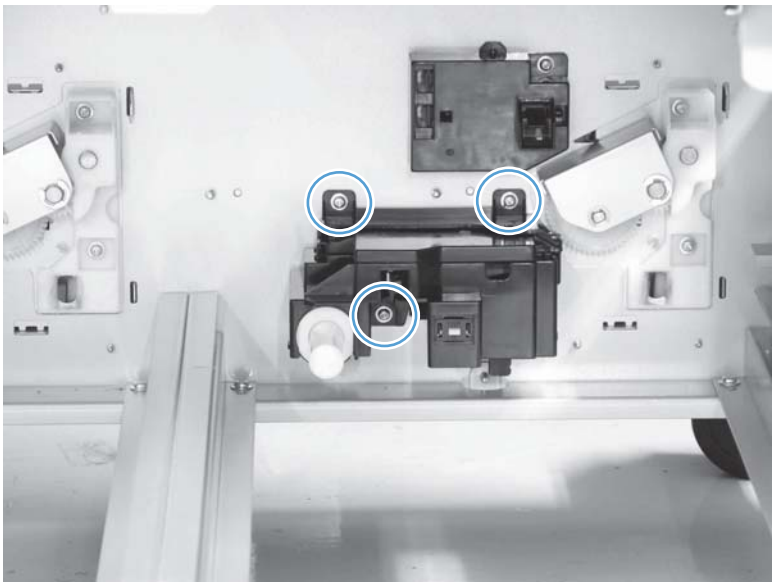
1. Disconnect one connector.

   Figure 1-546 Remove the HCI right tray automatic close assembly (1 of 2)

2. From inside the tray cavity, remove three screws, and then remove the assembly.

   Figure 1-547 Remove the HCI right tray automatic close assembly (2 of 2)

HCI left tray automatic close assembly

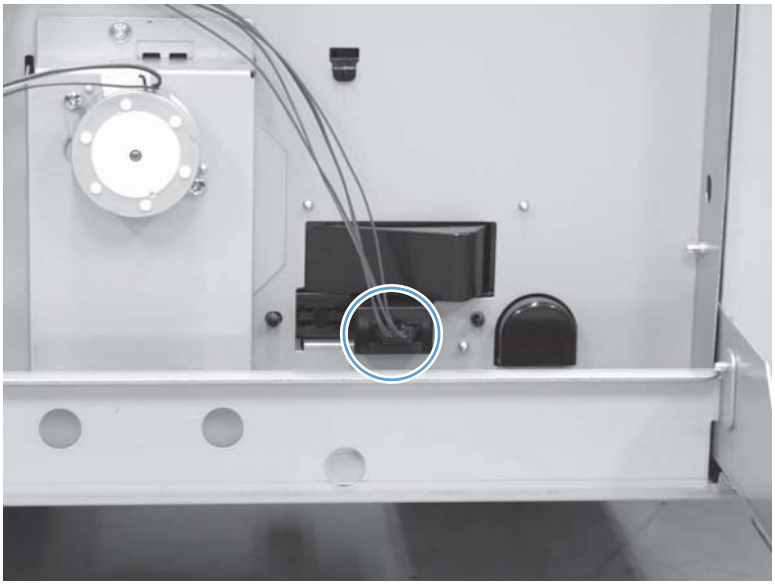
Before proceeding, remove the following assemblies:

- HCI left tray. See HCI left tray on page 361.
- HCI rear cover. See HCI rear cover on page 362.

Remove the HCI left tray automatic close assembly

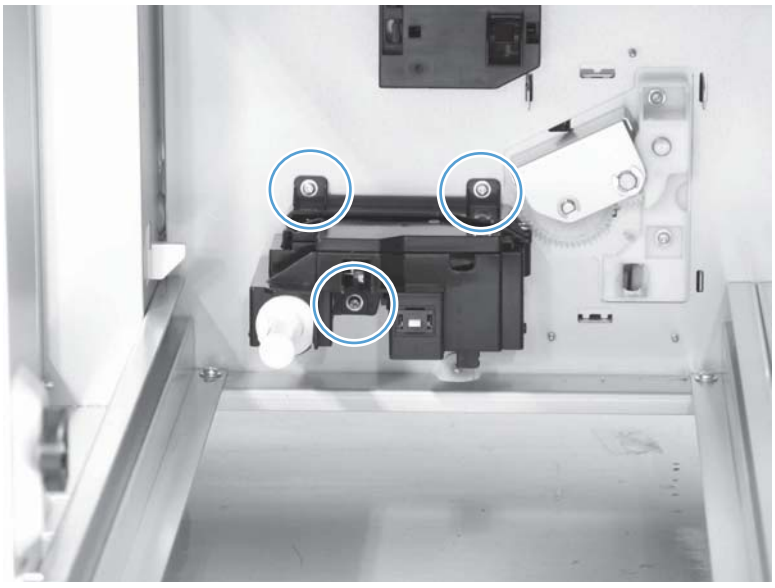
1. Disconnect one connector.

   Figure 1-548 Remove the HCI left tray automatic close assembly (1 of 2)

2. From inside the tray cavity, remove three screws, and then remove the assembly.

   Figure 1-549 Remove the HCI left tray automatic close assembly (2 of 2)

HCI right tray pickup assembly

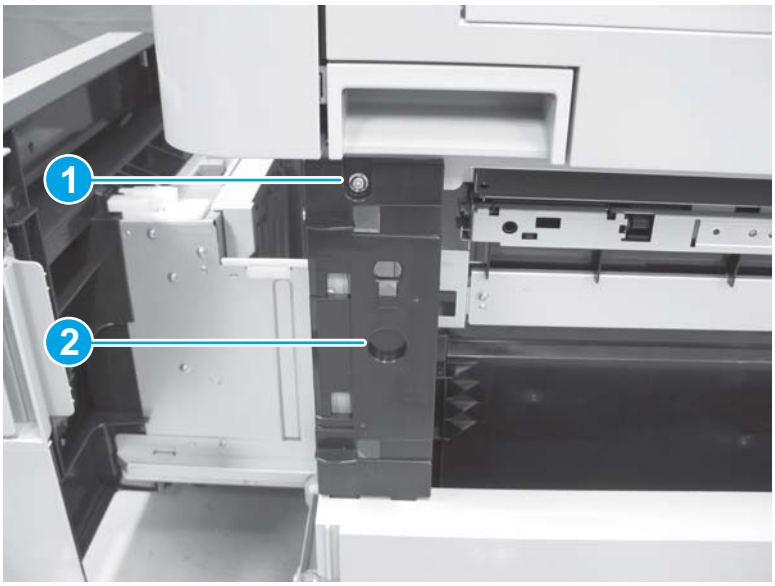
Before proceeding, remove the following assemblies:

- HCI right tray. See HCI right tray on page 360.
- HCI rear cover. See HCI rear cover on page 362.
- HCI right tray pickup drive. See HCI right tray pickup drive on page 366.

Remove the HCI right tray pickup assembly

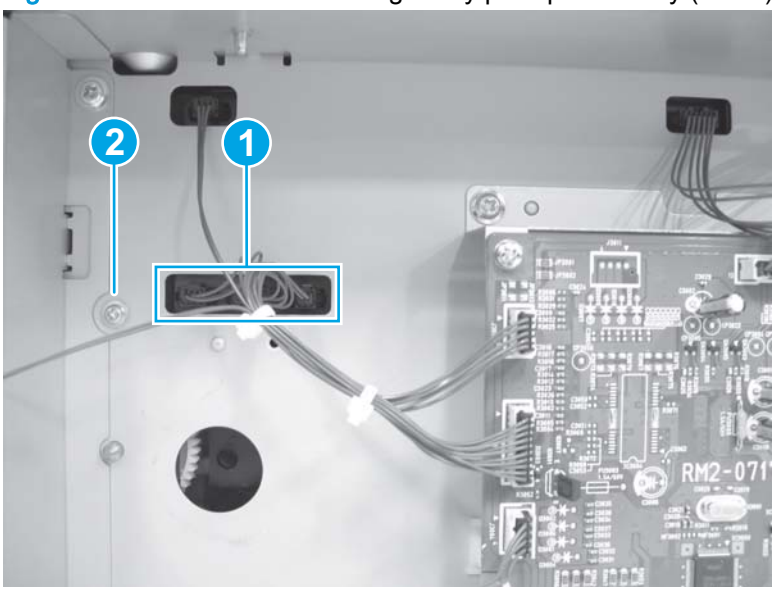
1. Remove one screw (callout 1), and then remove the lock holder (callout 2).

Figure 1-550 Remove the HCI right tray pickup assembly (1 of 3)



2. Disconnect three connectors (callout 1), and then remove one screw (callout 2).

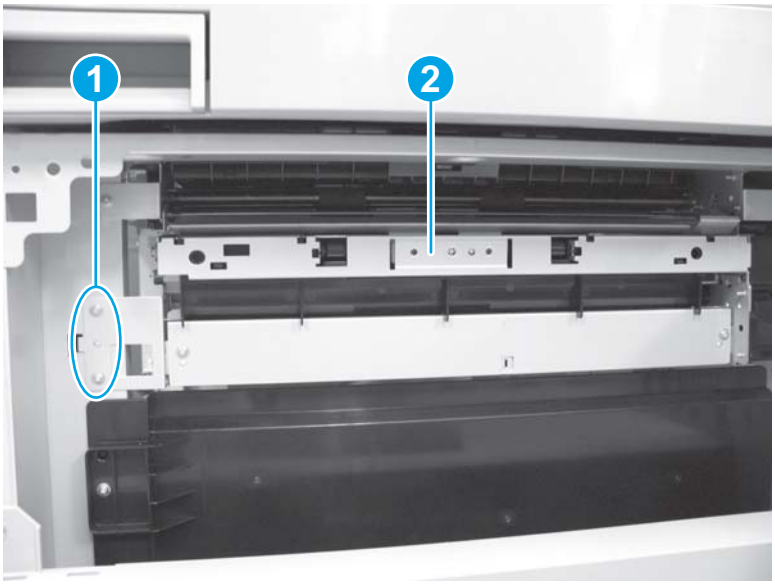
Figure 1-551 Remove the HCI right tray pickup assembly (2 of 3)



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

TIP: For easier removal, lift up on the merge assembly flap, and then remove (or replace) the pickup assembly from the right side of the HCI chassis (rather than from inside the tray cavity).

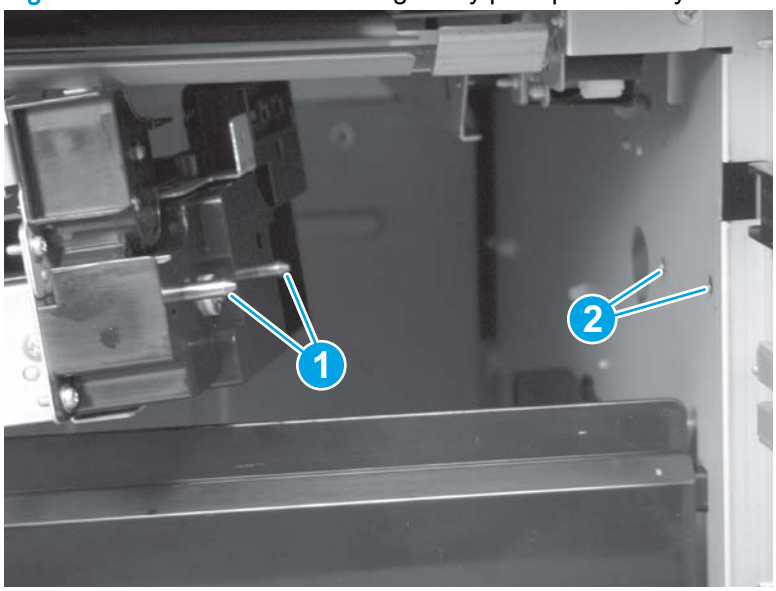
Figure 1-552 Remove the HCI right tray pickup assembly (3 of 3)



Reinstall the HCI right tray pickup assembly

Make sure that the pins (callout 1) on the HCI right tray pickup assembly are inserted in the holes (callout 2) in the product.

Figure 1-553 Reinstall the HCI right tray pickup assembly



HCI left tray pickup assembly

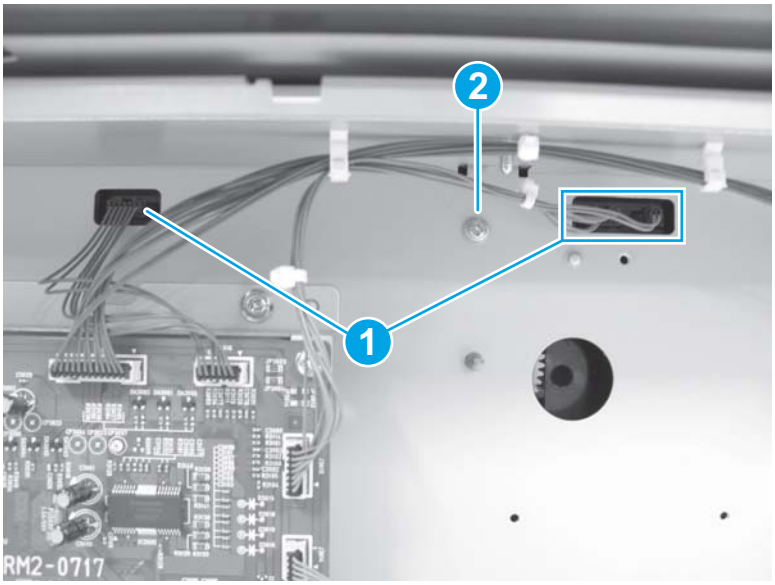
Before proceeding, remove the following assemblies:

- HCI right tray. See HCI right tray on page 360.
- HCI left tray. See HCI left tray on page 361.
- HCI rear cover. See HCI rear cover on page 362.
- HCI left tray pickup drive. See HCI left tray pickup drive on page 368.

Remove the HCI left tray pickup assembly

1. Disconnect three connectors (callout 1) and then remove one screw (callout 2).

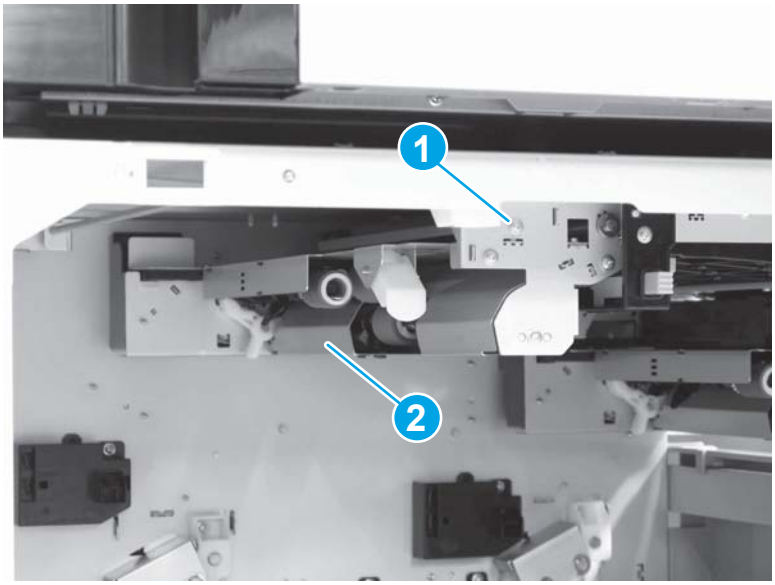
   Figure 1-554 Remove the HCI left tray pickup assembly (1 of 2)



2. From inside the tray cavity, remove one screw (callout 1), and then remove the assembly (callout 2).

TIP: Support the assembly when removing the screw (callout 1) so that it does not fall.

Figure 1-555 Remove the HCI left tray pickup assembly (2 of 2)



Reinstall the HCI left tray pickup assembly

Make sure that the pins (callout 1) on the HCI left tray pickup assembly are inserted in the holes (callout 2) in the product.

Figure 1-556 Reinstall the HCI left tray pickup assembly (1 of 2)

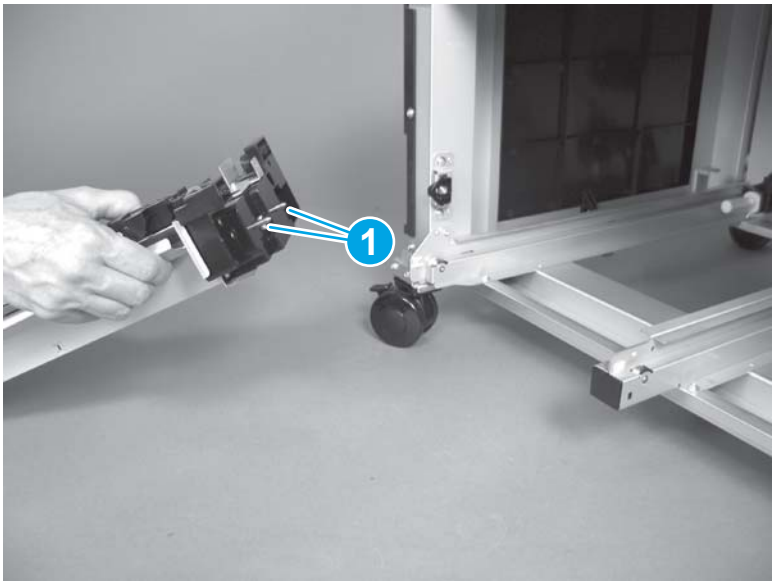
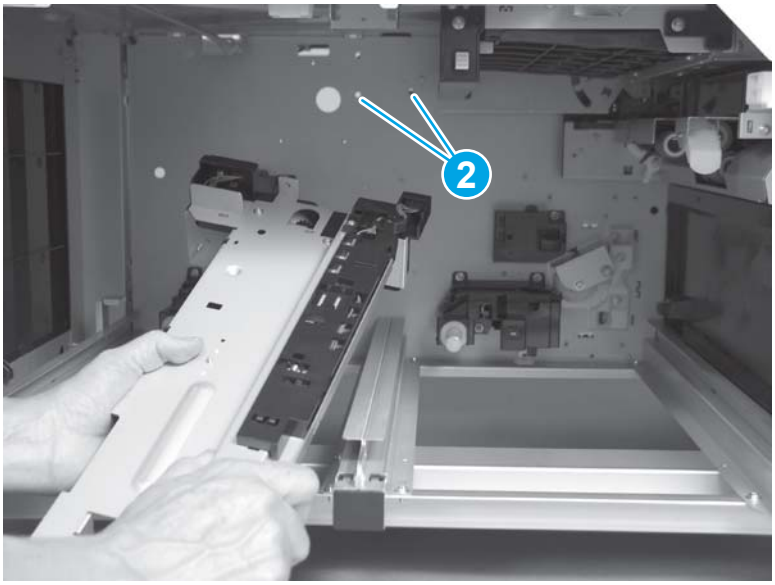


Figure 1-557 Reinstall the HCI left tray pickup assembly (2 of 2)



HCI merge assembly

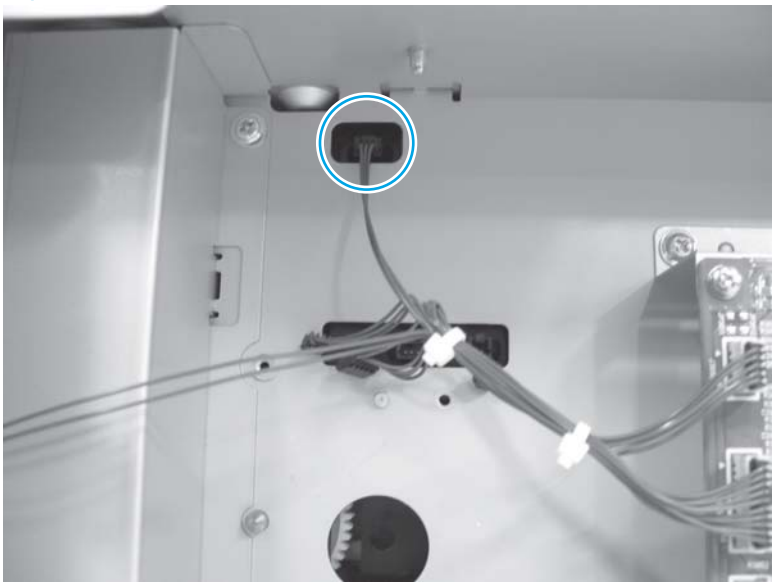
Before proceeding, remove the following assemblies:

- HCI right tray. See HCI right tray on page 360.
- HCI rear cover. See HCI rear cover on page 362.
- HCI right tray pickup drive. See HCI right tray pickup drive on page 366.
- HCI right tray pickup assembly. See HCI right tray pickup assembly on page 375.
- HCI, 1x500, and 3x500 right door assembly. See HCI, 1x500, and 3x500 right door assembly on page 428.

Remove the HCI merge assembly

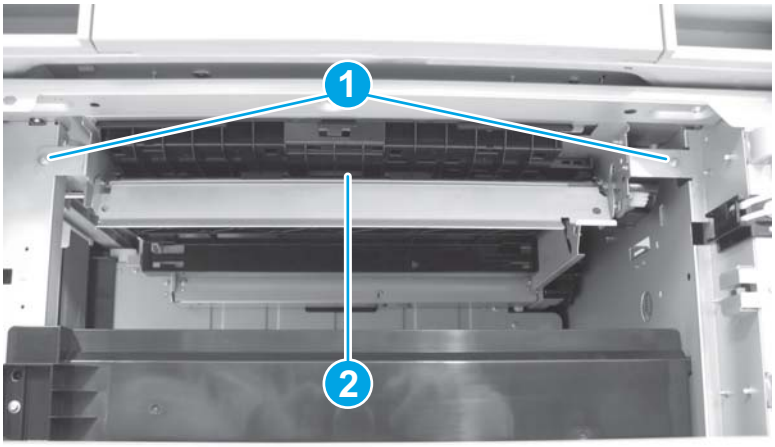
1. Disconnect one connector.

Figure 1-558 Remove the HCI merge assembly (1 of 2)



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

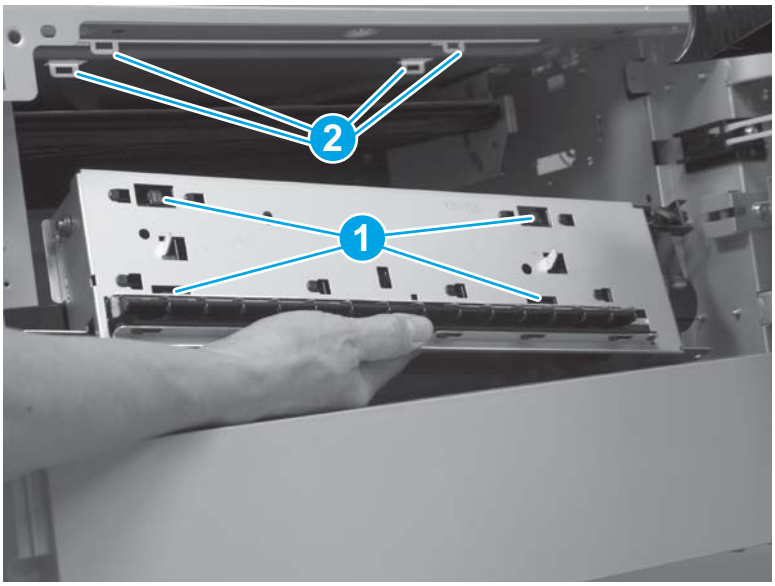
Figure 1-559 Remove the HCI merge assembly (2 of 2)



Reinstall the HCI merge assembly

Make sure that the tabs on the merge assembly (callout 1) are installed in the slots (callout 2) in the product.

Figure 1-560 Reinstall the HCI merge assembly



HCI controller PCA

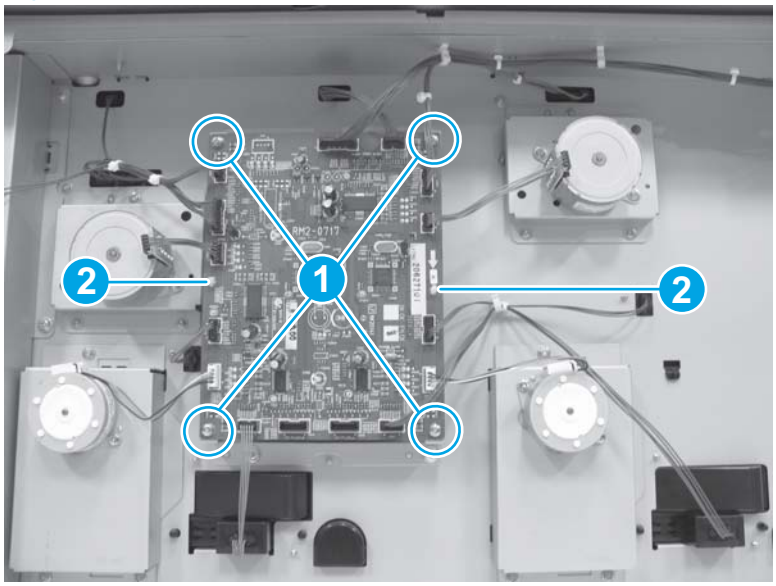
Before proceeding, remove the following assemblies:

- HCI rear cover. See HCI rear cover on page 362.

Remove the HCI controller PCA

Disconnect all of the connectors on the HCI controller PCA, remove four screws (callout 1), release two standoffs (callout 2), and then remove the PCA.

Figure 1-561 Remove the HCI controller PCA



1x500- and 3x500-sheet feeders

NOTE: Some of the procedures in this section require the product to be removed from the input accessory.

Location of major components

Figure 1-562 External covers and doors (1x500-sheet feeder)

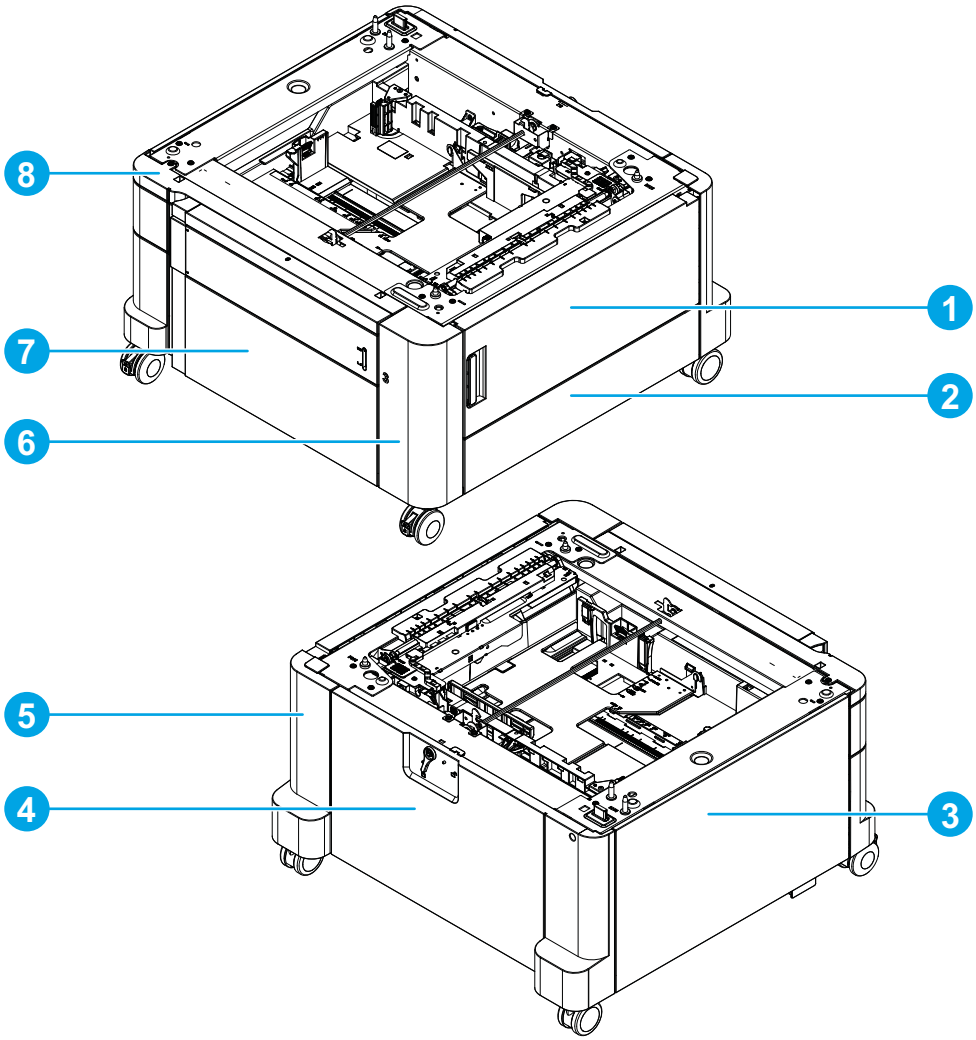


Table 1-15 External covers and doors (1x500-sheet feeder)

Item	Description	Item	Description
1	Right door	5	Right rear cover
2	Right lower cover	6	Right front cover
3	Left cover	7	Storage box door
4	Rear cover	8	Upper front cover

Figure 1-563 External covers and doors (3x500-sheet feeder)

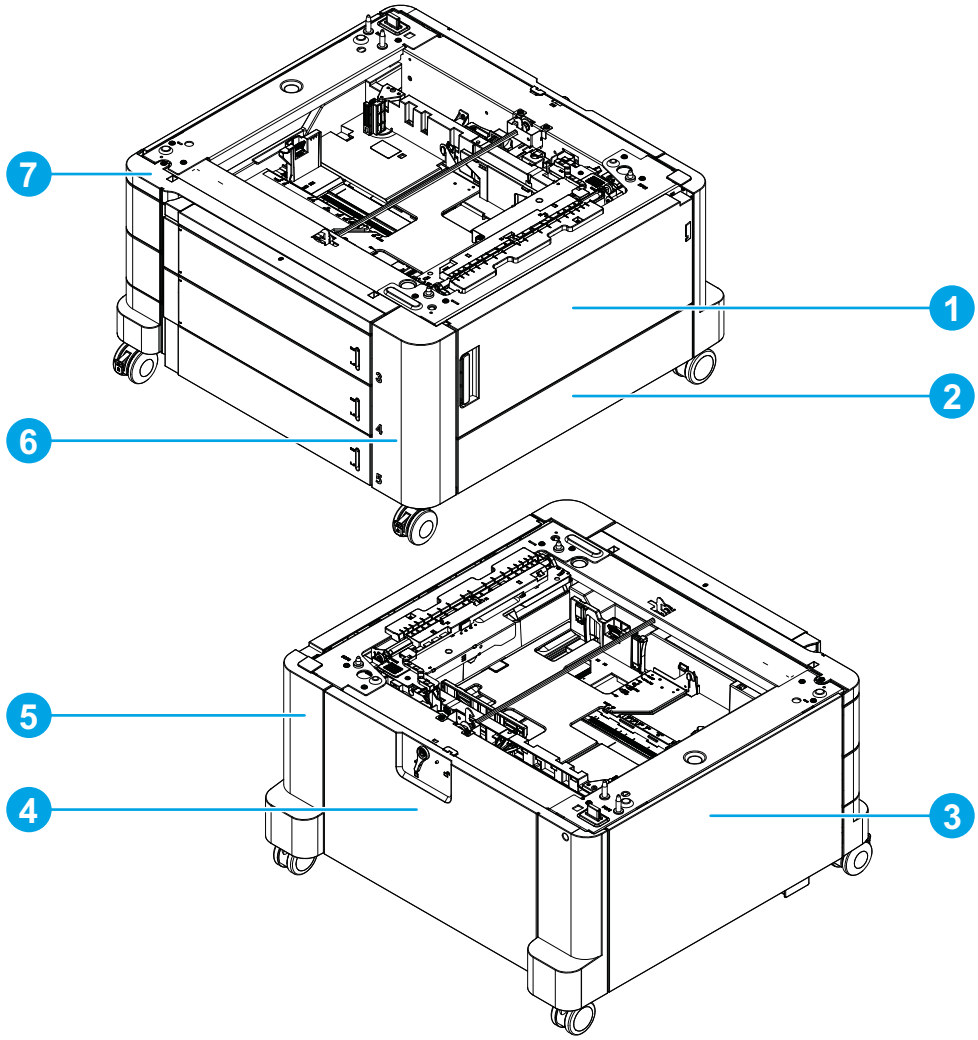


Table 1-16 External covers and doors (3x500-sheet feeder)

Item	Description	Item	Description
1	Right door	5	Right rear cover
2	Right lower cover	6	Right front cover
3	Left cover	7	Upper front cover
4	Rear cover		

Figure 1-564 Main assemblies (1x500-sheet feeder)

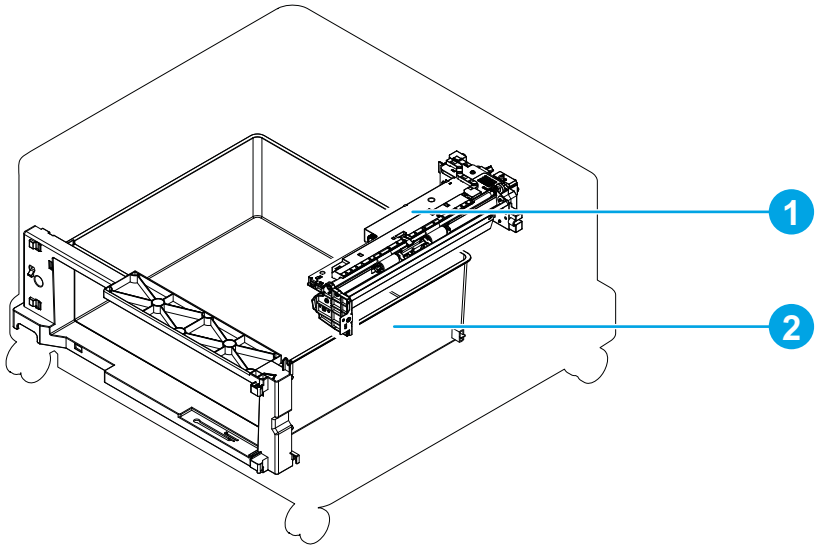


Table 1-17 Main assemblies (1x500-sheet feeder)

Item	Description	Item	Description
1	Tray 3 pickup assembly (1x500)	2	Storage box assembly

Figure 1-565 Main assemblies (3x500-sheet feeder)

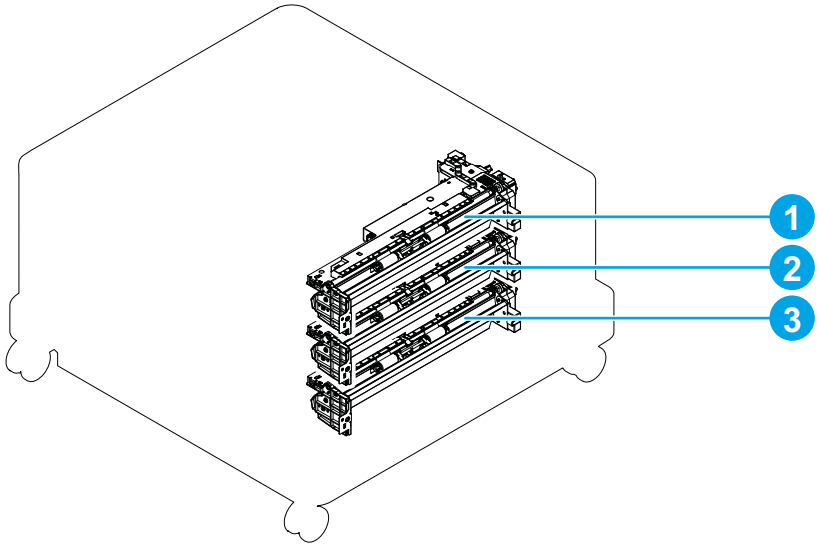


Table 1-18 Main assemblies (3x500-sheet feeder)

Item	Description	Item	Description
1	Tray 3 pickup assembly (3x500)	3	Tray 5 pickup assembly (3x500)
2	Tray 4 pickup assembly (3x500)		

Figure 1-566 Printed circuit assembly (PCA)

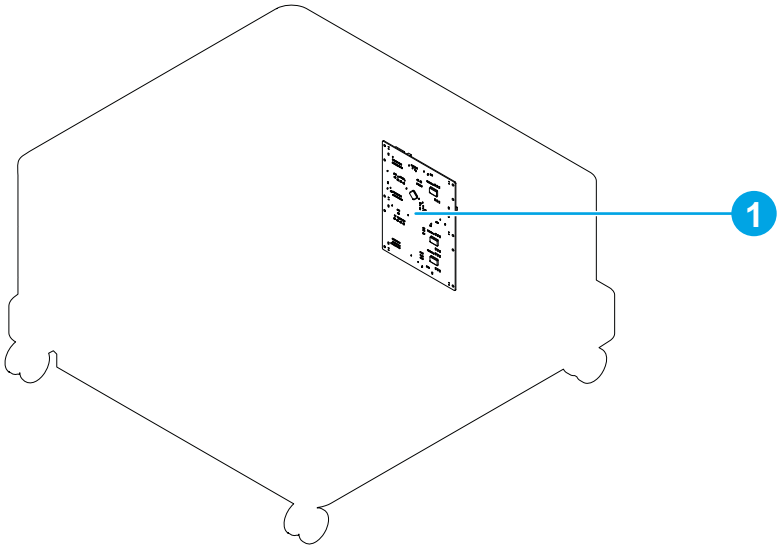


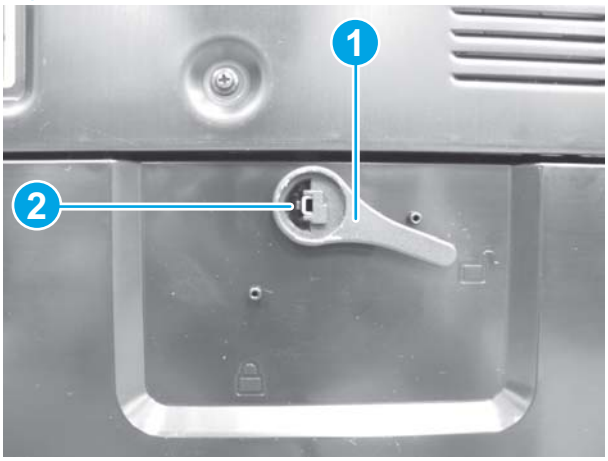
Table 1-19 Printed circuit assembly (PCA)

Item	Description	Item	Description
1	Controller PCA (1x500, 3x500)		

1x500 and 3x500 rear cover

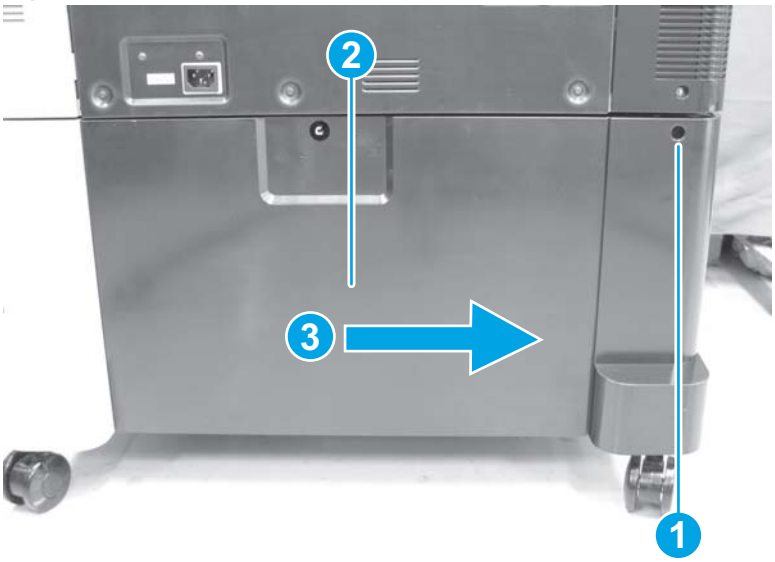
1. Move the lock lever (callout 1) to the unlocked position. Release one tab (callout 2), and then remove the lock lever.

Figure 1-567 Remove the 1x500 and 3x500 rear cover (1 of 2)



2. Remove one screw (callout 1), and then slide the rear cover (callout 2) toward the left door (callout 3) to remove it.

Figure 1-568 Remove the 1x500 and 3x500 rear cover (2 of 2)



1x500 and 3x500 right front cover

Before proceeding, remove the following assemblies:

- 1x500 Tray 3(1x500 only). See Tray 2, 1x500 Tray 3, 3x500 Tray 3, 3x500 Tray 4, and 3x500 Tray 5 on page 18.
- 3x500 Tray 3 (3x500 only). See Tray 2, 1x500 Tray 3, 3x500 Tray 3, 3x500 Tray 4, and 3x500 Tray 5 on page 18.

Remove the 1x500 and 3x500 right front cover

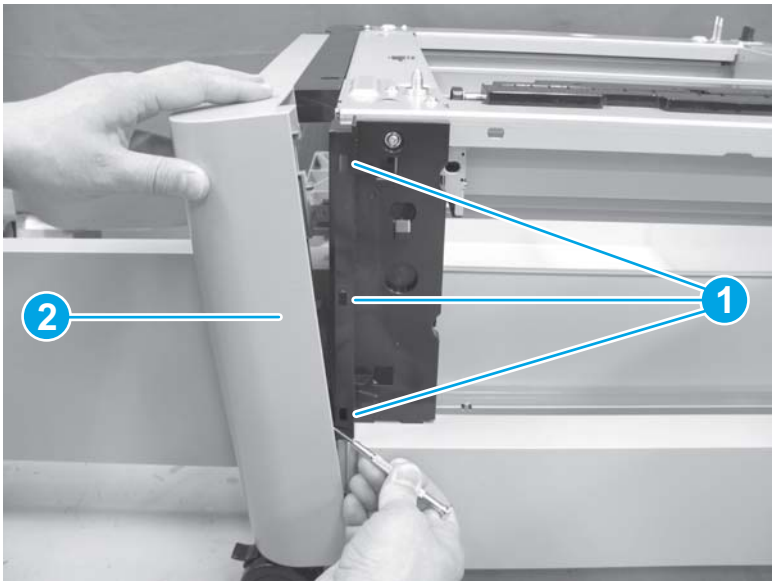
1. Remove one screw.

   Figure 1-569 Remove the 1x500 and 3x500 right front cover (1 of 2)

2. Open the 1x500 and 3x500 right door.
3. **1x500 only**: Open the 1x500 storage box door.

4. Use a small, flat-blade screwdriver to release three tabs (callout 1), and then lift the right front cover (callout 2) away from the product.

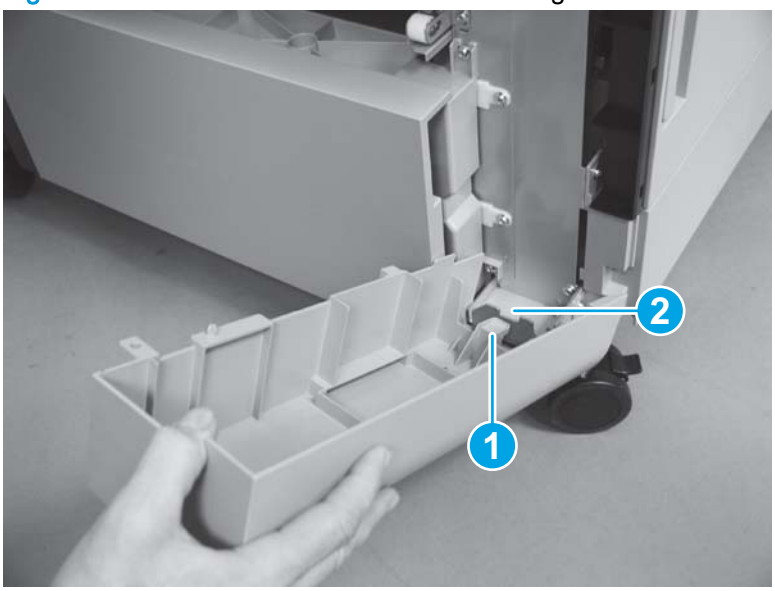
Figure 1-570 Remove the 1x500 and 3x500 right front cover (2 of 2)



Reinstall the 1x500 and 3x500 right front cover

Make sure that the tab on the cover (callout 1) is positioned over the sheet-metal slot (callout 2) in the product.

Figure 1-571 Reinstall the 1x500 and 3x500 right front cover



1x500 and 3x500 upper front face cover

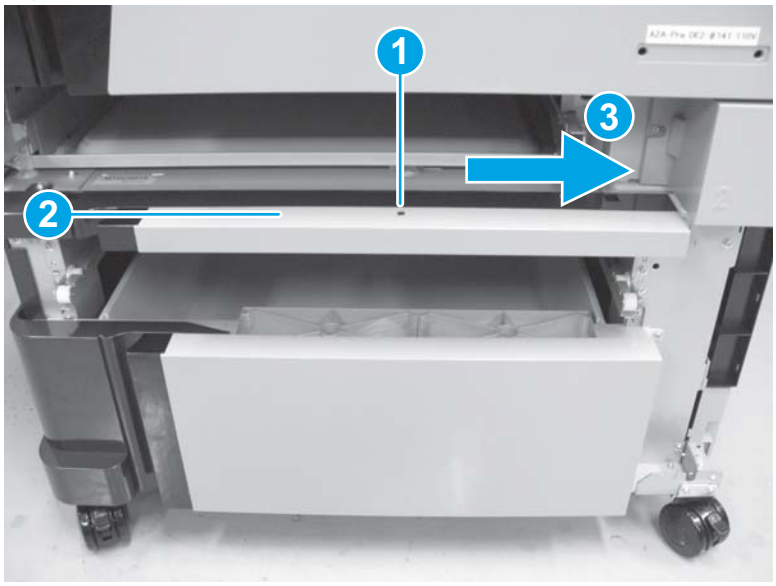
Before proceeding, remove the following assemblies:

- Tray 2. See Tray 2, 1x500 Tray 3, 3x500 Tray 3, 3x500 Tray 4, and 3x500 Tray 5 on page 18.
- 1x500 Tray 3 (1x500 only). See Tray 2, 1x500 Tray 3, 3x500 Tray 3, 3x500 Tray 4, and 3x500 Tray 5 on page 18.
- 3x500 Tray 3 (3x500 only). See Tray 2, 1x500 Tray 3, 3x500 Tray 3, 3x500 Tray 4, and 3x500 Tray 5 on page 18.
- 1x500 and 3x500 right front cover. See 1x500 and 3x500 right front cover on page 388.

Remove the 1x500 and 3x500 upper front face cover

Release one tab (callout 1), and then slide the upper front face cover (callout 2) toward the right door to remove it (callout 3).

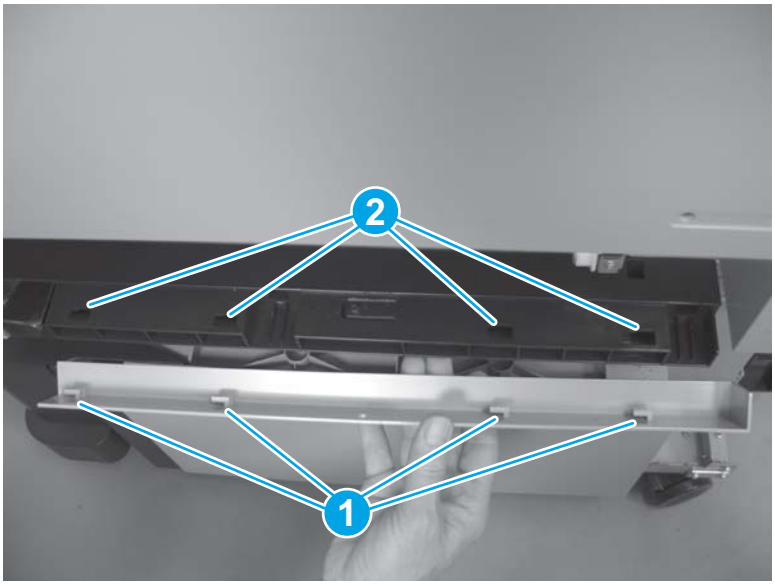
Figure 1-572 Remove the 1x500 and 3x500 upper front face cover



Reinstall the 1x500 and 3x500 upper front face cover

Make sure that the three tabs on the cover (callout 1) are positioned in the slots (callout 2) in the product.

Figure 1-573 Reinstall the 1x500 and 3x500 upper front face cover



1x500 and 3x500 upper front cover

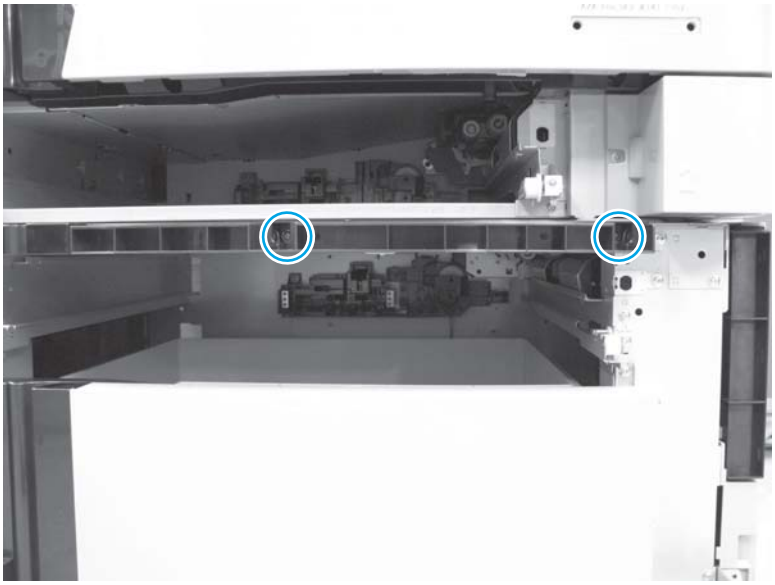
Before proceeding, remove the following assemblies:

- Tray 2. See Tray 2, 1x500 Tray 3, 3x500 Tray 3, 3x500 Tray 4, and 3x500 Tray 5 on page 18.
- 1x500 Tray 3 (1x500 only). See Tray 2, 1x500 Tray 3, 3x500 Tray 3, 3x500 Tray 4, and 3x500 Tray 5 on page 18.
- 3x500 Tray 3 (3x500 only). See Tray 2, 1x500 Tray 3, 3x500 Tray 3, 3x500 Tray 4, and 3x500 Tray 5 on page 18.
- 1x500 and 3x500 right front cover. See 1x500 and 3x500 right front cover on page 388.
- 1x500 and 3x500 upper front face cover. See 1x500 and 3x500 upper front face cover on page 390.

Remove the 1x500 and 3x500 right front cover

1. Remove two screws.

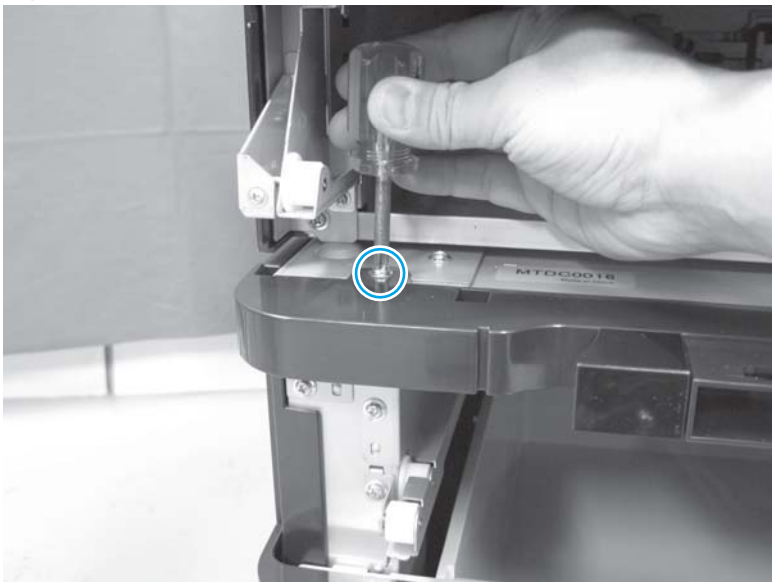
Figure 1-574 Remove the 1x500 and 3x500 upper front cover (1 of 4)



2. Remove one screw.

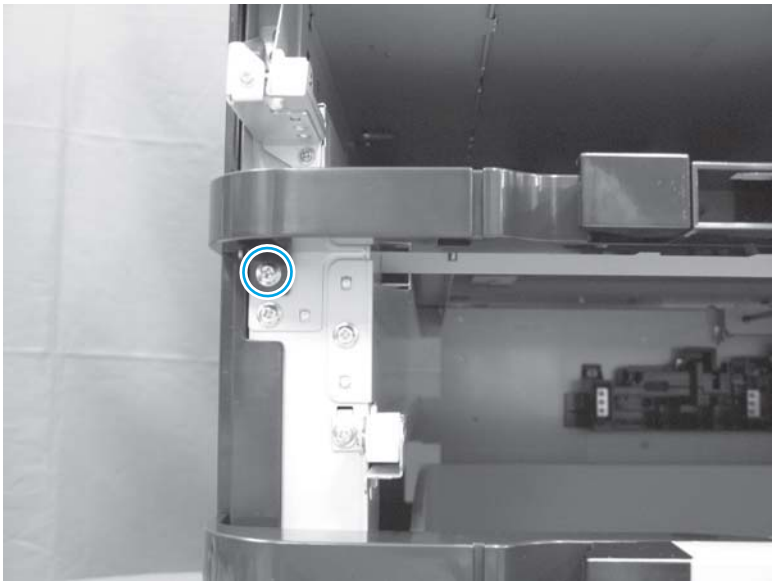
TIP: Use a Phillips-head screwdriver with a short shaft to remove this screw.

Figure 1-575 Remove the 1x500 and 3x500 upper front cover (2 of 4)



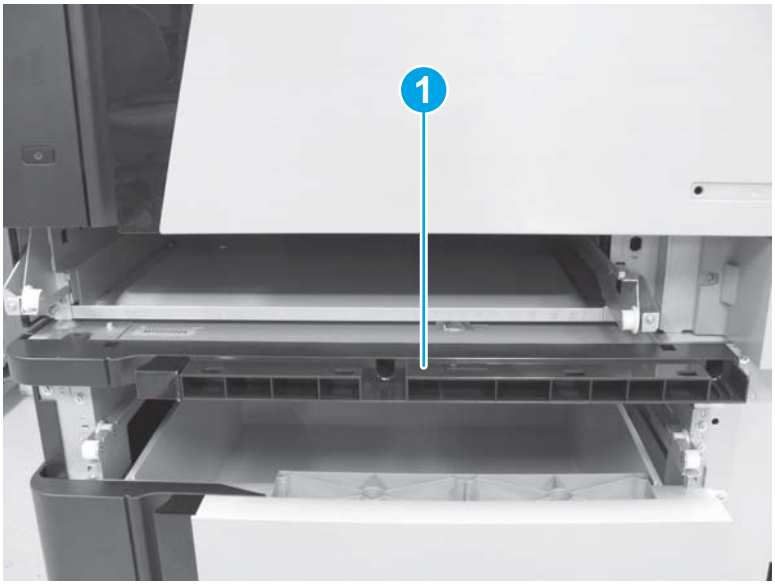
3. Remove one screw.

Figure 1-576 Remove the 1x500 and 3x500 upper front cover (3 of 4)



4. Lift up to remove the upper front cover (callout 1).

Figure 1-577 Remove the 1x500 and 3x500 upper front cover (4 of 4)



1x500 and 3x500 upper front left face cover

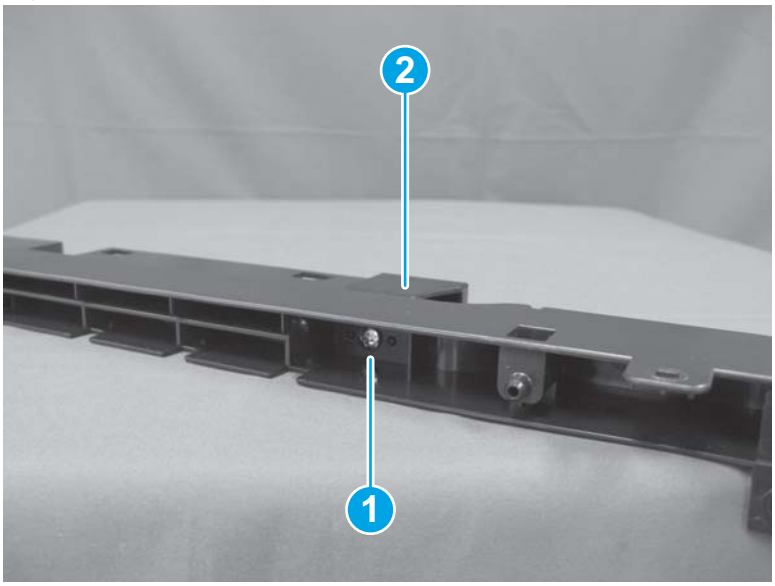
Before proceeding, remove the following assemblies:

- Tray 2. See Tray 2, 1x500 Tray 3, 3x500 Tray 3, 3x500 Tray 4, and 3x500 Tray 5 on page 18.
- 1x500 Tray 3 (1x500 only). See Tray 2, 1x500 Tray 3, 3x500 Tray 3, 3x500 Tray 4, and 3x500 Tray 5 on page 18.
- 3x500 Tray 3 (3x500 only). See Tray 2, 1x500 Tray 3, 3x500 Tray 3, 3x500 Tray 4, and 3x500 Tray 5 on page 18.
- 1x500 and 3x500 right front cover. See 1x500 and 3x500 right front cover on page 388.
- 1x500 and 3x500 upper front face cover. See 1x500 and 3x500 upper front face cover on page 390.
- 1x500 and 3x500 upper front cover. See 1x500 and 3x500 upper front cover on page 392.

Remove the 1x500 and 3x500 upper front left face cover

Remove one screw from the 1x500 and 3x500 upper front cover (callout 1), and then remove the upper front left face cover (callout 2).

Figure 1-578 Remove the 1x500 and 3x500 upper front left face cover



1x500 storage box door

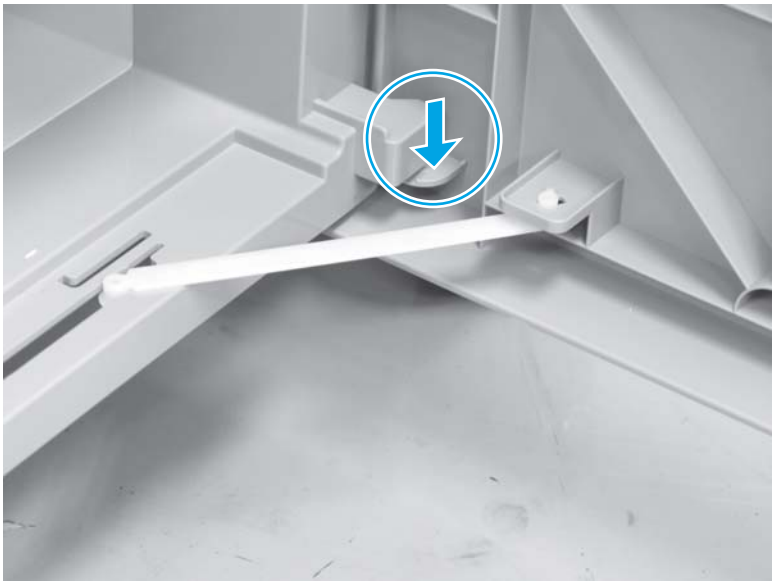
Before proceeding, remove the following assemblies:

- 1x500 Tray 3. See Tray 2, 1x500 Tray 3, 3x500 Tray 3, 3x500 Tray 4, and 3x500 Tray 5 on page 18.
- 1x500 and 3x500 right front cover. See 1x500 and 3x500 right front cover on page 388.

Remove the 1x500 storage box door

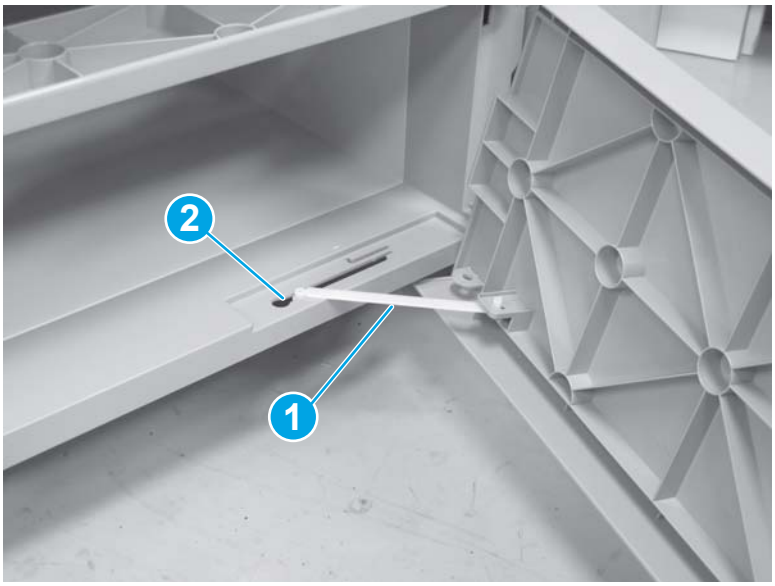
1. Press down on one tab to release the door hinge.

Figure 1-579 Remove the 1x500 storage box door (1 of 3)



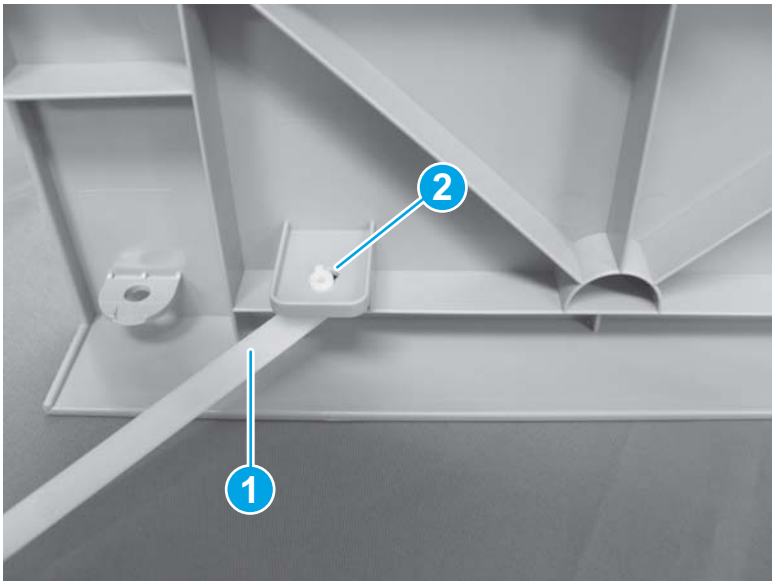
2. Release the link arm (callout 1) from the slot (callout 2).

Figure 1-580 Remove the 1x500 storage box door (2 of 3)



3. If you are replacing the storage box door, remove the link arm (callout 1) from the slot on the door (callout 2) and install it on the replacement door.

Figure 1-581 Remove the 1x500 storage box door (3 of 3)



1x500 storage box

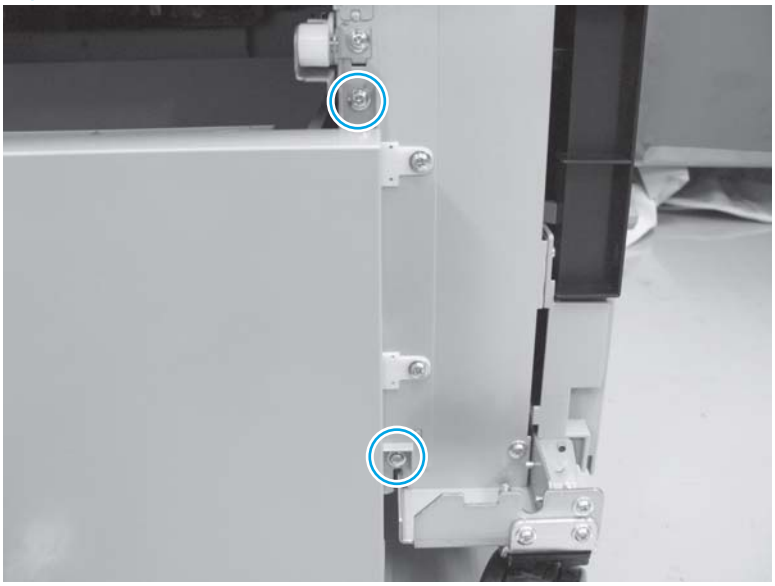
Before proceeding, remove the following assemblies:

- 1x500 Tray 3 (1x500 only). See Tray 2, 1x500 Tray 3, 3x500 Tray 3, 3x500 Tray 4, and 3x500 Tray 5 on page 18.
- 1x500 and 3x500 right front cover. See 1x500 and 3x500 right front cover on page 388.
- 1x500 storage box door (1x500 only). See 1x500 storage box door on page 396.

Remove the 1x500 storage box

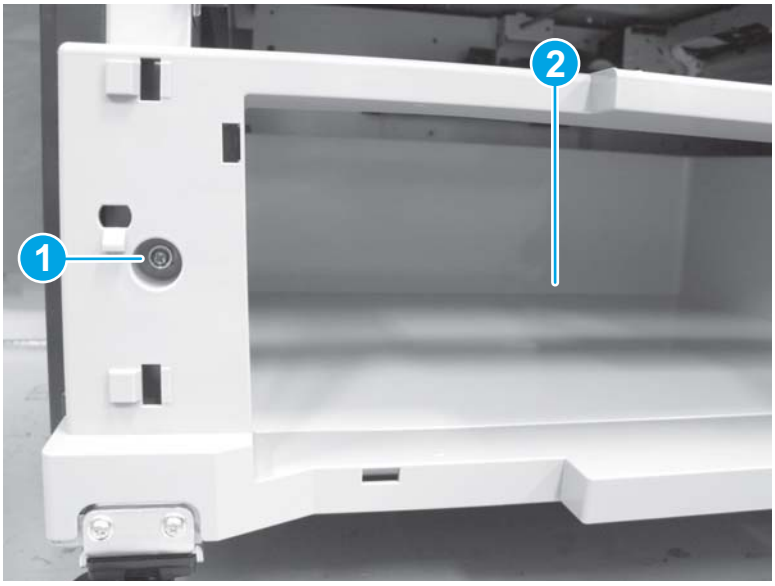
1. Remove two screws.

Figure 1-582 Remove the 1x500 storage box (1 of 2)



2. Remove one screw (callout 1) and then lift the storage box (callout 2) out of the printer to remove it.

Figure 1-583 Remove the 1x500 storage box (2 of 2)



1x500 and 3x500 right lower cover

Before proceeding, remove the following assemblies:

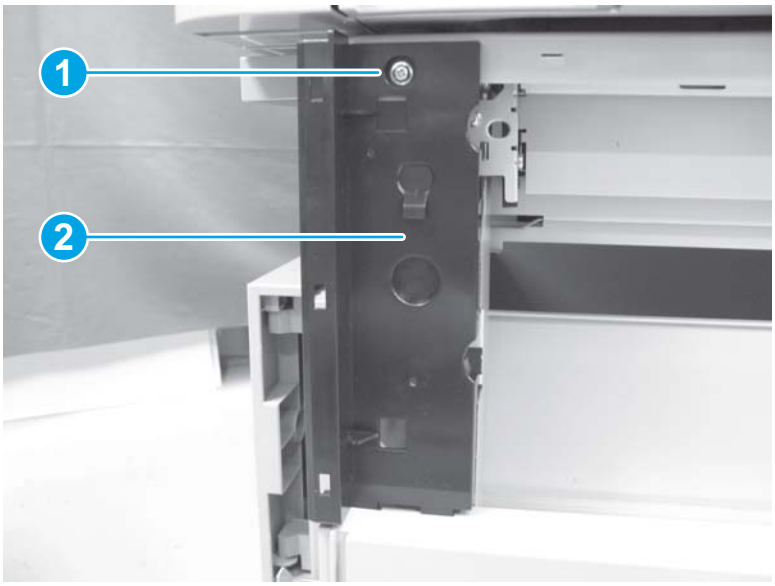
- 1x500 and 3x500 right front cover. See 1x500 and 3x500 right front cover on page 388.
- HCI, 1x500, and 3x500 right door assembly. See HCI, 1x500, and 3x500 right door assembly on page 428.
- HCI, 1x500, and 3x500 right rear cover. See HCI, 1x500, and 3x500 right rear cover on page 430.

Remove the 1x500 and 3x500 right lower cover

NOTE: The 1x500 right lower cover is shown below. The procedure is the same for the 3x500 right lower cover.

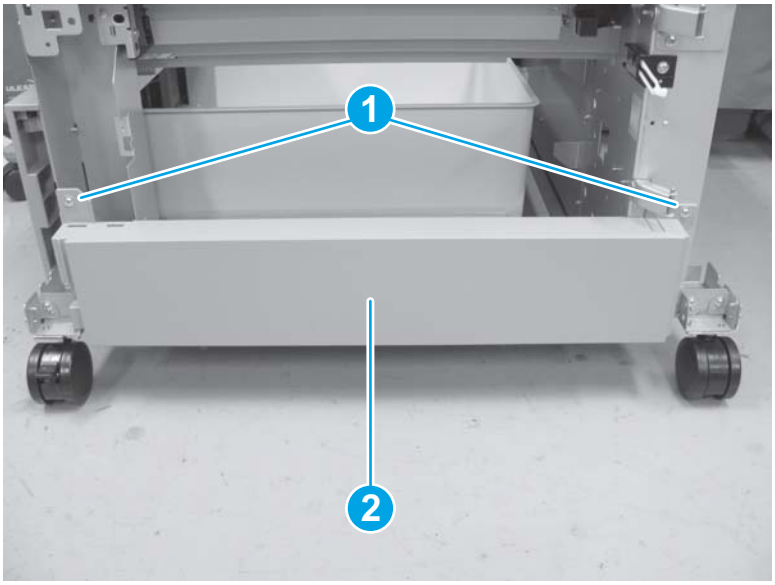
1. Remove one screw (callout 1), and then remove the lock holder (callout 2).

Figure 1-584 Remove the 1x500 and 3x500 right lower cover (1 of 2)



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

Figure 1-585 Remove the 1x500 and 3x500 right lower cover (2 of 2)



1x500 Tray 3 pickup assembly

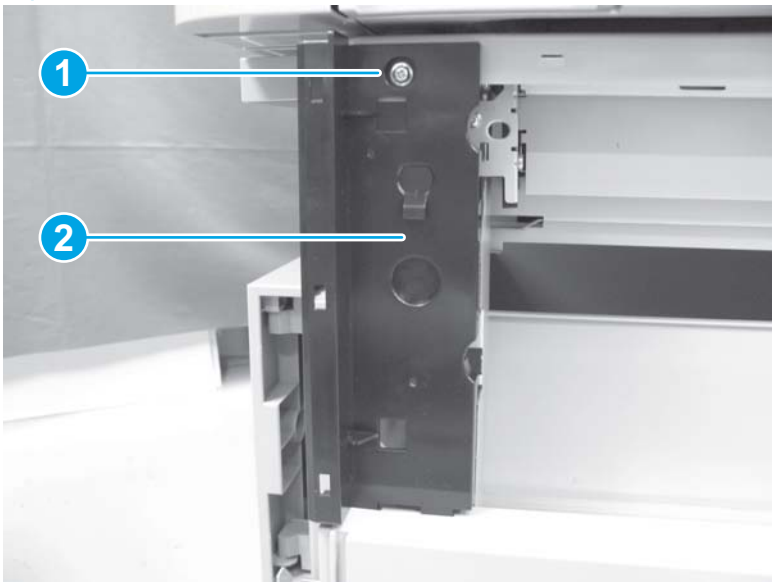
Before proceeding, remove the following assemblies:

- 1x500 Tray 3. See Tray 2, 1x500 Tray 3, 3x500 Tray 3, 3x500 Tray 4, and 3x500 Tray 5 on page 18.
- 1x500 and 3x500 rear cover. See 1x500 and 3x500 rear cover on page 387.
- 1x500 and 3x500 right front cover. See 1x500 and 3x500 right front cover on page 388.

Remove the 1x500 Tray 3 pickup assembly

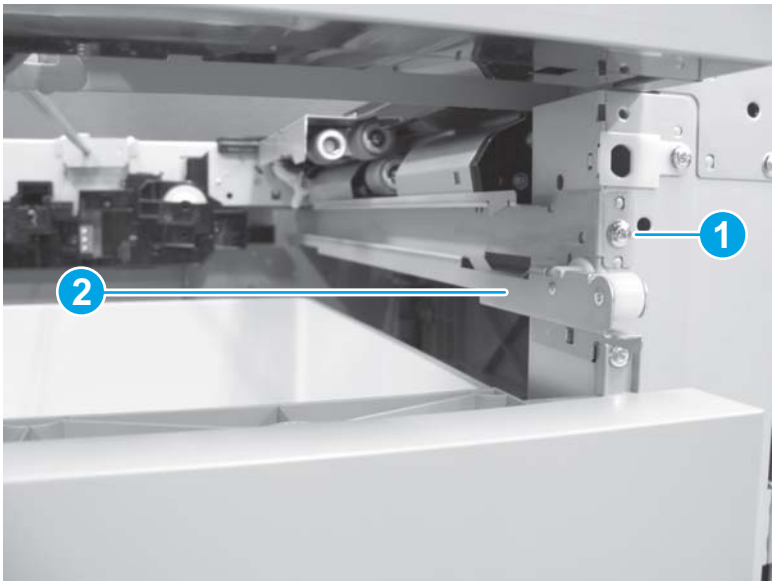
1. Remove one screw (callout 1), and then remove the lock holder (callout 2).

Figure 1-586 Remove the 1x500 Tray 3 pickup assembly (1 of 5)



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

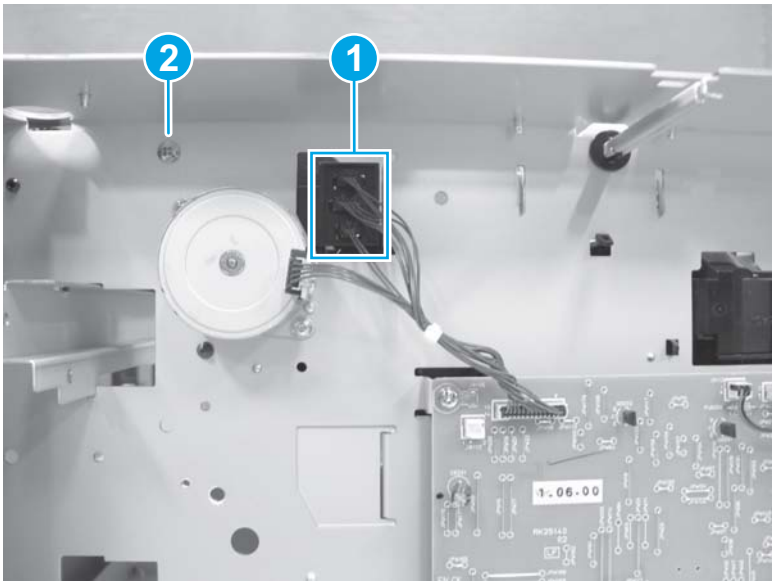
Figure 1-587 Remove the 1x500 Tray 3 pickup assembly (2 of 5)



3. Disconnect three connectors (callout 1), and then remove one screw (callout 2).

NOTE: The connectors and screw are located on the back of the product.

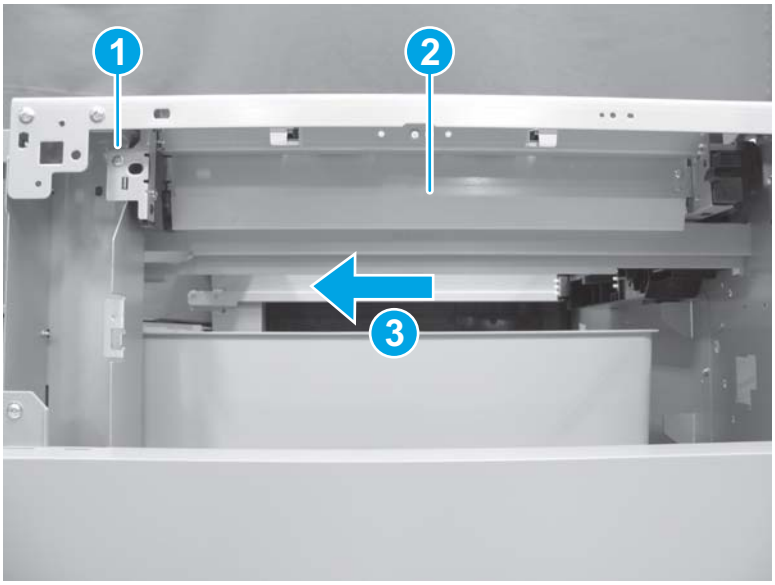
Figure 1-588 Remove the 1x500 Tray 3 pickup assembly (3 of 5)



4. Remove one screw (callout 1). Hold the tray pickup assembly (callout 2), and then slide it toward the front of the product (callout 3) to release it.

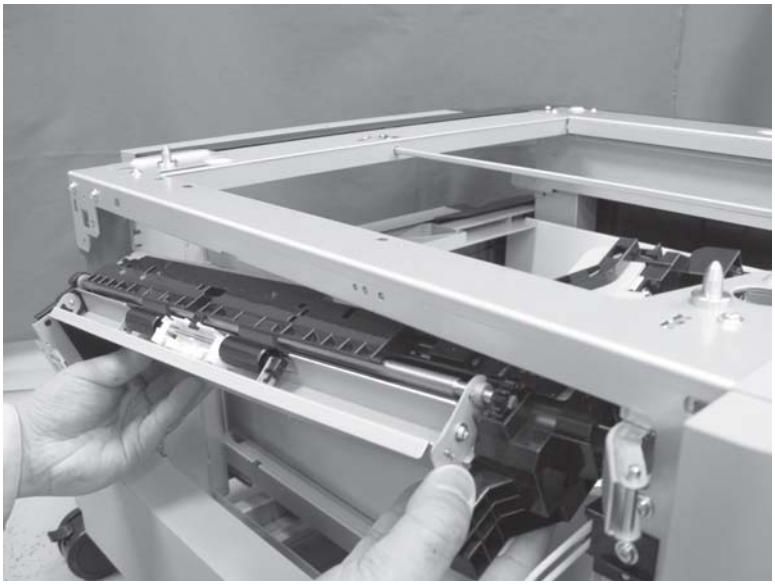
NOTE: The screw and tray pickup assembly are located on the right side of the product.

Figure 1-589 Remove the 1x500 Tray 3 pickup assembly (4 of 5)



5. Remove the tray pickup assembly.

Figure 1-590 Remove the 1x500 Tray 3 pickup assembly (5 of 5)



Reinstall the 1x500 Tray 3 pickup assembly

1. Make sure that the shaft on the tray pickup assembly (callout 1) is positioned in the hole (callout 2) in the product.

NOTE: Callout 2 shows the location of the hole from the back of the product.

Figure 1-591 Reinstall the 1x500 Tray 3 pickup assembly (1 of 4)

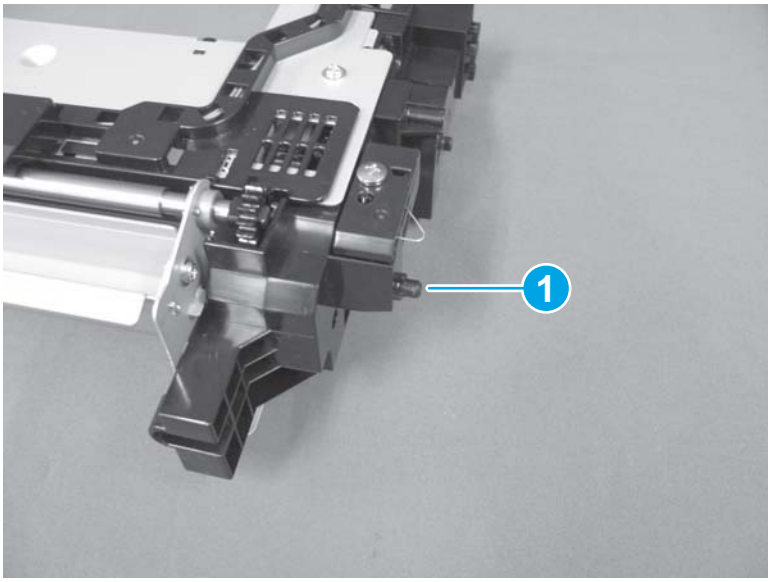
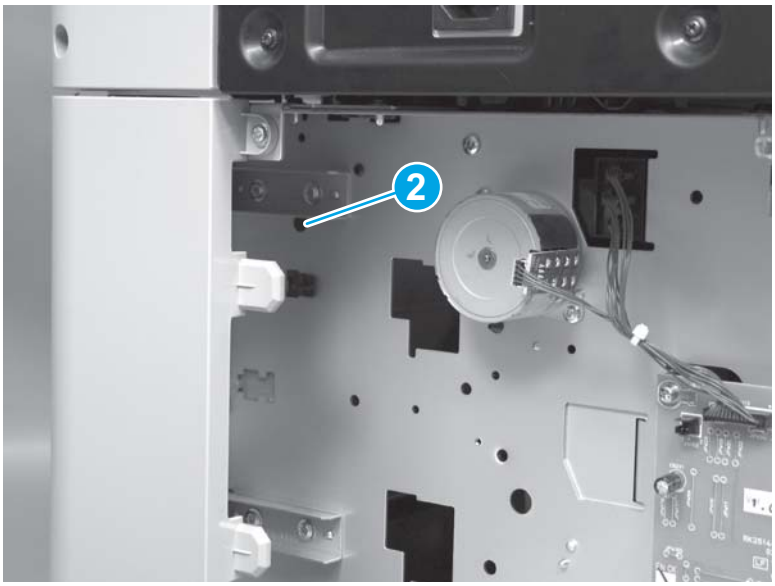
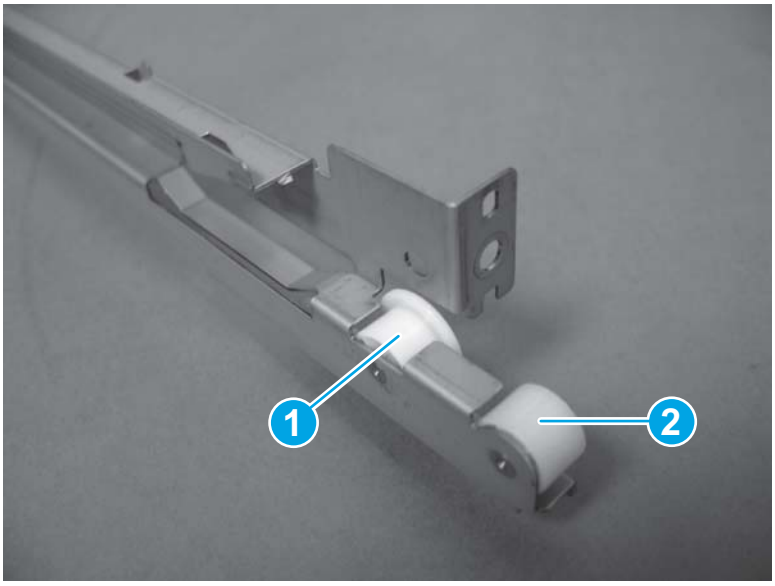


Figure 1-592 Reinstall the 1x500 Tray 3 pickup assembly (2 of 4)



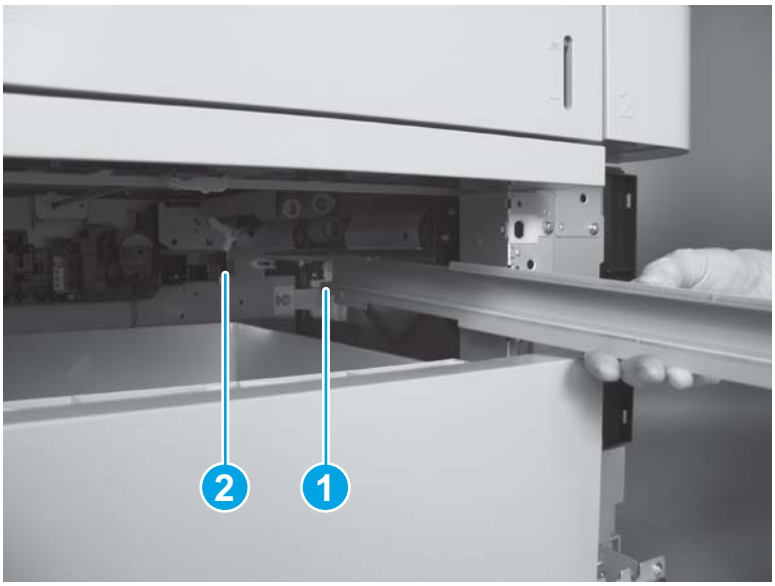
2. If the gear (callout 1) or the roller (callout 2) fall off of the tray guide rail, make sure that they are reinstalled correctly

Figure 1-593 Reinstall the 1x500 Tray 3 pickup assembly (3 of 4)



3. Install the end of the tray guide rail (callout 1) into the slot in the product (callout 2).

Figure 1-594 Reinstall the 1x500 Tray 3 pickup assembly (4 of 4)



3x500 Tray 3 pickup assembly

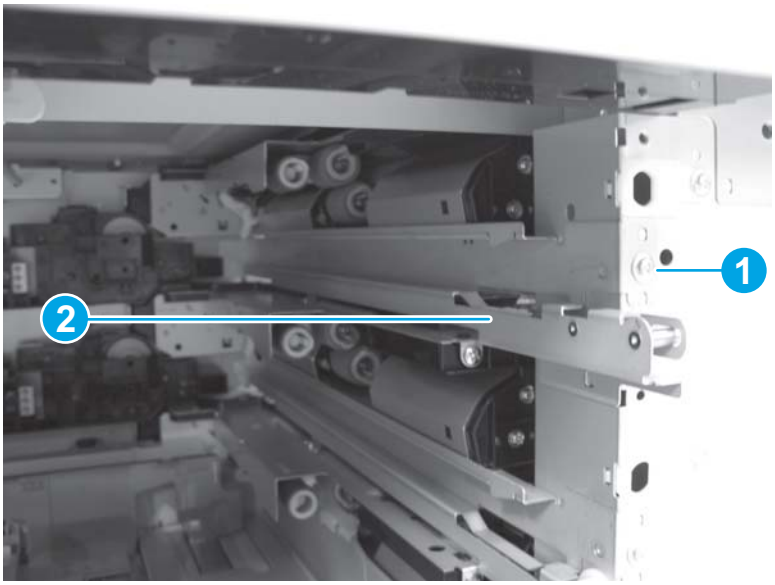
Before proceeding, remove the following assemblies:

- 3x500 Tray 3. See Tray 2, 1x500 Tray 3, 3x500 Tray 3, 3x500 Tray 4, and 3x500 Tray 5 on page 18.
- 3x500 Tray 4. See Tray 2, 1x500 Tray 3, 3x500 Tray 3, 3x500 Tray 4, and 3x500 Tray 5 on page 18.
- 1x500 and 3x500 rear cover. See 1x500 and 3x500 rear cover on page 387.
- 1x500 and 3x500 right front cover. See 1x500 and 3x500 right front cover on page 388.
- 3x500 Tray 4 pickup assembly. See 3x500 Tray 4 pickup assembly on page 412.

Remove the 3x500 Tray 3 pickup assembly

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

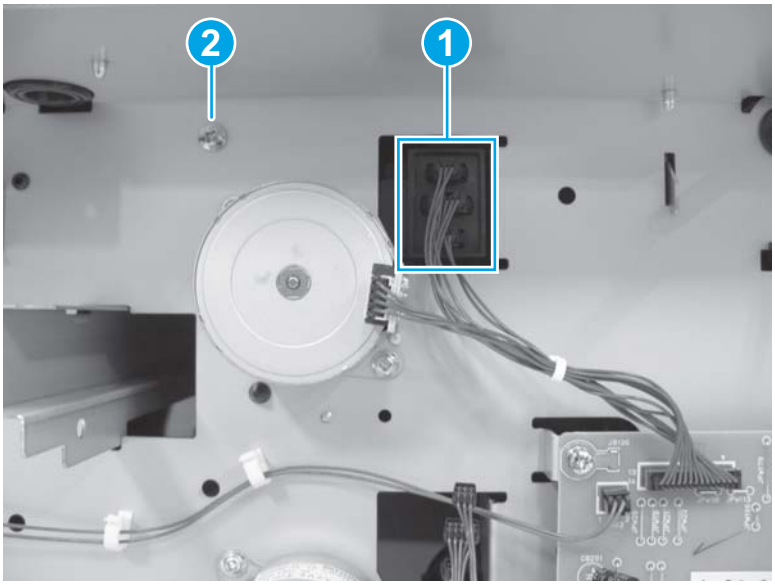
Figure 1-595 Remove the 3x500 Tray 3 pickup assembly (1 of 4)



2. Disconnect three connectors (callout 1), and then remove one screw (callout 2).

NOTE: The connectors and screw are located on the back of the product.

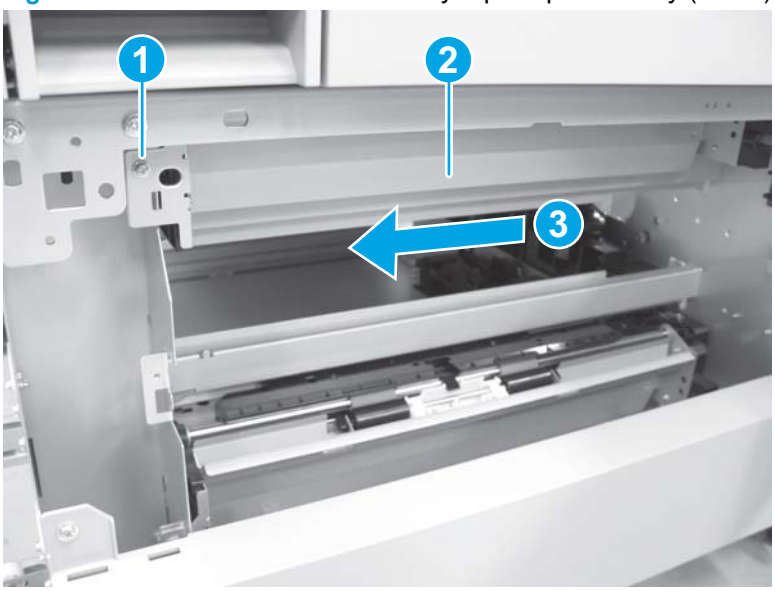
Figure 1-596 Remove the 3x500 Tray 3 pickup assembly (2 of 4)



3. Remove one screw (callout 1). Hold the tray pickup assembly (callout 2), and then slide it toward the front of the product (callout 3) to release it.

NOTE: The screw and tray pickup assembly are located on the right side of the product.

Figure 1-597 Remove the 3x500 Tray 3 pickup assembly (3 of 4)



4. Remove the tray pickup assembly.

Figure 1-598 Remove the 3x500 Tray 3 pickup assembly (4 of 4

Reinstall the 3x500 Tray 3 pickup assembly

1. Make sure that the shaft on the tray pickup assembly (callout 1) is positioned in the hole (callout 2) in the product.

NOTE: Callout 2 shows the location of the hole from the back of the product.

Figure 1-599 Reinstall the 3x500 Tray 3 pickup assembly (1 of 4)

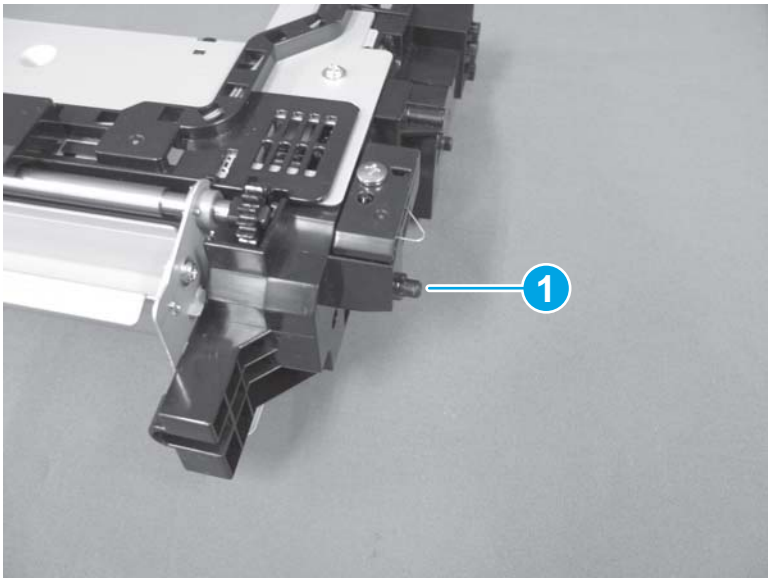
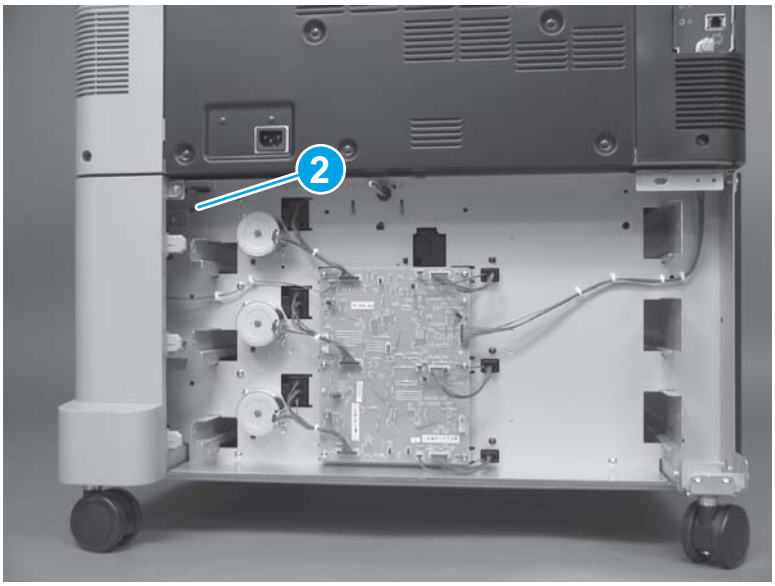
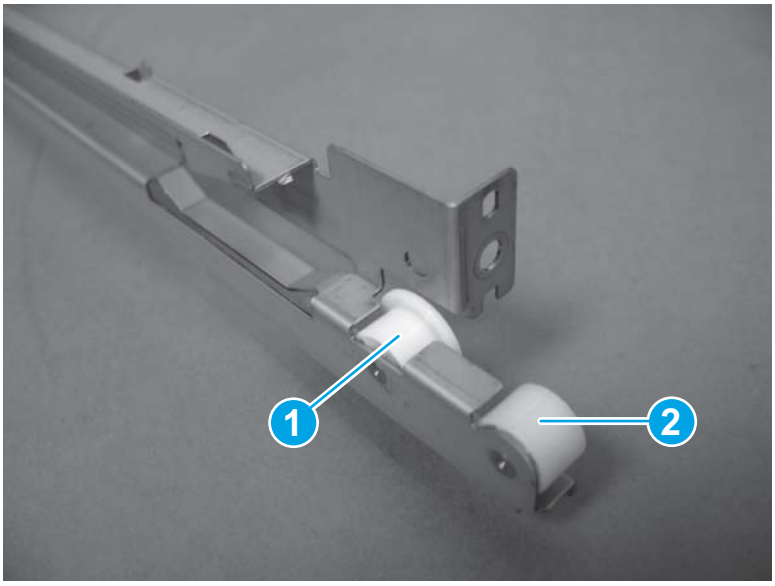


Figure 1-600 Reinstall the 3x500 Tray 3 pickup assembly (2 of 4)



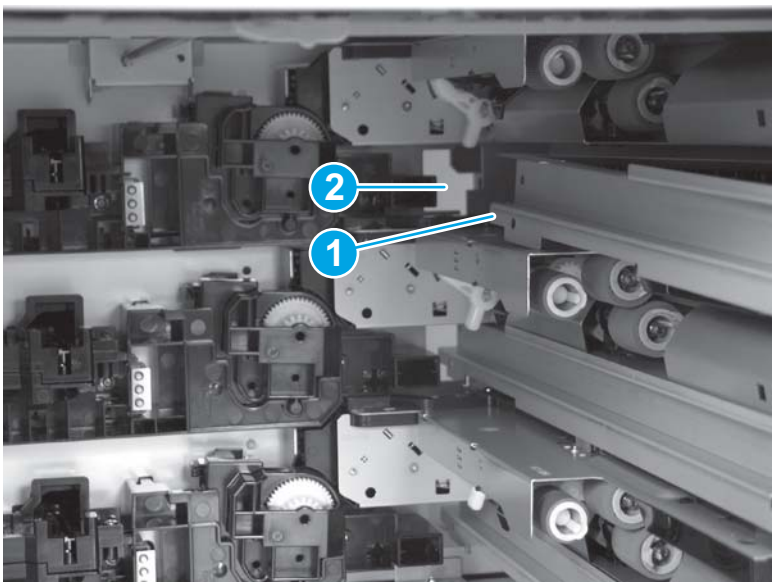
2. If the gear (callout 1) or the roller (callout 2) fall off of the tray guide rail, make sure that they are reinstalled correctly

Figure 1-601 Reinstall the 3x500 Tray 3 pickup assembly (3 of 4)



3. Install the end of the tray guide rail (callout 1) into the slot in the product (callout 2).

Figure 1-602 Reinstall the 3x500 Tray 3 pickup assembly (4 of 4)



3x500 Tray 4 pickup assembly

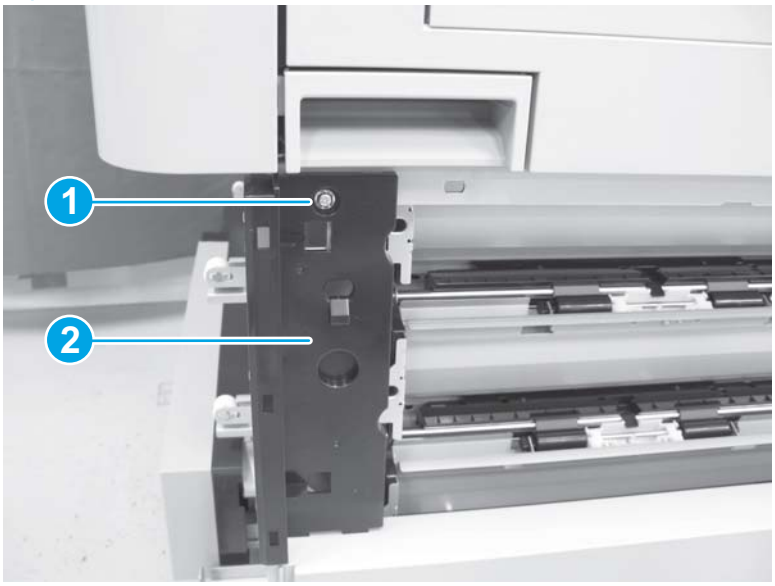
Before proceeding, remove the following assemblies:

- 3x500 Tray 4. See Tray 2, 1x500 Tray 3, 3x500 Tray 3, 3x500 Tray 4, and 3x500 Tray 5 on page 18.
- 1x500 and 3x500 rear cover. See 1x500 and 3x500 rear cover on page 387.
- 1x500 and 3x500 right front cover. See 1x500 and 3x500 right front cover on page 388.

Remove the 3x500 Tray 4 pickup assembly

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

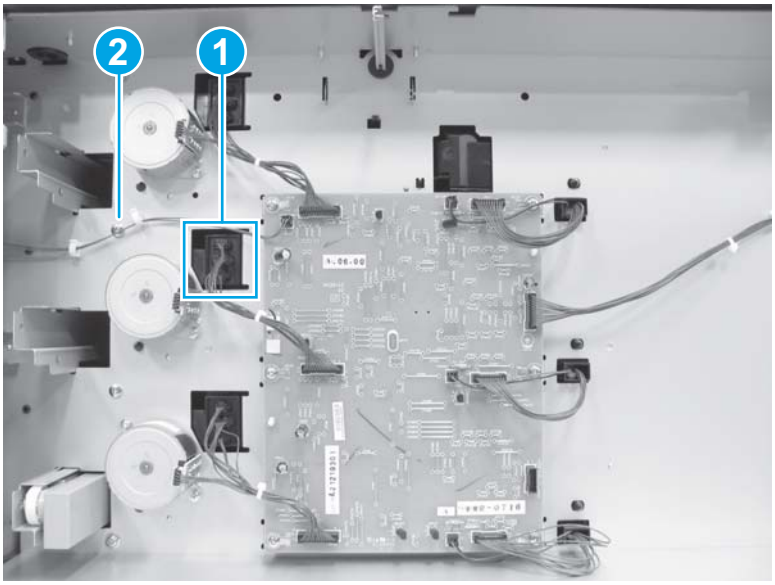
Figure 1-603 Remove the 3x500 Tray 4 pickup assembly (1 of 4)



2. Disconnect three connectors (callout 1), and then remove one screw (callout 2).

NOTE: The connectors and screw are located on the back of the product.

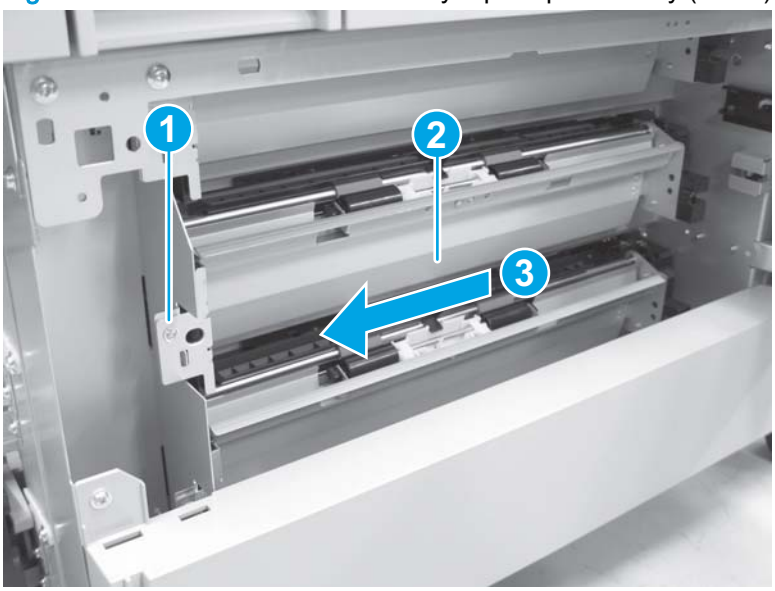
Figure 1-604 Remove the 3x500 Tray 4 pickup assembly (2 of 4)



3. Remove one screw (callout 1). Hold the tray pickup assembly (callout 2), and then slide it toward the front of the product (callout 3) to release it.

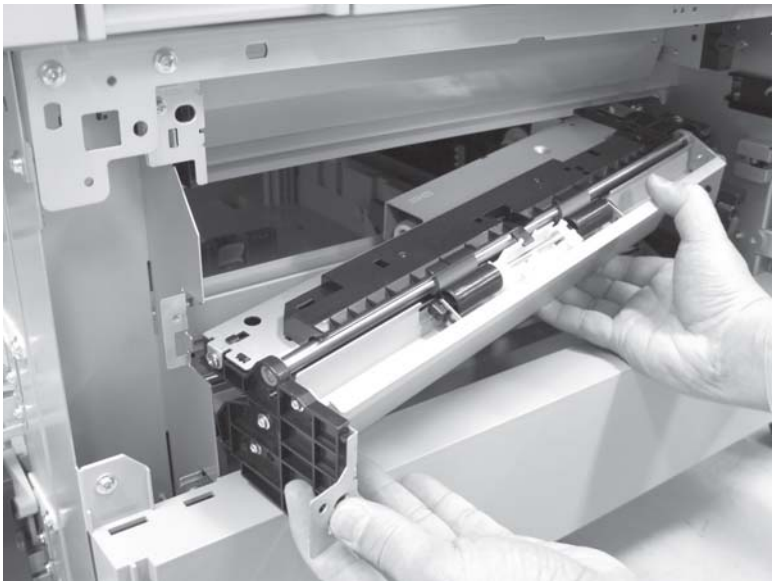
NOTE: The screw and tray pickup assembly are located on the right side of the product.

Figure 1-605 Remove the 3x500 Tray 4 pickup assembly (3 of 4)



4. Remove the tray pickup assembly.

Figure 1-606 Remove the 3x500 Tray 4 pickup assembly (4 of 4)



Reinstall the 3x500 Tray 4 pickup assembly

Make sure that the shaft on the tray pickup assembly (callout 1) is positioned in the hole (callout 2) in the product.

NOTE: Callout 2 shows the location of the hole from the back of the product.

Figure 1-607 Reinstall the 3x500 Tray 4 pickup assembly (1 of 2)

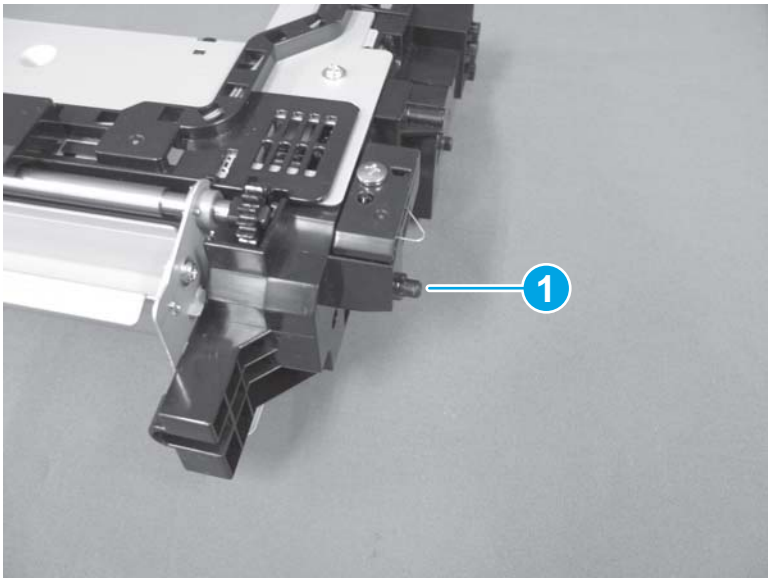
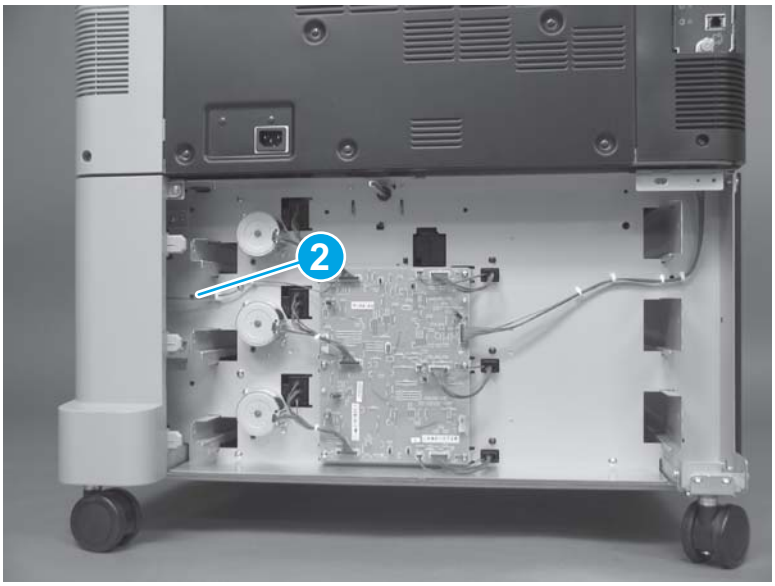


Figure 1-608 Reinstall the 3x500 Tray 4 pickup assembly (2 of 2)



3x500 Tray 5 pickup assembly

Before proceeding, remove the following assemblies:

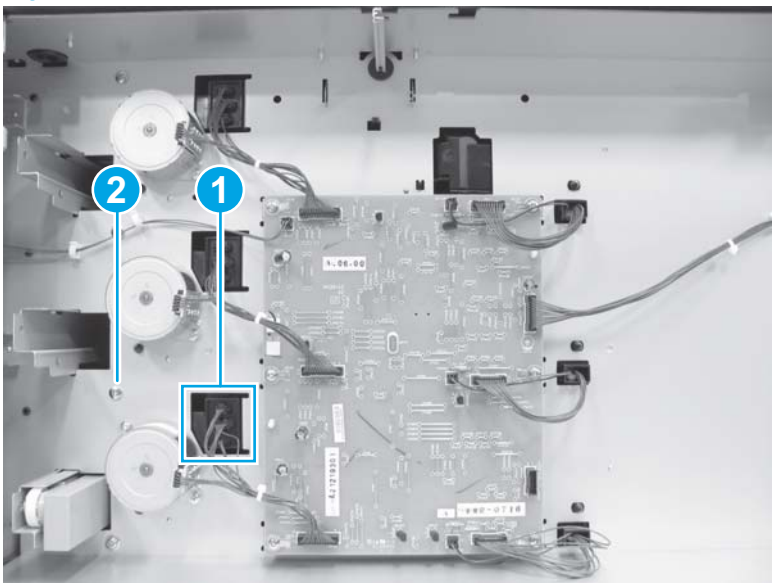
- 3x500 Tray 5. See Tray 2, 1x500 Tray 3, 3x500 Tray 3, 3x500 Tray 4, and 3x500 Tray 5 on page 18.
- 1x500 and 3x500 rear cover. See 1x500 and 3x500 rear cover on page 387.
- 1x500 and 3x500 right front cover. See 1x500 and 3x500 right front cover on page 388.
- 1x500 and 3x500 right lower cover. See 1x500 and 3x500 right lower cover on page 400.
- HCI, 1x500, and 3x500 right door assembly. See HCI, 1x500, and 3x500 right door assembly on page 428.
- HCI, 1x500, and 3x500 right rear cover. See HCI, 1x500, and 3x500 right rear cover on page 430.

