

Installation Instructions

This kit includes the parts and documentation necessary to install the RFID Assembly Option/Maintenance Kit into the following printers:

- ZT411
- ZT421

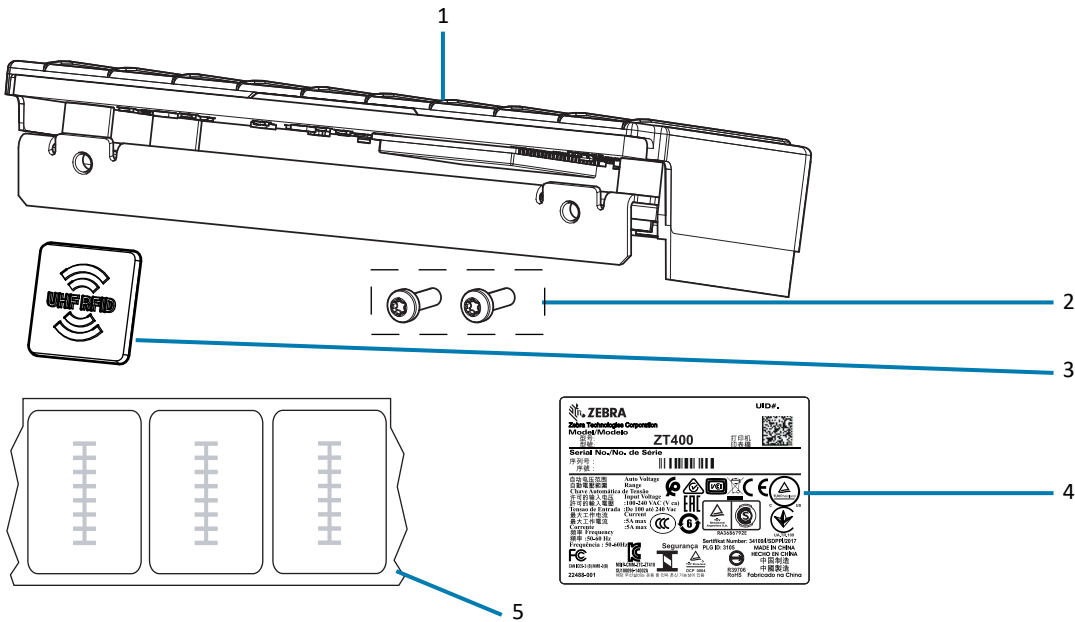
Read these instructions thoroughly before attempting to install this kit.



NOTE: Retain all parts removed during disassembly, unless otherwise directed.

Parts List

Before proceeding, verify that your kit contains the following items. To reorder specific parts, navigate to zebra.com/parts, and select your printer model.



Item	Description	Qty
1	RFID Assembly	1
2	Screw, M3 × 0.5 × 10	2
3	Name Plate (for option kit use only)	1
4	Label (for option kit use only)	1
5	RFID test labels	3

Tools Required

Metric Hexalobular keys or bits

Prepare for Installation



CAUTION: Turn off (O) the printer and disconnect it from the power source before performing the following procedure.



CAUTION—ESD: Observe proper electrostatic safety precautions when handling static-sensitive components such as circuit boards and printheads.