Remove the 3x500 Tray 5 pickup assembly

1. Disconnect three connectors (callout 1), and then remove one screw (callout 2).

NOTE: The connectors and screw are located on the back of the product.

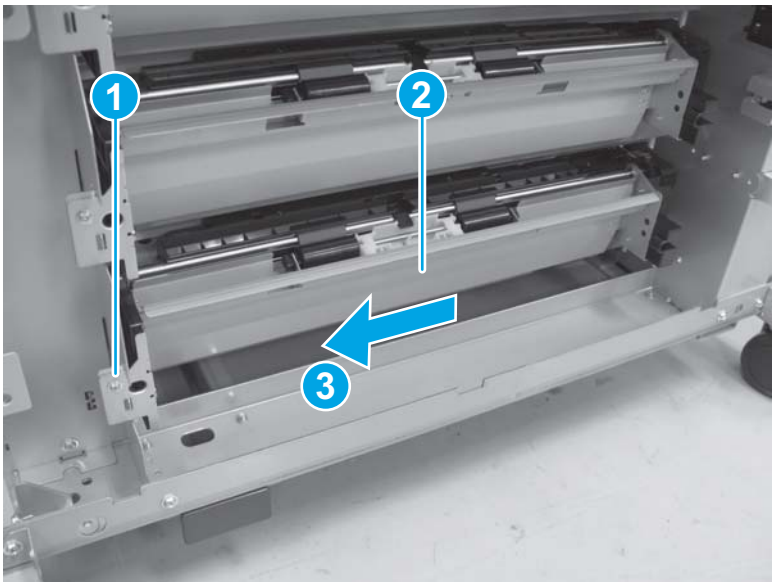
Figure 1-609 Remove the 3x500 Tray 5 pickup assembly (1 of 3)



2. Remove one screw (callout 1). Hold the tray pickup assembly (callout 2), and then slide it toward the front of the product (callout 3) to release it.

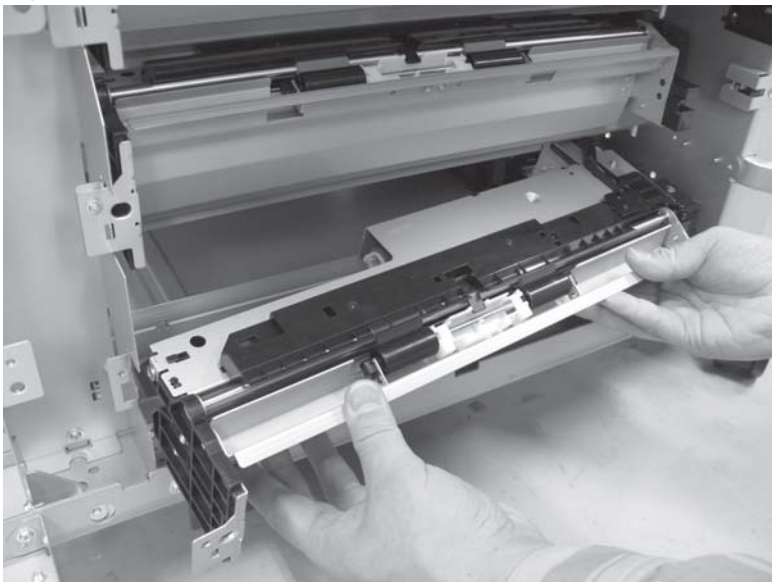
NOTE: The screw and tray pickup assembly are located on the right side of the product.

Figure 1-610 Remove the 3x500 Tray 5 pickup assembly (2 of 3)



3. Remove the tray pickup assembly.

Figure 1-611 Remove the 3x500 Tray 5 pickup assembly (3 of 3)



Reinstall the 3x500 Tray 5 pickup assembly

Make sure that the shaft on the tray pickup assembly (callout 1) is positioned in the hole (callout 2) in the product.

NOTE: Callout 2 shows the location of the hole from the back of the product.

Figure 1-612 Reinstall the 3x500 Tray 5 pickup assembly (1 of 2)

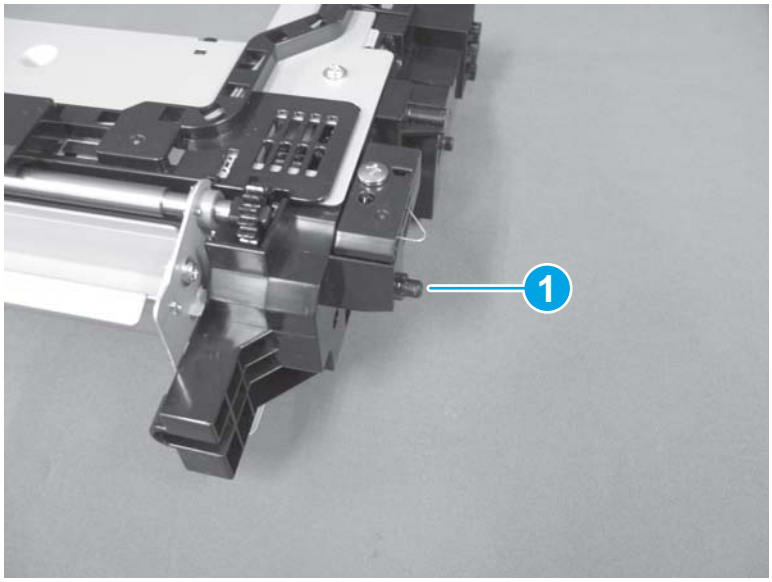
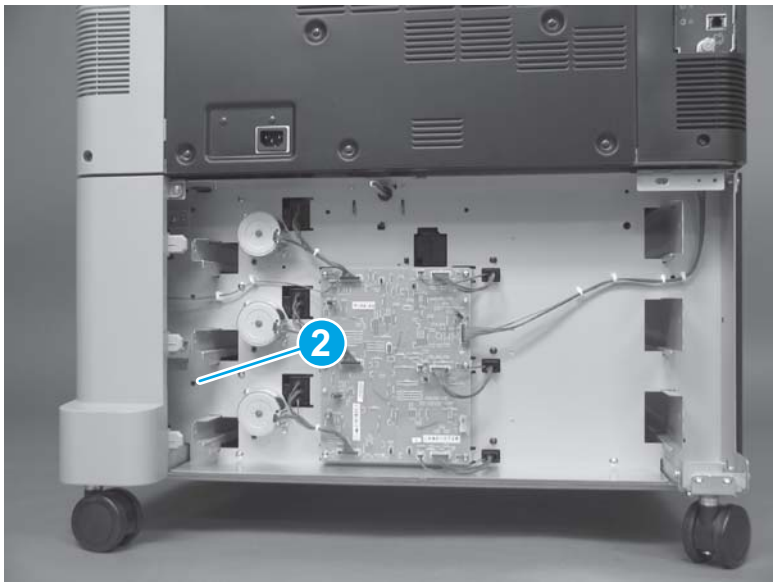


Figure 1-613 Reinstall the 3x500 Tray 5 pickup assembly (2 of 2)



1x500 Tray 3 automatic close assembly

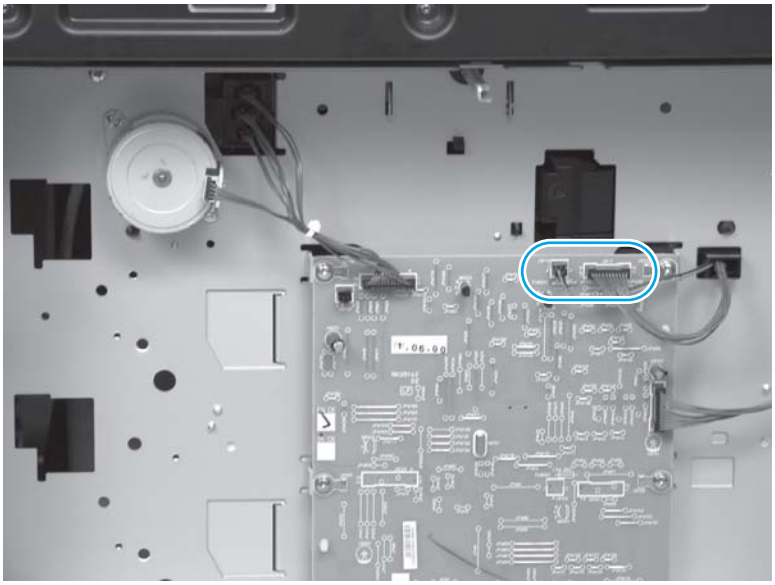
Before proceeding, remove the following assemblies:

- 1x500 Tray 3. See Tray 2, 1x500 Tray 3, 3x500 Tray 3, 3x500 Tray 4, and 3x500 Tray 5 on page 18.
- 1x500 and 3x500 rear cover. See 1x500 and 3x500 rear cover on page 387.

Remove the 1x500 Tray 3 automatic close assembly

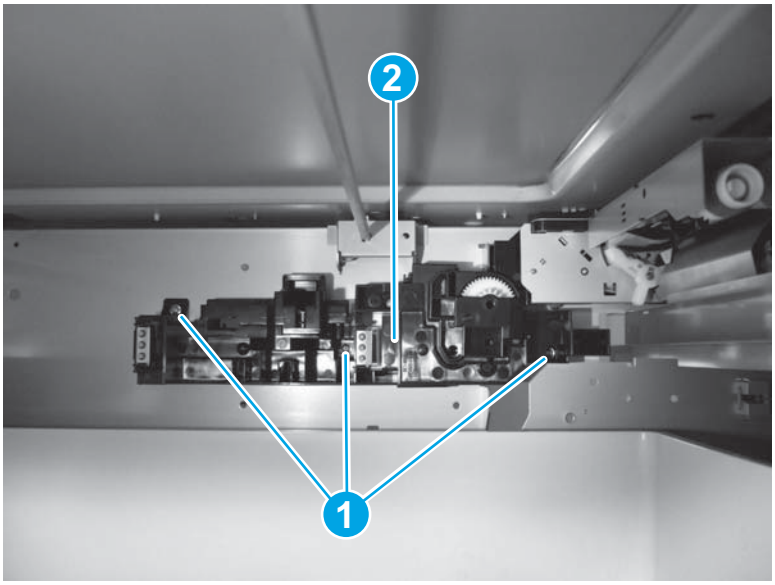
1. Disconnect two connectors on the back of the product.

Figure 1-614 Remove the 1x500 Tray 3 automatic close assembly (1 of 2)



2. From inside the tray cavity, remove three screws (callout 1), and then remove the automatic close assembly (callout 2).

Figure 1-615 Remove the 1x500 Tray 3 automatic close assembly (2 of 2)



3x500 Tray 3, Tray 4, and Tray 5 automatic close assemblies

Before proceeding, remove the following assemblies:

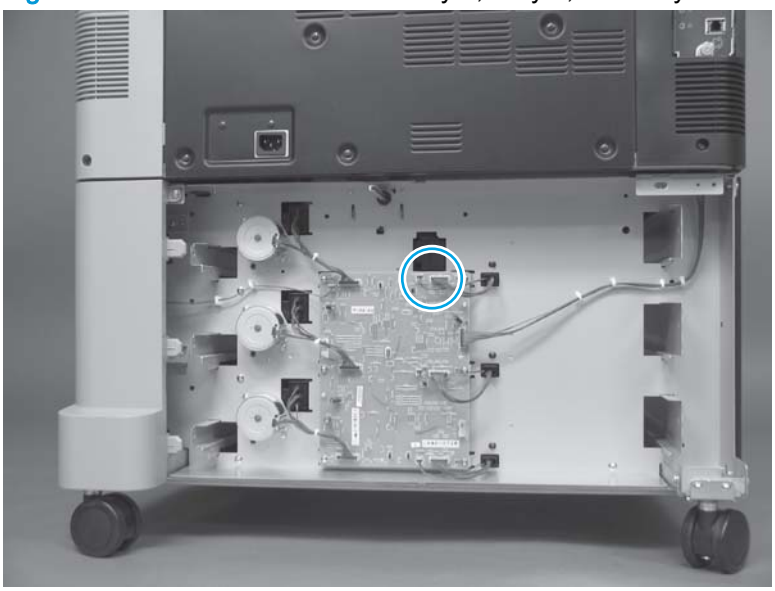
- 3x500 Tray 3. See Tray 2, 1x500 Tray 3, 3x500 Tray 3, 3x500 Tray 4, and 3x500 Tray 5 on page 18.
- 3x500 Tray 4. See Tray 2, 1x500 Tray 3, 3x500 Tray 3, 3x500 Tray 4, and 3x500 Tray 5 on page 18.
- 3x500 Tray 5. See Tray 2, 1x500 Tray 3, 3x500 Tray 3, 3x500 Tray 4, and 3x500 Tray 5 on page 18.
- 1x500 and 3x500 rear cover. See 1x500 and 3x500 rear cover on page 387.

Remove the 3x500 Tray 3, Tray 4, and Tray 5 automatic close assemblies

NOTE: The 3x500 Tray 3 automatic close assembly is shown below. The procedure is the same for the 3x500 Tray 4 or Tray 5 automatic close assemblies.

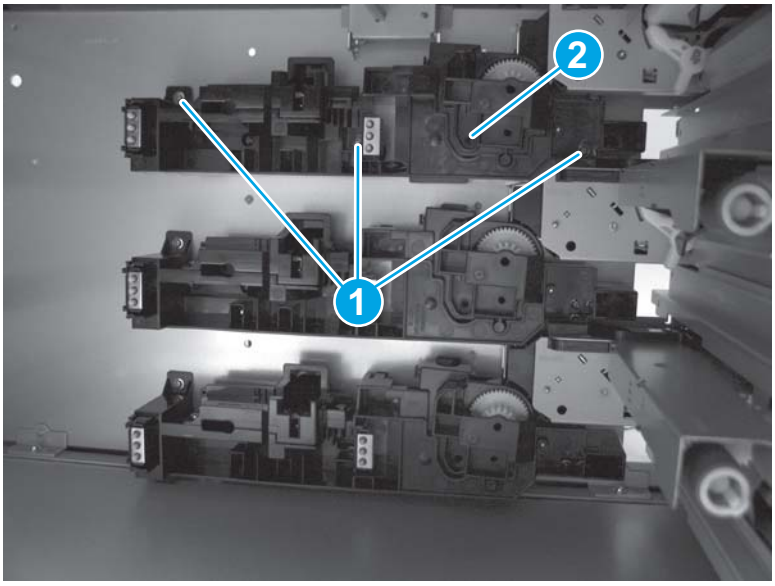
1. Disconnect two connectors on the back of the product.

Figure 1-616 Remove the 3x500 Tray 3, Tray 4, and Tray 5 automatic close assemblies (1 of 2)



2. From inside the tray cavity, remove three screws (callout 1), and then remove the automatic close assembly (callout 2).

Figure 1-617 Remove the 3x500 Tray 3, Tray 4, and Tray 5 automatic close assemblies (2 of 2)



1x500 Tray 3, 3x500 Tray 3, Tray 4, and Tray 5 pickup motors

Before proceeding, remove the following assemblies:

- 1x500 and 3x500 rear cover. See 1x500 and 3x500 rear cover on page 387.

Remove the 1x500 Tray 3, 3x500 Tray 3, Tray 4, and Tray 5 pickup motors

1. Locate the pickup motors:
   - 1x500 Tray 3 pickup motor (callout 1)
   - 3x500 Tray 3 pickup motor (callout 2)
   - 3x500 Tray 4 pickup motor (callout 3)
   - 3x500 Tray 5 pickup motor (callout 4)

Figure 1-618 1x500 pickup motor location

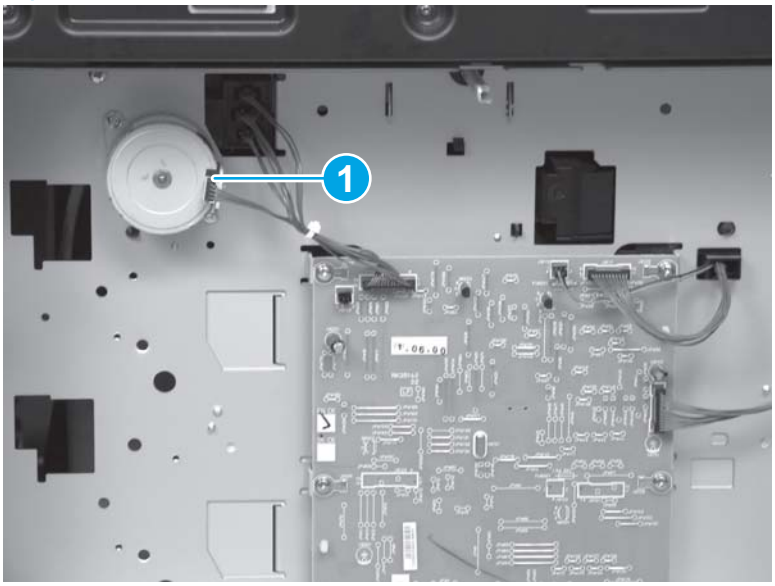
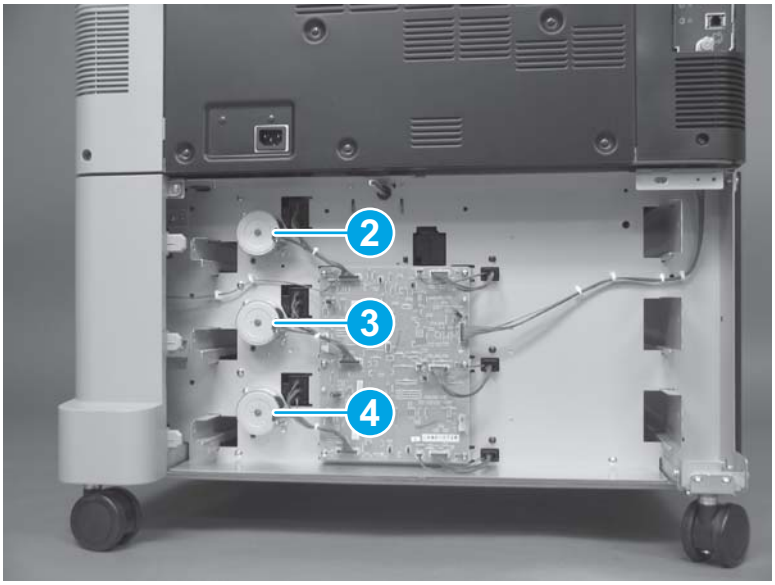


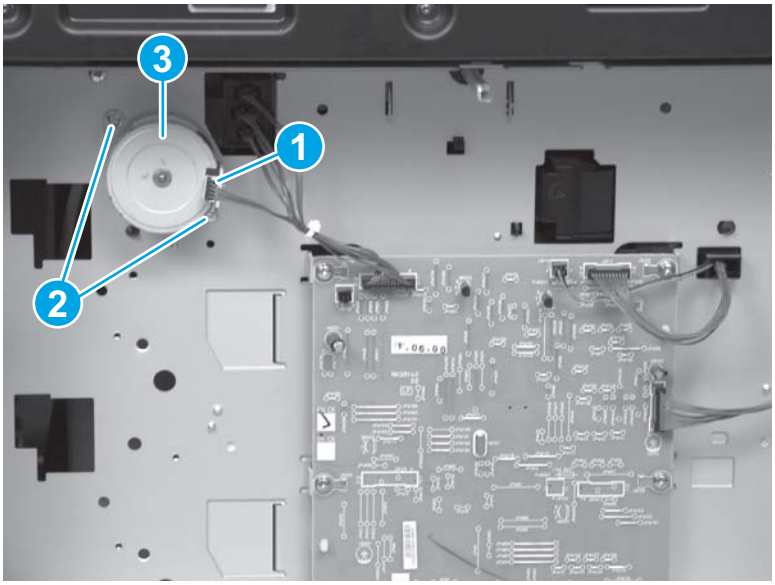
Figure 1-619 3x500 pickup motor locations



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

NOTE: The 1x500 Tray 3 pickup motor is shown below. The procedure is the same for the 3x500 Tray 3, Tray 4, and Tray 5 pickup motors.

Figure 1-620 Remove the 1x500 Tray 3, 3x500 Tray 3, Tray 4, and Tray 5 pickup motors



1x500 and 3x500 controller PCA

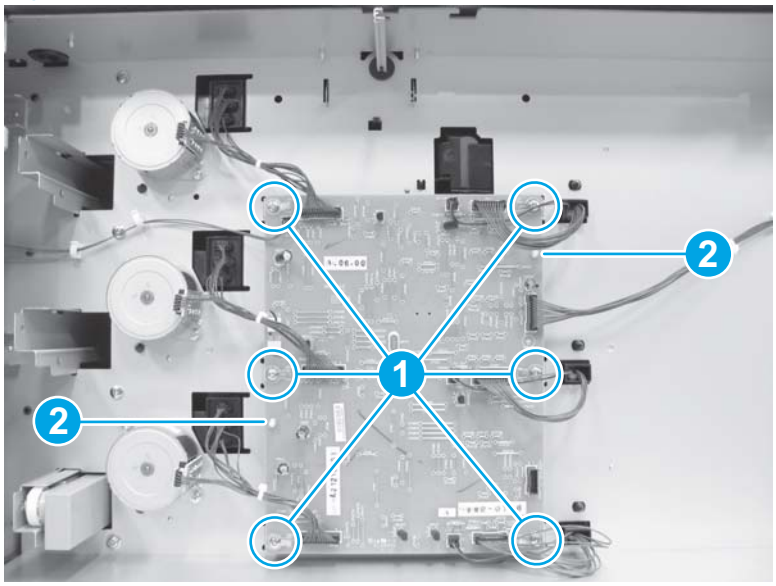
Before proceeding, remove the following assemblies:

- 1x500 and 3x500 rear cover. See 1x500 and 3x500 rear cover on page 387.

Remove the HCI controller PCA

Disconnect all of the connectors on the 1x500 and 3x500 controller PCA, remove six screws (callout 1), release two standoffs (callout 2), and then remove the PCA.

Figure 1-621 Remove the HCI controller PCA



Shared input accessory covers and doors

HCI, 1x500, and 3x500 left cover

Before proceeding, remove the following assemblies:

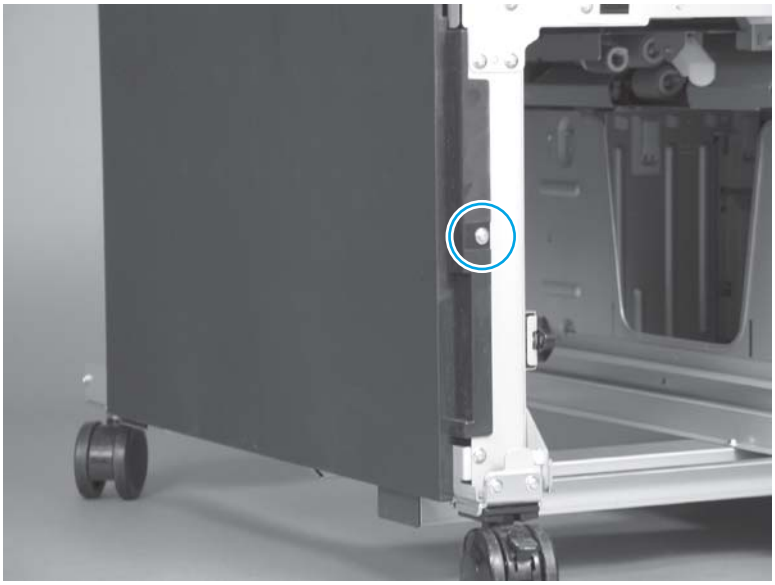
- 3x500 Tray 3 (3x500 only). See Tray 2, 1x500 Tray 3, 3x500 Tray 3, 3x500 Tray 4, and 3x500 Tray 5 on page 18.
- 3x500 Tray 4 (3x500 only). See Tray 2, 1x500 Tray 3, 3x500 Tray 3, 3x500 Tray 4, and 3x500 Tray 5 on page 18.
- HCI left tray (HCI only). See HCI left tray on page 361.
- HCI rear cover (HCI only). See HCI rear cover on page 362.
- 1x500 and 3x500 rear cover (1x500 and 3x500 only). See 1x500 and 3x500 rear cover on page 387.
- 1x500 and 3x500 right front cover (1x500 and 3x500 only). See 1x500 and 3x500 right front cover on page 388.
- 1x500 and 3x500 upper front face cover (1x500 and 3x500 only). See 1x500 and 3x500 upper front face cover on page 390.
- 1x500 and 3x500 upper front cover (1x500 and 3x500 only). See 1x500 and 3x500 upper front cover on page 392.
- 1x500 storage box door (1x500 only). See 1x500 storage box door on page 396.
- 1x500 storage box (1x500 only). See 1x500 storage box on page 398.

Remove the HCI, 1x500, and 3x500 left cover

NOTE: The HCI is shown below.

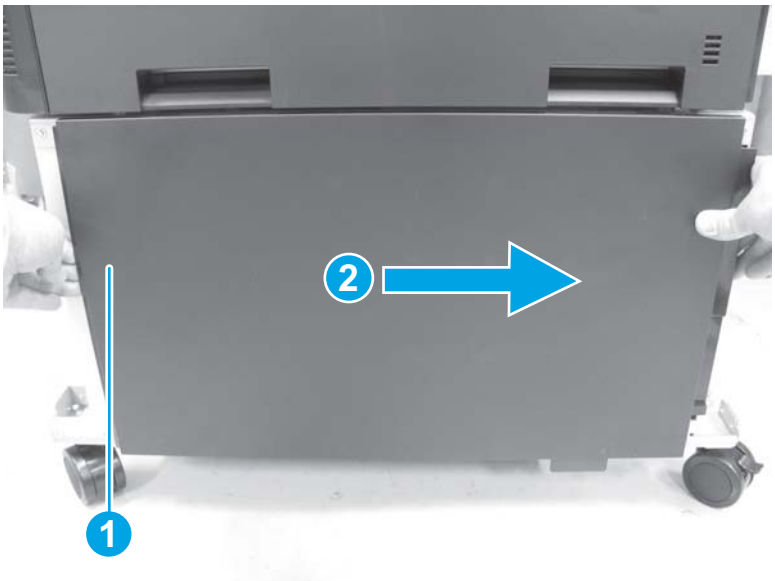
1. Remove one screw.

Figure 1-622 Remove the HCI, 1x500, and 3x500 left cover (1 of 2)



2. Pull out slightly on the back edge of the cover to release one tab (callout 1), and then slide the cover toward the front of the product (callout 2) to remove it.

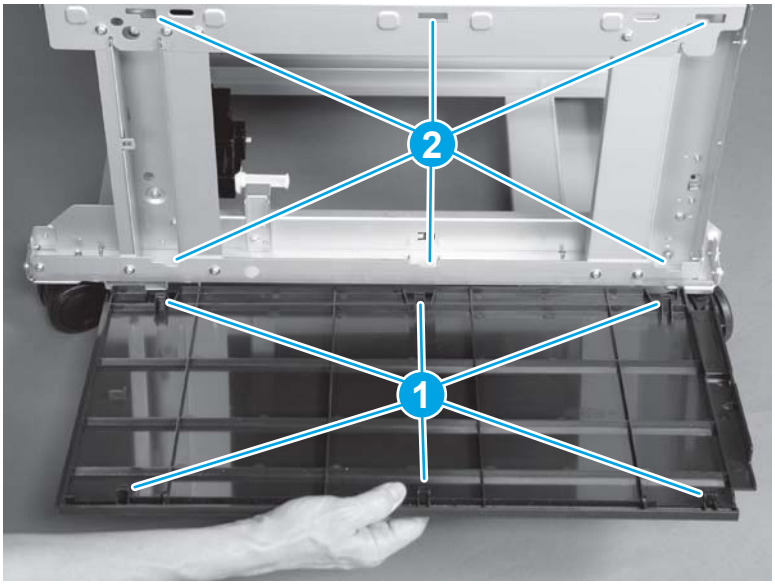
Figure 1-623 Remove the HCI, 1x500, and 3x500 left cover (2 of 2)



Reinstall the HCI, 1x500, and 3x500 left cover

Make sure that the tabs (callout 1) on the cover are positioned in the slots (callout 2) in the product.

Figure 1-624 Reinstall the HCI, 1x500, and 3x500 left cover

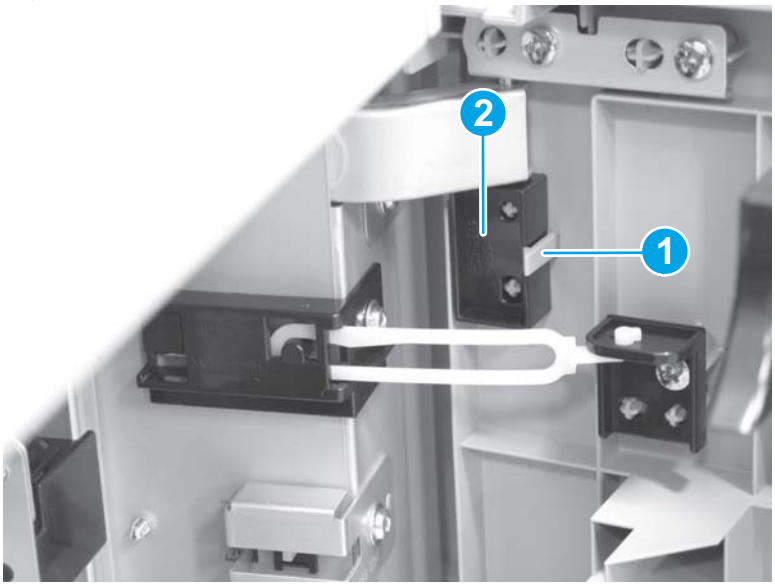


HCI, 1x500, and 3x500 right door assembly

Remove the HCI, 1x500, and 3x500 right door assembly

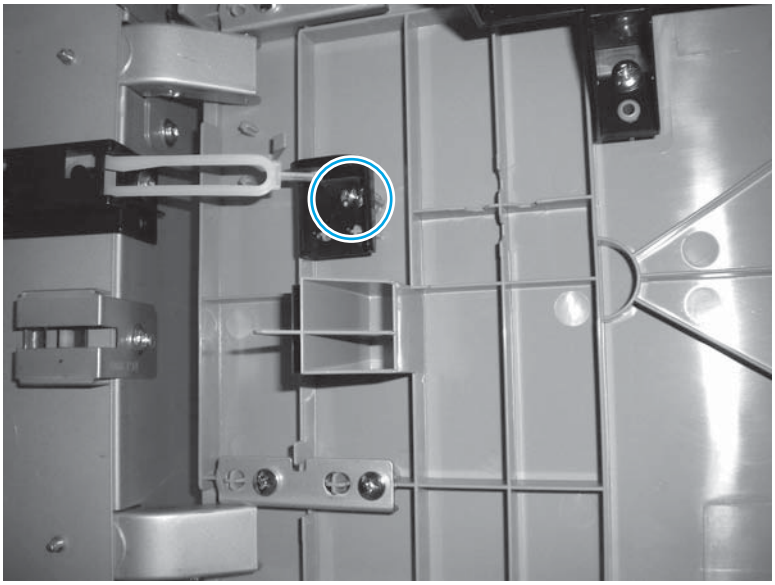
1. Open the right door assembly. Release one tab (callout 1), and then remove one stopper (callout 2).

   Figure 1-625 Remove the HCI, 1x500, and 3x500 right door assembly (1 of 3)

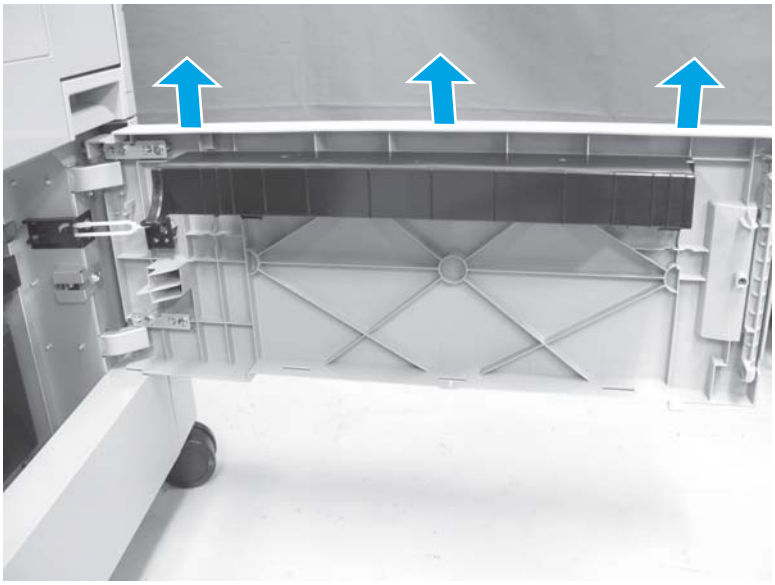
2. Remove one screw.

   Figure 1-626 Remove the HCI, 1x500, and 3x500 right door assembly (2 of 3)

3. Lift the door straight up to remove it.

Figure 1-627 Remove the HCI, 1x500, and 3x500 right door assembly (3 of 3)



HCI, 1x500, and 3x500 right rear cover

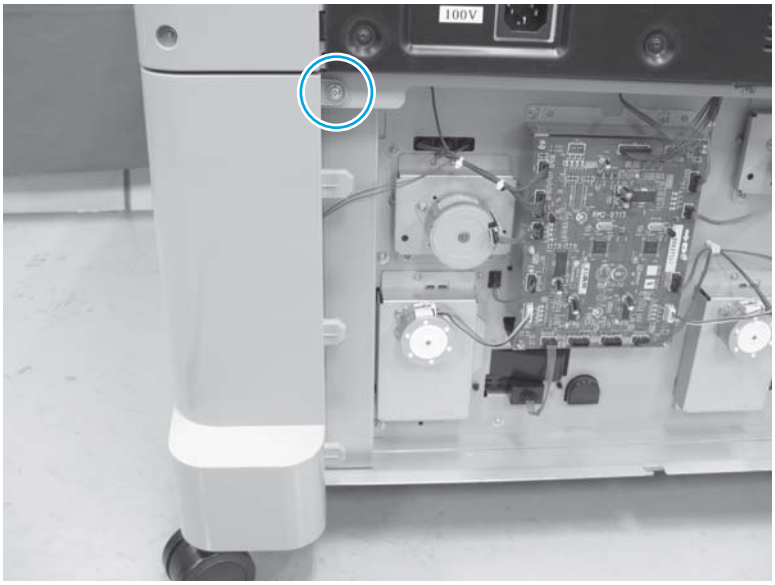
Before proceeding, remove the following assemblies:

- HCI rear cover (HCI only). See HCI rear cover on page 362.
- 1x500 and 3x500 rear cover (1x500 or 3x500 only). See 1x500 and 3x500 rear cover on page 387.

Remove the HCI, 1x500, and 3x500 right rear cover

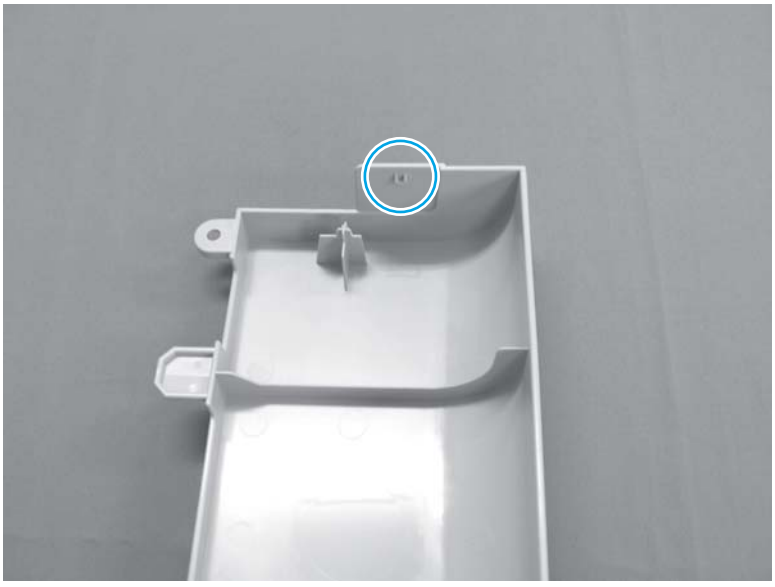
1. Remove one screw.

Figure 1-628 Remove the HCI, 1x500, and 3x500 right rear cover (1 of 4)



2. Note the location of the tab on the top of the cover.

Figure 1-629 Remove the HCI, 1x500, and 3x500 right rear cover (2 of 4)



3. Use a small, flat-blade screwdriver to release one tab.

Figure 1-630 Remove the HCI, 1x500, and 3x500 right rear cover (3 of 4)

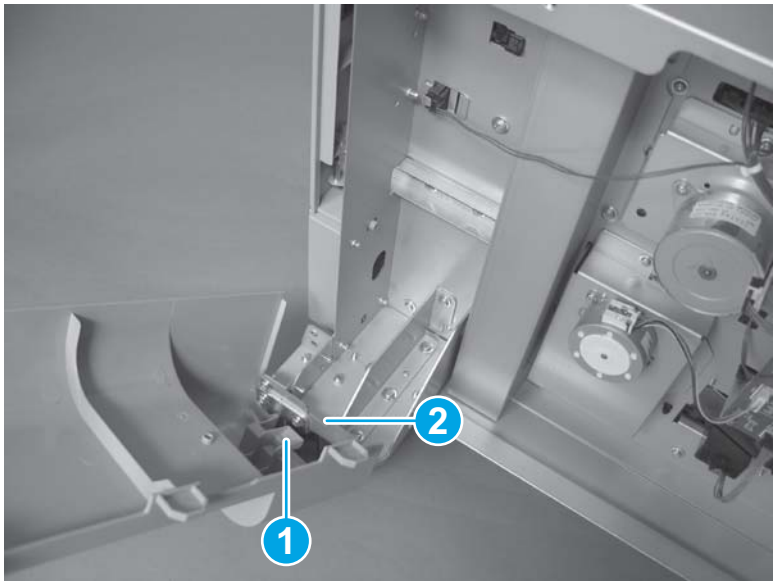
4. Remove the right rear cover.

Figure 1-631 Remove the HCI, 1x500, and 3x500 right rear cover (4 of 4)

Reinstall the HCI right rear cover

Make sure that the tab on the cover (callout 1) is installed over the sheet-metal slot on the product (callout 2).

Figure 1-632 Reinstall the HCI, 1x500, and 3x500 right rear cover

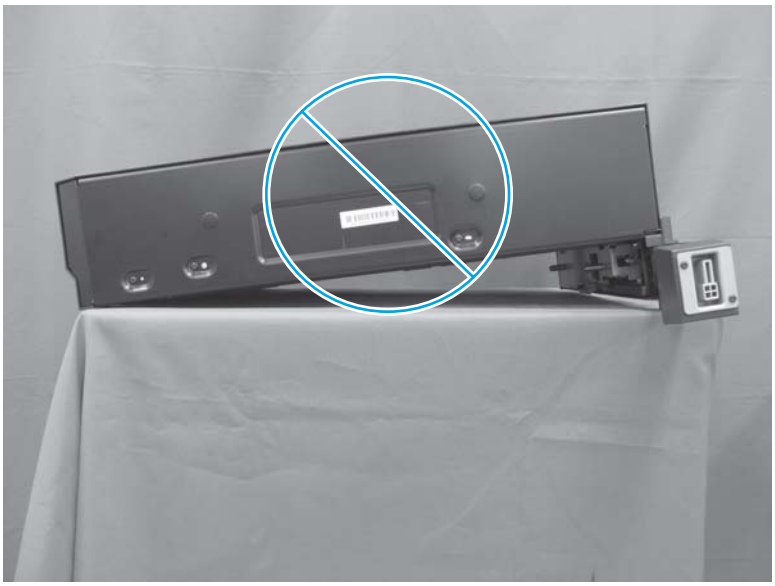


Intermediate paper transport unit (IPTU)

⚠ **CAUTION:** To avoid damaging the intermediate paper transport unit (IPTU), place it on the edge of a work surface as shown below to service it.

Figure 1-633 Correct placement of the IPTU for servicing

Figure 1-634 Incorrect placement of the IPTU for servicing



Location of major components

Figure 1-635 IPTU covers (1 of 2)

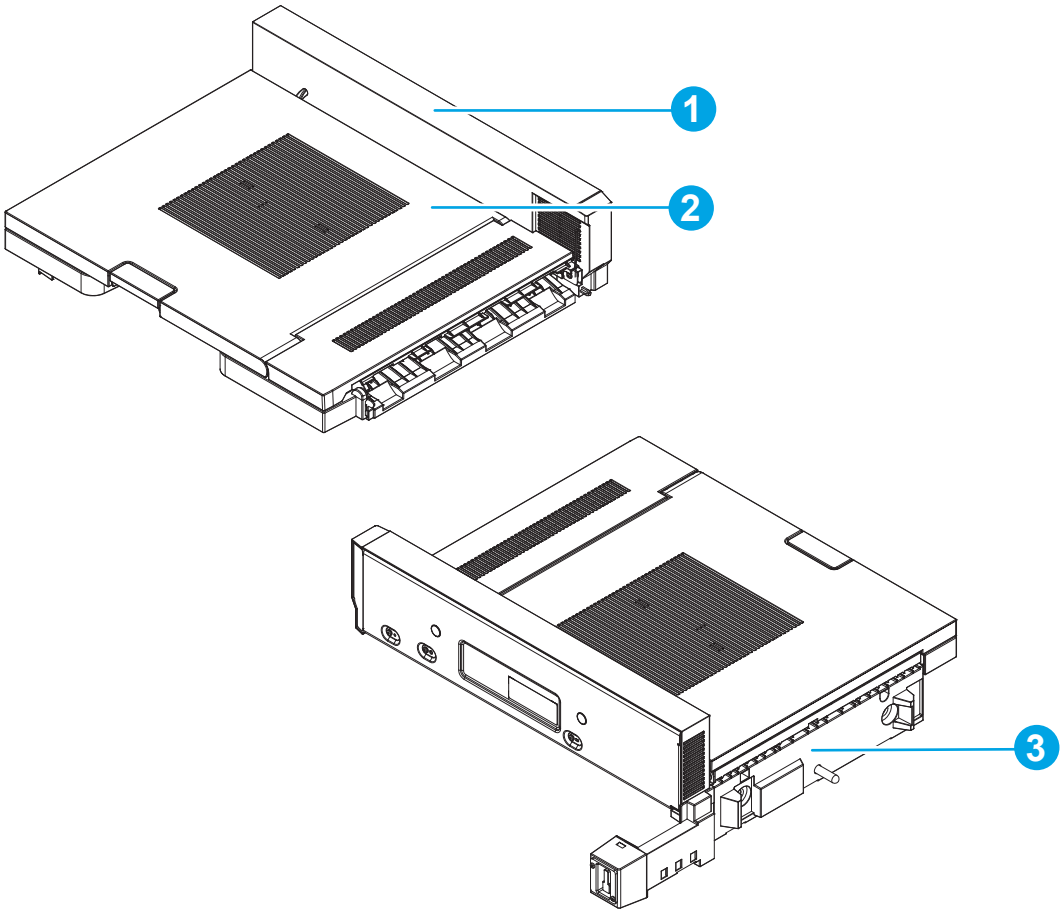


Table 1-20 IPTU covers (1 of 2)

Item	Description
1	Side panel assembly
2	Upper guide assembly
3	Finisher lock assembly

Figure 1-636 IPTU covers (2 of 2)

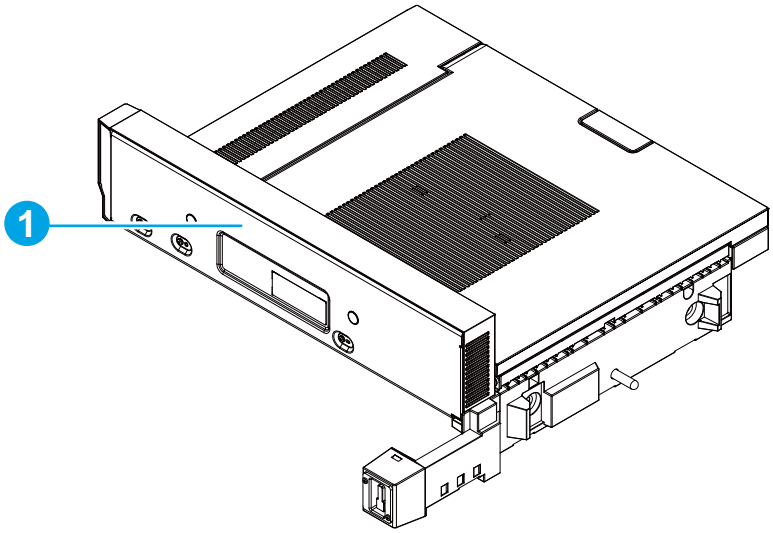


Table 1-21 IPTU covers (2 of 2)

Item	Description
1	Rear cover

Figure 1-637 IPTU main assemblies

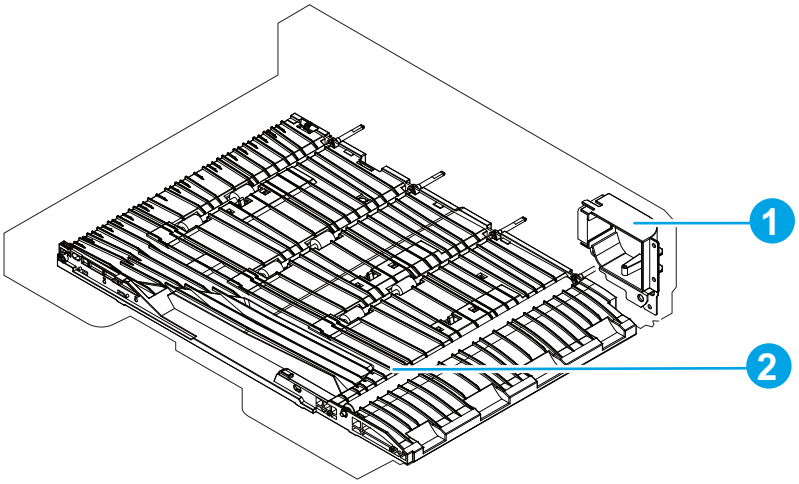


Table 1-22 IPTU main assemblies

Item	Description
1	IPTU fan assembly
2	Lower guide assembly

Figure 1-638 IPTU PCA

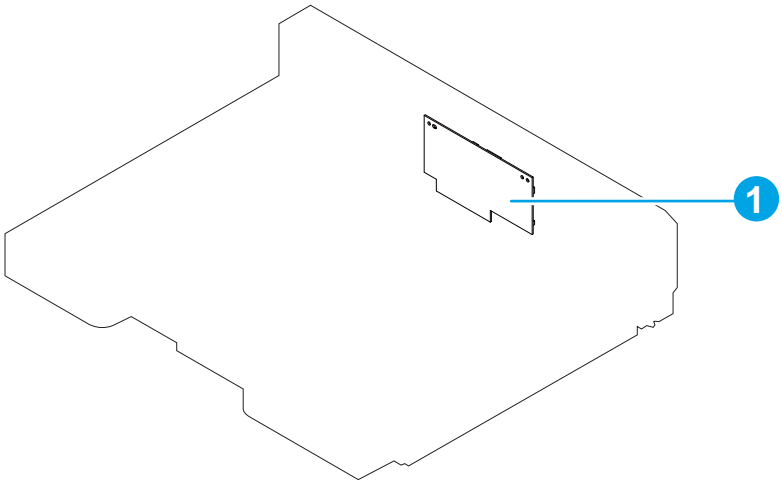


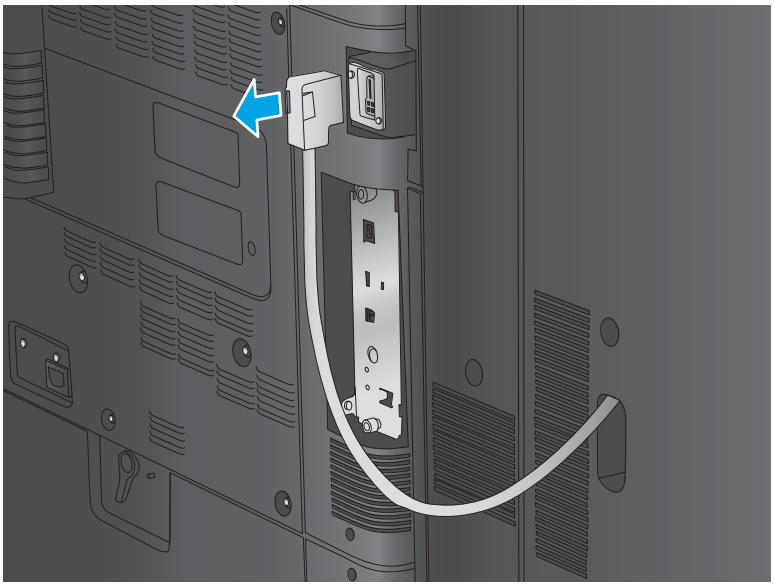
Table 1-23 IPTU PCA

Item	Description
1	IPTU driver PCA

IPTU assembly

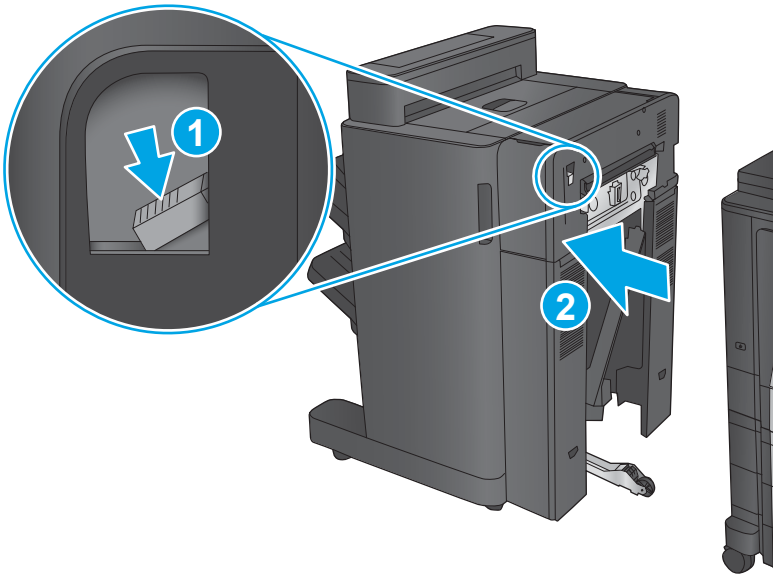
1. Turn the product off.
2. If a finishing accessory is attached, unplug the device from the printer.

Figure 1-639 Remove the IPTU (1 of 4)



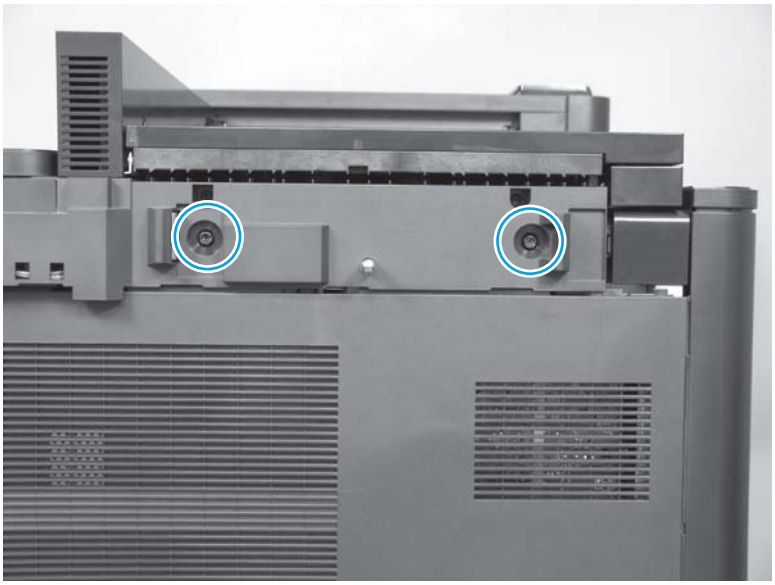
3. Press the release button down and hold it down (callout 1) as you slide the finishing accessory away from the product (callout 2).

Figure 1-640 Remove the IPTU (2 of 4)



4. Remove two screws.

Figure 1-641 Remove the IPTU (3 of 4)



5. Slide the IPTU away from the product to remove it.

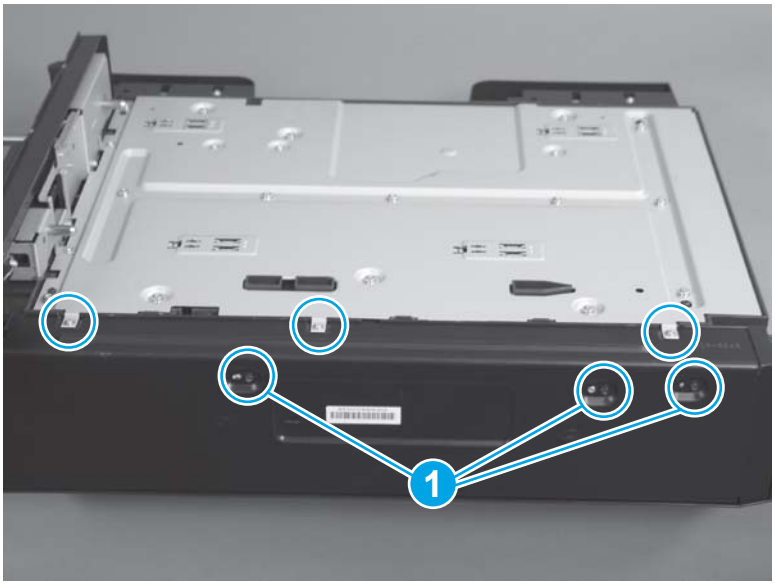
Figure 1-642 Remove the IPTU (4 of 4)

IPTU rear cover

1. Place the IPTU face-down, and then remove six screws.

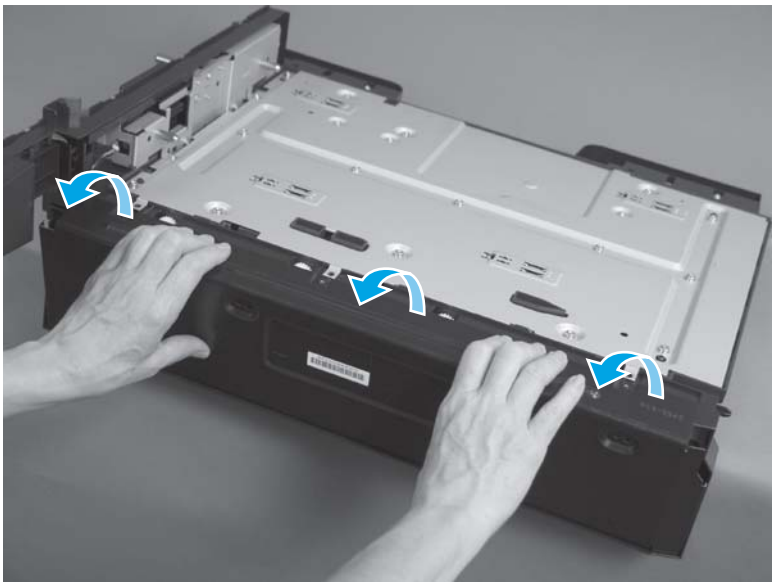
Reinstallation tip Three of these screws (callout 1) have washers attached. Make sure that these screws are reinstalled in the same locations.

Figure 1-643 Remove the IPTU rear cover (1 of 3)



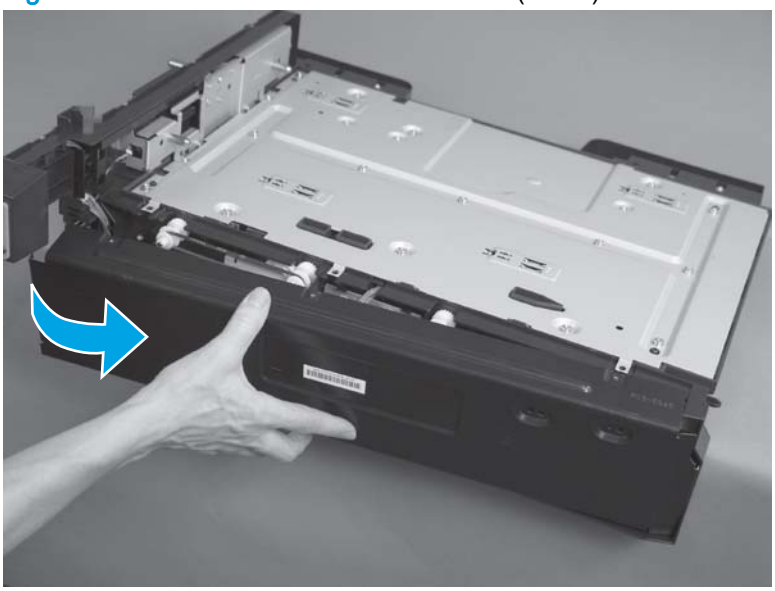
2. Rotate the top edge of the cover away from the IPTU.

Figure 1-644 Remove the IPTU rear cover (2 of 3)



3. Rotate the left edge of the cover away from the IPTU, and then remove the cover.

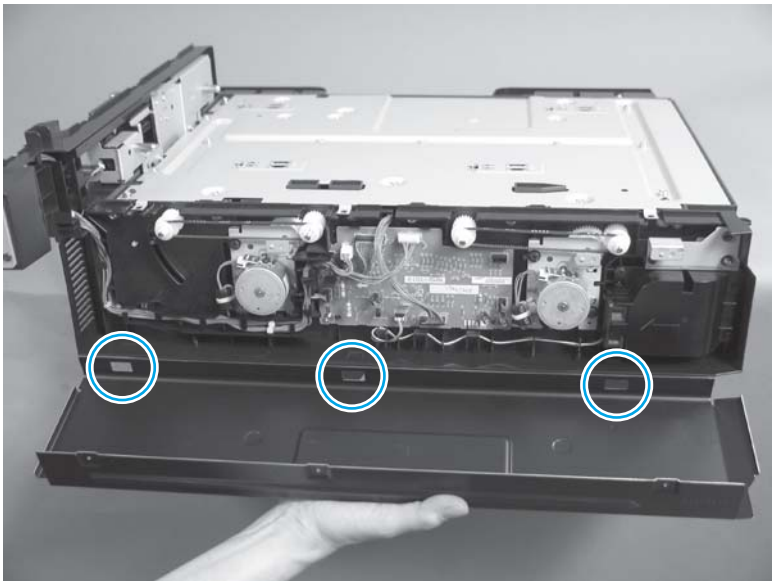
Figure 1-645 Remove the IPTU rear cover (3 of 3)



Reinstall the IPTU rear cover

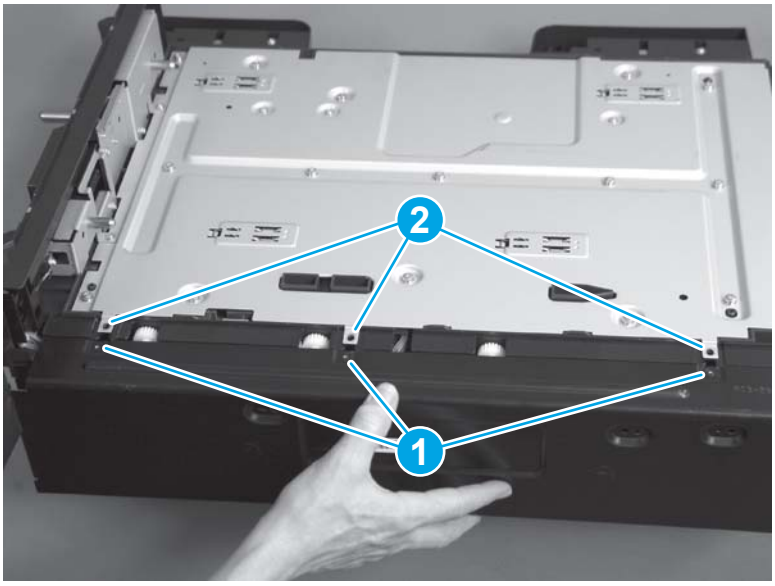
1. Make sure that the slots in the cover are aligned with the tabs on the IPTU.

Figure 1-646 Reinstall the IPTU rear cover (1 of 2)



2. Make sure that the indentations on the cover (callout 1) slide underneath the metal tabs (callout 2) on the IPTU.

Figure 1-647 Reinstall the IPTU rear cover (2 of 2)



IPTU driver PCA

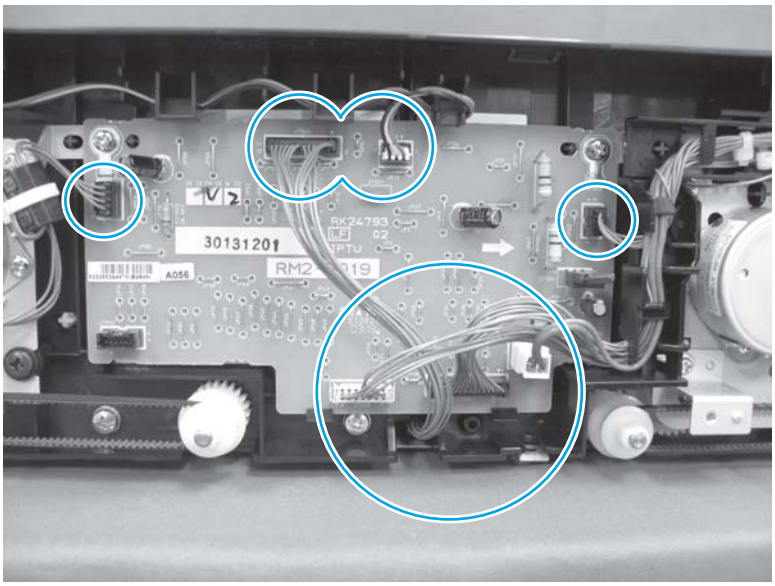
Before proceeding, remove the following assemblies:

- IPTU rear cover. See IPTU rear cover on page 439.

Remove the IPTU driver PCA

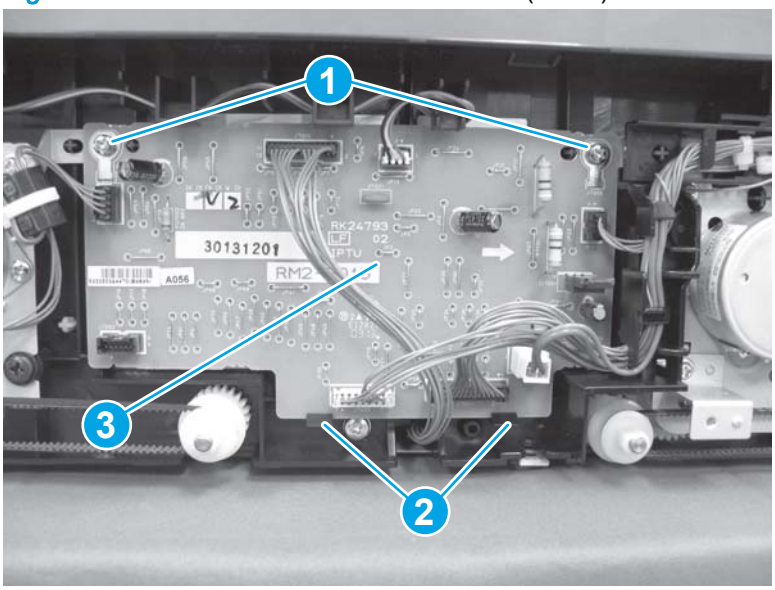
1. Disconnect seven connectors.

Figure 1-648 Remove the IPTU driver PCA (1 of 2)



2. Remove two screws (callout 1), release two tabs, and then remove the IPTU driver PCA (callout 3).

Figure 1-649 Remove the IPTU driver PCA (2 of 2)



IPTU finisher lock assembly

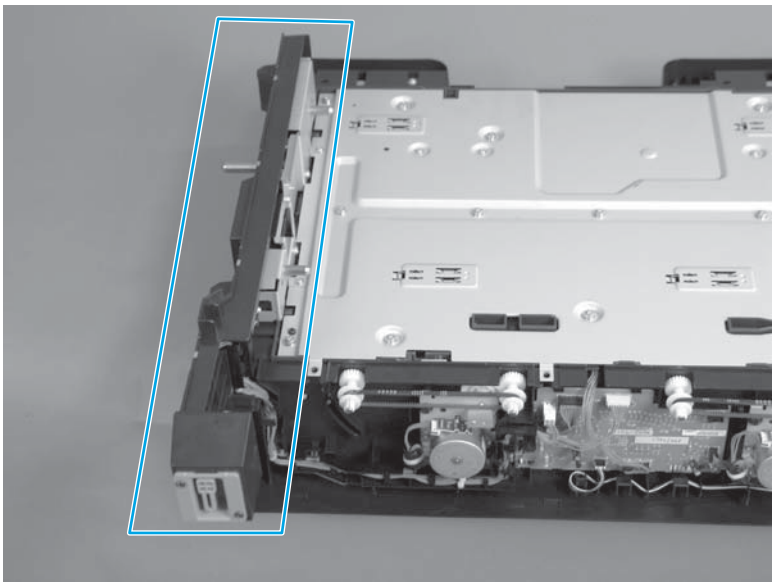
Before proceeding, remove the following assemblies:

- IPTU rear cover. See IPTU rear cover on page 439.

Remove the IPTU finisher lock assembly

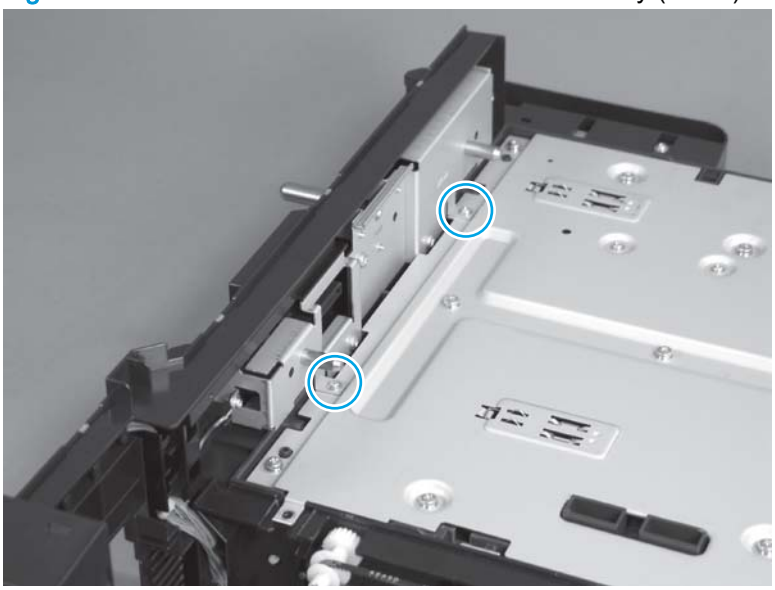
1. Place the IPTU face-down, and then locate the finisher lock assembly.

Figure 1-650 Remove the IPTU finisher lock assembly (1 of 5)



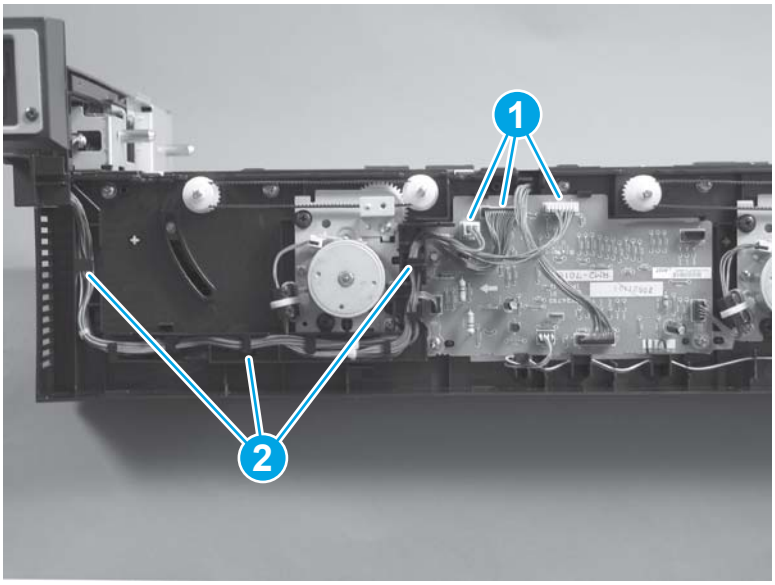
2. Remove two screws.

Figure 1-651 Remove the IPTU finisher lock assembly (2 of 5)



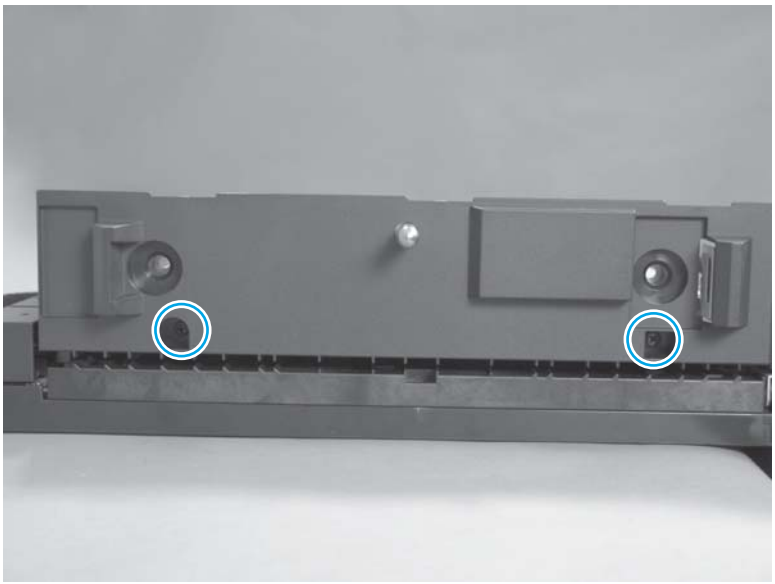
3. Disconnect three connectors (callout 1) on the IPTU driver PCA, and then remove the wire harnesses from the guides (callout 2).

Figure 1-652 Remove the IPTU finisher lock assembly (3 of 5)



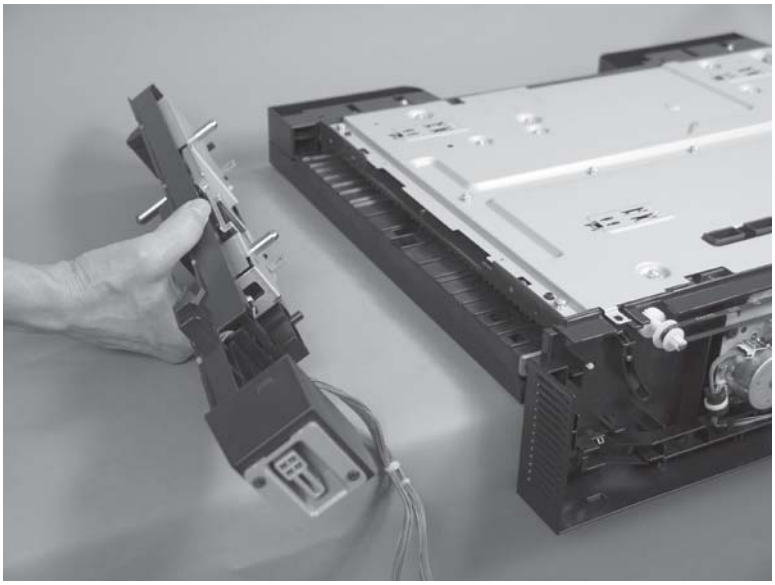
4. Remove two screws.

Figure 1-653 Remove the IPTU finisher lock assembly (4 of 5)



5. Remove the IPFU finisher lock assembly.

Figure 1-654 Remove the IPTU finisher lock assembly (5 of 5)



IPTU fan assembly

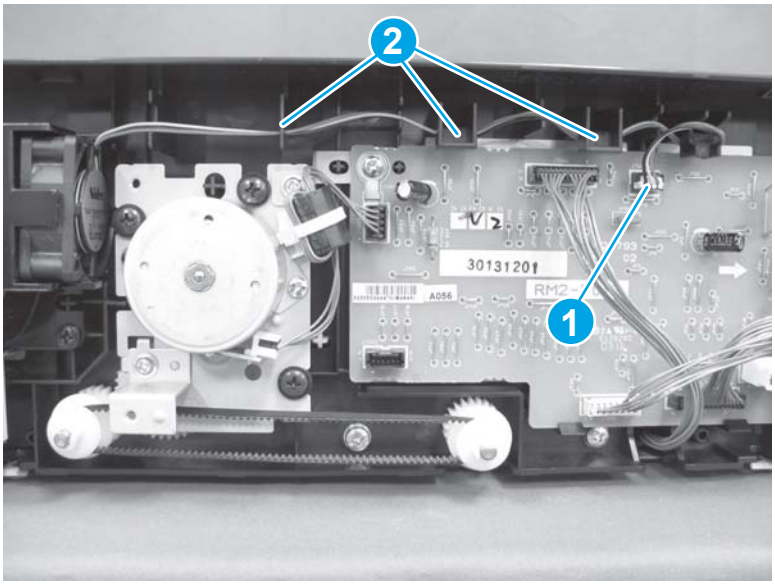
Before proceeding, remove the following assemblies:

- IPTU rear cover. See IPTU rear cover on page 439.

Remove the IPTU fan assembly

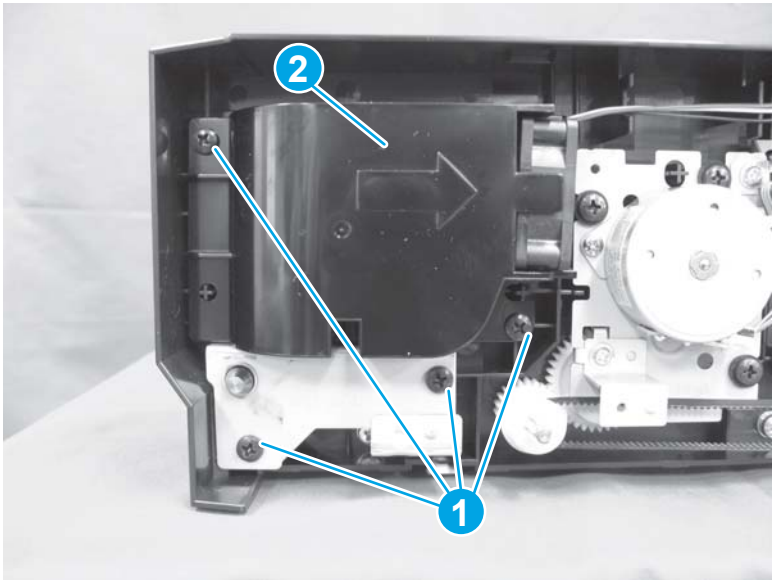
1. Disconnect one connector (callout 1), and then release the wire harness from the guide (callout 2).

Figure 1-655 Remove the IPTU fan assembly (1 of 2)



2. Remove four screws (callout 1), and then remove the fan assembly (callout 2).

Figure 1-656 Remove the IPTU fan assembly (2 of 2)



IPTU side panel assembly

Before proceeding, remove the following assemblies:

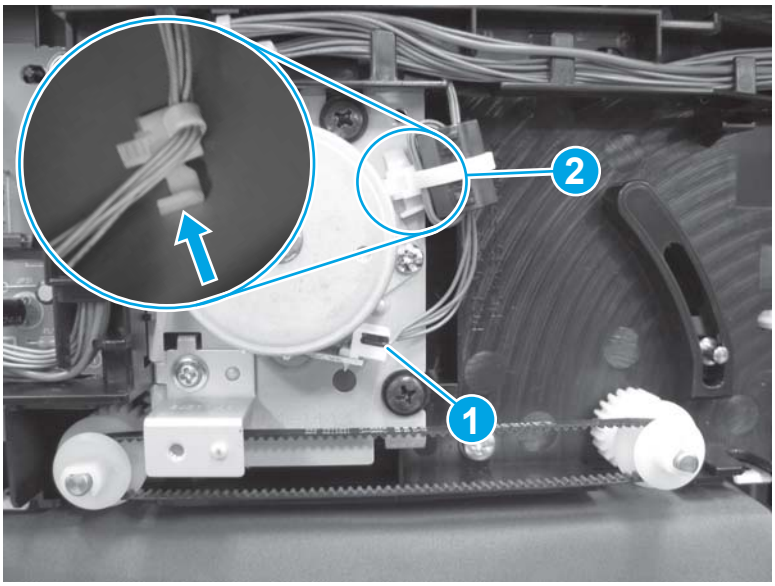
- IPTU rear cover. See IPTU rear cover on page 439.
- IPTU finisher lock assembly. See IPTU finisher lock assembly on page 443.
- IPTU fan assembly. See IPTU fan assembly on page 446.
- IPTU driver PCA. See IPTU driver PCA on page 442.

Remove the IPTU side panel assembly

1. Disconnect one connector (callout 1), and then remove one wire tie (callout 2).

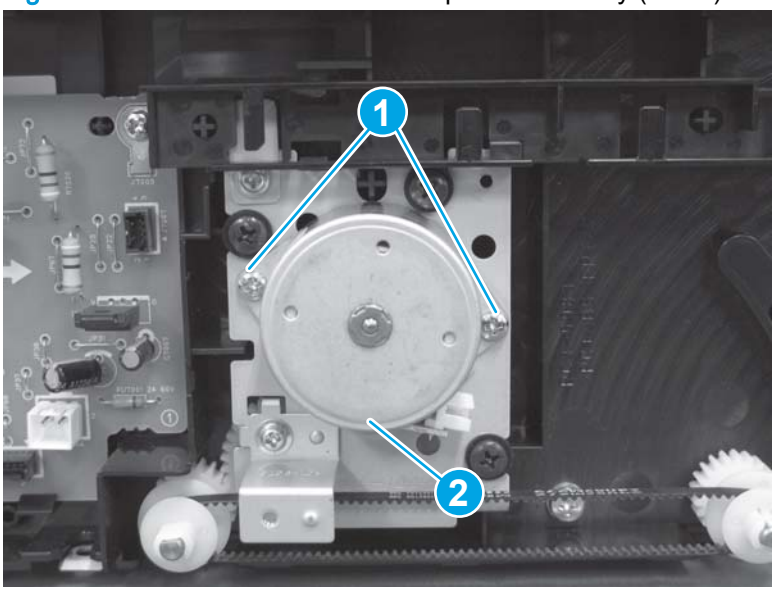
TIP: To release the wire tie (callout 2), push in on the tab, and then remove the wire tie from the chassis.

Figure 1-657 Remove the IPTU side panel assembly (1 of 6)



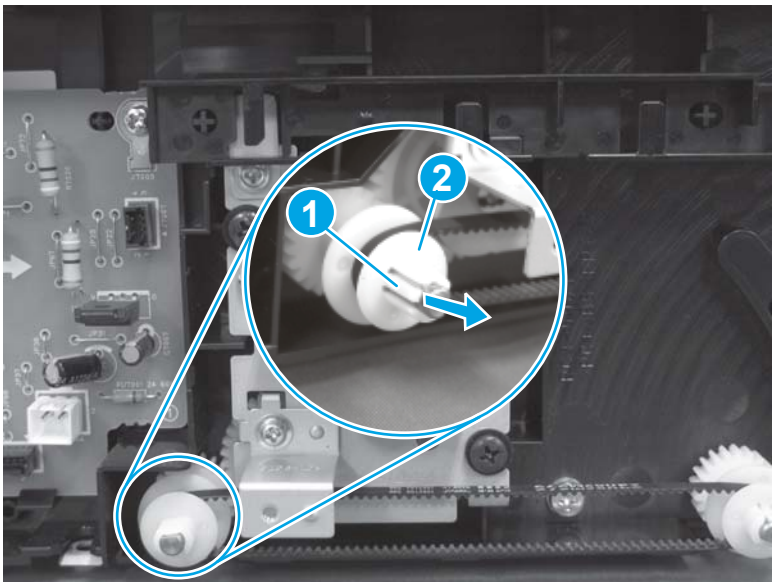
2. Remove two screws (callout 1), and then remove the right assist motor (callout 2).

Figure 1-658 Remove the IPTU side panel assembly (2 of 6)



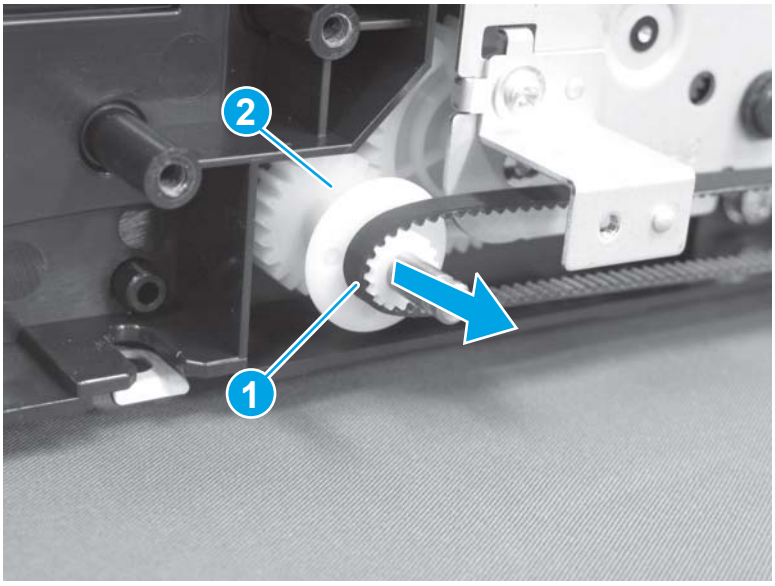
3. Release one tab (callout 1), and then slide the gear retainer (callout 2) off of the shaft to remove it.

Figure 1-659 Remove the IPTU side panel assembly (3 of 6)



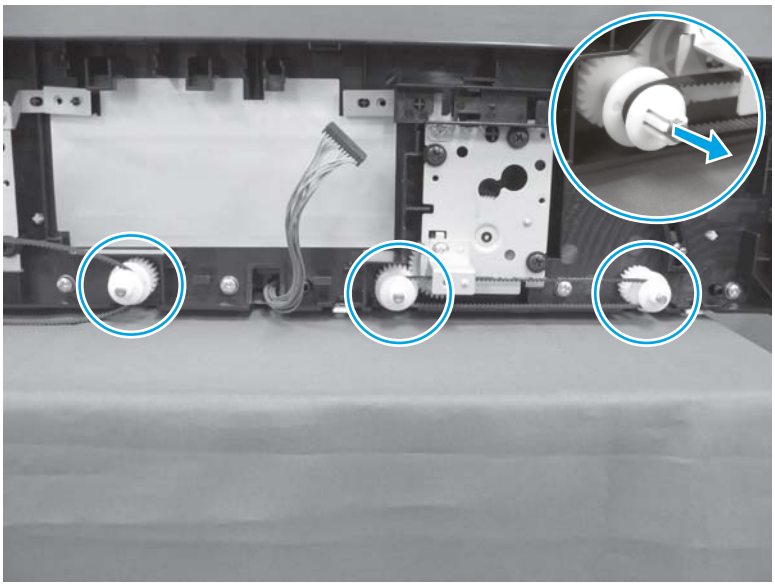
4. Remove one drive belt (callout 1), and then slide the drive gear (callout 2) off of the shaft to remove it.

Figure 1-660 Remove the IPTU side panel assembly (4 of 6)



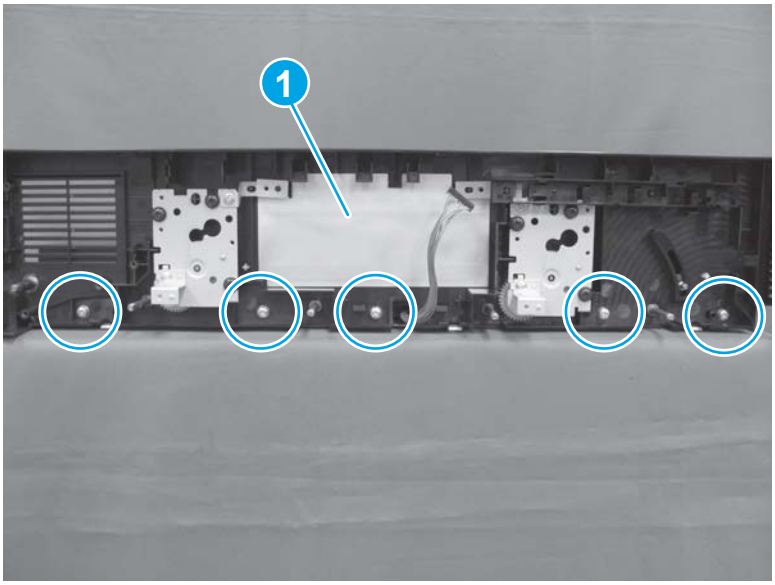
5. Repeat the previous two steps for the remaining three gear retainers, drive belts, and drive gears.

Figure 1-661 Remove the IPTU side panel assembly (5 of 6)



6. Remove five screws, and then remove the side panel assembly (callout 1).

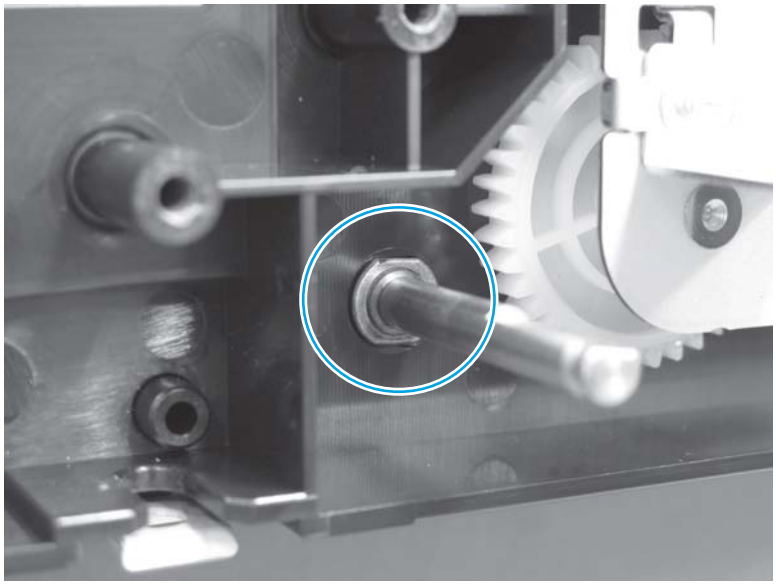
Figure 1-662 Remove the IPTU side panel assembly (6 of 6)



Reinstall the IPTU side panel assembly

When the side panel assembly is reinstalled, make sure that the bushings on the four drive-gear shafts are correctly installed as shown below.

Figure 1-663 Reinstall the IPTU side panel assembly



IPTU upper and lower guide assemblies

Before proceeding, remove the following assemblies:

- IPTU rear cover. See IPTU rear cover on page 439.

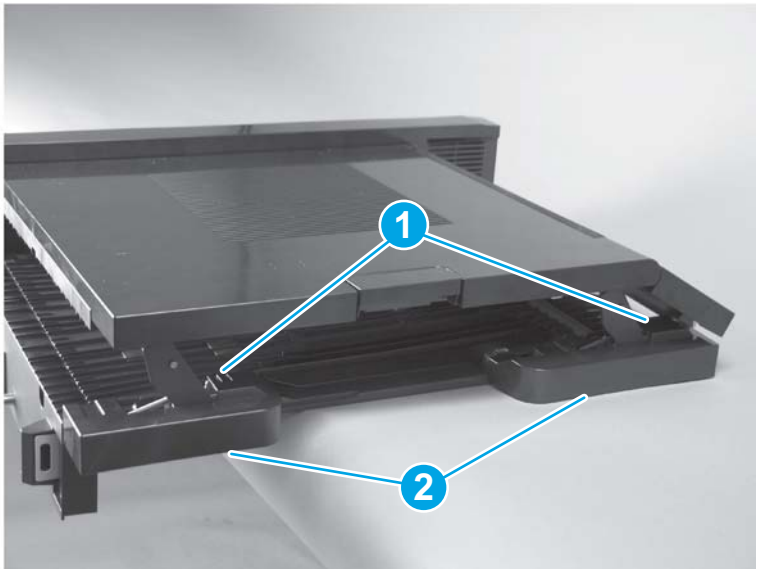
Remove the IPTU upper and lower guide assemblies

1. Turn the IPTU face-down, and then remove two screws.

   Figure 1-664 Remove the IPTU upper and lower guide assemblies (1 of 9)

2. Turn the IPTU face-up, release two tabs (callout 1), and then remove two covers (callout 2).

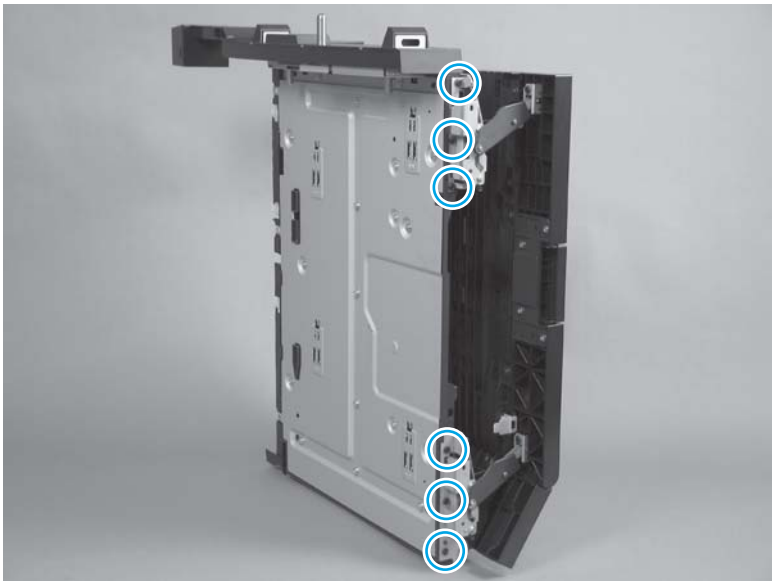
   Figure 1-665 Remove the IPTU upper and lower guide assemblies (2 of 9)

3. Remove six screws.

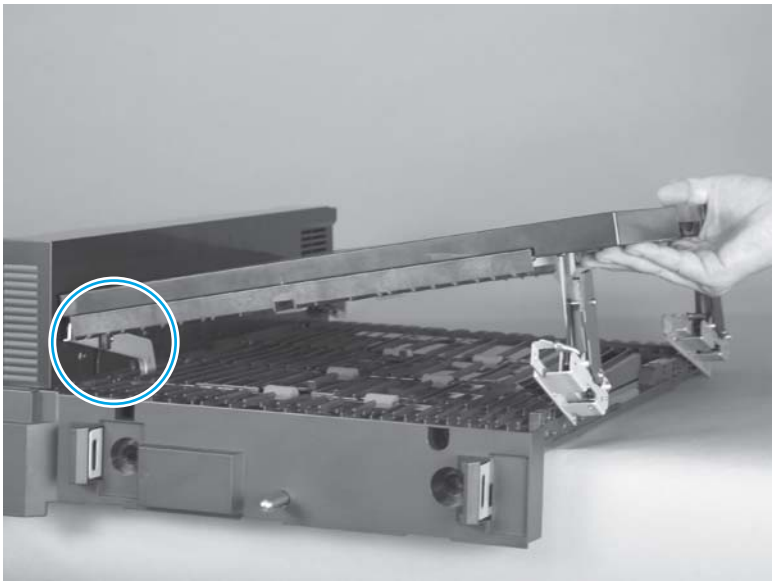
NOTE: These are self-tapping screws.

Figure 1-666 Remove the IPTU upper and lower guide assemblies (3 of 9)



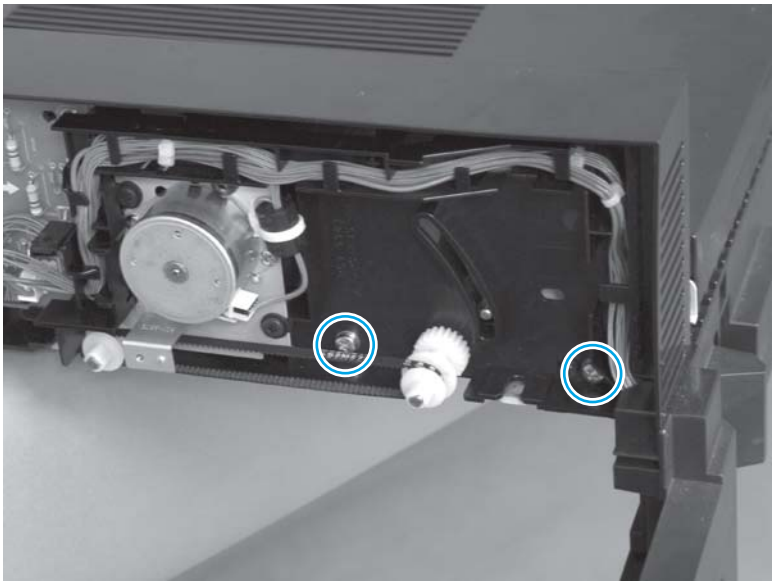
4. Lift the upper guide away from the IPTU, and then locate one hinge.

Figure 1-667 Remove the IPTU upper and lower guide assemblies (4 of 9)



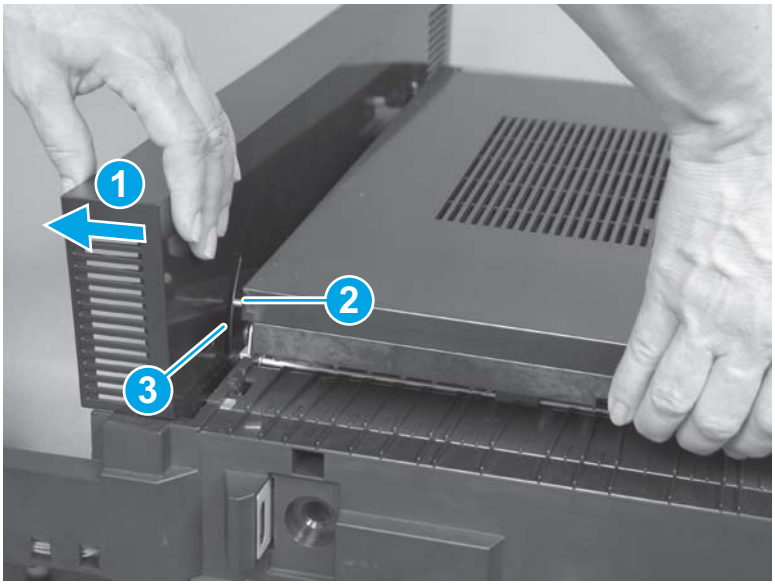
5. Remove two screws from the rear of the IPTU.

Figure 1-668 Remove the IPTU upper and lower guide assemblies (5 of 9)



6. Flex the plastic cover (callout 1) to release the hinge (callout 2) from the slot (callout 3).

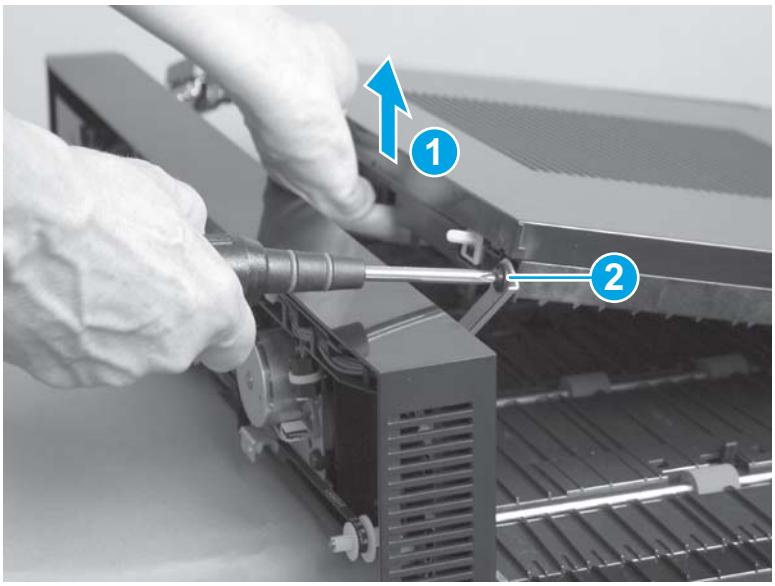
Figure 1-669 Remove the IPTU upper and lower guide assemblies (6 of 9)



7. Lift the upper guide assembly (callout 1) until the screw (callout 2) in the hinge is visible. Remove the screw.

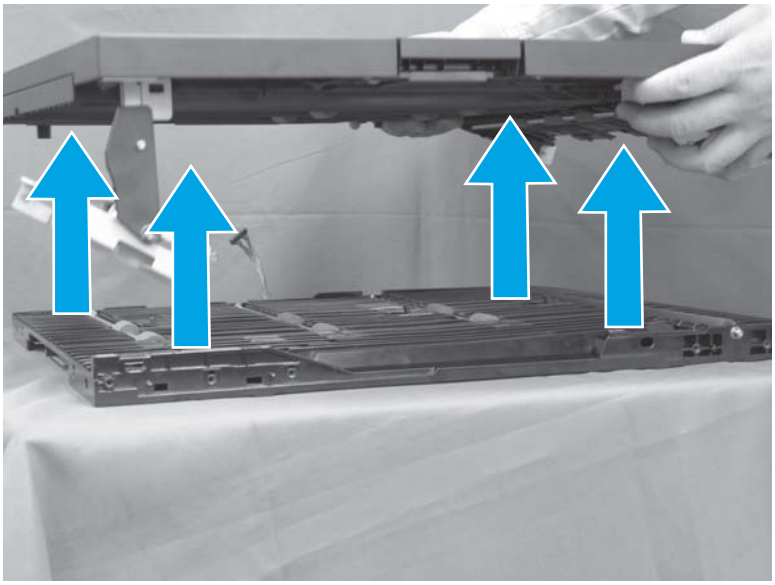
NOTE: This screw is different from the other screws in the assembly. Make sure to reinstall this screw in the hinge.

Figure 1-670 Remove the IPTU upper and lower guide assemblies (7 of 9)



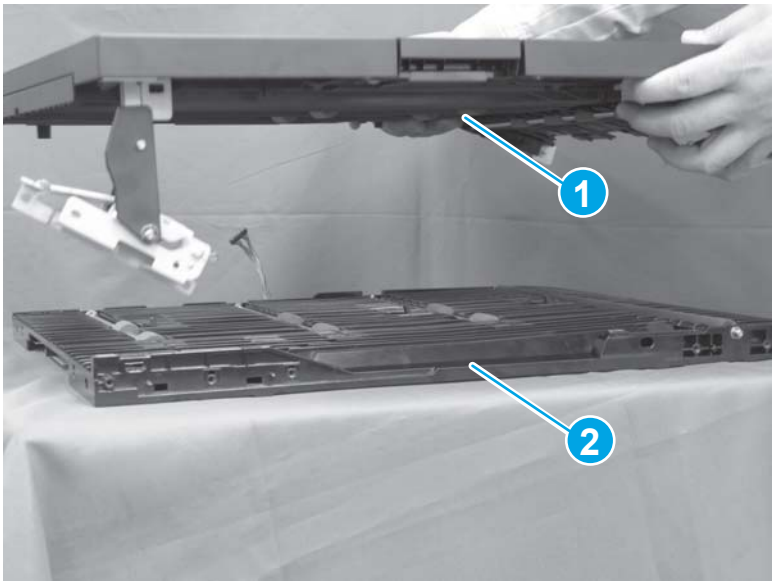
8. Lift the upper guide assembly straight up to remove it.

Figure 1-671 Remove the IPTU upper and lower guide assemblies (8 of 9)



9. Locate the upper guide assembly (callout 1) and the lower guide assembly (callout 2).

Figure 1-672 Remove the IPTU upper and lower guide assemblies (9 of 9)



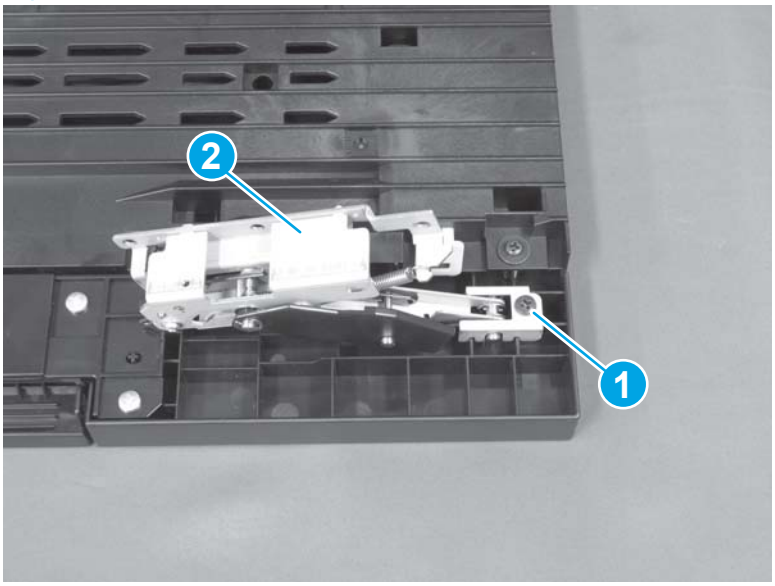
Install a replacement IPTU upper guide assembly

If you are installing a replacement upper guide assembly, follow these steps to remove the left- and right-assist assemblies, and then install them on the replacement upper guide assembly

1. Turn the upper guide assembly over to access the bottom of the assembly.

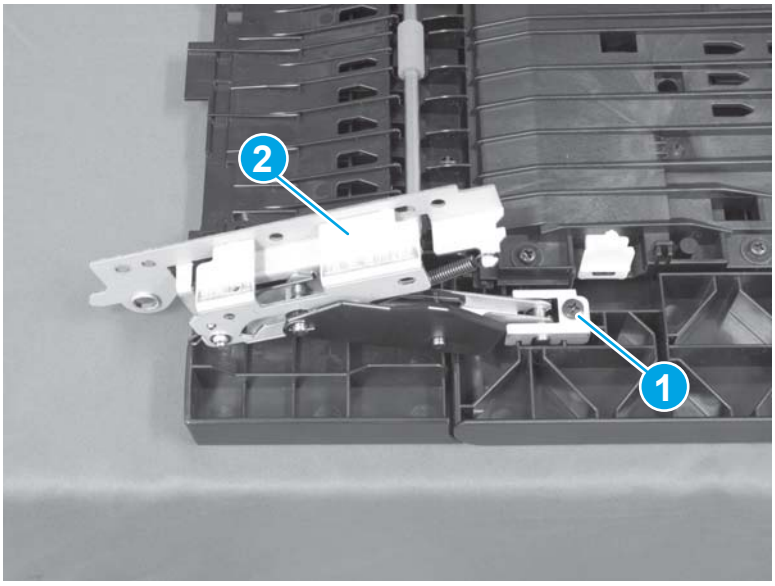
   Remove one screw (callout 1), and then remove the left-assist assembly (callout 2).

   Figure 1-673 Install a replacement IPTU upper guide assembly (1 of 2)



2. Remove one screw (callout 1), and then remove the right-assist assembly (callout 2).

   Figure 1-674 Install a replacement IPTU upper guide assembly (2 of 2)



Finishing accessories

⚠ **CAUTION:** Turn the product off and disconnect the finishing accessory from the product before servicing.

This section includes information about the following topics:

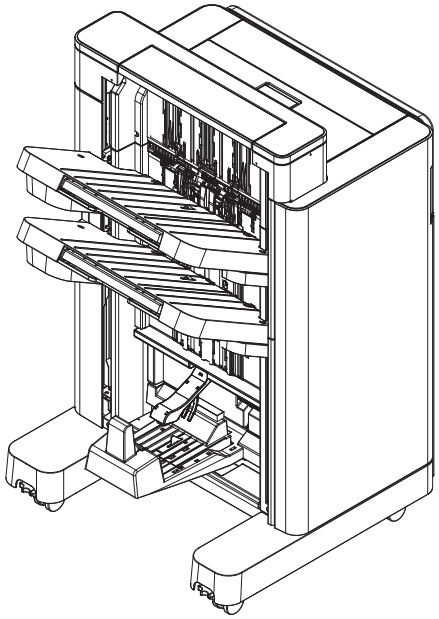
- Identify the finishing accessories
- Identifying finishing accessory covers and doors
- Shared finishing accessory assemblies
- Booklet maker accessory
- Booklet maker and stapler/stacker with hole punch accessories

Identify the finishing accessories

- Booklet maker (BM)

  Includes booklet maker and stapler functions.