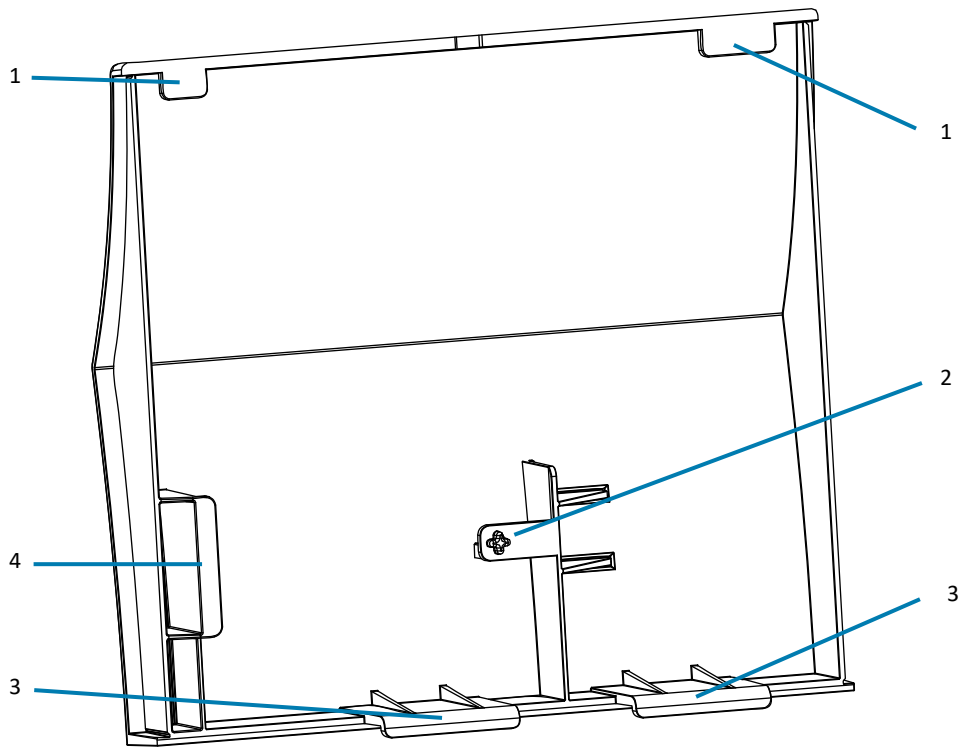
- 1. Remove the media and ribbon from the printer.
- 2. Which printer option do you have?

If...	Then...
Standard (tear)	Go to Remove the Lower Front Trim Panel .
Peel/Rewind	Go to Remove the Peel Assembly on page 5 .
Cutter	Go to Remove the Cutter Assembly on page 7 .

Remove the Lower Front Trim Panel

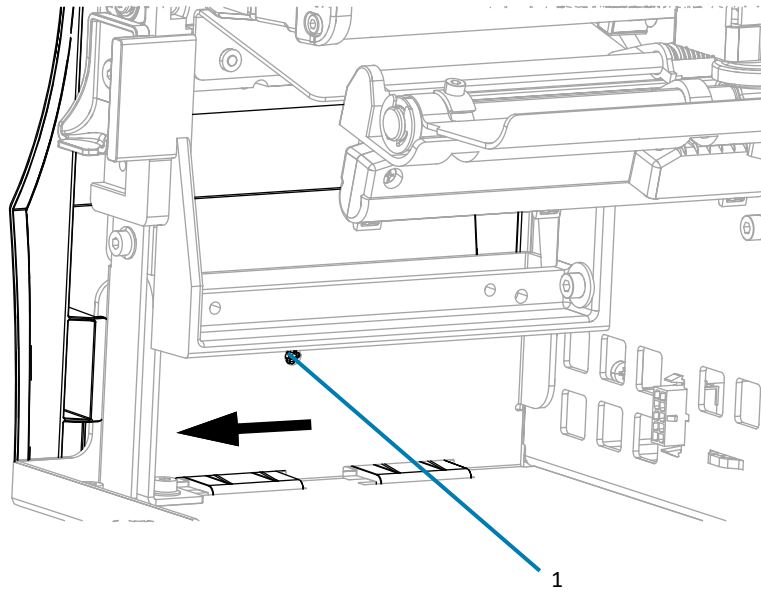
[Figure 1](#) identifies the parts of the lower front trim panel.