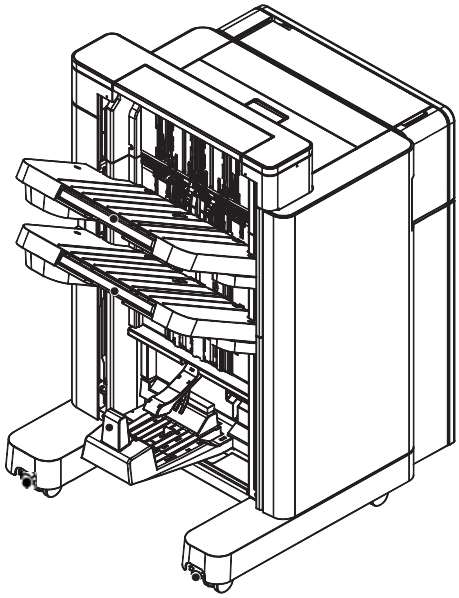
  Figure 1-675 Identify the BM finishing accessory

- Booklet maker with hole punch (BMHP)

  Includes booklet maker and hole punch (2/3 or 2/4) functions.

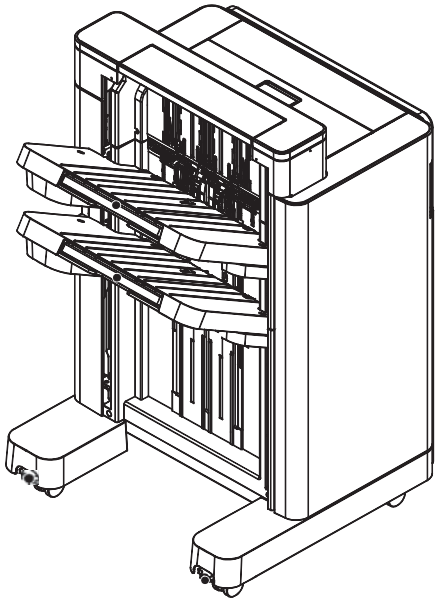
  Figure 1-676 Identify the BMHP finishing accessory

- Stapler/stacker (SS)

  Includes stapler functions.

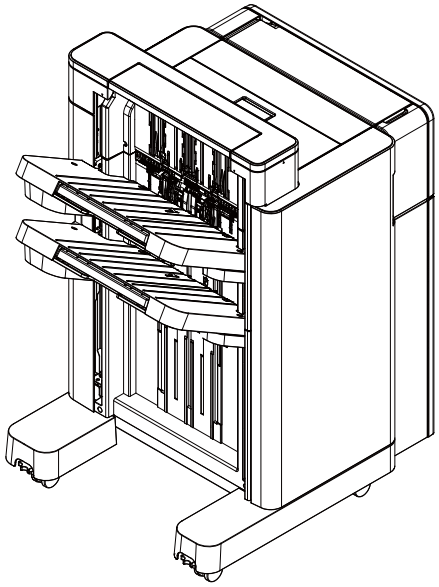
  Figure 1-677 Identify the SS finishing accessory

- Stapler/stacker with hole punch (SSHP)

  Includes stapler and hole punch (2/3 or 2/4) functions.

  Figure 1-678 Identify the SSHP finishing accessory

Identifying finishing accessory covers and doors

Figure 1-679 Stapler stacker covers and doors

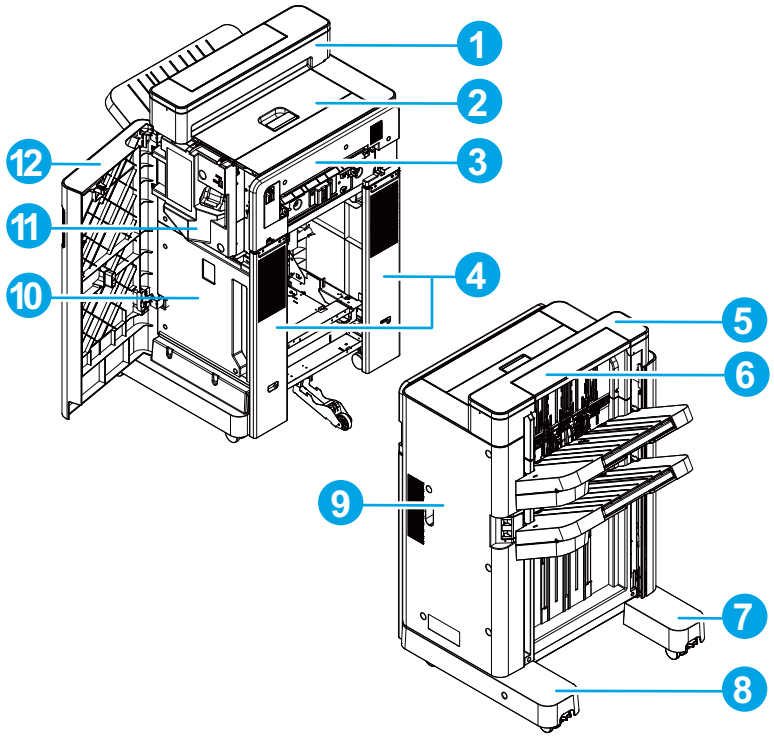


Table 1-24 Stapler stacker covers and doors

Item	Description	Item	Description
1	Step lower cover	7	Front foot cover
2	Top door assembly	8	Rear foot cover
3	Latch assembly	9	Rear cover
4	Latch lower cover	10	Inner lower cover
5	Step top cover	11	Inner upper cover assembly
6	Open-close step cover	12	Front door assembly

Figure 1-680 Stapler stacker with hole punch covers and doors

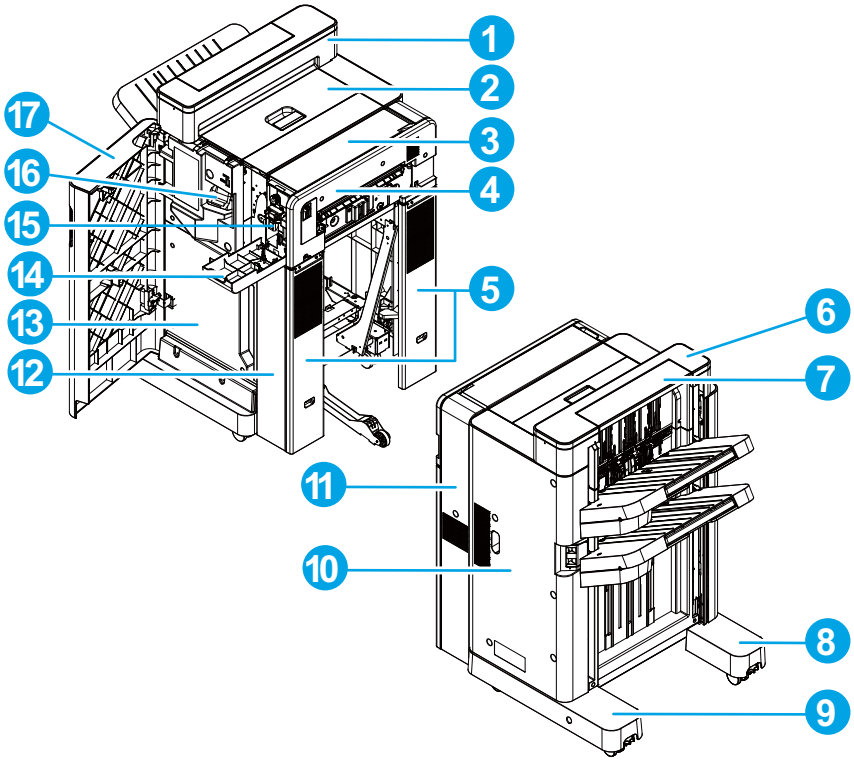


Table 1-25 Stapler stacker with hole punch covers and doors

Item	Description	Item	Description
1	Step lower cover	10	Rear cover
2	Top door assembly	11	Punch rear cover
3	Punch top cover	12	Punch lower cover
4	Latch assembly	13	Inner lower cover
5	Latch lower cover	14	Punch front cover
6	Step top cover	15	Punch inner cover
7	Open-close step cover	16	Inner upper cover assembly
8	Front foot cover	17	Front door assembly
9	Rear foot cover		

Figure 1-681 Booklet maker covers and doors

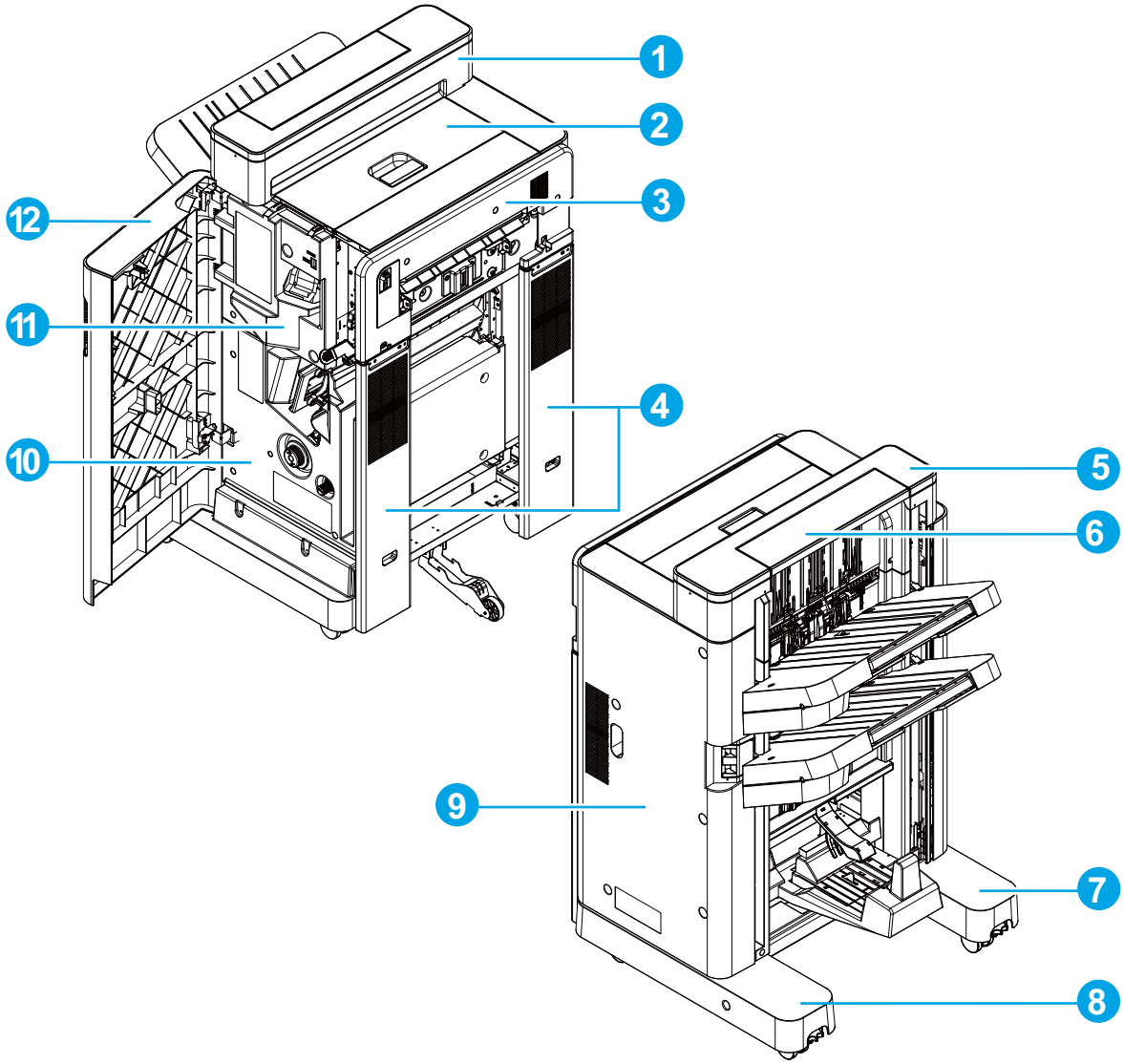


Table 1-26 Booklet maker covers and doors

Item	Description	Item	Description
1	Step lower cover	7	Front foot cover
2	Top door assembly	8	Rear foot cover
3	Latch assembly	9	Rear cover
4	Latch lower cover	10	Inner lower cover
5	Step top cover	11	Inner upper cover assembly
6	Open-close step cover	12	Front door assembly

Figure 1-682 Booklet maker with hole punch covers and doors

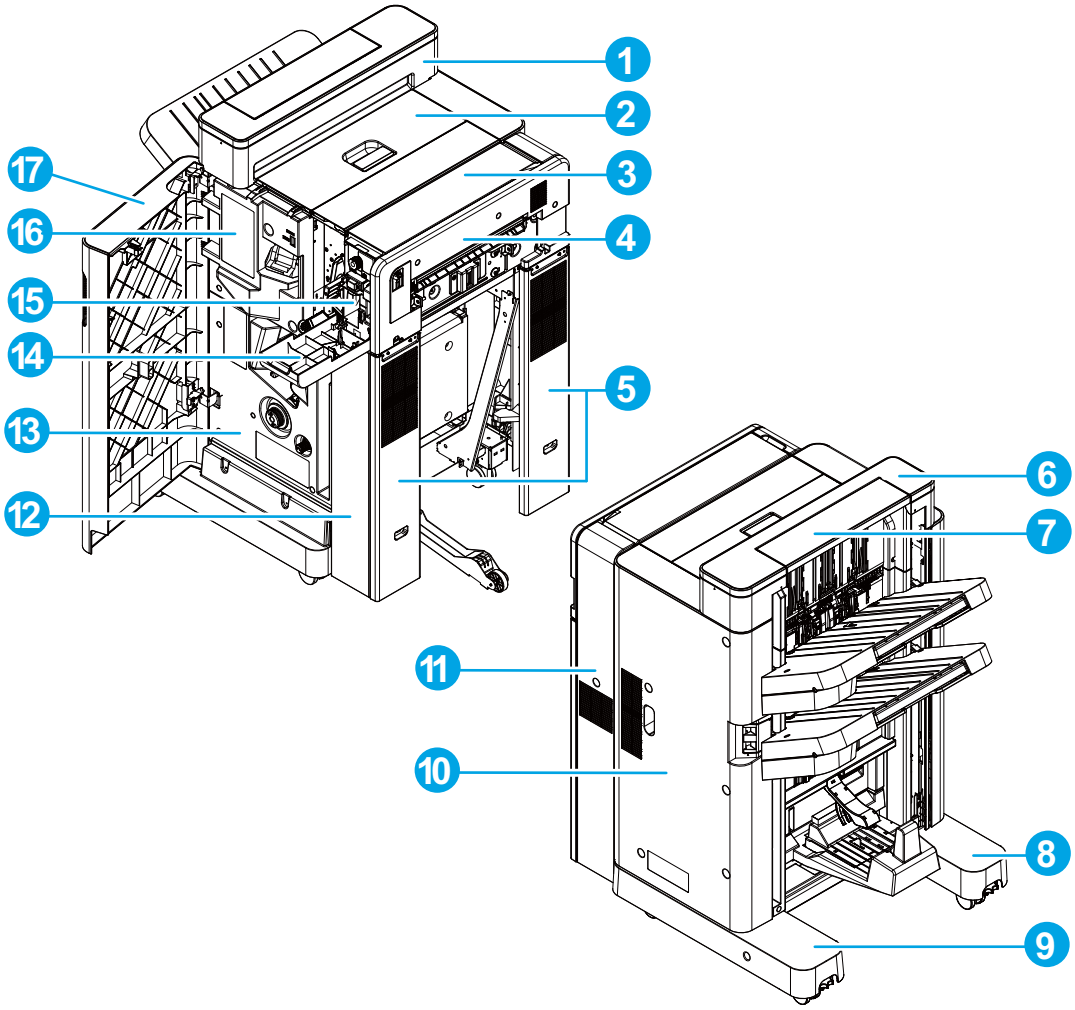


Table 1-27 Booklet maker with hole punch covers and doors

Item	Description	Item	Description
1	Step lower cover	10	Rear cover
2	Top door assembly	11	Punch rear cover
3	Punch top cover	12	Punch lower cover
4	Latch assembly	13	Inner lower cover
5	Latch lower cover	14	Punch front cover
6	Step top cover	15	Punch inner cover
7	Open-close step cover	16	Inner upper cover assembly
8	Front foot cover	17	Front door assembly
9	Rear foot cover		

Shared finishing accessory assemblies

The assemblies described in this section are found on each of the finishing accessories.

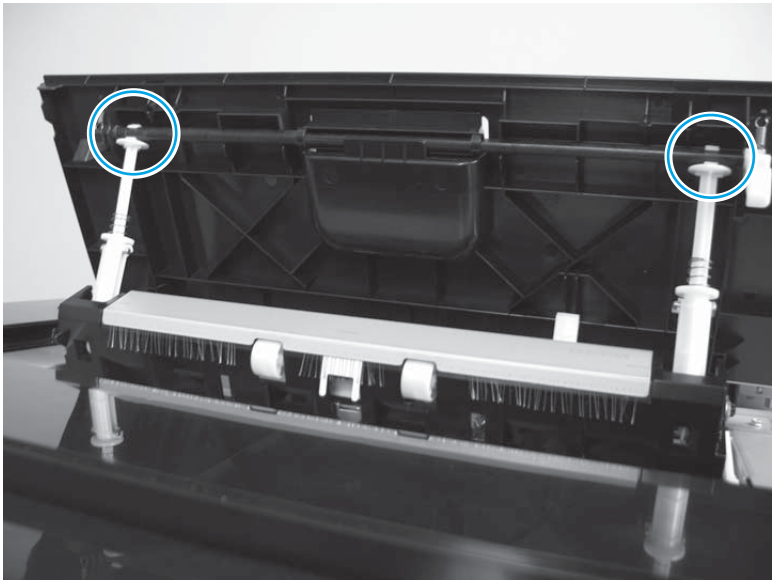
- Top cover lock assembly
- Latch lower covers (front and rear)
- Latch assembly
- Open/closed stepped cover assembly
- Upper stepped cover assembly
- Lower stepped cover assembly
- Top door assembly
- Front door
- Inner upper cover assembly
- Clutch assembly (front side)
- Sensor switch assembly
- Inner lower cover assembly
- Front foot cover assembly
- Bin cable guide cover
- Rear cover assembly
- Main controller PCA assembly
- Entrance upper guide assembly
- Rear foot cover assembly
- Stack wall upper assembly and upper wall guide assembly
- Upper cross member assembly
- Paper feed drive assembly
- Pressure roller assembly
- Stack upper bin and lower bin assemblies
- Height wall assembly
- Paper face sensor and flag assembly
- Staple subassembly
- Staple connecting cable assembly
- Staple assembly
- Paper detect holder assembly

- Operation tray assembly
- Swing guide assembly
- Return roller assembly
- Clutch assembly (rear side)
- Stack ejection motor assembly
- Press motor assembly
- Common driver PCA assembly
- Interface cable assembly
- Paper pass assembly

Top cover lock assembly

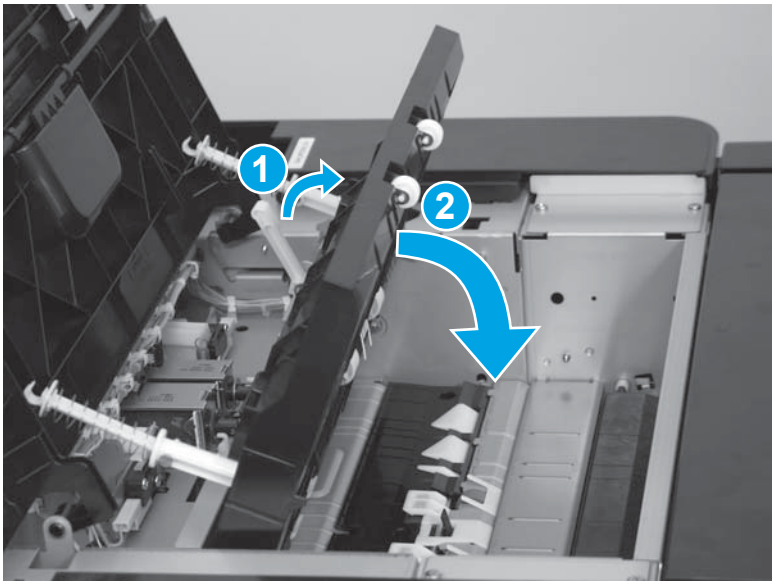
1. Open the top cover, carefully unsnap two spring loaded arms to release them from the latch shaft, and then move the cover out of the way.

Figure 1-683 Remove the top cover lock assembly (1 of 3)



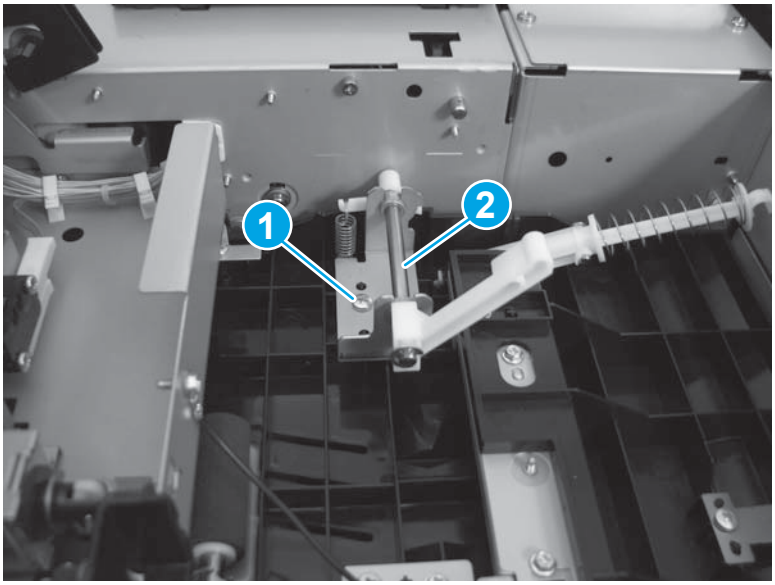
2. Move the upper cover out of the way, release one lever (callout 1) which holds the entrance upper guide assembly in the open position, and then lower the guide assembly (callout 2) into the accessory.

Figure 1-684 Remove the top cover lock assembly (2 of 3)



3. Remove one screw (callout 1), and then remove the upper cover lock assembly (callout 2).

Figure 1-685 Remove the top cover lock assembly (3 of 3)

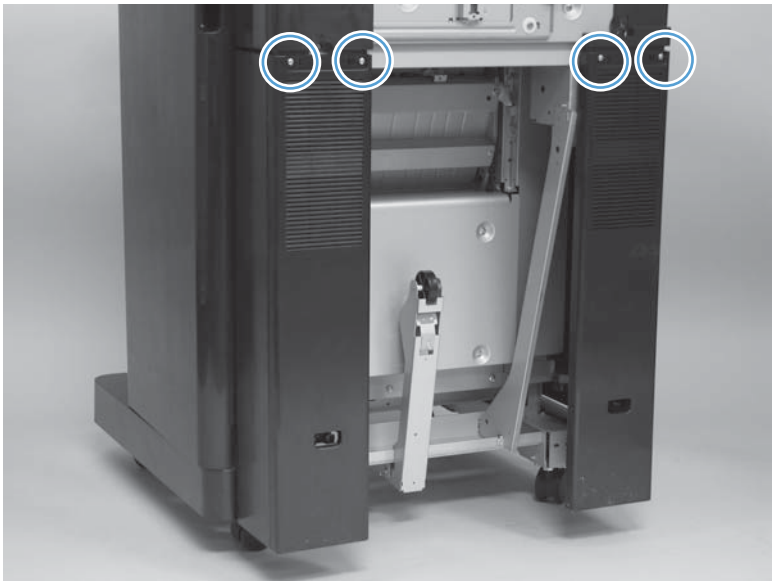


Latch lower covers (front and rear)

NOTE: The cover shown in the following procedure is installed on a booklet maker with hole punch (BMHP) accessory, however the procedure is the same for all of the finishing accessories.

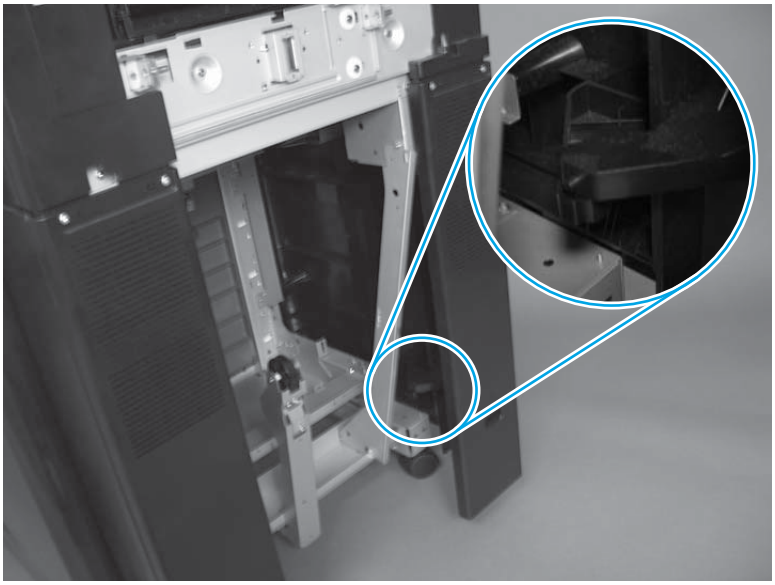
1. Remove four screws.

Figure 1-686 Remove the latch lower covers (front and rear; 1 of 3)



2. Before proceeding, take note of the two locator pins on the back side of each cover. These are positioning pins and must be correctly installed to assure proper alignment of the covers when they are reinstalled.

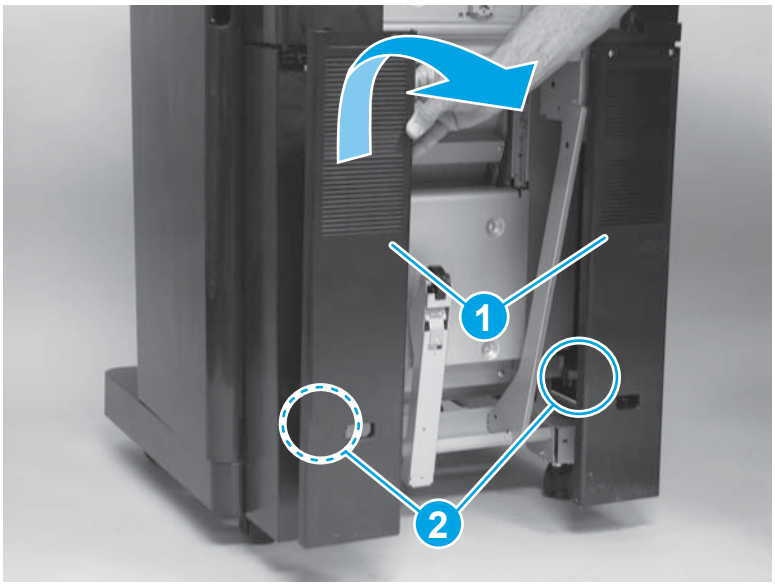
Figure 1-687 Remove the latch lower covers (front and rear; 2 of 3)



3. Remove the covers (callout 1) by moving the top of the cover outward to release the positioning pins (callout 2).

TIP: As the cover is removed, you might need to reach behind the cover to release the two locator pins on the back side of the cover.

Figure 1-688 Remove the latch lower covers (front and rear; 3 of 3)



Latch assembly

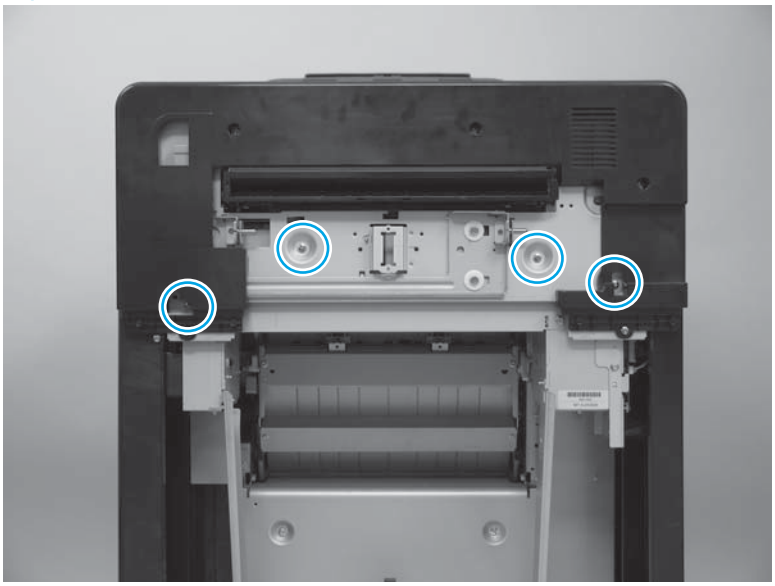
Before proceeding, remove the following assemblies:

- Latch lower covers (front and rear). See Latch lower covers (front and rear) on page 468.

Remove the latch assembly

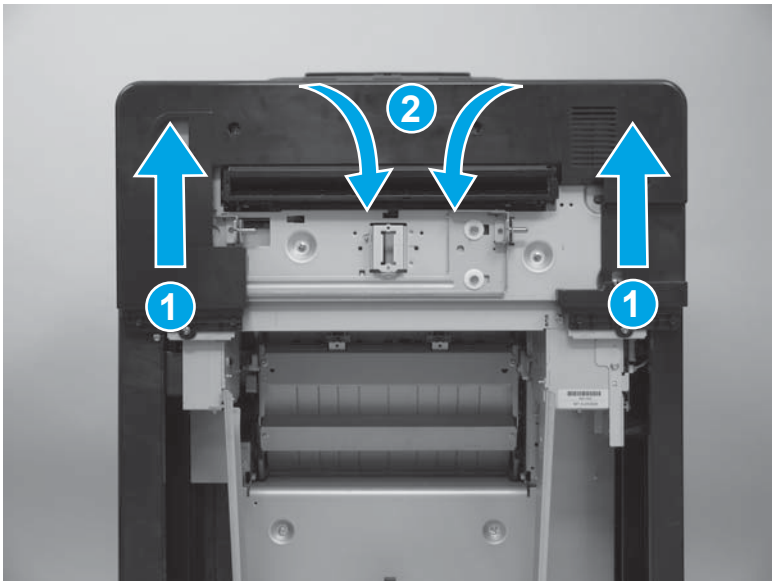
1. Remove four screws.

Figure 1-689 Remove the latch assembly (1 of 2)



2. Lift the assembly straight up to release it (callout 1), and then rotate the assembly away from the paper path entrance (callout 2) to remove it.

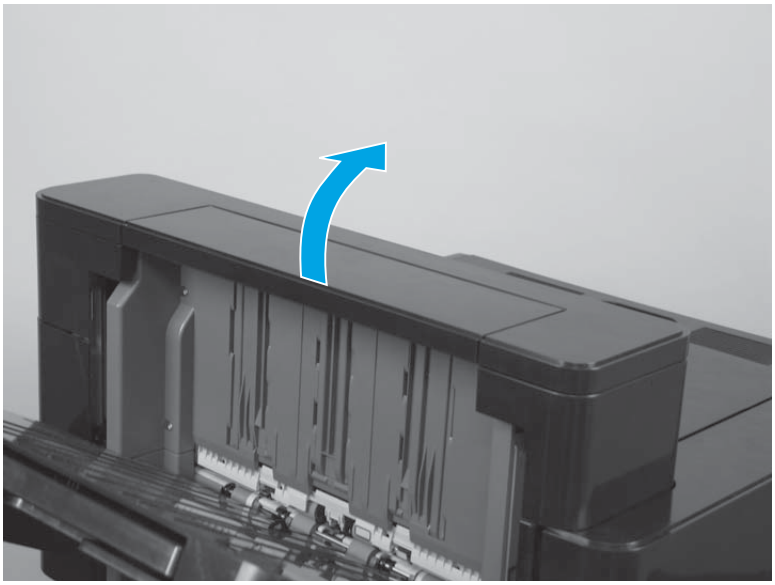
Figure 1-690 Remove the latch assembly (2 of 2)



Open/closed stepped cover assembly

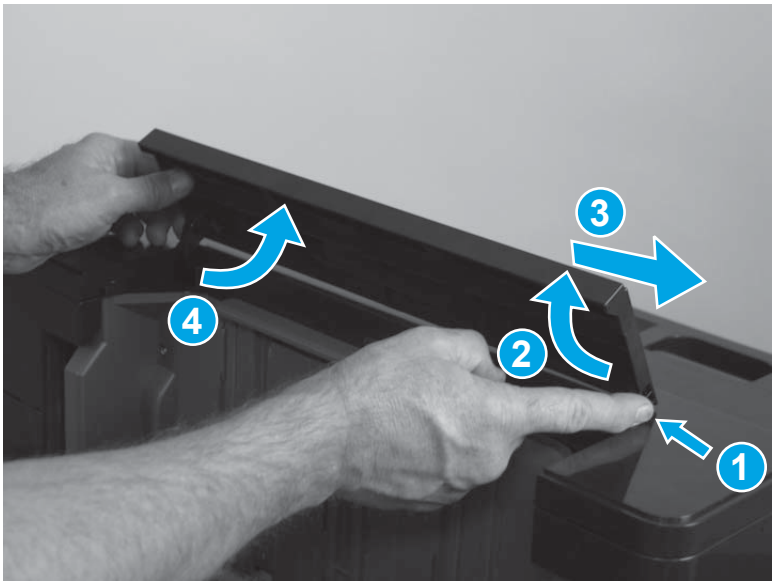
1. Open the cover.

Figure 1-691 Remove the open/close stepped cover assembly (1 of 2)



2. Carefully push in on the cover hinge (callout 1) to release the hinge pin, lift the rear edge of the cover out and up (callout 2), and then slide the cover to the right (callout 3). Unlatch the left hinge of cover by swinging it out and up to remove cover (callout 4).

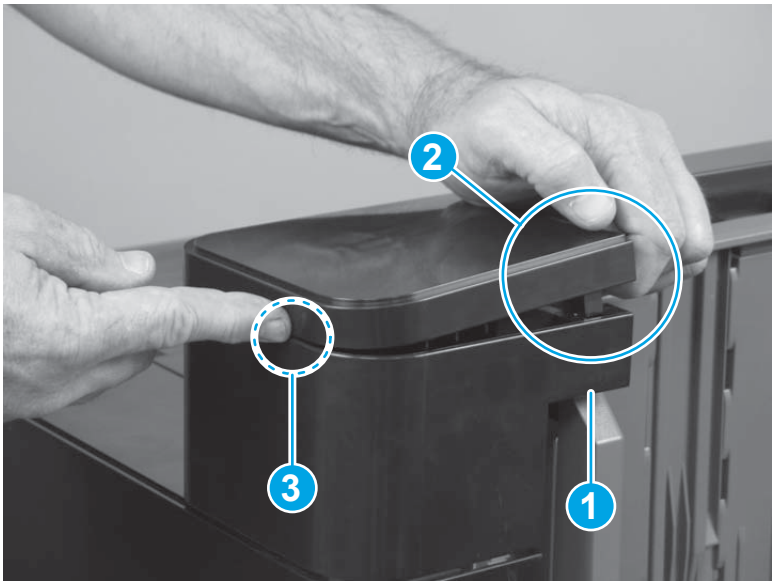
Figure 1-692 Remove the open/close stepped cover assembly (2 of 2)



Upper stepped cover assembly

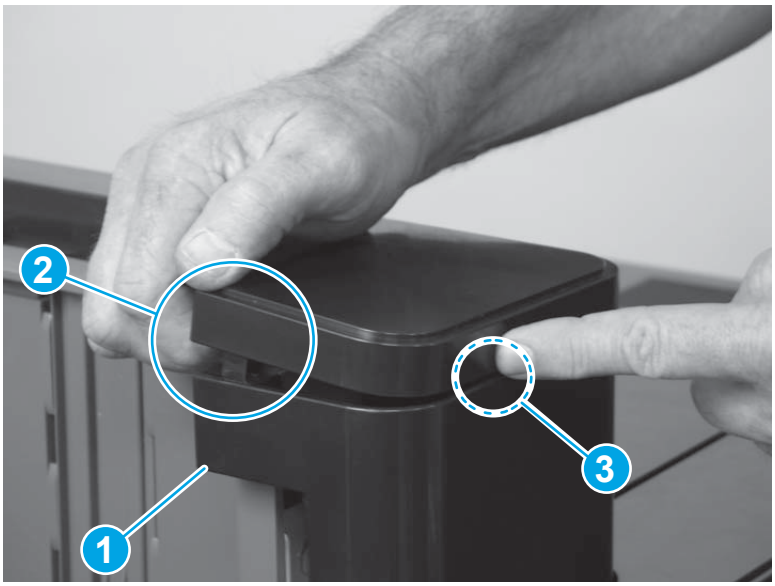
1. Use your finger to release one tab (callout 1), carefully pull up on the corner of the cover (callout 2), and then push in on the cover to release a second tab (callout 3).

Figure 1-693 Remove the upper stepped cover assembly (1 of 4)



2. Use your finger to release one tab (callout 1), carefully pull up on the opposite corner of the cover (callout 2), and then push in on the cover to release a second tab (callout 3).

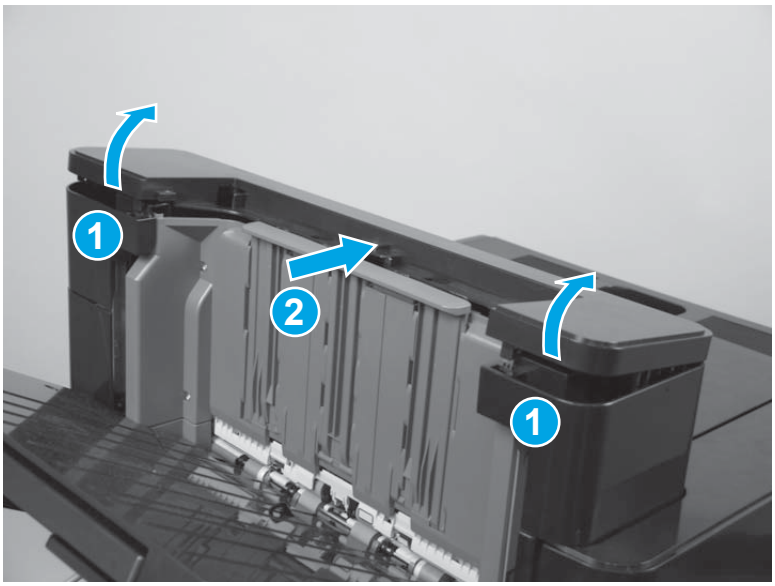
Figure 1-694 Remove the upper stepped cover assembly (2 of 4)



3. Rotate the edge of the cover nearest the stack bins (callout 1) up and away from the accessory.

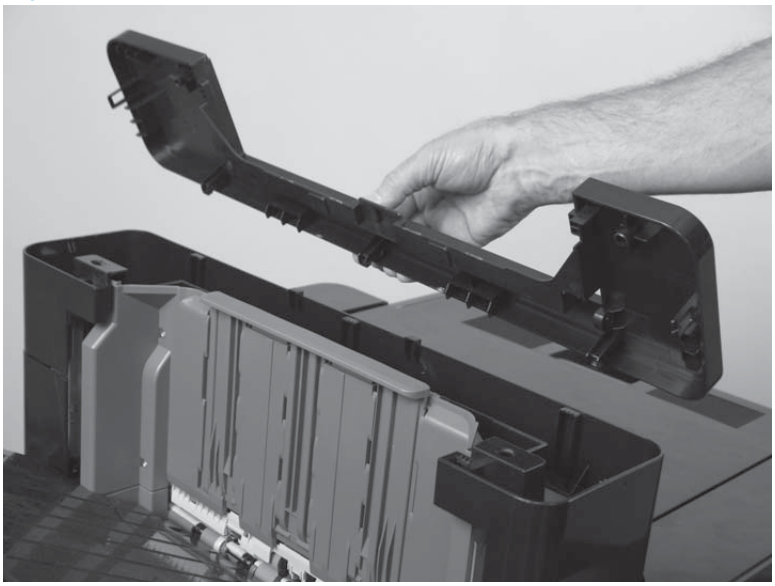
TIP: As you rotate the cover up, push in on the center of the cover (callout 2) to make it easier to remove.

Figure 1-695 Remove the upper stepped cover assembly (3 of 4)



4. Remove the cover.

Figure 1-696 Remove the upper stepped cover assembly (4 of 4)



Lower stepped cover assembly

Before proceeding, remove the following assemblies:

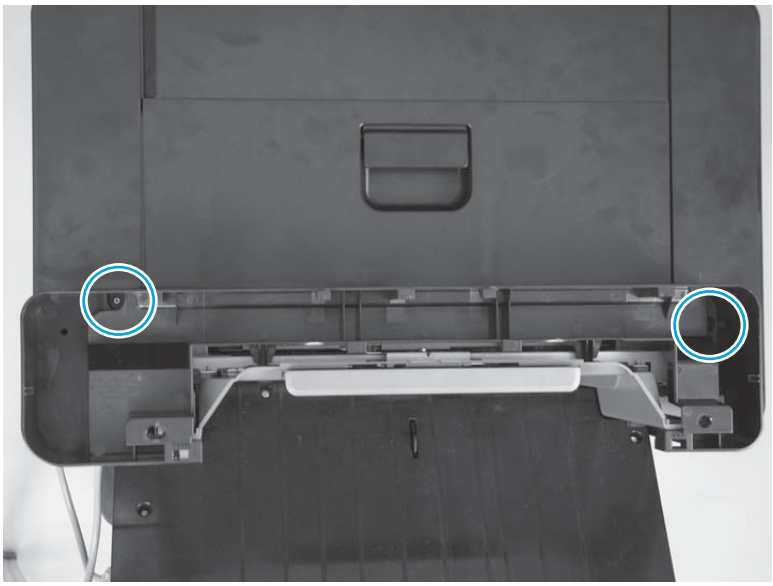
- Open/closed stepped cover assembly. See Open/closed stepped cover assembly on page 471.
- Upper stepped cover assembly. See Upper stepped cover assembly on page 472.

Remove the lower stepped cover assembly

1. Remove two screws.

NOTE: From the top of the accessory, look down into the lower stepped cover to locate these screws.

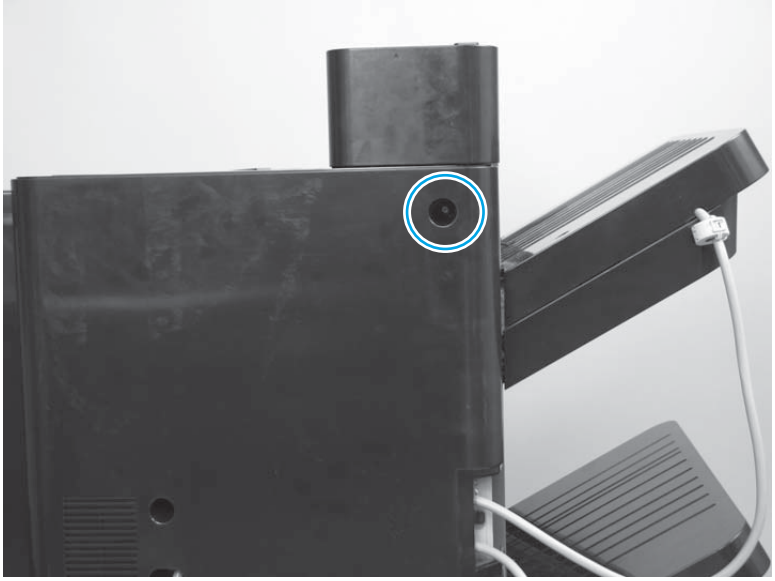
Figure 1-697 Remove the lower stepped cover assembly (1 of 5)



2. Remove one screw (callout 1) from the rear cover.

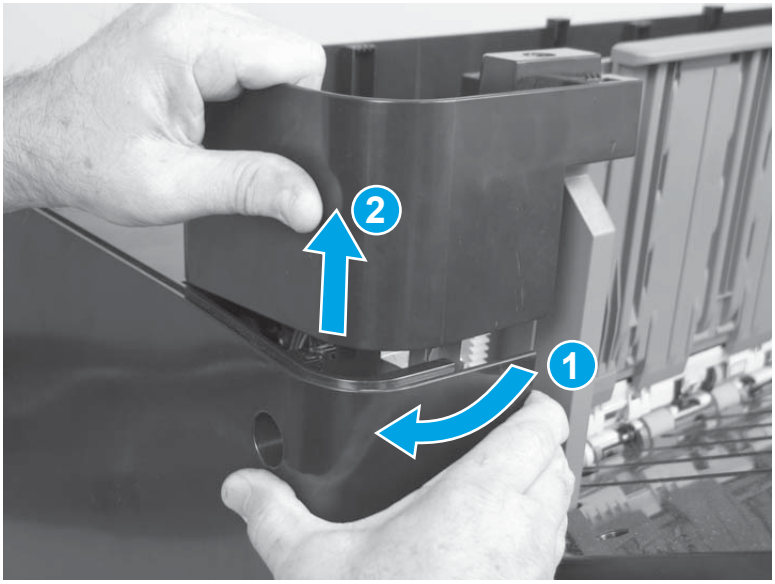
TIP: Removing this screw is necessary to release the rear cover from the lower stepped cover when it is removed.

Figure 1-698 Remove the lower stepped cover assembly (2 of 5)



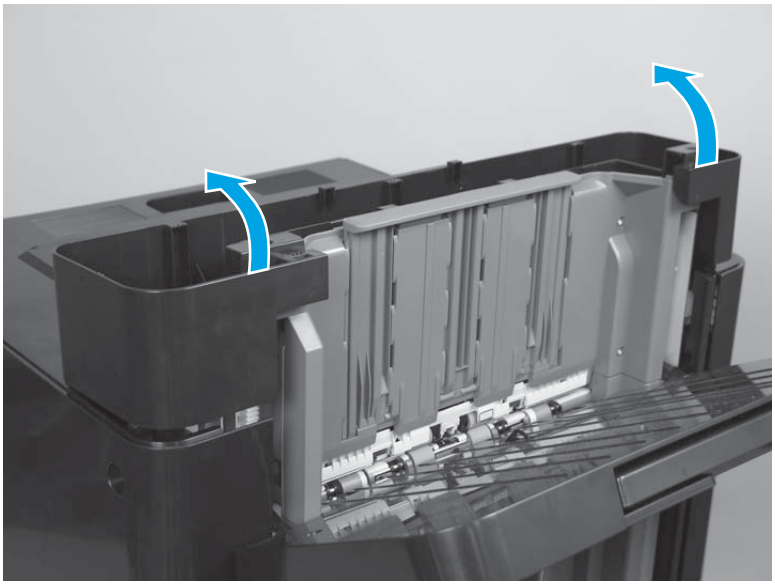
3. Carefully flex the corner of the rear cover away from the accessory (callout 1), and then slightly lift up and push in (callout 2) on the lower stepped cover to release one tab.

Figure 1-699 Remove the lower stepped cover assembly (3 of 5)



4. Rotate the edge of the cover nearest the stack bins up and away from the accessory.

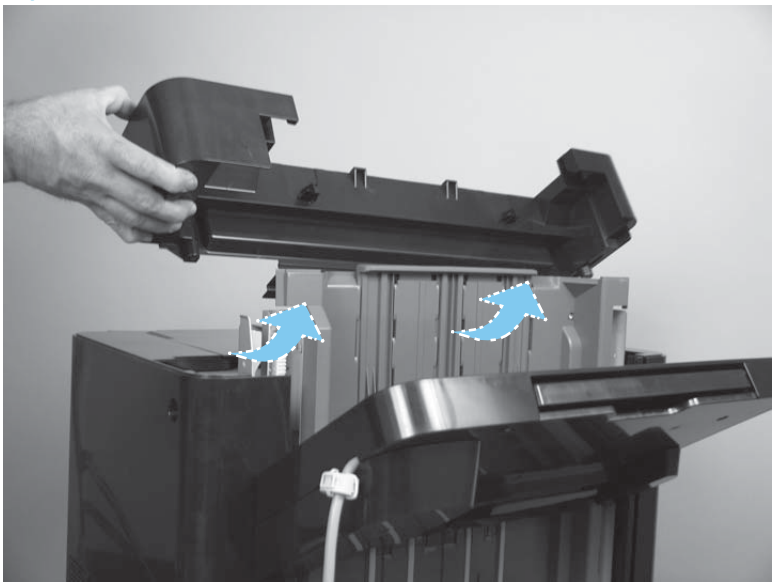
Figure 1-700 Remove the lower stepped cover assembly (4 of 5)



5. Remove the cover.

TIP: Lift and rotate the cover as shown below so that the cover will slide out from under the top door.

Figure 1-701 Remove the lower stepped cover assembly (5 of 5)



Reinstall the lower stepped cover

When the cover is reinstalled, open the top cover and make sure that the slots in the cover are underneath the sheet-metal tabs on the chassis.

Figure 1-702 Reinstall the lower stepped cover (1 of 2)

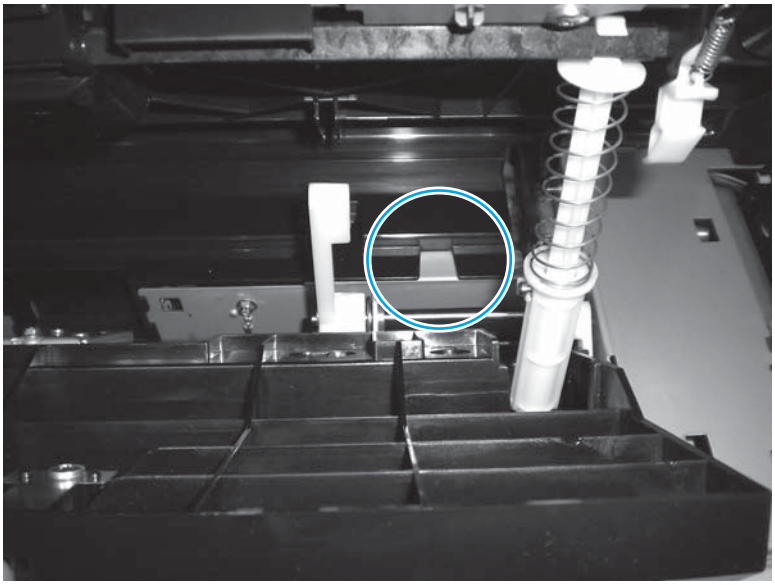
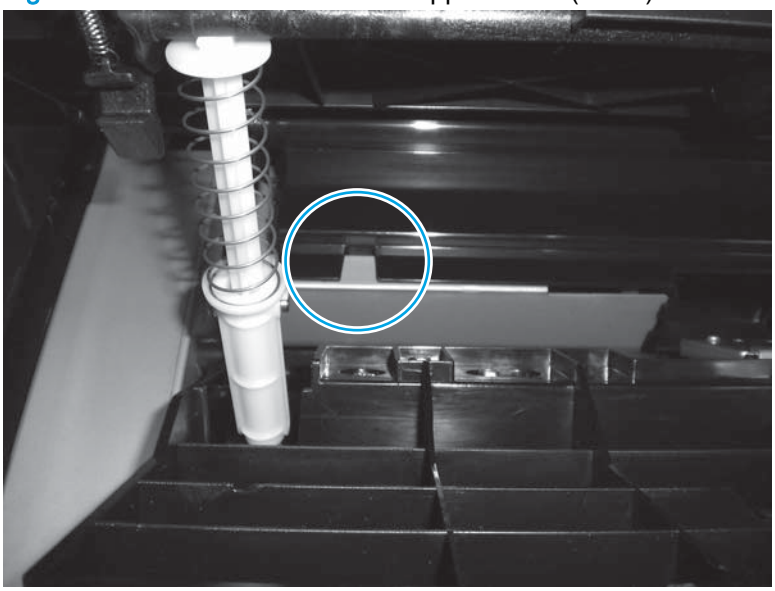


Figure 1-703 Reinstall the lower stepped cover (2 of 2)

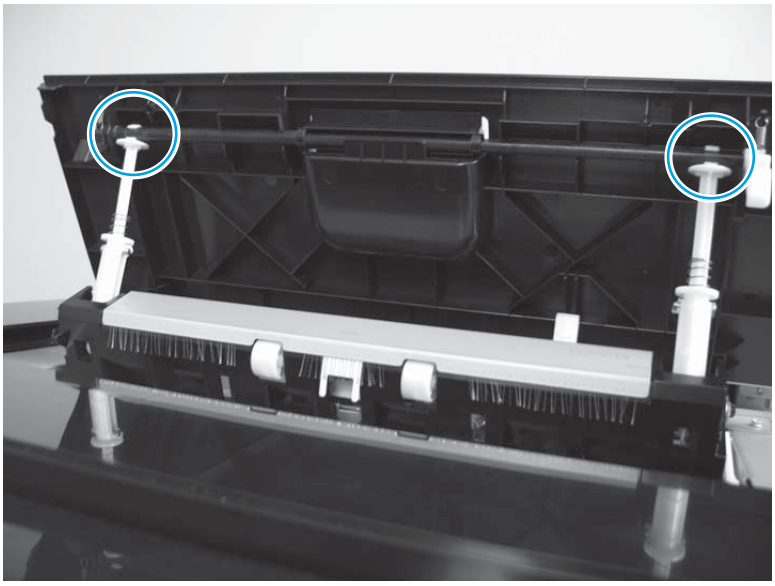


Top door assembly

NOTE: The following figures show the top door assembly on the stapler/stacker with hole punch (SSHP) finishing accessory. This removal procedure is the same for all of the finishing accessories.

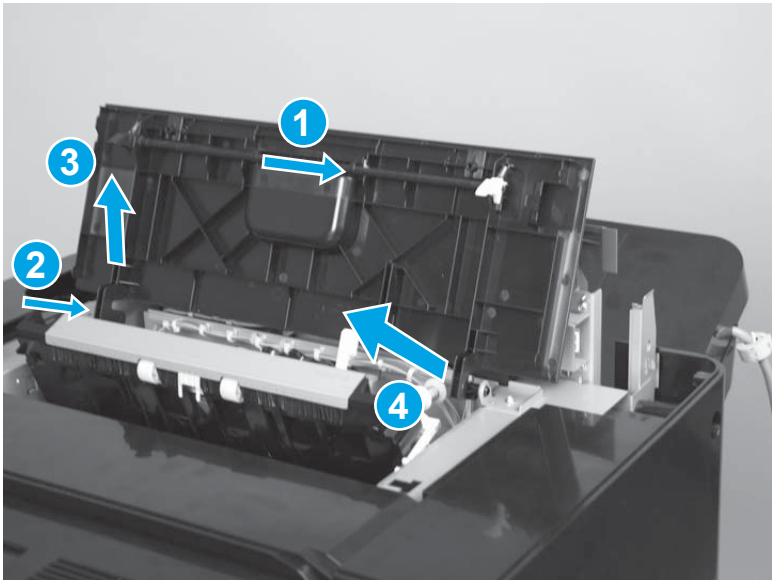
1. Open the door, and then carefully unsnap two spring loaded arms to release them from the latch shaft.

Figure 1-704 Remove the top door assembly (1 of 2)



2. From the front of the finisher, slide the top door slightly towards the rear of the accessory until it stops (callout 1). Carefully press in on the front hinge to release the hinge from the bracket (callout 2), and then lift it out of the bracket (callout 3). Slide the top of the door towards the front of the accessory to release the rear hinge (callout 4) from the rear bracket to remove the door.

Figure 1-705 Remove the top door assembly (2 of 2)



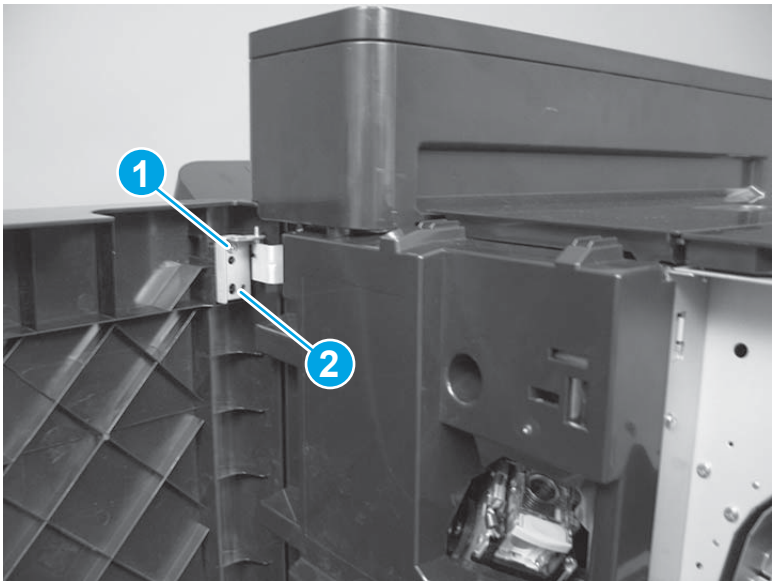
Front door

Remove the front door

1. Open the front door.
2. Support the door, and then remove one self tapping screw (callout 1) and the sheet-metal hinge (callout 2).

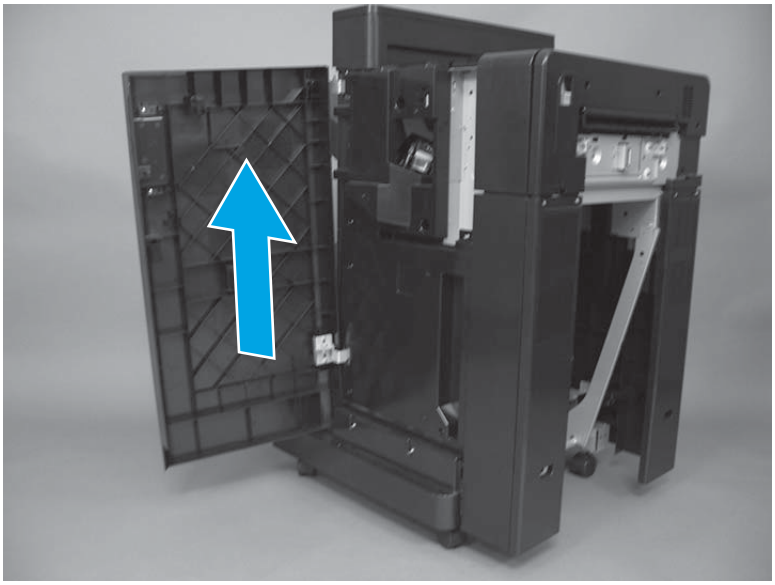
TIP: To reinstall the self-tapping screw, first turn it counterclockwise (1/4 turn) to align it with the existing thread pattern, and then carefully turn it clockwise to tighten. Do not overtighten.

Figure 1-706 Remove the front door (1 of 2)



3. With the door slightly angled away from the accessory so that it will not interfere with other accessory covers, lift the door up and off of the bottom hinge to remove it.

Figure 1-707 Remove the front door (2 of 2)

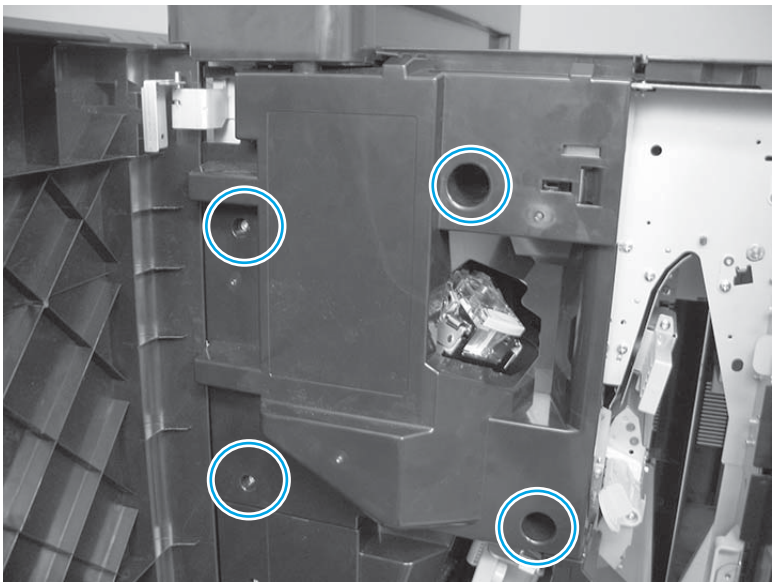


Inner upper cover assembly

TIP: If the cover needs to be moved out of the way to gain access to assemblies immediately behind the cover, use the following procedure. If the cover needs to be removed to service other assemblies on the accessory, go to Inner upper cover assembly (remove) on page 481.

1. Open the front door.
2. Remove four screws.

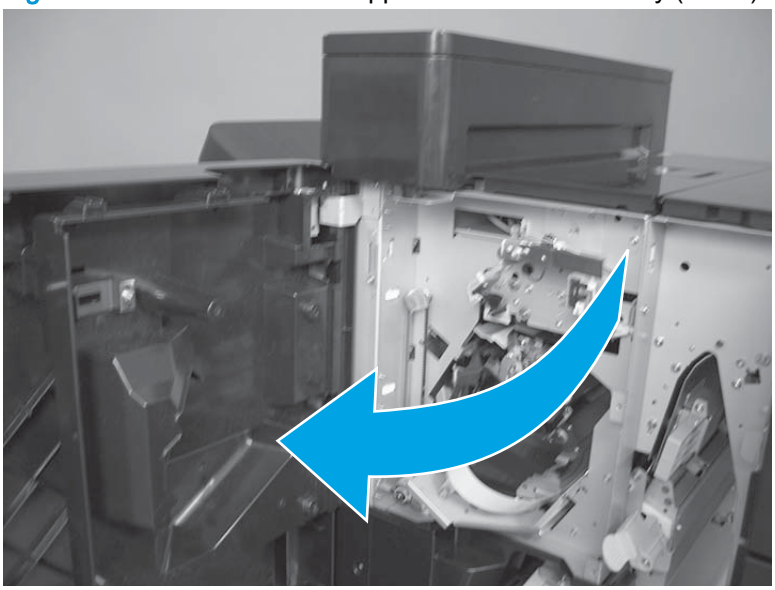
Figure 1-708 Move the inner upper cover out of the way (1 of 2)



3. Rotate the cover towards the front door to move it out of the way.

CAUTION: To prevent damage to the cover, make sure that it does not bind on the upper front door hinge when you move it out of the way.

Figure 1-709 Move the inner upper cover out of the way (2 of 2)



Inner upper cover assembly (remove)

Before proceeding, remove the following assemblies:

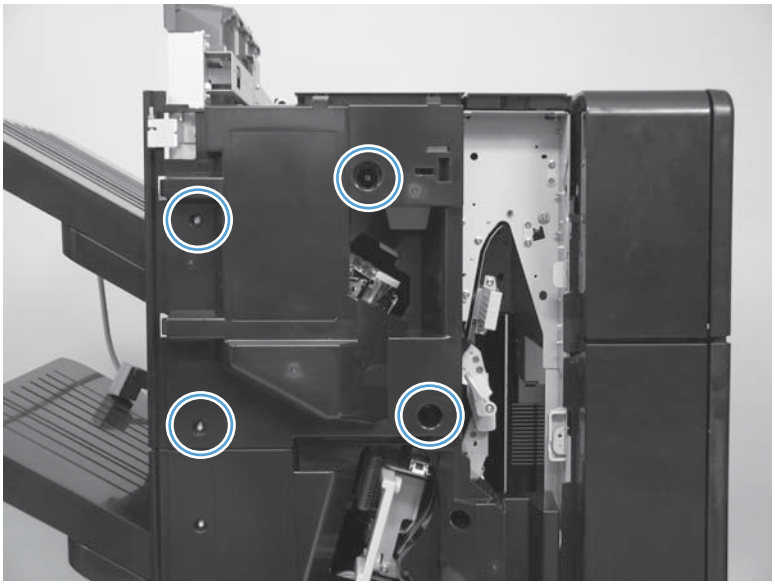
- Front door. See Front door on page 479.

Remove the inner upper cover assembly

The figures in this section show the stepped covers removed. You do not need to remove the stepped covers to remove the inner upper cover assembly.

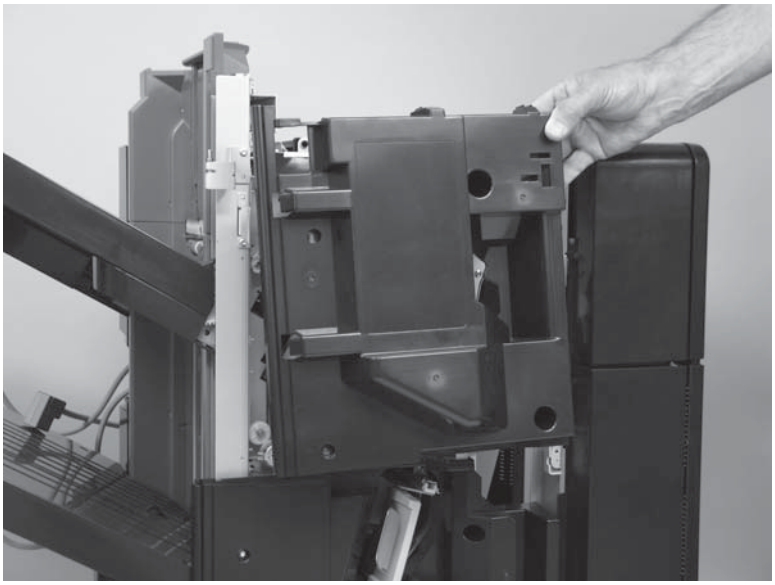
1. Remove four screws.

Figure 1-710 Remove the inner upper cover assembly (1 of 2)



2. Remove the cover.

Figure 1-711 Remove the inner upper cover assembly (2 of 2)



Clutch assembly (front side)

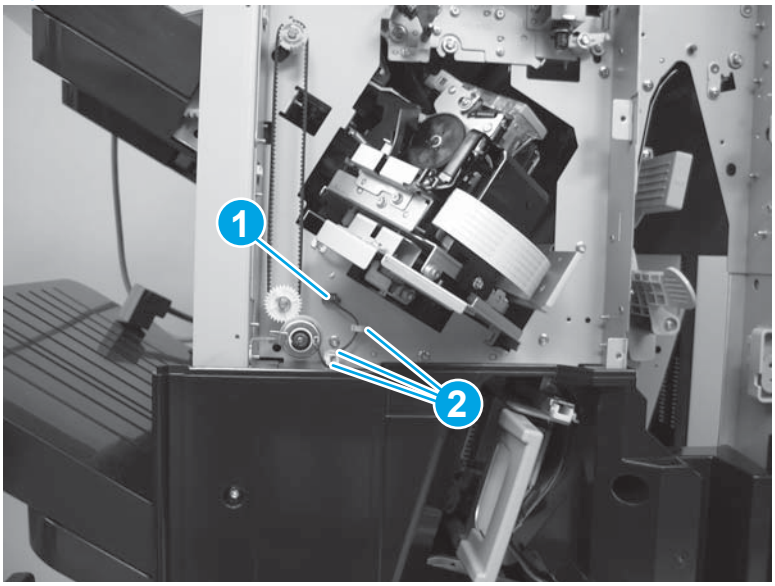
Before proceeding, do the following:

- Move the inner upper cover assembly. See Inner upper cover assembly on page 480.

Remove the clutch assembly (front side)

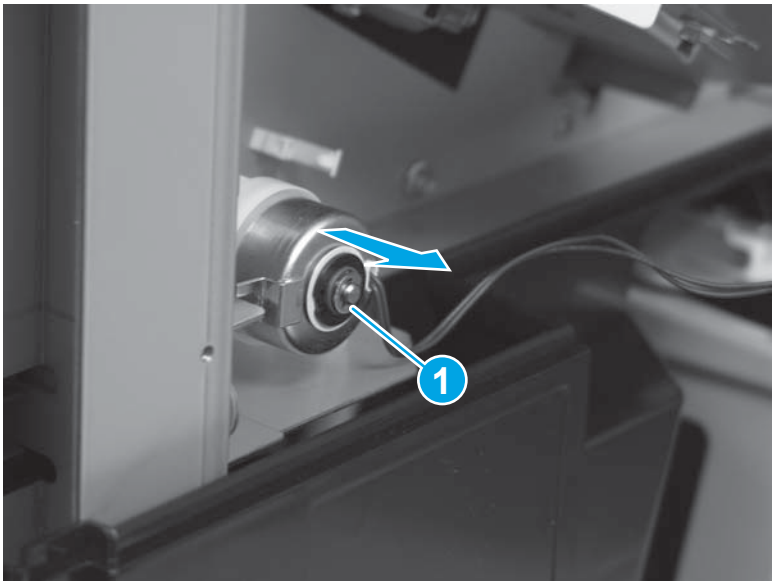
1. Disconnect one connector (callout 1), and then release the wire harness from three retainers (callout 2).

   Figure 1-712 Remove the clutch assembly (front side; 1 of 2)

2. Remove one e-ring (callout 1), and then slide the clutch off of the shaft to remove it.

   Figure 1-713 Remove the clutch assembly (front side; 2 of 2)

Sensor switch assembly

Before proceeding, do the following:

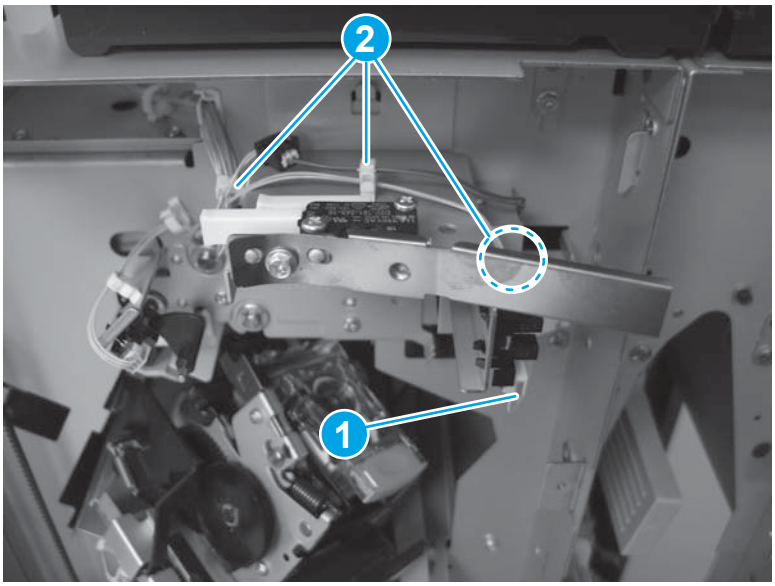
- Move the inner upper cover assembly. See Inner upper cover assembly on page 480.

Remove the sensor switch assembly

⚠ **WARNING!** Make sure that the accessory interface cable is disconnected from the product. Line voltage exists at the switch when the accessory interface cable is connected to the product—even if the product is power is turned off.

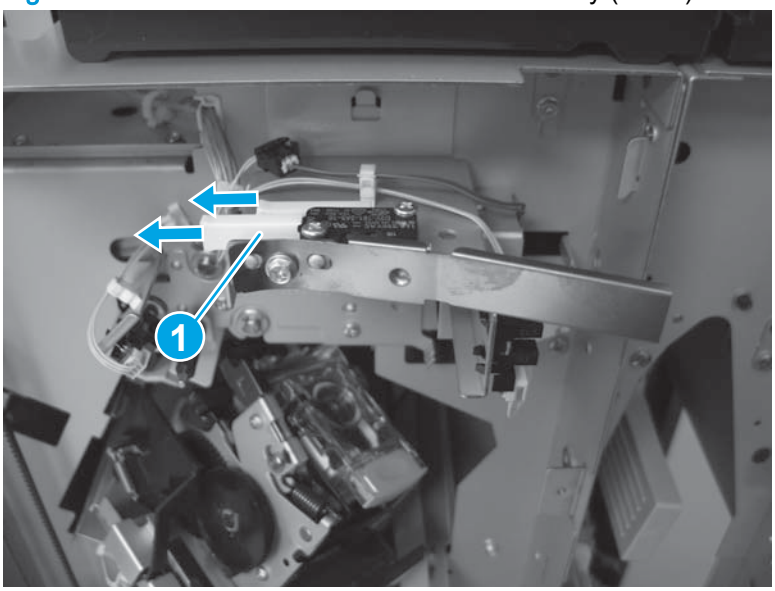
1. Disconnect one connector (callout 1), and then release the wire harnesses from three retainers (callout 2).

Figure 1-714 Remove the sensor switch assembly (1 of 4)



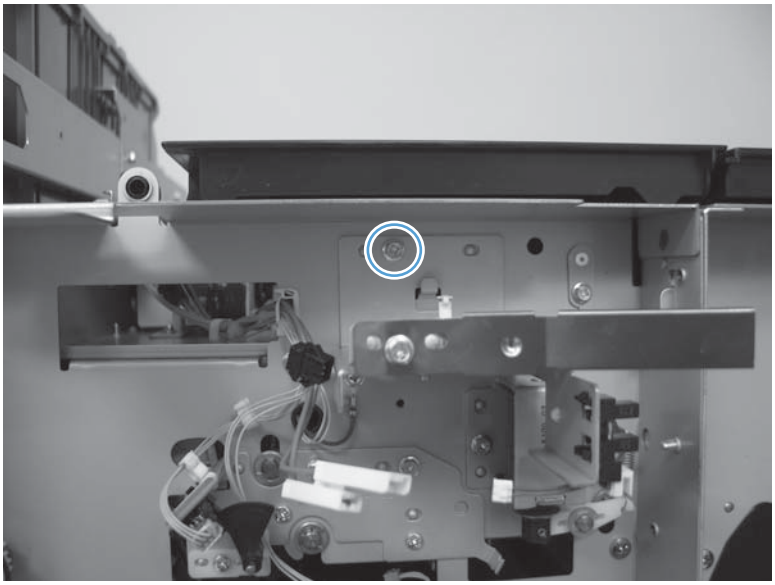
2. Use a small flat-blade screwdriver to disconnect one connector (callout 1).

Figure 1-715 Remove the sensor switch assembly (2 of 4)



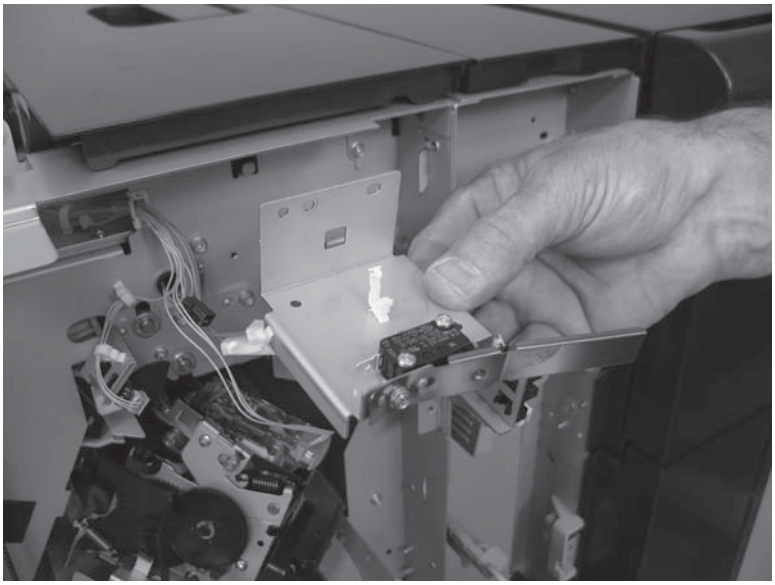
3. Remove one screw.

Figure 1-716 Remove the sensor switch assembly (3 of 4)



4. Remove the assembly.

Figure 1-717 Remove the sensor switch assembly (4 of 4)



Inner lower cover assembly

TIP: If the cover needs to be moved out of the way to gain access to assemblies immediately behind the cover, use the following procedure. If the cover needs to be removed to service other assemblies on the accessory, go to Inner lower cover assembly (remove) on page 488.

1. Open the front door.
2. Move the inner upper cover out of the way. See Inner upper cover assembly on page 480.
3. Do one of the following:
   - **Booklet maker (BM) and booklet maker with hole punch (BMHP)**: Remove four screws.

     Figure 1-718 Move the inner lower cover out of the way (1 of 4)

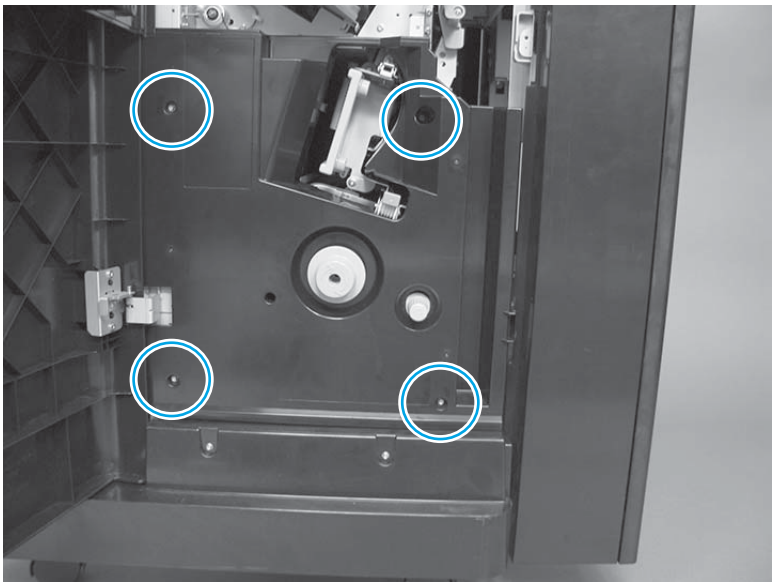
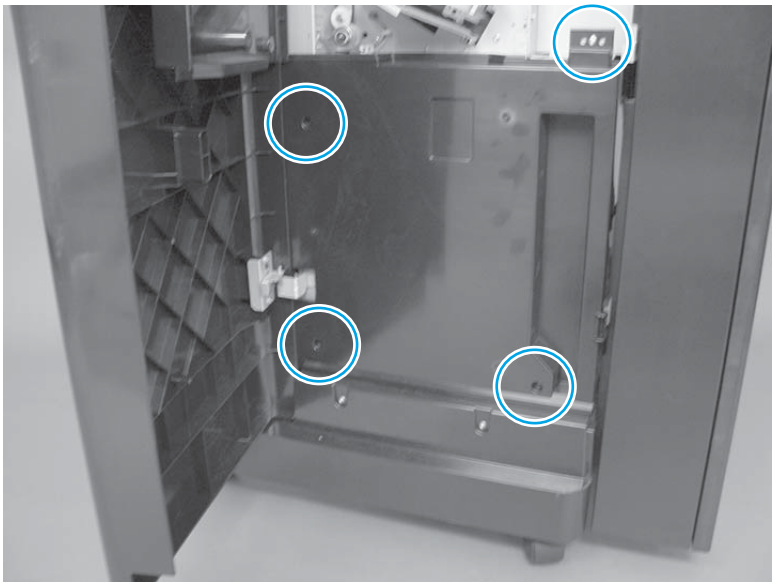
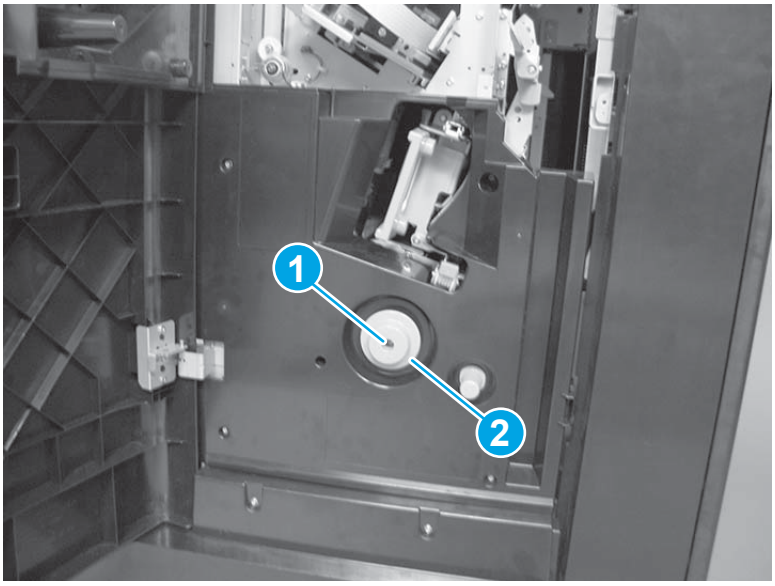
     
   - **Stapler/stacker (SS) and stapler/stacker with hole punch (SSHP)**: Remove four screws.

     Figure 1-719 Move the inner lower cover out of the way (2 of 4)

4. **Booklet maker (BM) and booklet maker with hole punch (BMHP) only**: Remove one screw (callout 1), and then remove the green knob (callout 2).

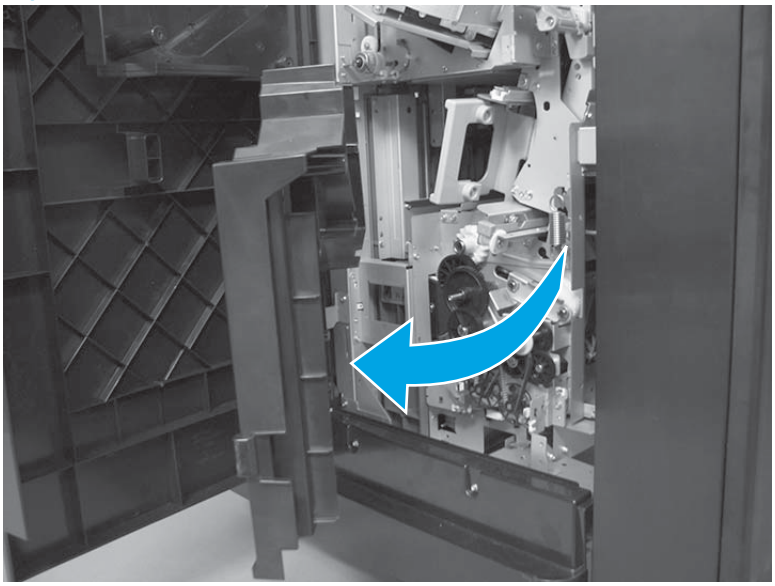
Figure 1-720 Move the inner lower cover out of the way (3 of 4)



5. Slide the cover toward the front door so that it will not interfere with the inner upper cover, and then rotate the cover towards the front door to move it out of the way.

⚠ CAUTION: To prevent damage to the cover, make sure that it does not bind on the upper front door hinge when you move it out of the way.

Figure 1-721 Move the inner lower cover out of the way (4 of 4)



Inner lower cover assembly (remove)

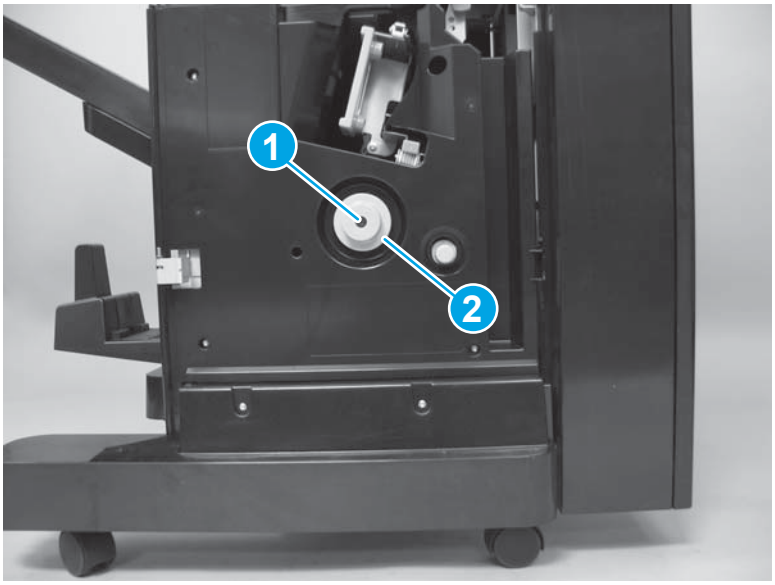
Before proceeding, remove the following assemblies:

- Front door. See Front door on page 479.
- Inner upper cover assembly. See Inner upper cover assembly on page 480.

Remove the inner lower cover assembly

1. **Booklet maker (BM) and booklet maker with hole punch (BMHP) only**: Remove one screw (callout 1), and then remove the green knob (callout 2).

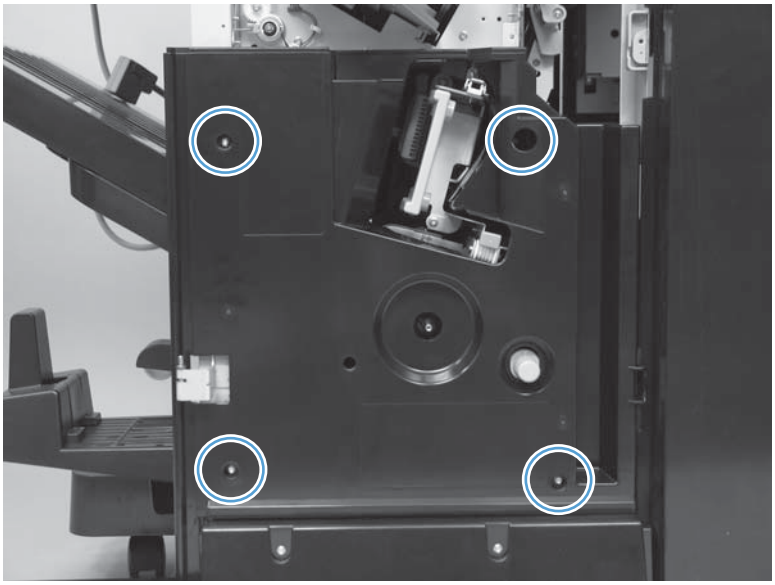
   Figure 1-722 Remove the inner lower cover assembly (1 of 4)

2. Do one of the following:

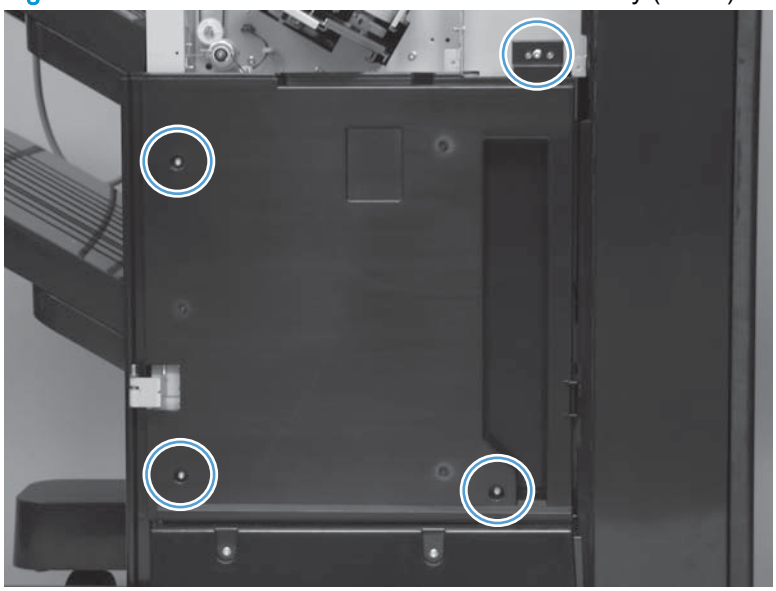
   - **Booklet maker (BM) and booklet maker with hole punch (BMHP)**: Remove four screws.

     Figure 1-723 Remove the inner lower cover assembly (2 of 4)

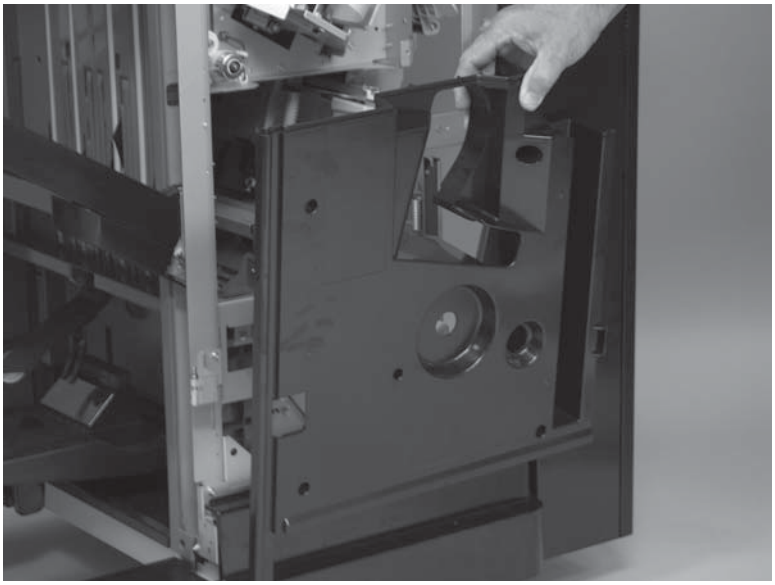
- **Stapler/stacker (SS) and stapler/stacker with hole punch (SSHP)**: Remove four screws.

Figure 1-724 Remove the inner lower cover assembly (2 of 4)



3. Remove the cover.

Figure 1-725 Remove the inner lower cover assembly (4 of 4)



Front foot cover assembly

NOTE: The cover shown in the following procedure is installed on a booklet maker with hole punch (BMHP) accessory, however the procedure is the same for all of the finishing accessories.

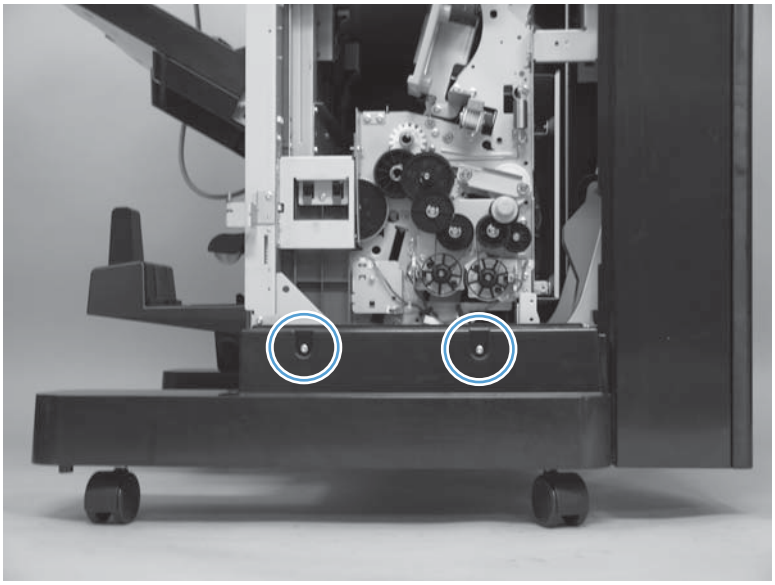
Before proceeding, remove the following assemblies:

- Front door. See Front door on page 479.
- Inner upper cover assembly. See Inner upper cover assembly on page 480.
- Inner lower cover assembly. See Inner lower cover assembly on page 486.

Remove the front foot cover assembly

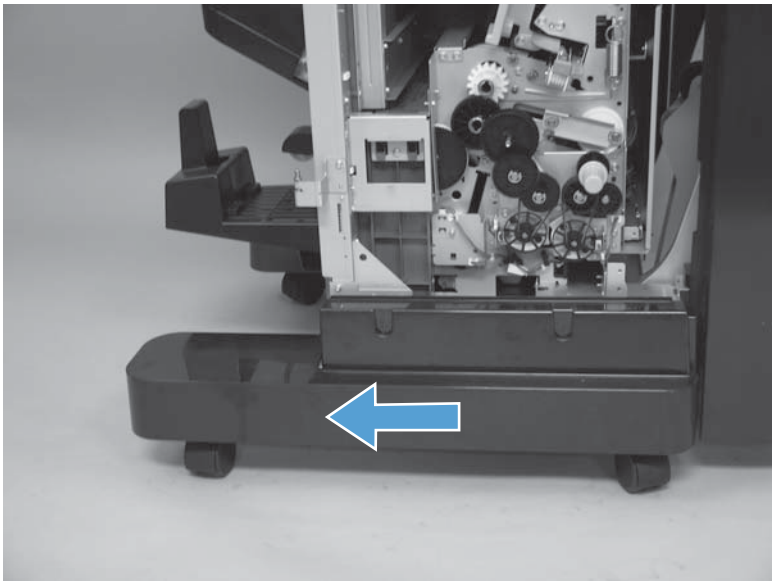
1. Remove two screws.

Figure 1-726 Remove the front foot cover assembly (1 of 2)



2. Slightly slide the cover to the left to release it, and then remove the cover.

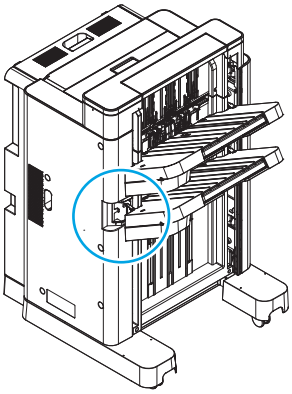
Figure 1-727 Remove the front foot cover assembly (2 of 2)



Bin cable guide cover

1. Use the figure below to locate the bin cable guide cover.

Figure 1-728 Remove the bin cable guide cover (1 of 6)



2. If the upper or lower stack bin prevents access to this cover, do the following:

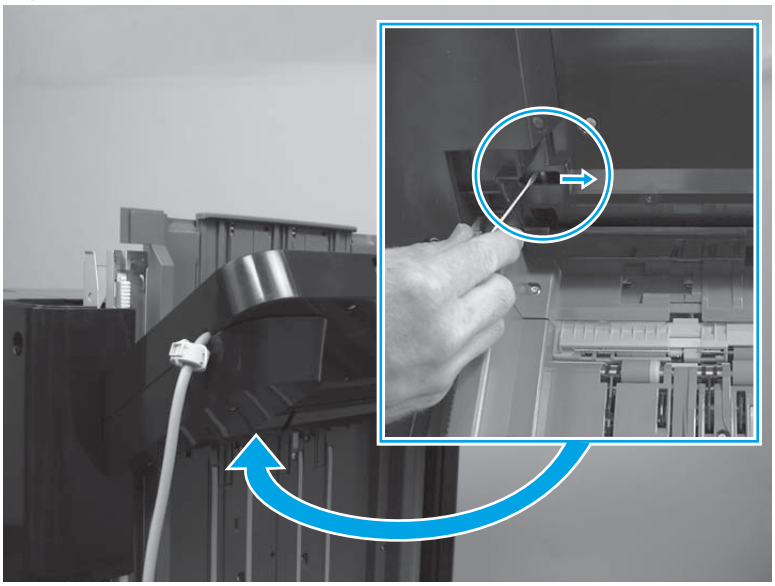
TIP: Push up on the bin to move it toward the top of the accessory. To move the bin down, use the following procedure to release the clutch.

a. Support the bin.

b. Release the bin clutch located on the underside of the bin, and then lower the bin to access the cover.

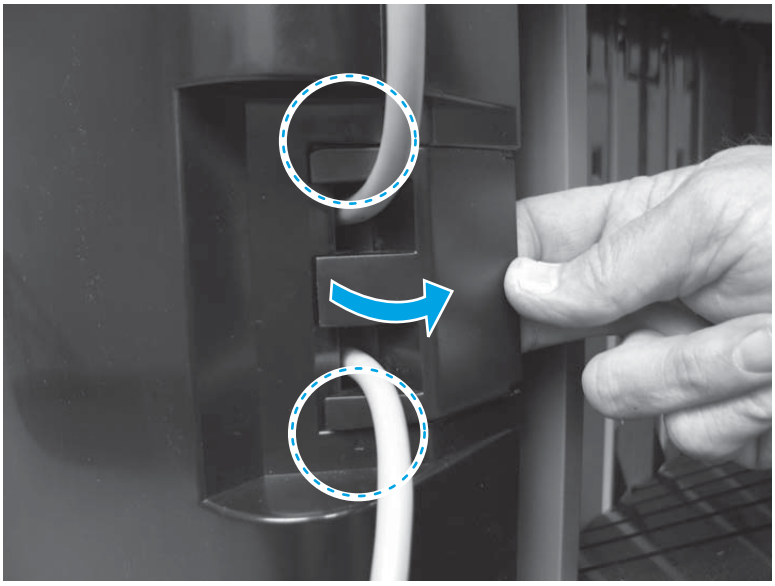
TIP: Use a small flat-blade screwdriver to slide the raised portion of the clutch toward the spring to release the clutch and lower the bin.

Figure 1-729 Remove the bin cable guide cover (2 of 6)



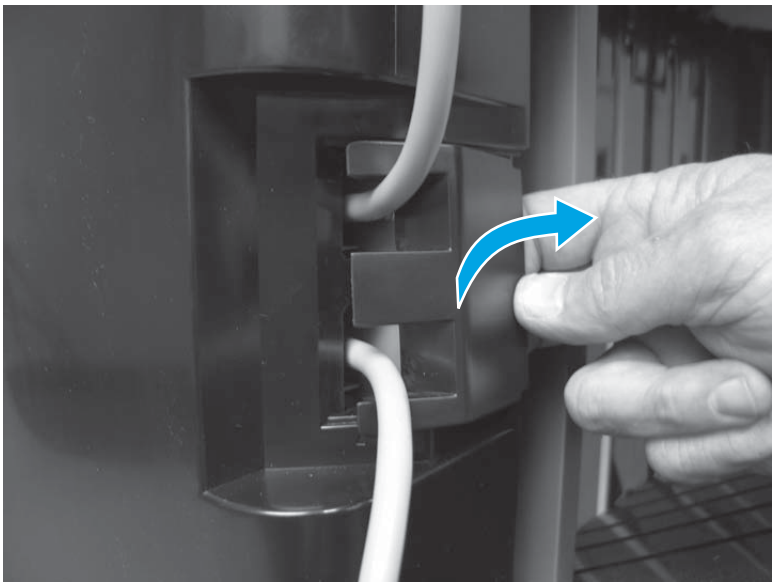
3. Use your fingers to reach in behind the cover, and then rotate the end of the cover—near the stack bin cables—away from the accessory to release two tabs.

Figure 1-730 Remove the bin cable guide cover (3 of 6)



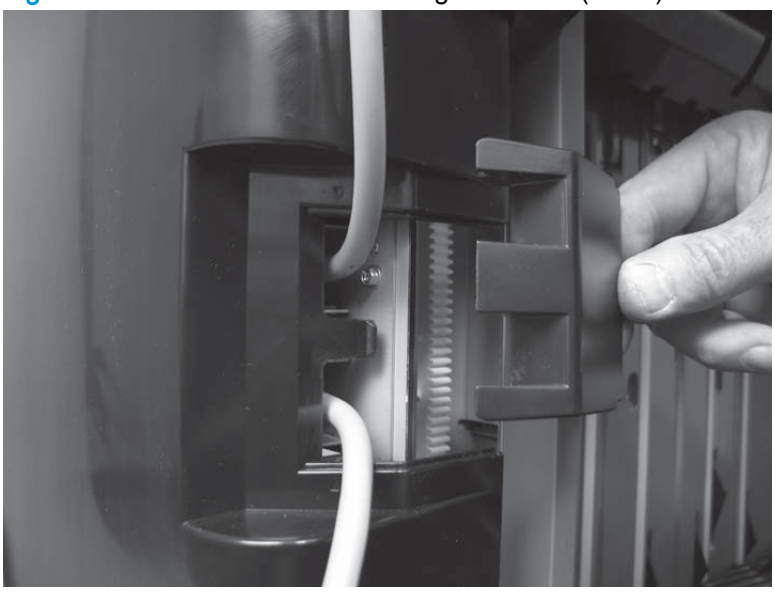
4. Slide the cover towards the stack bins to release it.

Figure 1-731 Remove the bin cable guide cover (4 of 6)



5. Remove the cover.

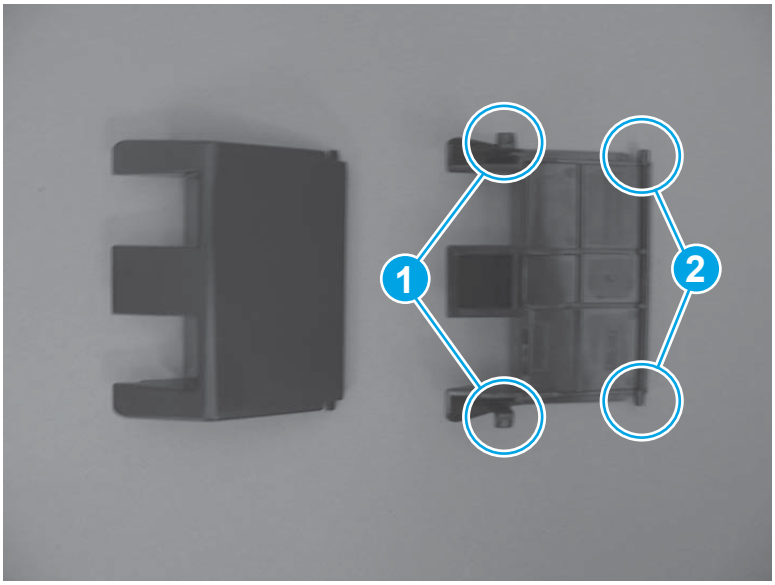
Figure 1-732 Remove the bin cable guide cover (5 of 6)



6. After the cover is removed, take note of the location of the two latching tabs (callout 1) and the two positioning tabs (callout 2).

When the bin cable guide cover is reinstalled, these tabs must be correctly positioned so that the cover is correctly installed and the bin cables will not bind on the cover when the bins move up and down.

Figure 1-733 Remove the bin cable guide cover (6 of 6)



Reinstall the bin cable guide cover

If the cover is not correctly installed, the bin cable guide cover can bind on the cover, which causes the upper and lower stack bins to not function correctly. If the bins cannot function correctly, a 66.60.32 error message appears on the control-panel display.

Make sure that the cover correctly fits flush against the rear cover when it is correctly installed—there should not be a gap between the bin cable guide cover and the rear cover.

Figure 1-734 Bin cable guide cover correctly installed

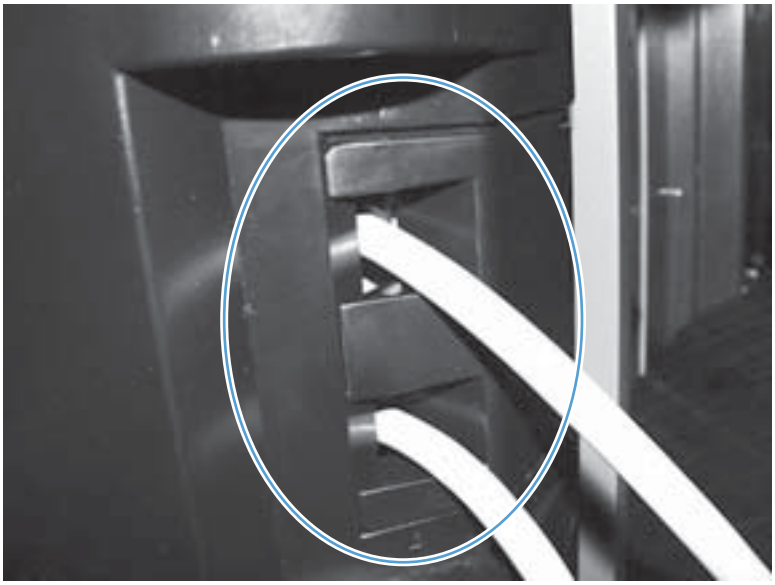
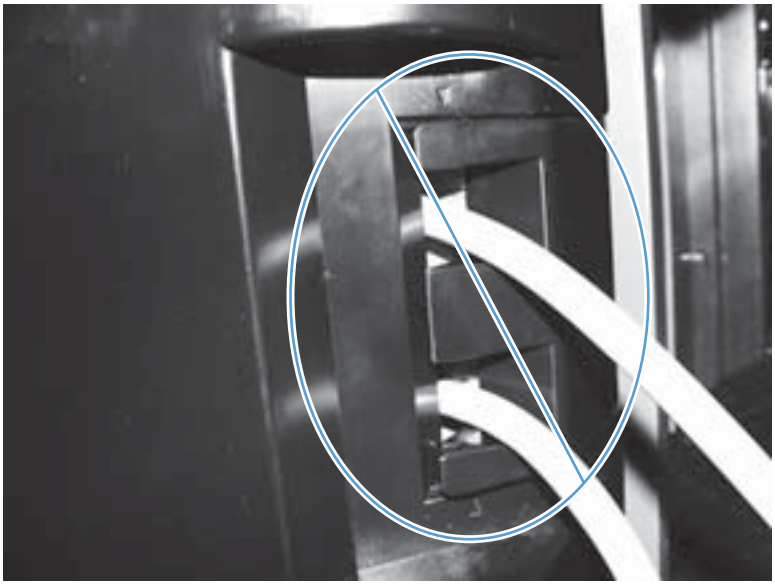


Figure 1-735 Bin cable guide cover incorrectly installed



Rear cover assembly

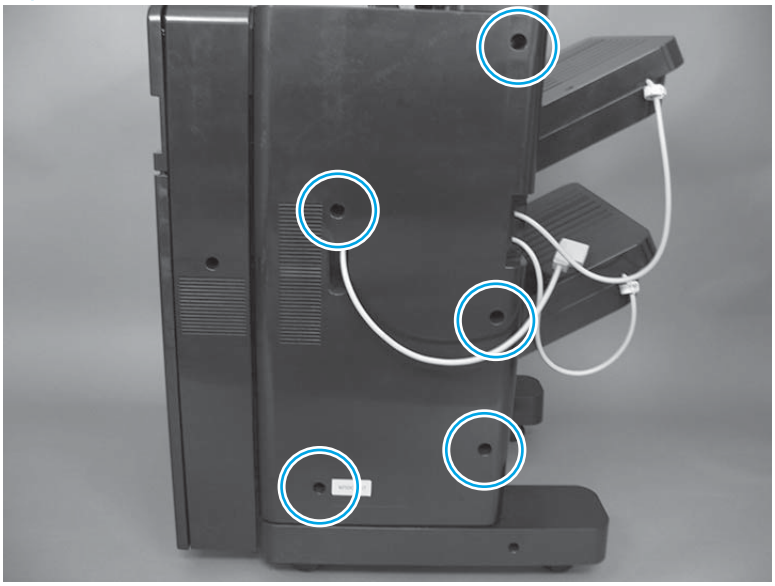
Before proceeding, remove the following assemblies:

- Bin cable guide cover. See Bin cable guide cover on page 492.

Remove the rear cover assembly

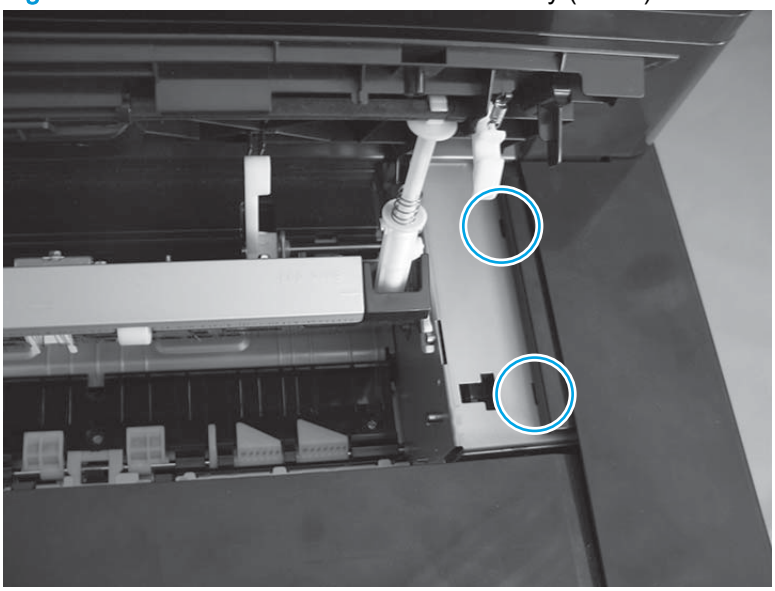
1. Remove five screws.

Figure 1-736 Remove the rear cover assembly (1 of 4)



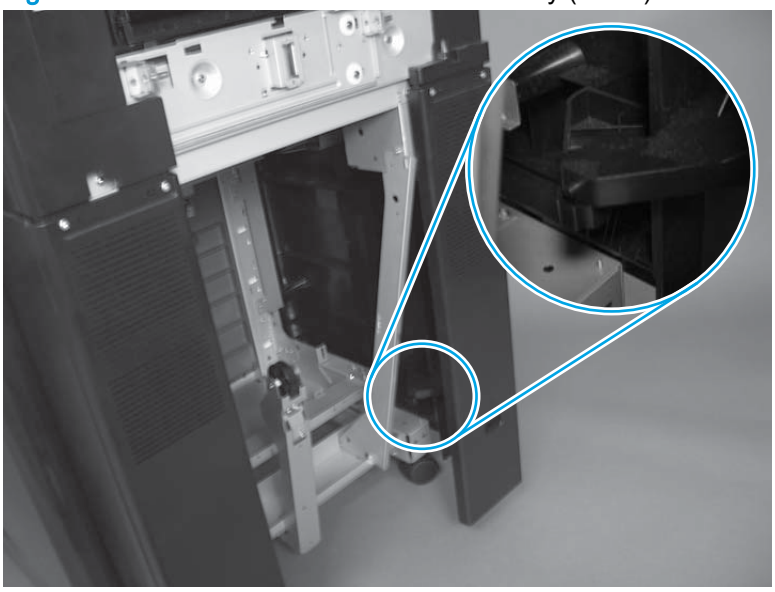
2. Open the top door assembly, and then lift up on the rear cover to release two tabs.

Figure 1-737 Remove the rear cover assembly (2 of 4)



3. As the cover is removed, you might need to reach behind the latch cover, and then release two locator pins on the back side of the cover.

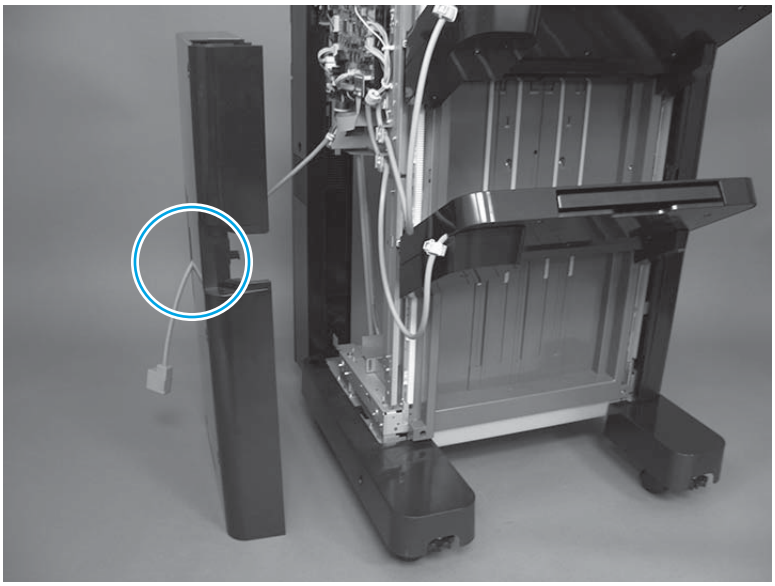
Figure 1-738 Remove the rear cover assembly (3 of 4)



4. Remove the cover.

NOTE: As the cover is removed, carefully feed the interface cable through the hole provided in the cover.

Figure 1-739 Remove the rear cover assembly (4 of 4)



Main controller PCA assembly

Before proceeding, remove the following assemblies:

- Bin cable guide cover. See Bin cable guide cover on page 492.
- Rear cover assembly. See Rear cover assembly on page 496.

Remove the main controller PCA assembly

CAUTION: ESD sensitive assembly.

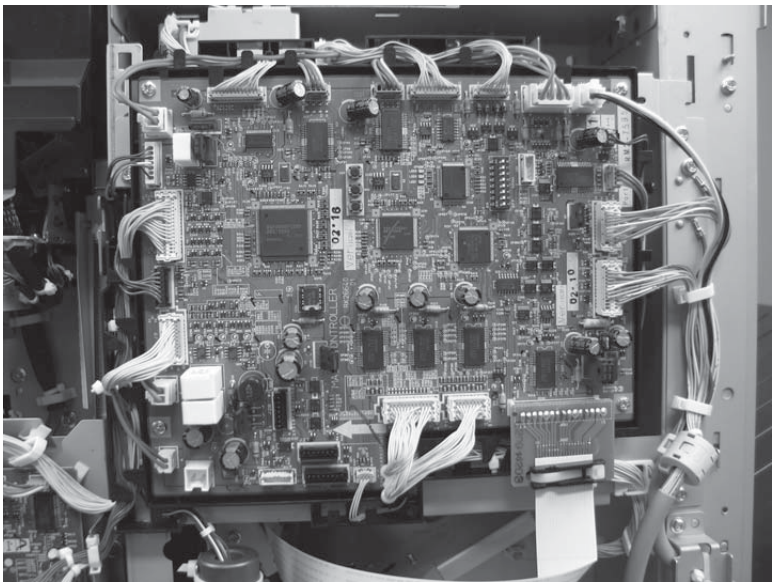
1. Disconnect 22 of the connectors, and then release the wire harnesses from the guides.

TIP: Releasing the wire harnesses from the guides first will make it easier to disconnect some of the connectors on the PCA.

NOTE: The following connectors are not used on the PCA:

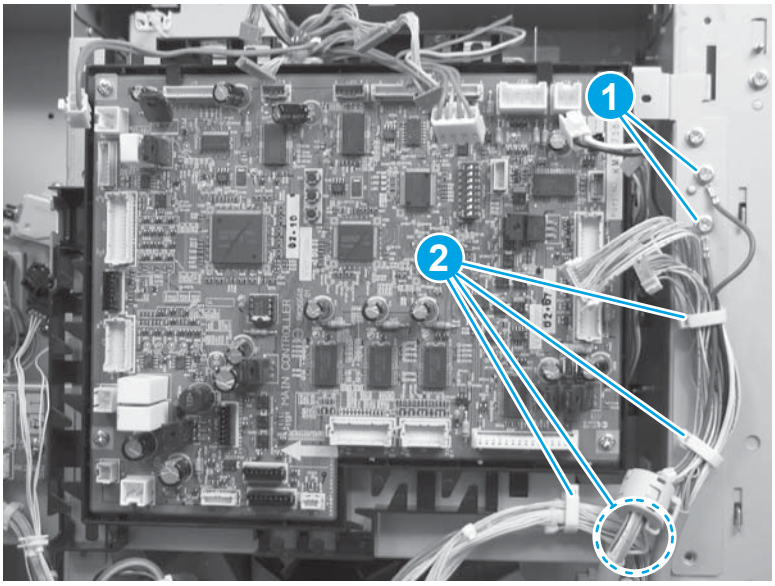
- Booklet maker: J25, J27, J28, and J32
- Booklet maker with hole punch: J21, J25, J27, and J28
- Stapler/stacker with hole punch: J12, J15, J25, J27, J28, and J30
- Stapler/stacker: J9, J16, and J32

Figure 1-740 Remove the main controller PCA assembly (1 of 6)



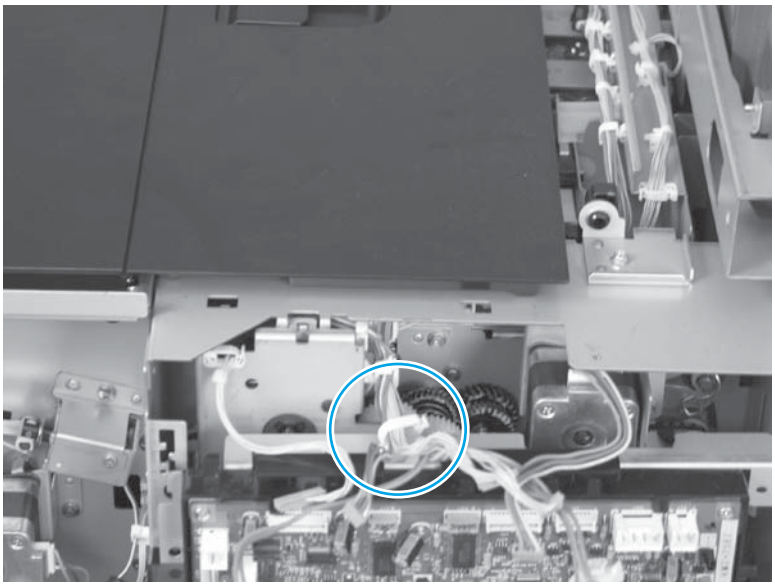
2. Remove two screws (callout 1) to release two ground wires, and then release the wire harnesses from four retainers (callout 2).

Figure 1-741 Remove the main controller PCA assembly (2 of 6)



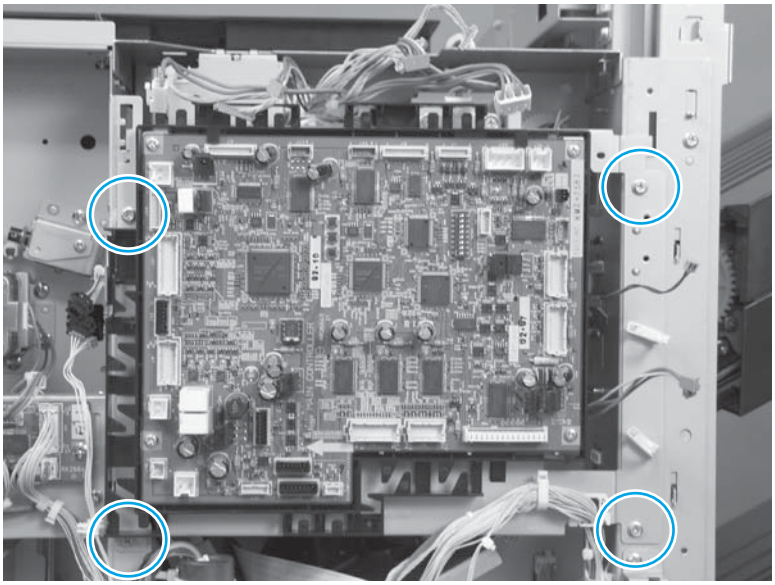
3. Release the wire harnesses from one retainer at the top of the sheet-metal PCA mounting bracket.

Figure 1-742 Remove the main controller PCA assembly (3 of 6)



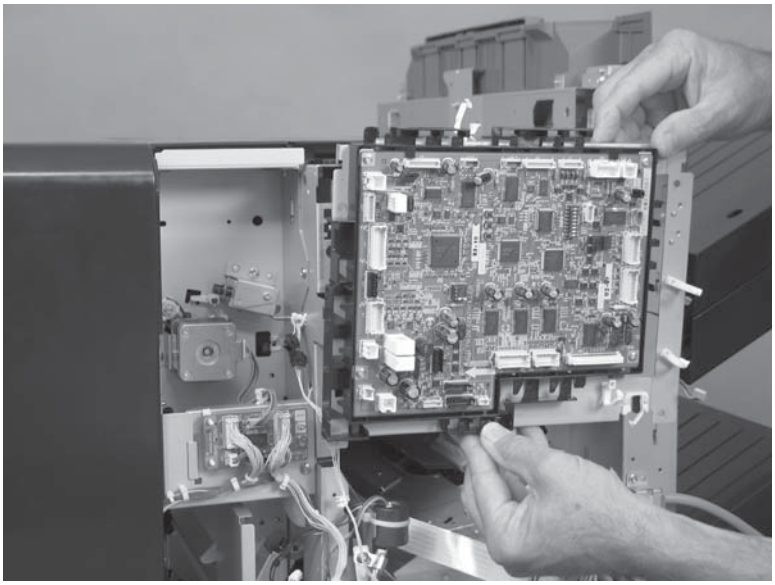
4. Remove four screws.

Figure 1-743 Remove the main controller PCA assembly (4 of 6)



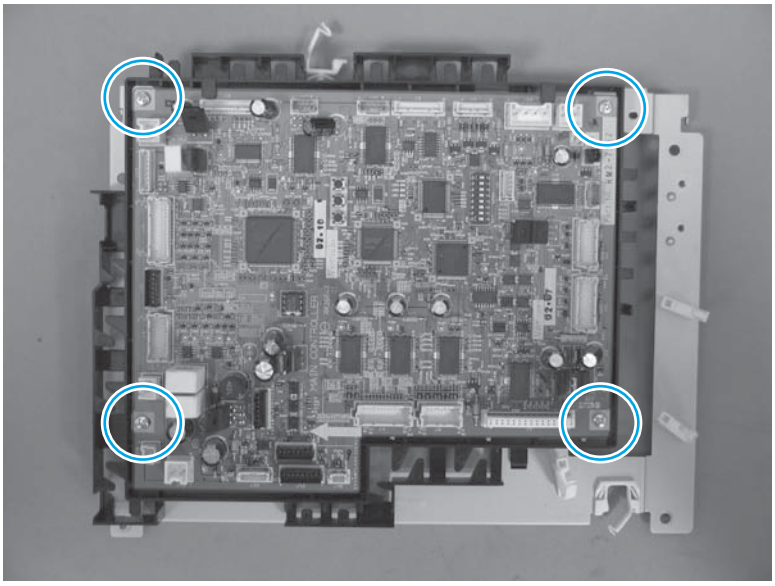
5. Lift up on the main controller PCA assembly to release it, and then remove the assembly.

Figure 1-744 Remove the main controller PCA assembly (5 of 6)



6. **Optional step**: Remove four screws, and then separate the main controller PCA from the sheet-metal mounting bracket.

Figure 1-745 Remove the main controller PCA assembly (6 of 6)

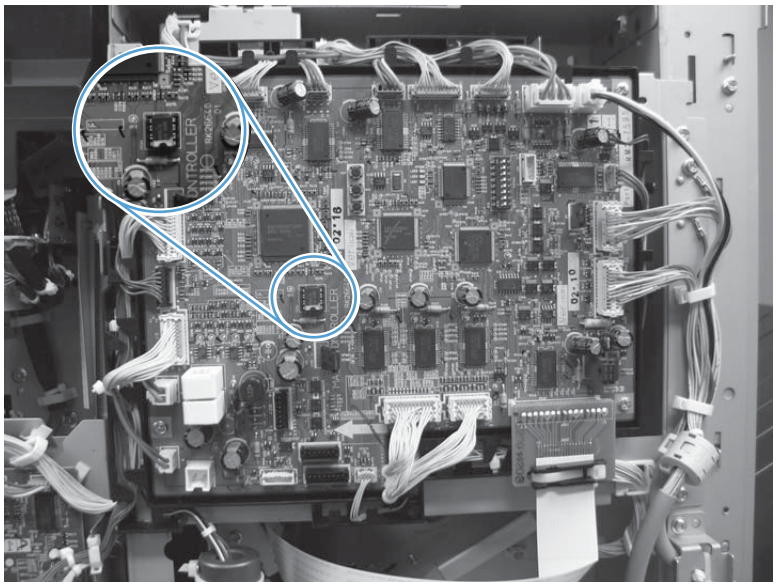


Install a replacement main controller PCA assembly

The main controller PCA assembly includes a removable memory device that contains important calibration information for the accessory. Carefully remove this device—place a small flat blade screwdriver between the memory device and the socket, and then gently pry the device out of the socket—and then install it on the replacement PCA to retain the calibration information.

⚠ **CAUTION:** When you install the memory device, the notch on the device and the notch on the socket must be aligned. If the memory device is not correctly installed, the device polarity will be reversed, which will damage the memory device.

Figure 1-746 Install a replacement main controller PCA assembly



Adjustments

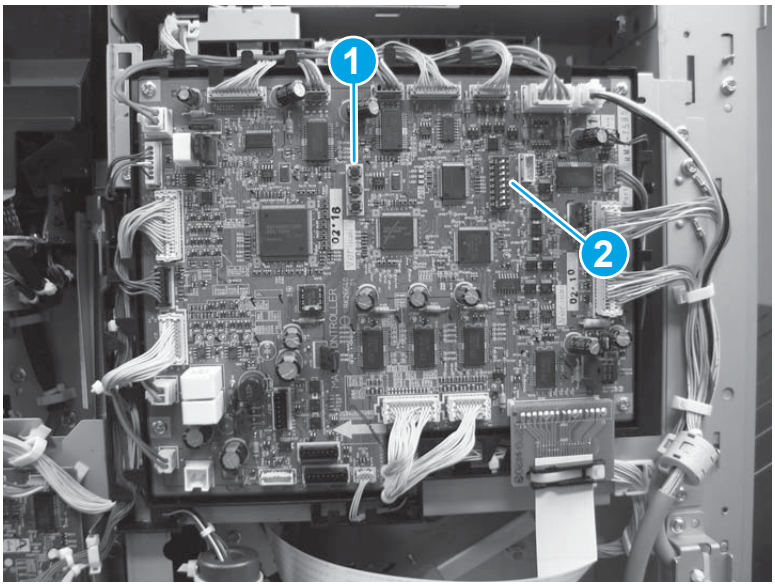
These adjustments are for the primary stapler unit for both the stapler stacker and booklet maker accessories. Test the finishing accessory functions after replacing the main controller PCA. If needed, use these procedures to make performance adjustments.

Access the main controller switches

- SW1, SW2, and SW3 (callout 1)
- DIPSW4 (callout 2)

NOTE: DIPSW4 has eight electronic switches that can be configured in the ON or OFF position. The controller PCA is marked ON and OFF to show the current switch position.

Figure 1-747 Main controller PCA switches

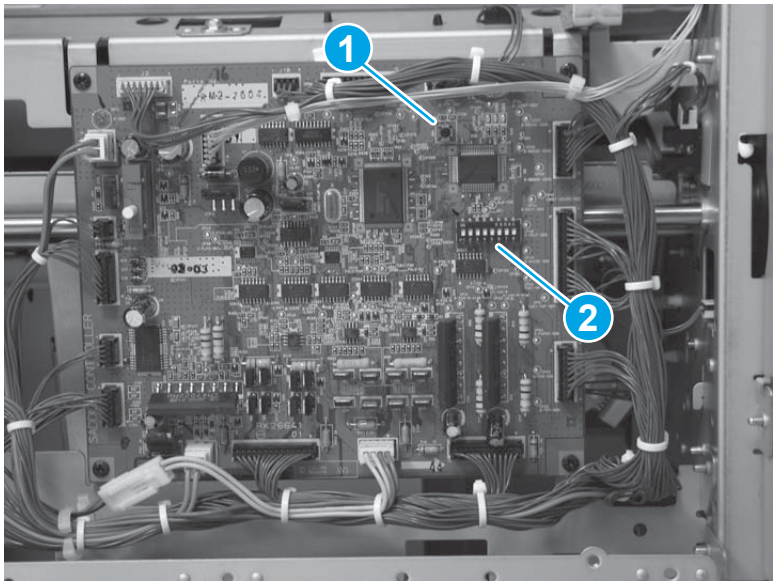


Access the saddle controller switches (BM only)

- SW1 (callout 1)
- DIPSW (callout 2)

NOTE: DIPSW has eight electronic switches that can be configure in the ON or OFF position. The controller PCA is marked ON and OFF to show the current switch position.

Figure 1-748 Booklet maker controller PCA switches

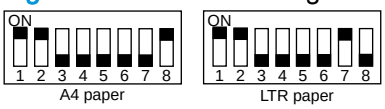


Adjust the alignment position

Perform this adjustment if the alignment position must be changed.

1. Turn the product power off, and then disconnect the interface cable from the product.
2. Access the main controller PCA, and then set DIPSW4 to one of the following:

   Figure 1-749 DIPSW4 alignment settings

3. Connect the interface cable to the product, and then turn the product power on.
4. Press SW3 on the main controller PCA. When SW3 is pressed, the swing guide opens and the alignment plate moves to the prescribed position.
5. Place ten sheets of A4 or LTR paper between the alignment plates and align them squarely against the stopper.

   NOTE: The object of this calibration is to adjust the plates so that they lightly and evenly touch the sides of the stacked paper.

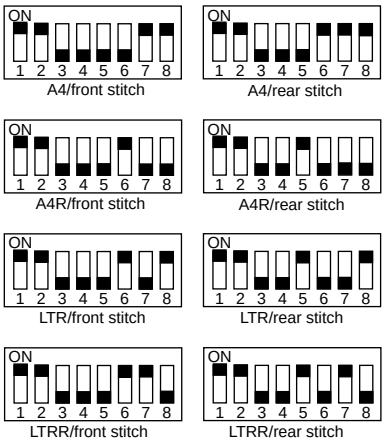
6. Press SW1 or SW2 on the main controller PCA and adjust the alignment plate against the paper. The adjustment range is -/+ 4.2 mm (0.165 in).
   - Pressing SW1 moves the alignment plate 0.42 mm (0.016 in) forward
   - Pressing SW2 moves the alignment plate 0.42 mm (0.016 in) backward
7. When the adjustment is complete, remove the paper, and then press SW3 once to write the adjustment values to the memory device on the PCA.
8. Return all of the switches on DIPSW4 to the OFF position.
9. Turn the product power off, and then install the covers.

Adjust the staple position

Adjust the stapler position if the staple position must be changed. This adjustment sets the front and rear stitches with A4/A4R when the paper used for adjustment is AB type and with LTR/LTRR when the paper is INCH type.

1. Turn the product power off, and then disconnect the interface cable from the product.
2. Access the main controller PCA, and then set DIPSW4 according to paper/stitch position used for adjustment:

   Figure 1-750 DIPSW4 staple position settings

3. Connect the interface cable to the product, and then turn the product power on.
4. Press SW3 on the main controller PCA. When SW3 is pressed, the swing guide opens and the alignment plate moves to the prescribed position.
5. Place two sheets paper between the alignment plates and align them squarely against the stopper, and then push the rear edge of the paper against the rear alignment plate.

   If the gap between the front alignment plate and front edge of the paper is 1 mm (0.039 in) or greater, adjust the plate alignment before continuing. See Adjust the alignment position on page 504.
6. Press SW3 on the main controller PCA once to staple the paper. Remove the stapled paper and verify the staple position.
7. Press SW3 on the main controller PCA once.
8. If the staple position is correct, insert a sheet of paper between the aligning plates and align it against the stopper, push the far end edge of the paper to the rear aligning plate, press SW3 once (stapling action/store adjustment value), and then proceed to step 10.
9. If the staple position is incorrect, press SW1 or SW2 on the main controller PCA to adjust the staple position.
   - Pressing SW1 moves the alignment plate 0.49 mm (0.019 in) forward
   - Pressing SW2 moves the alignment plate 0.49 mm (0.019 in) backward
10. Repeat step 4 and step 5 until the staple is in the correct position.

11. Return all of the switches on DIPSW4 to the OFF position.
12. Turn the product power off, and then install the covers.

Adjust the folding position to the stitch position (booklet maker only)

Adjust the position of the booklet fold by changing the settings of bits six through eight of DIPSW on the booklet maker controller PCA to match the booklet stapling (stitching) position.

If the booklet maker controller PCA has been replaced, be sure to set the new DIPSW so that the settings will be the same as those on the old DIPSW.

Perform this adjustment if you must change the folding position. Set the DIPSW on the booklet maker controller PCA to match the stitching position (adjusting the distance over which the paper positioning plate is moved to the folding position from the stitching position).

1. Turn the product power off, and then disconnect the interface cable from the product.
2. Access the booklet maker controller PCA, and then set DIPSW. To establish a baseline for measurements, set bits 1 through 8 of DIPSW on the booklet maker controller PCA as follows:

NOTE: Do not change bit 5.

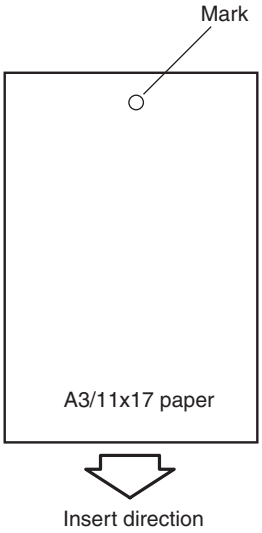
Figure 1-751 DIPSW folding position settings

Do not change bit 5.

3. Do the following:
   - Open the front door and the paper-jam-access guide plate on the saddle guide assembly.
   - At the rear of the accessory, tape the actuator of the inlet-cover sensor (saddle guide assembly PI9) and inlet door switch (saddle guide assembly SW1) so that both sensor and switch remain activated. This simulates the saddle guide in the closed position throughout the adjustment procedure.

4. Using two sheets of A3 or 11 x 17 paper, mark the top of the paper as shown below. This is a reference mark to show a specific end of the paper. The mark just needs to be somewhere at one end of the paper as shown below.

Figure 1-752 Mark the paper

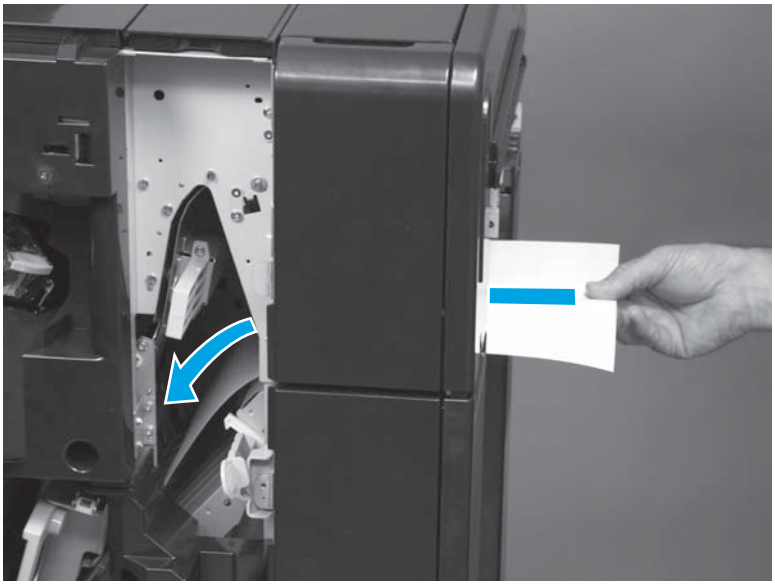


5. Close the saddle guide assembly and the front door of the accessory. Reconnect the interface cable from the booklet maker to the product. Turn the product power on, and wait until the product is in a Ready state.

6. Press SW1 on the booklet maker controller PCA to activate the feed motor (M1). You will need to press and hold down SW1 for three seconds or longer if 11 x 17 paper is used.

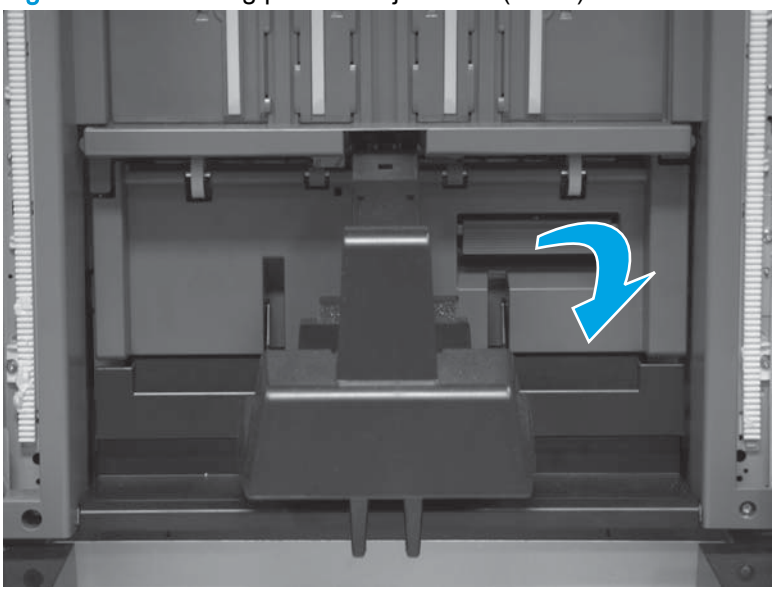
7. Open the front door of the accessory, and then open saddle guide assembly (callout 1). Insert the two sheets of marked paper into the paper path (callout 2) leading to the folding unit and past the booklet stapler unit (callout 3). Push them in by hand until the front edge of the sheets push against the paper positioning plate.

Figure 1-753 Folding position adjustment (1 of 3)



8. Opening the booklet jam access door.

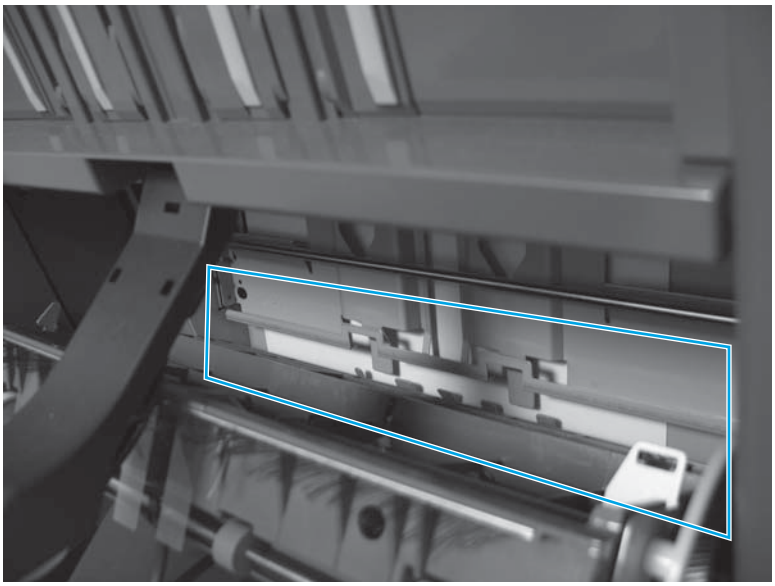
Figure 1-754 Folding position adjustment (2 of 3)



9. Verify that the paper is properly located against the paper positioning plate (callout 1).

NOTE: It is important for the bottom of the sheets of paper to be squarely resting on the paper positioning plate for the adjustment to be accurate. Check that the paper is even along the four tabs on the plate.

Figure 1-755 Folding position adjustment (3 of 3)



10. Close the saddle guide assembly.

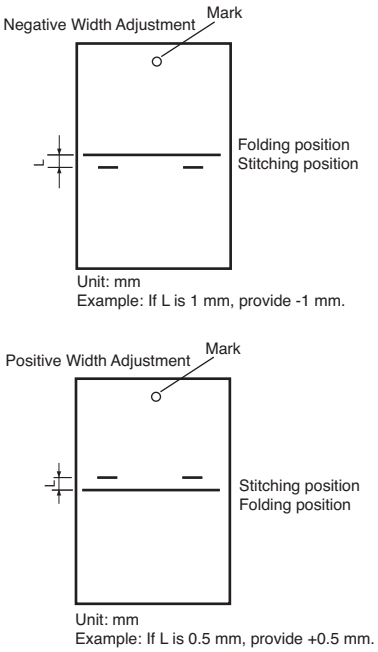
11. Press SW1 on the booklet maker controller PCA. The saddle stitcher unit will "stitch" the sheets, and fold and deliver the stack automatically to the booklet output bin.

12. Measure the distance (L) between the stitching position and the folding position. Then perform a positive-width adjustment or a negative-width adjustment to suit the relationship between the stitching position and the folding position.

NOTE: If the L adjustment is significantly larger than what the adjustment allows, the most common cause is that the paper was not fully inserted and resting squarely on the paper position plate.

- If the stitching position is above the folding position, perform a positive-width adjustment.
- If the stitching position is below the folding position, perform a negative-width adjustment.

Figure 1-756 Positive and negative width adjustment



13. Refer to the following tables, and then change the settings of bits 6 through 8 on DIPSW.

Table 1-28 DIPSW settings

DIPSW Bit settings			Setting 0.5 mm (0.019 in) units
Bit 6	Bit 7	Bit 8	
OFF	ON	ON	+3
OFF	ON	OFF	+2
OFF	OFF	ON	+1
OFF	OFF	OFF	0
ON	OFF	ON	-1
ON	ON	OFF	-2
ON	ON	ON	-3
ON	OFF	OFF	

Table 1-29 Do not change these DIPSW settings

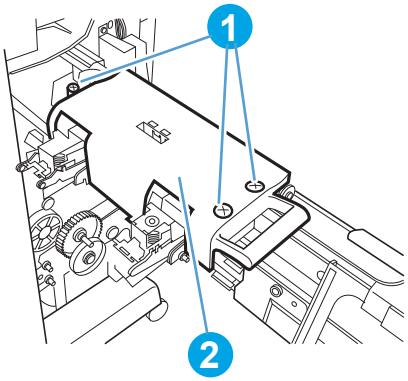
DIPSW Bit settings		
Bit 6	Bit 7	Bit 8
ON	OFF	OFF

14. When adjustment has been completed and the stitch staples are within the fold line, set DIPSW bits 1 to 4 (only) to OFF.
15. Remove the tape from the actuator arm of switch SW1 and PI9 on the rear frame of the accessory.

Adjust the stitcher unit

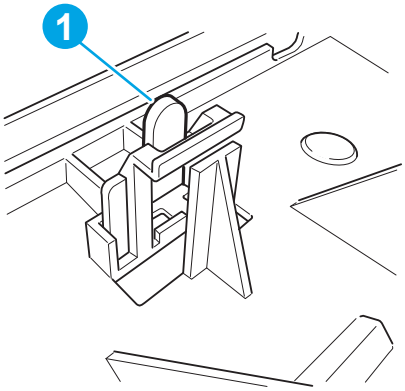
1. Open the front cover.
2. Pull out the stitcher mount unit to the front. Pull the stitcher towards you and then pull up.
3. Remove three screws (callout 1) and then remove the stitcher cover (callout 2).

Figure 1-757 Adjust the stitcher (1 of 6)



4. Remove the stitcher positioning tool (callout 1) from the back of the cover.

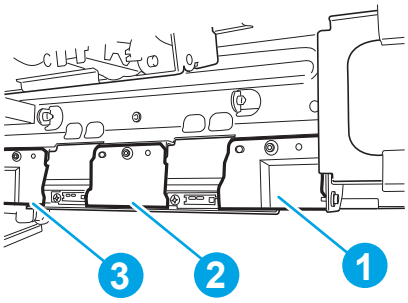
Figure 1-758 Adjust the stitcher (2 of 6)



5. To adjust the front stitcher, remove the front guide plate (callout 1) and center guide plate (callout 2). To adjust the rear stitcher, remove the center guide plate (callout 2) and the rear guide plate (callout 3).

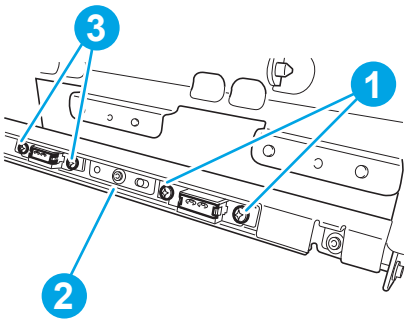
TIP: Remove one screw from each plate to remove the plates.

Figure 1-759 Adjust the stitcher (3 of 6)



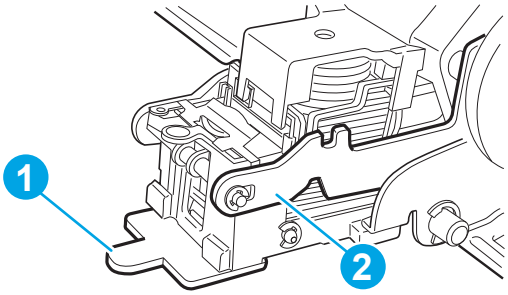
6. To adjust the front stitcher, loosen the two screws (callout 1) on the stitcher mount (callout 2). To adjust the rear stitcher, loosen the two screws (callout 3) on the stitcher mount.

Figure 1-760 Adjust the stitcher (4 of 6)



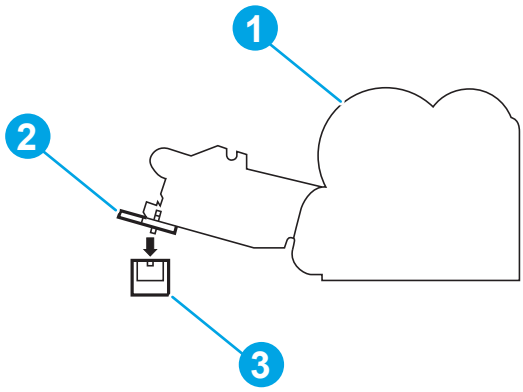
7. Insert the tool (callout 1) into the staple slot of the stitcher (callout 2).

Figure 1-761 Adjust the stitcher (5 of 6)



8. Tilt the stitcher, and turn the stitcher gear (callout 1) to match the recess of the tool (callout 2) and the mount (callout 3) and then tighten the screws on the stitcher mount.

Figure 1-762 Adjust the stitcher (6 of 6)



Entrance upper guide assembly

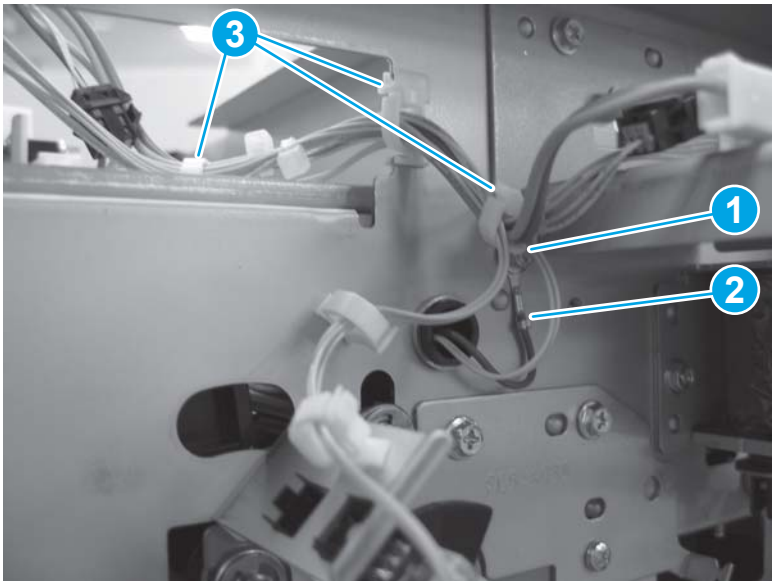
Before proceeding, remove the following assemblies:

- Open/closed stepped cover assembly. See Open/closed stepped cover assembly on page 471.
- Upper stepped cover assembly. See Upper stepped cover assembly on page 472.
- Lower stepped cover assembly. See Lower stepped cover assembly on page 474.
- Top door assembly. See Top door assembly on page 478.
- Front door. See Front door on page 479.
- Inner upper cover assembly. See Inner upper cover assembly on page 480.

Remove the entrance upper guide assembly

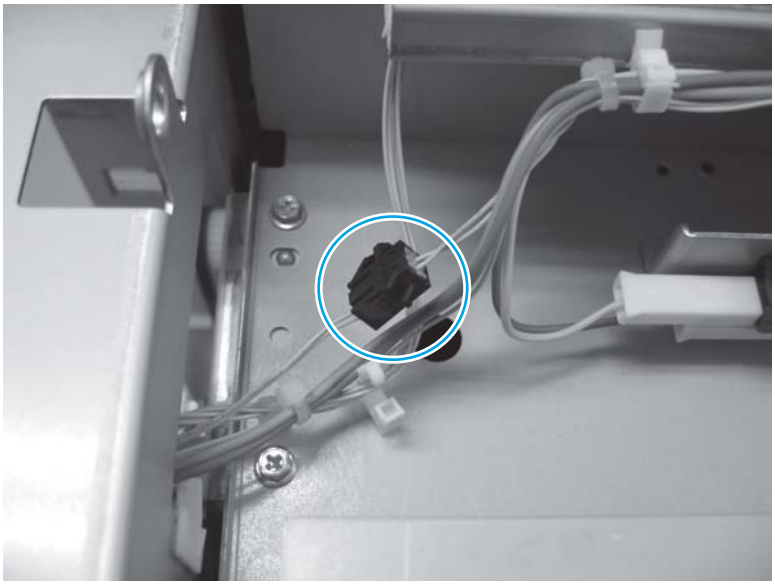
1. On the upper front chassis, remove one screw (callout 1) to release the ground wire (callout 2), and then release the wire harness from three retainers (callout 3).

Figure 1-763 Remove the entrance upper guide assembly (1 of 3)



2. Disconnect one connector.

Figure 1-764 Remove the entrance upper guide assembly (2 of 3)



3. Do the following:

   a. Remove one screw (callout 1), and then remove the door lock assembly (callout 2).

   b. Remove one screw (callout 3) to release the remove the ground wire (callout 4).

   TIP: Use a small Phillips-head screwdriver to remove this screw.

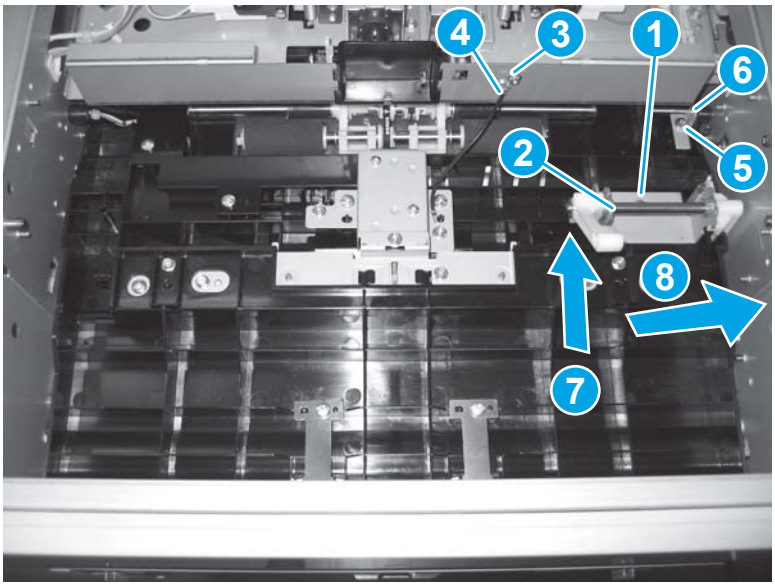
   c. Remove one screw (callout 5), and then remove the hinge pin (callout 6).

   d. Lift the assembly up (callout 7), and then slide it to the right (carefully remove the wire harness through the access hole in the chassis) to remove it (callout 8).

   NOTE: The figure below shows the entrance guide assembly in the BM accessory. The assembly in the SSHP accessory is considerably smaller (about one half the size shown), but the procedure is the same.

Reinstallation tip Carefully guide the wire harness through the access hole in the chassis when you reinsert the entrance assembly.

Figure 1-765 Remove the entrance upper guide assembly (3 of 3)



Rear foot cover assembly

Before proceeding, remove the following assemblies:

- Latch lower covers (front and rear). See Latch lower covers (front and rear) on page 468.

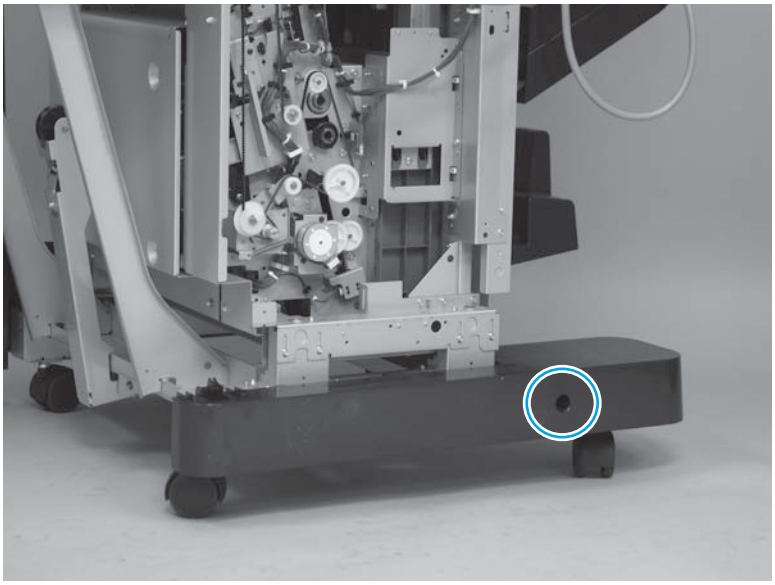
NOTE: Only the rear latch lower cover needs to be removed.

- Latch assembly assembly. See Latch assembly on page 470.
- Bin cable guide cover. See Bin cable guide cover on page 492.
- Rear cover assembly. See Rear cover assembly on page 496.
- For all models with a hole punch assembly installed:
  - Punch lower front cover assembly. See Punch lower front cover assembly on page 684.
  - Punch rear cover assembly. See Punch rear cover assembly on page 686.

Remove the rear foot cover assembly

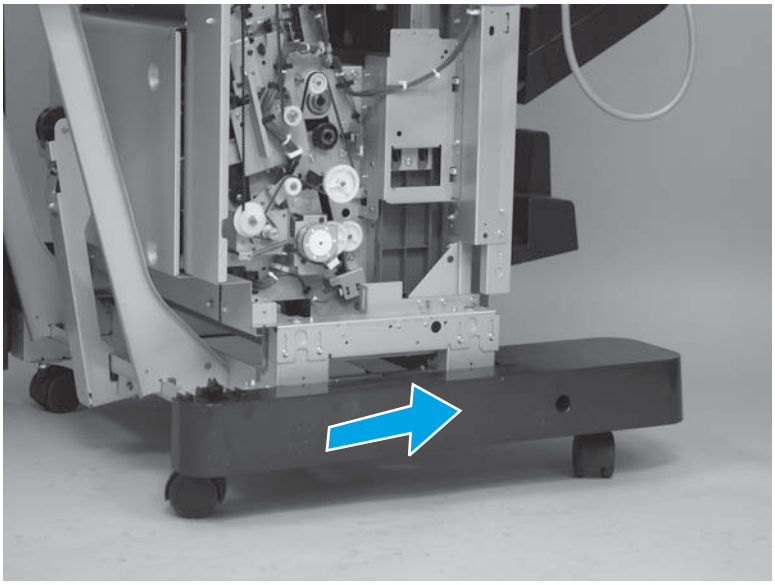
1. Remove one screw.

Figure 1-766 Remove the rear foot cover assembly (1 of 2)



2. Slightly slide the cover to the right to release it, and then remove the cover.

Figure 1-767 Remove the rear foot cover assembly (2 of 2)



Stack wall upper assembly and upper wall guide assembly

Before proceeding, remove the following assemblies:

- Open/closed stepped cover. See Open/closed stepped cover assembly on page 471.
- Upper stepped cover. See Upper stepped cover assembly on page 472.
- Lower stepped cover. See Lower stepped cover assembly on page 474.

Remove the stack wall upper assembly and upper wall guide assembly

1. If the upper stack bin is in the raised position do the following:

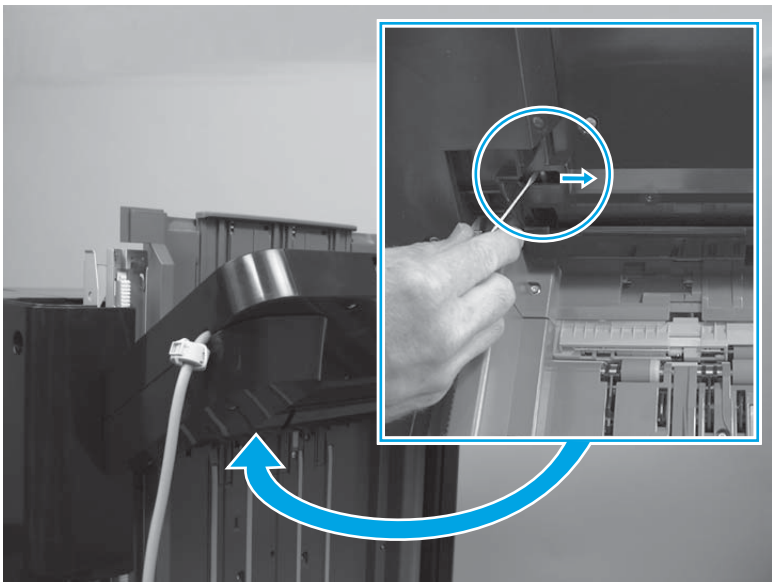
   a. Support the bin.

   b. Release the bin clutch located on the underside of the bin, and then lower the bin to access the cover.

   TIP: Use a small flat-blade screwdriver to slide the raised portion of the clutch toward the spring to release the clutch and lower the bin.

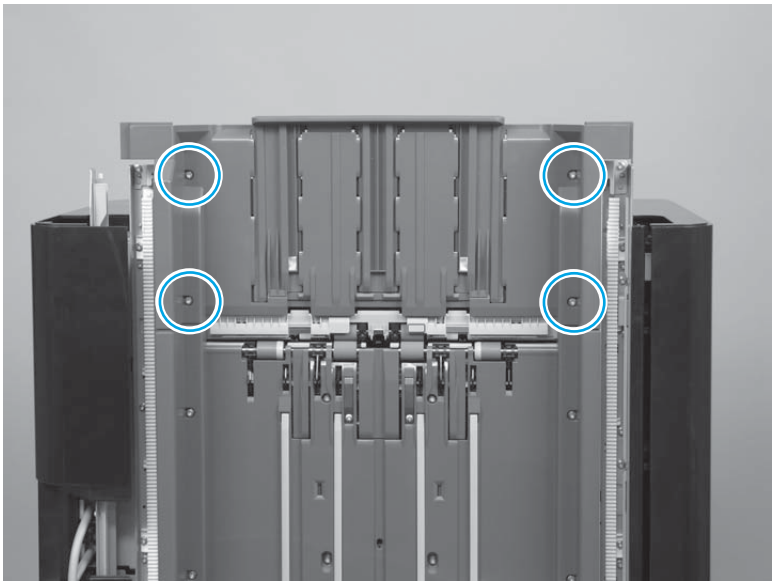
   c. Lower the bin to access the stack wall upper cover.

Figure 1-768 Remove the stack wall upper assembly and upper wall guide assembly (1 of 5)



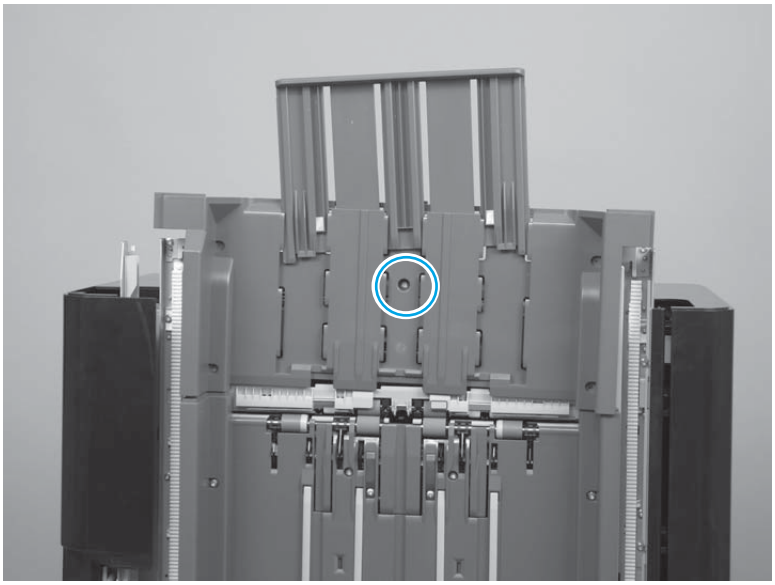
2. Remove four screws.

Figure 1-769 Remove the stack wall upper assembly and upper wall guide assembly (2 of 5)



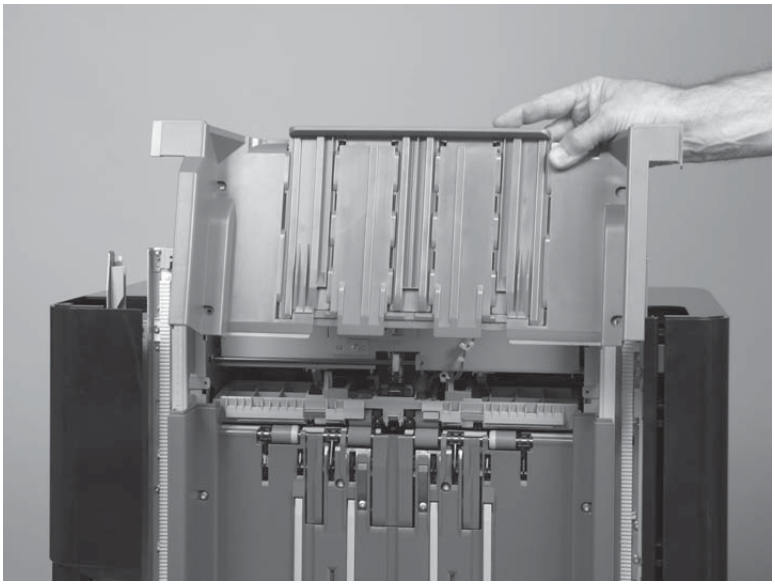
3. Raise the upper wall guide, and then remove one screw.

Figure 1-770 Remove the stack wall upper assembly and upper wall guide assembly (3 of 5)



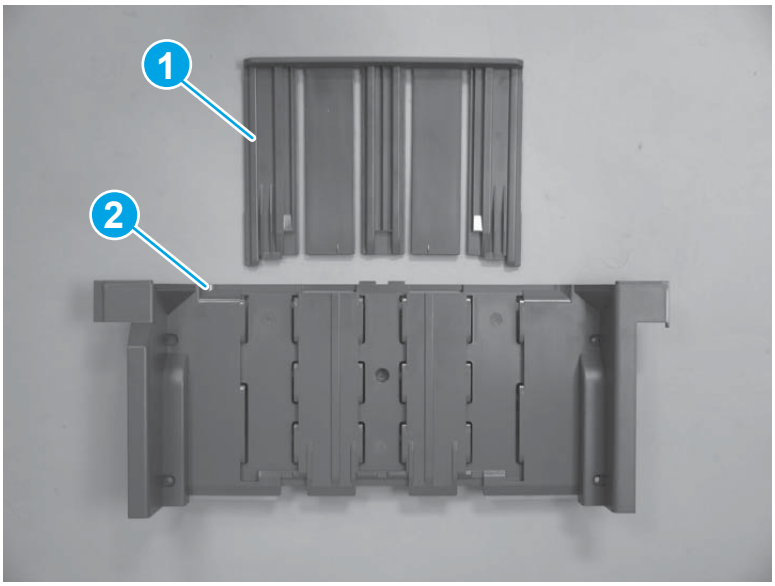
4. Remove the cover.

Figure 1-771 Remove the stack wall upper assembly and upper wall guide assembly (4 of 5)



5. If necessary, separate the upper guide wall (callout 1) from the stack wall upper assembly (callout 2).

Figure 1-772 Remove the stack wall upper assembly and upper wall guide assembly (5 of 5)



Upper cross member assembly

Before proceeding, remove the following assemblies:

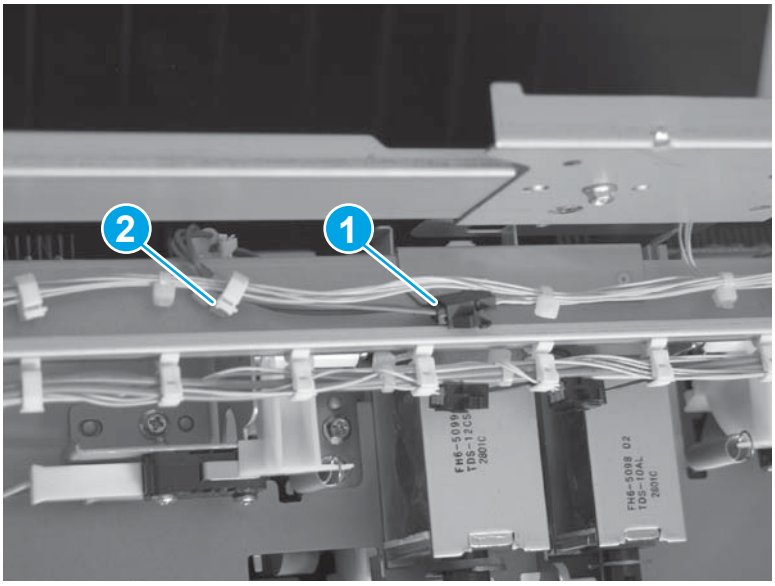
- Latch lower covers (front and rear). See Latch lower covers (front and rear) on page 468.
- Open/closed stepped cover. See Open/closed stepped cover assembly on page 471.
- Upper stepped cover. See Upper stepped cover assembly on page 472.
- Lower stepped cover. See Lower stepped cover assembly on page 474.
- Top door assembly. See Top door assembly on page 478.
- Front door. See Front door on page 479.
- Inner upper cover. See Inner upper cover assembly on page 480.
- Bin cable guide cover. See Bin cable guide cover on page 492.
- Rear cover. See Rear cover assembly on page 496.
- Stack wall upper cover. See Stack wall upper assembly and upper wall guide assembly on page 518.

Remove the upper cross member assembly

1. At the top of the accessory, disconnect one connector (callout 1), and then release the wire harness from one retainer (callout 2).

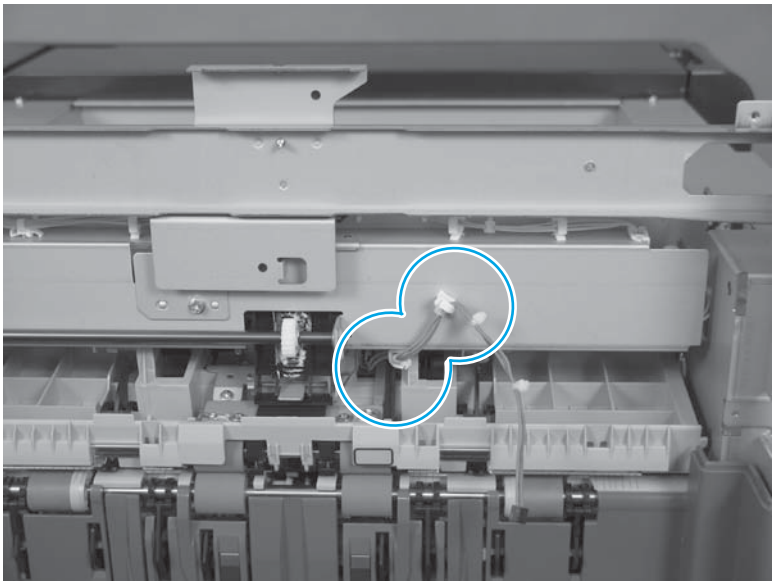
TIP: The connector is located near the two solenoids mounted at the middle of the cross member assembly.

Figure 1-773 Remove the upper cross member assembly (1 of 13)



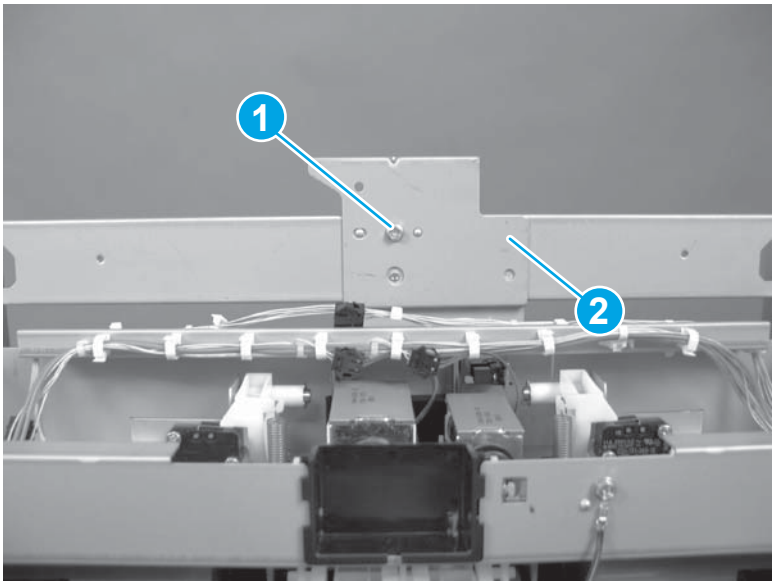
2. Release the wire harness from two retainers, and move it out of the way.

Figure 1-774 Remove the upper cross member assembly (2 of 13)



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

Figure 1-775 Remove the upper cross member assembly (3 of 13)

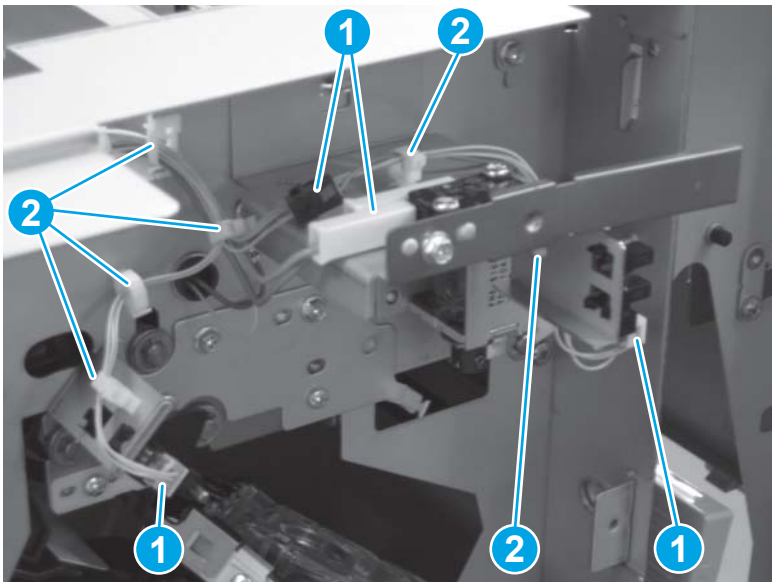


4. At the front of the accessory, disconnect four connectors (callout 1), and then remove the wire from the six wire retainers (callout 2).

WARNING! Make sure that the accessory interface cable is disconnected from the product. Line voltage exists at the switch when the accessory interface cable is connected to the product —even if the product is power is turned off.

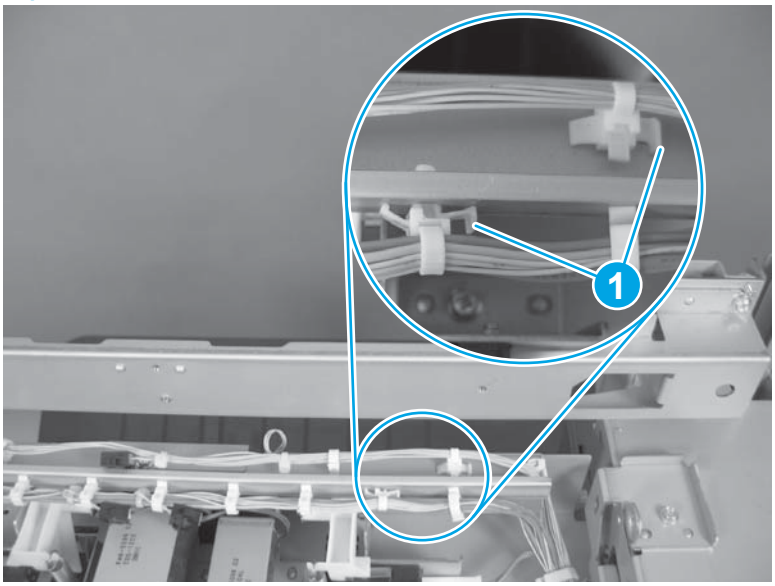
TIP: Use a small flat-blade screwdriver to loosen, and then remove the large white-plastic connector on the front door detection switch.

Figure 1-776 Remove the upper cross member assembly (4 of 13)



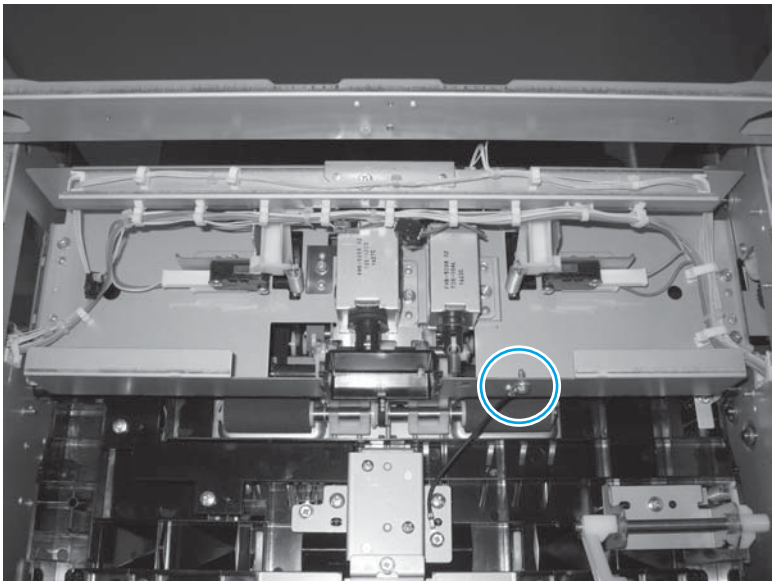
5. Release two tabs (callout 1), and then remove two wire tie retainers.

Figure 1-777 Remove the upper cross member assembly (5 of 13)



6. Remove one screw to release the ground wire.

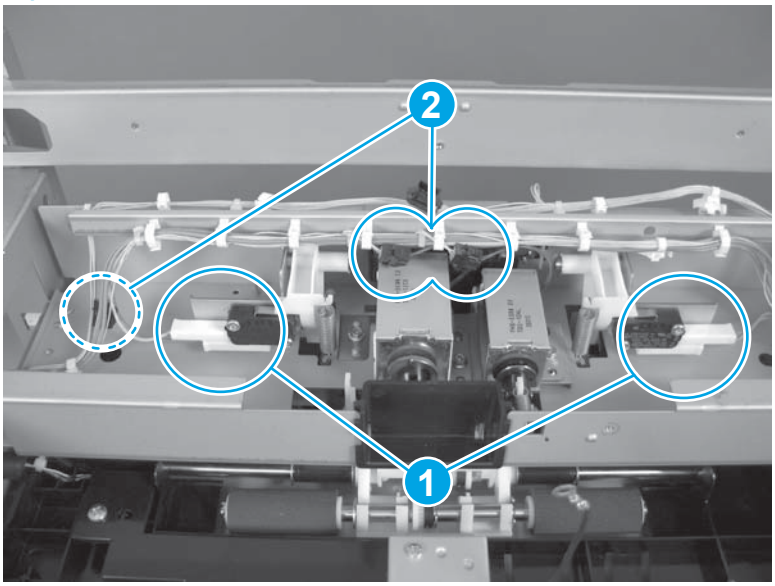
Figure 1-778 Remove the upper cross member assembly (6 of 13)



7. Release two connectors (callout 1) and three inline connectors (callout 2).

TIP: Use a small flat-blade screwdriver to loosen, and then remove the two large white-plastic connectors (callout 1).

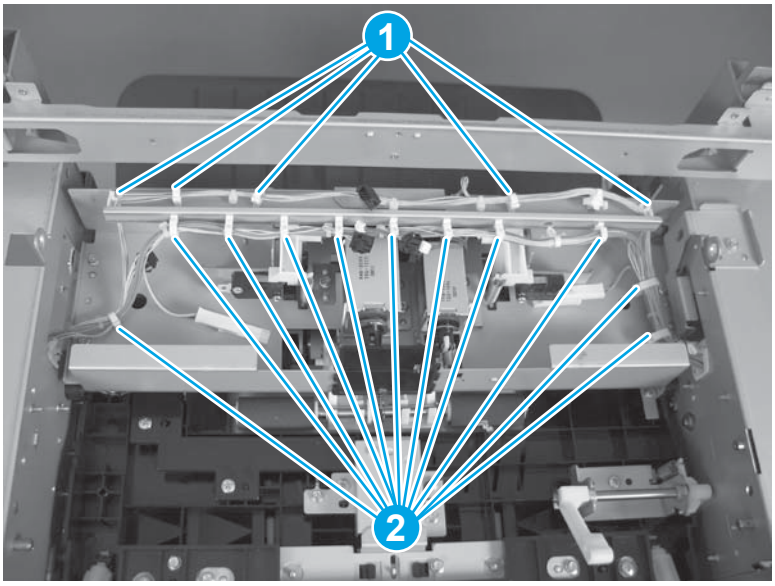
Figure 1-779 Remove the upper cross member assembly (7 of 13)



8. Release the wire harnesses from five retainers (callout 1) along the top of the assembly, and then release the wire harnesses from eleven retainers (callout 2) along the inside of the assembly.

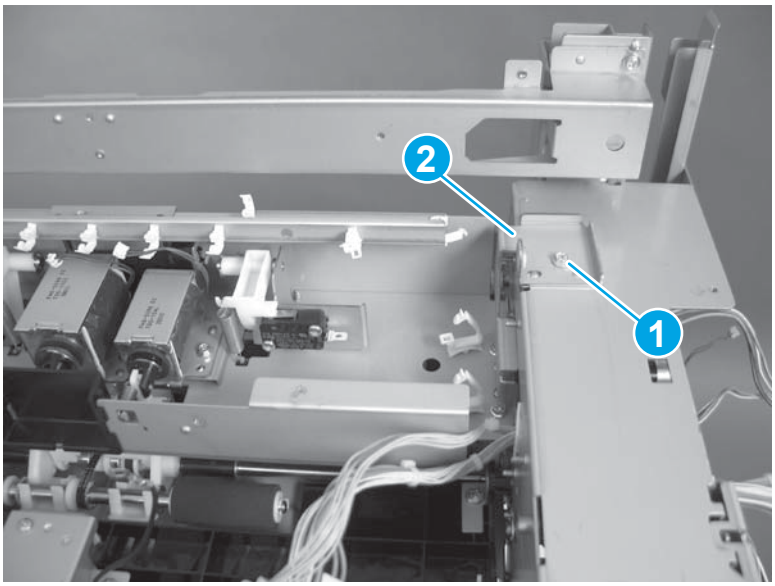
TIP: Move the wire harnesses out of the way.

Figure 1-780 Remove the upper cross member assembly (8 of 13)



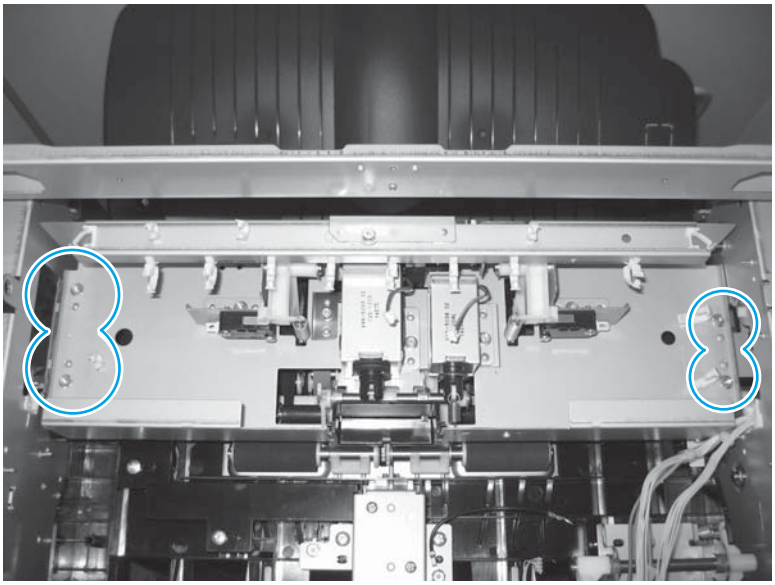
9. Remove one screw (callout 1), and then remove the sheet-metal hinge bracket (callout 2).

Figure 1-781 Remove the upper cross member assembly (9 of 13)



10. Remove four screws.

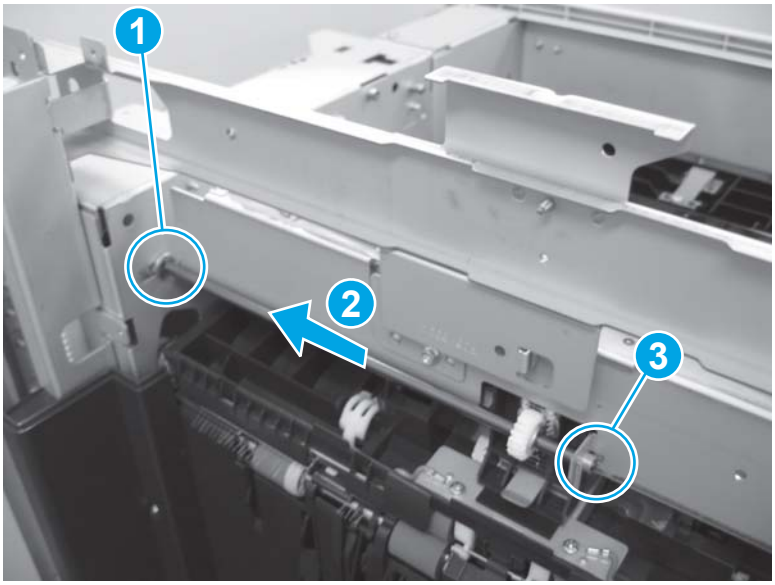
Figure 1-782 Remove the upper cross member assembly (10 of 13)



11. Remove one e-ring (callout 1), slide the gear shaft to the left (callout 2), remove one bushing (callout 3), and then move the gear shaft out of the way.

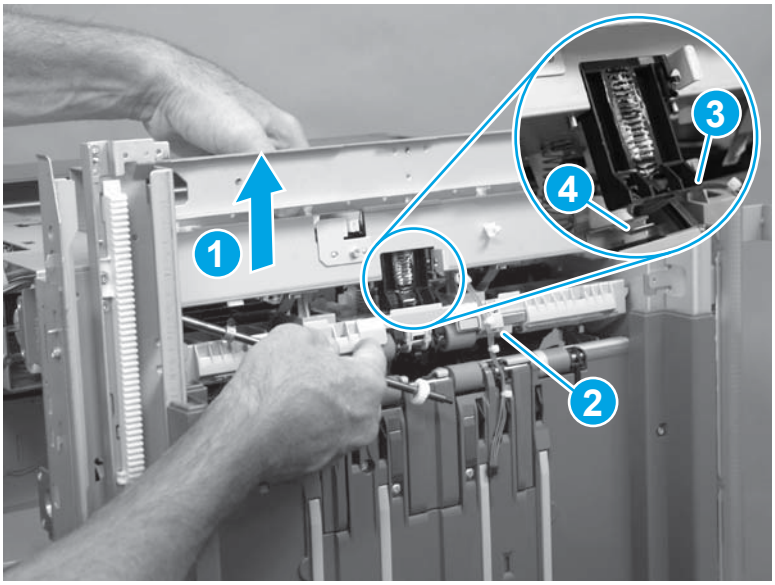
⚠ CAUTION: Do not lose the bushing (callout 3).

Figure 1-783 Remove the upper cross member assembly (11 of 13)



12. Carefully rotate the edge of the upper cross member assembly up (callout 1), support the swing guide assembly (callout 2), and then separate the swing-pressure rack (callout 3) from the sheet-metal tab (callout 4).

Figure 1-784 Remove the upper cross member assembly (12 of 13)



13. Remove the assembly.

⚠ CAUTION: The black plastic bracket (callout 1) along the front edge of the assembly and the spring (callout 2) underneath the assembly are not captive. Do not lose these parts when removing or handling the assembly.

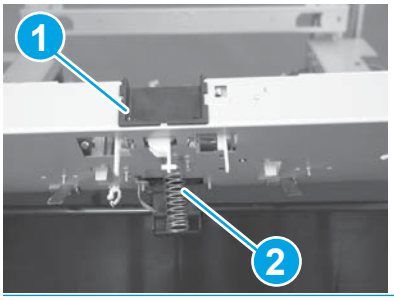
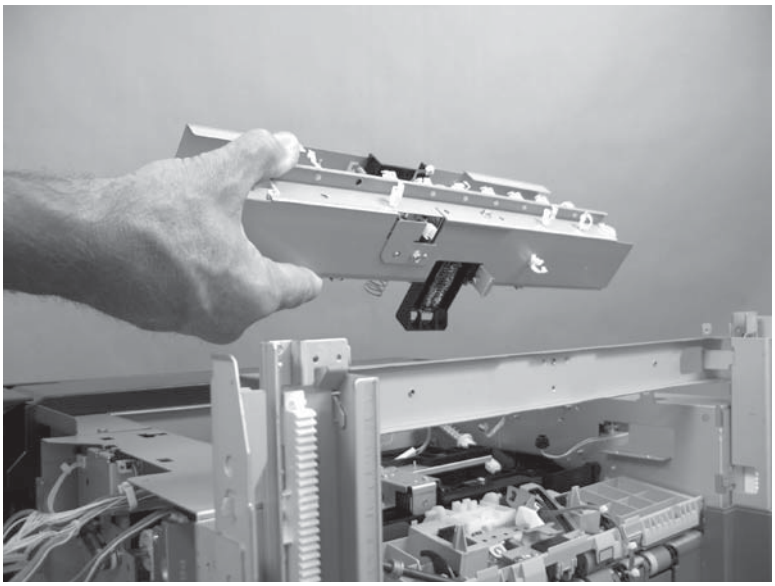


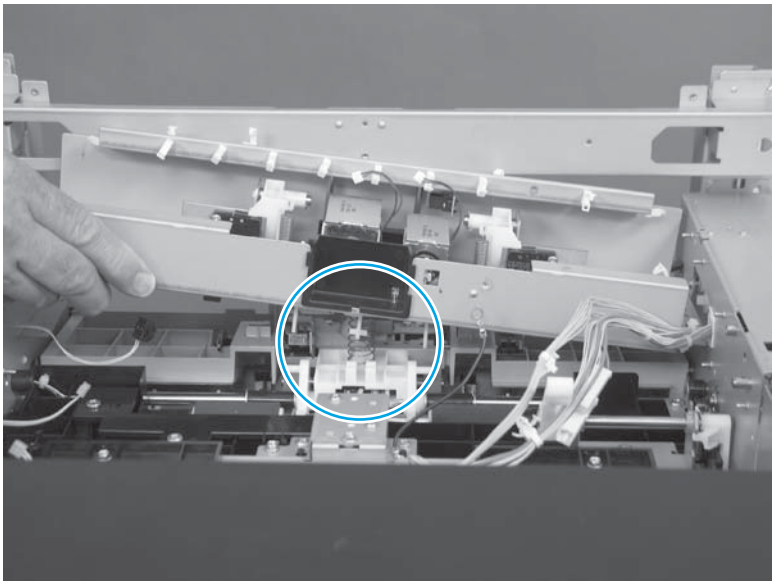
Figure 1-785 Remove the upper cross member assembly (13 of 13)



Reinstall the upper cross member assembly

1. When the assembly is positioned in the accessory, make sure that the spring underneath the assembly is seated on the pedestal on the swing guide.

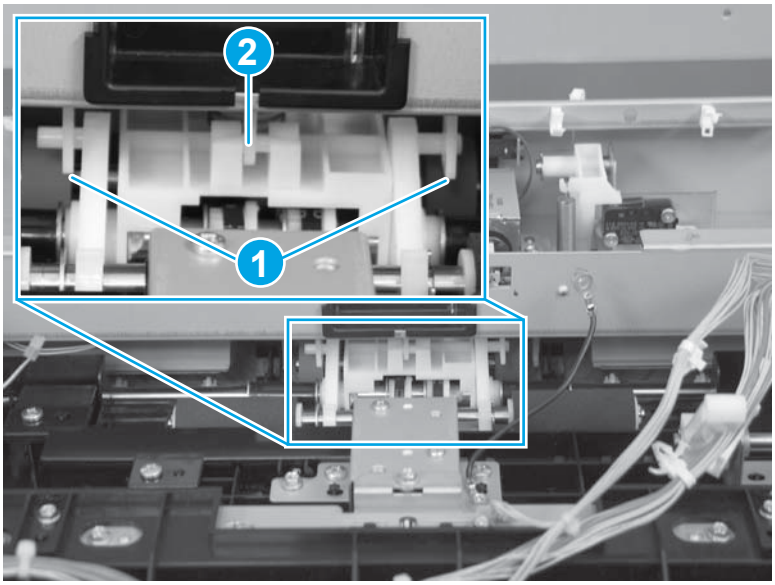
Figure 1-786 Reinstall the upper cross member assembly (1 of 7)



2. Verify that the two pivot arms are positioned in front of the pins (callout 1), and that the locking bar is seated in the cradle (callout 2).

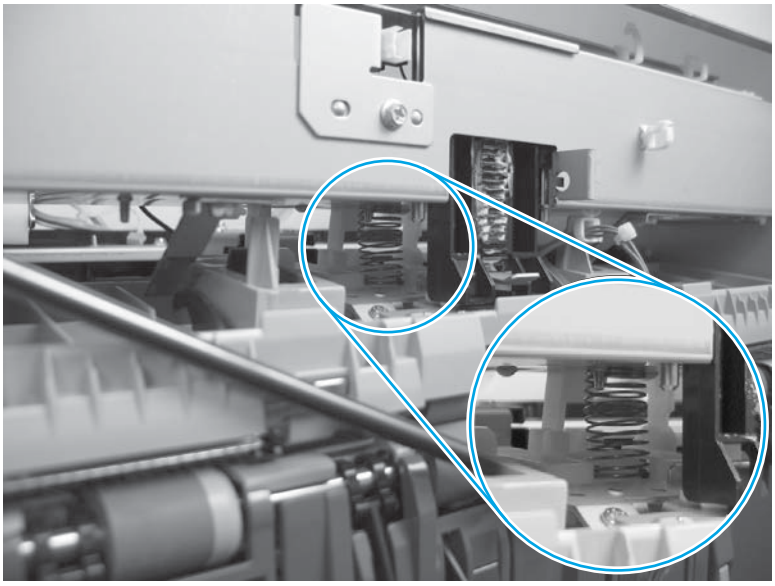
Reinstallation tip If after the upper cross member assembly is removed and replaced the message **13.60.A1 Jam in Top Left Door** appears on the control panel display (or in the event log) after the product power is turned on, the two pivot arms or the locking bar might not have been properly installed.

Figure 1-787 Reinstall the upper cross member assembly (2 of 7)



3. Install the mounting screws to secure the assembly to the chassis. Recheck the spring underneath the assembly. Verify that the spring is correctly positioned.

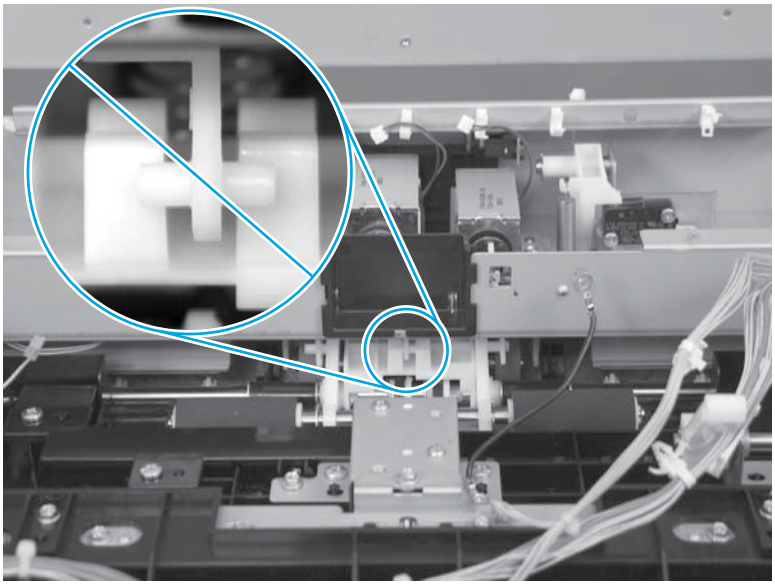
Figure 1-788 Reinstall the upper cross member assembly (3 of 7)



4. Recheck the locking bar underneath the assembly. Verify that it is correctly positioned in the cradle. If it is not correctly positioned, slightly lift up the upper cross member assembly and reposition the locking bar in the cradle.

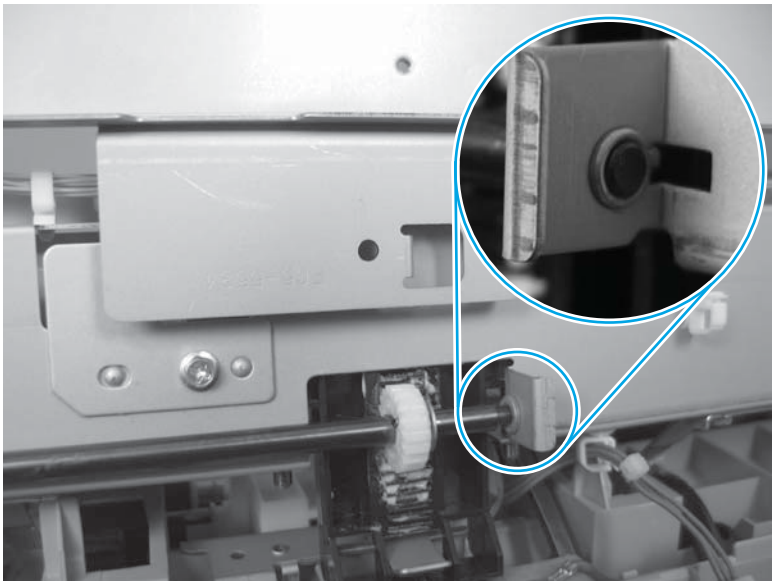
TIP: If necessary, slightly loosen, but do not remove, the assembly mounting screws to allow the assembly to be lifted up. Make sure that you retighten the mounting screws.

Figure 1-789 Reinstall the upper cross member assembly (4 of 7)



5. To reinstall the gear shaft right-side bushing, align the keyed portion of the bushing with the slot in the chassis mounting tab.

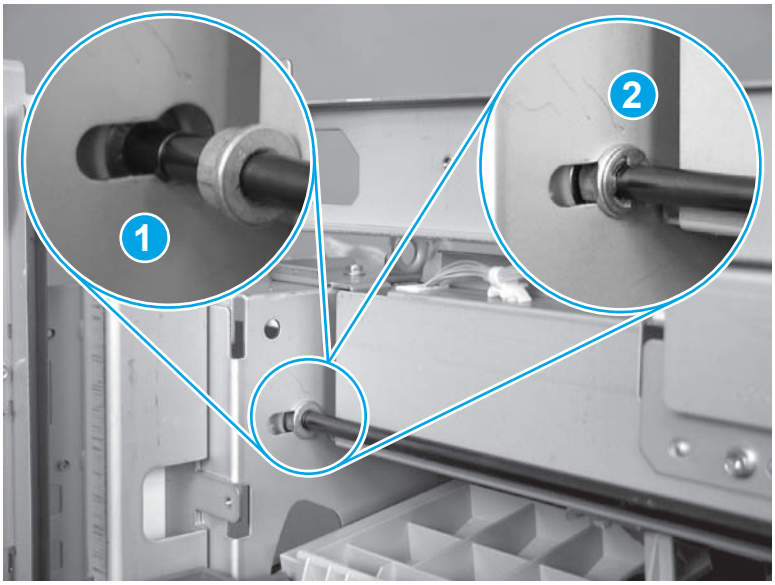
Figure 1-790 Reinstall the upper cross member assembly (5 of 7)



6. To reinstall the gear shaft left-side bushing, align the keyed portion of the bushing with the slot in the chassis (callout 1), and then install the e-ring (callout 2).

Reinstallation tip If the e-ring slot on the gear shaft is not visible, make sure that the drive gear, clutch, and pin—on the drive gear side of the shaft—are correctly assembled. If necessary, see the following optional step to reassemble the gear-shaft-pin assembly.

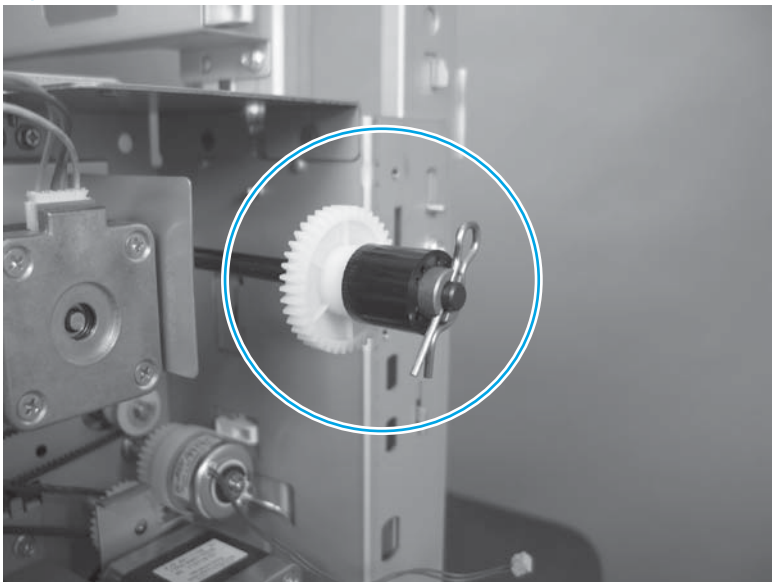
Figure 1-791 Reinstall the upper cross member assembly (6 of 7)



7. **Optional step**: Make sure that the clutch is correctly position on the gear—two tabs on the clutch engage two slots on the gear face—and that the pin is positioned in the slot on the end of the shaft.

   Reinstall the gear shaft left-side bushing, and then install the e-ring (callout 2). See Figure 1-791 Reinstall the upper cross member assembly (6 of 7) on page 531.

Figure 1-792 Reinstall the upper cross member assembly (7 of 7)



Paper feed drive assembly

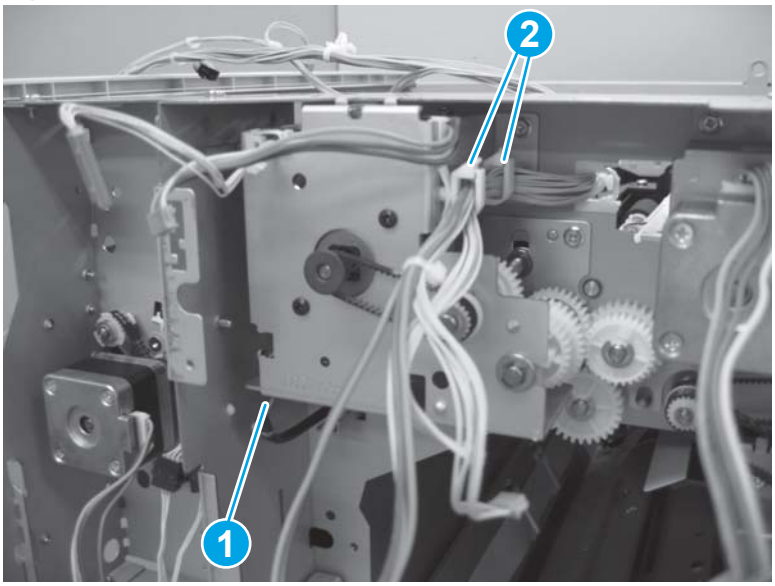
Before proceeding, remove the following assemblies:

- Bin cable guide cover. See Bin cable guide cover on page 492.
- Rear cover assembly. See Rear cover assembly on page 496.
- Main controller PCA assembly. See Main controller PCA assembly on page 498.

Remove the paper feed drive assembly

1. Disconnect one connector (callout 1) and then release two retainers (callout 2).

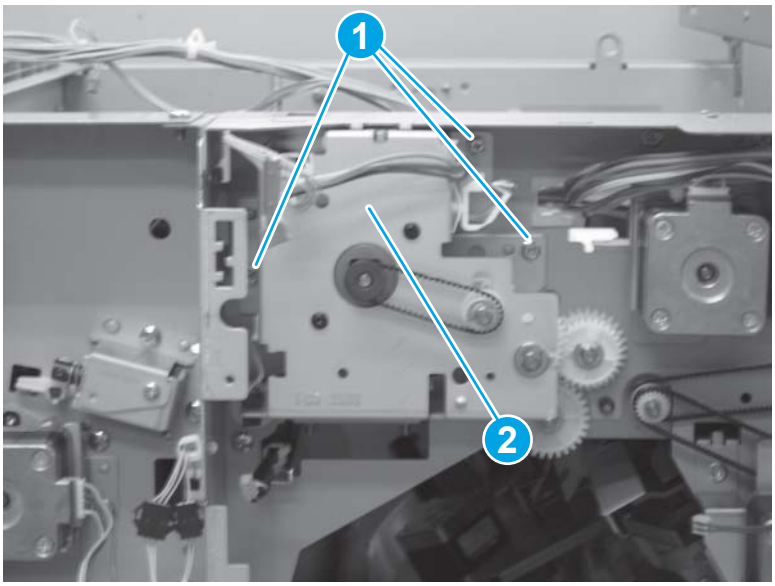
Figure 1-793 Remove the paper feed drive assembly (1 of 2)



2. Remove three screws (callout 1), and then remove the paper feed drive assembly (callout 2).

NOTE: As you remove the assembly, slip the drive belt located behind the assembly off of the drive gear. Do not lose the belt.

Figure 1-794 Remove the paper feed drive assembly (2 of 2)



Pressure roller assembly

Before proceeding, remove the following assemblies:

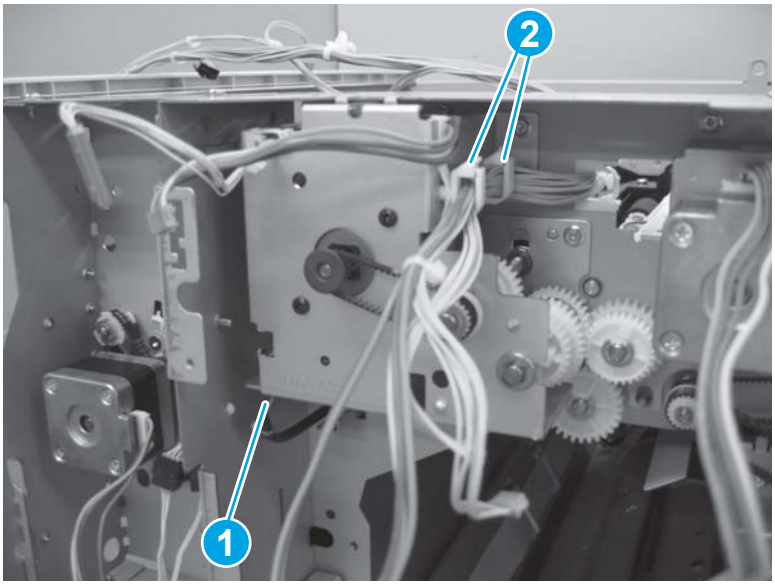
- Latch lower covers (front and rear). See Latch lower covers (front and rear) on page 468.
- Open/closed stepped cover assembly. See Open/closed stepped cover assembly on page 471.
- Upper stepped cover assembly. See Upper stepped cover assembly on page 472.
- Lower stepped cover assembly. See Lower stepped cover assembly on page 474.
- Top cover assembly. See Top door assembly on page 478.
- Front door. See Front door on page 479.
- Inner upper cover assembly. See Inner upper cover assembly on page 480.
- Bin cable guide cover. See Bin cable guide cover on page 492.
- Rear cover assembly. See Rear cover assembly on page 496.
- Main controller PCA assembly. See Main controller PCA assembly on page 498.
- Stack wall upper cover assembly. See Stack wall upper assembly and upper wall guide assembly on page 518.
- Upper cross member assembly. See Upper cross member assembly on page 521.

Remove the pressure roller assembly

NOTE: Some of the figures in this procedure show white plastic drive gears. The gears in the accessory are black plastic. However, this removal procedure is correct for this accessory.

1. Disconnect one connector (callout 1) and then release two retainers (callout 2).

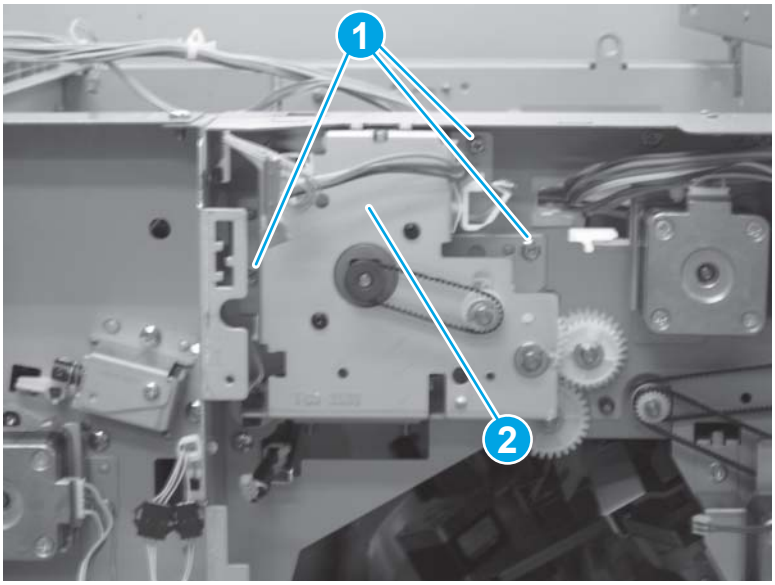
Figure 1-795 Remove the pressure roller assembly (1 of 8)



2. Remove three screws (callout 1), and then remove the paper feed motor assembly (callout 2).

NOTE: As you remove the assembly, slip the drive belt located behind the assembly off of the drive gear. Do not lose the belt. Make sure that you connect the belt to the gear when the paper feed motor assembly is reinstalled.

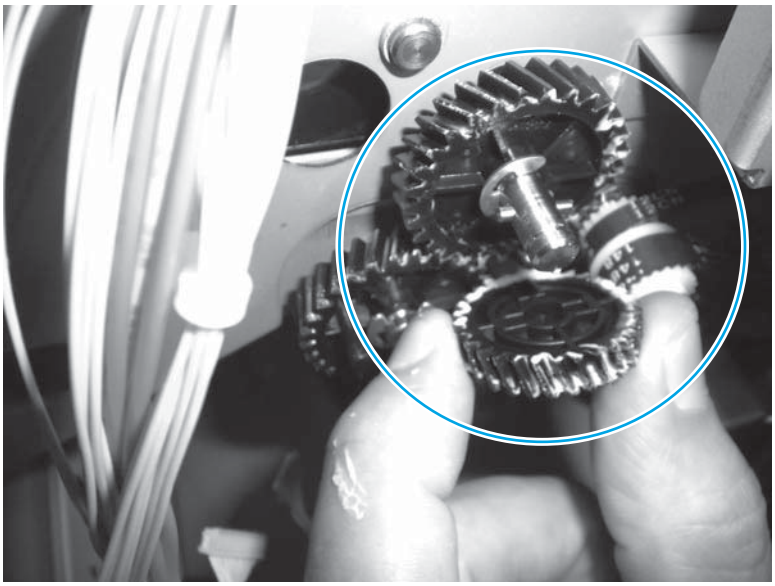
Figure 1-796 Remove the pressure roller assembly (2 of 8)



3. Rotate the outer gear until the square box on the face of the gear is facing down. This horizontally aligns the locking pin behind the gear, and lessens the possibility of the pin falling into the accessory when the gear is removed in the next step.

NOTE: The outer gear is shown removed in the figure below.

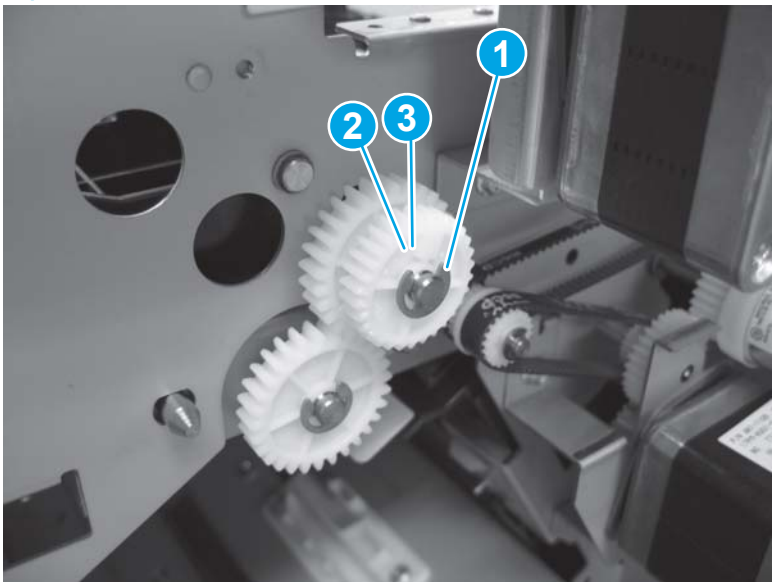
Figure 1-797 Remove the pressure roller assembly (3 of 8)



4. Remove one e-ring (callout 1), one gear (callout 2), and one pin (callout 3) behind the gear.

Reinstallation tip Use the horizontal pin alignment described above to reinstall the pin.

Figure 1-798 Remove the pressure roller assembly (4 of 8)

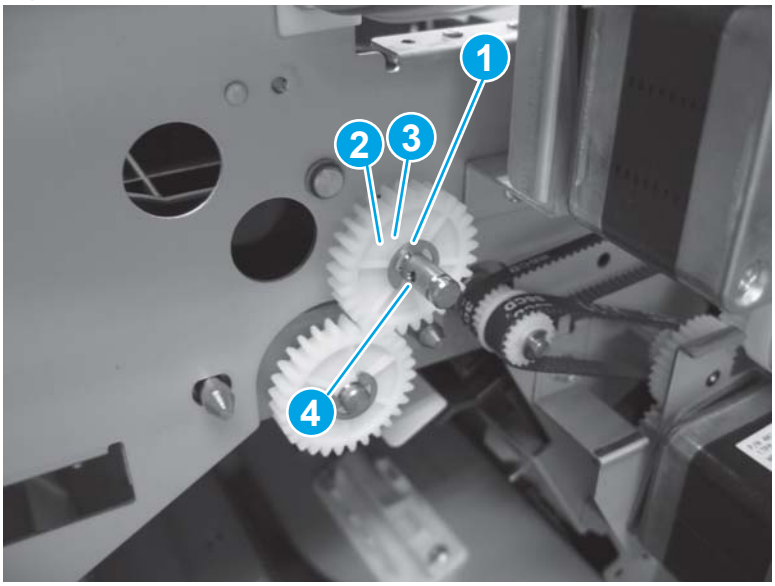


5. Remove one e-ring (callout 1), one gear (callout 2), and one pin (callout 3) behind the gear.

NOTE: Before proceeding, rotate the inner gear until the visible hole in the shaft (callout 4) is horizontal to prevent the locking pin behind the gear from falling out of the shaft.

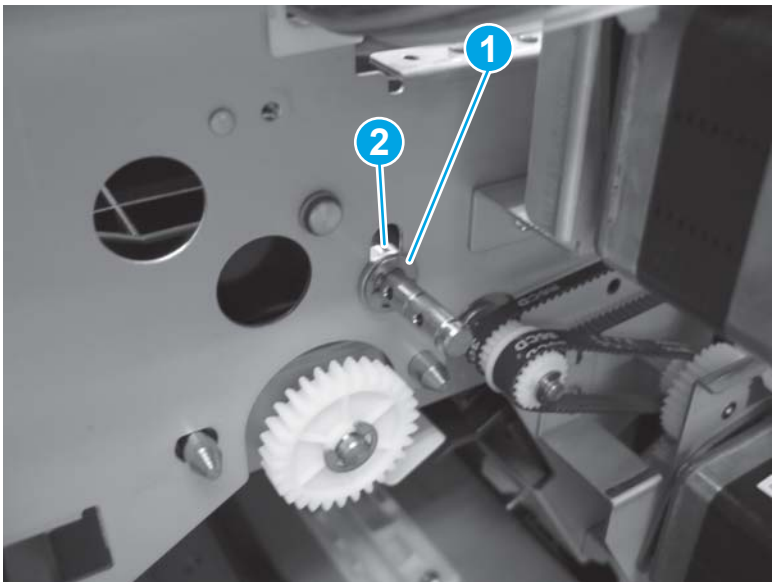
Reinstallation tip Use the horizontal pin alignment described above to reinstall the pin.

Figure 1-799 Remove the pressure roller assembly (5 of 8)



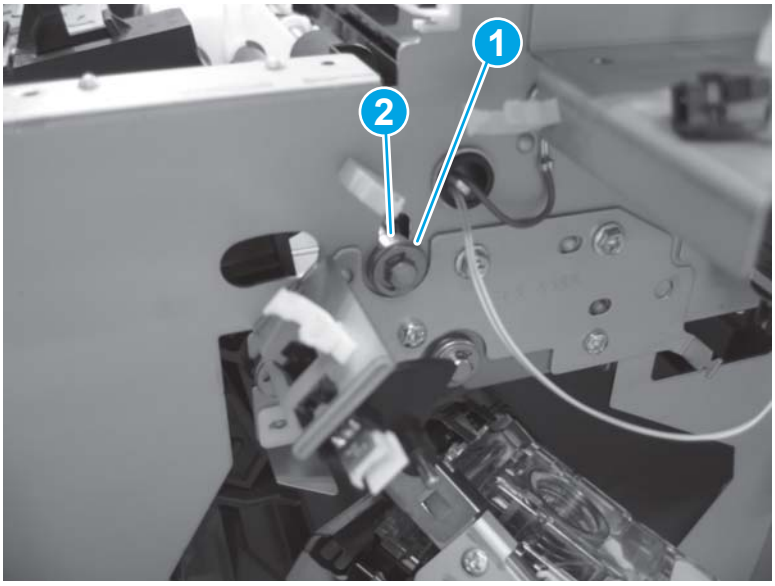
6. Remove the e-ring (callout 1) and then remove one bushing (callout 2).

Figure 1-800 Remove the pressure roller assembly (6 of 8)



7. At the opposite side of the accessory, remove the e-ring (callout 1) and then remove one bushing (callout 2).

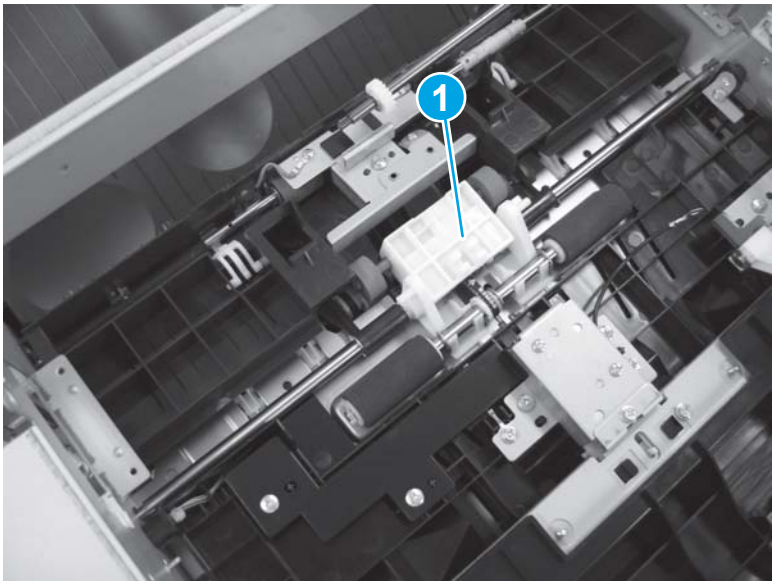
Figure 1-801 Remove the pressure roller assembly (7 of 8)



8. Grasp the plastic component (callout 1) in the middle of the assembly, lift it up to clear the metal bracket, and then slide the assembly to the rear to release the front of the shaft. Lift the pressure roller assembly out of the accessory to remove it.

Reinstallation tip When the assembly is reinstalled, first position the rear of the shaft in the hole of the chassis.