Figure 1 Lower Front Trim Panel Components

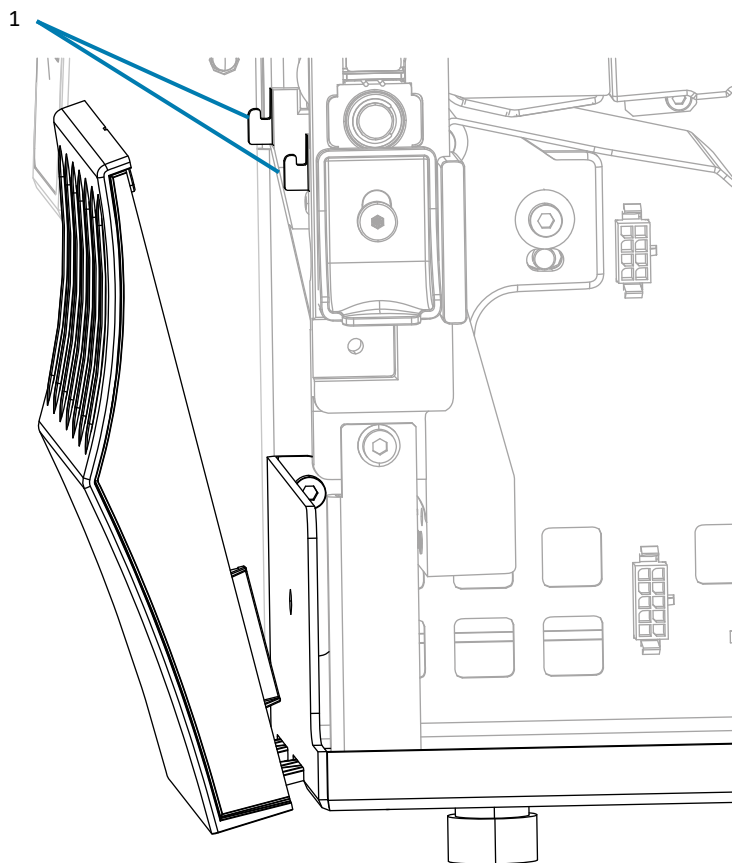


1	Trim panel top tabs
2	Trim panel detent
3	Trim panel lower tabs
4	Trim panel stop

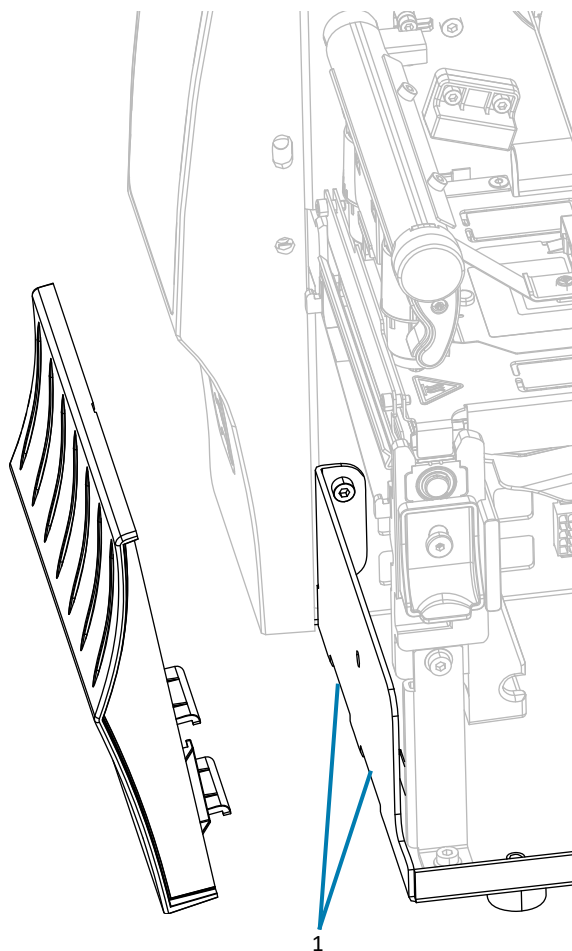
1. Disengage the lower front trim panel by pressing in on the detent (1) and then sliding the panel to the left as far as possible.



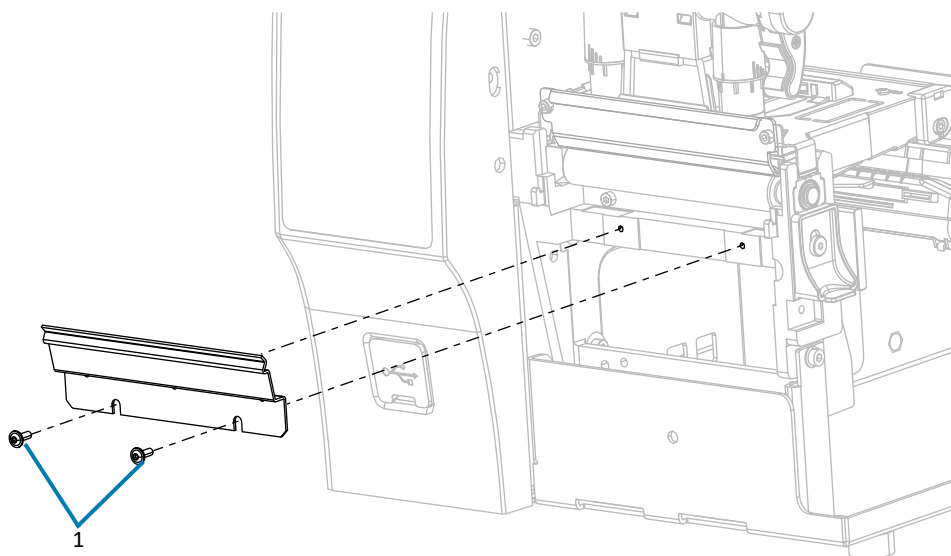
2. Tip the top of the lower front trim panel off the hooks (1) and away from the printer.



3. Slide the lower front trim panel tabs out of the mounting slots (1) on the printer base.



4. Remove the two tear bar mounting screws (1).



5. Remove the tear bar.

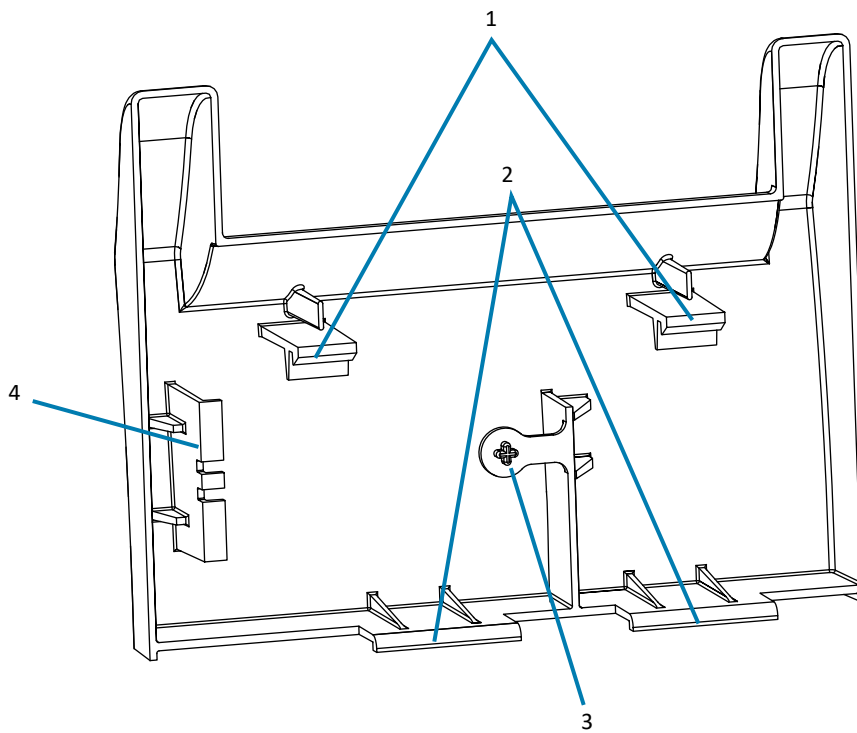
6. Are you replacing an existing RFID assembly?

If...	Then...
Yes	Go to Remove the Old RFID Assembly on page 9.
No	Go to Remove the Media Shelf on page 10.

Remove the Peel Assembly

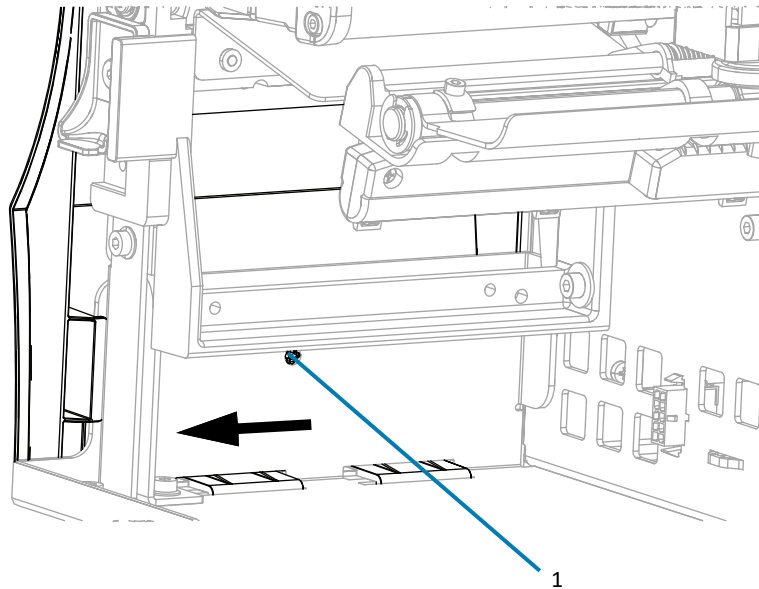
[Figure 2](#) identifies the parts of the peel lower front trim panel.