Figure 1-802 Remove the pressure roller assembly (8 of 8)



Stack upper bin and lower bin assemblies

Before proceeding, remove the following assemblies:

- Latch lower covers (front and rear). See Latch lower covers (front and rear) on page 468.
- Open/closed stepped cover assembly. See Open/closed stepped cover assembly on page 471.
- Upper stepped cover assembly. See Upper stepped cover assembly on page 472.
- Lower stepped cover assembly. See Lower stepped cover assembly on page 474.
- Remove the following assemblies only if you need to remove the lower bin:
  - Front door. See Front door on page 479.
  - Inner upper cover assembly. See Inner upper cover assembly on page 480.
- Bin cable guide cover. See Bin cable guide cover on page 492.
- Rear cover assembly. See Rear cover assembly on page 496.
- Stack wall upper cover assembly. See Stack wall upper assembly and upper wall guide assembly on page 518.

Remove stack upper bin and lower bin assemblies

NOTE: The stack upper bin assembly and the stack lower bin assembly look identical, but are different. Do not reverse the locations of the bins when they are reinstalled.

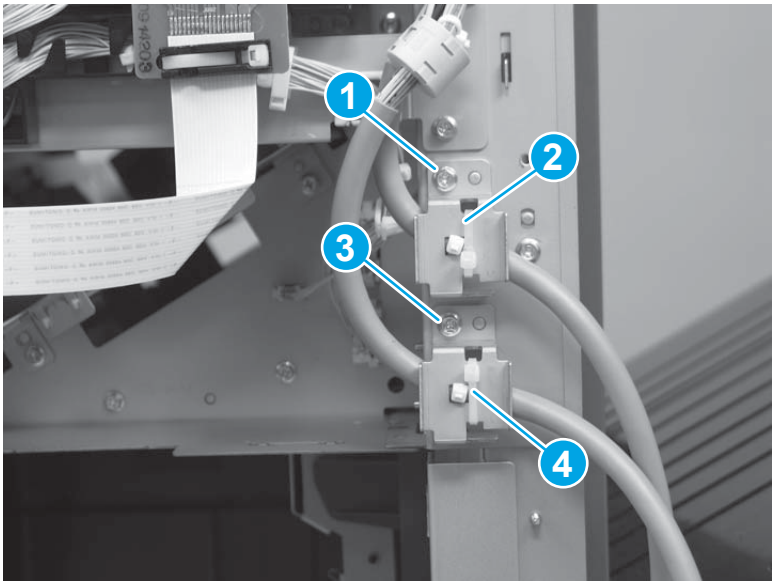
The upper bin assembly has two connectors and a ground wire at the end of the cable. The lower bin assembly has only one connector and a ground wire at the end of the cable. Also, the lower bin assembly has a coil around the end of the cable.

1. Do the following:

   Stack upper bin assembly: Remove one screw (callout 1), and then remove the upper sheet-metal cable retainer (callout 2).

   Stack lower bin assembly: Remove one screw (callout 3), and then remove the lower sheet-metal cable retainer (callout 4).

   Figure 1-803 Remove the stack upper bin and lower bin assemblies (1 of 5)

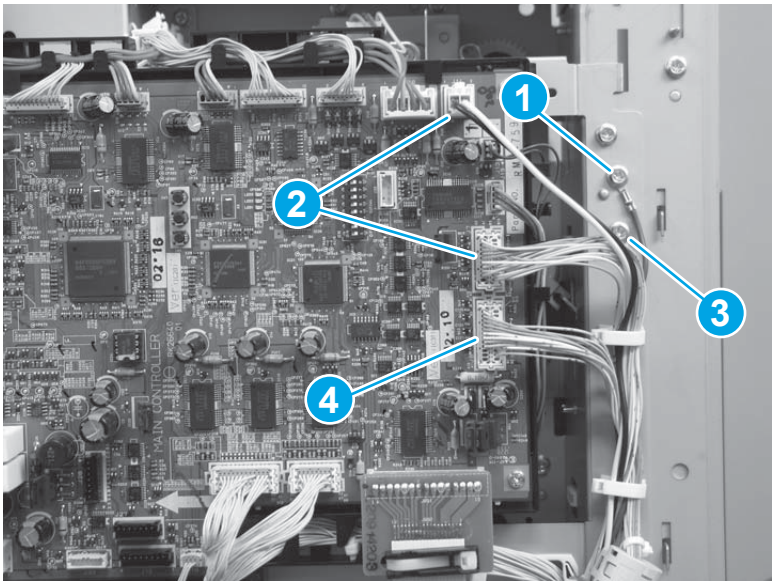
   

2. Release the wire harnesses from two retainers, and then do the following:

   Stack upper bin assembly: Remove one ground screw (callout 1), and then disconnect two connectors (callout 2) on the controller PCA (J7 and J14).

   Stack lower bin assembly: Remove one ground screw (callout 3), and then disconnect one connector (callout 4) on the controller PCA (J8).

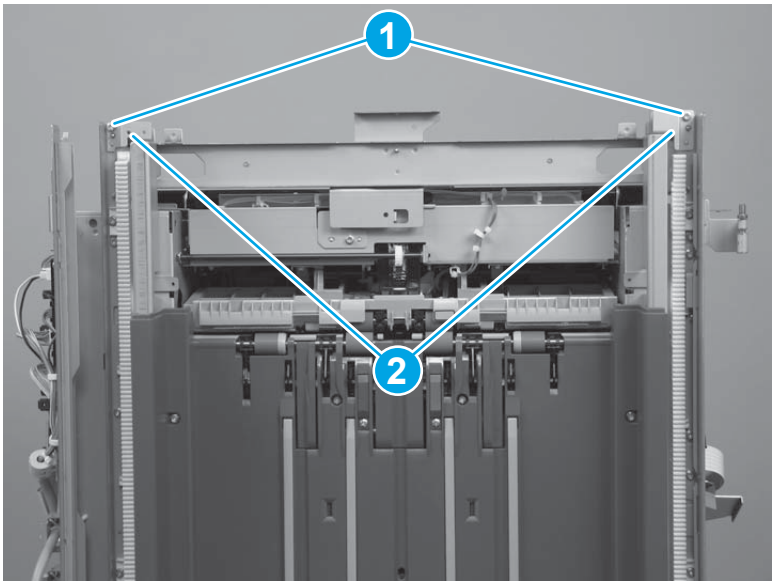
   Figure 1-804 Remove the stack upper bin and lower bin assemblies (2 of 5)



3. Remove two screws (callout 1) and the sheet-metal stop brackets (callout 2).

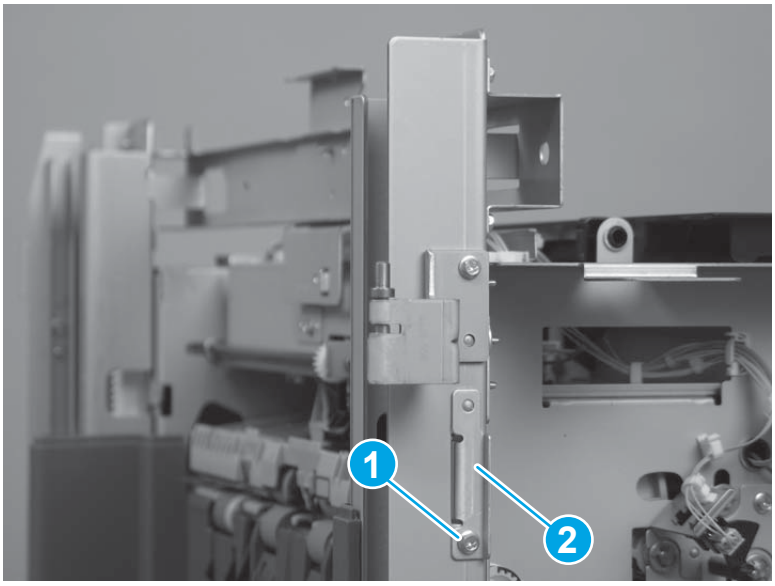
TIP: The upper bin can be removed now.

Figure 1-805 Remove the stack upper bin and lower bin assemblies (3 of 5)



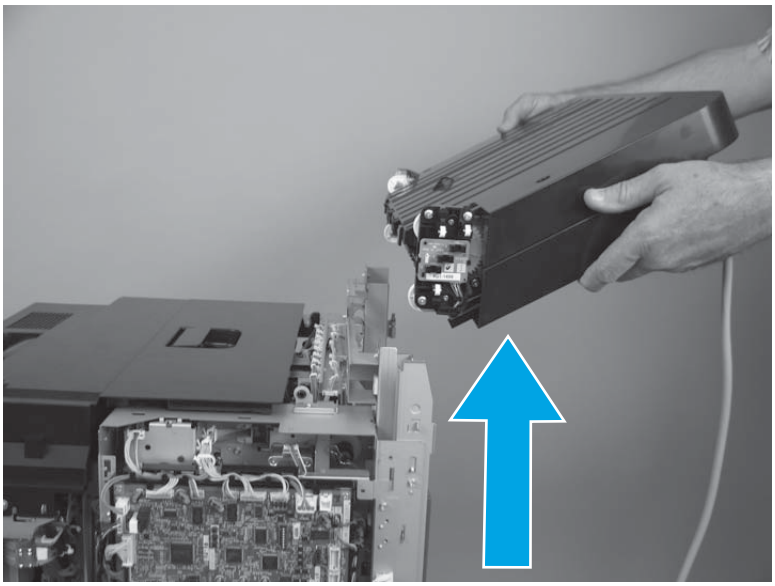
4. **Lower bin assembly only**: If you are removing the lower bin, remove one screw (callout 1), and then remove the sheet-metal stop bracket (callout 2).

Figure 1-806 Remove the stack upper bin and lower bin assemblies (4 of 5)



5. Carefully slide the bin up and off of the finishing accessory.

Figure 1-807 Remove the stack upper bin and lower bin assemblies (5 of 5)



Reinstall the stack upper bin and lower bin assemblies

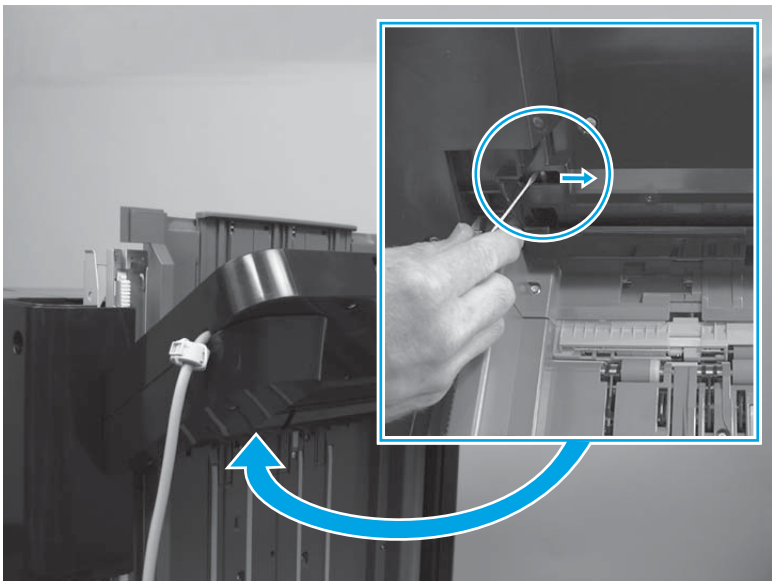
When the bins are reinstalled, use the following procedure to release the clutch and slide the bin down onto the accessory.

⚠ **CAUTION:** If both of the bins are reinstalled, do not install the upper bin directly on top of the lower bin. Leave a vertical gap between the bins. If the bins are not separated, an error message will appear on the control-panel display, and the bins might be damaged when the product power is turned on.

1. Support the bin.
2. Release the bin clutch located on the underside of the bin, and then lower the bin to access the cover.

TIP: Use a small flat-blade screwdriver to slide the raised portion of the clutch toward the spring to release the clutch and lower the bin.

Figure 1-808 Reinstall the stack wall upper assembly and upper wall guide assembly (1 of 2)

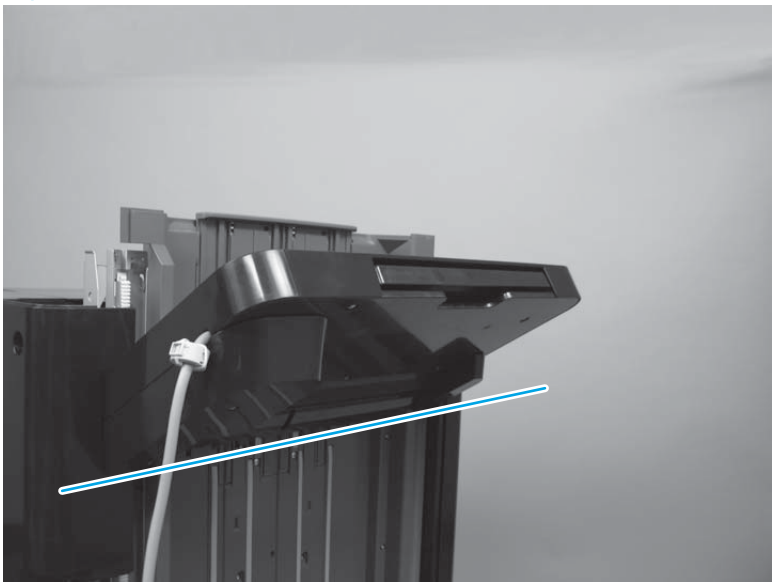


3. The bins must be installed so that they are level from side to side so that they will not bind on the track. If after installing the bins they are not level from side to side, remove them, and then reinstall the bins.

CAUTION: The bins might be damaged when they move up and down if they are not correctly installed.

TIP: Lower the installed bin down to the exit rollers to check for level installation.

Figure 1-809 Reinstall the stack wall upper assembly and upper wall guide assembly (2 of 2)



Height wall assembly

NOTE: This assembly is described in the parts chapter as the following:

- Height wall lower assembly (stapler/stacker and stapler stacker with hole punch)
- Height wall center assembly (booklet maker)

Before proceeding, remove the following assemblies:

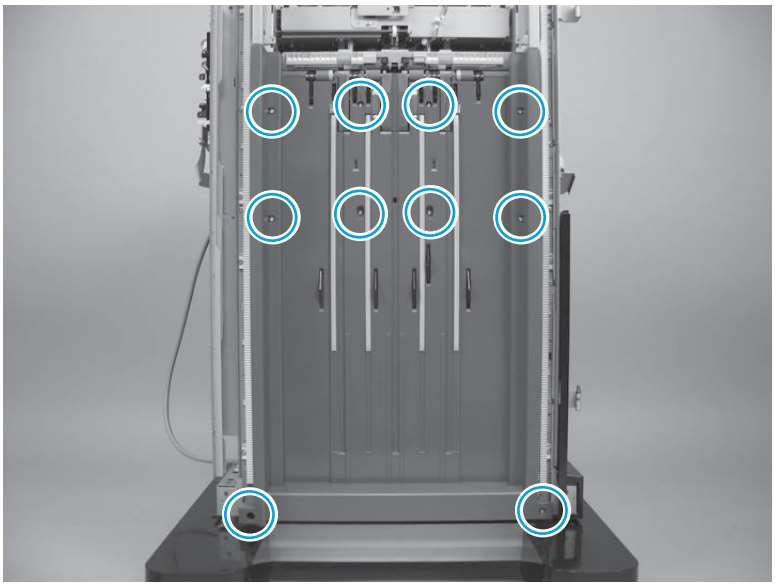
- Open/closed stepped cover assembly. See Open/closed stepped cover assembly on page 471.
- Upper stepped cover assembly. See Upper stepped cover assembly on page 472.
- Lower stepped cover assembly. See Lower stepped cover assembly on page 474.
- Bin cable guide cover. See Bin cable guide cover on page 492.
- Rear cover assembly. See Rear cover assembly on page 496.
- Stack wall upper cover assembly. See Stack wall upper assembly and upper wall guide assembly on page 518.
- Stack upper bin and lower bin assemblies. See Stack upper bin and lower bin assemblies on page 540.

Remove the height wall center assembly

NOTE: The following figures show the height wall assembly on the stapler/stacker with hole punch finishing accessory. This removal procedure is the same for all of the finishing accessories.

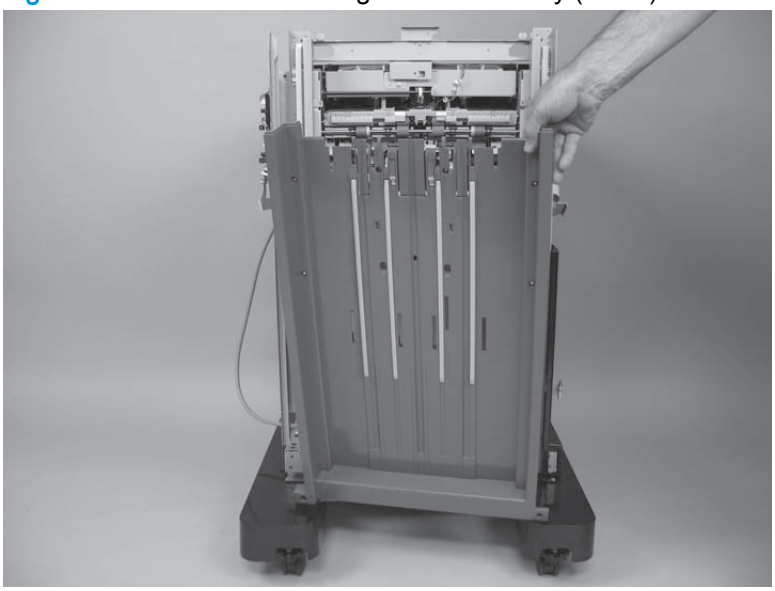
1. Remove ten screws.

Figure 1-810 Remove the height wall assembly (1 of 2)



2. Remove the cover.

Figure 1-811 Remove the height wall assembly (2 of 2)



Reinstall the height wall assembly

Make sure that the black bracket is in the down position when the height wall assembly is reinstalled. If the bracket is in the up position when the assembly is reinstalled, the upper stack wall will not move up and down.

Figure 1-812 Reinstall the height wall assembly

Paper face sensor and flag assembly

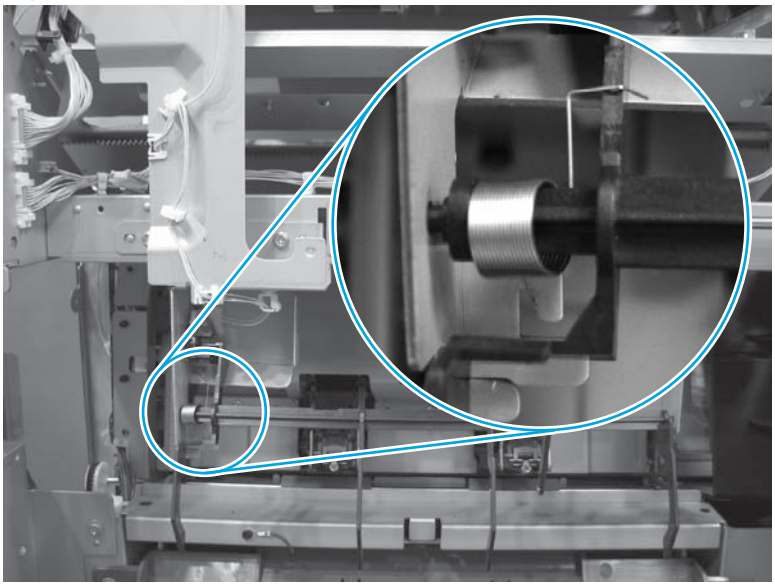
Before proceeding, remove the following assemblies:

- Open/closed stepped cover assembly. See Open/closed stepped cover assembly on page 471.
- Upper stepped cover assembly. See Upper stepped cover assembly on page 472.
- Lower stepped cover assembly. See Lower stepped cover assembly on page 474.
- Bin cable guide cover. See Bin cable guide cover on page 492.
- Rear cover assembly. See Rear cover assembly on page 496.
- Stack wall upper cover assembly. See Stack wall upper assembly and upper wall guide assembly on page 518.
- Stack upper bin and lower bin assemblies. See Stack upper bin and lower bin assemblies on page 540.
- Height wall assembly. See Height wall assembly on page 546.

Remove the paper face sensor and flag assembly

1. From the output side of the accessory, note how the spring on the left end of the flag is installed.

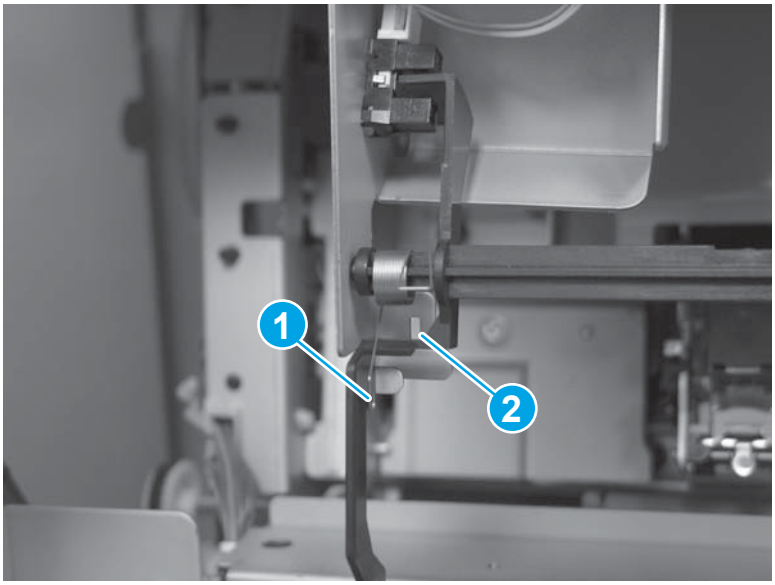
Figure 1-813 Remove the paper face sensor and flag assembly (1 of 9)



2. Disengage the bottom portion of the spring (callout 1) from the tab (callout 2) on the chassis.

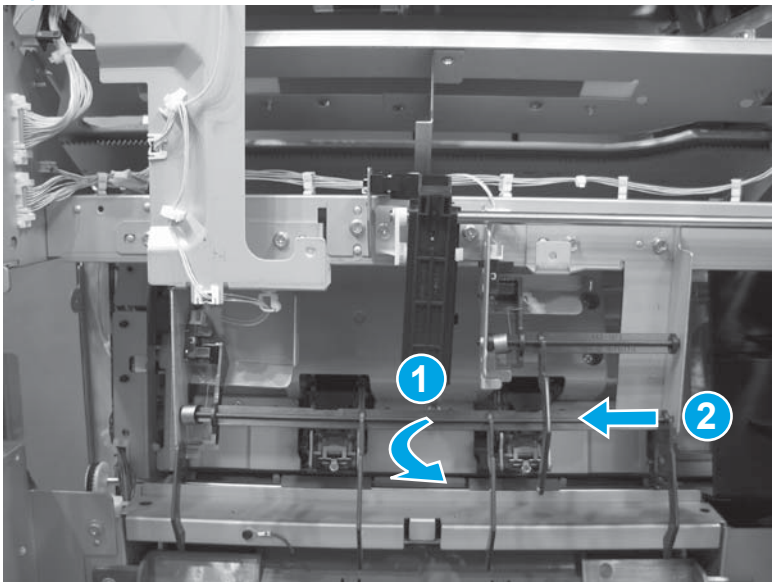
NOTE: The figure below shows the spring disengaged.

Figure 1-814 Remove the paper face sensor and flag assembly (2 of 9)



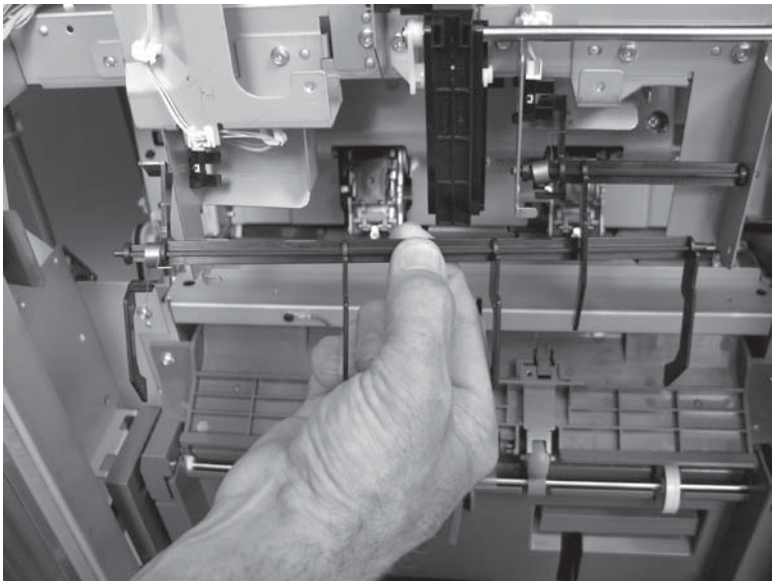
3. Carefully flex the middle of the flag shaft away from the accessory (callout 1), and then disengage the end of the shaft from the mounting hole in the chassis (callout 2).

Figure 1-815 Remove the paper face sensor and flag assembly (3 of 9)



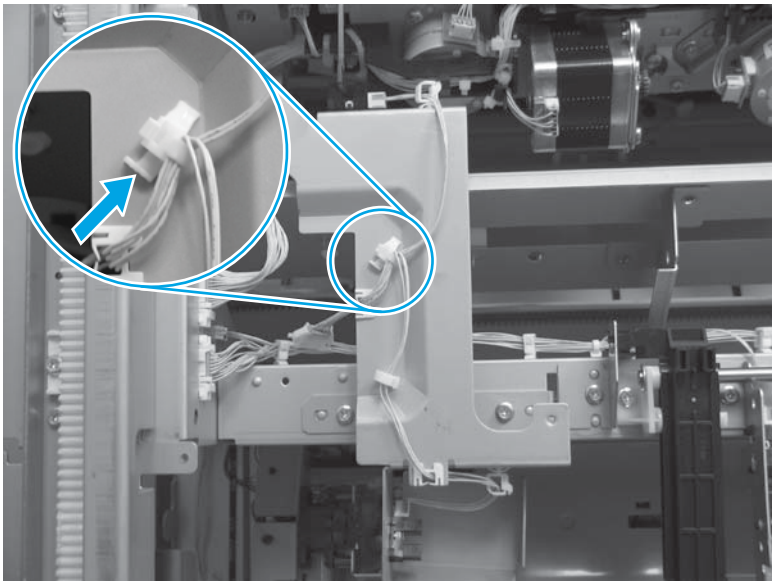
4. Remove the paper sensor flag.

Figure 1-816 Remove the paper face sensor and flag assembly (4 of 9)



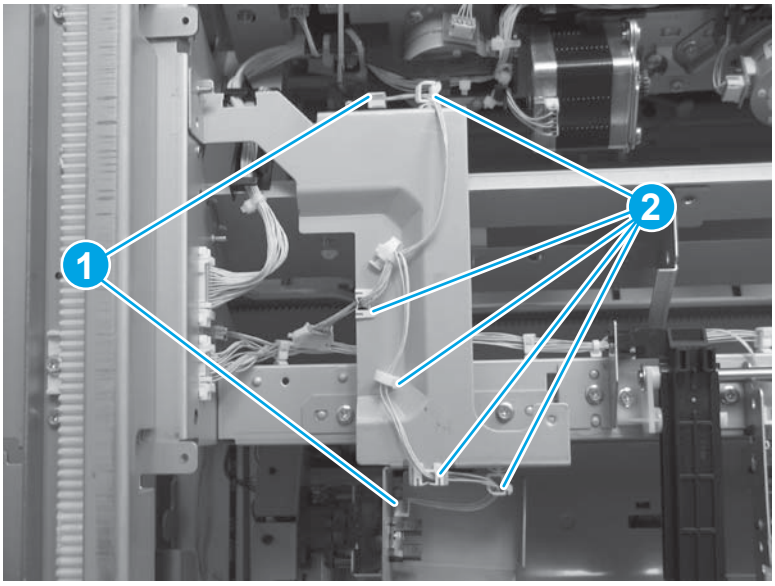
5. Release one tab, and then release the wire tie retainer.

Figure 1-817 Remove the paper face sensor and flag assembly (5 of 9)



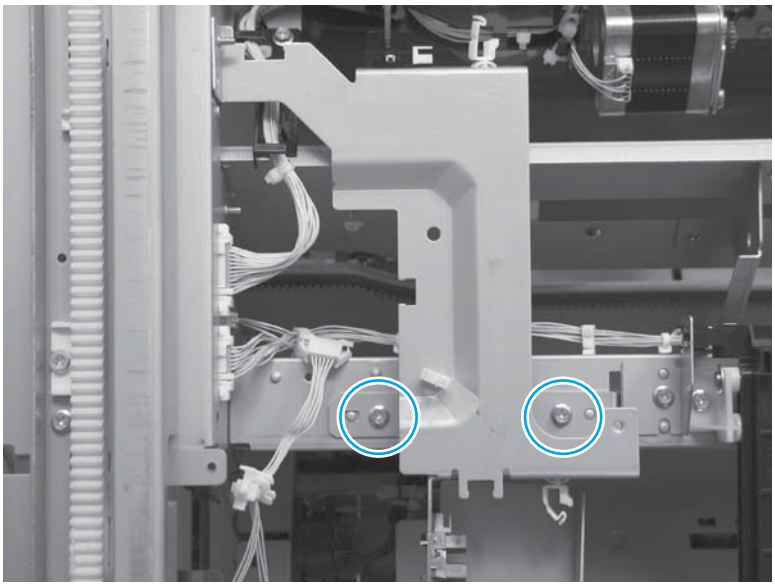
6. Disconnect two connectors (callout 1), and then release the wire harnesses from five retainers (callout 2).

Figure 1-818 Remove the paper face sensor and flag assembly (6 of 9)



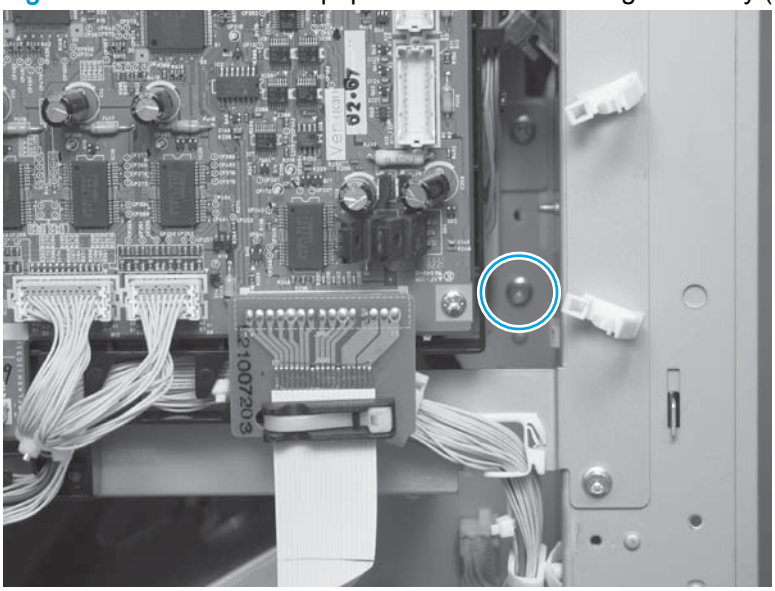
7. Remove two screws.

Figure 1-819 Remove the paper face sensor and flag assembly (7 of 9)



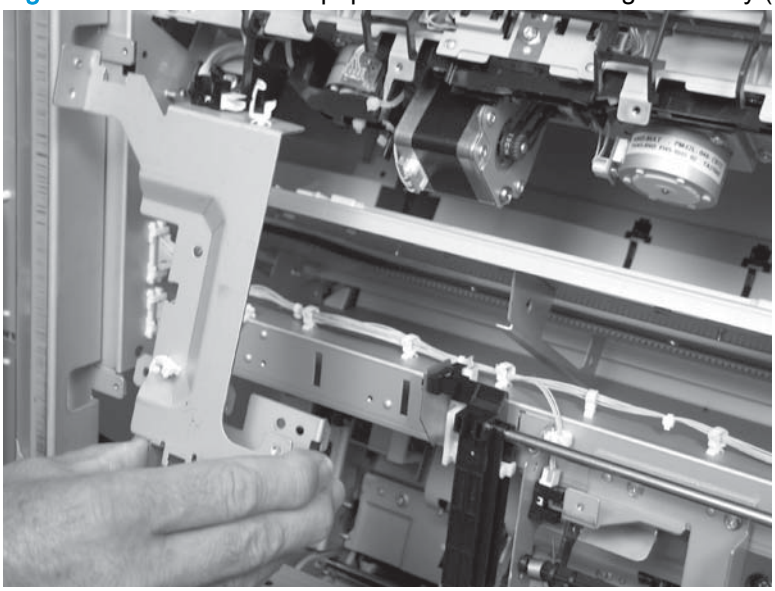
8. At the rear of the accessory, remove one screw.

Figure 1-820 Remove the paper face sensor and flag assembly (8 of 9)



9. Remove the assembly.

Figure 1-821 Remove the paper face sensor and flag assembly (9 of 9)



Staple subassembly

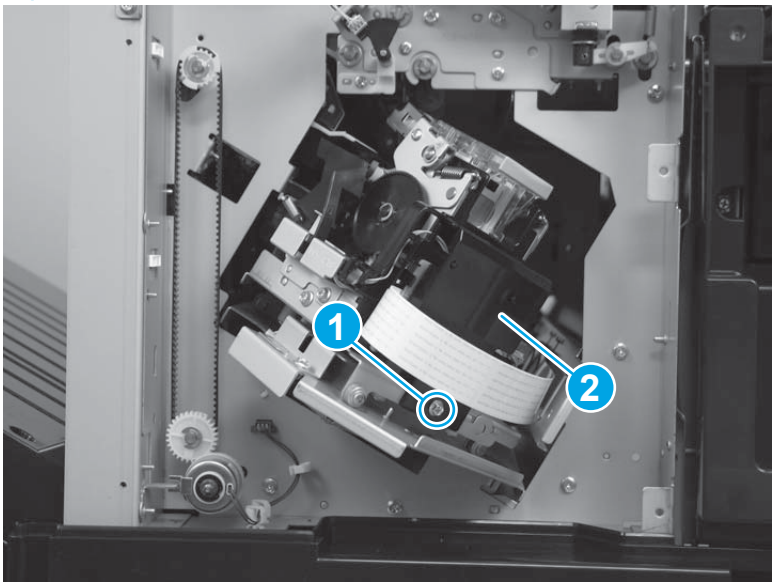
Before proceeding, do the following:

- Move the inner upper cover assembly out of the way. See Inner upper cover assembly on page 480.

Remove the staple subassembly

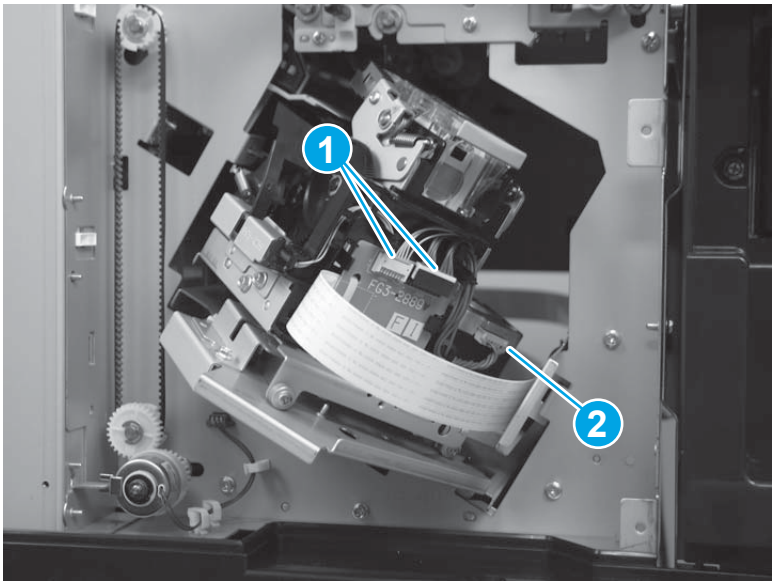
1. Remove one screw (callout 1), and then remove the protective cover (callout 2)

   Figure 1-822 Remove the staple subassembly (1 of 6)

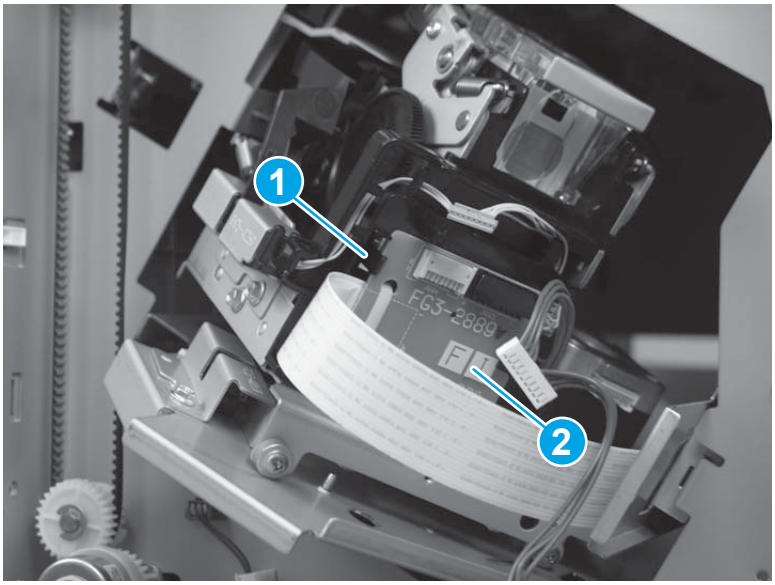
2. Disconnect two connectors (callout 1) on the PCA, and then disconnect one connector (callout 2) on the motor.

   Figure 1-823 Remove the staple subassembly (2 of 6)

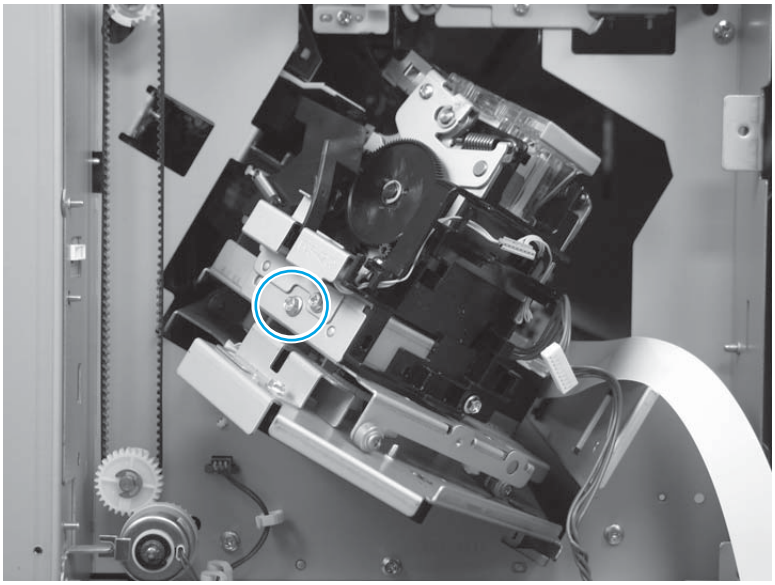
3. Release one tab (callout 1), and then remove the sub staple PCA (callout 2).

Figure 1-824 Remove the staple subassembly (3 of 6)



4. Remove one screw.

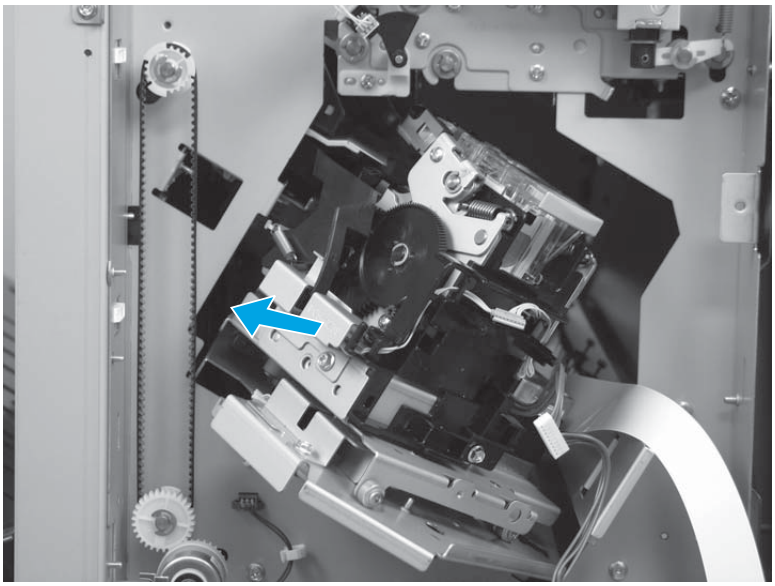
Figure 1-825 Remove the staple subassembly (4 of 6)



5. Slide the staple subassembly away from the staple subassembly motor to release the rear tabs of the assembly from the sheet-metal bracket.

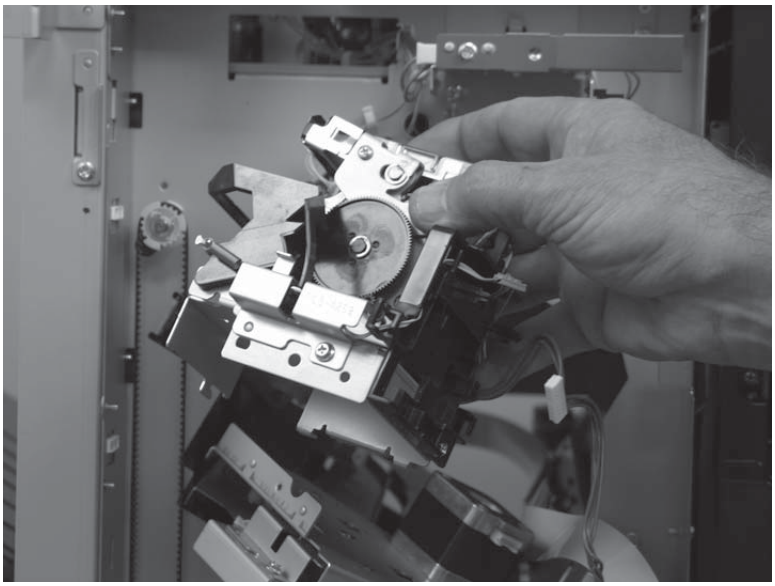
TIP: When you reinstall the staple subassembly, make sure that the rear tabs of the assembly engage the slots in the sheet-metal bracket.

Figure 1-826 Remove the staple subassembly (5 of 6)



6. Remove the staple subassembly.

Figure 1-827 Remove the staple subassembly (6 of 6)



Staple connecting cable assembly

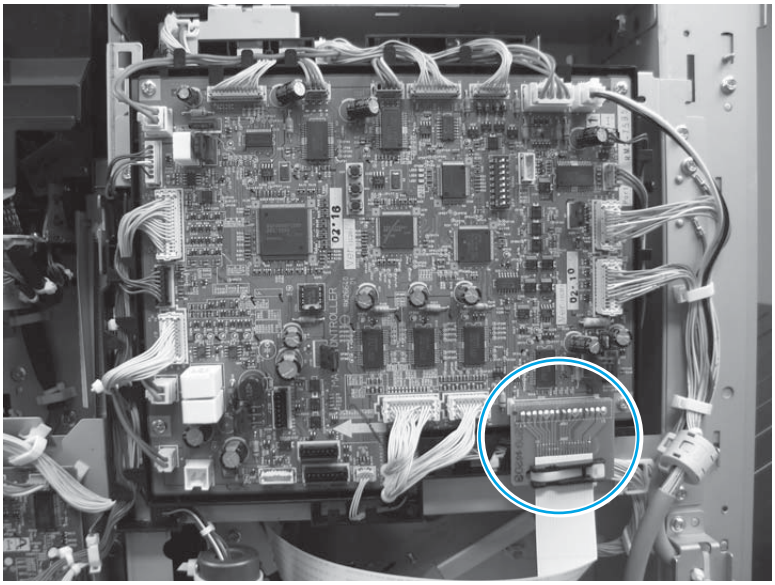
Before proceeding, remove the following assemblies:

- Move the inner upper cover assembly out of the way. See Inner upper cover assembly on page 480.
- Bin cable guide cover. See Bin cable guide cover on page 492.
- Rear cover assembly. See Rear cover assembly on page 496.
- Staple subassembly. See Staple subassembly on page 553.

Remove the staple connecting cable assembly

1. Disconnect one connector.

Figure 1-828 Remove the staple connecting cable assembly (1 of 2)

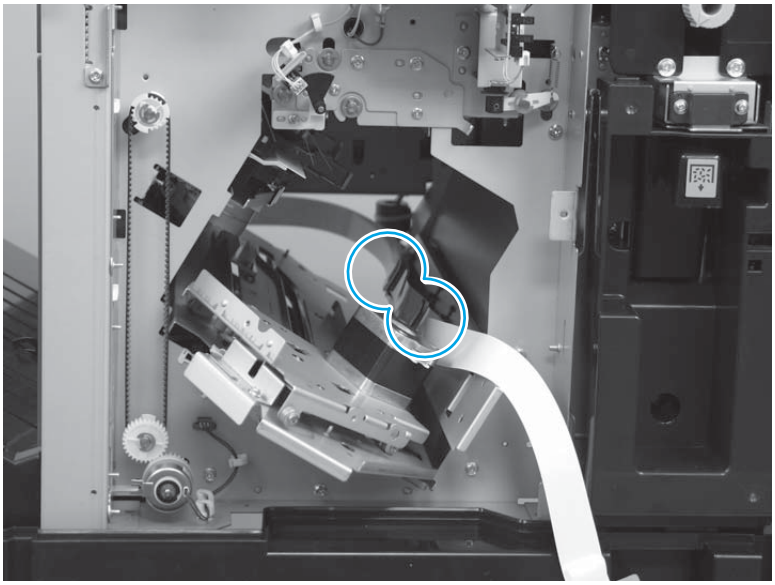


2. Release the cable from three retainers, and then remove the cable.

Reinstallation tip When the cable is reinstalled, make sure that it is positioned correctly and will not be pulled tight at either end when the staple subassembly moves along the staple assembly.

Align the black marks on the cable with the black marks on the chassis to place the cable in the correct position.

Figure 1-829 Remove the staple connecting cable assembly (2 of 2)



Staple assembly

Before proceeding, remove the following assemblies:

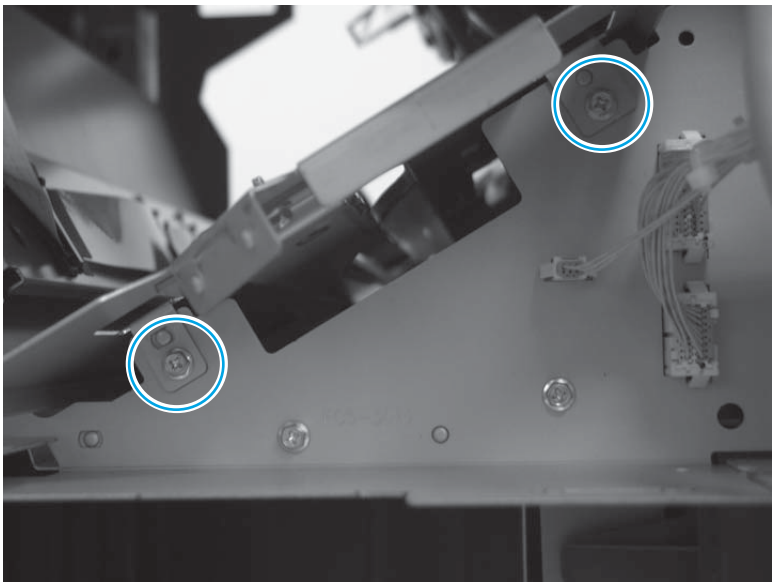
- Move the inner upper cover assembly out of the way. See Inner upper cover assembly on page 480.
- Bin cable guide cover. See Bin cable guide cover on page 492.
- Rear cover assembly. See Rear cover assembly on page 496.
- Staple subassembly. See Staple subassembly on page 553.

Remove the staple assembly

1. Remove two screws.

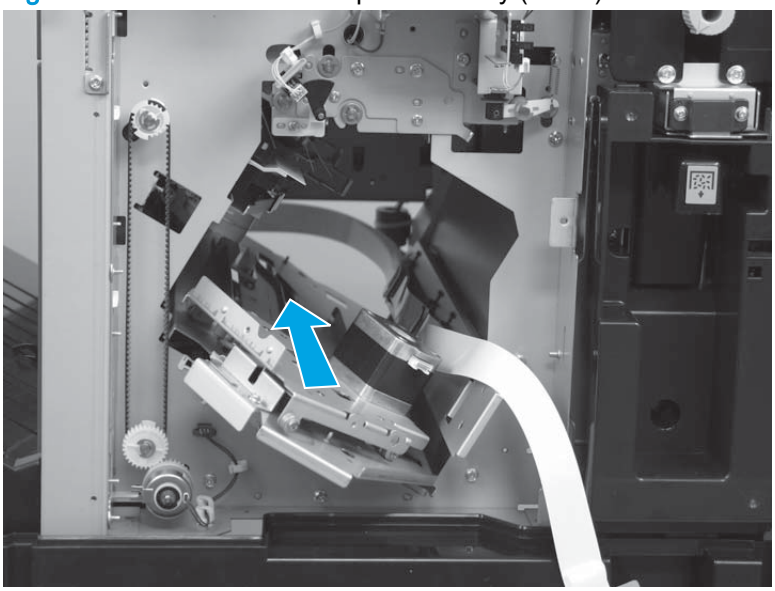
NOTE: These screws are located under the controller PCA at the rear side of the accessory.

Figure 1-830 Remove the staple assembly (1 of 7)



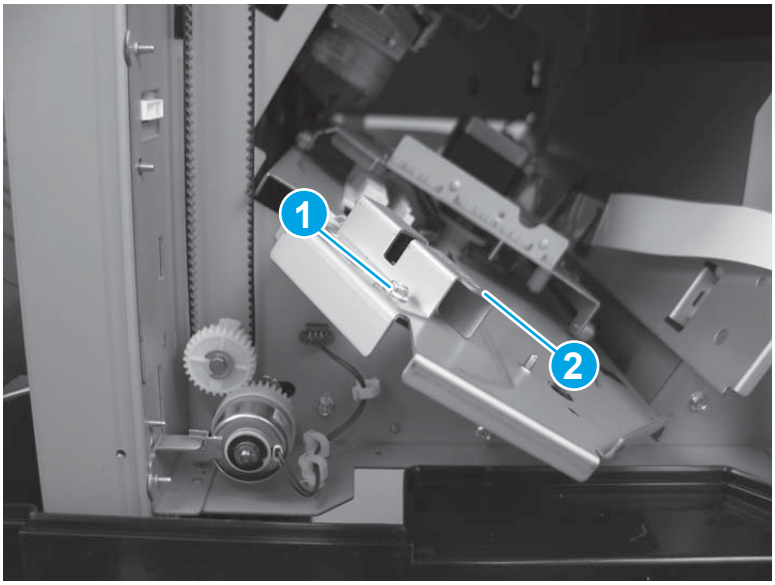
2. Carefully push the staple subassembly base into the accessory.

Figure 1-831 Remove the staple assembly (2 of 7)



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

Figure 1-832 Remove the staple assembly (3 of 7)

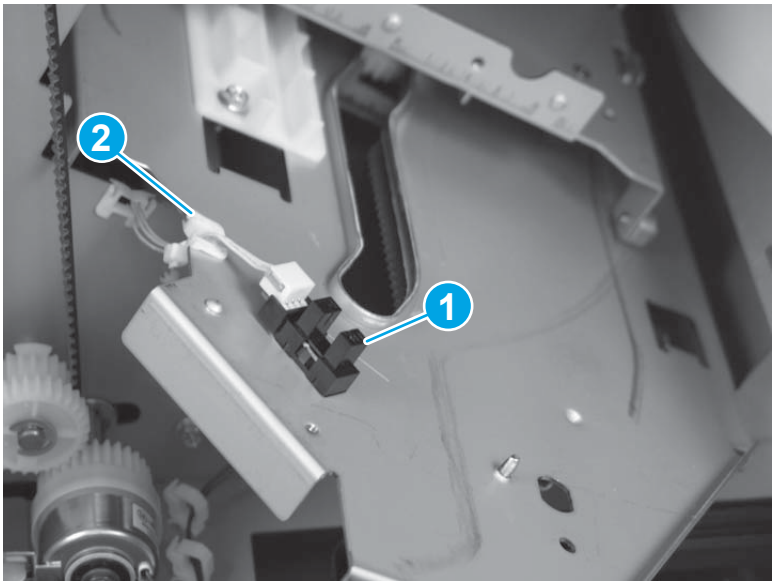


4. Release one sensor (callout 1), and then release one wire retainer (callout 2).

   To remove the sensor, use your finger to release the sensor tabs from the underside of the assembly.

TIP: It is easier to release the entire retainer from the sheet-metal stapler assembly tray than to try to release the wire harness from the retainer.

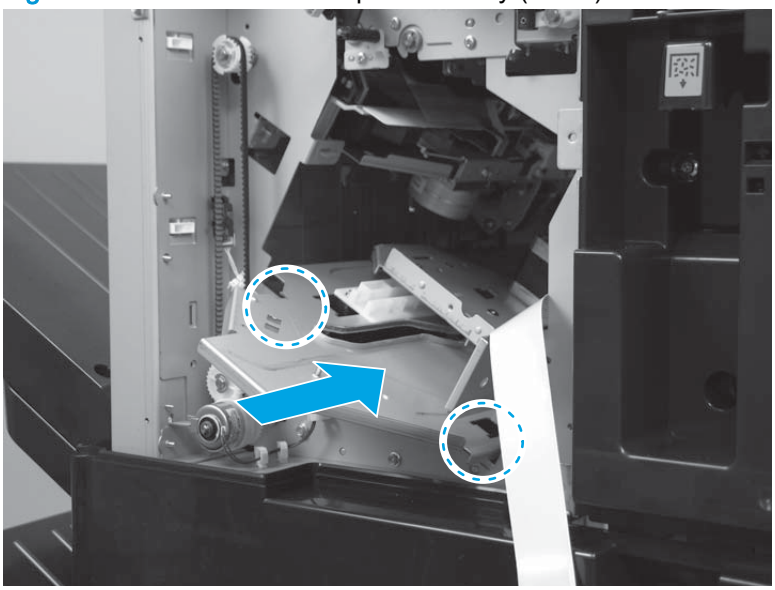
Figure 1-833 Remove the staple assembly (4 of 7)



5. Carefully push the stapler assembly about one-half way into the accessory to release two tabs under the front edge of the assembly.

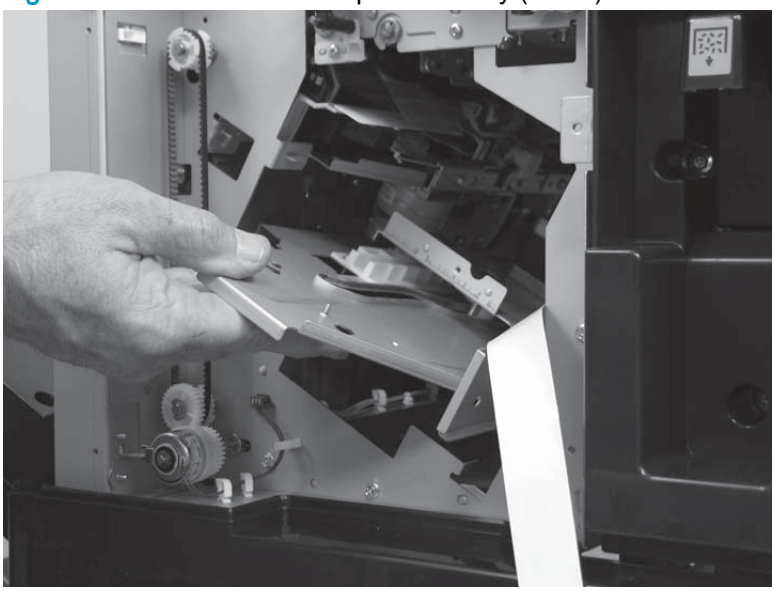
Reinstallation tip Make sure that the two tabs are engaged in the slots in the chassis when the assembly is reinstalled.

Figure 1-834 Remove the staple assembly (5 of 7)



6. Lift up the stapler assembly.

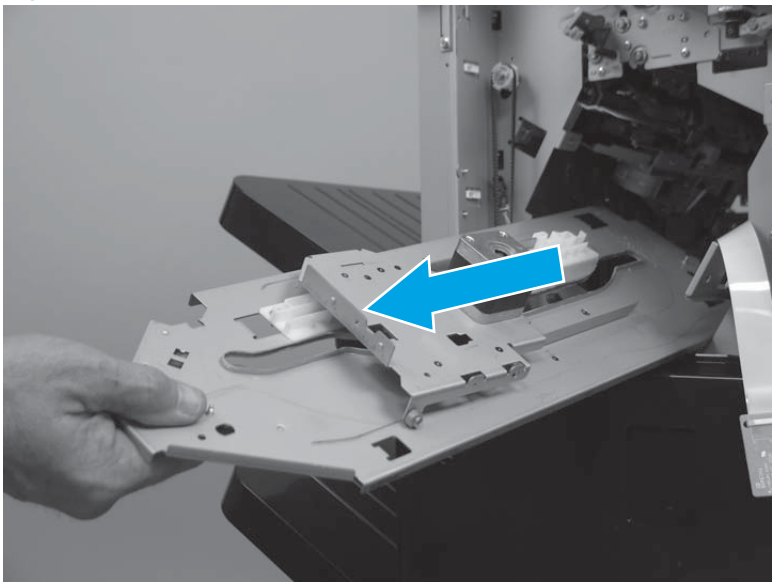
Figure 1-835 Remove the staple assembly (6 of 7)



7. Carefully slide the stapler assembly out of the accessory.

TIP: You might have to move the staple assembly up and down, and rotate it right and left, as you slide it out of the accessory to completely remove it.

Figure 1-836 Remove the staple assembly (7 of 7)



Paper detect holder assembly

Before proceeding, remove the following assemblies:

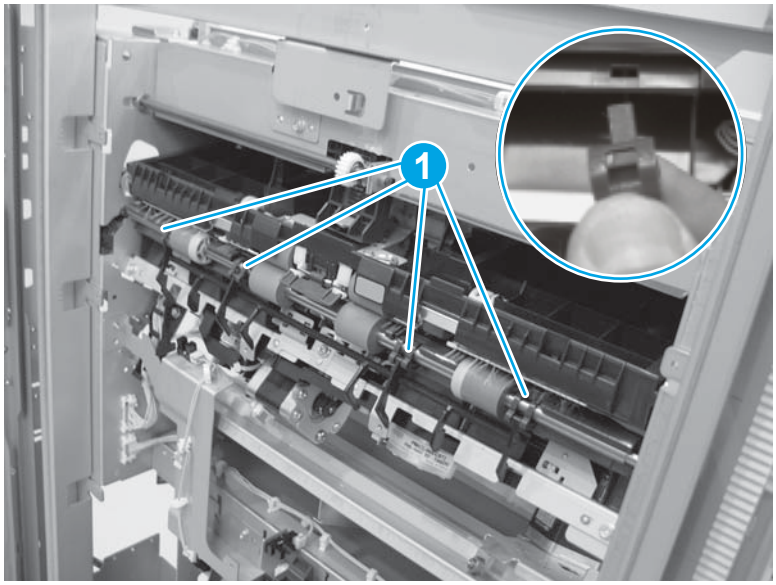
- Open/closed stepped cover assembly. See Open/closed stepped cover assembly on page 471.
- Upper stepped cover assembly. See Upper stepped cover assembly on page 472.
- Lower stepped cover assembly. See Lower stepped cover assembly on page 474.
- Bin cable guide cover. See Bin cable guide cover on page 492.
- Rear cover assembly. See Rear cover assembly on page 496.
- Stack wall upper cover. See Stack wall upper assembly and upper wall guide assembly on page 518.
- Stack upper bin and lower bin assembly. See Stack upper bin and lower bin assemblies on page 540.
- Height wall assembly. See Height wall assembly on page 546.

Remove the paper detect holder assembly

To remove the paper detect assembly, start at one end, grip each snap fastener at the base, and gently pull them to remove one at a time.

⚠ **CAUTION:** The assembly is very fragile. Grip the assembly by the snap fasteners (callout 1) and not by the arm.

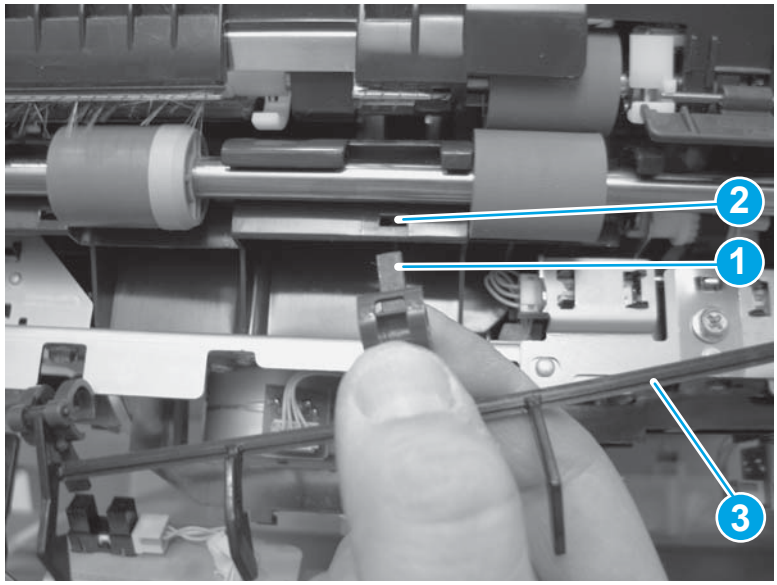
Figure 1-837 Remove the paper detect holder assembly



Reinstall the paper detect holder assembly

When reinstalling, the small tab (callout 1) on each snap fastener must be inserted into a hole (callout 2). The paper detect assembly (callout 3) will not work properly if the tabs are not installed correctly.

Figure 1-838 Reinstall the paper detect holder assembly



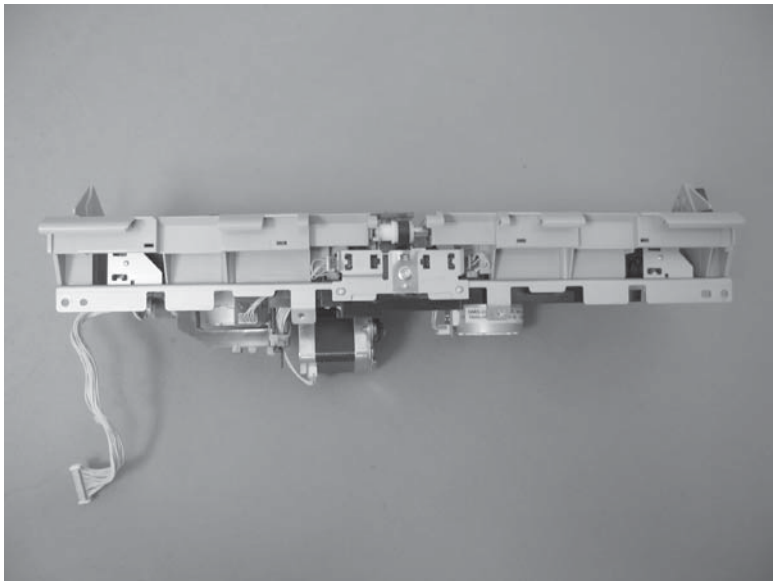
Operation tray assembly

Before proceeding, remove the following assemblies:

- Open/closed stepped cover assembly. See Open/closed stepped cover assembly on page 471.
- Upper stepped cover assembly. See Upper stepped cover assembly on page 472.
- Lower stepped cover assembly. See Lower stepped cover assembly on page 474.
- Front door. See Front door on page 479.
- Inner upper cover assembly. See Inner upper cover assembly on page 480.
- Bin cable guide cover. See Bin cable guide cover on page 492.
- Rear cover assembly. See Rear cover assembly on page 496.
- Main controller PCA assembly. See Main controller PCA assembly on page 498.
- Stack wall upper cover assembly. See Stack wall upper assembly and upper wall guide assembly on page 518.
- Stack upper bin and lower bin assembly. See Stack upper bin and lower bin assemblies on page 540.
- Height wall assembly. See Height wall assembly on page 546.
- Paper detect holder assembly. See Paper detect holder assembly on page 562.

The following figure shows the operation tray assembly. Use this figure to identify the assembly in the accessory.

Figure 1-839 Identify the operation tray assembly

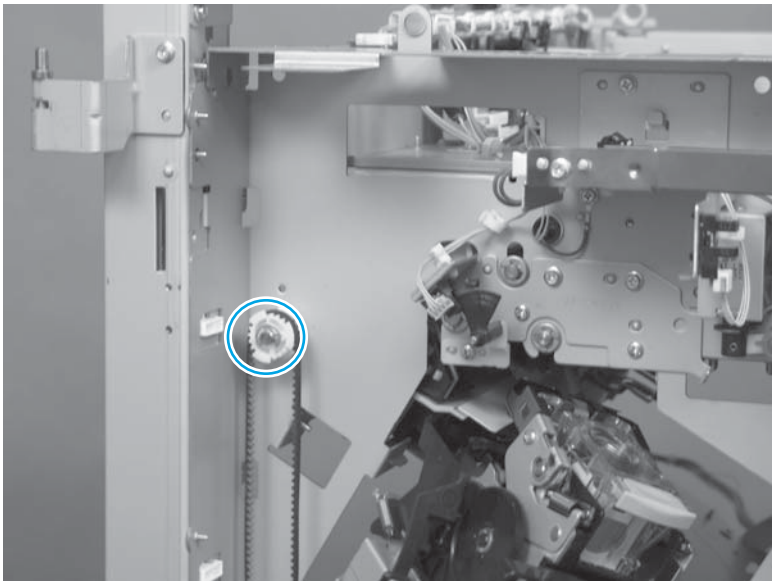


Remove the operation tray assembly

NOTE: Some of the figures in this procedure show white plastic drive gears. The gears in the accessory are black plastic. However, this removal procedure is correct for this accessory.

1. Remove one e-ring.

Figure 1-840 Remove the operation tray assembly (1 of 11)



2. Carefully slide the gear and belt (callout 1) off of the shaft, and then remove the locking pin (callout 2). The locking pin behind the gear is not captive. Do not lose the pin when removing the gear and belt.

TIP: Before removing the gear, rotate the gear until the lines on the gear face are vertical. This horizontally aligns the pin, and minimizes the possibility of it falling into the accessory when the gear is removed.

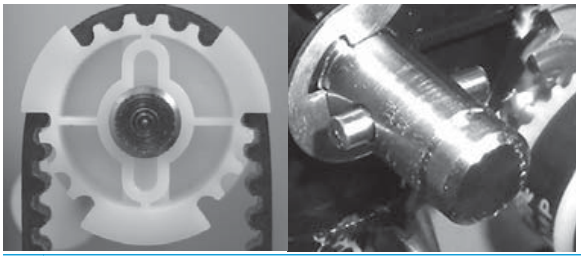
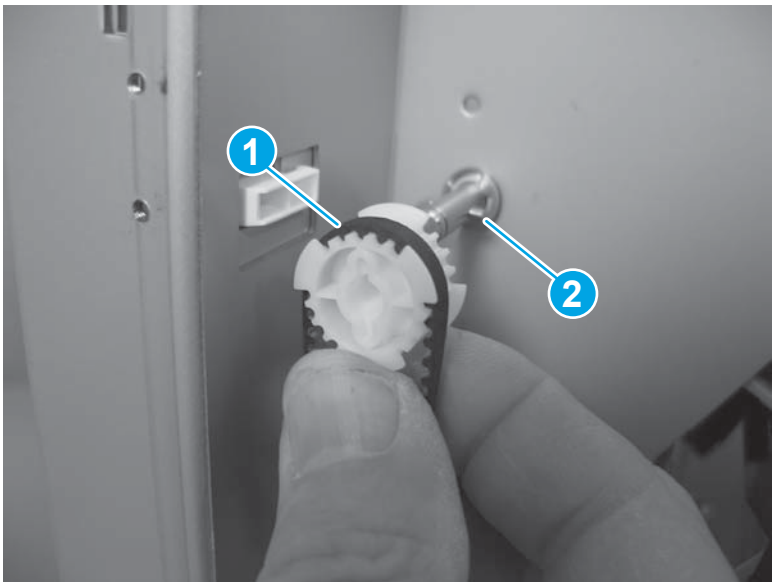


Figure 1-841 Remove the operation tray assembly (2 of 11)



3. Remove one e-ring.

Figure 1-842 Remove the operation tray assembly (3 of 11)

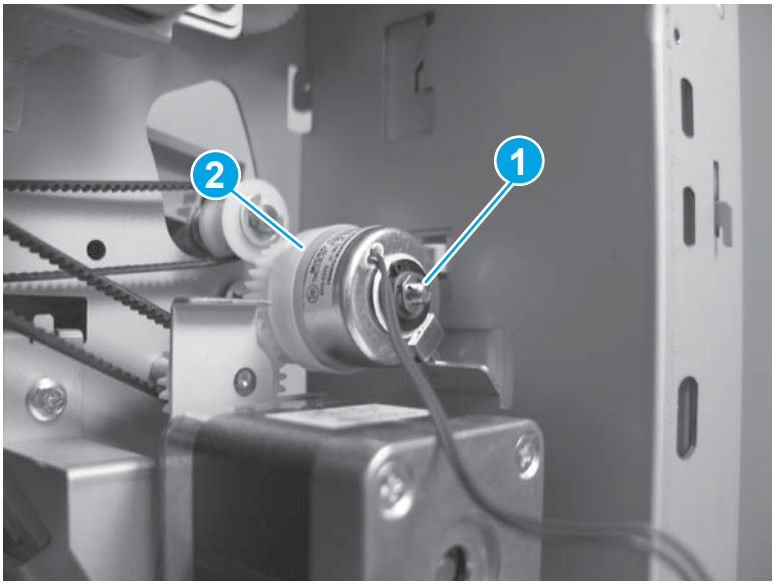
4. Remove one small-flat washer and one bearing.

TIP: It is easier to remove the washer and bearing by using a small flat-blade screwdriver.

Figure 1-843 Remove the operation tray assembly (4 of 11)

5. At the rear of the accessory, remove one e-ring (callout 1), and then slide the clutch (callout 2) off of the shaft to remove it.

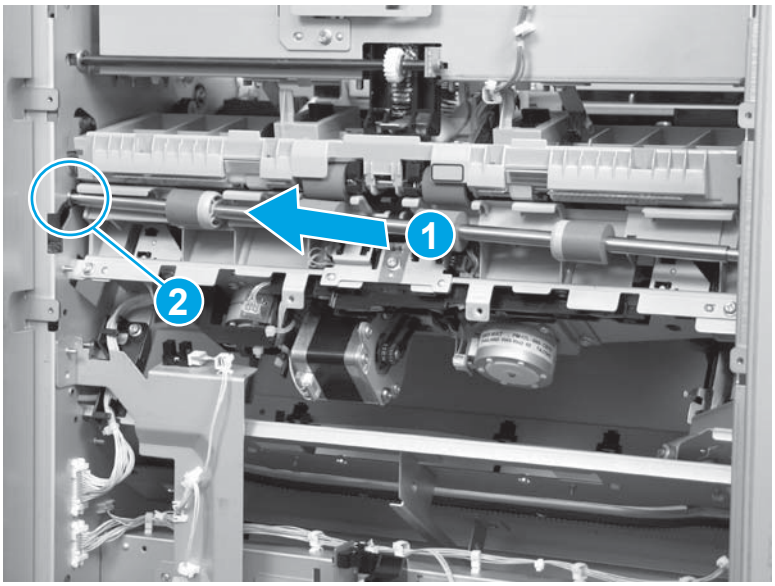
Figure 1-844 Remove the operation tray assembly (5 of 11)



6. Slide the stack-delivery roller to the left (callout 1) to release the bearing (callout 2).

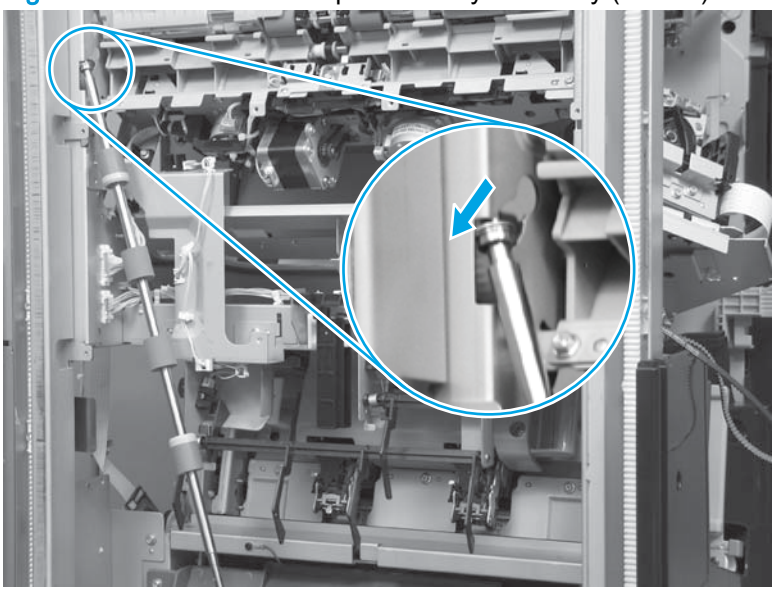
CAUTION: Avoid touching the rollers on the assembly. Skin oils can cause paper handling problems.

Figure 1-845 Remove the operation tray assembly (6 of 11)



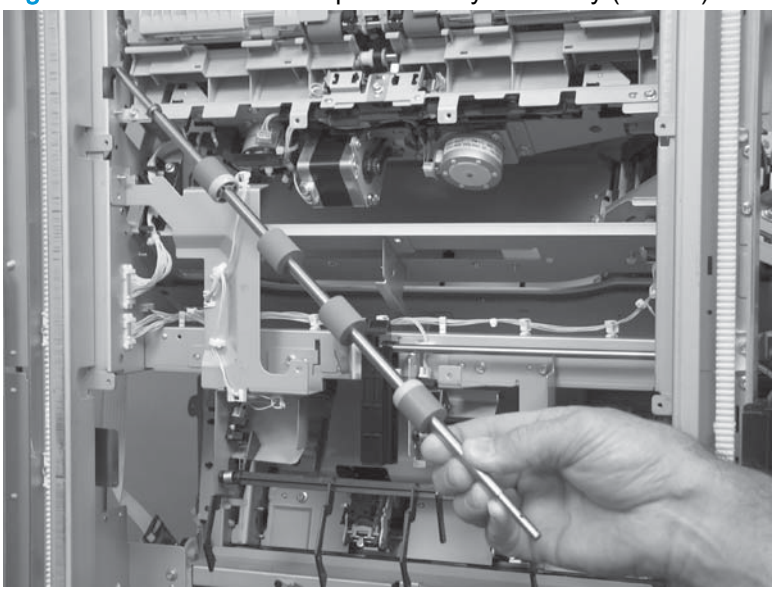
7. Carefully slide the bearing down the slot in the chassis.

Figure 1-846 Remove the operation tray assembly (7 of 11)



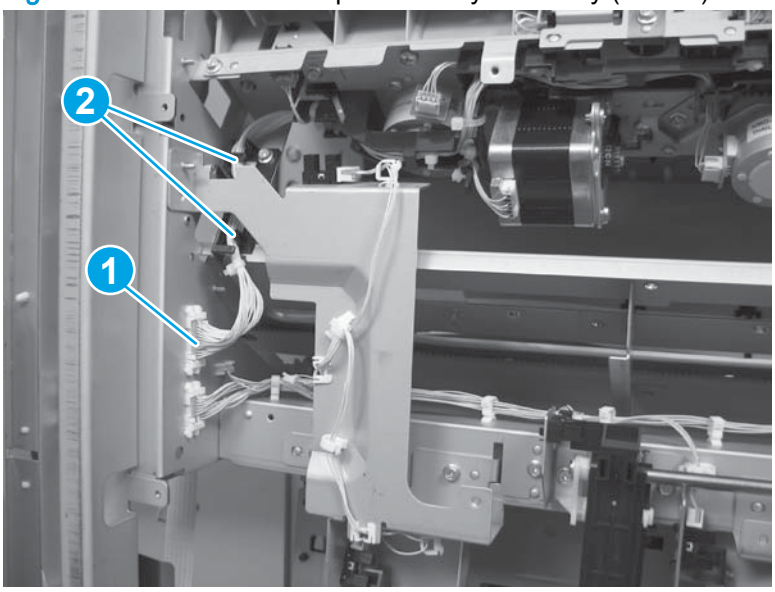
8. Remove the stack-delivery roller.

Figure 1-847 Remove the operation tray assembly (8 of 11)



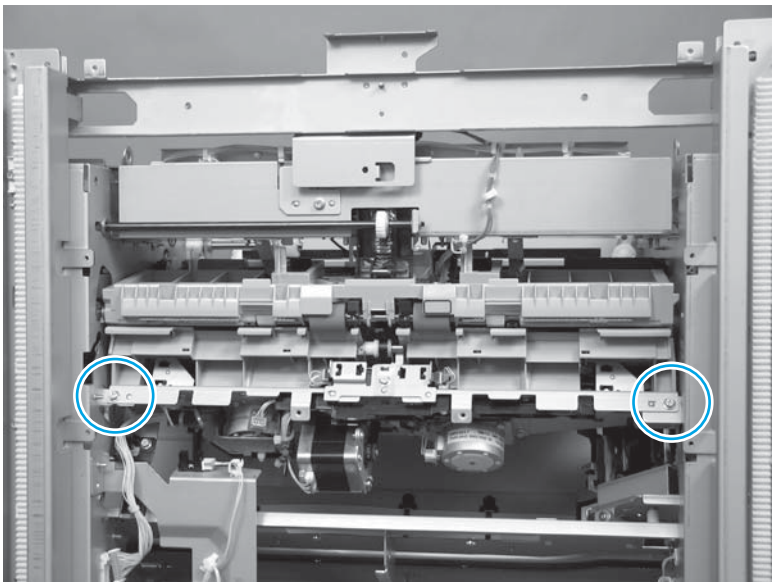
9. Disconnect one connector (callout 1), and then release the wire harness from the guide (callout 2).

Figure 1-848 Remove the operation tray assembly (9 of 11)



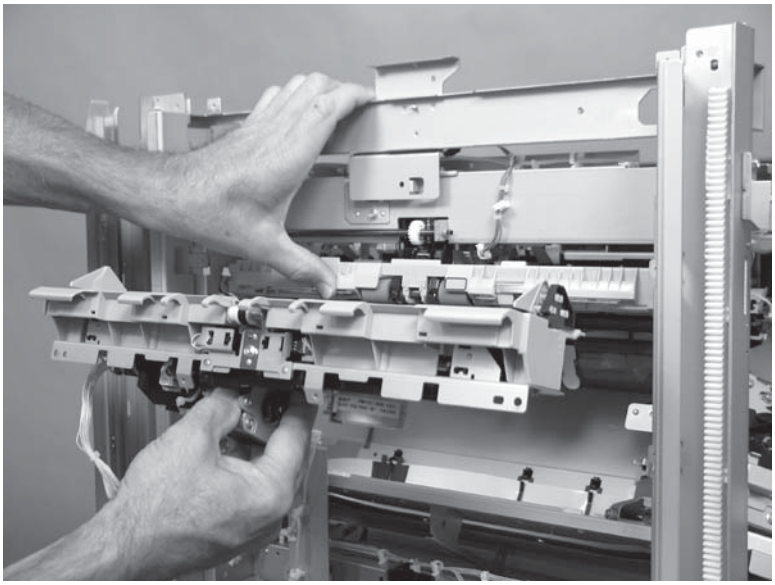
10. Remove two screws.

Figure 1-849 Remove the operation tray assembly (10 of 11)



11. Raise the swing guide assembly, and then remove the operation tray assembly.

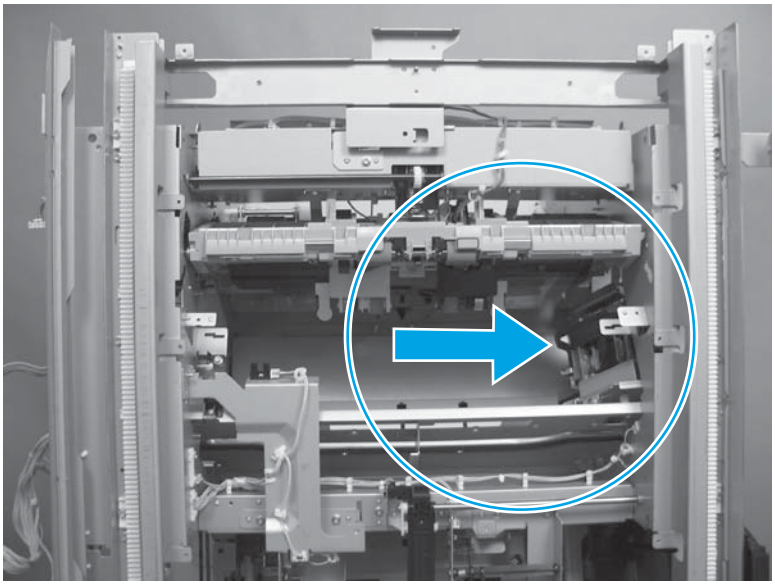
Figure 1-850 Remove the operation tray assembly (11 of 11)



Reinstall the operation tray assembly

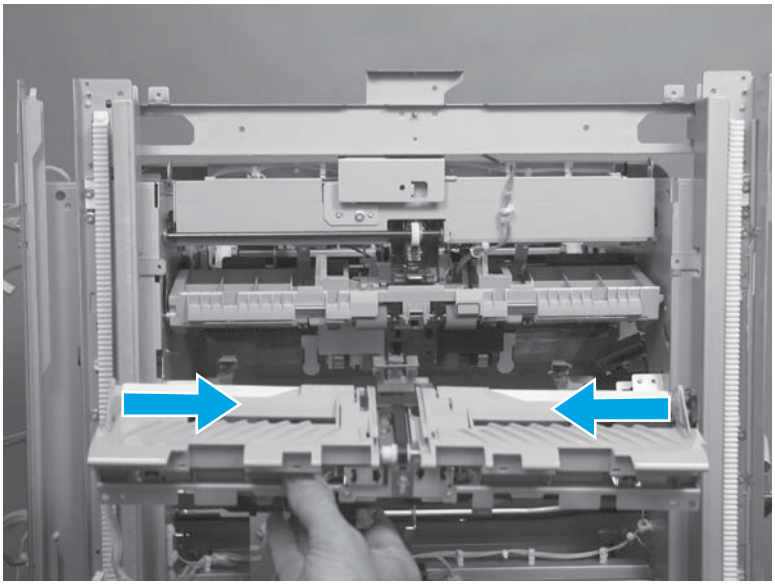
1. Before installing the operation tray assembly, make sure that the staple assembly is out of the way.

Figure 1-851 Reinstall the operation tray assembly (1 of 5)



2. On the assembly, slide the joggers to the inside position.

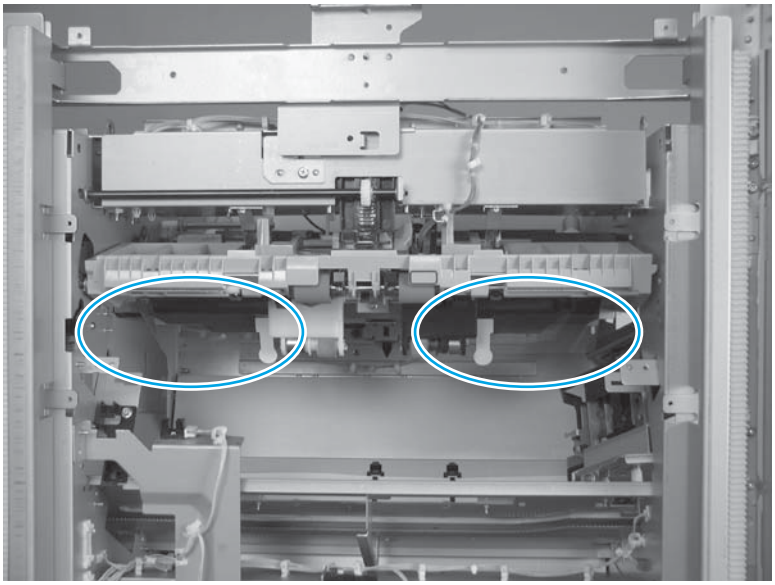
Figure 1-852 Reinstall the operation tray assembly (2 of 5)



3. When the assembly is installed, do not damage the mylar sheets inside the accessory.

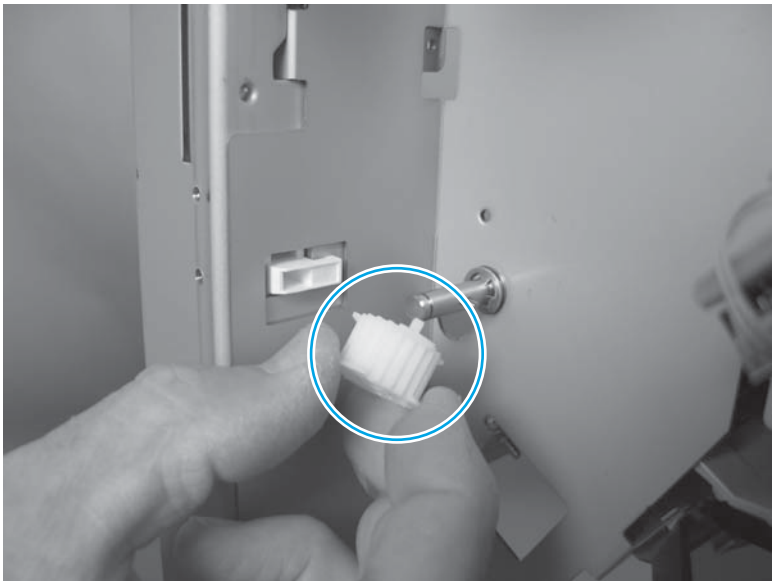
Locate the plastic pin on the back side of the gear. Install the gear with this pin facing the chassis. Then rotate the shaft so the hole is horizontal. Insert the metal locking pin, and then place the belt on the gear and slide the gear on the shaft so that it aligns with the locking pin in the slots on the gear.

Figure 1-853 Reinstall the operation tray assembly (3 of 5)



4. Before installing the drive gear, make sure that it will be positioned on the shaft with the white-plastic pin on the back of the gear facing the chassis.

Figure 1-854 Reinstall the operation tray assembly (4 of 5)

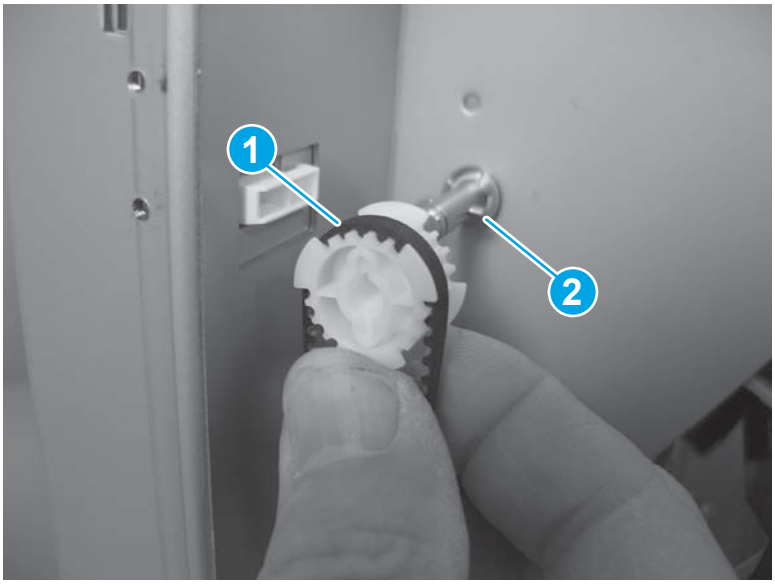


5. Rotate the shaft so that the locking pin hole is horizontal, install the locking pin (callout 1), place the belt on the gear, and then slide the gear onto the shaft (callout 2).

TIP: Rotate the gear until the lines on the gear face are vertical so that the slot on the back side of the gear for the locking pin is horizontally aligned.

When the gear is correctly installed on the shaft, the shaft should rotate when the gear is rotated —the gear should not freely rotate on the shaft.

Figure 1-855 Reinstall the operation tray assembly (5 of 5)



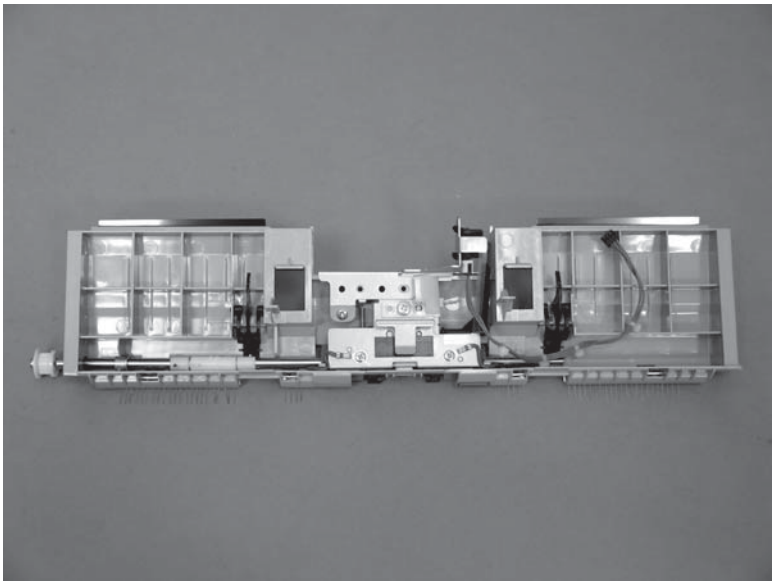
Swing guide assembly

Before proceeding, remove the following assemblies:

- Open/closed stepped cover assembly. See Open/closed stepped cover assembly on page 471.
- Upper stepped cover assembly. See Upper stepped cover assembly on page 472.
- Lower stepped cover assembly. See Lower stepped cover assembly on page 474.
- Top door assembly. See Top door assembly on page 478.
- Front door. See Front door on page 479.
- Inner upper cover assembly. See Inner upper cover assembly on page 480.
- Bin cable guide cover. See Bin cable guide cover on page 492.
- Rear cover assembly. See Rear cover assembly on page 496.
- Main controller PCA assembly. See Main controller PCA assembly on page 498.
- Stack wall upper cover assembly. See Stack wall upper assembly and upper wall guide assembly on page 518.
- Stack upper bin and lower bin assembly. See Stack upper bin and lower bin assemblies on page 540.
- Height wall assembly. See Height wall assembly on page 546.
- Paper detect holder assembly. See Paper detect holder assembly on page 562.
- Operation tray assembly. See Operation tray assembly on page 564.

The following figure shows the swing guide assembly. Use this figure to identify the assembly in the accessory.

Figure 1-856 Identify the operation tray assembly

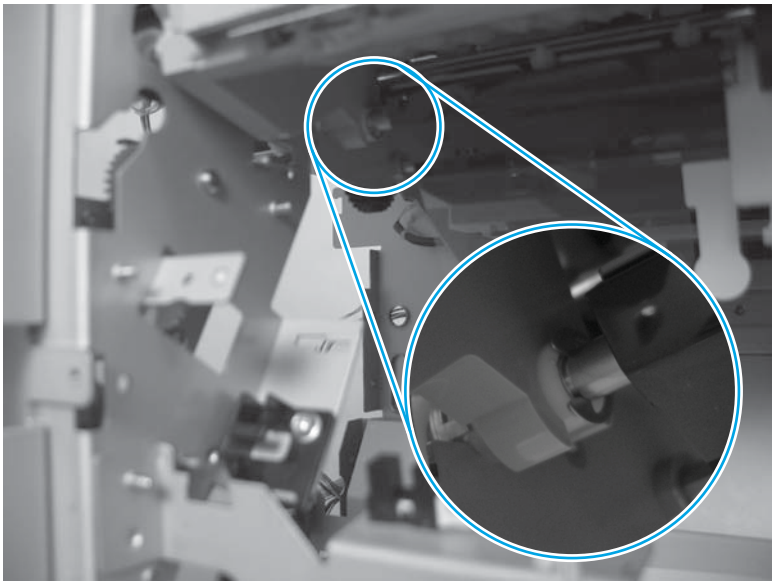


Remove the swing guide assembly

1. Look inside the accessory where the operation tray assembly was removed. Locate and remove one e-ring.

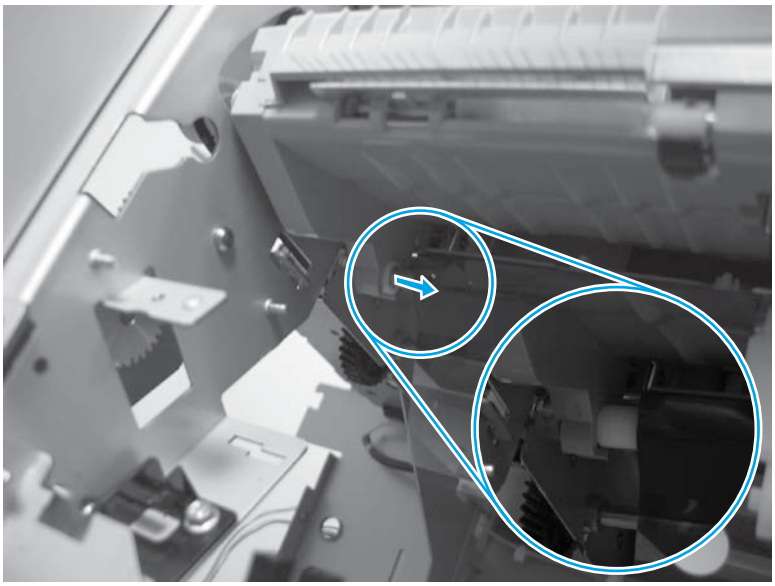
NOTE: This e-ring is located on the inside rear wall of the chassis.

Figure 1-857 Remove the swing guide assembly (1 of 12)



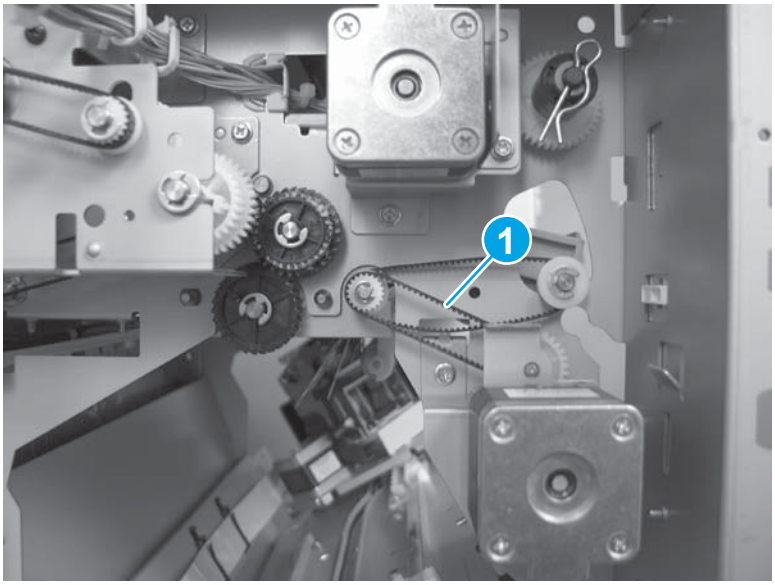
2. Slide the white-plastic bushing out of the holder.

Figure 1-858 Remove the swing guide assembly (2 of 12)



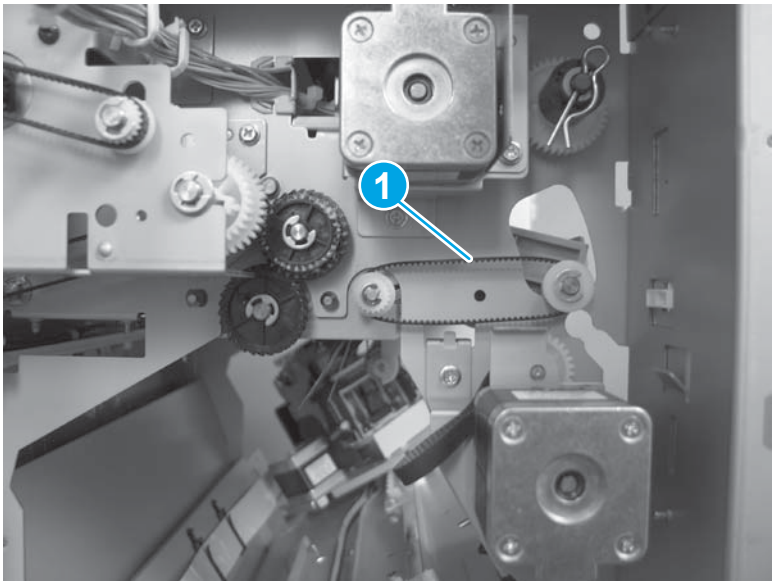
3. Release one belt (callout 1), and then move it out of the way.

Figure 1-859 Remove the swing guide assembly (3 of 12)



4. Remove one belt (callout 1).

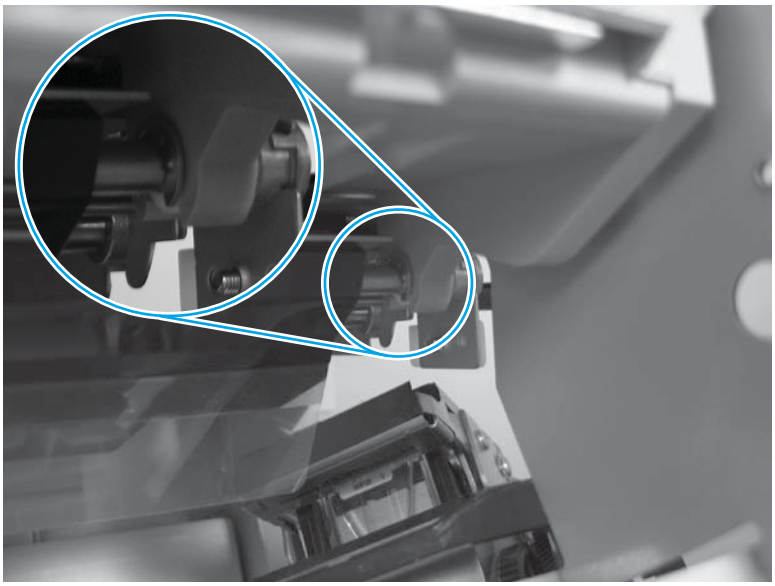
Figure 1-860 Remove the swing guide assembly (4 of 12)



5. Look inside the accessory where the operation tray assembly was removed. Locate and remove one e-ring. Slide the bushing out of the holder.

NOTE: This e-ring and bushing are located on the inside front wall of the chassis.

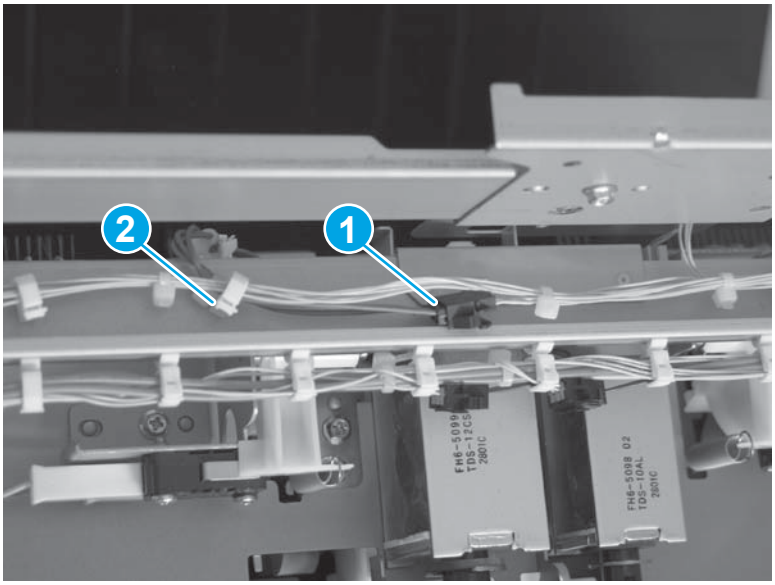
Figure 1-861 Remove the swing guide assembly (5 of 12)



6. At the top of the accessory, disconnect one connector (callout 1), and then release the wire harness from one retainer (callout 2).

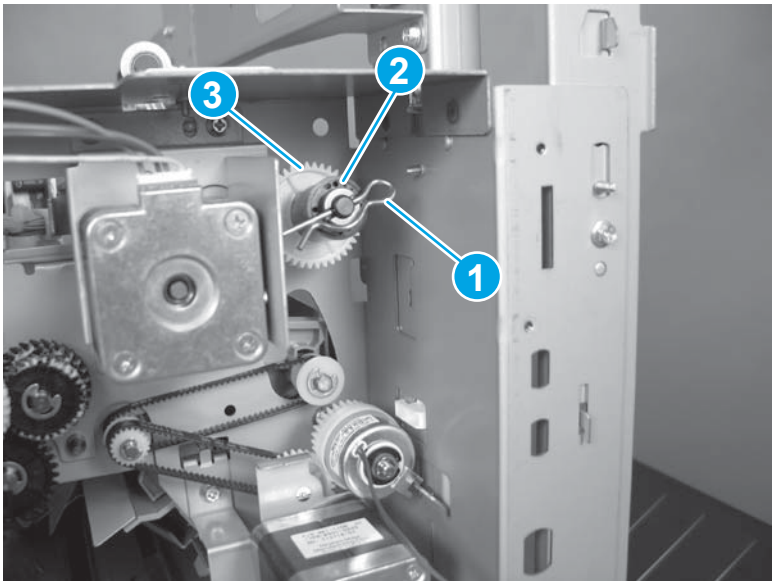
TIP: Follow the wire harness to the swing guide assembly, and release two more retainers (not shown) on the front and bottom of the cross member assembly.

Figure 1-862 Remove the swing guide assembly (6 of 12)



7. At the rear of the accessory, remove one retainer pin (callout 1), and then slide the clutch (callout 2) and gear (callout 3) off the shaft to remove them.

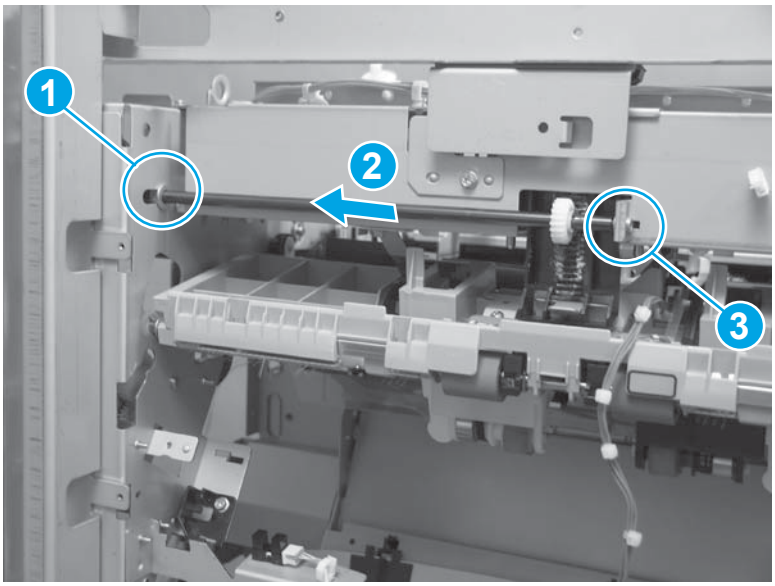
Figure 1-863 Remove the swing guide assembly (7 of 12)



8. At the output side of the accessory, remove one e-ring (callout 1), slide the gear shaft to the left (callout 2), and then remove one bushing (callout 3).

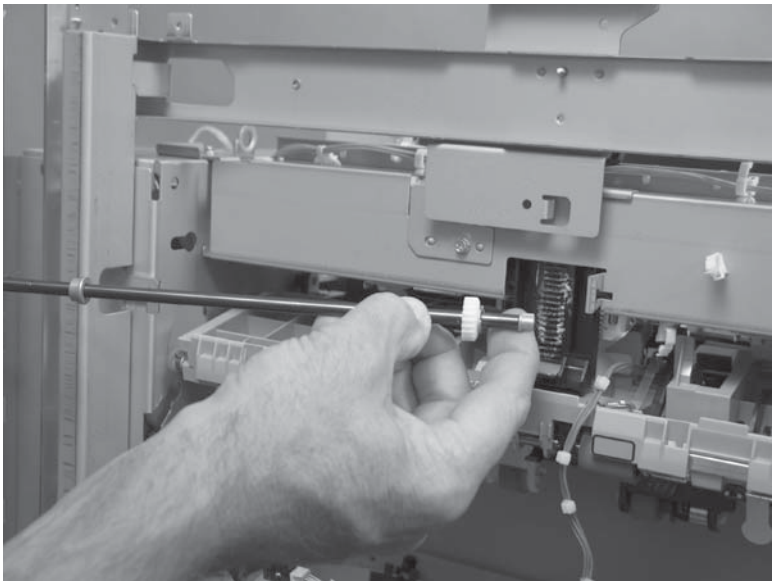
⚠ CAUTION: Do not lose the bushing (callout 3).

Figure 1-864 Remove the swing guide assembly (8 of 12)



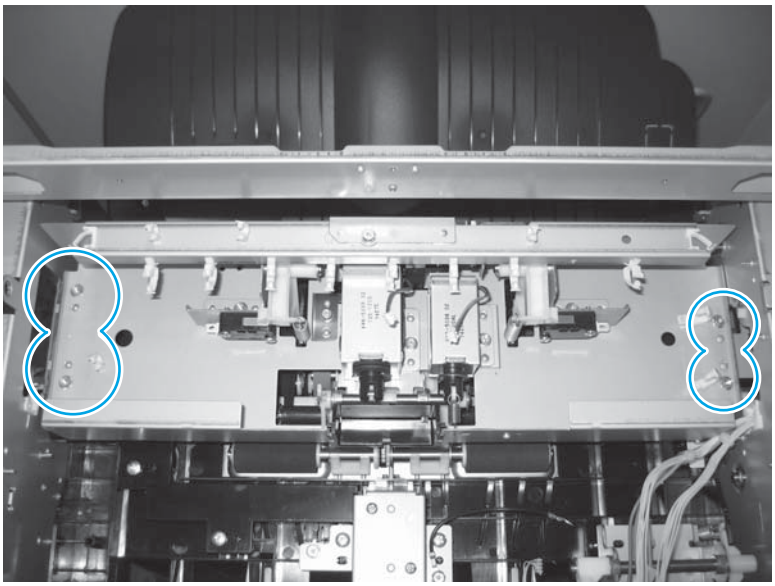
9. Remove the gear-shaft assembly.