Figure 2 Peel Lower Front Trim Panel Components

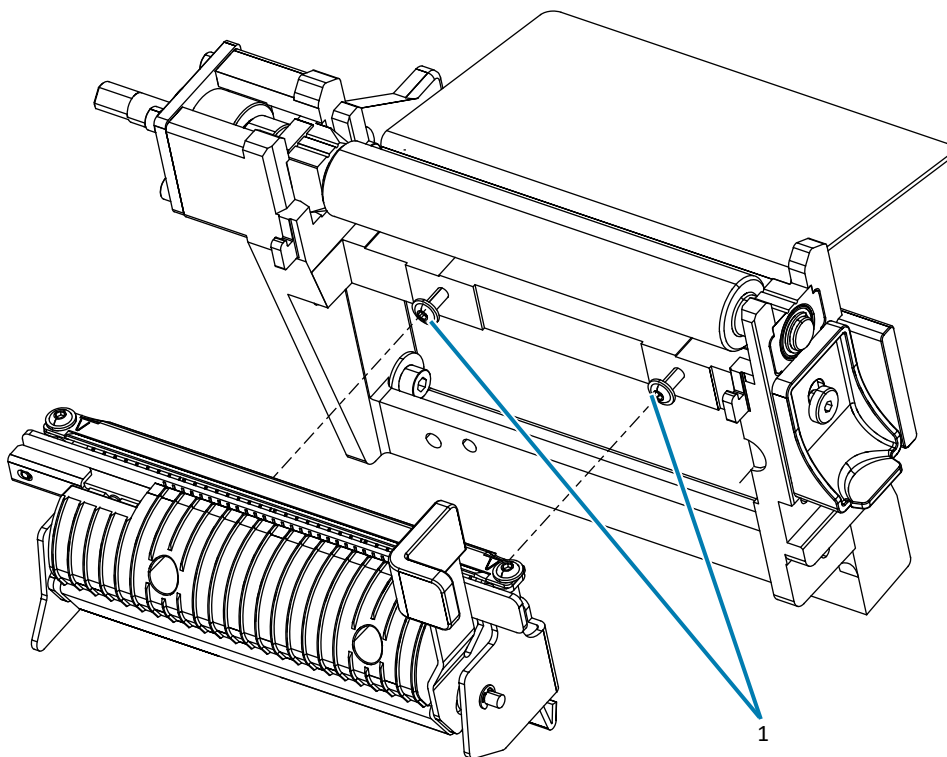


1	Trim panel top tabs
2	Trim panel lower tabs
3	Trim panel detent
4	Trim panel stop

1. Disengage the peel lower front trim panel by pressing in on the detent (1) and then sliding the panel to the left as far as possible.



2. Loosen the two mounting screws (1), and then remove the peel assembly.

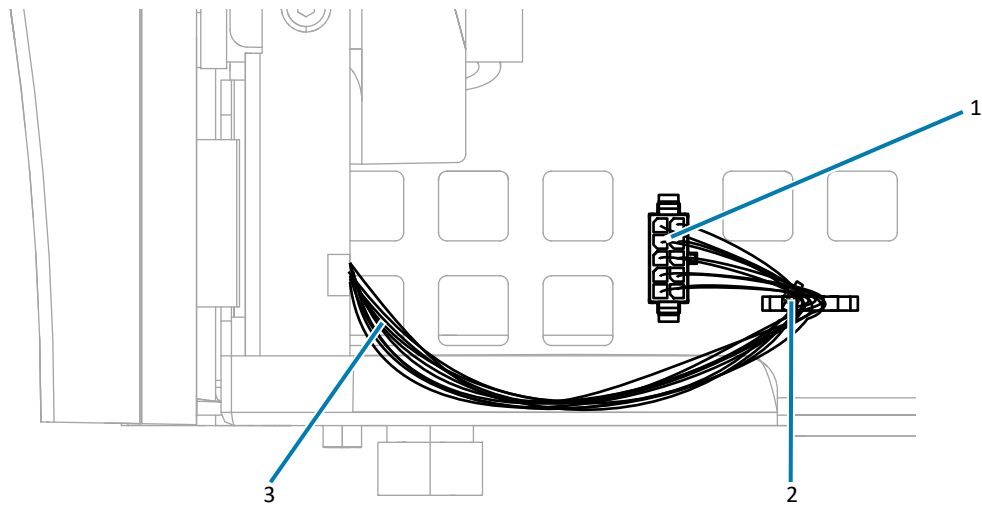


3. Are you replacing an existing RFID assembly?

If...	Then...
Yes	Go to Remove the Old RFID Assembly on page 9.
No	Go to Remove the Media Shelf on page 10.