Figure 1-865 Remove the swing guide assembly (9 of 12)



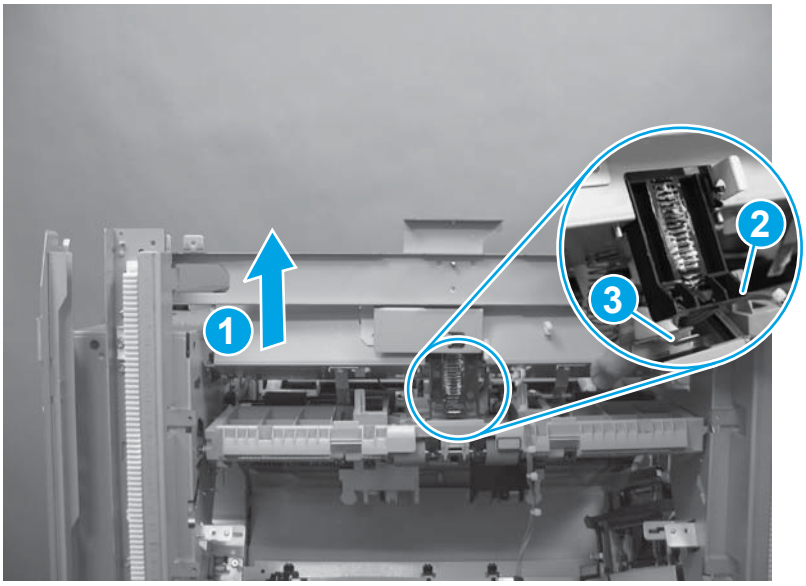
10. At the top of the accessory, loosen, but do not remove, four screws on the upper cross member assembly.

Figure 1-866 Remove the swing guide assembly (10 of 12)



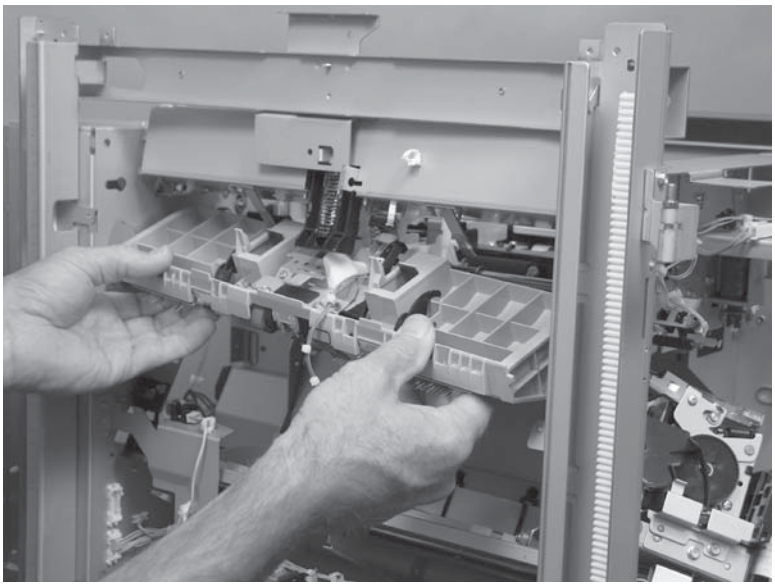
11. Carefully lift up on the edge of the upper cross member assembly (callout 1), and then separate the black-plastic gear rack (callout 2) from the sheet-metal tab (callout 3).

Figure 1-867 Remove the swing guide assembly (11 of 12)



12. Carefully remove the swing guide assembly.

Figure 1-868 Remove the swing guide assembly (12 of 12)



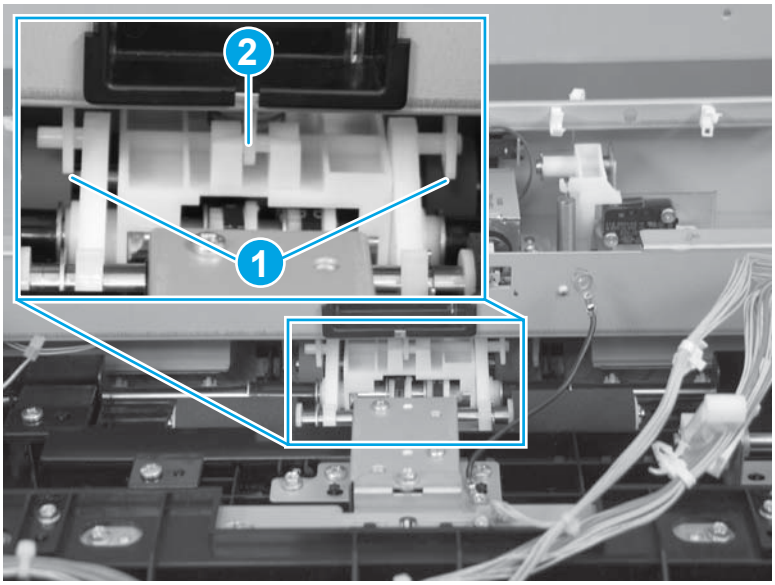
Reinstall the swing guide assembly

1. After the swing guide is reinstalled, verify that the two pivot arms on the upper cross member are positioned in front of the pins (callout 1), and that the locking bar is seated in the cradle (callout 2).

NOTE: Do not forget to retighten the four upper cross member mounting screws.

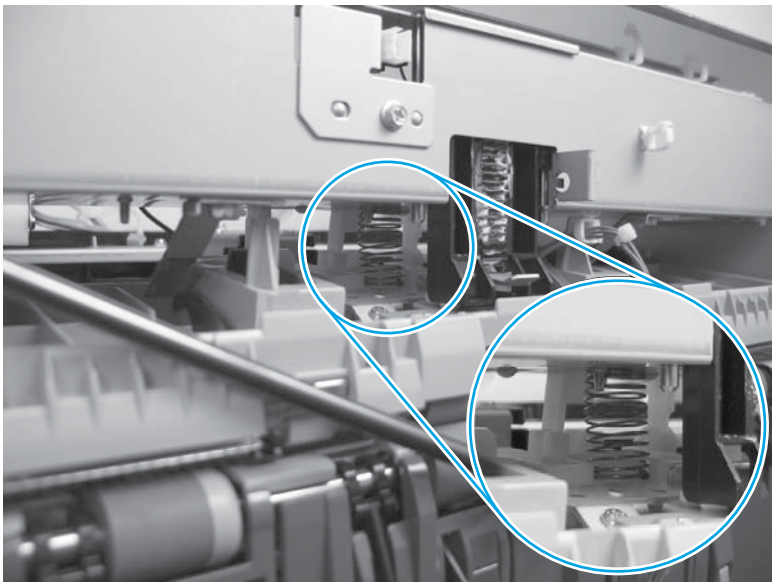
Reinstallation tip If the swing guide assembly is removed and replaced and the message **13.60.A1 Jam in Top Left Door** appears on the control panel display (or in the event log) after the product power is turned on, the two pivot arms or the locking bar might not have been properly installed.

Figure 1-869 Reinstall the swing guide assembly (1 of 7)



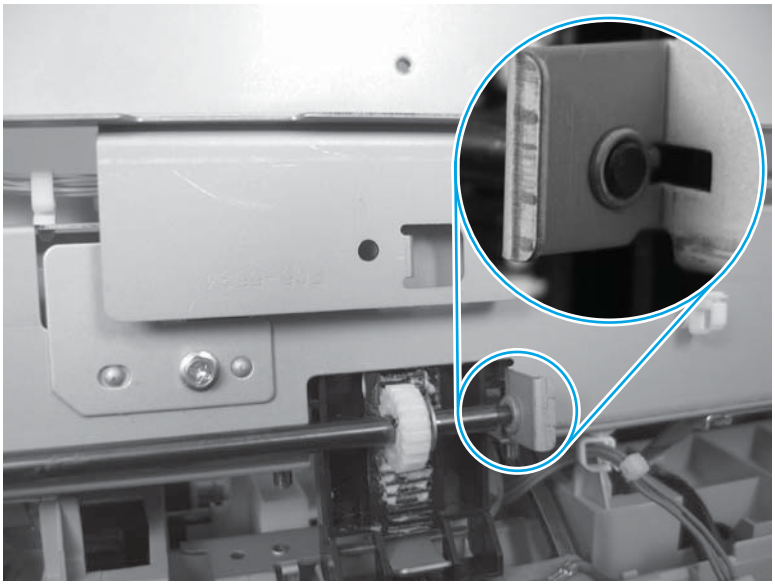
2. Verify that the spring underneath the upper cross member assembly is correctly positioned.

Figure 1-870 Reinstall the swing guide assembly (2 of 7)



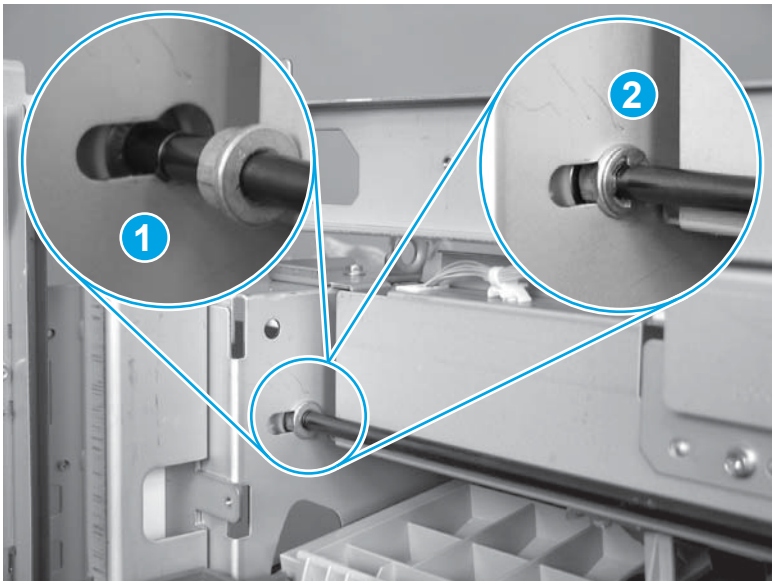
3. To reinstall the gear shaft right-side bushing, align the keyed portion of the bushing with the slot in the chassis mounting tab.

Figure 1-871 Reinstall the swing guide assembly (3 of 7)



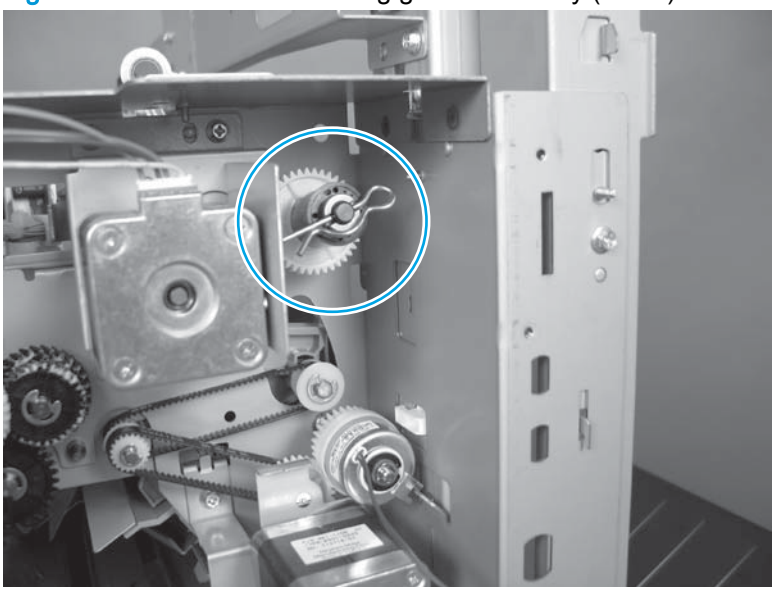
4. To reinstall the gear shaft left-side bushing, align the keyed portion of the bushing with the slot in the chassis (callout 1), and then install the e-ring (callout 2).

Figure 1-872 Reinstall the swing guide assembly (4 of 7)



5. Make sure that the clutch is correctly position on the gear—two tabs on the clutch engage two slots on the gear face—and that the pin is positioned in the slot on the end of the shaft.

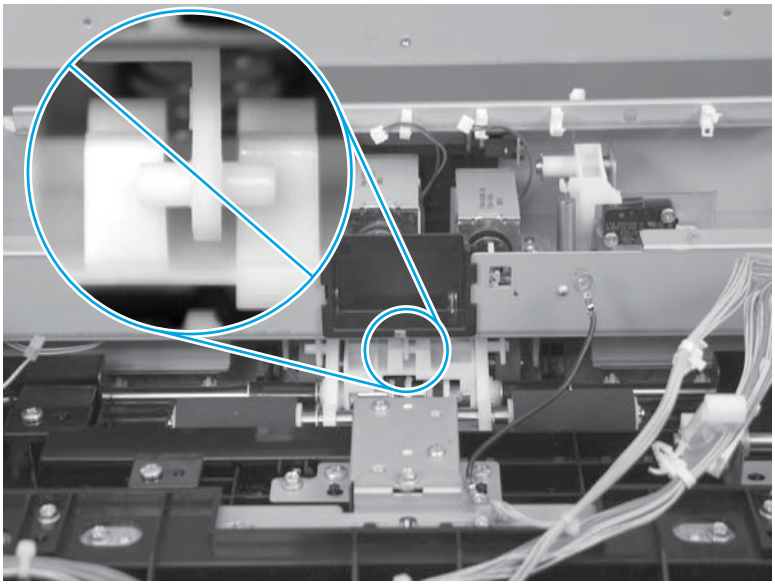
Figure 1-873 Reinstall the swing guide assembly (5 of 7)



6. Recheck the locking bar underneath the upper cross member assembly. Verify that it is correctly positioned in the cradle. If it is not correctly positioned, slightly lift up the upper cross member assembly and reposition the locking bar in the cradle.

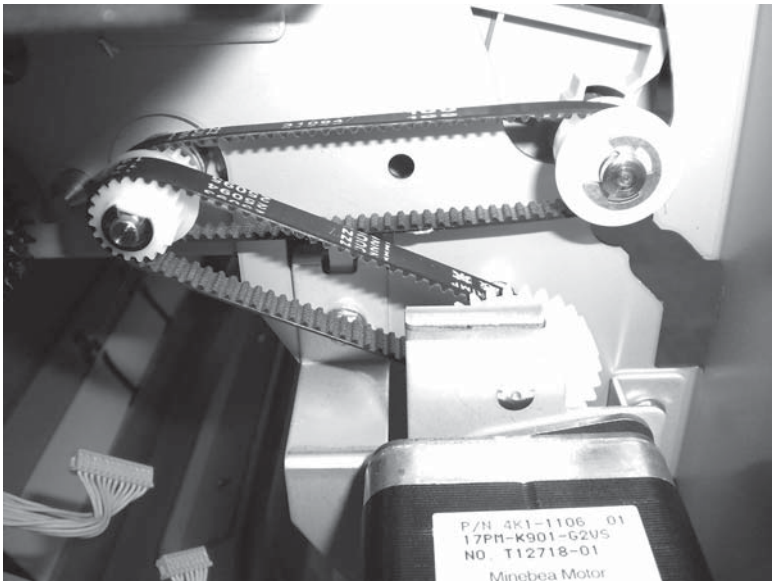
TIP: If necessary, slightly loosen, but do not remove, the assembly mounting screws to allow the assembly to be lifted up. Make sure that you retighten the mounting screws.

Figure 1-874 Reinstall the swing guide assembly (6 of 7)



7. Make sure that the drive belts are correctly installed.

Figure 1-875 Reinstall the swing guide assembly (7 of 7)



Return roller assembly

Before proceeding, remove the following assemblies:

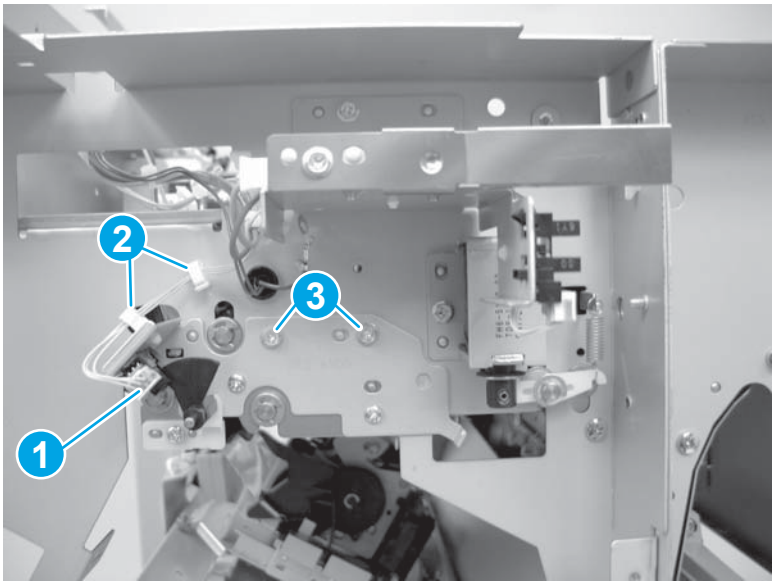
- Latch lower covers (front and rear). See Latch lower covers (front and rear) on page 468.
- Open/closed stepped cover assembly. See Open/closed stepped cover assembly on page 471.
- Upper stepped cover assembly. See Upper stepped cover assembly on page 472.
- Lower stepped cover assembly. See Lower stepped cover assembly on page 474.
- Top door assembly. See Top door assembly on page 478.
- Front door. See Front door on page 479.
- Inner upper cover assembly. See Inner upper cover assembly on page 480.
- Bin cable guide cover. See Bin cable guide cover on page 492.
- Rear cover assembly. See Rear cover assembly on page 496.
- Main controller PCA assembly. See Main controller PCA assembly on page 498.
- Stack wall upper cover assembly. See Stack wall upper assembly and upper wall guide assembly on page 518.
- Stack upper bin and lower bin assembly. See Stack upper bin and lower bin assemblies on page 540.
- Height wall assembly. See Height wall assembly on page 546.
- Paper detect holder assembly. See Paper detect holder assembly on page 562.
- Operation tray assembly. See Operation tray assembly on page 564.
- Swing guide assembly. See Swing guide assembly on page 575.

Remove the return roller assembly

1. Disconnect one connector (callout 1), release two wire retainers (callout 2), and then remove two screws (callout 3).

TIP: To make removing the return roller assembly easier, push the stapler assembly all the way inside the accessory.

Figure 1-876 Remove the return roller assembly (1 of 2)

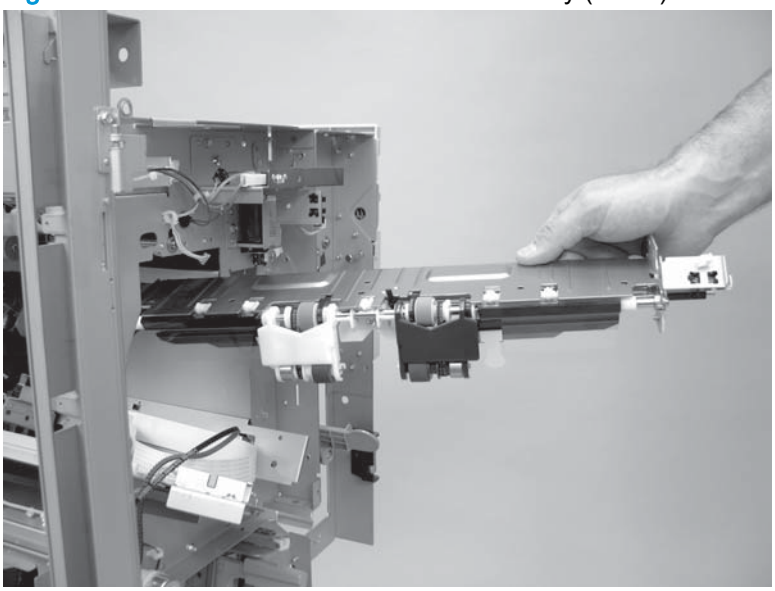


2. Remove the return roller assembly from the front side of the chassis.

NOTE: When you remove the assembly, use both hands to support the return roller.

TIP: Do not damage the mylar sheet during removal or replacement.

Figure 1-877 Remove the return roller assembly (2 of 2)



Clutch assembly (rear side)

Before proceeding, remove the following assemblies:

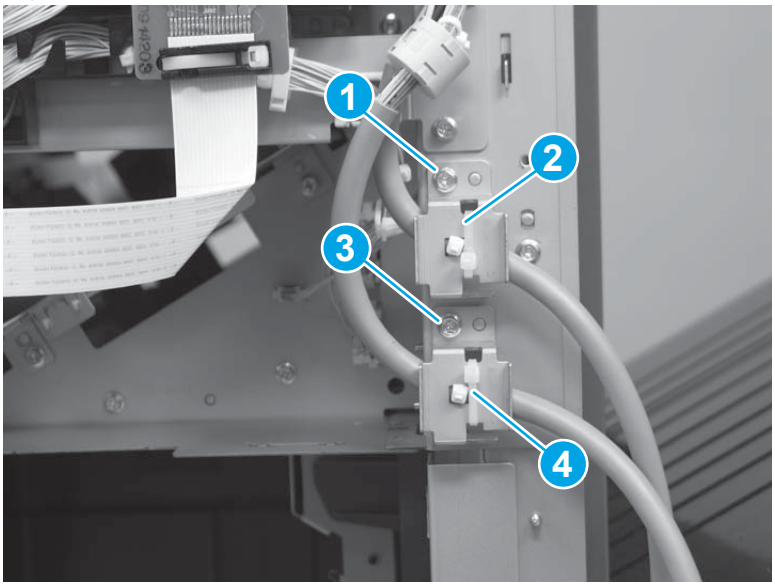
- Bin cable guide cover. See Bin cable guide cover on page 492.
- Rear cover assembly. See Rear cover assembly on page 496.

Remove the clutch assembly (rear side)

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

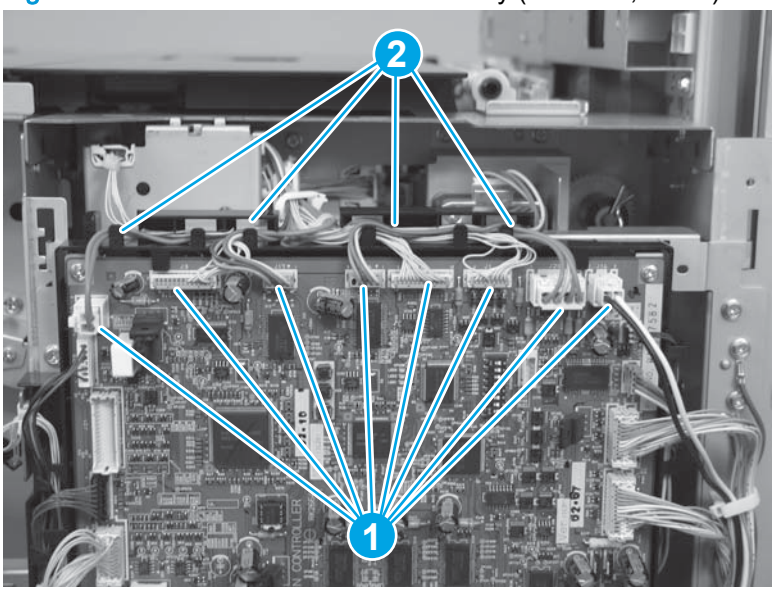
   Remove one screw (callout 3), and then remove the lower sheet-metal cable retainer (callout 4).

   Figure 1-878 Remove the clutch assembly (rear side; 1 of 6)

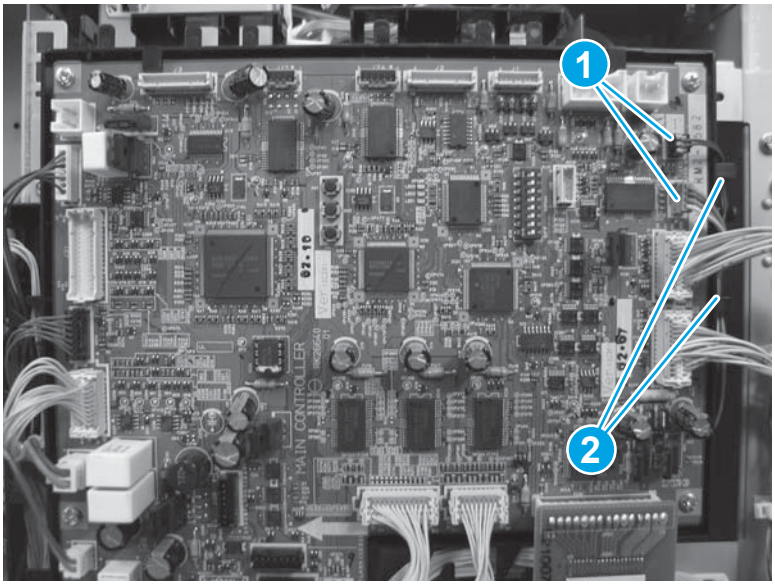
2. Disconnect eight connectors (callout 1), and then release the four wire harnesses from the retainer and guide (callout 2).

   Figure 1-879 Remove the clutch assembly (rear side; 2 of 6)

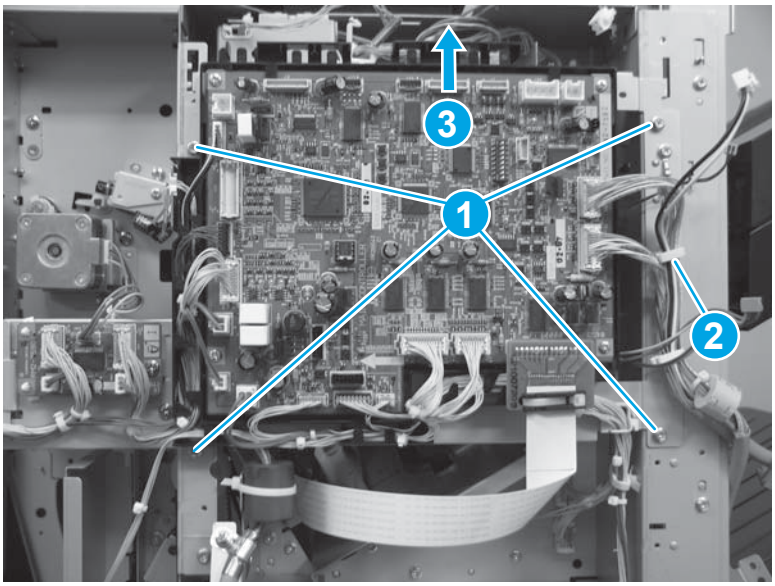
3. Disconnect two connectors (callout 1), and then release the two wire harnesses from the retainers (callout 2).

Figure 1-880 Remove the clutch assembly (rear side; 3 of 6)



4. Remove four screws (callout 1), release the wire harness from one retainer (callout 2), and then slightly lift up on the controller PCA sheet-metal bracket (callout 3) to release it.

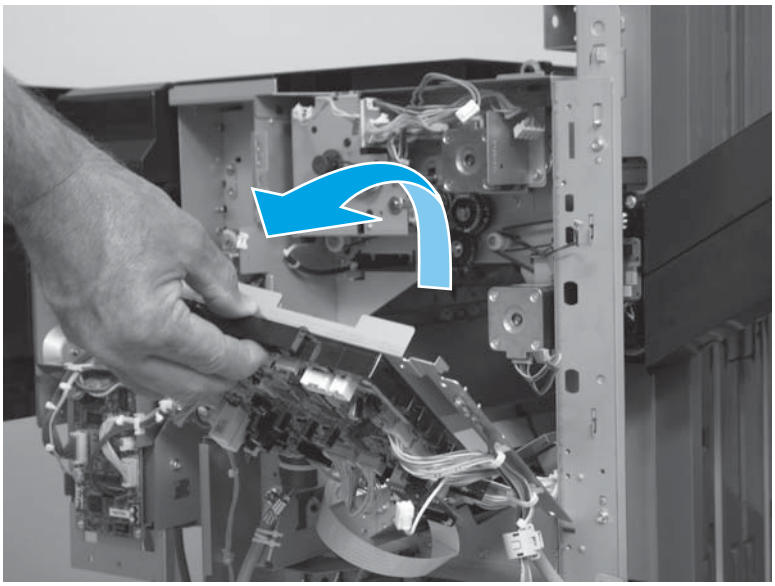
Figure 1-881 Remove the clutch assembly (rear side; 4 of 6)



5. Carefully rotate the top of the controller PCA away from the chassis and then move it out of the way.

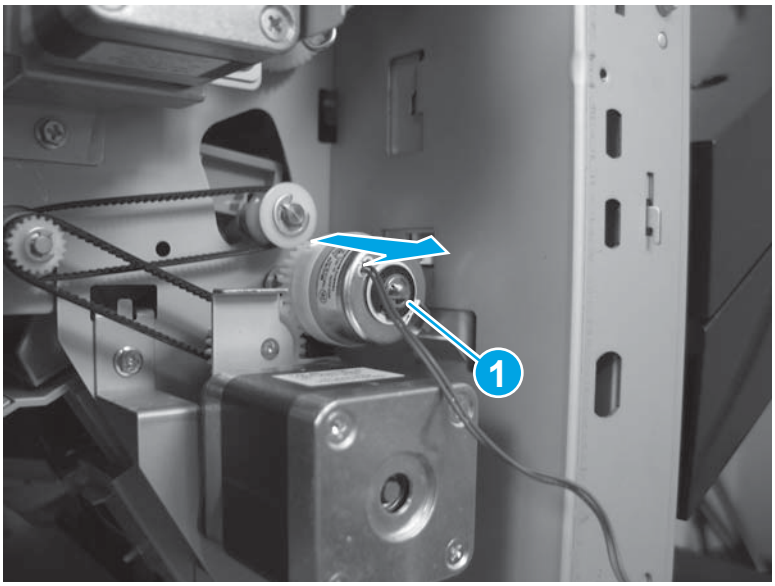
NOTE: If needed, release additional wire harnesses from retainers to make it easier to rotate the PCA out of the way.

Figure 1-882 Remove the clutch assembly (rear side; 5 of 6)



6. Remove one e-ring (callout 1), and then slide the clutch off the shaft to remove it.

Figure 1-883 Remove the clutch assembly (rear side; 6 of 6)



Stack ejection motor assembly

Before proceeding, remove the following assemblies:

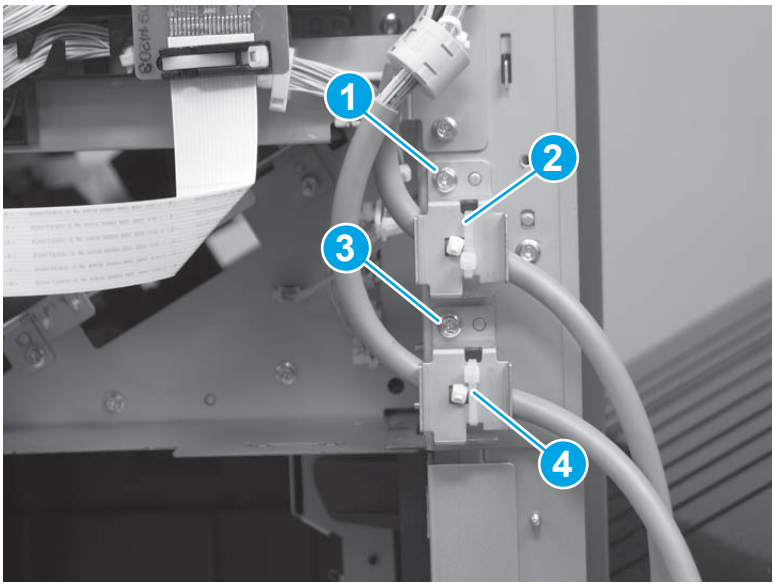
- Bin cable guide cover. See Bin cable guide cover on page 492.
- Rear cover assembly. See Rear cover assembly on page 496.

Remove the stack ejection motor assembly

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

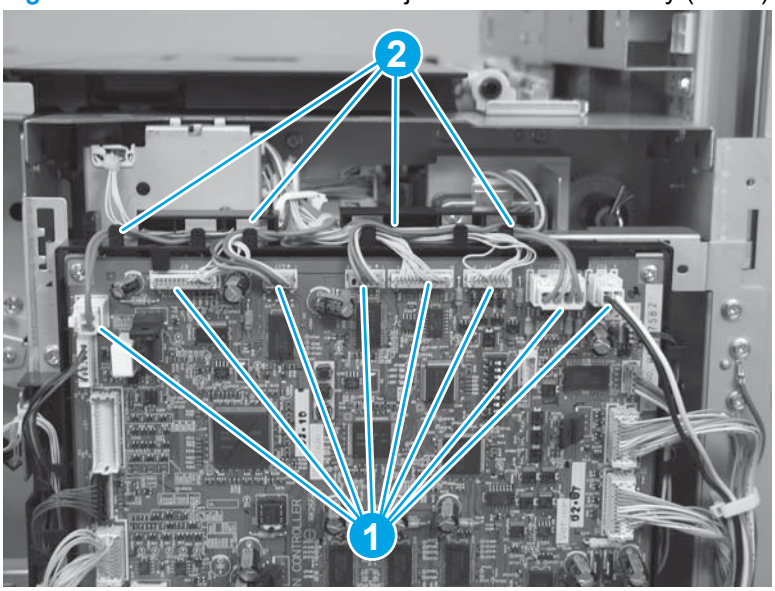
   Remove one screw (callout 3), and then remove the lower sheet-metal cable retainer (callout 4).

   Figure 1-884 Remove the stack ejection motor assembly (1 of 7)

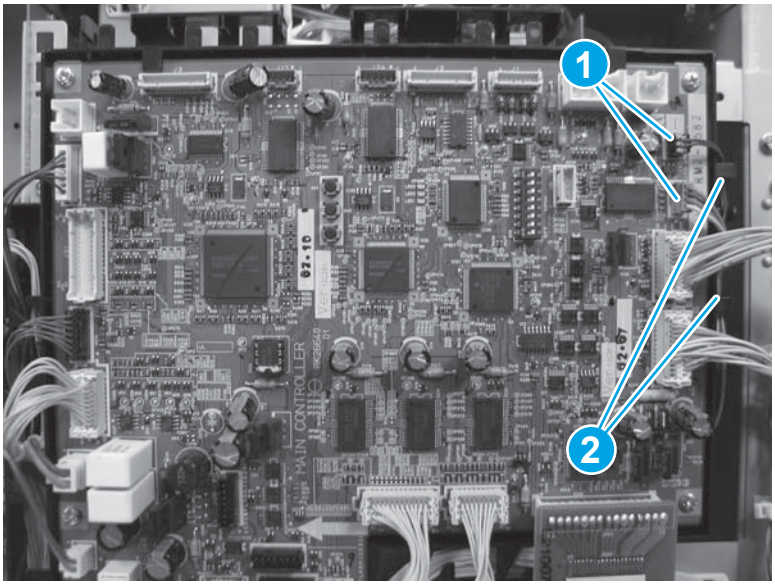
2. Disconnect eight connectors (callout 1), and then release the four wire harnesses from the retainer and guide (callout 2).

   Figure 1-885 Remove the stack ejection motor assembly (2 of 7)

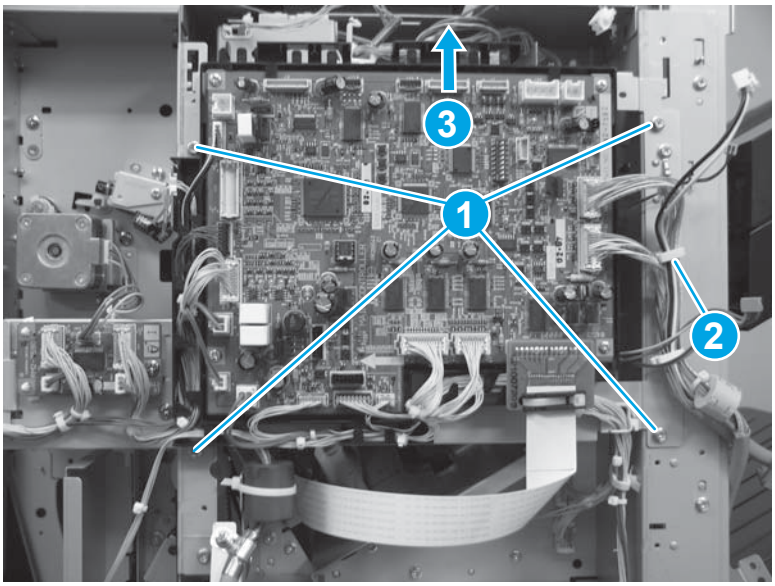
3. Disconnect two connectors (callout 1), and then release the two wire harnesses from the retainers (callout 2).

Figure 1-886 Remove the stack ejection motor assembly (3 of 7)



4. Remove four screws (callout 1), release the wire harness from one retainer (callout 2), and then slightly lift up on the controller PCA sheet-metal bracket (callout 3) to release it.

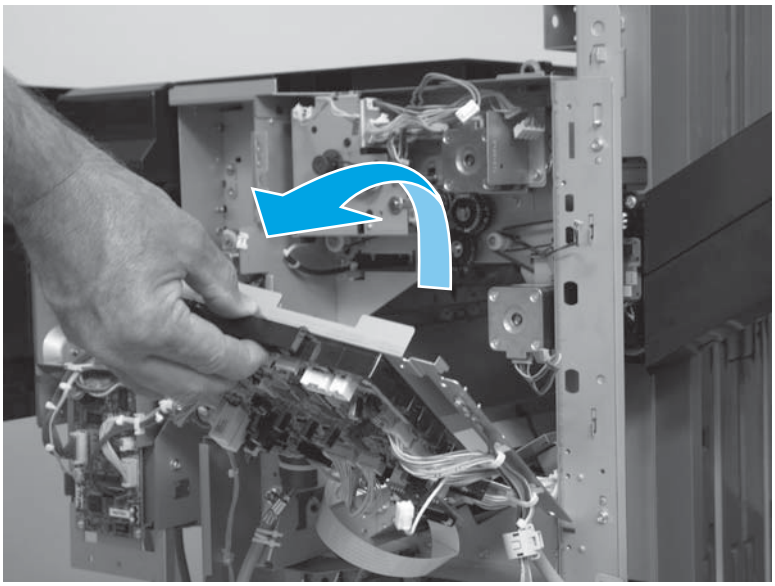
Figure 1-887 Remove the stack ejection motor assembly (4 of 7)



5. Carefully rotate the top of the controller PCA away from the chassis and move it out of the way.

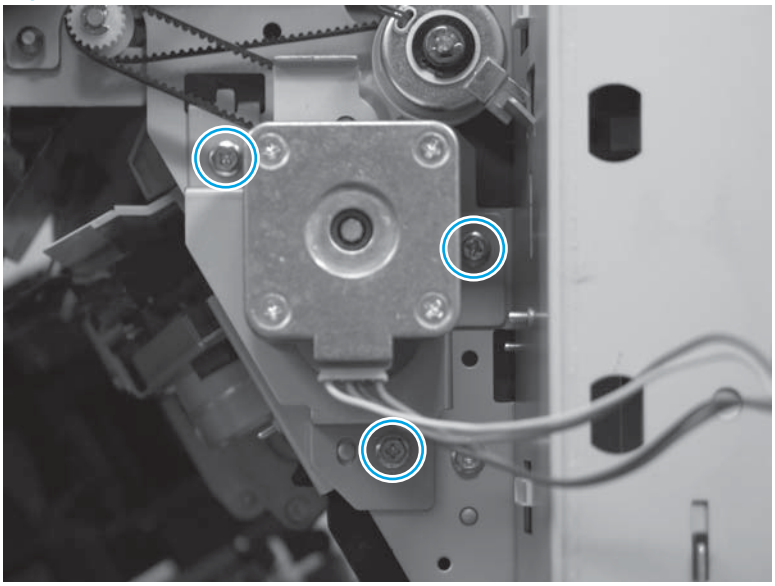
NOTE: If needed, release additional wire harnesses from retainers to make it easier to rotate the PCA out of the way.

Figure 1-888 Remove the stack ejection motor assembly (5 of 7)



6. Remove three screws.

Figure 1-889 Remove the stack ejection motor assembly (6 of 7)

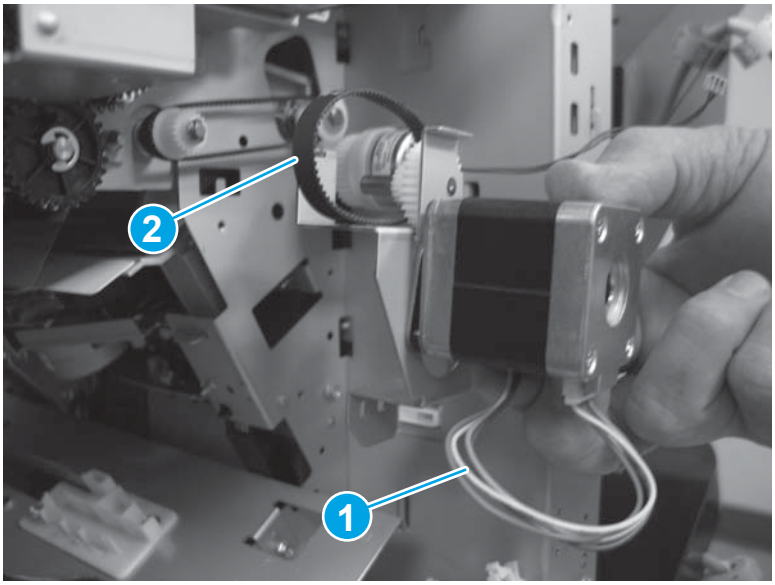


7. Remove the motor and drive belt.

CAUTION: The drive belt behind the motor is not captive. Do not lose the belt when the motor is removed.

Reinstallation tip If you are installing a replacement motor, remove the wire harness (callout 1) and drive belt (callout 2) from the discarded motor, and then install them on the replacement motor.

Figure 1-890 Remove the stack ejection motor assembly (7 of 7)



Press motor assembly

Before proceeding, remove the following assemblies:

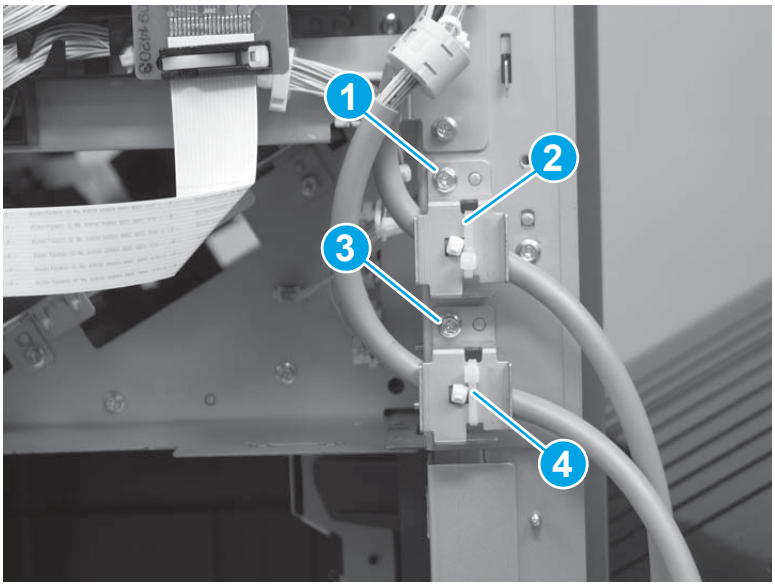
- Bin cable guide cover. See Bin cable guide cover on page 492.
- Rear cover assembly. See Rear cover assembly on page 496.

Remove the press motor assembly

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

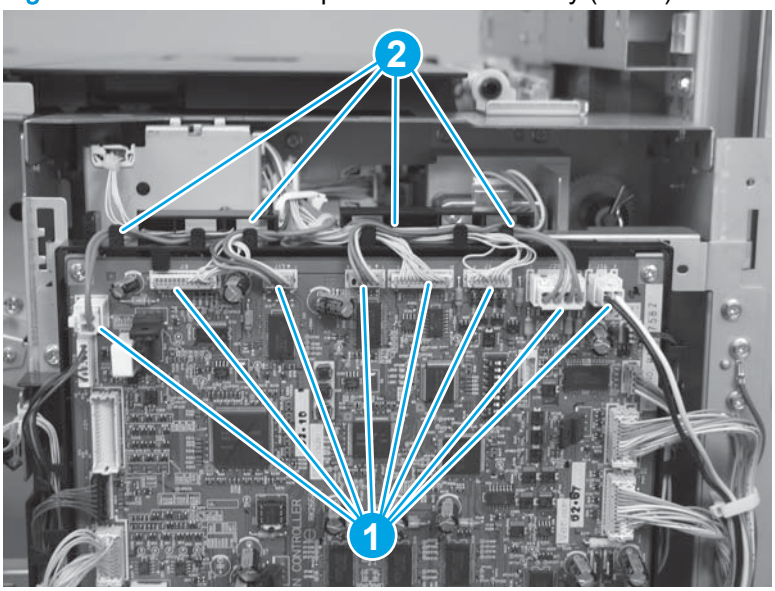
   Remove one screw (callout 3), and then remove the lower sheet-metal cable retainer (callout 4).

   Figure 1-891 Remove the press motor assembly (1 of 7)

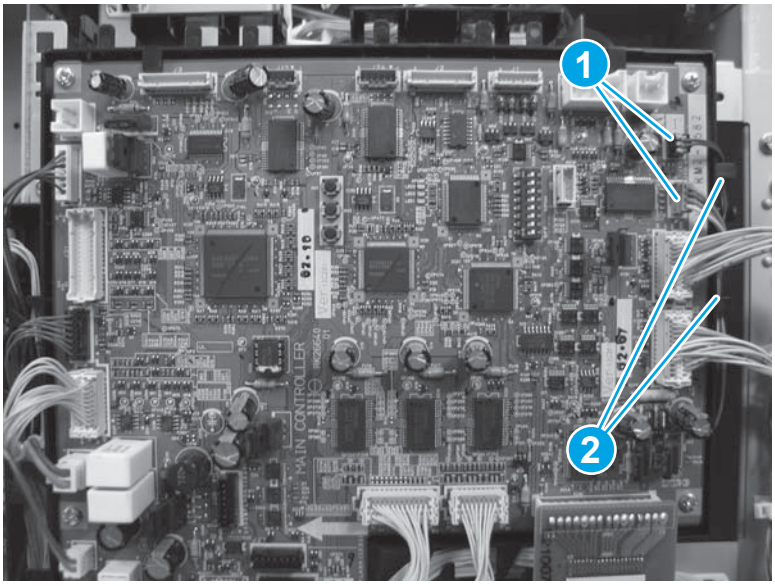
2. Disconnect eight connectors (callout 1), and then release the four wire harnesses from the retainer and guide (callout 2).

   Figure 1-892 Remove the press motor assembly (2 of 7)

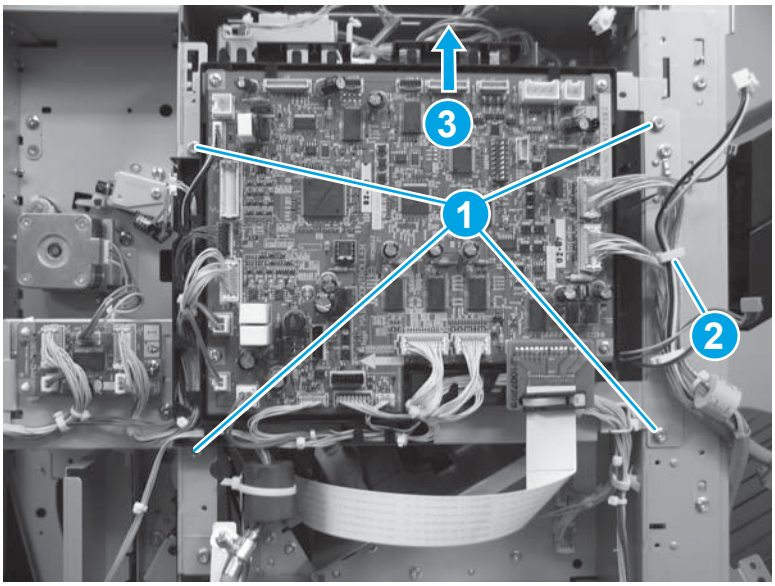
3. Disconnect two connectors (callout 1), and then release the two wire harnesses from the retainers (callout 2).

Figure 1-893 Remove the press motor assembly (3 of 7)



4. Remove four screws (callout 1), release the wire harness from one retainer (callout 2), and then slightly lift up on the controller assembly PCA sheet-metal bracket (callout 3) to release it.

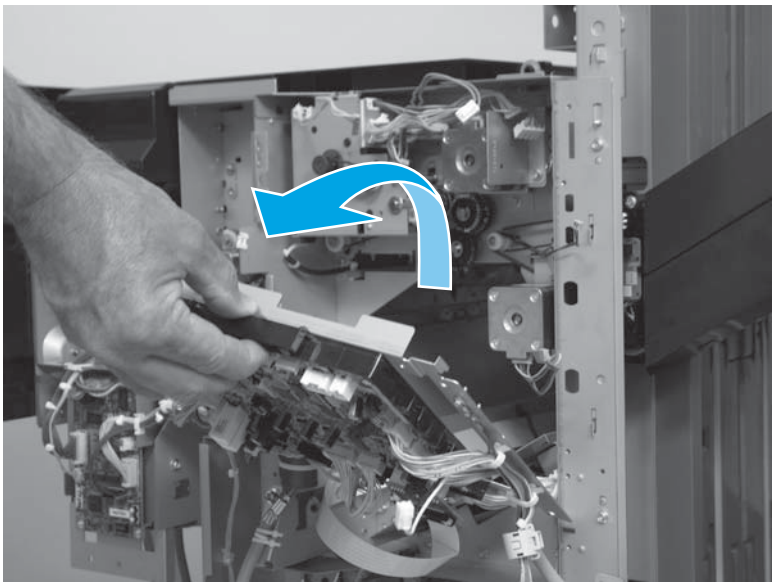
Figure 1-894 Remove the press motor assembly (4 of 7)



5. Carefully rotate the top of the controller PCA away from the chassis and move it out of the way.

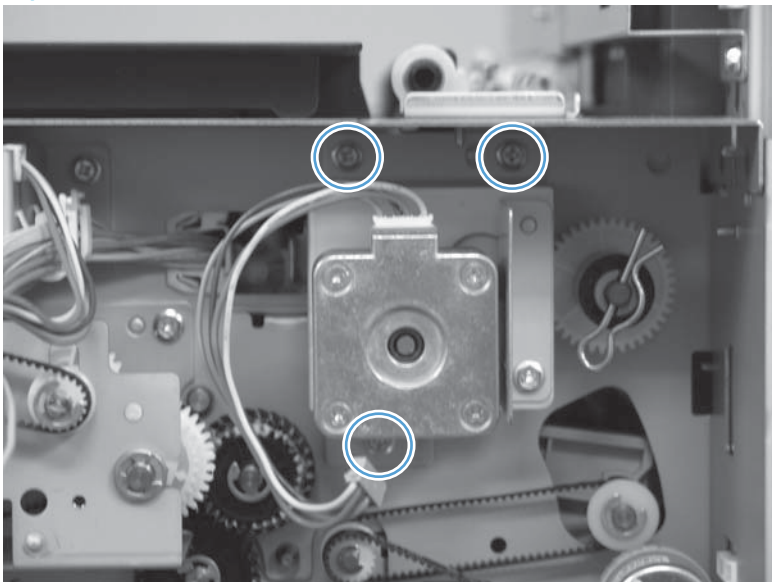
NOTE: If needed, release additional wire harnesses from retainers to make it easier to rotate the PCA out of the way.

Figure 1-895 Remove the press motor assembly (5 of 7)



6. Support the motor, and then remove three screws.

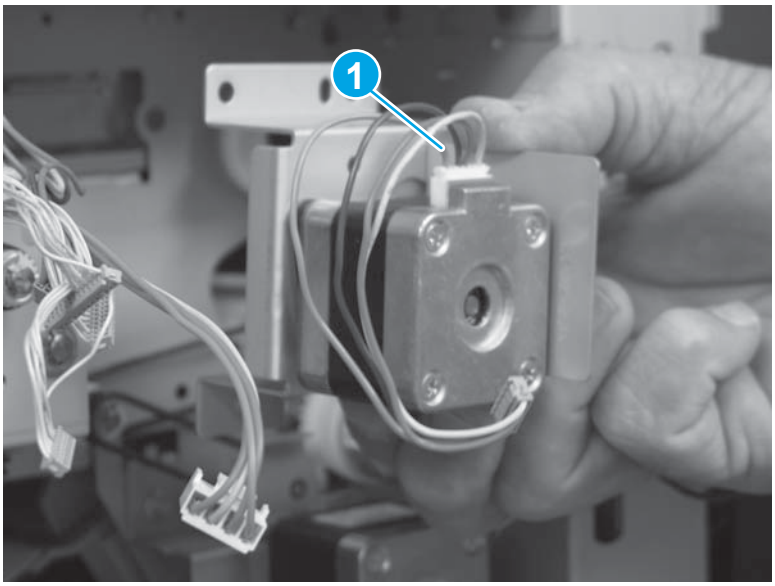
Figure 1-896 Remove the press motor assembly (6 of 7)



7. Remove the motor.

Reinstallation tip If you are installing a replacement motor, remove the wire harness (callout 1) from the discarded motor, and then install it on the replacement motor.

Figure 1-897 Remove the press motor assembly (7 of 7)



Common driver PCA assembly

NOTE: Only the booklet maker and stapler stacker accessories have a common driver PCA.

Before proceeding, remove the following assemblies:

- Bin cable guide cover. See Bin cable guide cover on page 492.
- Rear cover assembly. See Rear cover assembly on page 496.

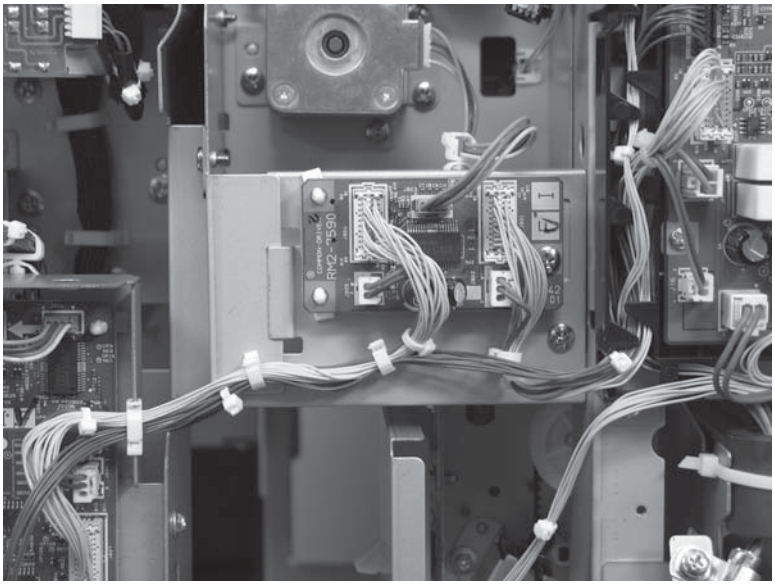
Remove the common controller PCA assembly

CAUTION: ESD sensitive assembly.

NOTE: The following connectors are not used on the PCA: J804, and J805.

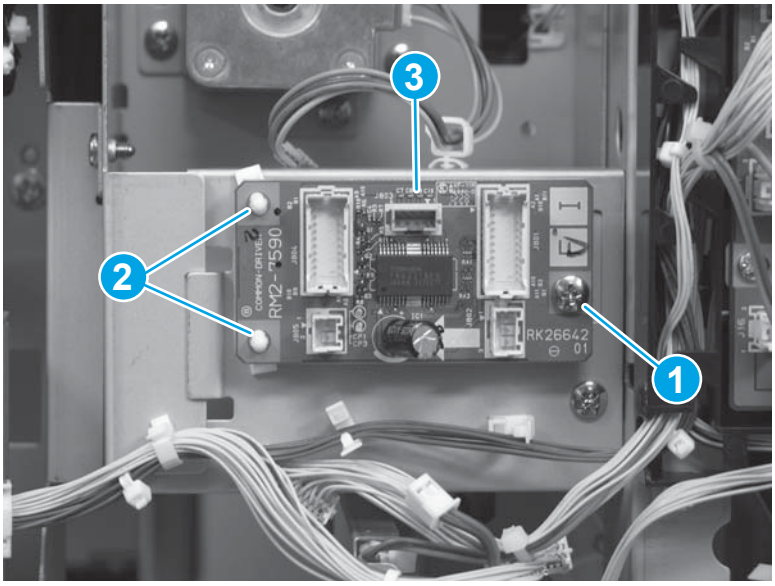
1. Disconnect all of the connectors.

Figure 1-898 Remove the common driver PCA assembly (1 of 2)



2. Remove one screw (callout 1), use a pair of needle-nose pliers to release two standoffs (callout 2), and then remove the PCA (callout 3).

Figure 1-899 Remove the common driver PCA assembly (2 of 2)



Interface cable assembly

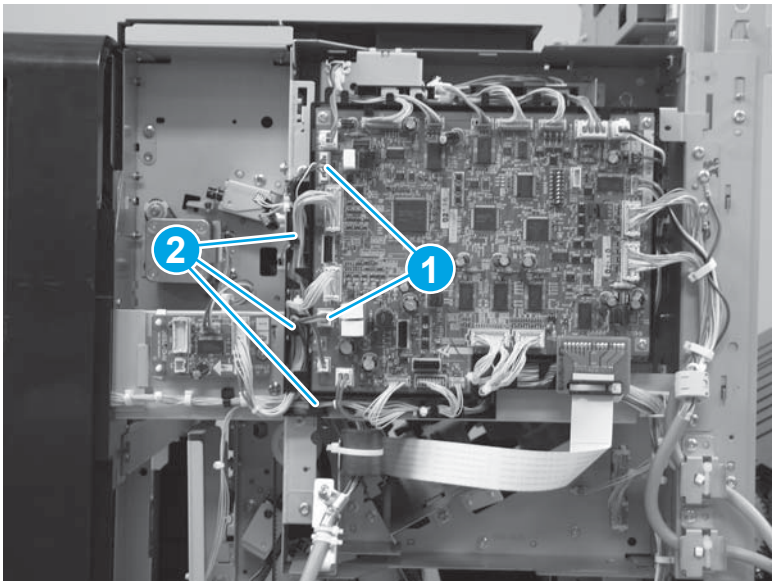
Before proceeding, remove the following assemblies:

- Bin cable guide cover. See Bin cable guide cover on page 492.
- Rear cover assembly. See Rear cover assembly on page 496.

Remove the interface cable assembly

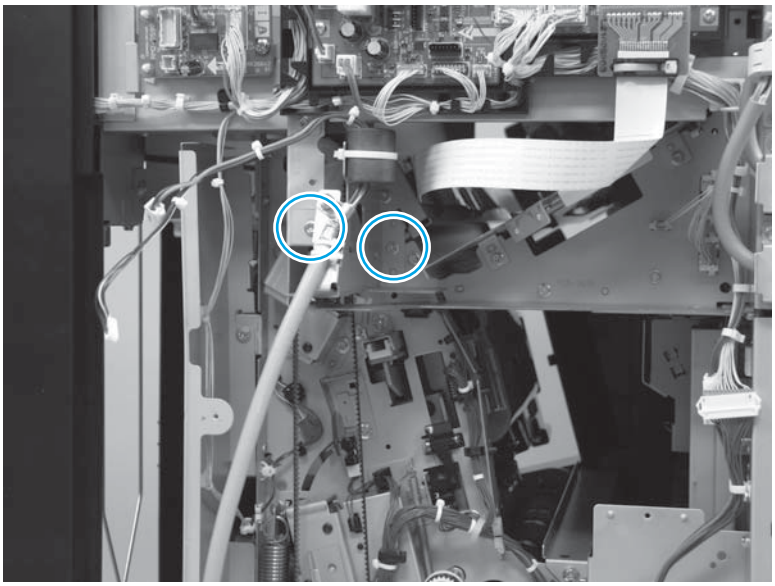
1. Disconnect two connectors on the main controller PCA (J11 and J29; callout 1), and then release the wire harness from the retainer (callout 2).

Figure 1-900 Remove the interface cable assembly (1 of 3)



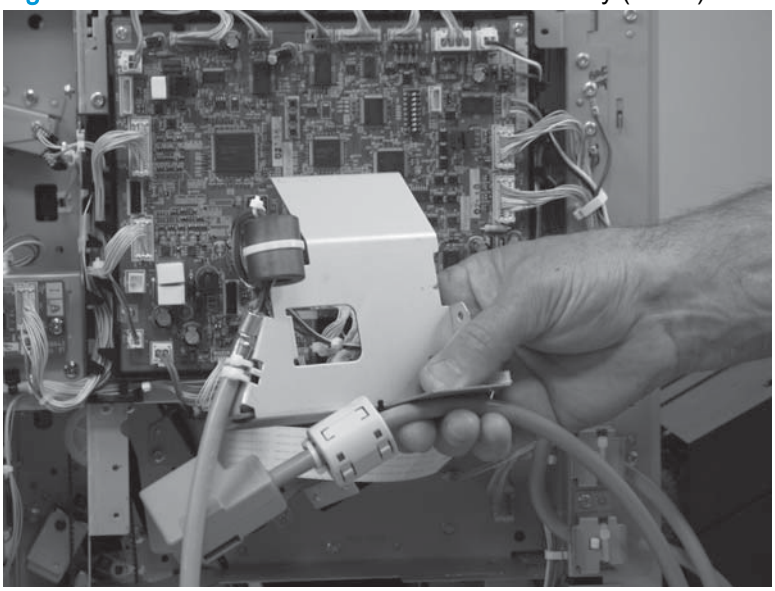
2. Remove two screws.

Figure 1-901 Remove the interface cable assembly (2 of 3)



3. Remove the assembly.

Figure 1-902 Remove the interface cable assembly (3 of 3)



Paper pass assembly

NOTE: This assembly is installed only on the stapler/stacker (SS) model.

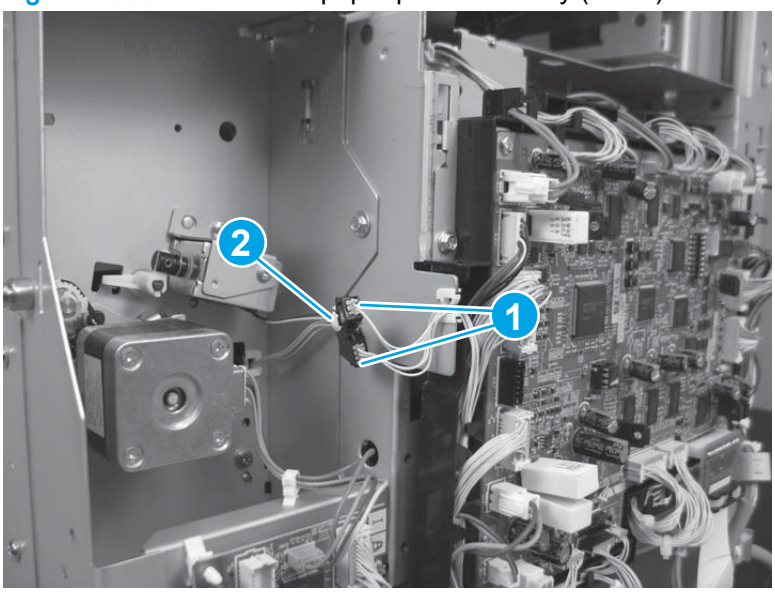
Before proceeding, remove the following assemblies:

- Latch lower covers (front and rear). See Latch lower covers (front and rear) on page 468.
- Latch assembly. See Latch assembly on page 470.
- Front door. See Front door on page 479.
- Inner upper cover. See Inner upper cover assembly on page 480.
- Bin cable guide cover. See Bin cable guide cover on page 492.
- Rear cover assembly. See Rear cover assembly on page 496.
- For all models with a hole punch assembly installed:
  - Punch lower front cover assembly. See Punch lower front cover assembly on page 684.
  - Punch rear cover assembly. See Punch rear cover assembly on page 686.
  - Punch waste tray. See Punch waste tray on page 688.
  - Punch inner cover assembly. See Punch inner cover assembly on page 689.
  - Punch upper cover assembly. See Punch top cover on page 691.
  - Punch hole assembly. See Punch hole assembly on page 694.

Remove the paper pass assembly

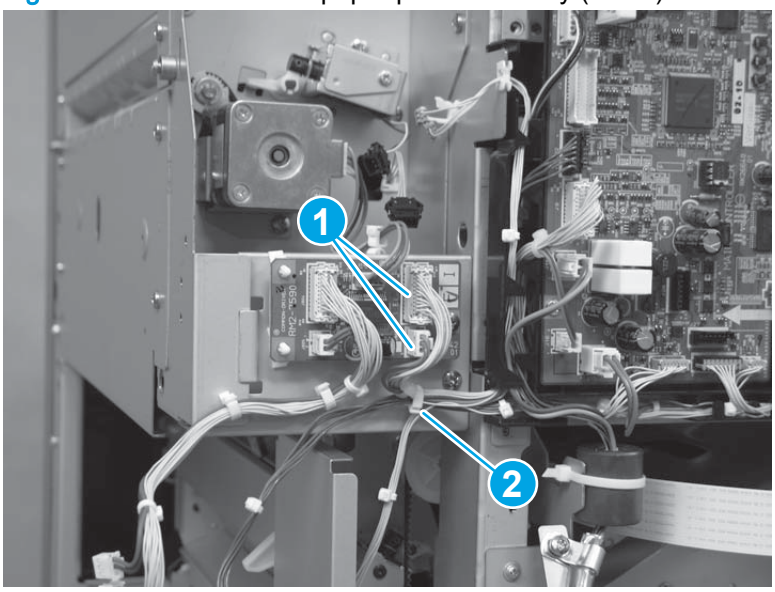
1. Disconnect two in-line connectors (callout 1), and then release the wire harnesses from one retainer (callout 2).

Figure 1-903 Remove the paper pass assembly (1 of 6)



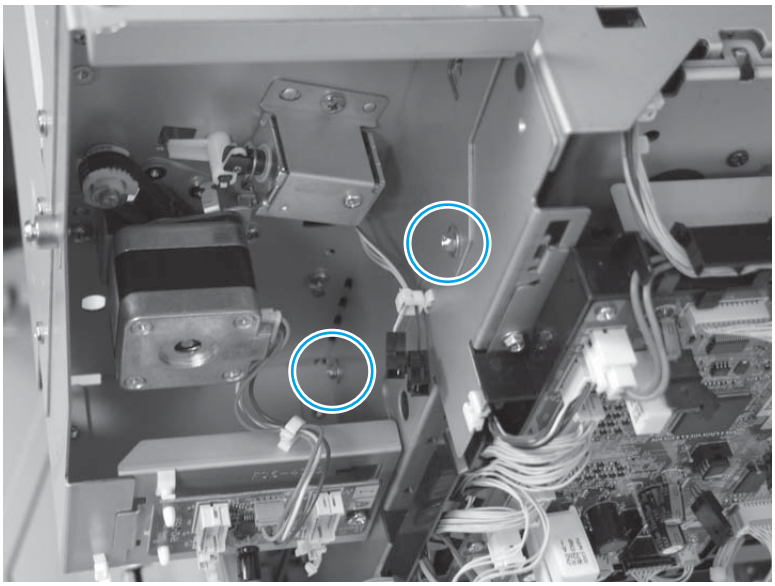
2. Disconnect two connectors (callout 1), and then release the wire harnesses from one retainer (callout 2).

Figure 1-904 Remove the paper pass assembly (2 of 6)



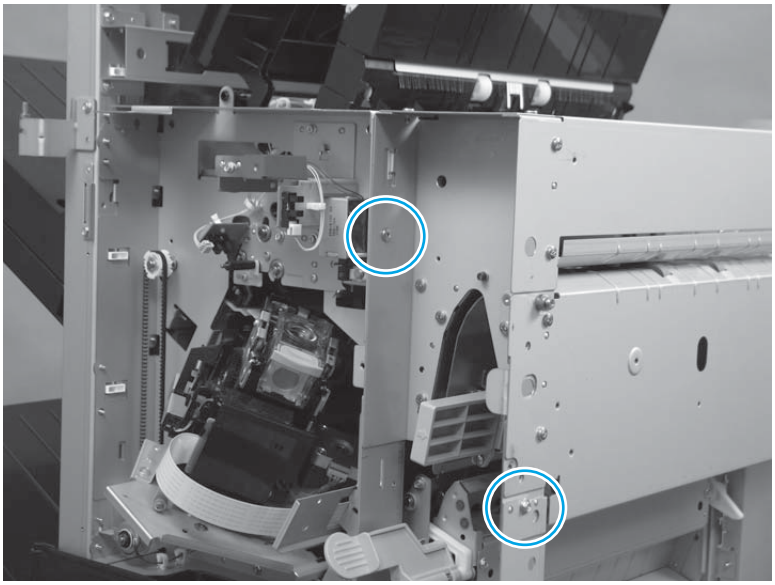
3. Remove two screws.

Figure 1-905 Remove the paper pass assembly (3 of 6)



4. Remove two screws.

Figure 1-906 Remove the paper pass assembly (4 of 6)



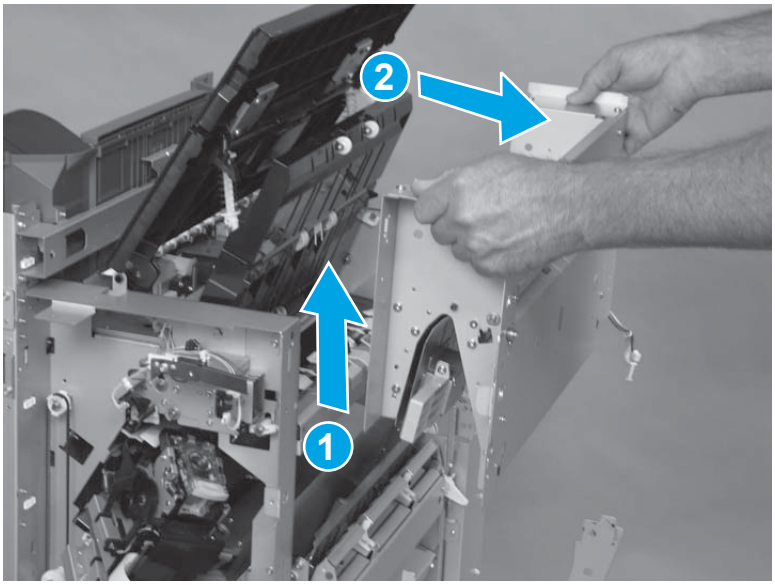
5. Remove two screws.

TIP: These screws are located under the assembly, near the saddle guide assembly.

Figure 1-907 Remove the paper pass assembly (5 of 6)

6. Lift the assembly up to release it (callout 1), and then remove the assembly (callout 2).

Figure 1-908 Remove the paper pass assembly (6 of 6)



Booklet maker accessory

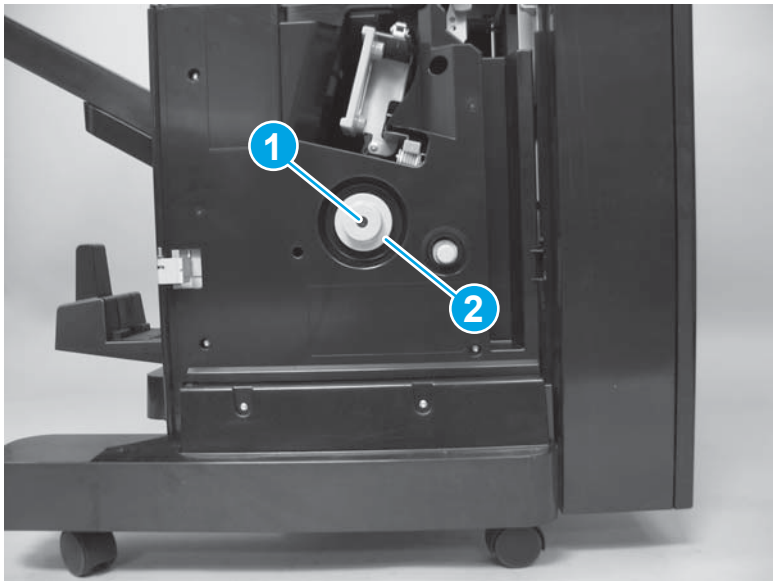
The assemblies described in this section are unique to the booklet-maker (BM) finishing accessory. For information about removing and replacing assemblies that are common to all of the finishing accessories, see Shared finishing accessory assemblies on page 464.

- Knob
- Saddle output bin assembly
- Right cover assembly (BM PCA)
- Booklet maker controller PCA
- Inner side plate assembly
- Guide sensor assembly
- Guide motor assembly
- Saddle motor assembly (SS and BM)
- Saddle feed motor assembly
- Folding-motor mount assembly
- Delivery switch mount assembly
- Saddle stapler assembly
- Lower left guide assembly
- Saddle delivery inner cover, front assembly
- Saddle delivery inner cover, rear assembly
- Saddle guide assembly
- Saddle feed assembly
- Saddle assembly
- Upper delivery guide assembly
- Saddle paper delivery assembly
- Saddle rear end sensor assembly

Knob

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

Figure 1-909 Remove the knob



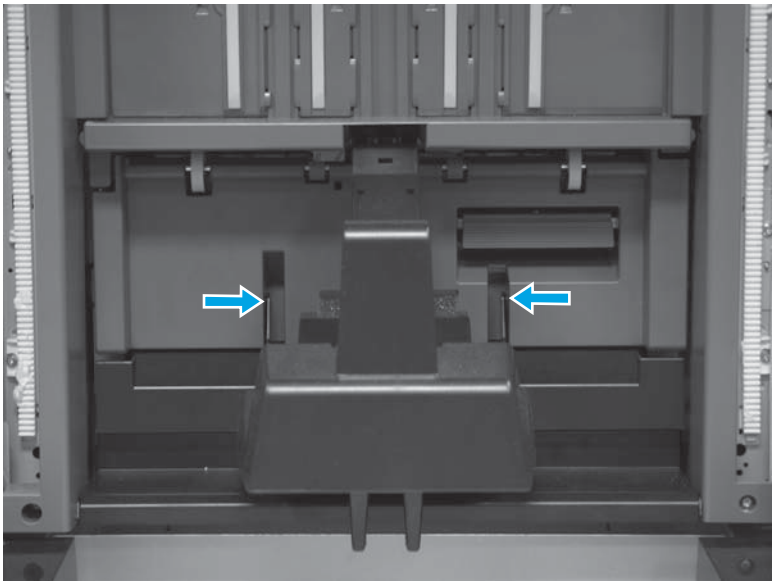
Saddle output bin assembly

1. Carefully push in on the bin hinges to release the hinge pins, and then separate the bin from the finishing accessory.

CAUTION: The saddle output bin is still connected to the finishing accessory by a wire harness. Do not attempt to completely remove the bin.

TIP: Use a small flat-blade screwdriver to push in on the bin hinges and release them.

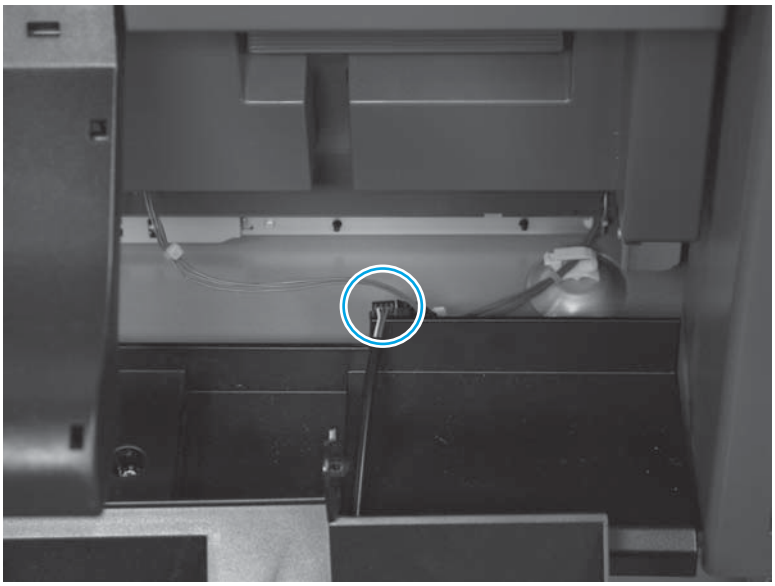
Figure 1-910 Remove the saddle output bin assembly (1 of 2)



2. Disconnect one in-line connector, and then remove the bin.

Reinstallation tip Make sure that this connector is reconnected before you reinstall the assembly.

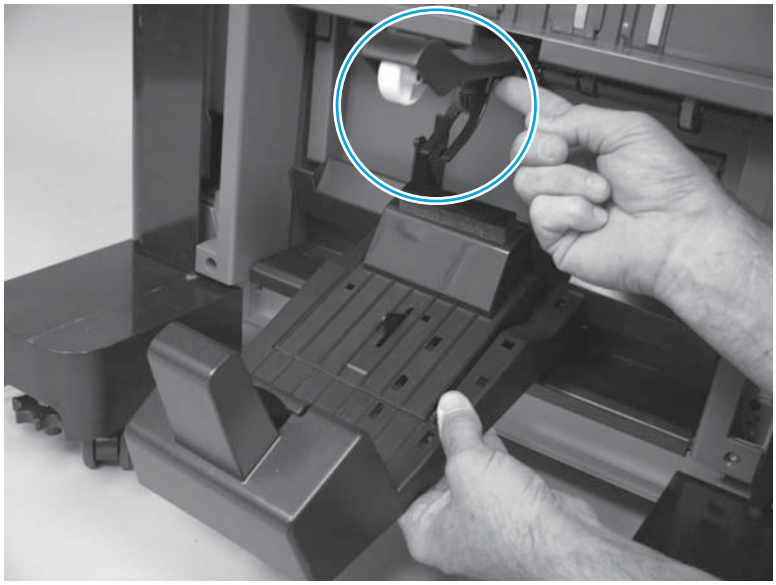
Figure 1-911 Remove the saddle output bin assembly (2 of 2)



Reinstall the saddle output bin

The spring loaded arm above the saddle output bin assembly can be easily dislodged. Hold the arm out of the way when you position the assembly on the accessory. Make sure that the arm is intact when the assembly is installed.

Figure 1-912 Reinstall the saddle output bin assembly



Right cover assembly (BM PCA)

NOTE: For booklet maker (BM) models only.

Before proceeding, remove the following assemblies:

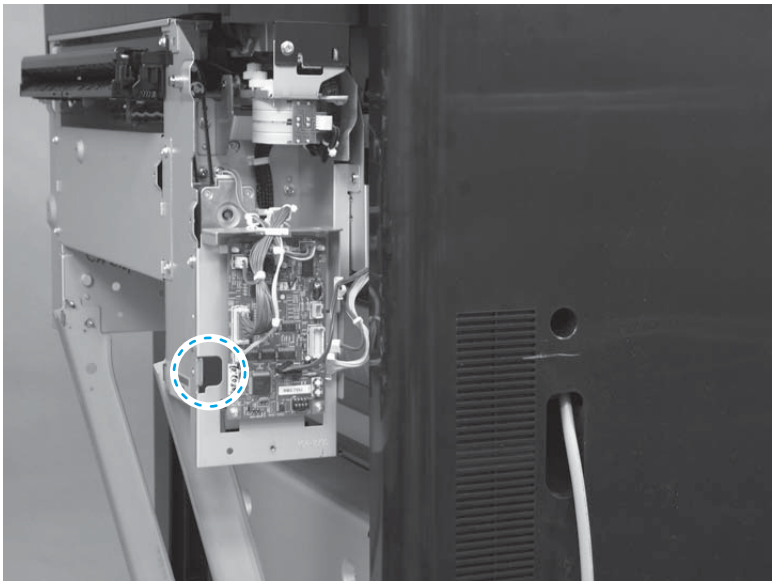
- Latch lower covers (front and rear). See Latch lower covers (front and rear) on page 468.
- Latch assembly. See Latch assembly on page 470.
- For all models with a hole punch assembly installed:
  - Punch lower front cover assembly. See Punch lower front cover assembly on page 684.
  - Punch rear cover assembly. See Punch rear cover assembly on page 686.
  - Punch waste tray. See Punch waste tray on page 688.
  - Punch inner cover assembly. See Punch inner cover assembly on page 689.
  - Punch upper cover assembly. See Punch top cover on page 691.
  - Punch hole assembly. See Punch hole assembly on page 694.

Remove the right cover assembly (BM PCA)

1. Remove two screws.

TIP: These screws fasten the rear sheet-metal support bracket to the punch assembly. Use the hole provided in the chassis next to the punch controller PCA to gain access to these screws.

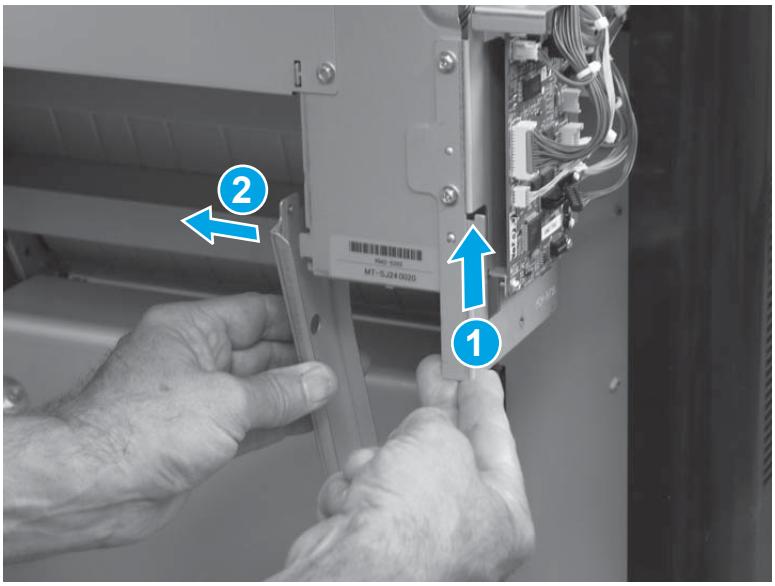
Figure 1-913 Remove the right cover assembly (BM PCA; 1 of 7)



2. Slightly lift up on the punch hole assembly (callout 1), and then disengage the sheet-metal support bracket (callout 2).

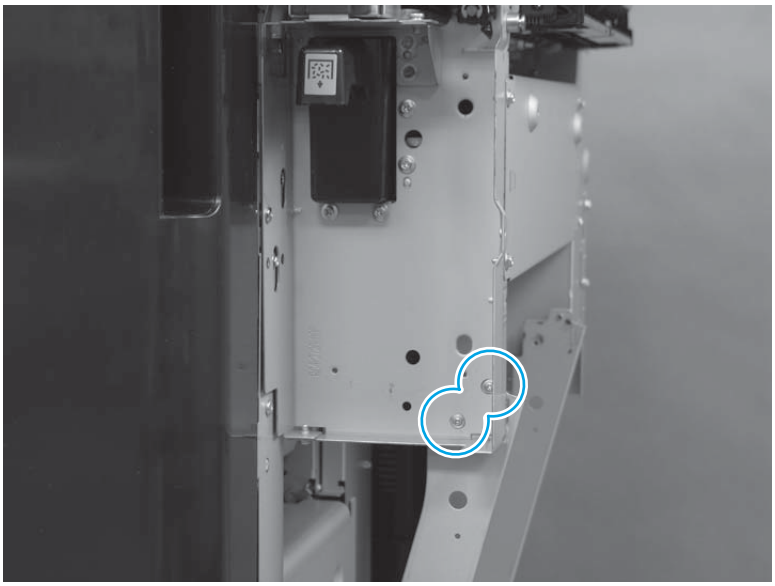
NOTE: The punch hole assembly is still fastened to the accessory chassis, but you should be able to disengage the support bracket.

Figure 1-914 Remove the right cover assembly (BM PCA; 2 of 7)



3. Remove two screws.

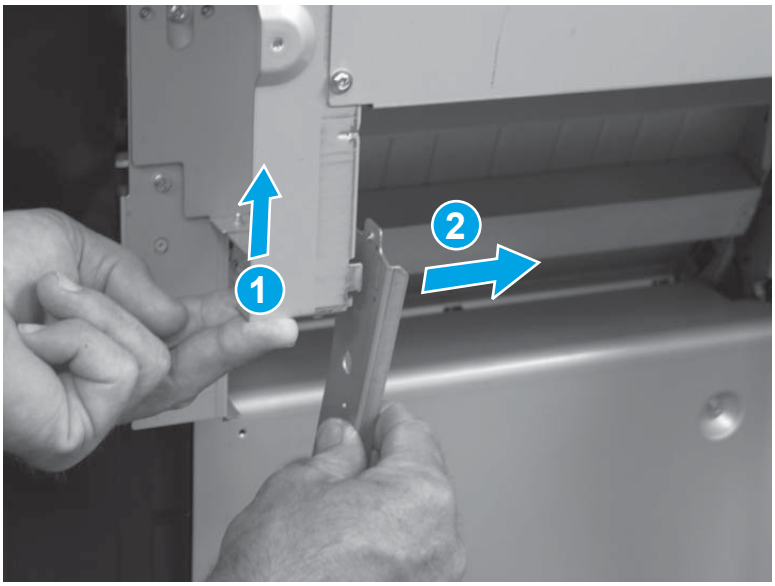
Figure 1-915 Remove the right cover assembly (BM PCA; 3 of 7)



4. Slightly lift up on the punch hole assembly (callout 1), and then disengage the sheet-metal support bracket (callout 2).

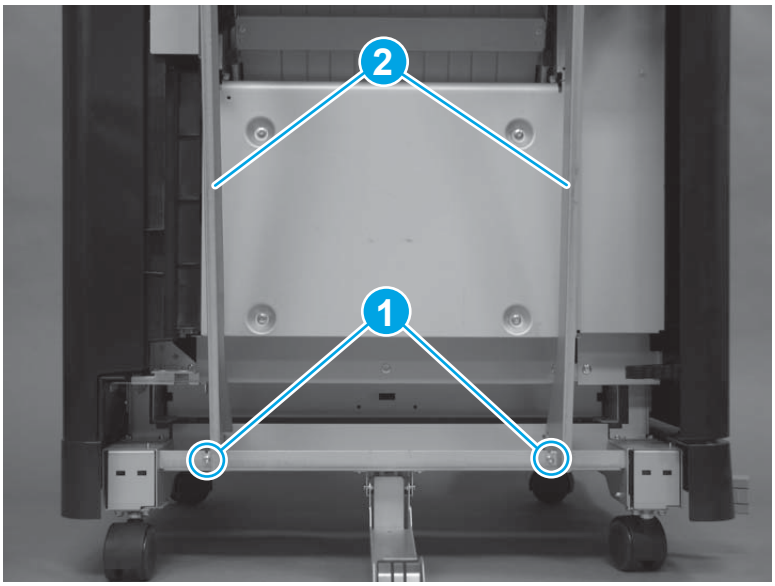
NOTE: The punch hole assembly is still fastened to the accessory chassis, but you should be able to disengage the support bracket.

Figure 1-916 Remove the right cover assembly (BM PCA; 4 of 7)



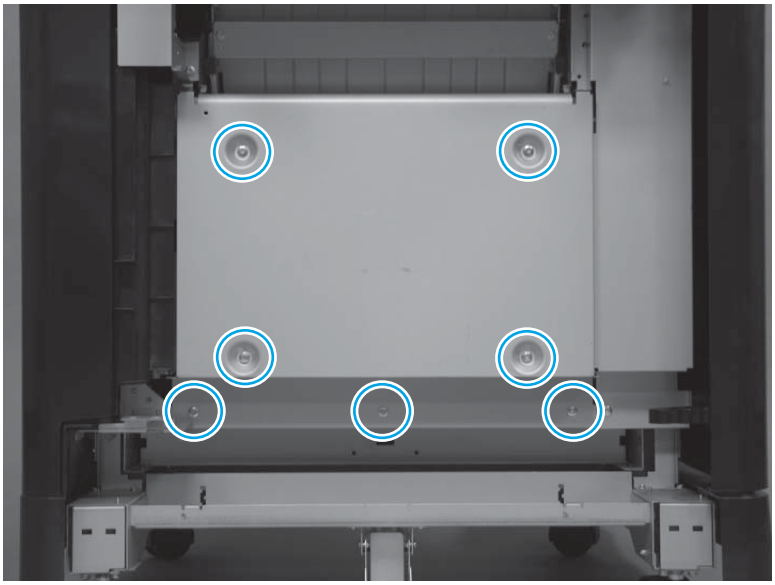
5. Remove two screws (callout 1), and then remove the sheet-metal support brackets (callout 2).

Figure 1-917 Remove the right cover assembly (BM PCA; 5 of 7)



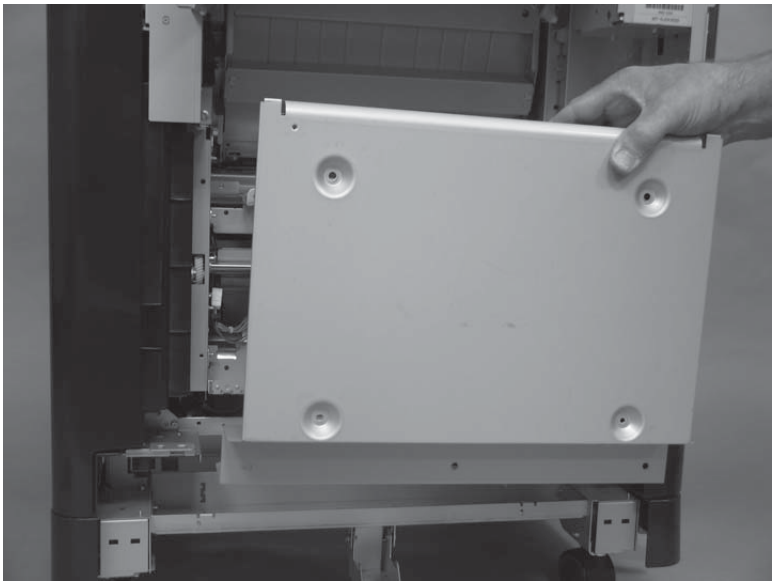
6. Remove seven screws.

Figure 1-918 Remove the right cover assembly (BM PCA; 6 of 7)



7. Remove the cover.

Figure 1-919 Remove the right cover assembly (BM PCA; 7 of 7)



Booklet maker controller PCA

Before proceeding, remove the following assemblies:

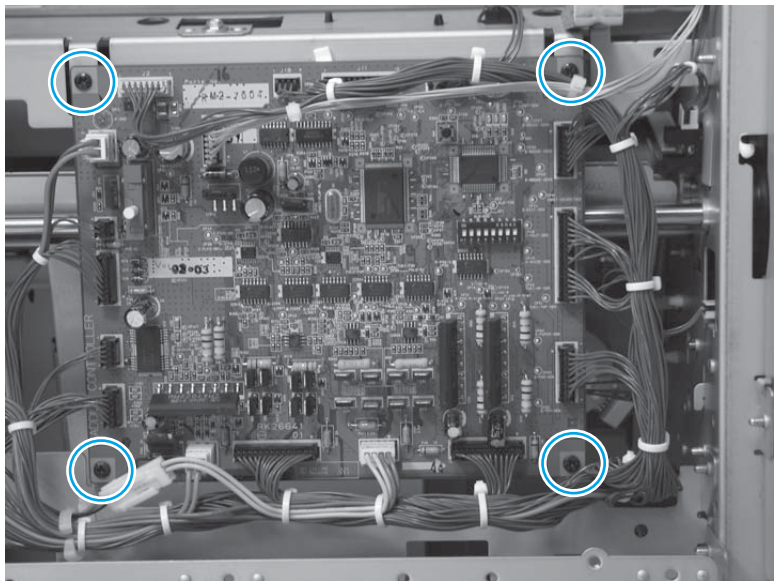
- Latch lower covers (front and rear). See Latch lower covers (front and rear) on page 468.
- Right cover assembly (BM PCA). See Right cover assembly (BM PCA) on page 611.

Remove the booklet maker controller PCA

⚠ CAUTION: ESD sensitive assembly.

Disconnect all of the connectors, remove four screws, and then remove the PCA.

Figure 1-920 Remove the booklet maker controller PCA



Inner side plate assembly

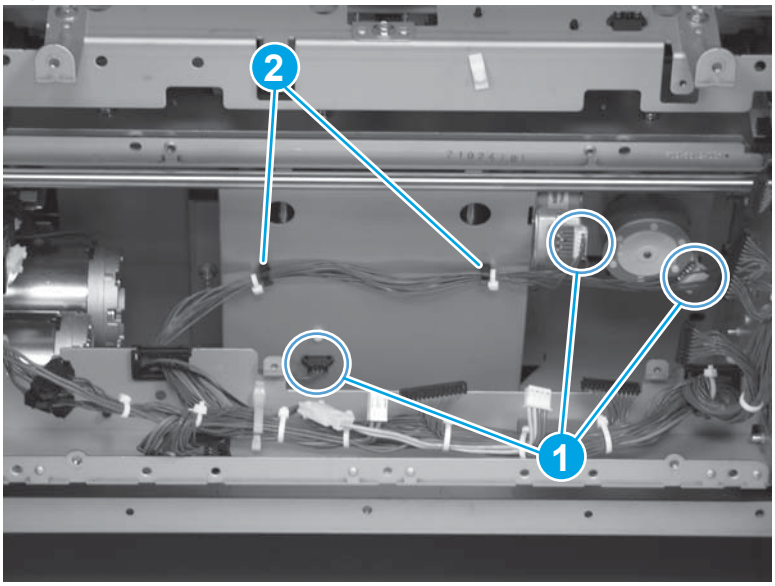
Before proceeding, remove the following assemblies:

- Latch lower covers (front and rear). See Latch lower covers (front and rear) on page 468.
- Bin cable guide cover. See Bin cable guide cover on page 492.
- Rear cover assembly. See Rear cover assembly on page 496.
- Right cover assembly (BM PCA). See Right cover assembly (BM PCA) on page 611.
- Booklet maker controller PCA. See Booklet maker controller PCA on page 615.

Remove the inner side plate assembly

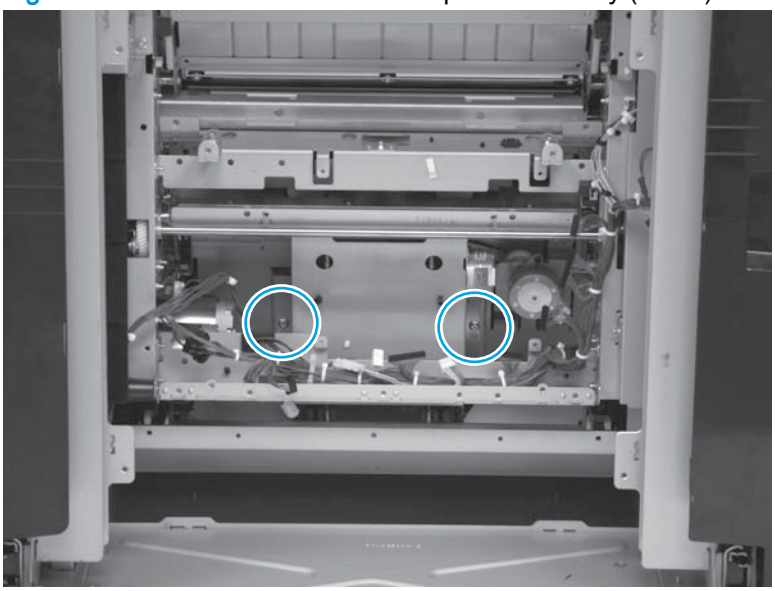
1. Disconnect three connectors (callout 1), and then release the wire harnesses from two retainers (callout 2).

Figure 1-921 Remove the inner side plate assembly (1 of 8)



2. Remove two screws.

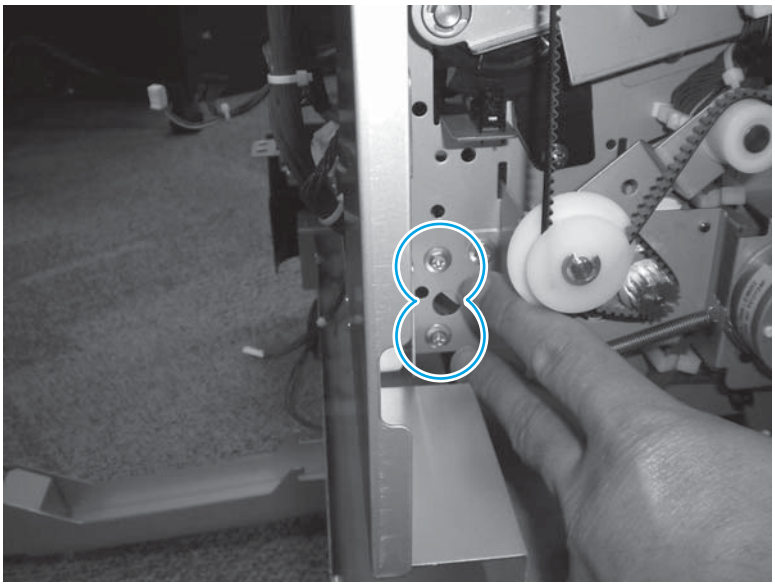
Figure 1-922 Remove the inner side plate assembly (2 of 8)



3. At the drive gear side of the accessory, remove two screws.

TIP: Removing these screws loosens the tray under the assembly. When the tray is loose it can be slightly moved out of the way, which makes removing the inner side plate assembly easier.

Figure 1-923 Remove the inner side plate assembly (3 of 8)

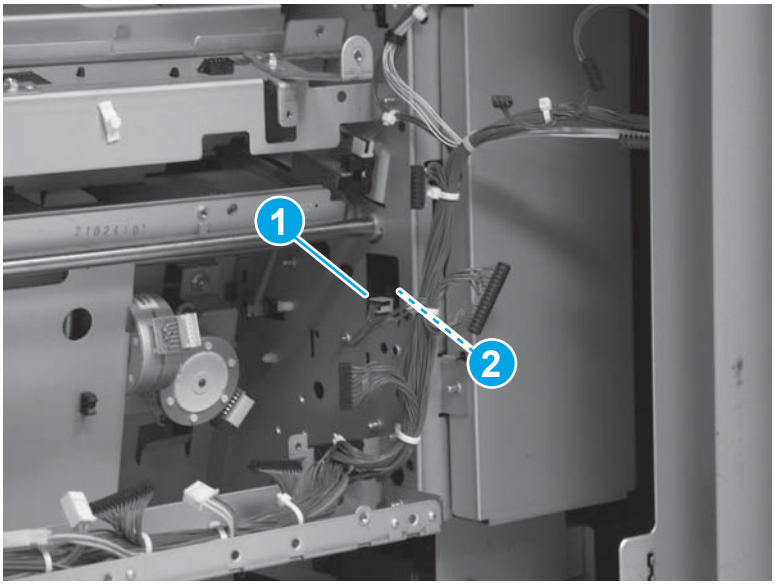


4. Disconnect one connector (callout 1), and move the wire harness out of the way.

CAUTION: When you remove the assembly, do not allow the right end of the shaft on the assembly damage the sensor (callout 2).

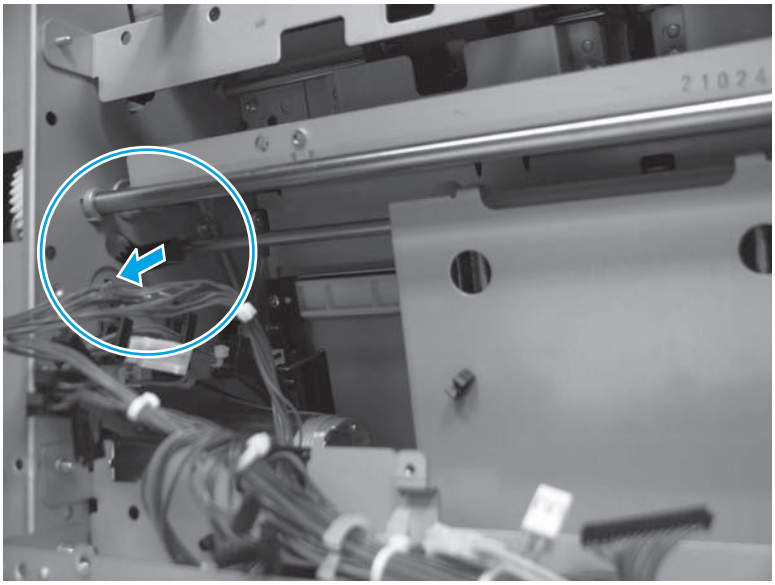
Reinstallation tip Make sure that you reconnect the sensor connector (callout 1) when the assembly is reinstalled.

Figure 1-924 Remove the inner side plate assembly (4 of 8)



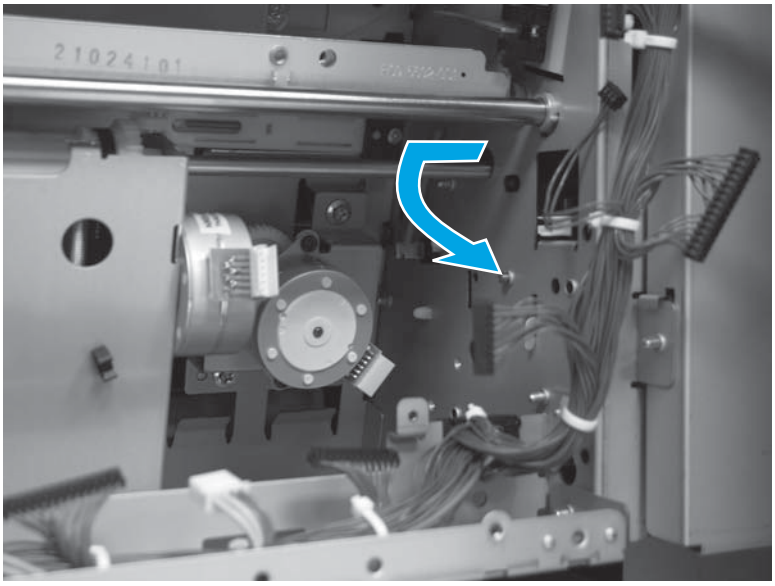
5. Slide the left end of the assembly shaft forward in the mounting hole provided in the chassis.

Figure 1-925 Remove the inner side plate assembly (5 of 8)



6. Slightly slide the assembly toward the left, and then rotate the right side of the shaft out of the hole in the chassis.

Figure 1-926 Remove the inner side plate assembly (6 of 8)

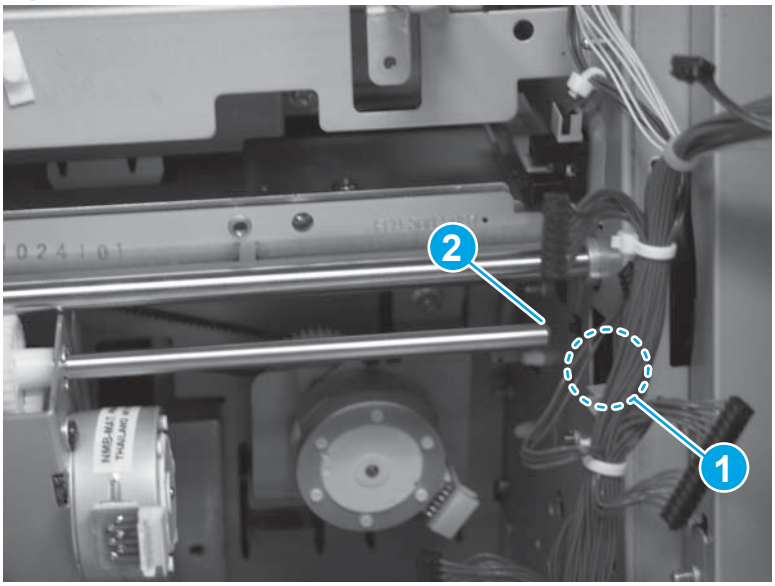


7. Continue to move the assembly toward the left until the right side of the shaft is past the chassis.

CAUTION: Do not damage the sensor (callout 1) with the end of the shaft (callout 2) when the shaft is rotated out of the chassis.

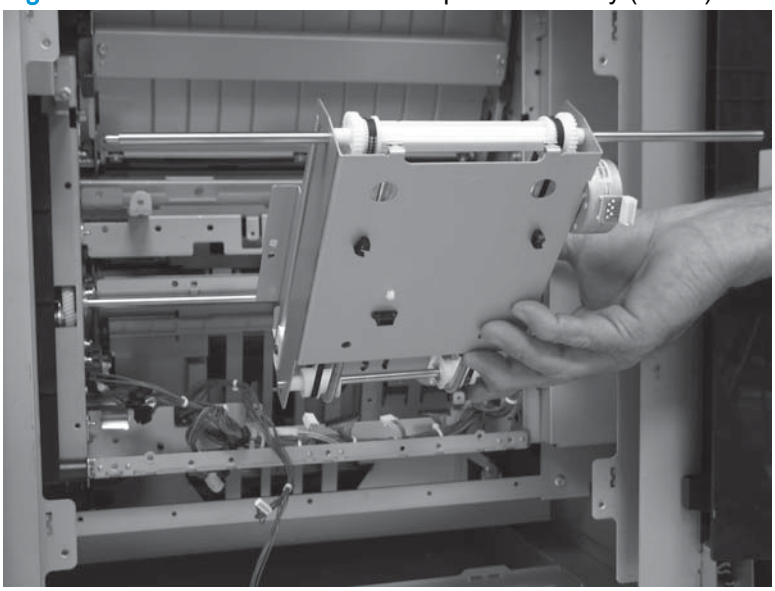
TIP: The assembly might feel stuck as you remove it. Continue to move the assembly left, and rotate the right end of the shaft out of the chassis. It might take some time to get the shaft out of the chassis.

Figure 1-927 Remove the inner side plate assembly (7 of 8)



8. Carefully remove the assembly.

Figure 1-928 Remove the inner side plate assembly (8 of 8)



Before reinstalling the inner side plate assembly

To avoid damage to the assembly sensors, and to make reinstallation of the assembly easier, move the inner plate on the assembly to the middle of the inner plate assembly. After positioning the inner plate assembly, go to Reinstall the inner side plate assembly on page 621.

Figure 1-929 Inner plate assembly in the up position

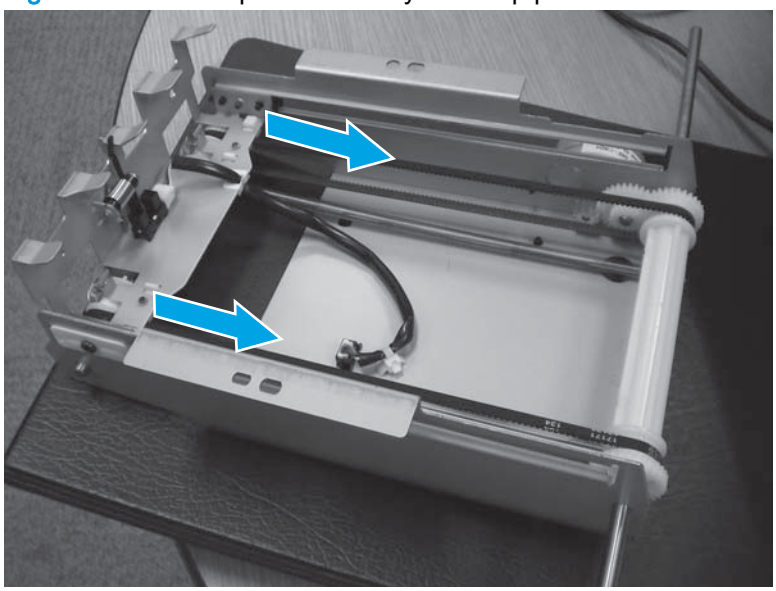
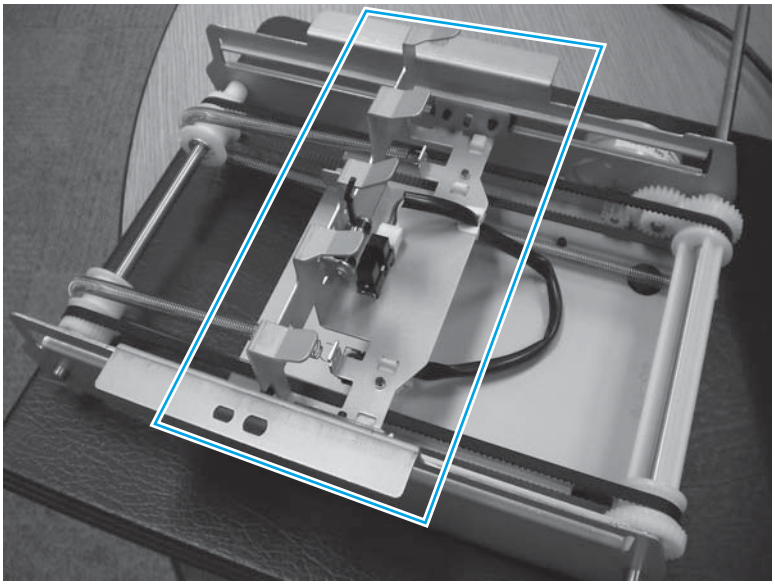


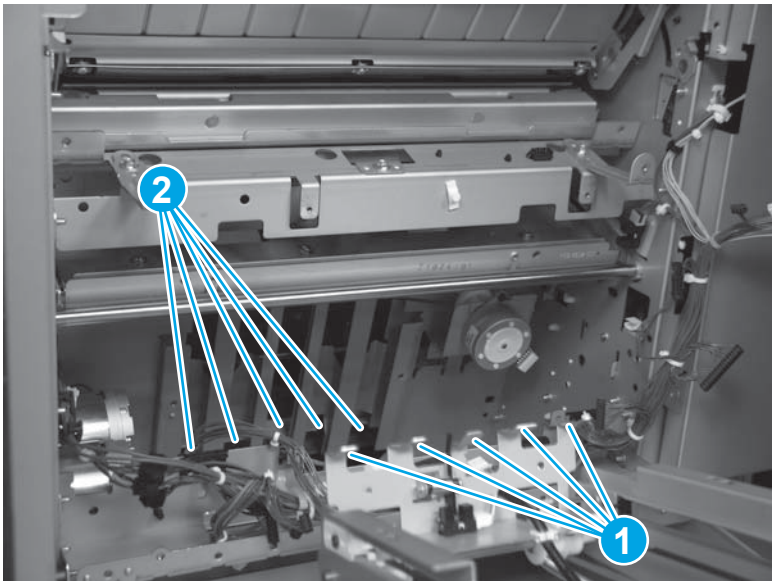
Figure 1-930 Inner plate assembly in the middle position



Reinstall the inner side plate assembly

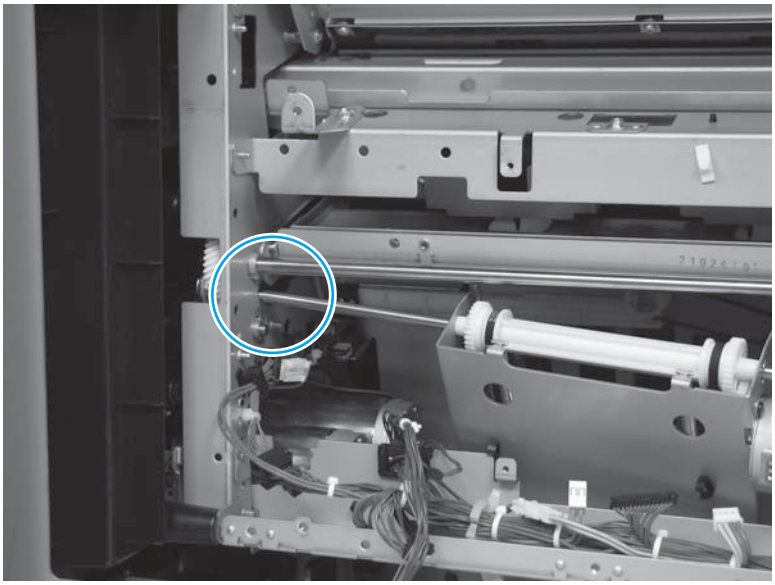
1. Position the assembly in the chassis by aligning the sheet-metal fingers of the inner plate assembly (callout 1) with the slots (callout 2) in the saddle assembly.

Figure 1-931 Reinstall the inner side plate assembly (1 of 3)



2. Slide the left end of the assembly shaft into the hole in the chassis.

Figure 1-932 Reinstall the inner side plate assembly (2 of 3)

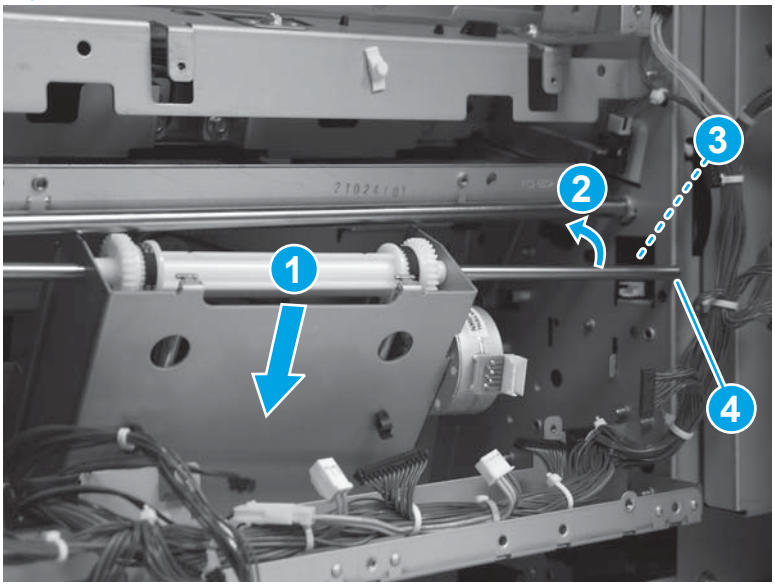


3. Push down on the assembly (callout 1) while rotating (callout 2) the right end of the shaft into the chassis.

CAUTION: Do not damage the sensor (callout 3) with the end of the shaft (callout 4) when the shaft is rotated into the chassis.

TIP: The assembly might feel stuck as you install it. Continue to move the assembly left, and rotate the right end of the shaft into the chassis. It might take some time to get the shaft into the chassis.

Figure 1-933 Reinstall the inner side plate assembly (3 of 3)



Guide sensor assembly

Before proceeding, remove the following assemblies:

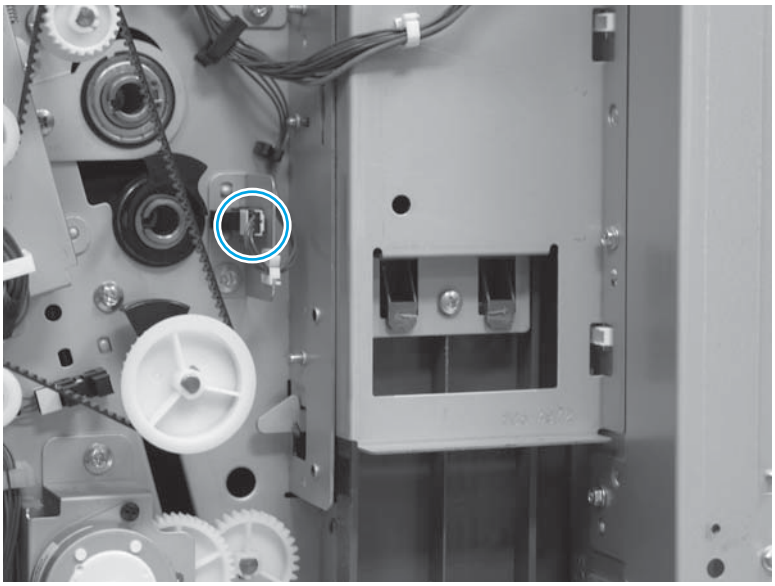
- Bin cable guide cover. See Bin cable guide cover on page 492.
- Rear cover assembly. See Rear cover assembly on page 496.

Remove the guide sensor assembly

NOTE: This assembly is the folding roller home position sensor.

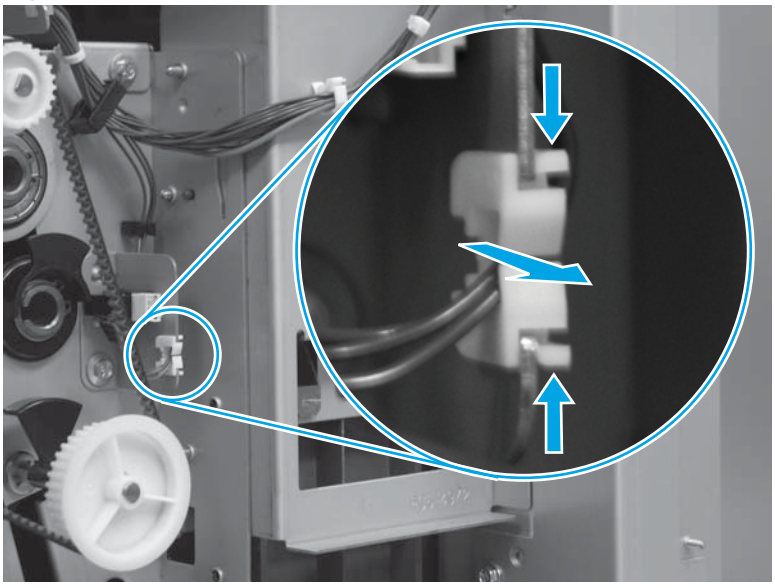
1. Disconnect one connector.

Figure 1-934 Remove the guide sensor assembly (1 of 4)



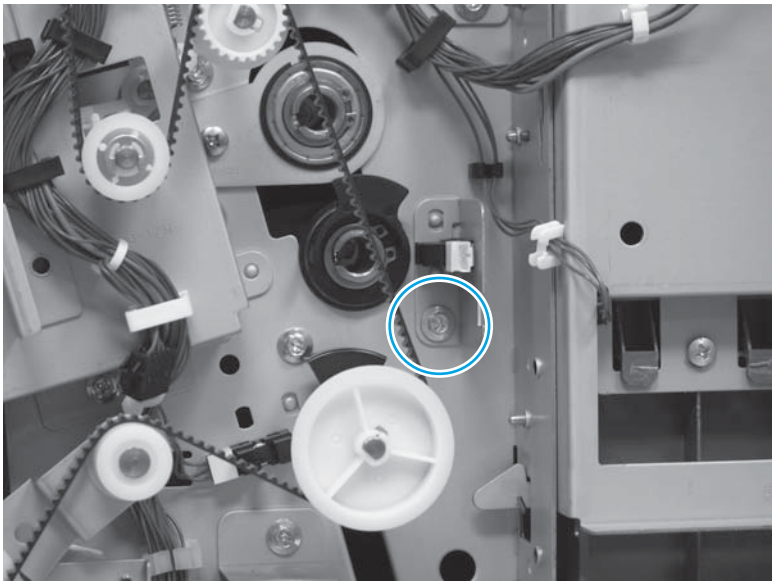
2. Release two tabs on the retainer, and the remove the retainer from the sheet-metal bracket.

Figure 1-935 Remove the guide sensor assembly (2 of 4)



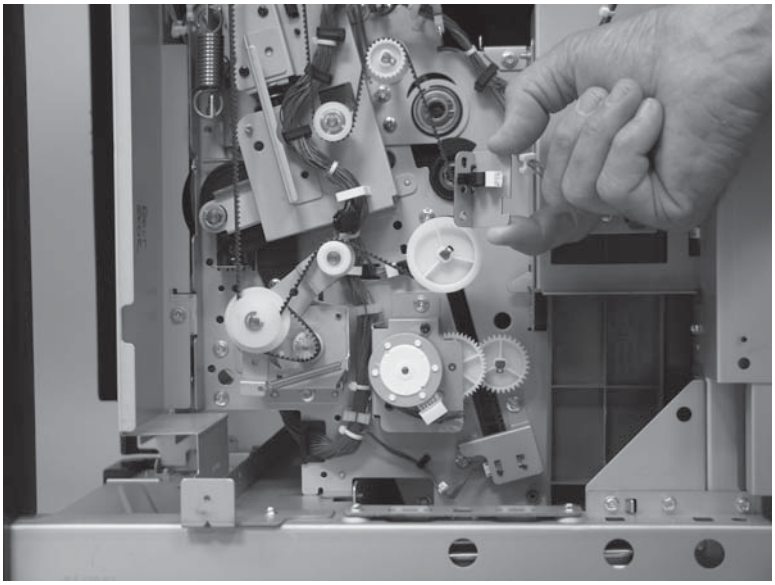
3. Remove one screw.

Figure 1-936 Remove the guide sensor assembly (3 of 4)



4. Remove the assembly.

Figure 1-937 Remove the guide sensor assembly (4 of 4)



Guide motor assembly

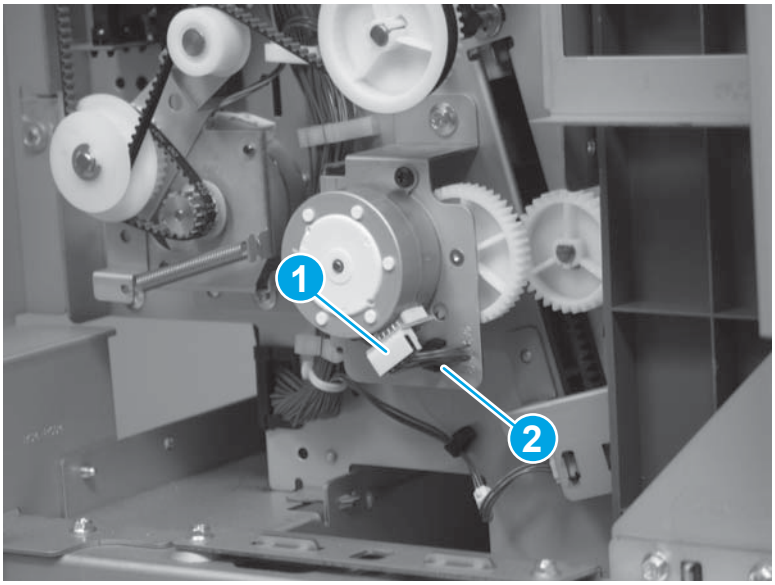
Before proceeding, remove the following assemblies:

- Bin cable guide cover. See Bin cable guide cover on page 492.
- Rear cover assembly. See Rear cover assembly on page 496.

Remove the guide motor assembly

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

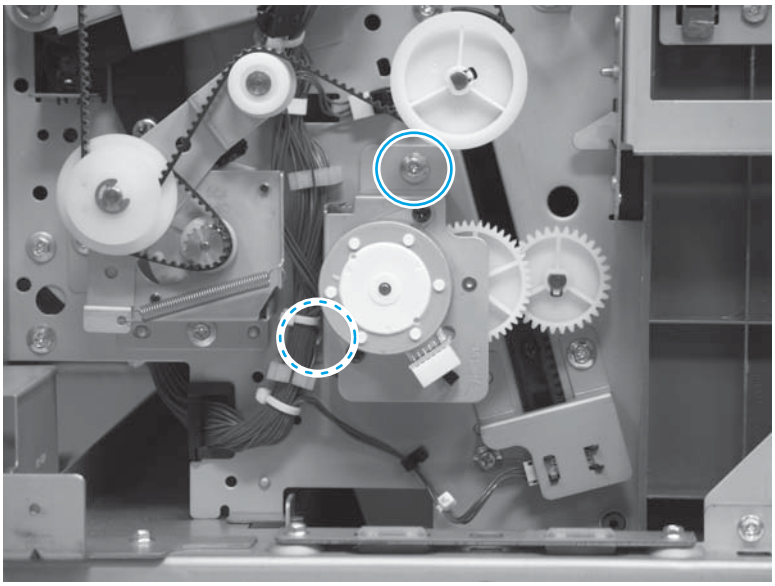
Figure 1-938 Remove the guide motor assembly (1 of 3)



2. Remove two screws.

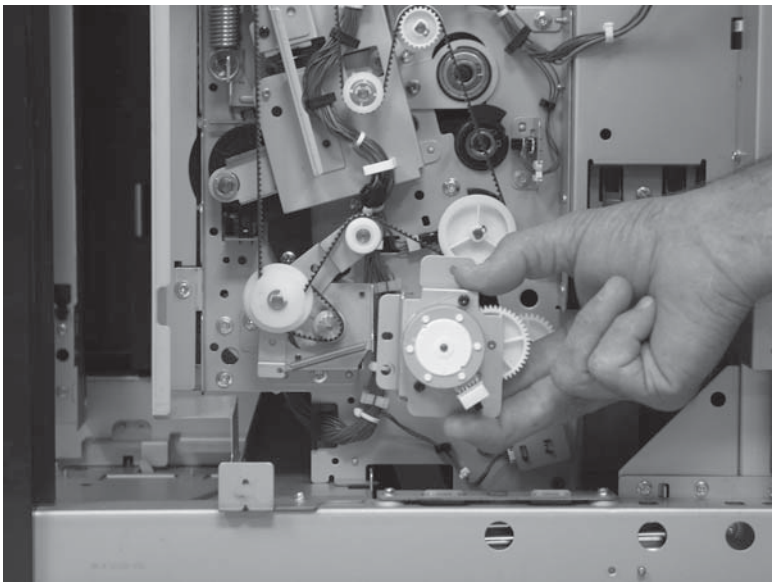
TIP: One screw is hidden behind the wire harnesses along the left side of the sheet-metal mounting bracket. Use a small flat-blade screwdriver to hold the wire harnesses out of the way to access this screw.

Figure 1-939 Remove the guide motor assembly (2 of 3)



3. Remove the assembly.

Figure 1-940 Remove the guide motor assembly (3 of 3)



Saddle motor assembly (SS and BM)

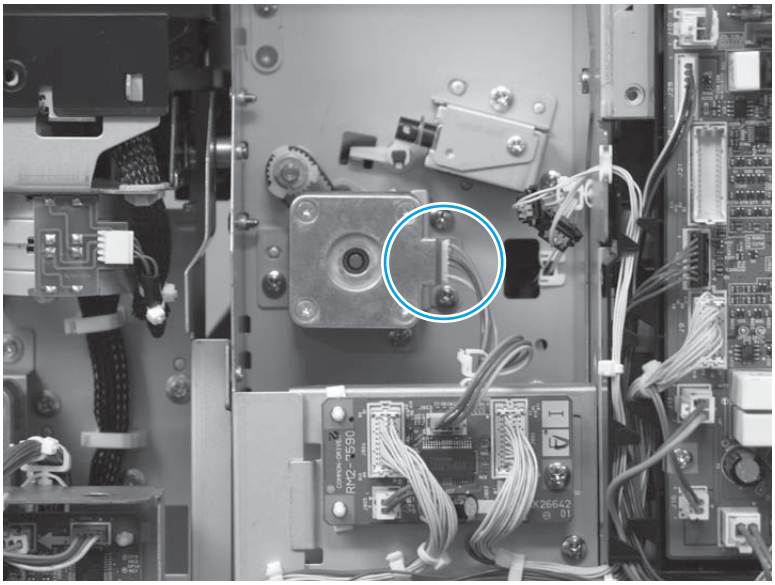
Before proceeding, remove the following assemblies:

- Bin cable guide cover. See Bin cable guide cover on page 492.
- Rear cover assembly. See Rear cover assembly on page 496.

Remove the saddle motor assembly (SS and BM)

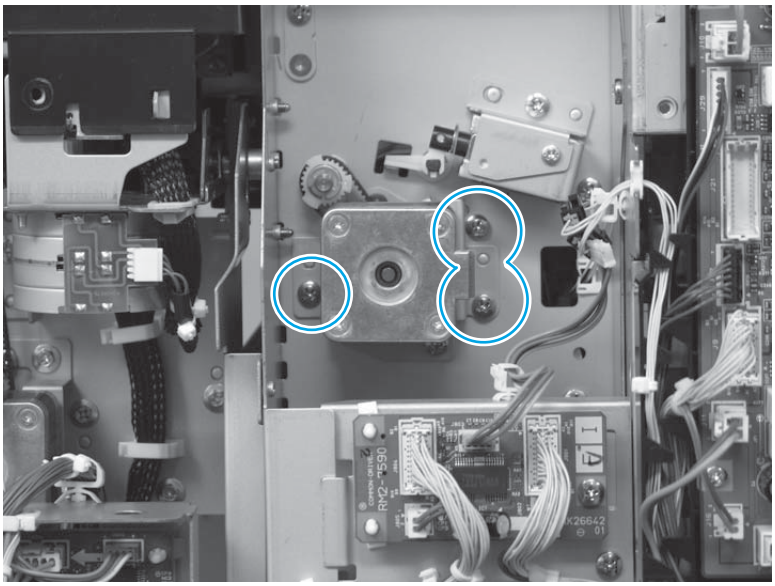
1. Disconnect one connector.

   Figure 1-941 Remove the saddle motor assembly (SS and BM; 1 of 3)

2. Remove three screws.

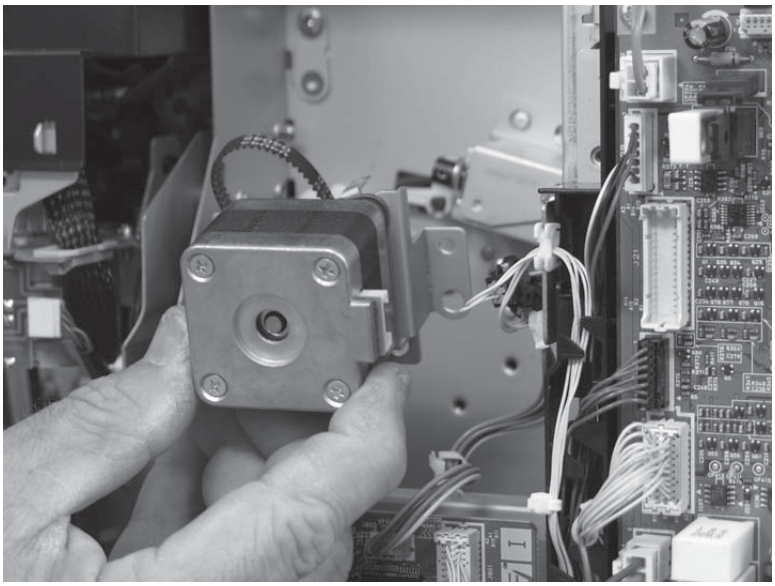
   Figure 1-942 Remove the saddle motor assembly (SS and BM; 2 of 3)

3. Remove the motor.

⚠ **CAUTION:** The drive belt behind the motor is not captive. Do not lose the belt when the motor is removed.

Figure 1-943 Remove the saddle motor assembly (SS and BM; 3 of 3)



Saddle feed motor assembly

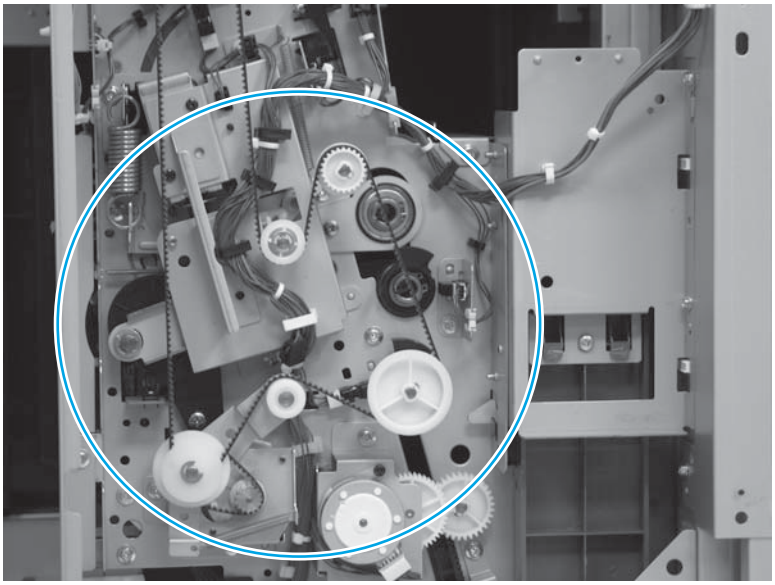
Before proceeding, remove the following assemblies:

- Bin cable guide cover. See Bin cable guide cover on page 492.
- Rear cover assembly. See Rear cover assembly on page 496.

Remove the saddle feed assembly

1. Before beginning, note how the drive belt is routed over the gears and-tension arm. The belt will not be tensioned correctly if the belt is not routed properly when the assembly is reinstalled.

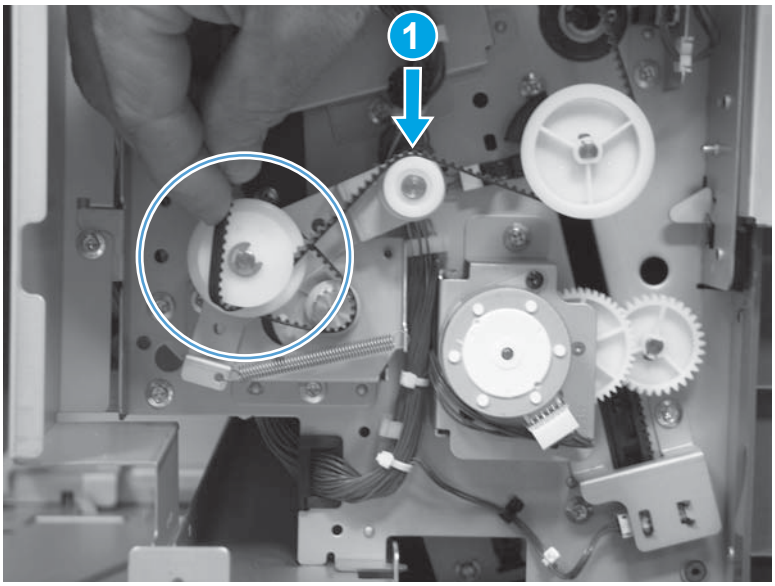
Figure 1-944 Remove the saddle feed motor assembly (1 of 6)



2. Push down on the belt tension arm (callout 1), and then remove the timing belt from the motor drive gear.

IMPORTANT: Note how the belt is routed over the gears and belt-tension arm before you disengage the belt.

Figure 1-945 Remove the saddle feed motor assembly (2 of 6)

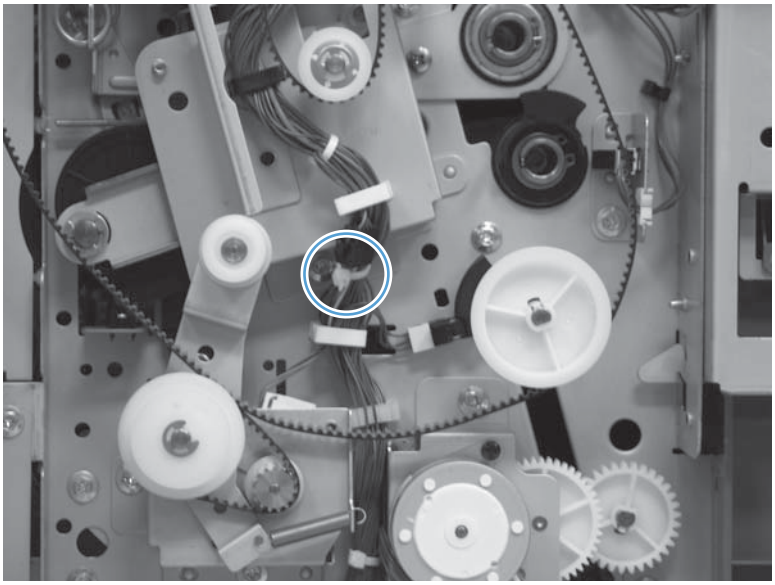


3. Remove one plastic wire cable tie.

CAUTION: Do not damage the wire harnesses when this cable tie is removed.

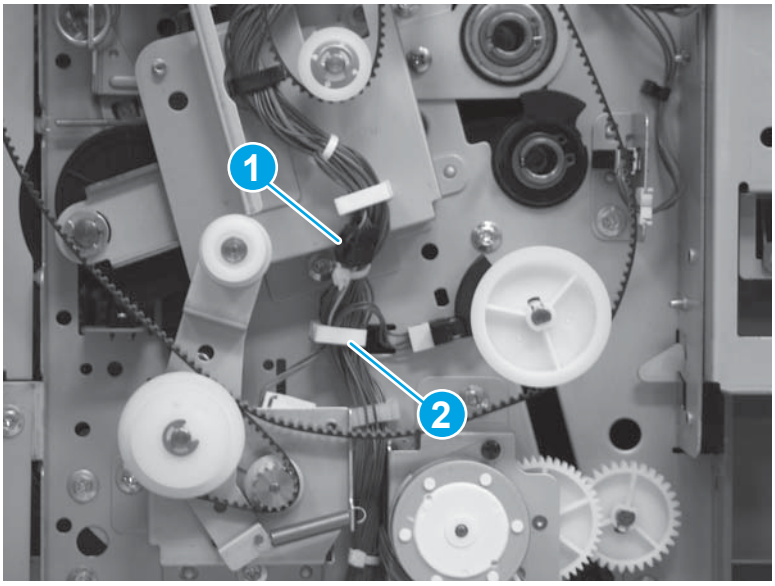
Do not attempt to remove the connector at the motor end of the wire harness. This wire harness is soldered to the motor and cannot be removed.

Figure 1-946 Remove the saddle feed motor assembly (3 of 6)



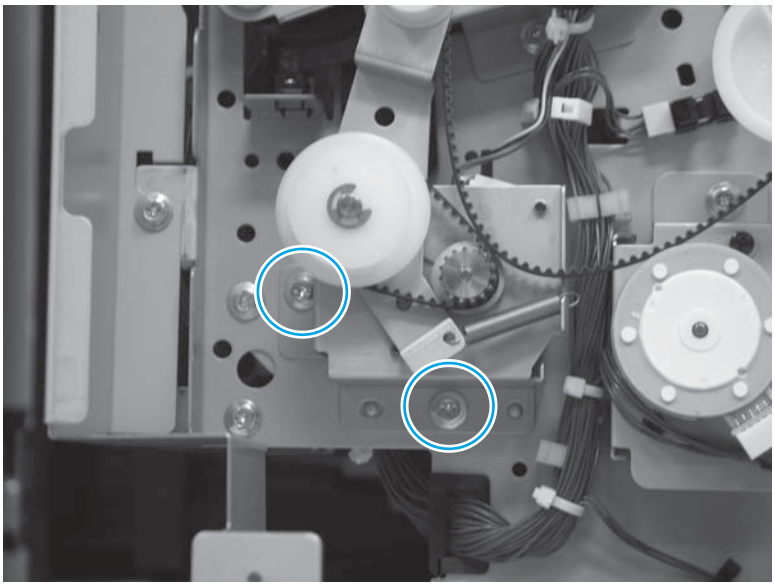
4. Disconnect one inline connector (callout 1), and then release the wire harness from one retainer (callout 2).

Figure 1-947 Remove the saddle feed motor assembly (4 of 6)



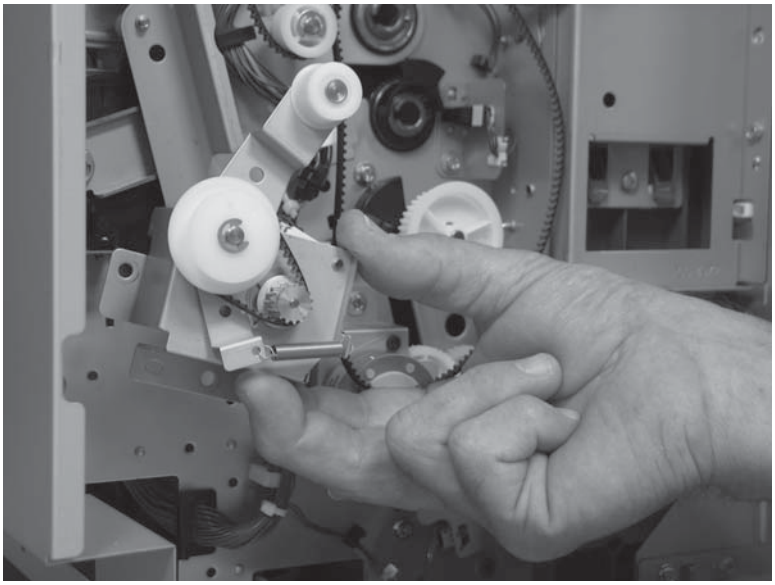
5. Remove two screws.

Figure 1-948 Remove the saddle feed motor assembly (5 of 6)



6. Remove the assembly.

Figure 1-949 Remove the saddle feed motor assembly (6 of 6)



Folding-motor mount assembly

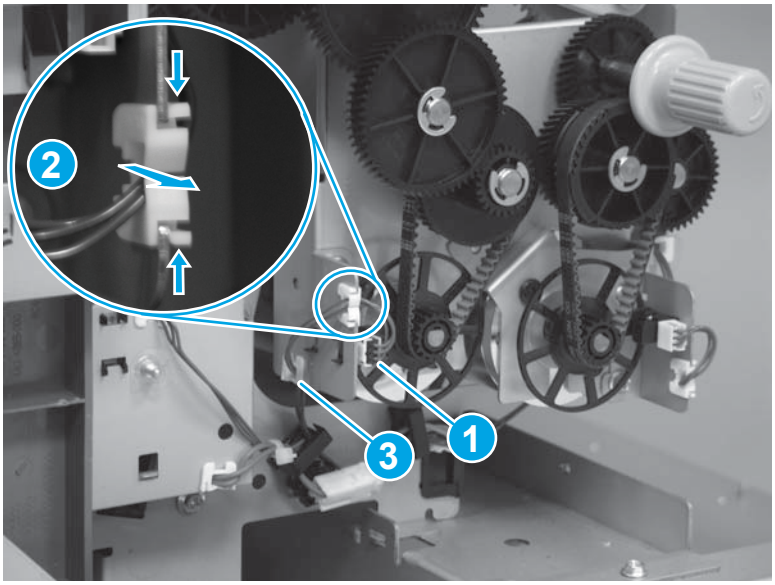
Before proceeding, remove the following assemblies:

- Latch lower covers (front and rear). See Latch lower covers (front and rear) on page 468.
- Latch assembly. See Latch assembly on page 470.
- Move the inner lower cover assembly out of the way. See Inner upper cover assembly on page 480.
- Right cover assembly (BM PCA). See Right cover assembly (BM PCA) on page 611.
- For all models with a hole punch assembly installed:
  - Punch lower front cover assembly. See Punch lower front cover assembly on page 684.
  - Punch rear cover assembly. See Punch rear cover assembly on page 686.

Remove the folding-motor mount assembly

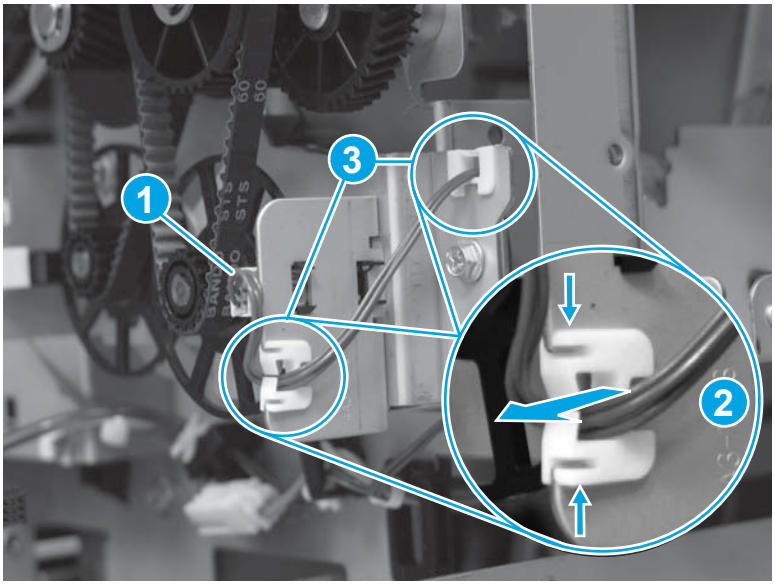
1. Disconnect one connector (callout 1), release two tabs on one retainer (callout 2), remove the retainer from the sheet-metal bracket, and then release the wire harness from one retainer (callout 3).

Figure 1-950 Remove the folding-motor mount assembly (1 of 6)



2. Disconnect one connector (callout 1), release two tabs (one on each side; callout 2) of two retainers (callout 3), and then remove the retainers from the sheet-metal bracket.

Figure 1-951 Remove the folding-motor mount assembly (2 of 6)

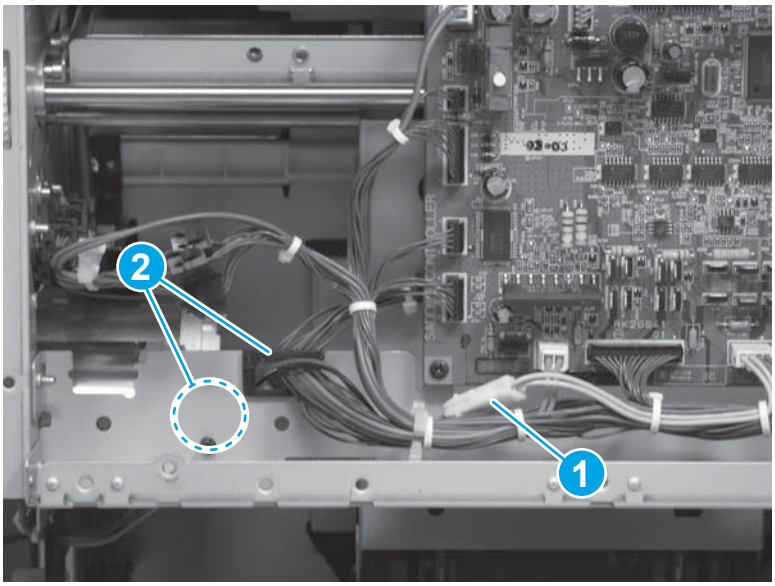


3. Disconnect one inline connector (callout 1), and then release the wire harness from two retainers (callout 2).

TIP: One of the retainers is on the back side of the sheet-metal support bracket. Use a long-barrel flat-blade screwdriver to release a tab on the retainer to open it

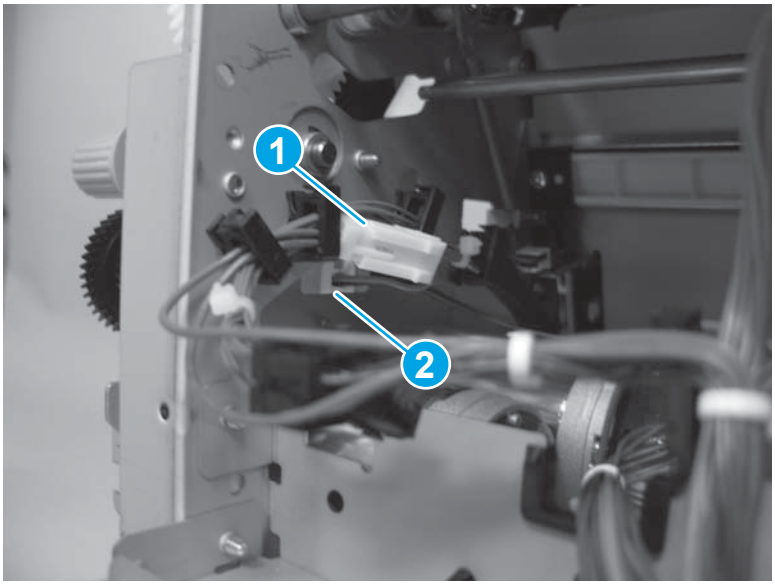
When the assembly is reinstalled, you might have to disconnect connectors on the controller PCA, or release wire harnesses from other retainers in order to gain enough slack in the wire harnesses to close the retainer latch.

Figure 1-952 Remove the folding-motor mount assembly (3 of 6)



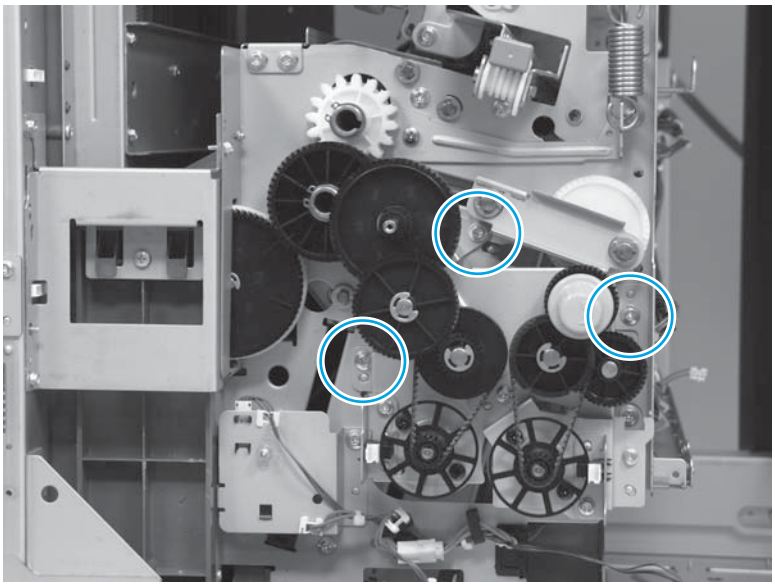
4. Disconnect one inline connector (callout 1), and then release the wire harness from one retainer (callout 2).

Figure 1-953 Remove the folding-motor mount assembly (4 of 6)



5. Remove three screws.

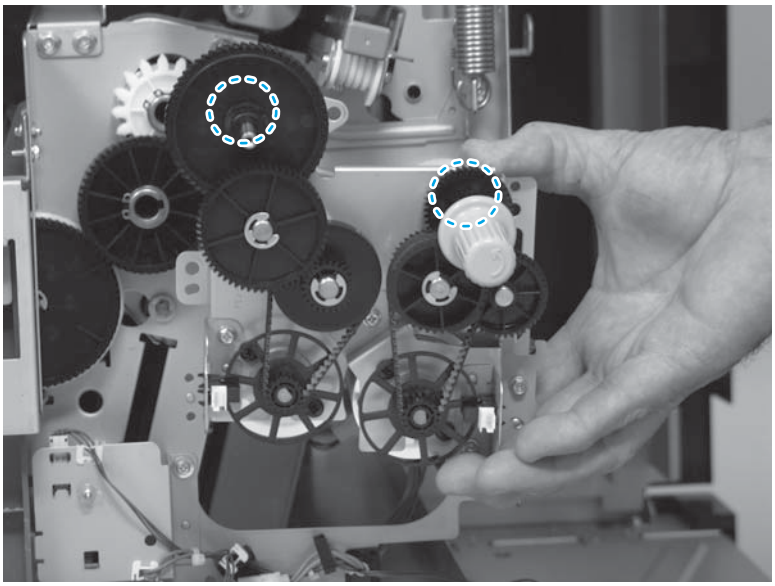
Figure 1-954 Remove the folding-motor mount assembly (5 of 6)



6. Remove the assembly.

⚠ **CAUTION:** There are two keyed bushings on the gear shafts that fit into holes on the chassis (see Reinstall the folding-motor mount assembly on page 637). The bushings are not captive. Do not lose them when the assembly is removed.

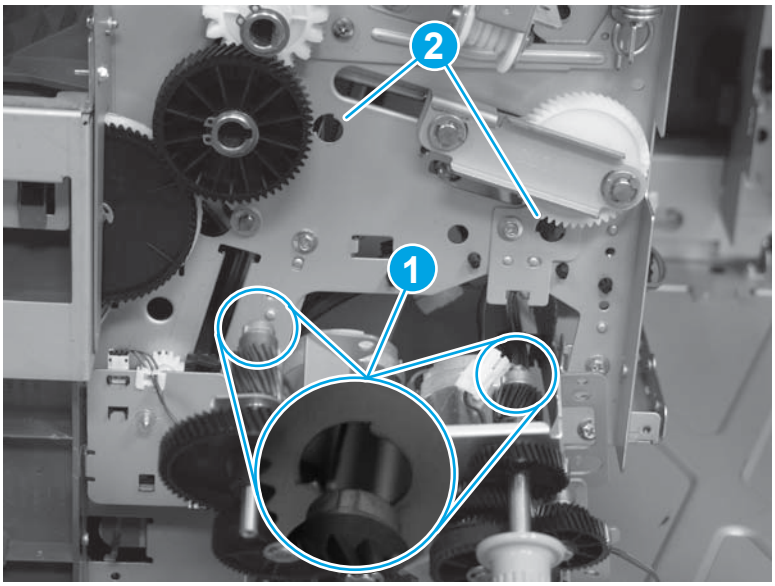
Figure 1-955 Remove the folding-motor mount assembly (6 of 6)



Reinstall the folding-motor mount assembly

Make sure that the two brass bushings (callout 1) are installed on the gear shafts, and that the keyed portion of the bushings are aligned with the associated large slots in the chassis mounting holes (callout 2). The sheet-metal mounting bracket must be tight up against the chassis before you install the mounting screws.

Figure 1-956 Reinstall the folding-motor mount assembly



Delivery switch mount assembly

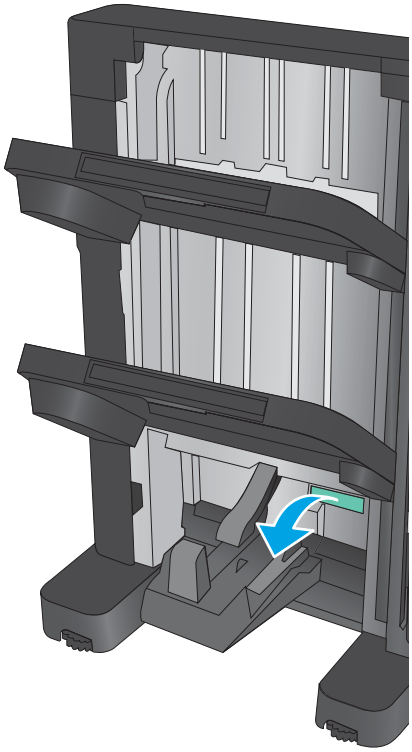
Before proceeding, do the following:

- Move the inner upper cover assembly out of the way. See Inner upper cover assembly on page 480.
- Move the inner lower cover assembly out of the way. See Inner lower cover assembly on page 486.

Remove the delivery switch mount assembly

1. Open the lower booklet jam access door.

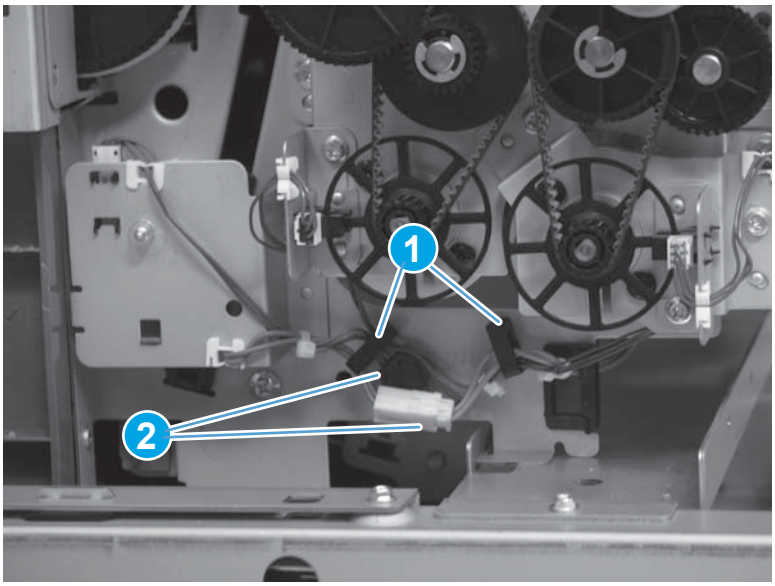
Figure 1-957 Remove the delivery switch mount assembly (1 of 4)



2. Release the wire harnesses from two retainers (callout 1), and then disconnect two inline connectors (callout 2).

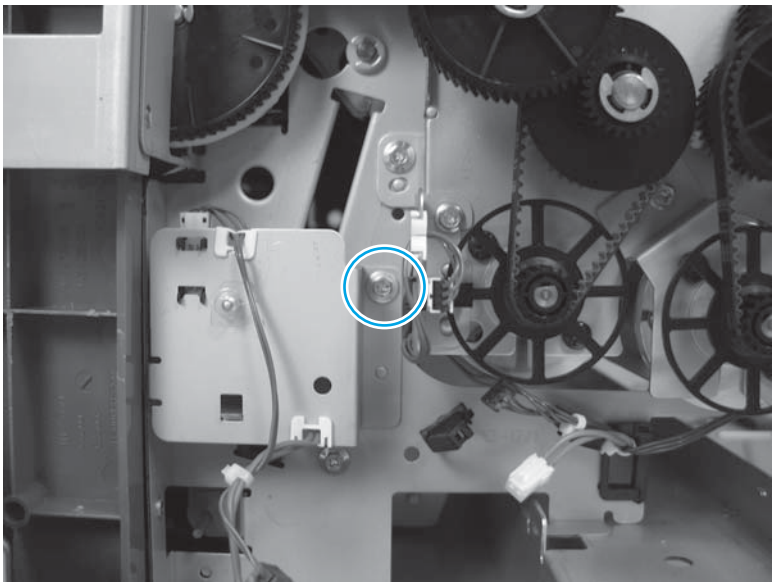
TIP: Releasing the wire harnesses from the retainers first makes it easier to disconnect the connectors.

Figure 1-958 Remove the delivery switch mount assembly (2 of 4)



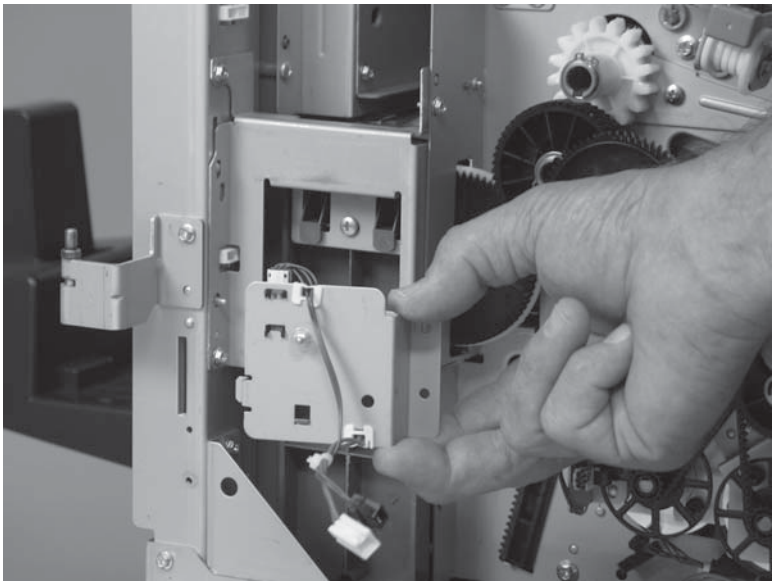
3. Remove one screw.

Figure 1-959 Remove the delivery switch mount assembly (4 of 4)



4. Remove the assembly.

Figure 1-960 Remove the delivery switch mount assembly (4 of 4)



Saddle stapler assembly

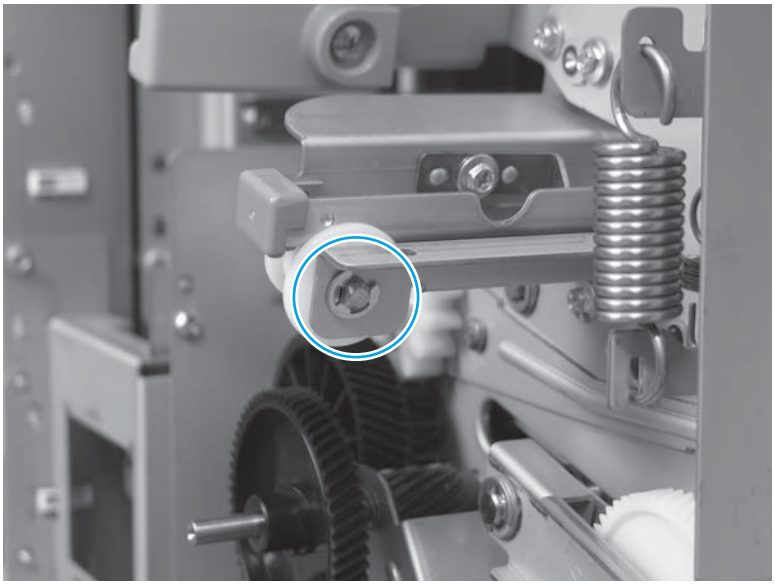
Before proceeding, do the following:

- Move the inner upper cover assembly out of the way. See Inner upper cover assembly on page 480.
- Move the inner lower cover assembly out of the way. See Inner lower cover assembly on page 486.

Remove the saddle stapler assembly

1. Remove one e-ring.

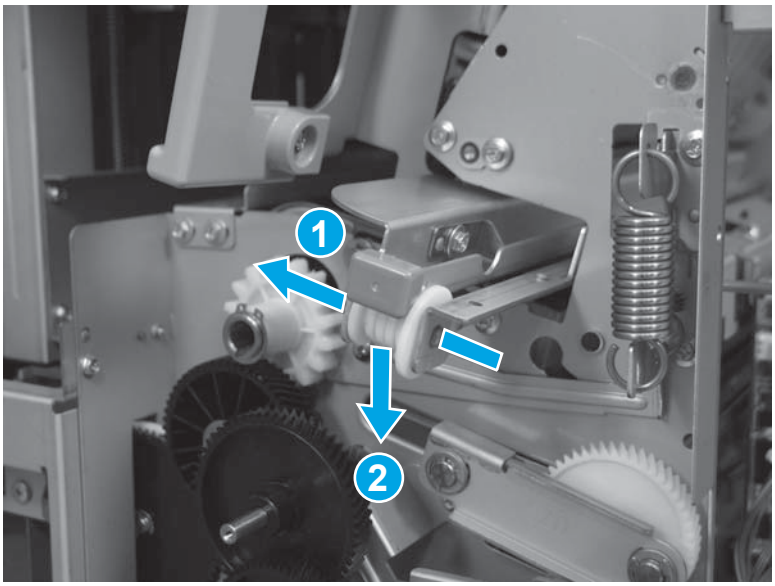
Figure 1-961 Remove the saddle stapler assembly (1 of 3)



2. Remove one shaft (callout 1), and then remove the white plastic wheel (callout 2).

Reinstallation tip The wheel is asymmetric. The small diameter end of the wheel should face toward the saddle stapler assembly when it is reinstalled.

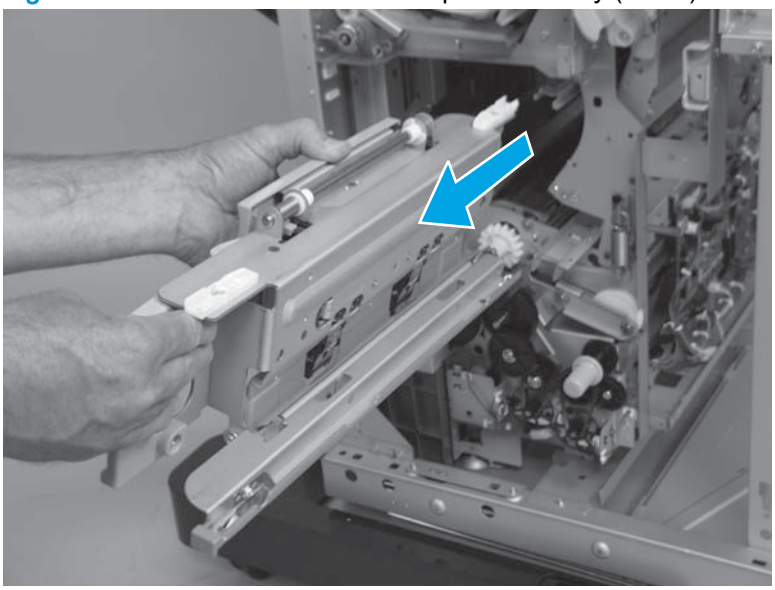
Figure 1-962 Remove the saddle stapler assembly (2 of 3)



3. Pull the assembly straight out of the saddle assembly to remove it.

Reinstallation tip If you are installing a replacement assembly, remove the staple cartridges from the discarded saddle stapler assembly, and then install them in the replacement assembly.

Figure 1-963 Remove the saddle stapler assembly (3 of 3)



Lower left guide assembly

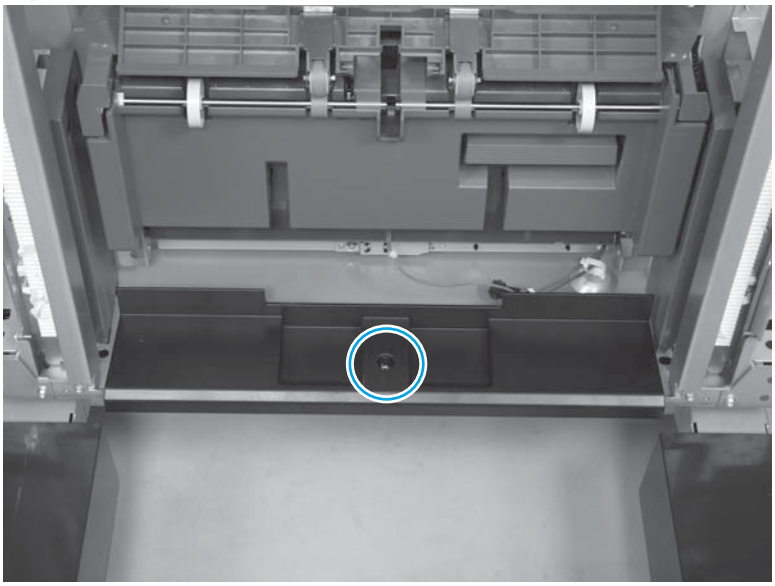
Before proceeding, remove the following assemblies:

- Saddle output bin assembly. See Saddle output bin assembly on page 609.

Remove the lower left guide assembly

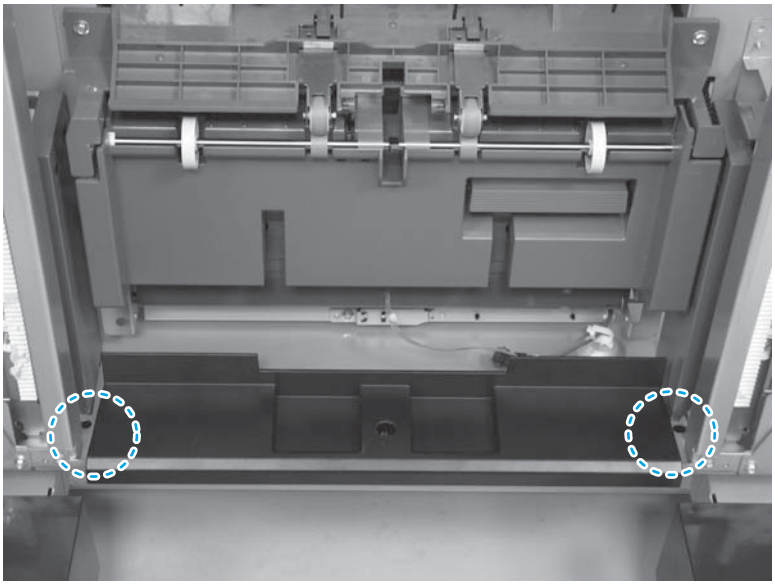
1. Remove one screw.

   Figure 1-964 Remove the lower left guide assembly (1 of 3)

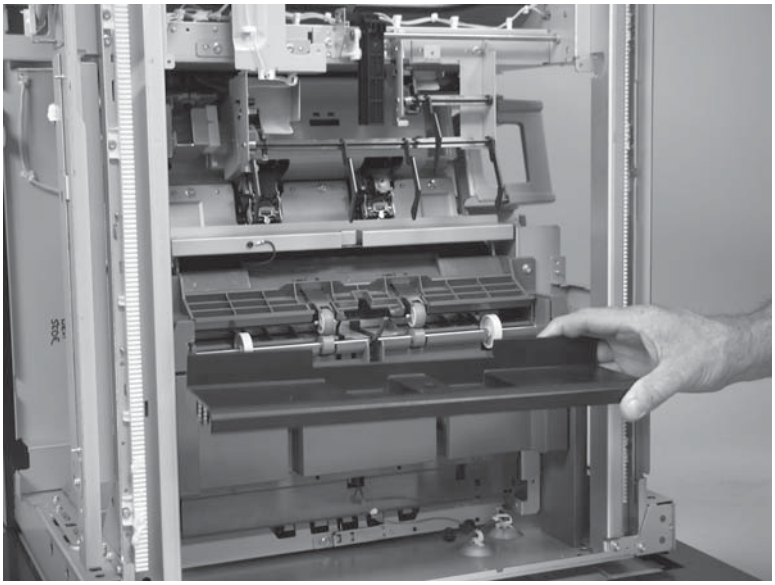
2. Release two tabs, and then remove the cover.

   Figure 1-965 Remove the lower left guide assembly (2 of 3)

3. Remove the cover.

Figure 1-966 Remove the lower left guide assembly (3 of 3)



Saddle delivery inner cover, front assembly

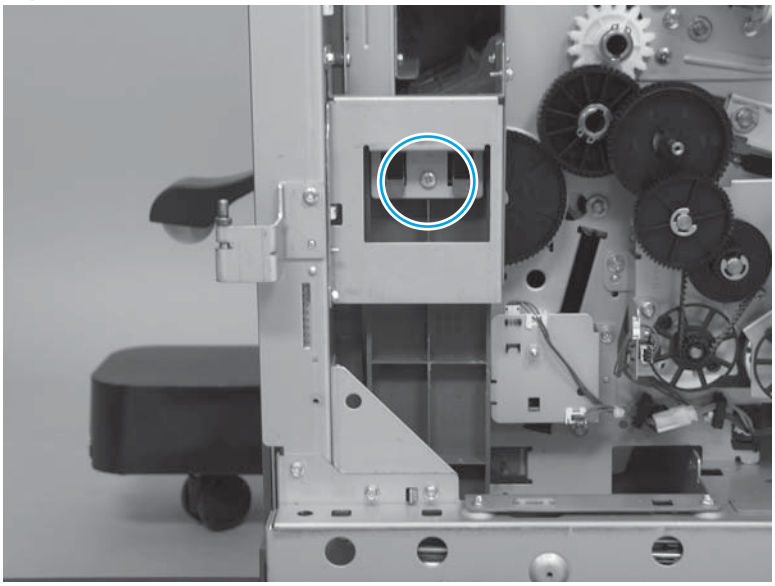
Before proceeding, remove the following assemblies:

- Front door. See Front door on page 479.
- Inner upper cover assembly. See Inner upper cover assembly on page 480.
- Inner lower cover assembly. See Inner lower cover assembly on page 486.

Remove the saddle delivery inner cover, front assembly

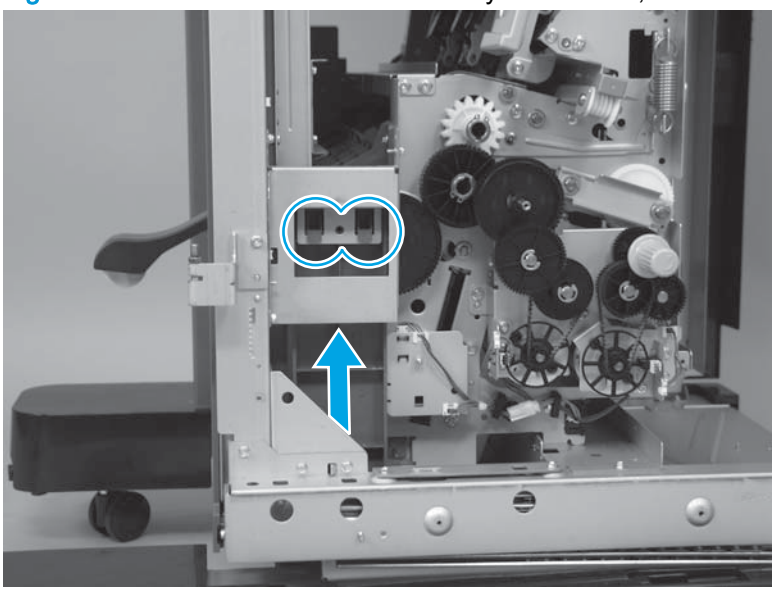
1. Remove one screw.

Figure 1-967 Remove the saddle delivery inner cover, front assembly (1 of 3)



2. Slide the cover up to release two tabs.

Figure 1-968 Remove the saddle delivery inner cover, front assembly (2 of 3)



3. Remove the cover.

Figure 1-969 Remove the saddle delivery inner cover, front assembly (3 of 3)

Saddle delivery inner cover, rear assembly

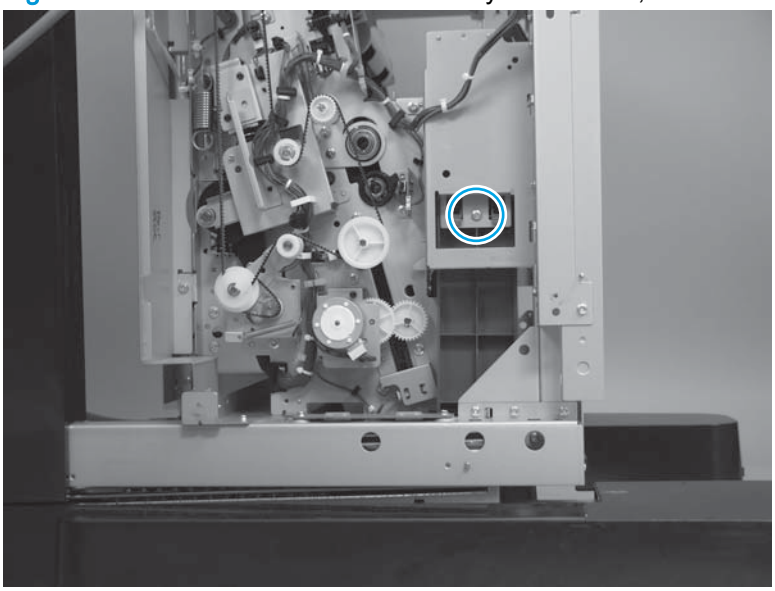
Before proceeding, remove the following assemblies:

- Bin cable guide cover. See Bin cable guide cover on page 492.
- Rear cover assembly. See Rear cover assembly on page 496.

Remove the saddle delivery inner cover, rear assembly

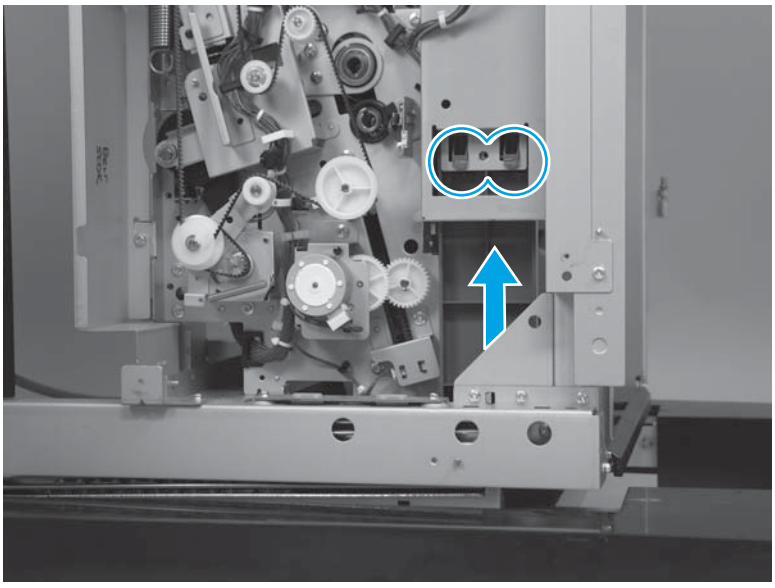
1. Remove one screw.

Figure 1-970 Remove the saddle delivery inner cover, rear assembly (1 of 3)



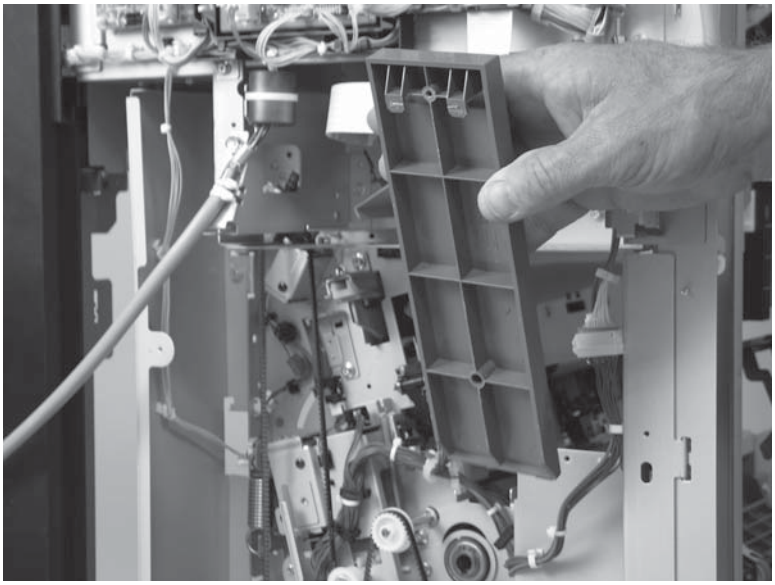
2. Slide the cover up to release two tabs.

Figure 1-971 Remove the saddle delivery inner cover, rear assembly (2 of 3)



3. Remove the cover.

Figure 1-972 Remove the saddle delivery inner cover, rear assembly (3 of 3)



Saddle guide assembly

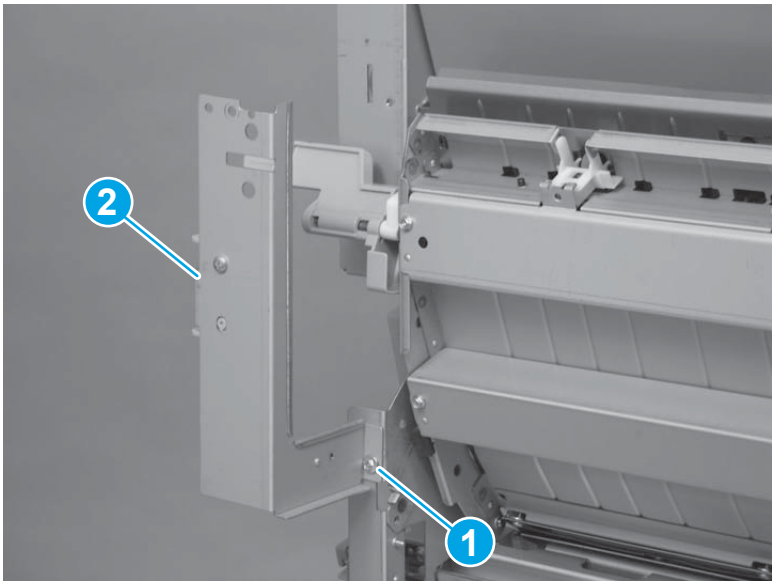
Before proceeding, remove the following assemblies:

- Latch lower covers (front and rear). See Latch lower covers (front and rear) on page 468.
- Latch assembly. See Latch assembly on page 470.
- Front door. See Front door on page 479.
- Inner upper cover assembly. See Inner upper cover assembly on page 480.
- Inner lower cover assembly. See Inner lower cover assembly on page 486.
- Bin cable guide cover. See Bin cable guide cover on page 492.
- Rear cover assembly. See Rear cover assembly on page 496.
- For all models with a hole punch assembly installed:
  - Punch waste tray. See Punch waste tray on page 688.
  - Punch inner cover assembly. See Punch inner cover assembly on page 689.
  - Punch upper cover assembly. See Punch top cover on page 691.
  - Punch hole assembly. See Punch hole assembly on page 694.
- Paper pass assembly. See Paper pass assembly on page 603.
- Right cover assembly (BM PCA). See Right cover assembly (BM PCA) on page 611.

Remove the saddle guide assembly

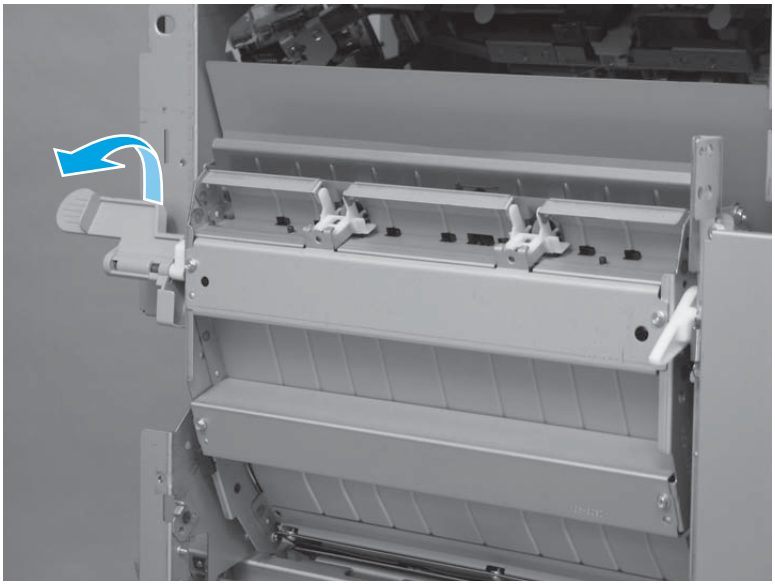
1. Remove one screw (callout 1), and then remove the sheet-metal support bracket (callout 2).

Figure 1-973 Remove the saddle guide assembly (1 of 5)



2. Release the lever, and then open the saddle guide.

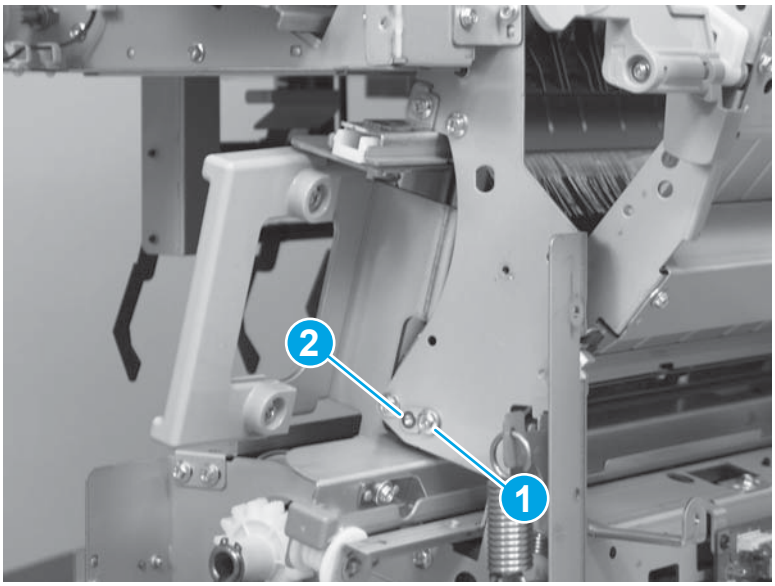
Figure 1-974 Remove the saddle guide assembly (2 of 5)



3. Remove one screw (callout 1), and then remove the hinge pin retainer (callout 2).

TIP: Slightly move the saddle guide assembly back and forth to make removing the hinge pin retainer easier.

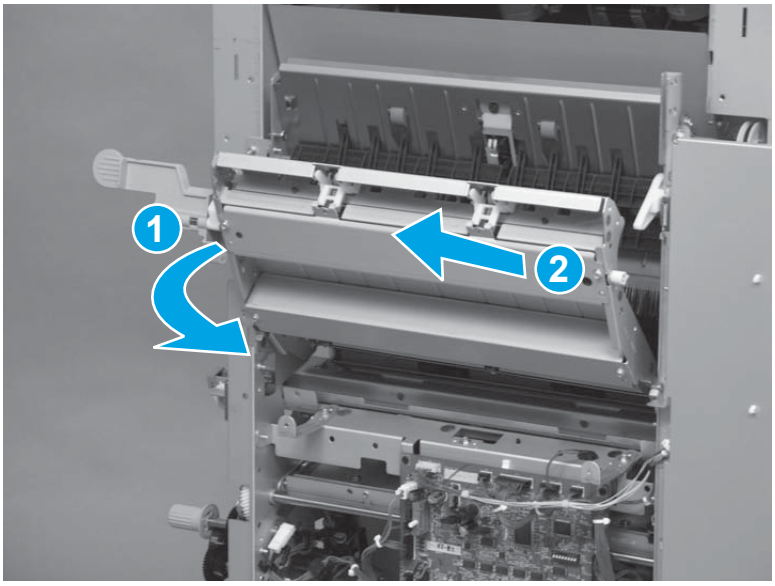
Figure 1-975 Remove the saddle guide assembly (3 of 5)



4. Slightly rotate the left side of the assembly away from the saddle assembly (callout 1), and then slide it to the left (callout 2).

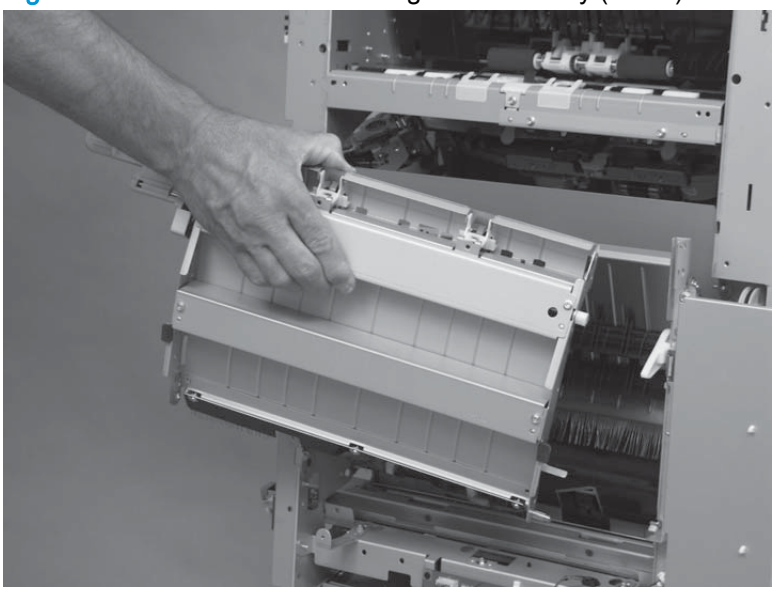
NOTE: There is a pin on the left side of the assembly that must clear the accessory chassis.

Figure 1-976 Remove the saddle guide assembly (4 of 5)



5. Remove the assembly.

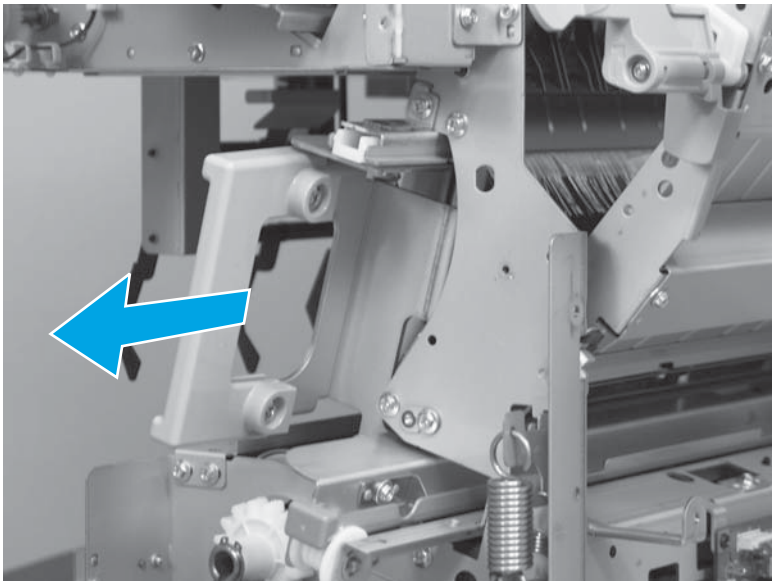
Figure 1-977 Remove the saddle guide assembly (5 of 5)



Reinstall the saddle guide assembly

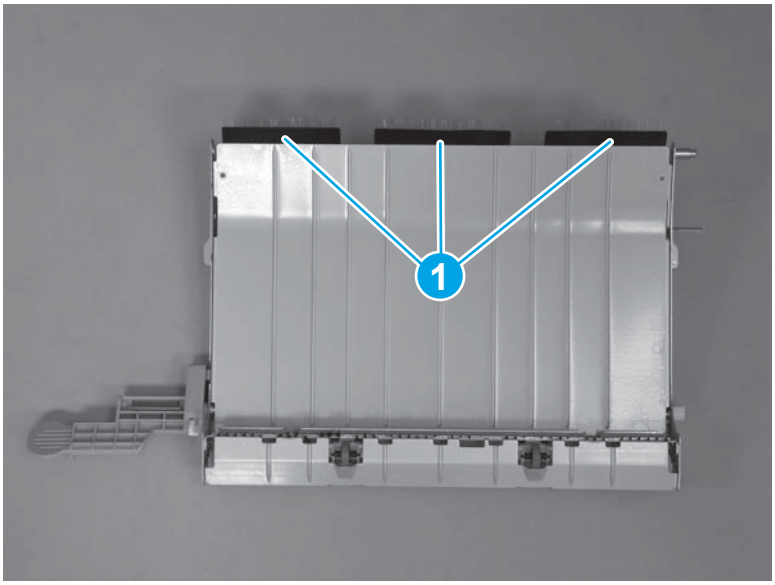
1. Slide the saddle stapler out of the accessory to avoid damage to the mylar strips on the saddle guide assembly when it is reinstalled.

Figure 1-978 Reinstall the saddle guide assembly (1 of 4)



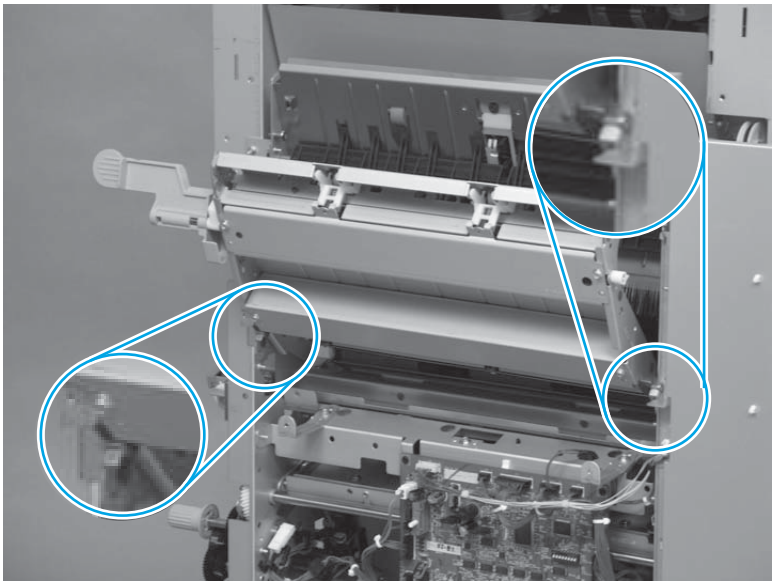
2. When you reinstall the assembly, do not damage the mylar strips (callout 1) on the assembly.

Figure 1-979 Reinstall the saddle guide assembly (2 of 4)



3. Make sure the shaft-end edge of the assembly, and the hinge-pin edge of the assembly, are behind the sheet-metal stoppers on the chassis.

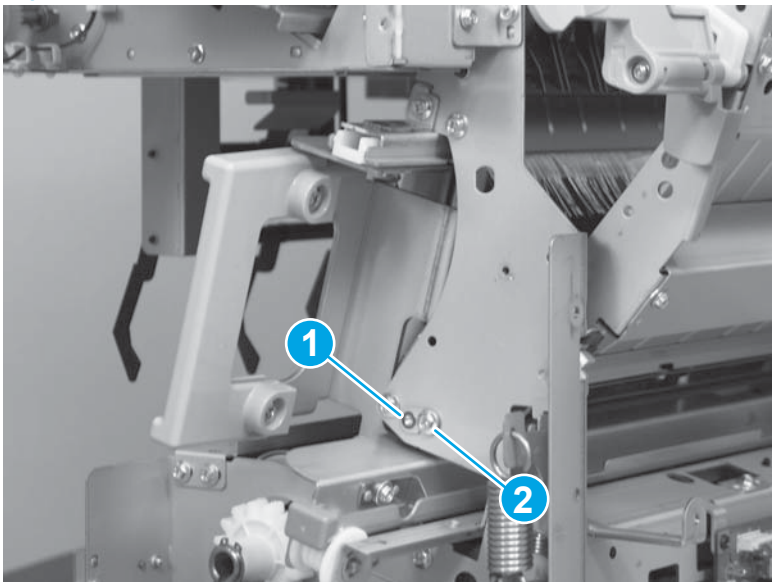
Figure 1-980 Reinstall the saddle guide assembly (3 of 4)



4. Install the hinge pin retainer (callout 1), and then install one screw (callout 2) to secure the assembly.

TIP: Slightly move the saddle guide assembly back and forth to make installing the hinge pin retainer easier.

Figure 1-981 Reinstall the saddle guide assembly (4 of 4)



Saddle feed assembly

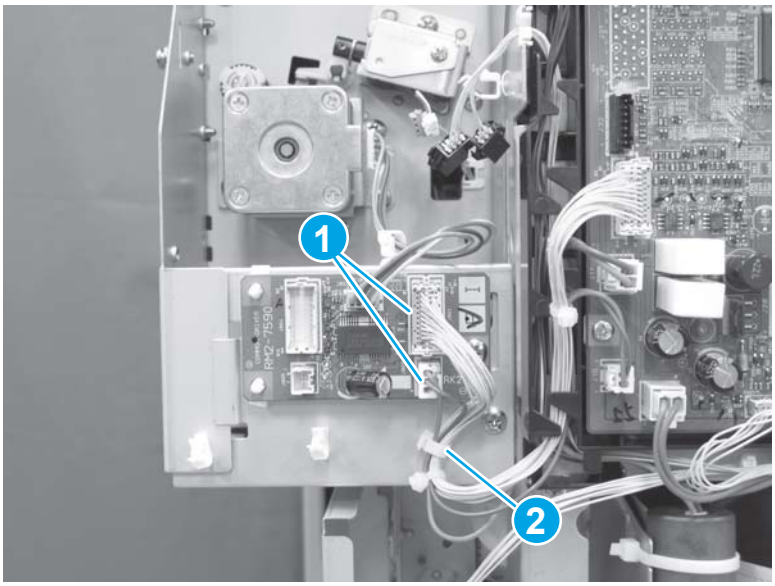
Before proceeding, remove the following assemblies:

- Latch lower covers (front and rear). See Latch lower covers (front and rear) on page 468.
- Move the inner upper cover assembly out of the way. See Inner upper cover assembly on page 480.
- Latch assembly. See Latch assembly on page 470.
- Bin cable guide cover. See Bin cable guide cover on page 492.
- Rear cover assembly. See Rear cover assembly on page 496.
- For all models with a hole punch assembly installed:
  - Punch waste tray. See Punch waste tray on page 688.
  - Punch inner cover assembly. See Punch inner cover assembly on page 689.
  - Punch upper cover assembly. See Punch top cover on page 691.
  - Punch hole assembly. See Punch hole assembly on page 694.

Remove the saddle feed assembly

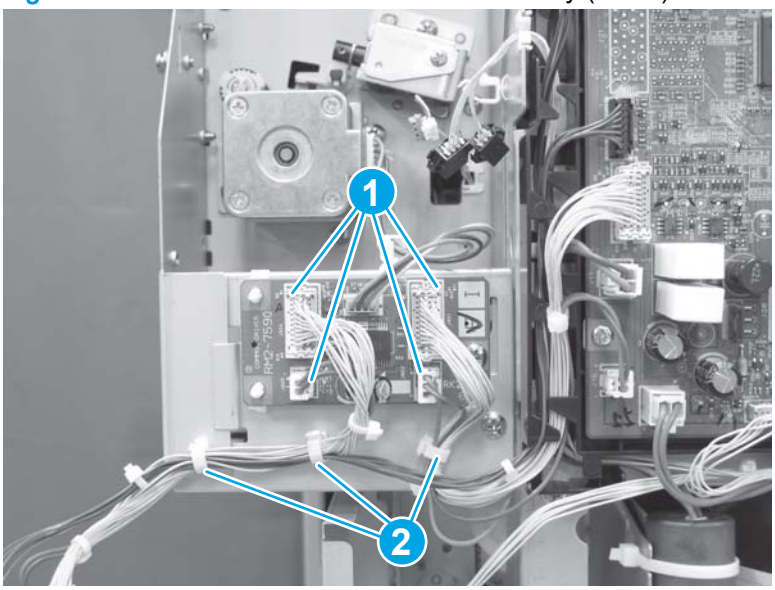
1. Open the top door and front door.
2. **Booklet maker only**: Disconnect two connectors (callout 1), and then release the wire harness from one retainer (callout 2).

Figure 1-982 Remove the saddle feed assembly (1 of 7)



3. **Booklet maker with hole punch only**: Disconnect four connectors (callout 1), and then release the wire harness from three retainers (callout 2).

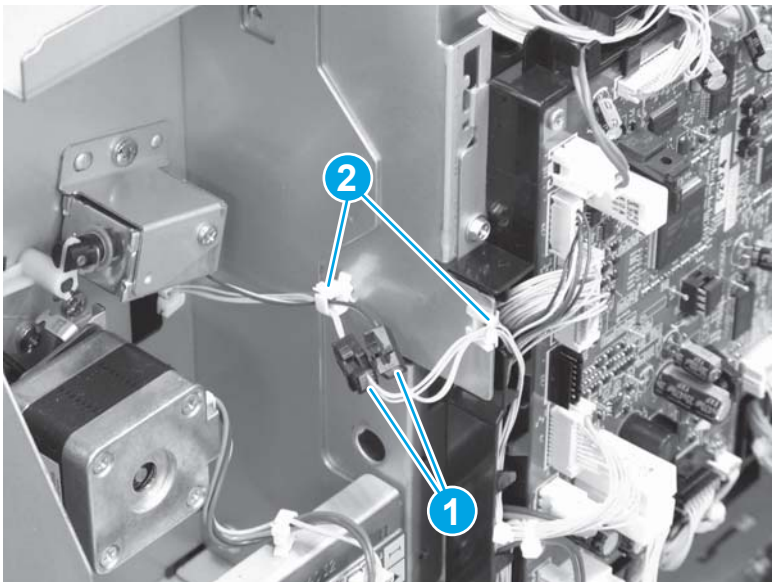
Figure 1-983 Remove the saddle feed assembly (2 of 7)



4. Disconnect two connectors (callout 1), and then release the wire harnesses from two retainers (callout 2).

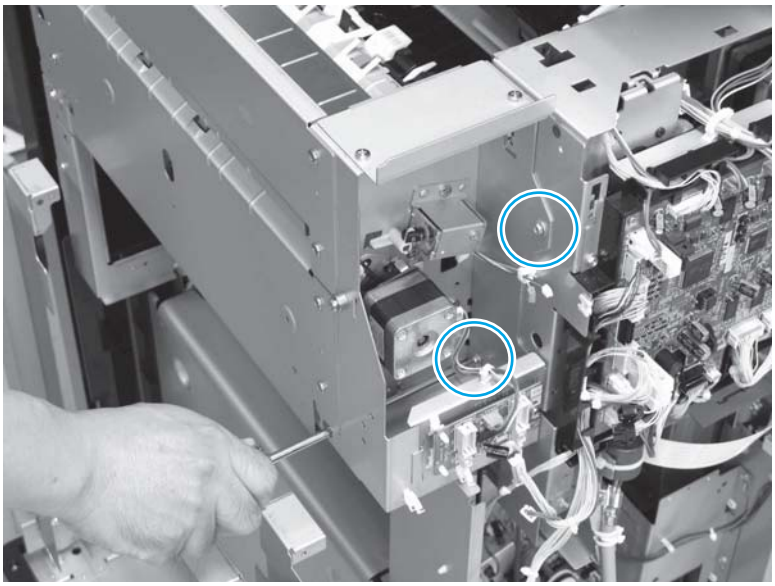
TIP: It is easier to disconnect the connectors if you first release the wire harnesses from the retainers.

Figure 1-984 Remove the saddle feed assembly (3 of 7)



5. Remove two screws.

Figure 1-985 Remove the saddle feed assembly (4 of 7)

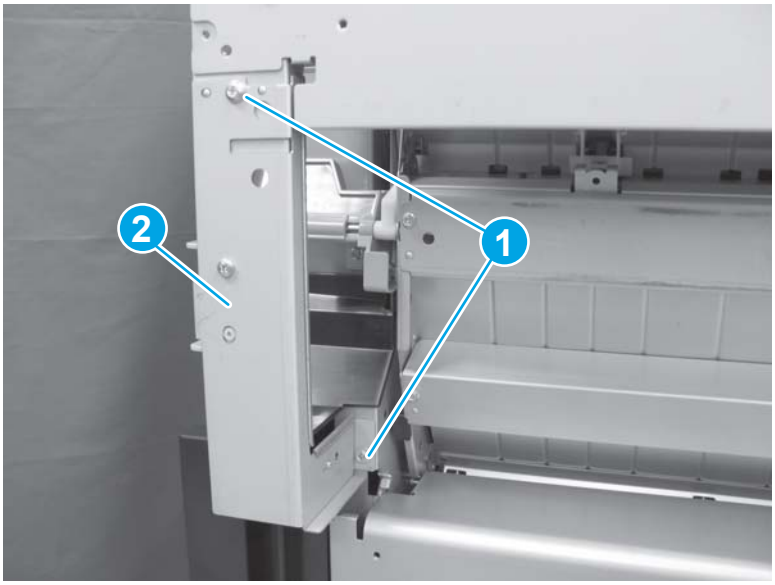


6. Below the saddle feed assembly near the left side of the saddle guide, remove two screws.

Figure 1-986 Remove the saddle feed assembly (5 of 7)

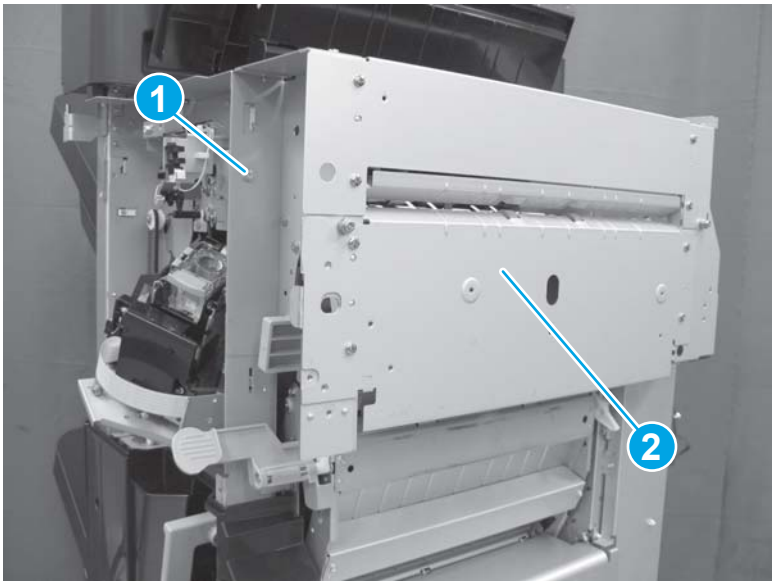
7. Remove two screws (callout 1), and then remove the sheet-metal bracket (callout 2).

Figure 1-987 Remove the saddle feed assembly (6 of 7)



8. Remove one screw (callout 1), grasp the top of the saddle feed assembly (callout 2), and then lift it up to remove it.

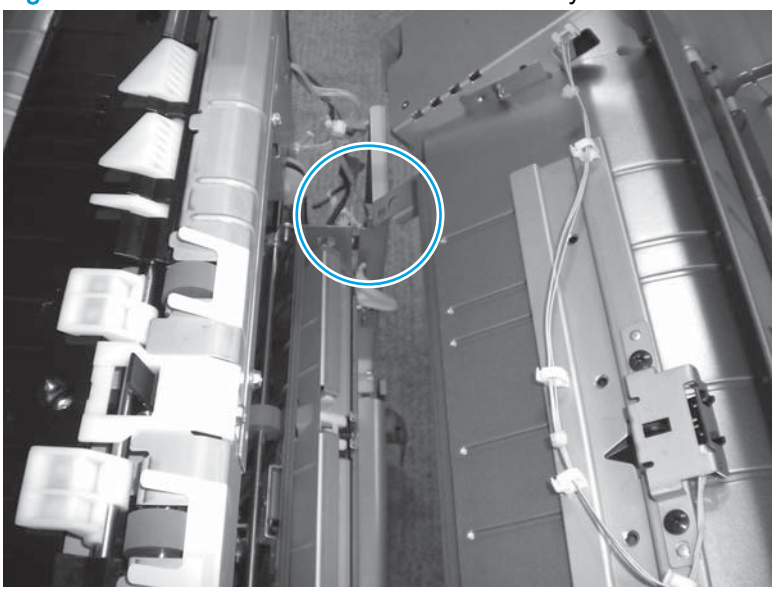
Figure 1-988 Remove the saddle feed assembly (7 of 7)



Reinstall the saddle feed assembly

Make sure that the bottom mounting tab on the saddle feed assembly is on the outside of the chassis —not on the inside—when it is installed.

Figure 1-989 Reinstall the saddle feed assembly



Saddle assembly

NOTE: The saddle assembly is not an orderable service part. This removal procedure is for reference only. HP does not recommend removing the saddle assembly at this time.

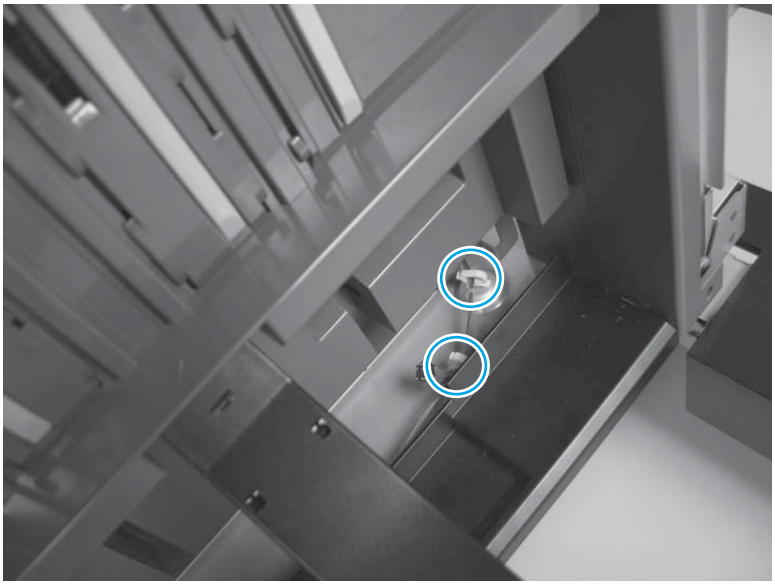
Before proceeding, remove the following assemblies:

- Latch lower covers (front and rear). See Latch lower covers (front and rear) on page 468.
- Latch assembly. See Latch assembly on page 470.
- Open/closed stepped cover assembly. See Open/closed stepped cover assembly on page 471.
- Upper stepped cover assembly. See Upper stepped cover assembly on page 472.
- Lower stepped cover assembly. See Lower stepped cover assembly on page 474.
- Front door. See Front door on page 479.
- Inner upper cover assembly. See Inner upper cover assembly on page 480.
- Inner lower cover assembly. See Inner lower cover assembly on page 486.
- Bin cable guide cover. See Bin cable guide cover on page 492.
- Rear cover assembly. See Rear cover assembly on page 496.
- For all models with a hole punch assembly installed:
  - Punch lower front cover assembly. See Punch lower front cover assembly on page 684.
  - Punch rear cover assembly. See Punch rear cover assembly on page 686.
  - Punch waste tray. See Punch waste tray on page 688.
  - Punch inner cover assembly. See Punch inner cover assembly on page 689.
  - Punch upper cover assembly. See Punch top cover on page 691.
  - Punch hole assembly. See Punch hole assembly on page 694.
- Paper pass assembly. See Paper pass assembly on page 603.
- Saddle output bin assembly. See Saddle output bin assembly on page 609.
- Right cover assembly (BM PCA). See Right cover assembly (BM PCA) on page 611.
- Saddle delivery inner cover, front assembly. See Saddle delivery inner cover, front assembly on page 645.

Remove the saddle assembly

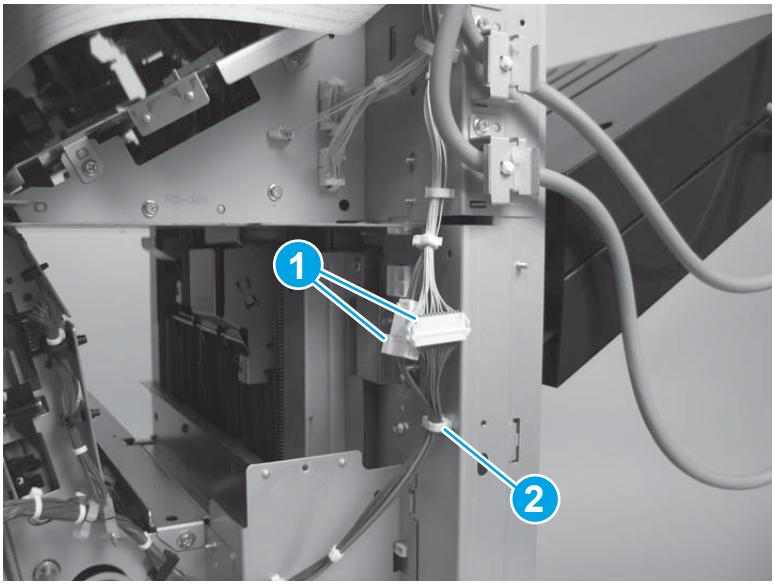
1. Release the wire harnesses from the two retainers.

Figure 1-990 Remove the saddle assembly (1 of 13)



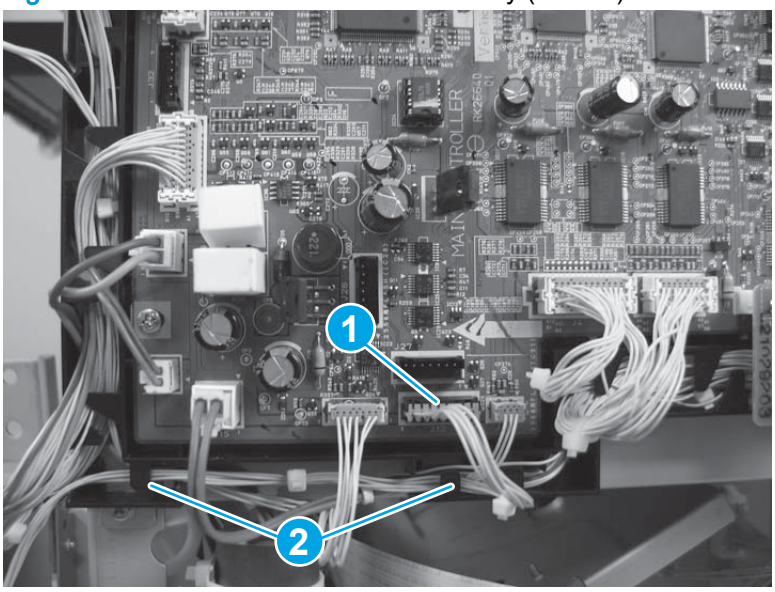
2. Disconnect two in-line connectors (callout 1), and then release the wire harness from one retainer (callout 2).

Figure 1-991 Remove the saddle assembly (2 of 13)



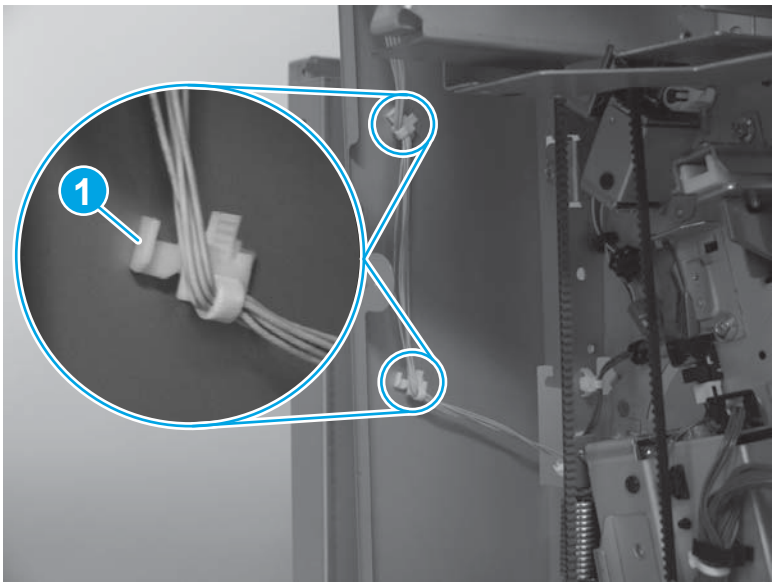
3. Disconnect one connector (callout 1) on the main controller PCA, and then release the wire harness from the guide (callout 2).

Figure 1-992 Remove the saddle assembly (3 of 13)



4. Release one tab (callout 1, one tab on each retainer) on two retainers to release them from the sheet-metal support bracket.

Figure 1-993 Remove the saddle assembly (4 of 13)

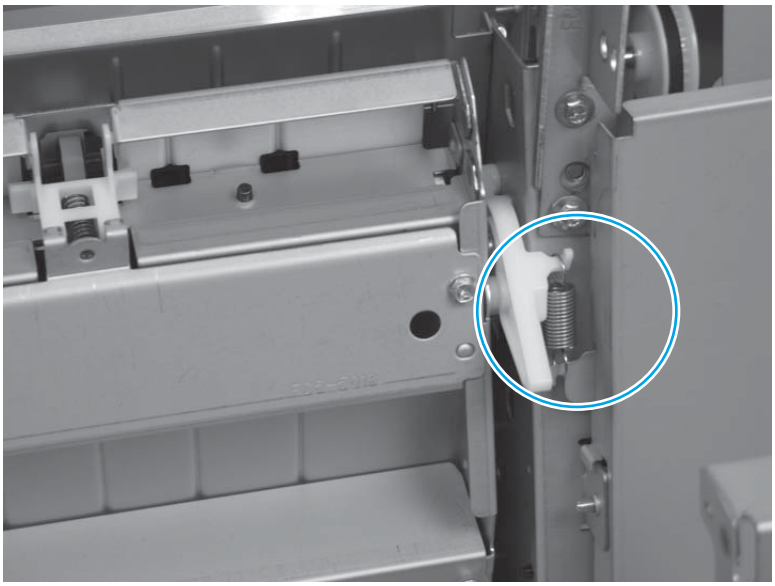


5. Remove one spring on the jam access locking arm. Set the spring aside.

CAUTION: The spring is not captive. Do not lose the spring when releasing it.