Remove the Cutter Assembly

1. Disconnect the cutter cable from the ten-pin option connector on the main frame.

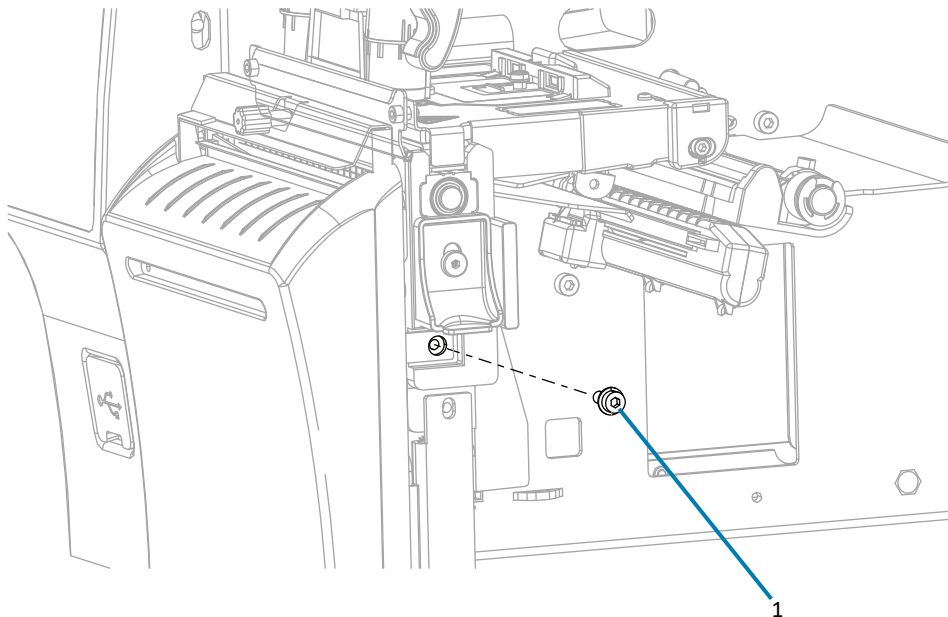


1	Ten-pin option connector
2	Cable tie
3	Cutter cable

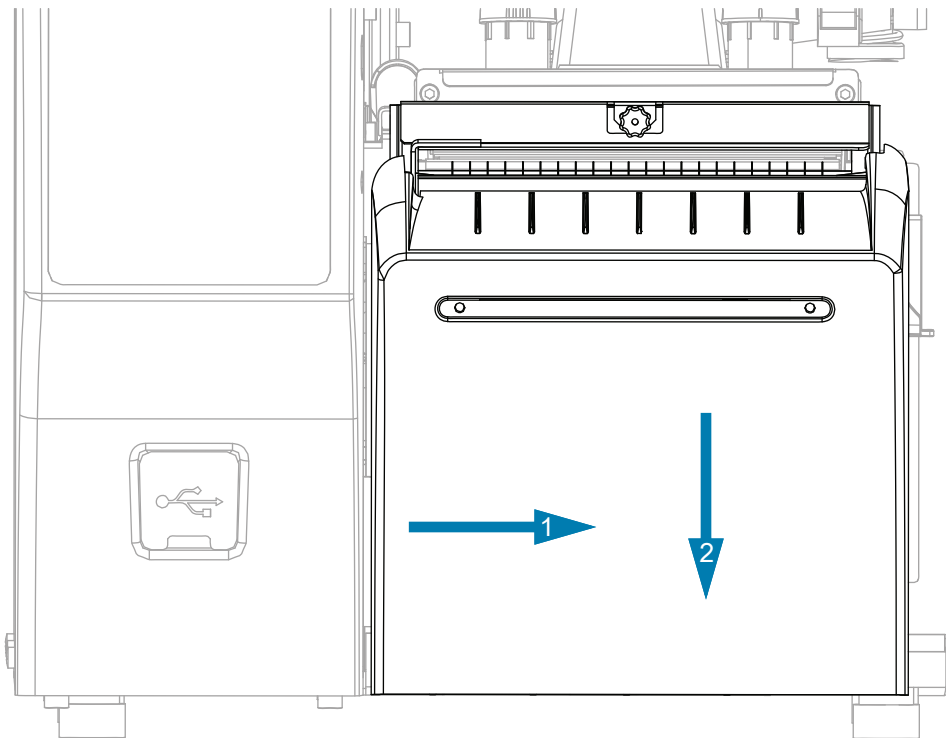


CAUTION—EYE INJURY: Wear protective eyewear when installing or removing E-rings, C-clips, snap rings, springs, and mounting buttons. These are under tension and could fly off.