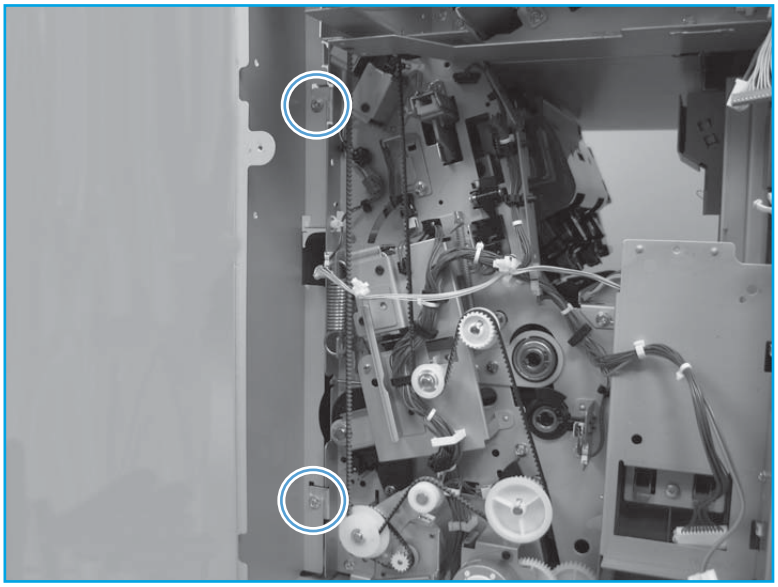
Reinstallation tip Do not forget to reinstall this spring when the assembly is reinstalled, or a replacement assembly is installed.

Figure 1-994 Remove the saddle assembly (5 of 13)



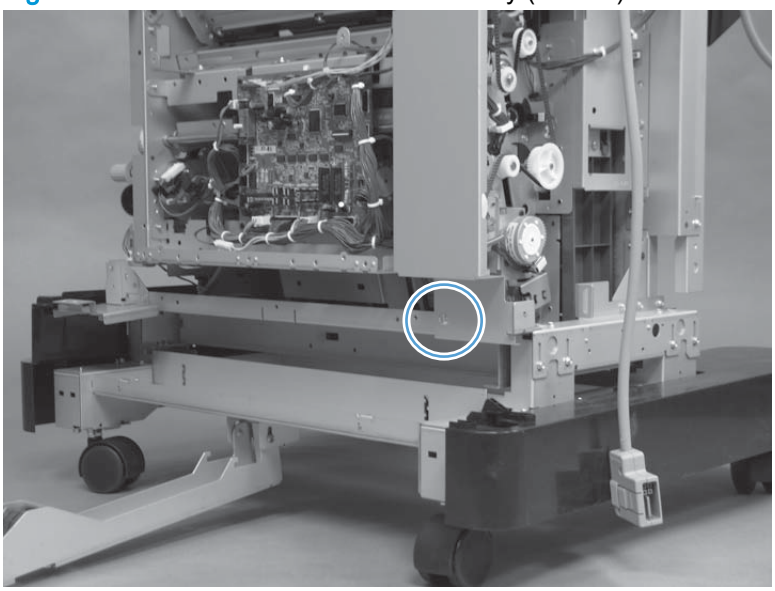
6. Remove two screws.

Figure 1-995 Remove the saddle assembly (6 of 13)



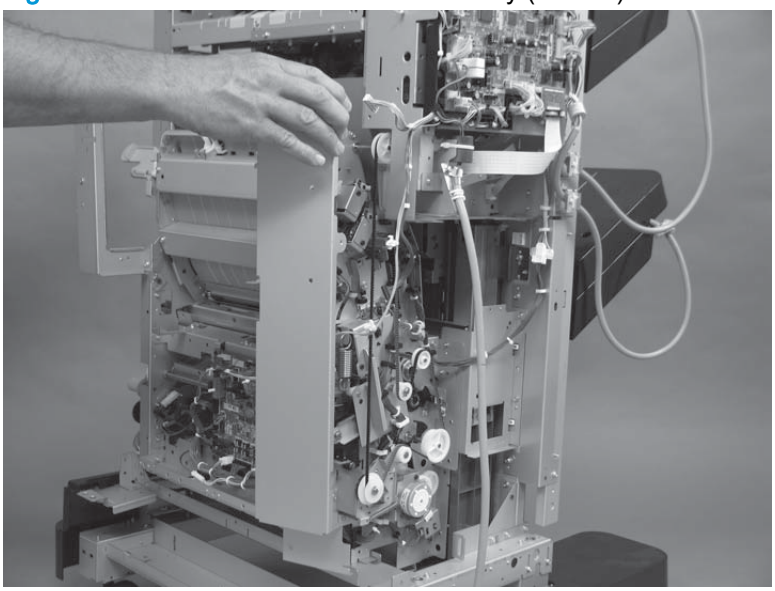
7. Remove one screw.

Figure 1-996 Remove the saddle assembly (7 of 13)



8. Remove the sheet-metal bracket.

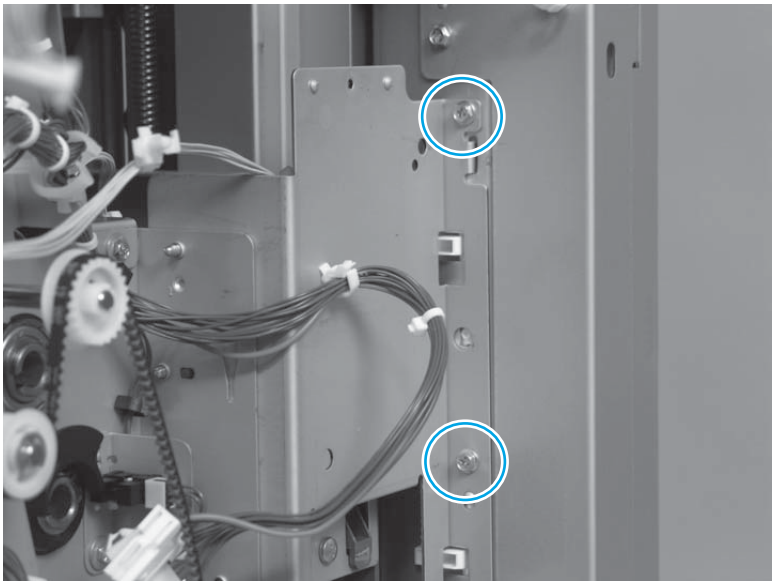
Figure 1-997 Remove the saddle assembly (8 of 13)



9. Remove two screws.

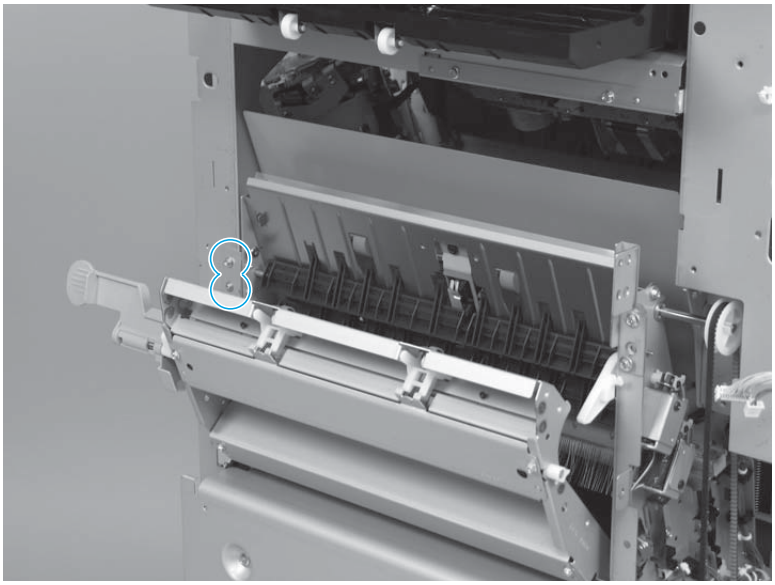
NOTE: These two screws are located on the common controller PCA side of the accessory.

Figure 1-998 Remove the saddle assembly (9 of 13)



10. Open the jam access plate, and then remove two screws.

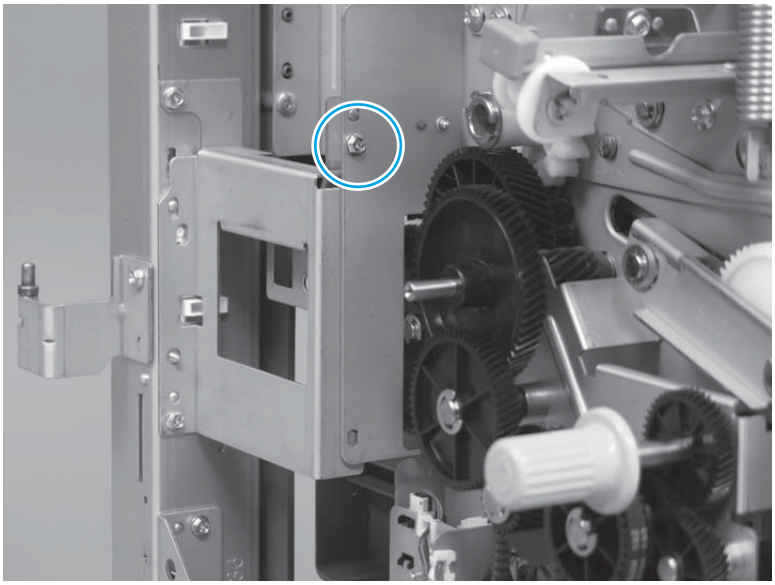
Figure 1-999 Remove the saddle assembly (10 of 13)



11. Remove one screw.

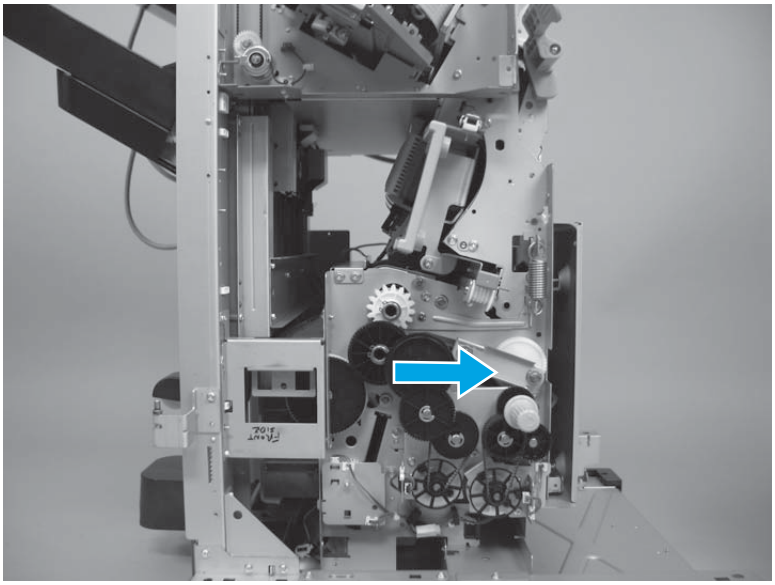
NOTE: This screw is located on the front side of the accessory.

Figure 1-1000 Remove the saddle assembly (11 of 13)



12. Slightly slide the saddle assembly away from the stack bin side of the accessory to release it.

Figure 1-1001 Remove the saddle assembly (12 of 13)

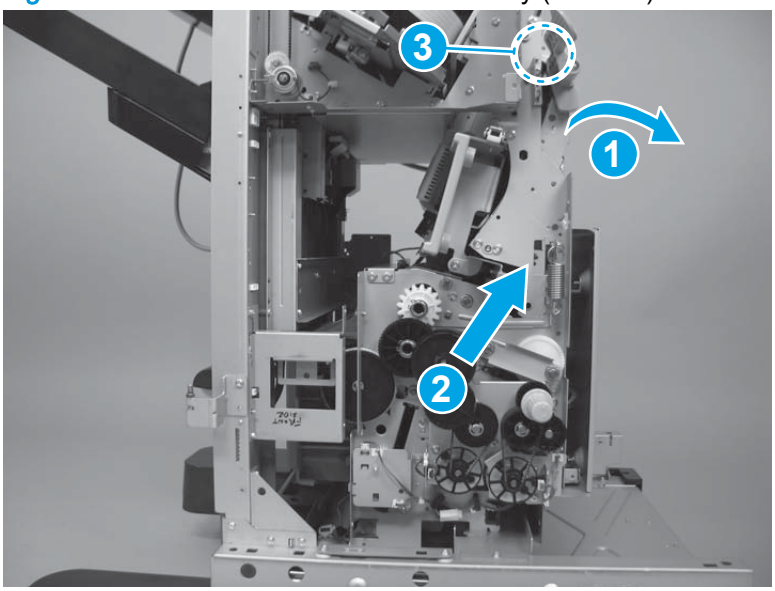


13. Carefully rotate the top of the assembly away from the accessory (callout 1), and then lift the assembly up and out of the accessory (callout 2).

⚠ **CAUTION:** The assembly is heavy.

CAUTION: Do not grasp the assembly along the top edge (callout 3). Doing so can damage the mylar strip along the edge and cause paper jam problems when the assembly is reinstalled.

Figure 1-1002 Remove the saddle assembly (13 of 13)



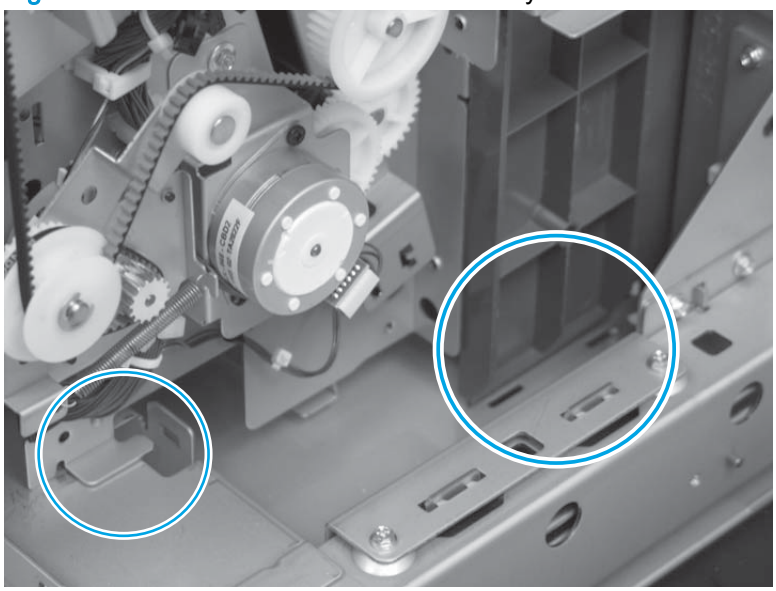
Reinstall the saddle assembly

Make sure that the two hooks on the bottom of the assembly (one shown) are correctly engaged with the chassis, and that the tabs on the rear saddle inner cover are in the slots in the chassis.

IMPORTANT: Make sure that all of the assembly sheet-metal brackets that contact the accessory chassis are flush against the chassis to prevent paper jam problems after the assembly is reinstalled.

Make sure that the drive belts are correctly installed and have not been dislodged when handling the assembly.

Figure 1-1003 Reinstall the saddle assembly



Upper delivery guide assembly

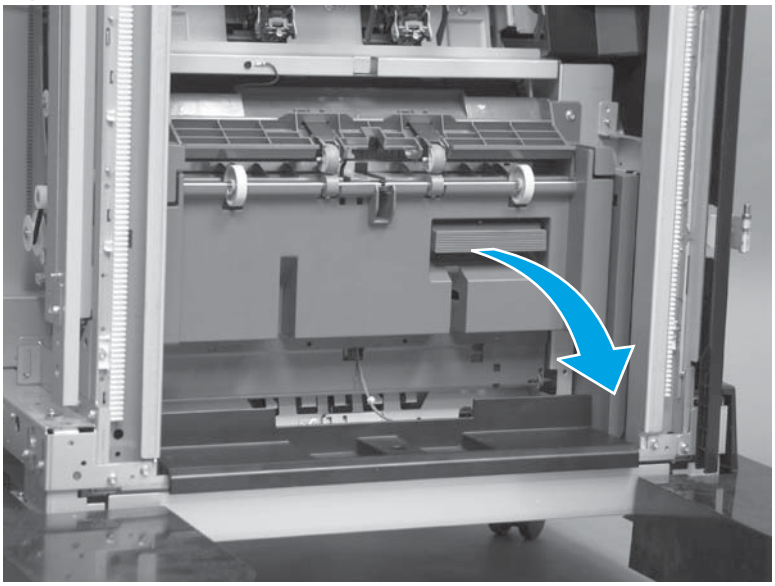
Before proceeding, remove the following assemblies:

- Open/closed stepped cover assembly. See Open/closed stepped cover assembly on page 471.
- Upper stepped cover assembly. See Upper stepped cover assembly on page 472.
- Lower stepped cover assembly. See Lower stepped cover assembly on page 474.
- Front door. See Front door on page 479.
- Inner upper cover assembly. See Inner upper cover assembly on page 480.
- Inner lower cover assembly. See Inner lower cover assembly on page 486.
- Bin cable guide cover. See Bin cable guide cover on page 492.
- Rear cover assembly. See Rear cover assembly on page 496.
- Stack wall upper cover assembly. See Stack wall upper assembly and upper wall guide assembly on page 518.
- Stack upper bin and lower bin assemblies. See Stack upper bin and lower bin assemblies on page 540.
- Height wall assembly. See Height wall assembly on page 546.
- Saddle output bin assembly. See Saddle output bin assembly on page 609.

Remove the upper delivery guide assembly

1. Open the upper delivery assembly door.

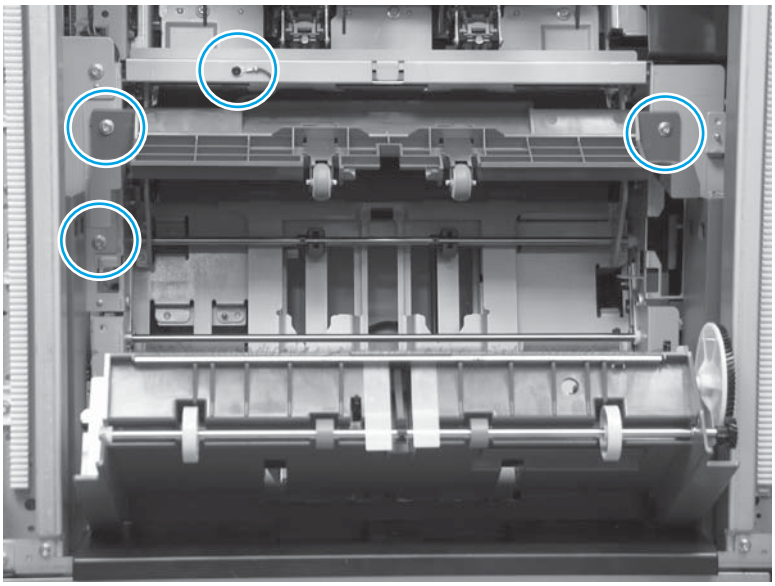
Figure 1-1004 Remove the upper delivery guide assembly (1 of 3)



2. Remove four screws.

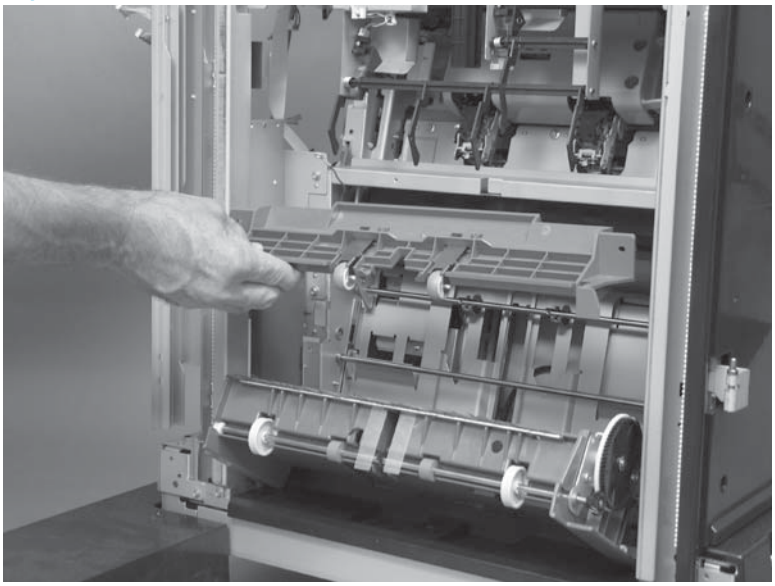
NOTE: One screw is a ground wire connection. Make sure that you reconnect the ground wire when the assembly is reinstalled.

Figure 1-1005 Remove the upper delivery guide assembly (2 of 3)



3. Remove the assembly.

Figure 1-1006 Remove the upper delivery guide assembly (3 of 3)



Saddle paper delivery assembly

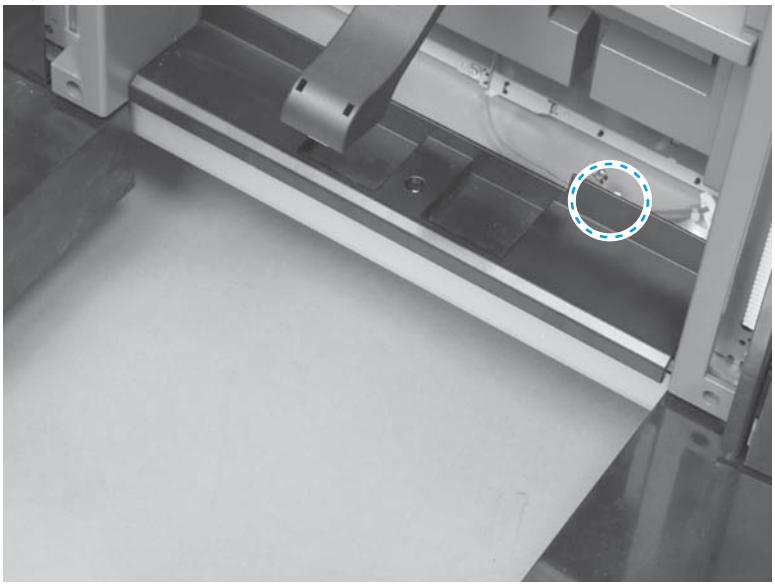
Before proceeding, remove the following assemblies:

- Saddle output bin assembly. See Saddle output bin assembly on page 609.

Remove the saddle paper delivery assembly

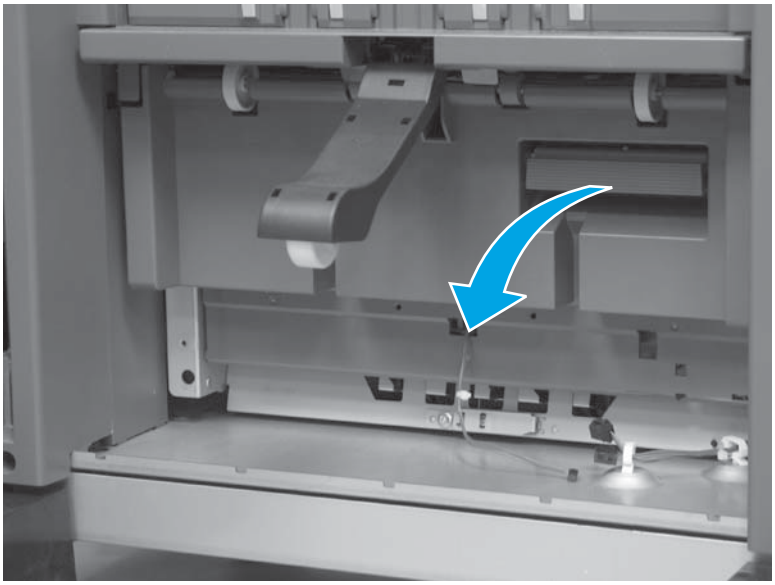
1. Disconnect one connector.

Figure 1-1007 Remove the saddle paper delivery assembly (1 of 5)



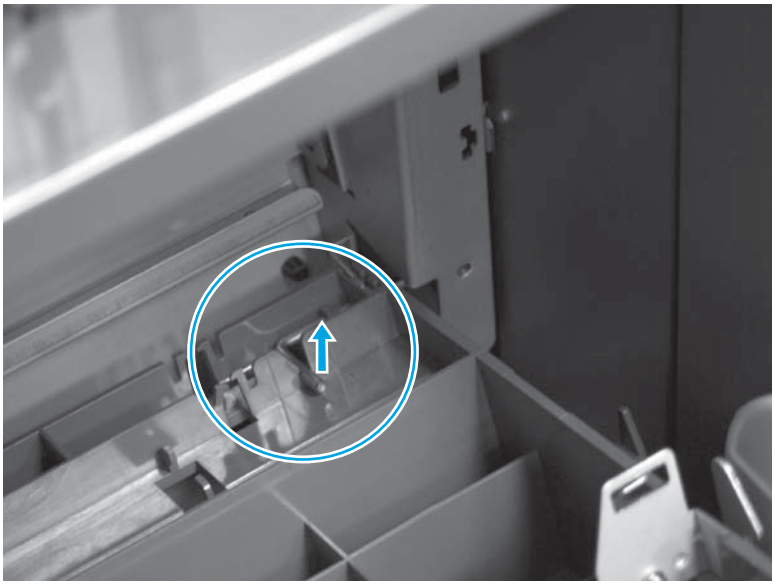
2. Open the upper delivery assembly door.

Figure 1-1008 Remove the saddle paper delivery assembly (2 of 5)



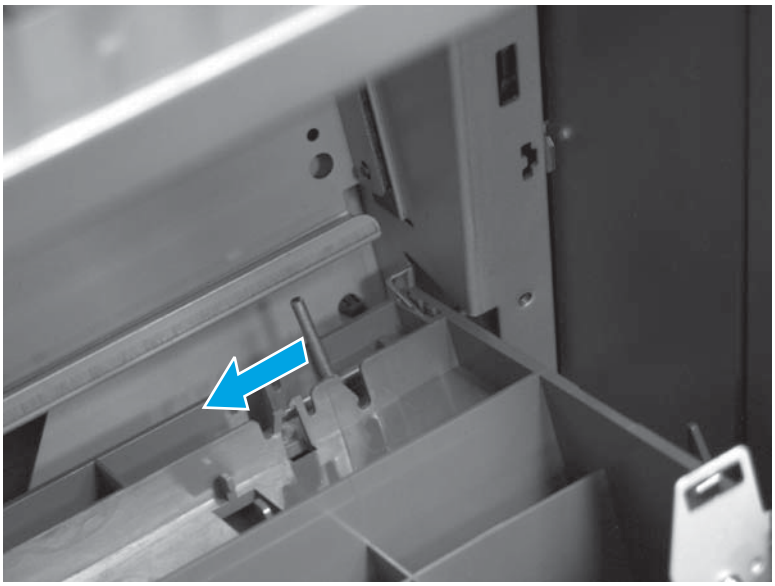
3. At the bottom lower-right corner of the upper delivery assembly door, locate and then rotate the locking pin to the upright position.

Figure 1-1009 Remove the saddle paper delivery assembly (3 of 5)



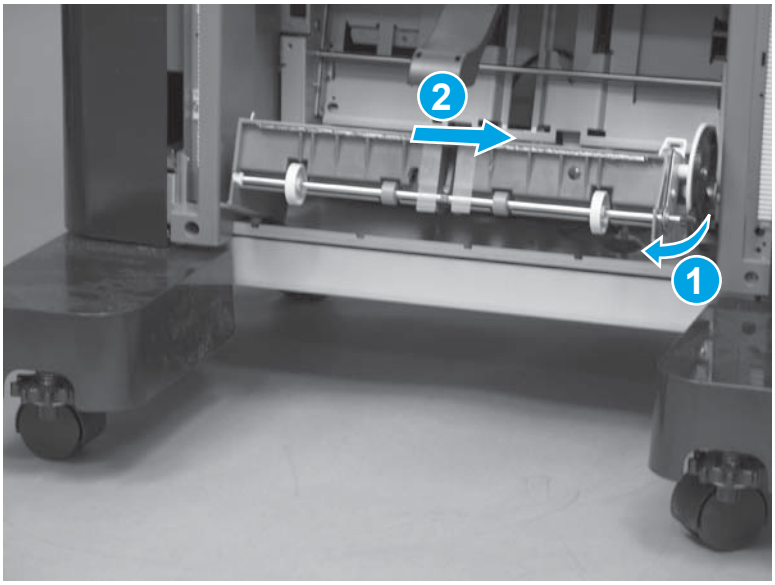
4. Slide the locking pin to the left to remove it.

Figure 1-1010 Remove the saddle paper delivery assembly (4 of 5)



5. Slightly rotate the right side of the assembly out and away from the accessory (callout 1), slide the to the right (callout 2) to release the left side hinge, and then remove the assembly.

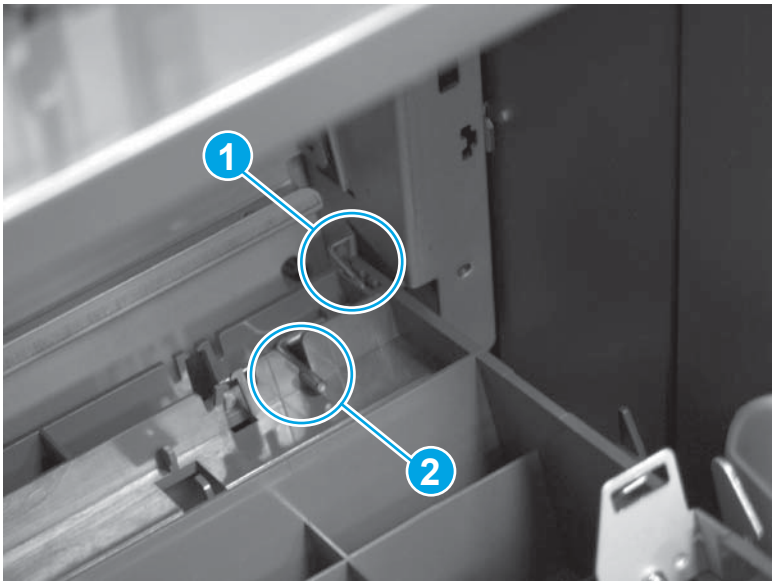
Figure 1-1011 Remove the saddle paper delivery assembly (5 of 5)



Reinstall the saddle paper delivery assembly

When the assembly is reinstalled, make sure that the sheet-metal of the accessory chassis is positioned in the slot in the cover (callout 1), and that the locking pin is in the locked position—push the pin all of the way down until it snaps into the locked position (callout 2).

Figure 1-1012 Reinstall the saddle paper delivery assembly



Saddle rear end sensor assembly

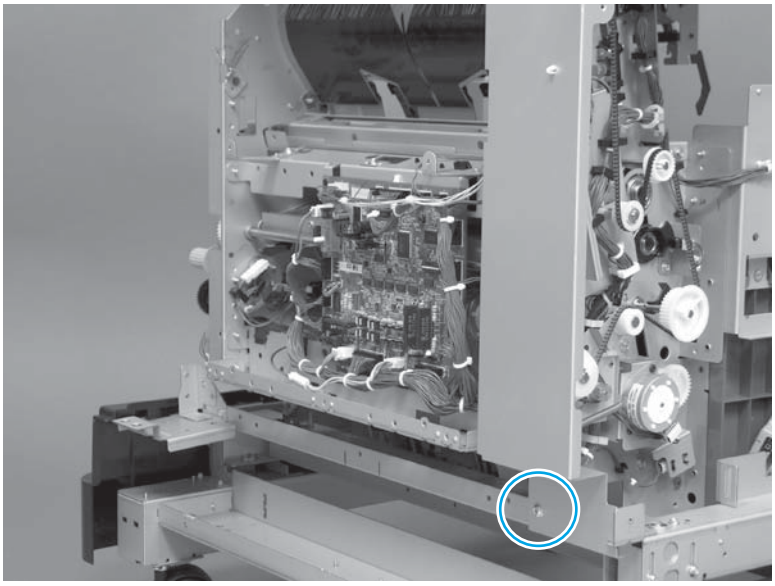
Before proceeding, remove the following assemblies:

- Latch lower covers (front and rear). See Latch lower covers (front and rear) on page 468.
- Latch assembly. See Latch assembly on page 470.
- Front door. See Front door on page 479.
- Inner upper cover assembly. See Inner upper cover assembly on page 480.
- Inner lower cover assembly. See Inner lower cover assembly on page 486.
- Bin cable guide cover. See Bin cable guide cover on page 492.
- Rear cover assembly. See Rear cover assembly on page 496.
- For all models with a hole punch assembly installed:
  - Punch lower front cover assembly. See Punch lower front cover assembly on page 684.
  - Punch rear cover assembly. See Punch rear cover assembly on page 686.
  - Punch waste tray. See Punch waste tray on page 688.
  - Punch inner cover assembly. See Punch inner cover assembly on page 689.
  - Punch upper cover assembly. See Punch top cover on page 691.
  - Punch hole assembly. See Punch hole assembly on page 694.
- Paper pass assembly. See Paper pass assembly on page 603.
- Right cover assembly (BM PCA). See Right cover assembly (BM PCA) on page 611.
- Saddle guide assembly. See Saddle guide assembly on page 649.

Remove the saddle rear end sensor assembly

1. Remove one screw.

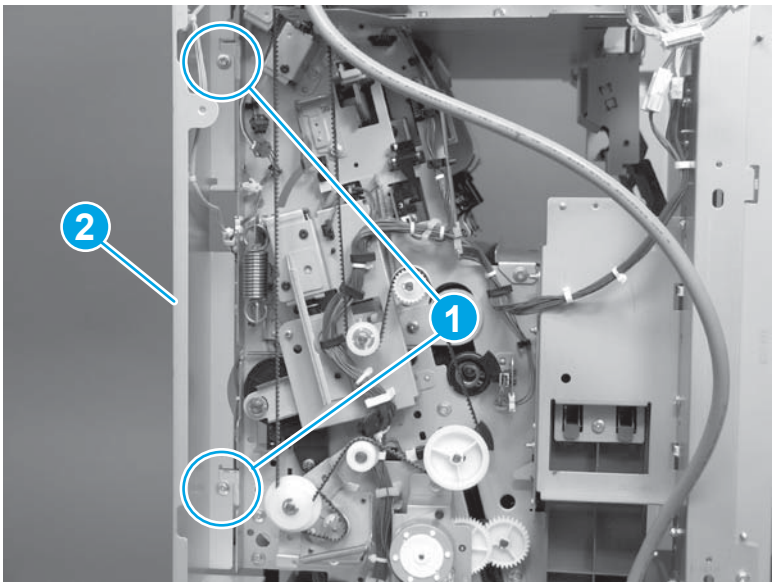
Figure 1-1013 Remove the saddle rear end sensor assembly (1 of 10)



2. Remove two screws (callout 1), and then move the sheet-metal plate (callout 2) out of the way.

⚠ CAUTION: The sheet-metal plate (callout 2) is still attached to the accessory by a wire harness and two retainers. Do not attempt to completely remove the sheet-metal plate.

Figure 1-1014 Remove the saddle rear end sensor assembly (2 of 10)

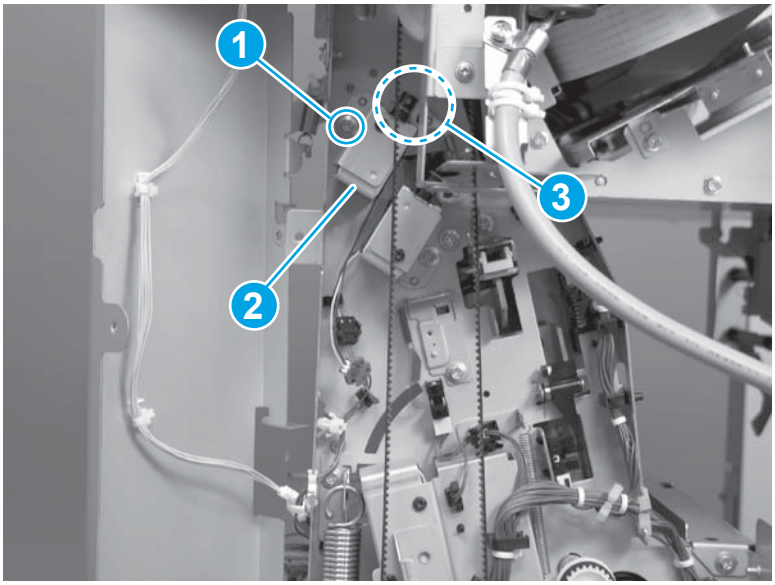


3. At the drive belt side of the accessory, remove one screw (callout 1), and then move the upper-deflector solenoid (callout 2) out of the way.

CAUTION: The solenoid (callout 2) is still attached to the accessory by one wire harness. Do not attempt to completely remove the solenoid.

NOTE: The solenoid plunger (callout 3) slides out of the solenoid as it is removed.

Figure 1-1015 Remove the saddle rear end sensor assembly (3 of 10)

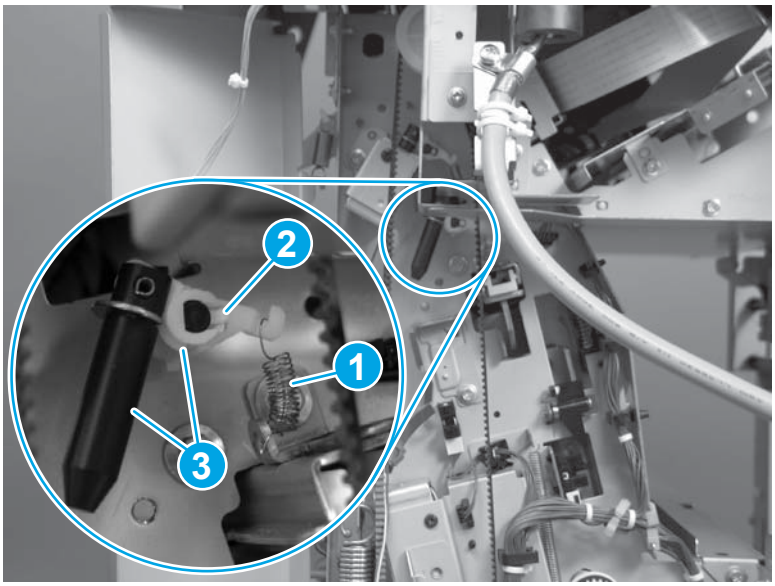


4. Remove one spring (callout 1), release one tab (callout 2) on the white-plastic retainer, and then slide the retainer and upper-deflector solenoid plunger and retainer (callout 3) off of the deflector shaft.

NOTE: The figure below shows lower-deflector spring, retainer, and plunger assemblies for clarity.

Reinstallation tip When the solenoid is reinstalled, make sure that the plunger freely moves in and out of the base before you fasten the base to the chassis.

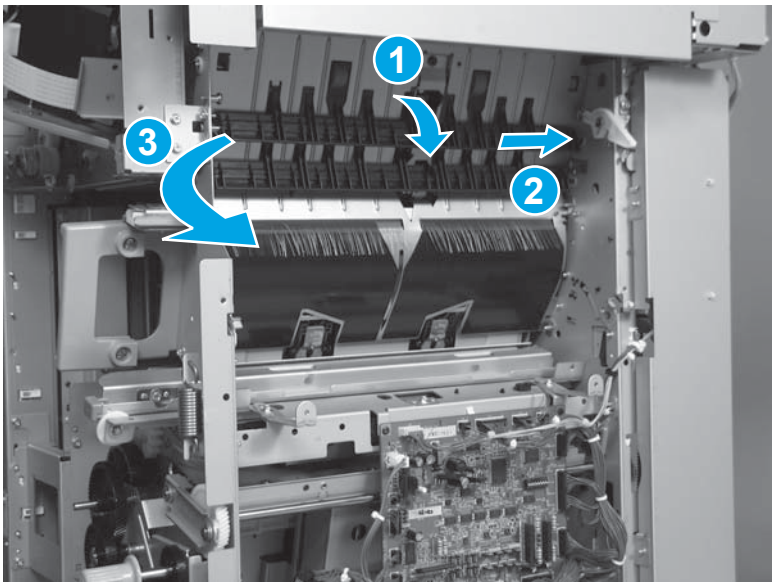
Figure 1-1016 Remove the saddle rear end sensor assembly (4 of 10)



5. At the output side of the accessory, rotate the top of the upper-deflector down (callout 1), slide the deflector toward the right (callout 2), and then carefully rotate the left end of the deflector away from the chassis (callout 3).

WARNING! The deflector shafts (at the left end and right end of the deflector) are fragile. Do not break either of the deflector shafts when removing the deflector.

Figure 1-1017 Remove the saddle rear end sensor assembly (5 of 10)

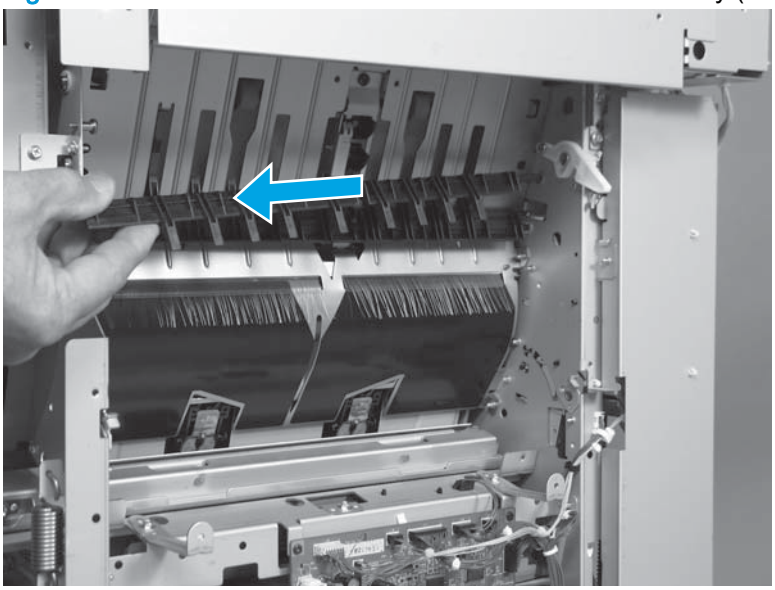


6. Slide the deflector to the left to remove it.

Repeat the previous steps to remove the lower-deflector solenoid, spring, retainer, plunger, and lower-deflector assemblies.

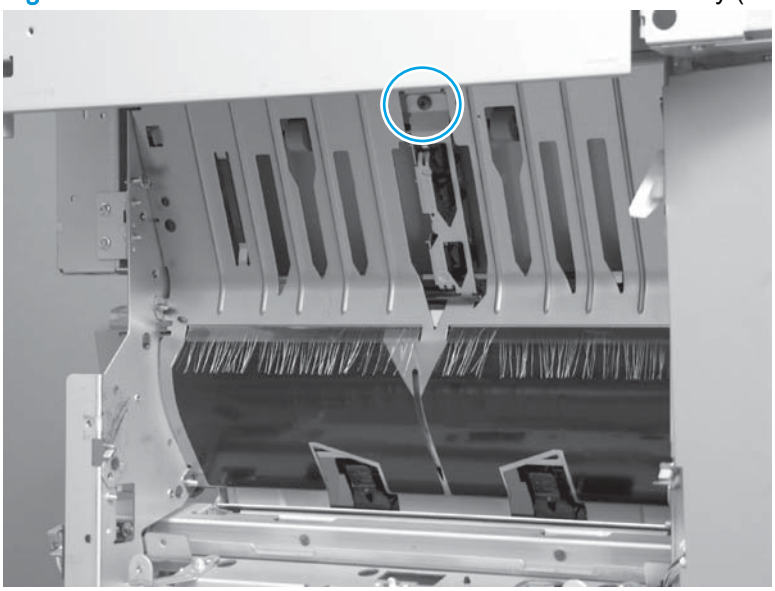
Reinstallation tip The upper- and lower-deflector shafts are not identical. Make sure that you install the correct deflector when they are reinstalled. See Reinstall the saddle rear end sensor on page 681.

Figure 1-1018 Remove the saddle rear end sensor assembly (6 of 10)



7. Remove one screw.

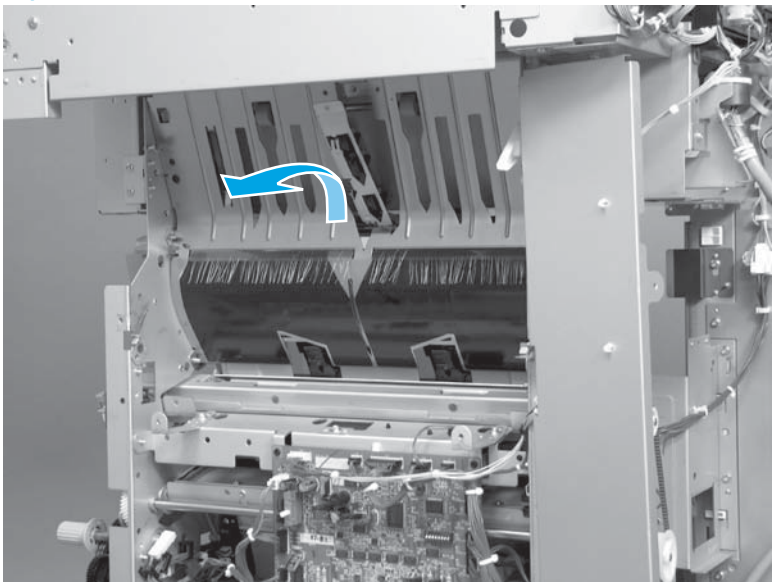
Figure 1-1019 Remove the saddle rear end sensor assembly (7 of 10)



8. Lift up on the sensor assembly to release it from the saddle assembly chassis.

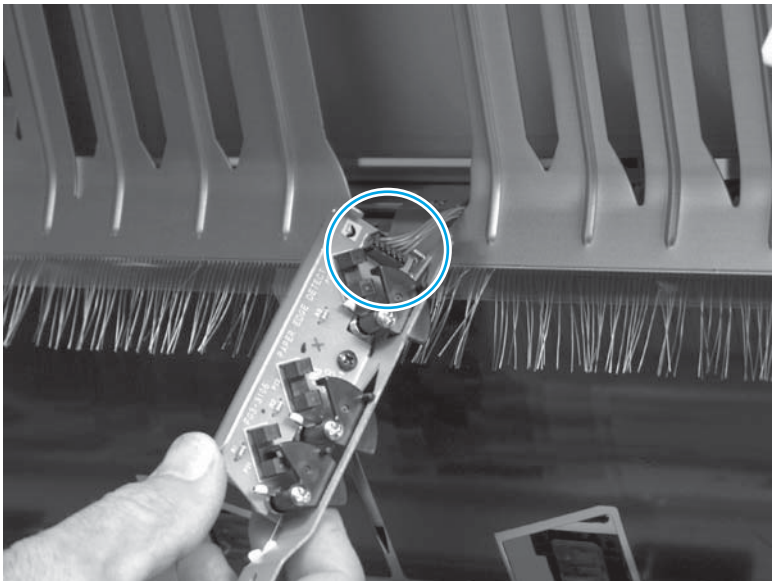
CAUTION: The sensor assembly is till attached to the accessory by one wire harness. Do not attempt to completely remove the sensor assembly.

Figure 1-1020 Remove the saddle rear end sensor assembly (8 of 10)



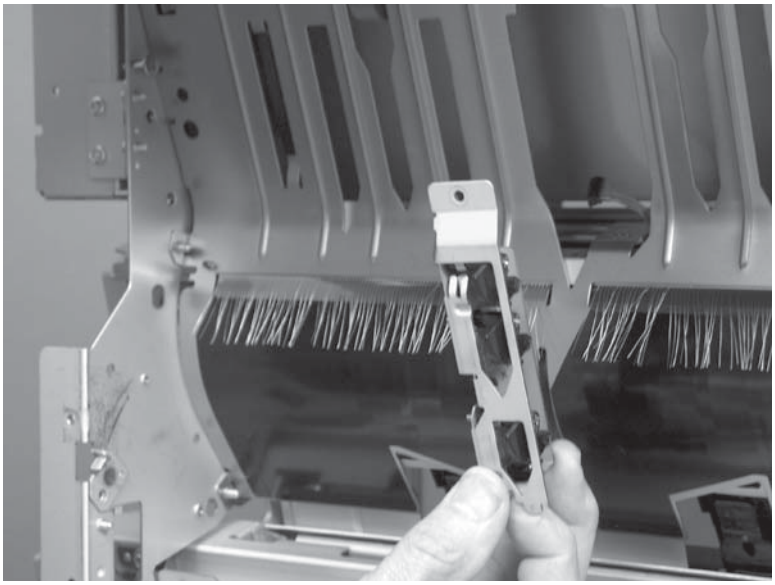
9. Turn the assembly over, and then disconnect one connector.

Figure 1-1021 Remove the saddle rear end sensor assembly (9 of 10)



10. Remove the saddle rear end sensor assembly.

Figure 1-1022 Remove the saddle rear end sensor assembly (10 of 10)

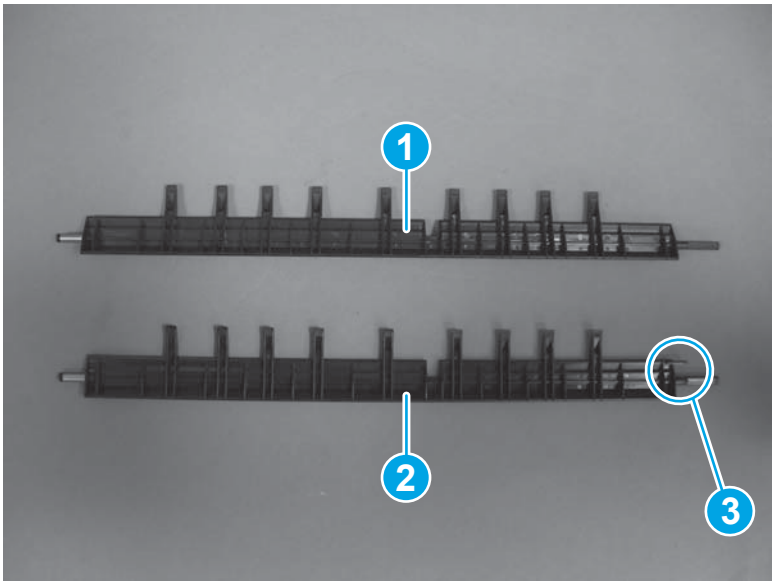


Reinstall the saddle rear end sensor

1. The upper-deflector (callout 1) and lower-deflector (callout 2) are not identical. Make sure that you install the correct deflector in the correct position when they are reinstalled.

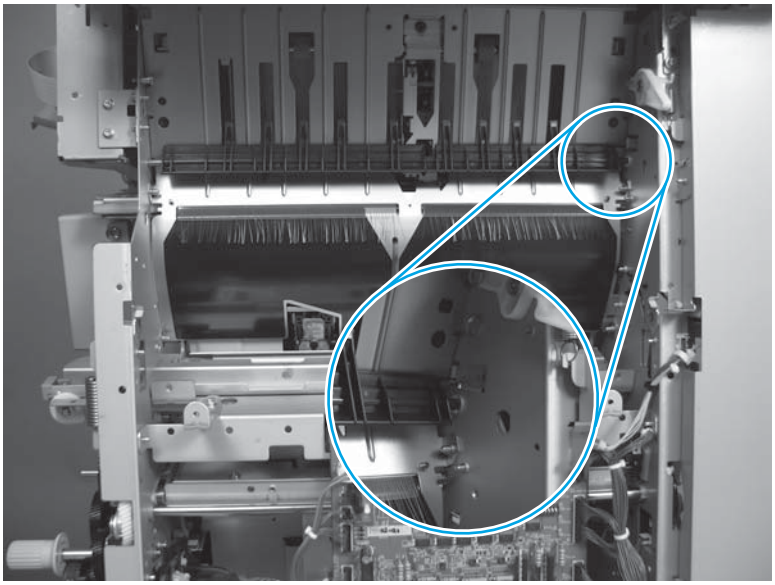
TIP: The lower-deflector (callout 2) can be identified by the small black-plastic tab (callout 3) near the right end of the shaft.

Figure 1-1023 Reinstall the saddle rear end sensor assembly (1 of 2)



2. When the lower-deflector is installed, the small black-plastic tab near the right end shaft must be positioned in the cutout portion of the chassis so that it will not bind when the deflector moves.

Figure 1-1024 Reinstall the saddle rear end sensor assembly (2 of 2)



Booklet maker and stapler/stacker with hole punch accessories

The assemblies described in this section are unique to the stapler/stacker with hole punch (SSHP) or booklet maker with hole punch (BMHP) finishing accessories. For information about removing and replacing assemblies that are common to all of the finishing accessories, see Shared finishing accessory assemblies on page 464.

- Remove the punch front cover
- Punch lower front cover assembly
- Punch rear cover assembly
- Punch controller PCA assembly
- Punch waste tray
- Punch inner cover assembly
- Punch top cover
- Punch hole assembly
- Replace the punch hole assembly or the punch controller PCA assembly

Remove the punch front cover

1. Open the punch front cover, and then remove one screw.

Figure 1-1025 Remove the punch front cover (1 of 2)

2. Release the hinge pin, and then remove the cover.

Figure 1-1026 Remove the punch front cover (2 of 2)

Punch lower front cover assembly

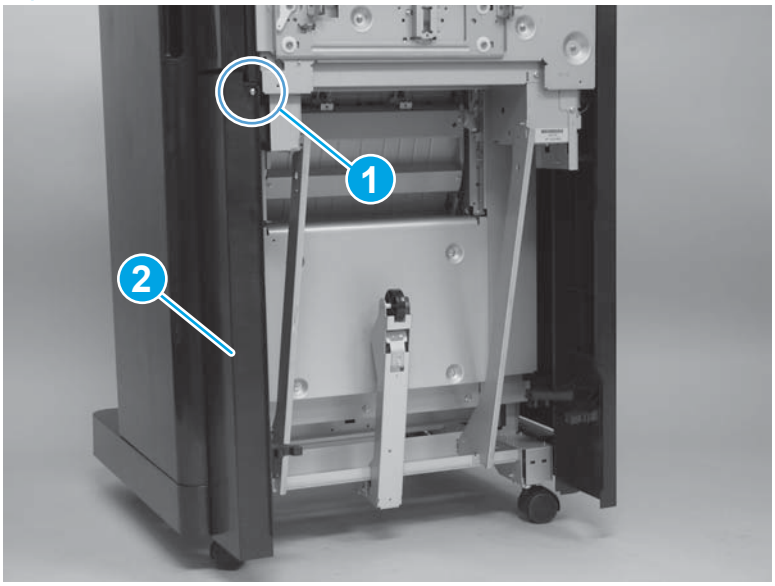
Before proceeding, remove the following assemblies:

- Latch lower cover assembly (front). See Latch lower covers (front and rear) on page 468.

Remove the punch lower front cover assembly

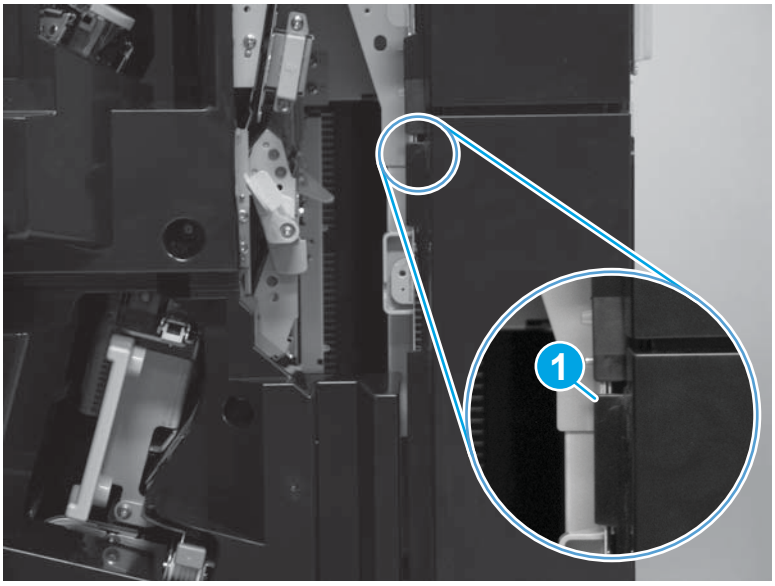
1. Remove one screw (callout 1) on the right side of the cover (callout 2).

   Figure 1-1027 Remove the punch lower front cover assembly (1 of 3)

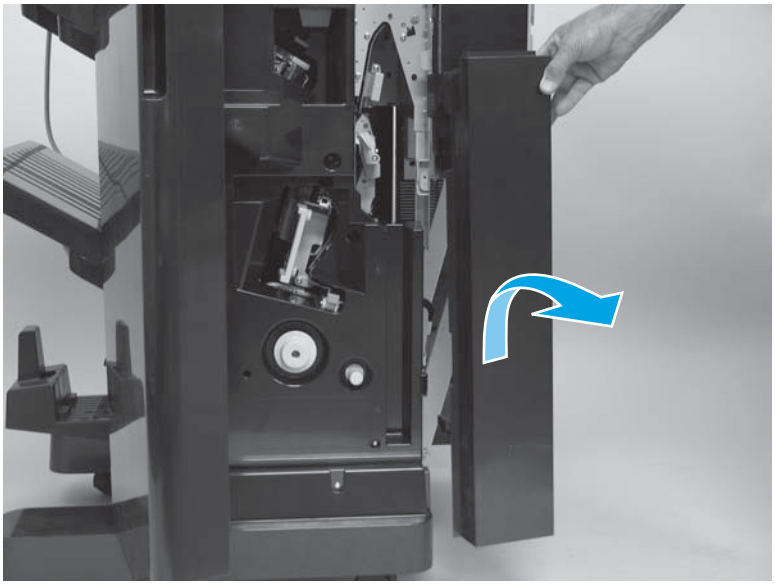
2. Open the front door, and then release one tab (callout 1).

   Figure 1-1028 Remove the punch lower front cover assembly (2 of 3)

3. Slightly lift up on the cover to release it, and then remove the cover.

Figure 1-1029 Remove the punch lower front cover assembly (3 of 3)



Punch rear cover assembly

Before proceeding, remove the following assemblies:

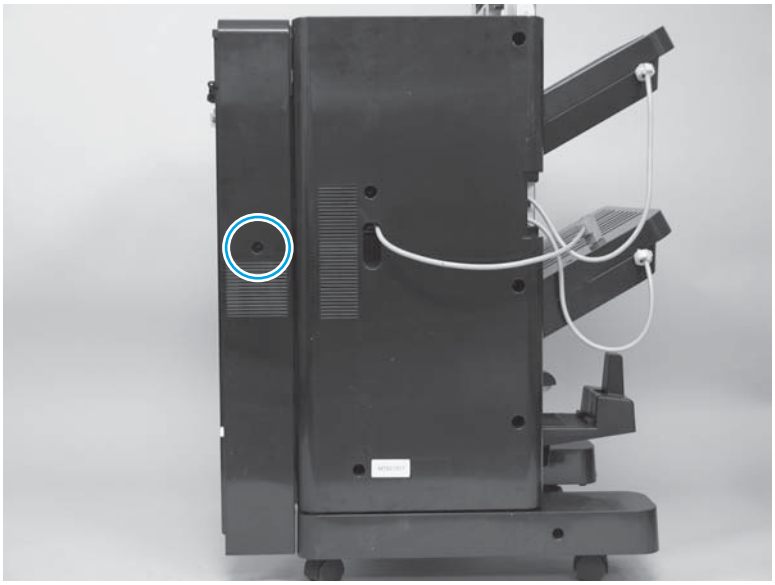
- Latch lower covers (front and rear). See Latch lower covers (front and rear) on page 468.

NOTE: Only the lower latch cover rear needs to be removed.

Remove the punch rear cover assembly

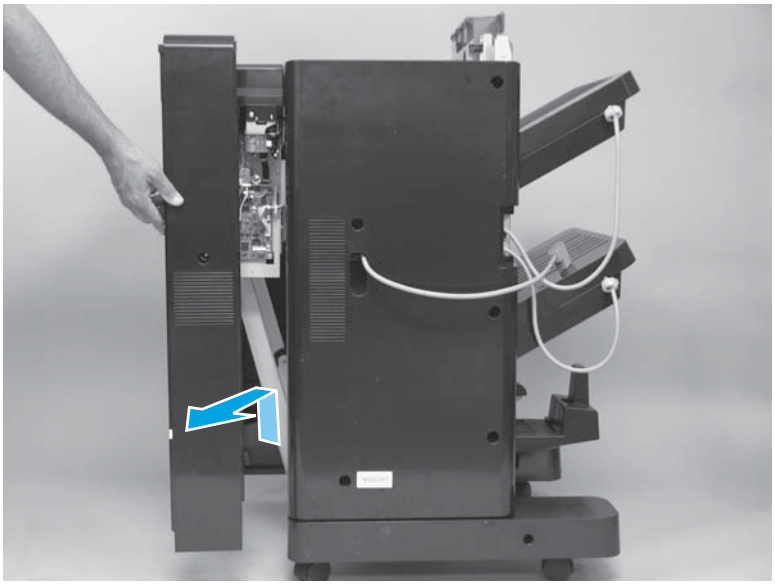
1. Remove one screw.

Figure 1-1030 Remove the punch rear cover assembly (1 of 2)



2. Slightly lift up on the cover to release it, and then remove the cover.

Figure 1-1031 Remove the punch rear cover assembly (2 of 2)



Punch controller PCA assembly

Before proceeding, remove the following assemblies:

- Punch rear cover assembly. See Punch rear cover assembly on page 686.

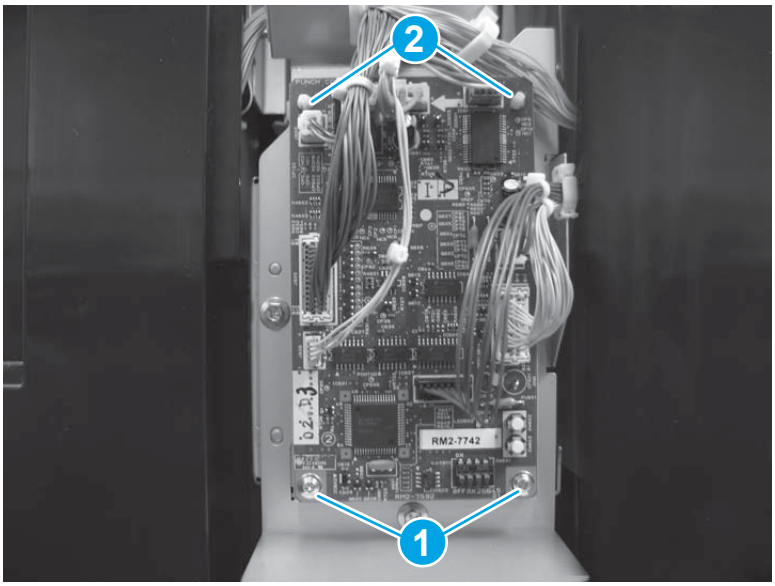
Remove the punch controller PCA assembly

CAUTION: ESD sensitive assembly.

Disconnect eight connectors, remove two screws (callout 1), release two standoffs (callout 2), and then remove the PCA.

TIP: Releasing the wire harnesses from the retainers will make it easier to disconnect some of the connectors on the PCA.

Figure 1-1032 Remove the punch controller PCA assembly



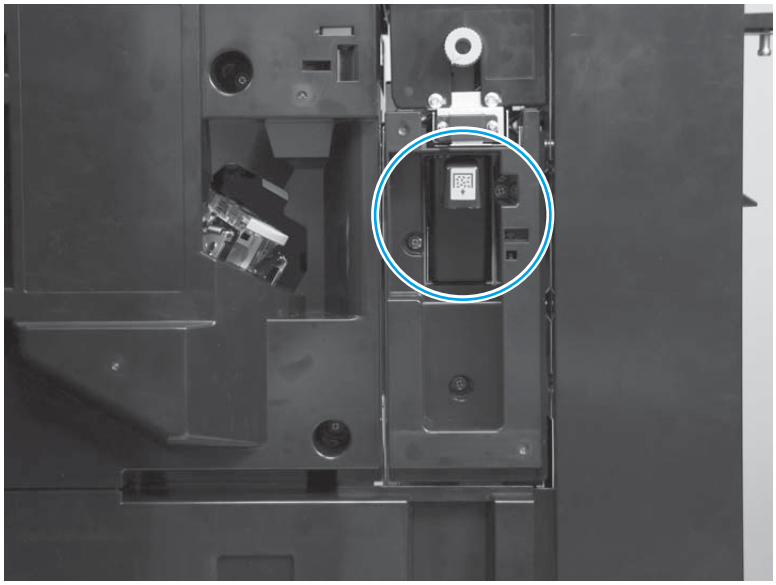
Reinstall the punch controller PCA assembly

IMPORTANT: If you are installing a replacement punch hole assembly or punch controller PCA, you must set the punch hole assembly type and adjust sensor values on the punch controller PCA. See Replace the punch hole assembly or the punch controller PCA assembly on page 702.

Punch waste tray

Pull the punch waste tray straight out of the punch assembly to remove it.

Figure 1-1033 Remove the punch waste tray



Punch inner cover assembly

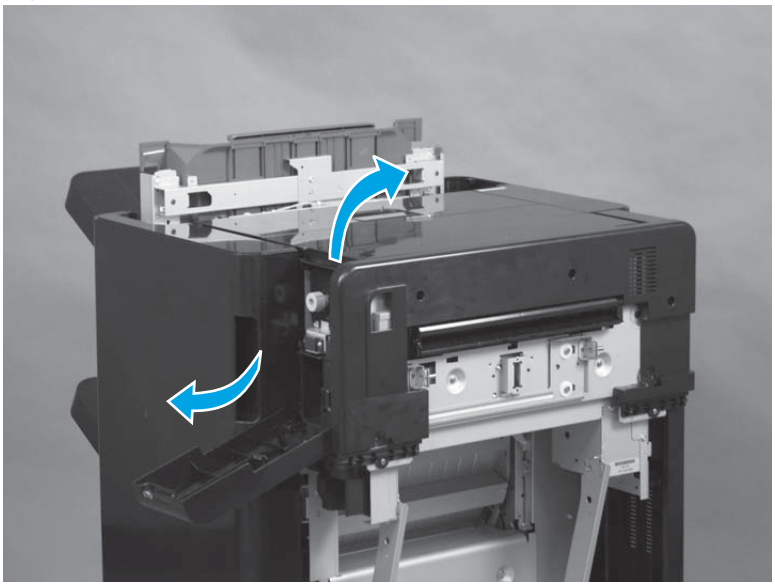
Before proceeding, remove the following assemblies:

- Latch lower cover assembly (front). See Latch lower covers (front and rear) on page 468.
- Punch lower front cover assembly. See Punch lower front cover assembly on page 684.
- Punch waste tray. See Punch waste tray on page 688.

Remove the punch inner cover assembly

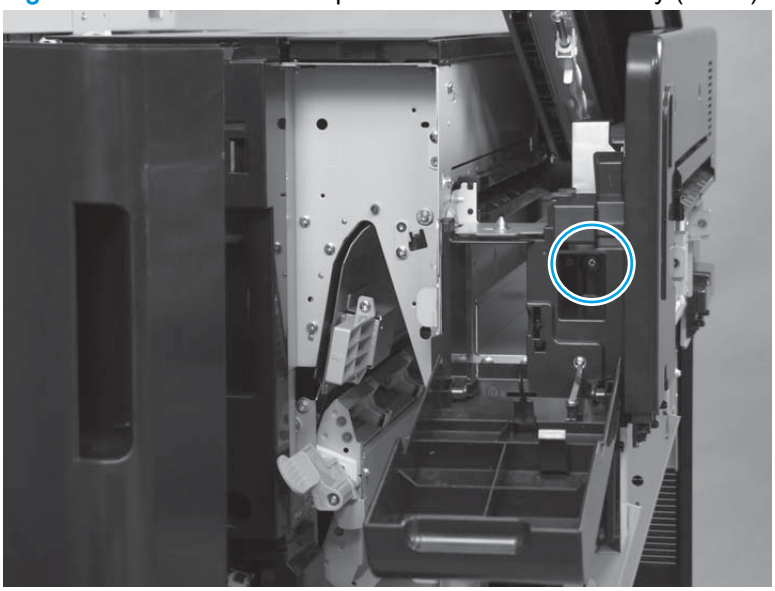
1. Raise the punch upper cover, and then open the front door.

   Figure 1-1034 Remove the punch inner cover assembly (1 of 4)

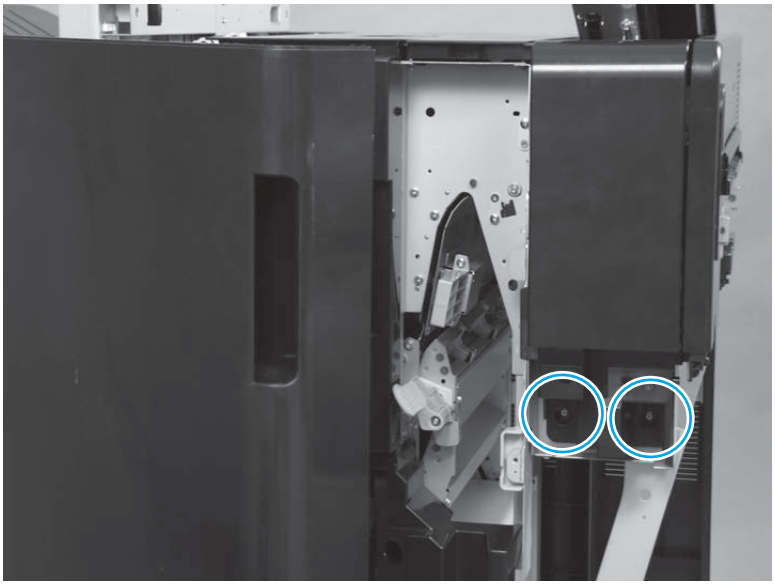
2. Remove one screw.

   Figure 1-1035 Remove the punch inner cover assembly (2 of 4)

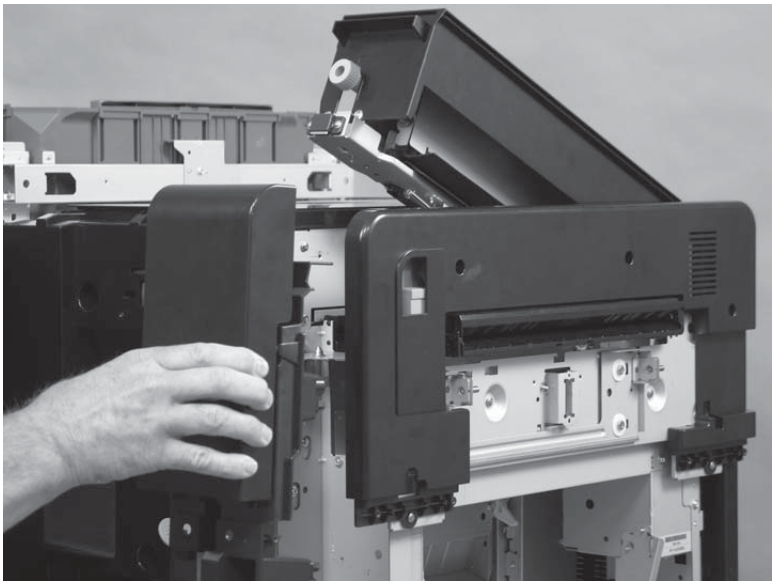
3. Close the punch door, and then remove two screws.

Figure 1-1036 Remove the punch inner cover assembly (3 of 4)



4. Remove the cover.

Figure 1-1037 Remove the punch inner cover assembly (4 of 4)



Punch top cover

Before proceeding, remove the following assemblies:

- Latch lower covers (front and rear). See Latch lower covers (front and rear) on page 468.

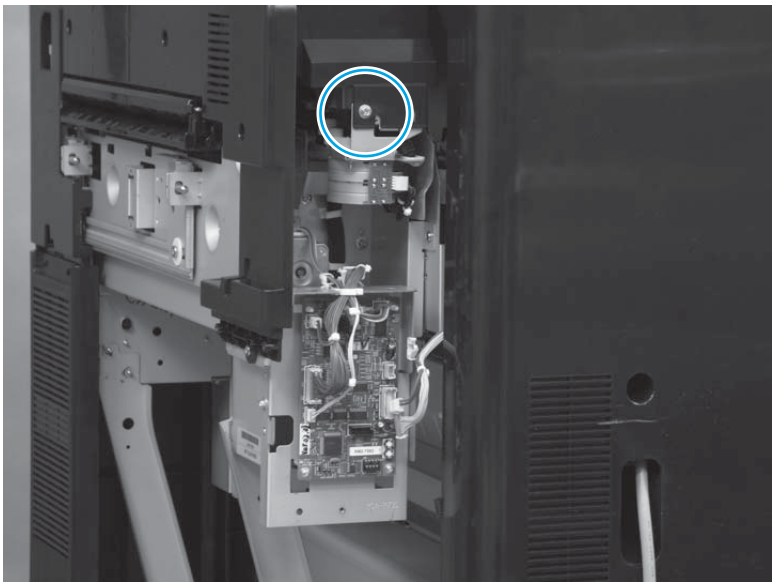
NOTE: Only the lower latch cover rear needs to be removed.

- Punch rear cover assembly. See Punch rear cover assembly on page 686.

Remove the punch top

1. Remove one screw.

Figure 1-1038 Remove the punch top cover (1 of 6)



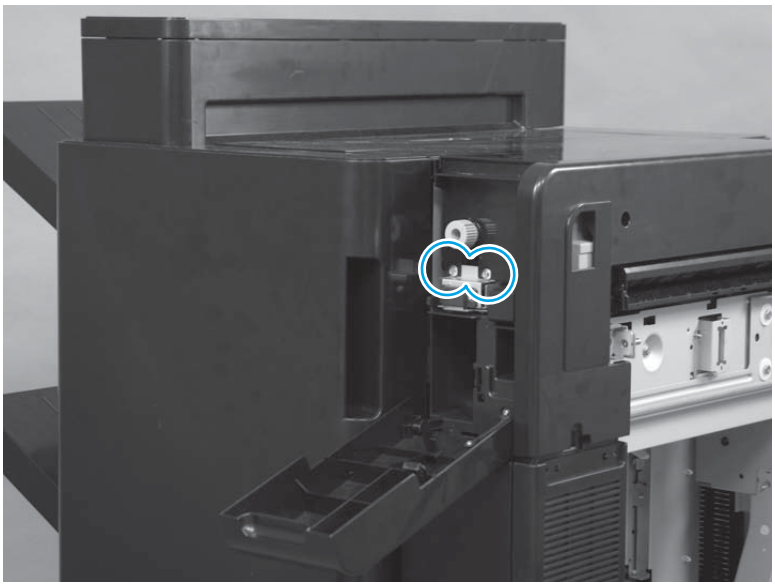
2. Open the punch door.

Figure 1-1039 Remove the punch top cover (2 of 6)

3. Remove two screws.

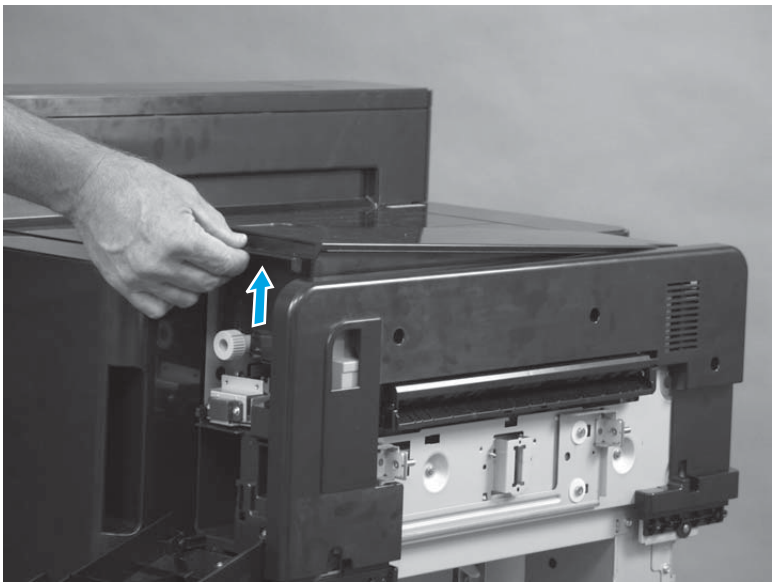
Reinstallation tip The mounting holes for these two screws are slotted. Use these screws to adjust the position of the cover when it is reinstalled if it strikes the punch assembly or does not align correctly with the accessory covers.

Figure 1-1040 Remove the punch top cover (3 of 6)



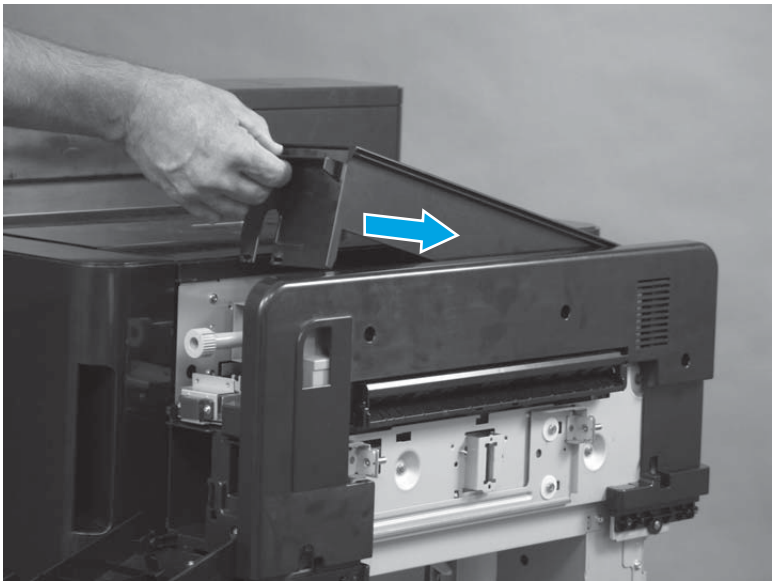
4. Slightly raise the front edge of the cover.

Figure 1-1041 Remove the punch top cover (4 of 6)



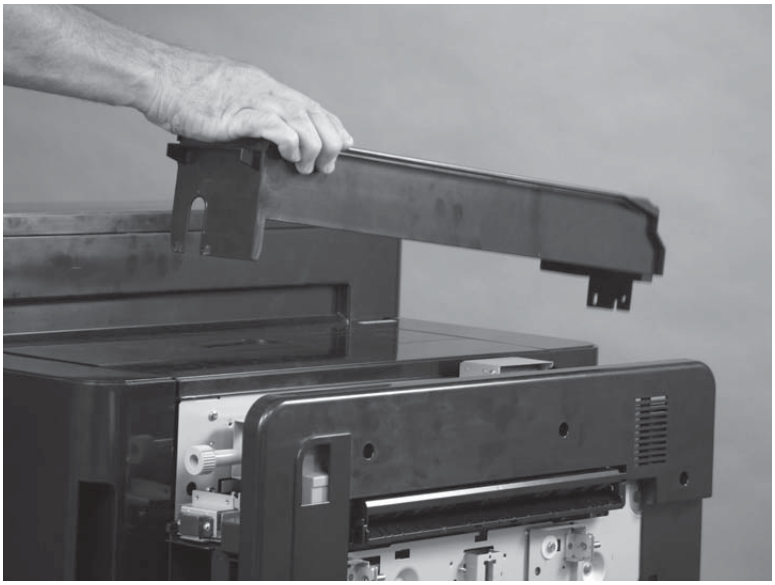
5. Slide the cover towards the rear of the accessory to release it.

Figure 1-1042 Remove the punch top cover (5 of 6)



6. Remove the cover.

Figure 1-1043 Remove the punch top cover (6 of 6)



Punch hole assembly

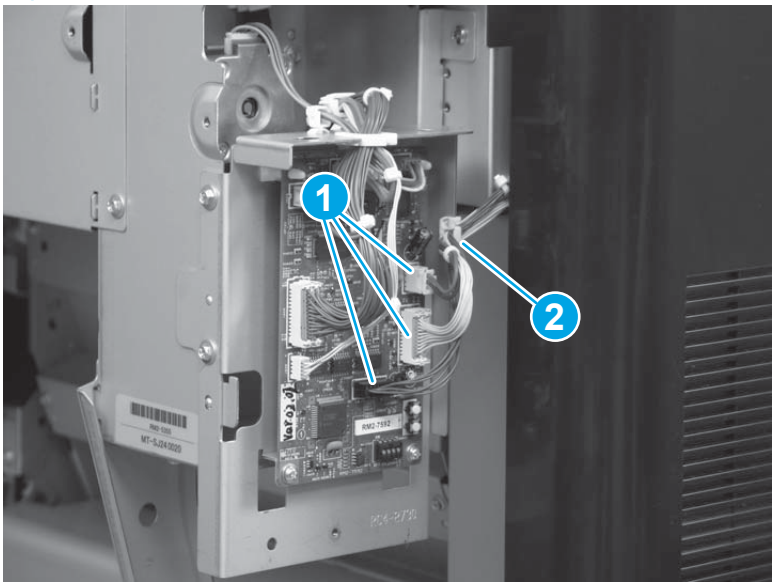
Before proceeding, remove the following assemblies:

- Latch lower covers (front and rear). See Latch lower covers (front and rear) on page 468.
- Latch assembly. See Latch assembly on page 470.
- Punch lower front cover assembly. See Punch lower front cover assembly on page 684.
- Punch rear cover assembly. See Punch rear cover assembly on page 686.
- Punch waste tray. See Punch waste tray on page 688.
- Punch inner cover assembly. See Punch inner cover assembly on page 689.
- Punch top cover. See Punch top cover on page 691.

Remove the punch hole assembly

1. Disconnect three connectors (callout 1) on the controller PCA, and then release the wire harnesses from one retainer (callout 2).

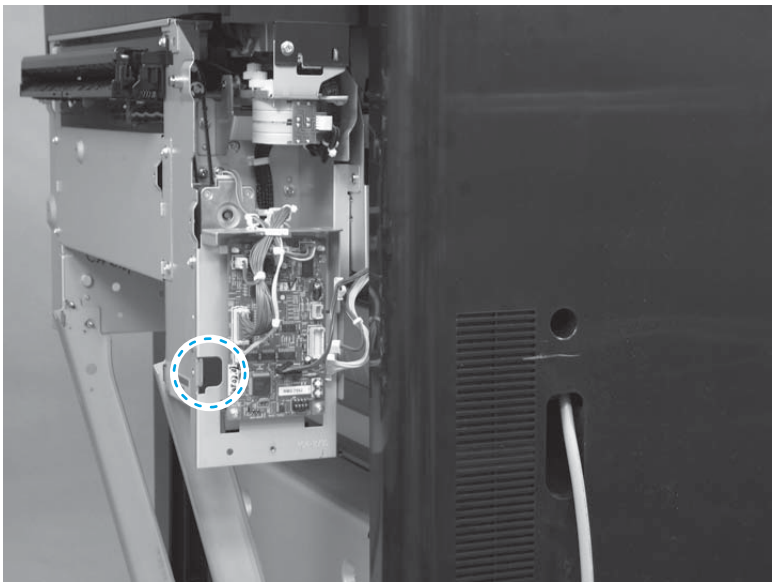
Figure 1-1044 Remove the punch hole assembly (1 of 8)



2. Remove two screws.

TIP: These screws fasten the rear sheet-metal support bracket to the punch assembly. Use the hole provided in the chassis next to the punch controller PCA to gain access to these screws.

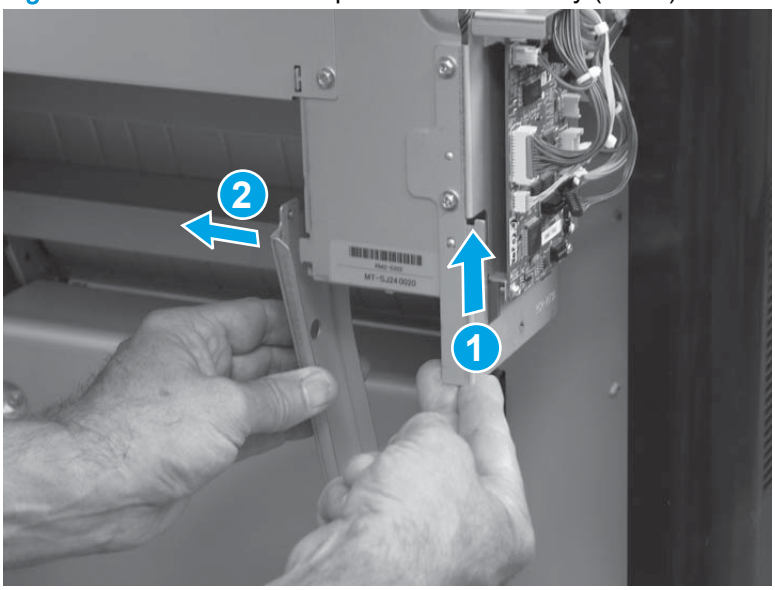
Figure 1-1045 Remove the punch hole assembly (2 of 8)



3. Slightly lift up on the punch hole assembly (callout 1), and then disengage the sheet-metal support bracket (callout 2).

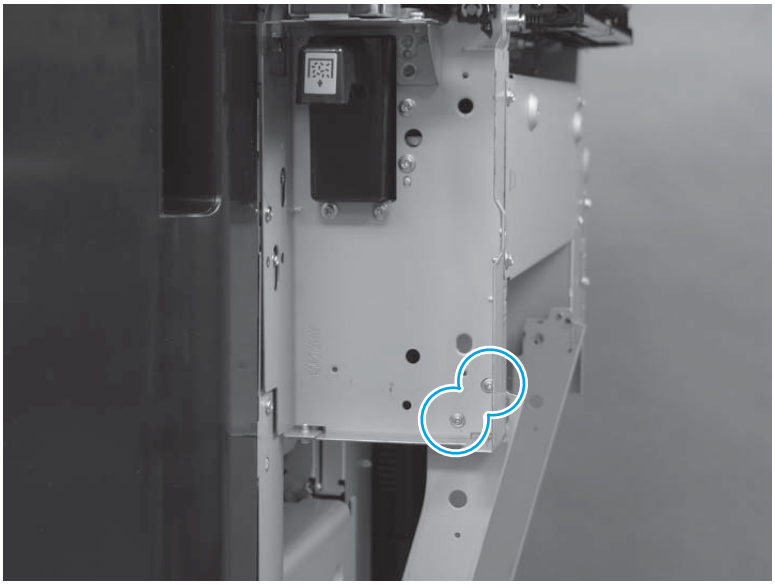
NOTE: The punch hole assembly is still fastened to the accessory chassis, but you should be able to disengage the support bracket.

Figure 1-1046 Remove the punch hole assembly (3 of 8)



4. Remove two screws.

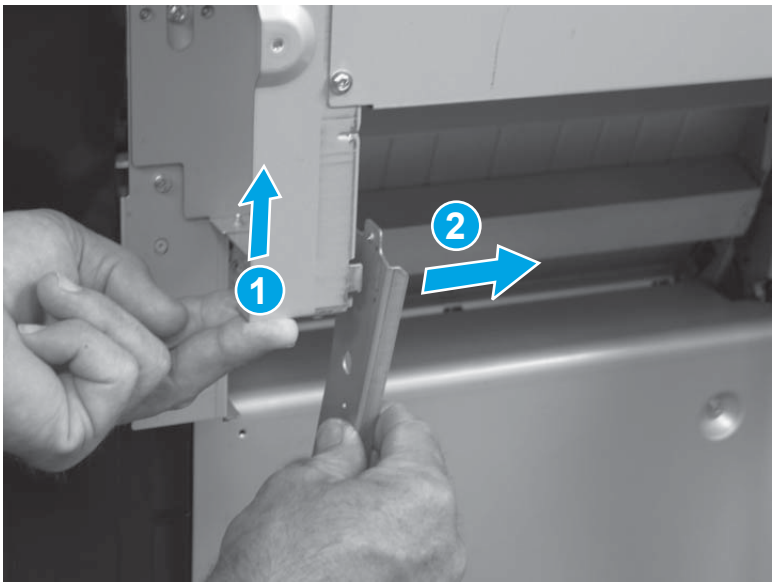
Figure 1-1047 Remove the punch hole assembly (4 of 8)



5. Slightly lift up on the punch hole assembly (callout 1), and then disengage the sheet-metal support bracket (callout 2).

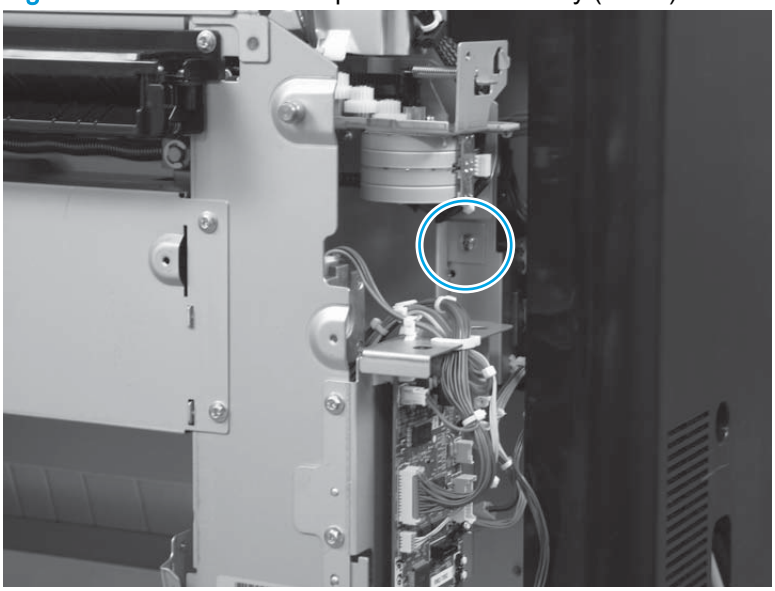
NOTE: The punch hole assembly is still fastened to the accessory chassis, but you should be able to disengage the support bracket.

Figure 1-1048 Remove the punch hole assembly (5 of 8)



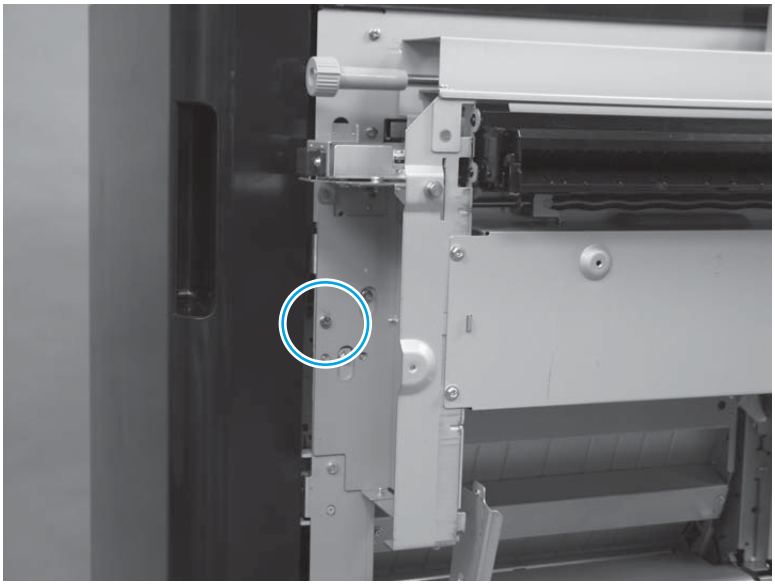
6. Remove one screw.

Figure 1-1049 Remove the punch hole assembly (6 of 8)



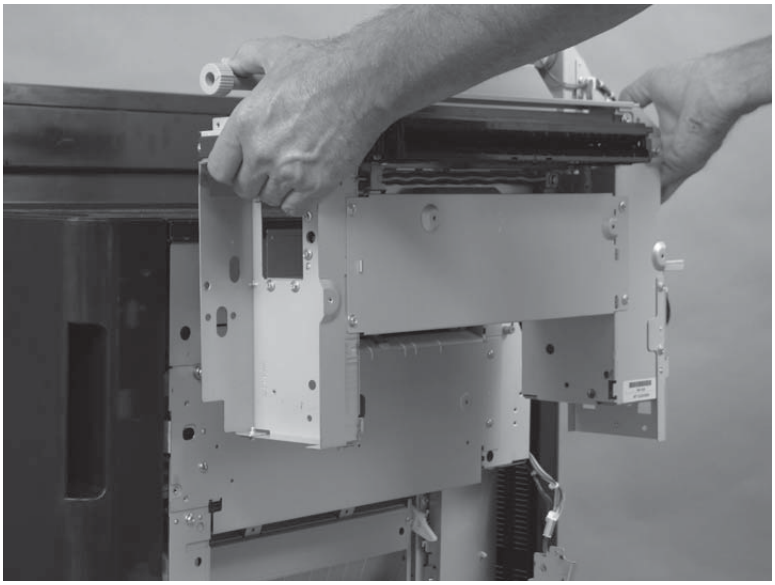
7. Remove one screw.

Figure 1-1050 Remove the punch hole assembly (7 of 8)



8. Lift the assembly up to release it, and then remove the assembly.

Figure 1-1051 Remove the punch hole assembly (8 of 8)



Reinstall the punch hole assembly

IMPORTANT: If you are installing a replacement punch hole assembly or punch controller PCA, you must set the punch hole assembly type and adjust sensor values on the punch controller PCA. See Replace the punch hole assembly or the punch controller PCA assembly on page 702.

Adjust the punch hole location

Punch adjustment is required when the punch holes are misaligned. If necessary, use the procedure below to adjust the position of punched holes after reinstalling, or replacing, the punch hole assembly.

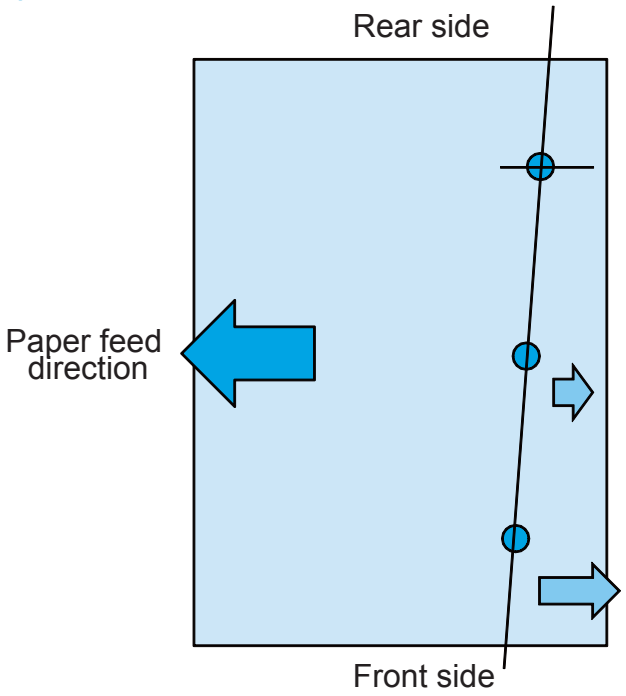
Adjust the screw on the puncher assembly to correct the position of punch holes.

NOTE: The rear side punch hole is in a fixed position. The adjustment is made by pivoting the middle and front side hole in relation to the fixed rear side hole until all of the holes are aligned.

1. Identify in which direction the punched hole adjustment is required.

   The figure below shows the punched hole misaligned to the left.

   Figure 1-1052 Determine the punch hole skew



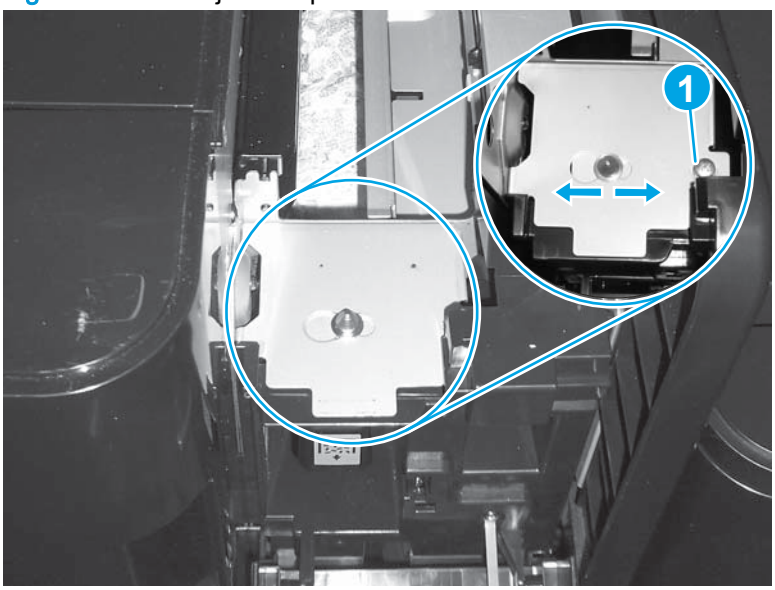
2. To adjust the skewed hole alignment, do the following.

   NOTE: This adjustment procedure only moves the front portion of the punch to move the front hole into alignment with the rear hole.

   a. Open the punch door and upper cover.

b. Loosen the adjustment screw (callout 1), and then move the punch plate to the right or to the left as necessary to bring the front punched hole in alignment with the rear hole.

Figure 1-1053 Adjust the punch hole location



c. Tighten the adjustment screw.

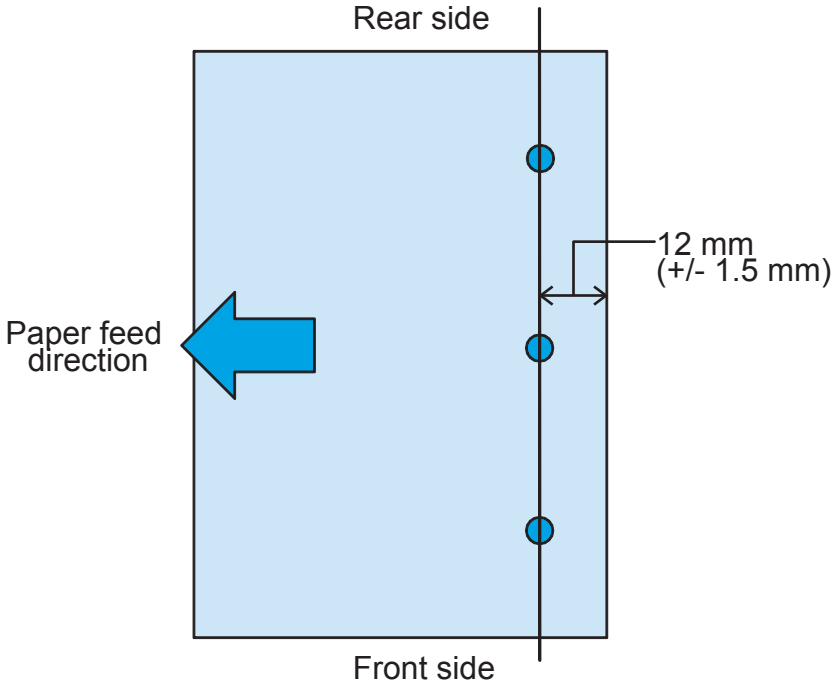
IMPORTANT: Fully tighten the adjustment screw after making each adjustment and before closing the upper cover to make sure that the punch position does not move.

d. Close the punch door and upper cover.

3. Print five test pages and repeat the adjustment procedure above until all the holes are aligned on the page. The figure below shows a page with correctly aligned punch holes.

NOTE: The 12 mm (.47 in) distance from the trailing edge of the paper is calculated in firmware and cannot be adjusted.

Figure 1-1054 Correct punch hole alignment



4. After adjustment is completed, print 25 test pages and make sure that the punched hole alignment remains constant.

NOTE: If some pages have skewed holes while others do not, the problem is a skew in the paper and not the punch.

Replace the punch hole assembly or the punch controller PCA assembly

The punch controller PCA assembly stores configuration information for the punch hole assembly. Every time the punch hole assembly or the punch controller PCA assembly is replaced, the following procedures must be performed to set the punch hole assembly type as well as adjust sensors in the assembly.

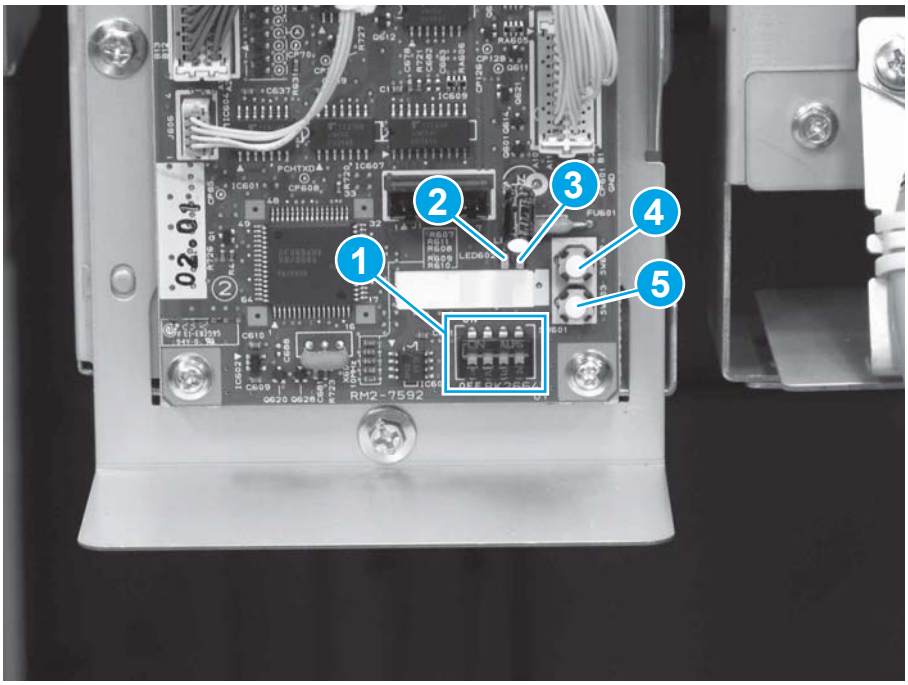
Set the punch hole assembly type

Two types of punch hole assemblies are available: the 2/3 punch hole assembly (part number A2W94-67901), or the 2/4 punch hole assembly (part number CZ999-67902). Refer to the part number on the replacement part to determine the type of assembly you are installing. Follow these steps to set the punch hole assembly type.

1. Turn the product power off.
2. Locate the switches and LEDs on the punch controller PCA.
   - SW601 (callout 1)

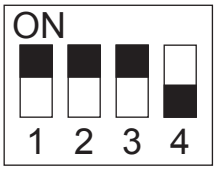
     NOTE: SW601 has four electronic switches that can be configure in the ON or OFF position. The punch controller PCA is marked ON and OFF to show the current switch position.
   - LED602 (callout 2)
   - LED601 (callout 3)
   - SW602 (callout 4)
   - SW603 (callout 5)

Figure 1-1055 Set the punch hole assembly type



3. Set SW601 to the following:

Figure 1-1056 SW601 punch hole assembly type settings



4. Turn the product power on.

5. Press SW602 and observe the blinking pattern of LED601 and LED602. The table below explains the different blinking patterns.

Table 1-30 LED601 and LED602 blinking patterns

LED601	LED602	LED blinking pattern explanation
Blinking one time		Not applicable
Blinking two times		2/3 punch hole assembly selected
Blinking three times		2/4 punch hole assembly selected
Blinking alternately		Waiting for type setting completion
Not lit	Blinking steadily	Type setting completed

6. Continue pressing SW602 until the blinking pattern matches the type of punch hole assembly you are installing. For example, if you are installing a 2/4 punch hole assembly (part number CZ999-67902), press SW602 until both LED601 and LED602 blink three times.

7. Once the LEDs are blinking in the correct pattern, press SW603 to store the punch hole assembly type value in memory.

8. Wait until LED601 is not lit and LED602 is blinking steadily to indicate the type setting is complete.

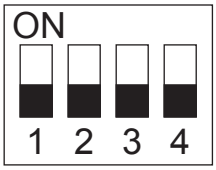
9. Press either SW602 or SW603.

10. Wait until only LED602 is blinking.

11. Turn the product power off.

12. Return all of the switches on SW601 to the OFF position.

Figure 1-1057 SW601 sensor adjustment settings



Set the sensor adjustment values

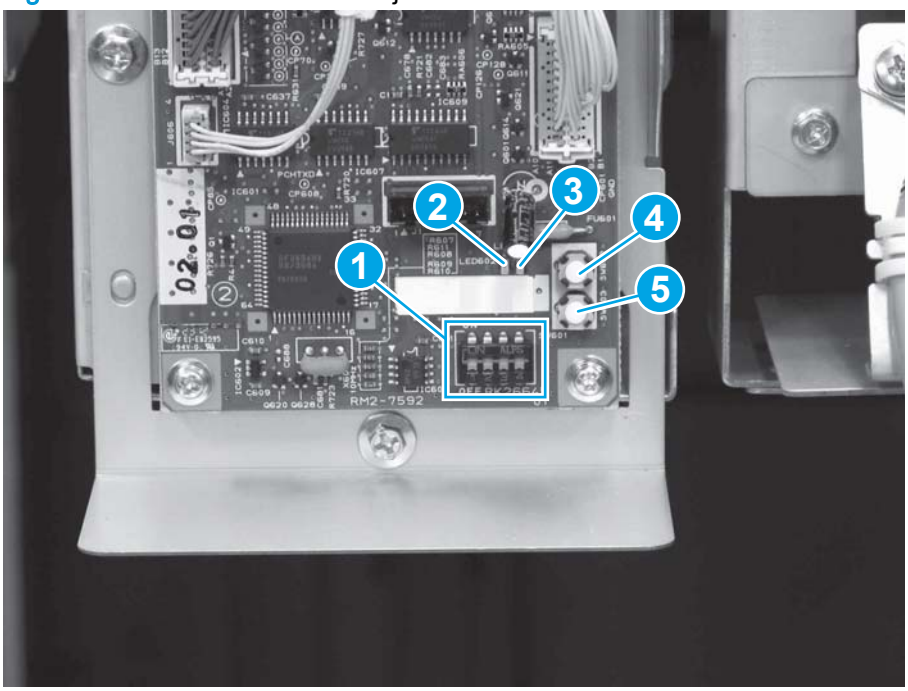
Follow these steps to adjust the sensors on the punch controller PCA.

1. Turn the product power off.
2. Locate the switches and LEDs on the punch controller PCA.
   - SW601 (callout 1)

     NOTE: SW601 has four electronic switches that can be configure in the ON or OFF position. The punch controller PCA is marked ON and OFF to show the current switch position.

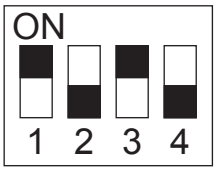
   - LED602 (callout 2)
   - LED601 (callout 3)
   - SW602 (callout 4)
   - SW603 (callout 5)

   Figure 1-1058 Set the sensor adjustment values



3. Set SW601 to the following:

   Figure 1-1059 SW601 sensor adjustment settings



4. Turn the product power on.

5. Press SW602 and observe the blinking pattern of LED601 and LED602. The table below explains the different blinking patterns.

Table 1-31 LED601 and LED602 blinking patterns

LED601	LED602	LED blinking pattern explanation
Solidly lit	Blinking steadily	Adjusting sensors
Blinking alternately		Waiting for adjustment completion
Not lit	Blinking steadily	Sensor adjustment completed

6. Wait until LED601 is not lit and LED602 is blinking steadily to indicate sensor adjustment is complete.
7. Press either SW602 or SW603.
8. Wait until LED601 is not lit and LED602 is blinking steadily to indicate the sensor adjustment is complete.
9. Turn the product power off.
10. Return all of the switches on SW601 to the OFF position.

Figure 1-1060 SW601 sensor adjustment settings