2. Cut the cable tie.
3. Remove the cutter mounting screw (1).



4. Slide the cutter assembly to the right and then down.

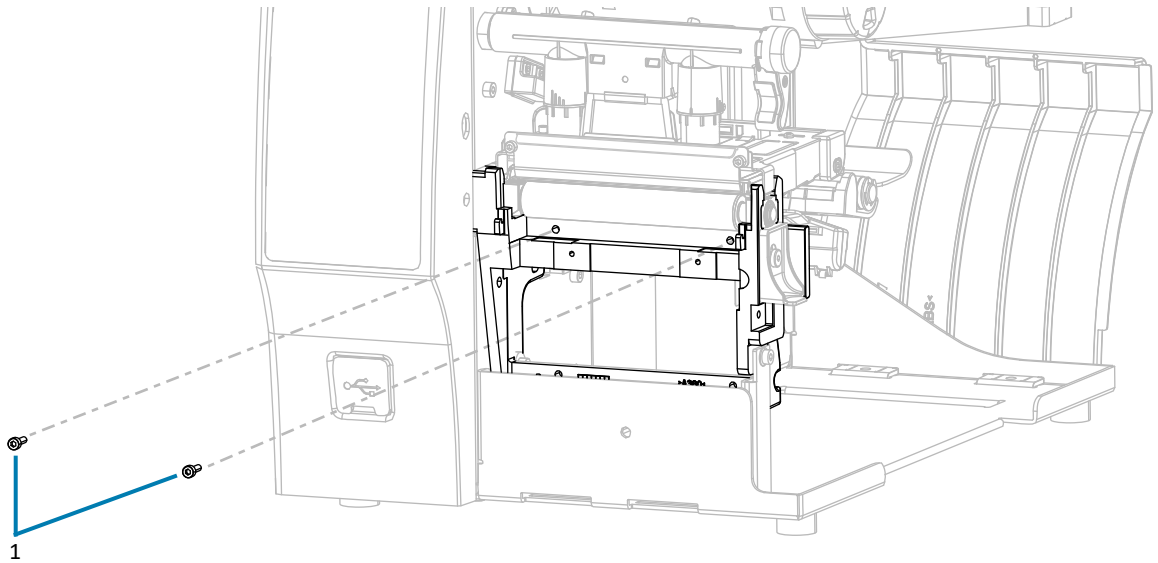


5. Remove the cutter assembly from the platen housing hooks.
6. Are you replacing an existing RFID assembly?

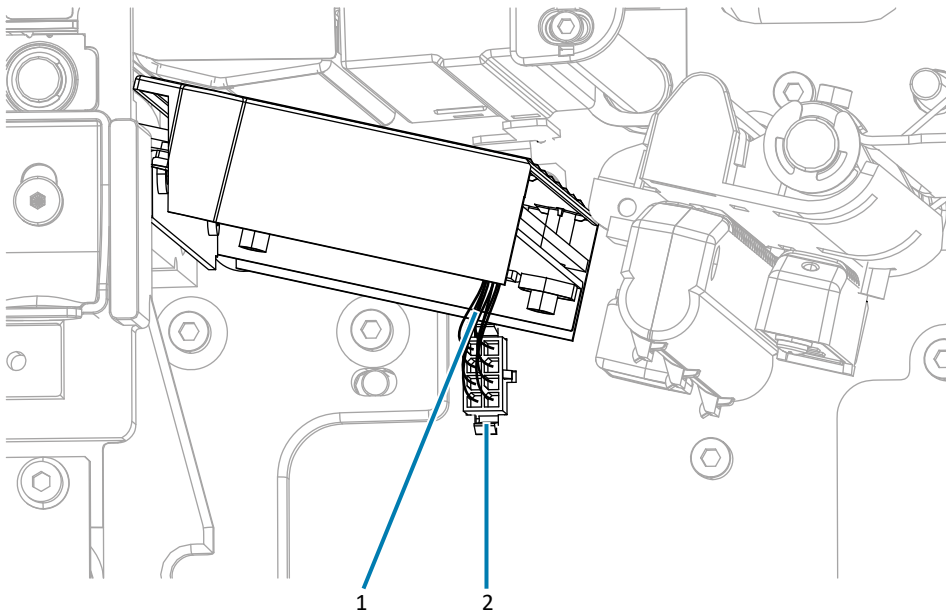
If...	Then...
Yes	Go to Remove the Old RFID Assembly on page 9.
No	Go to Remove the Media Shelf on page 10.

Remove the Old RFID Assembly

1. To access the cable connector, loosen, but do not remove, the two RFID mounting screws (1).



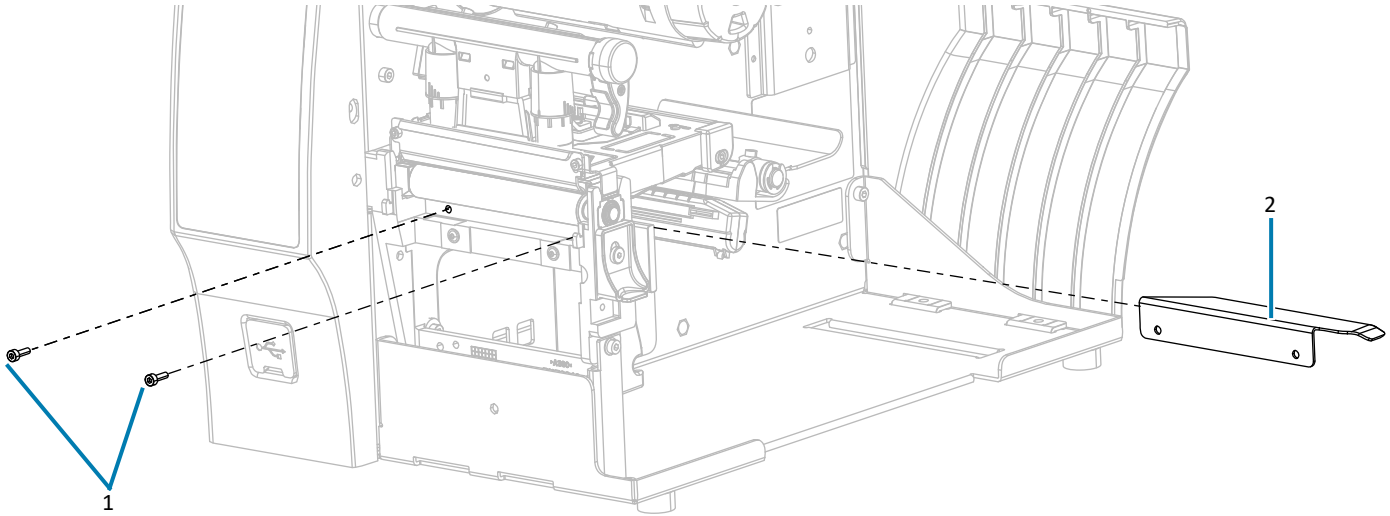
2. Disconnect the RFID cable (1) from the 8-pin connector (2) on the main frame.



3. Remove the two RFID mounting screws that you loosened previously.
4. Guide the old RFID assembly out of the printer.

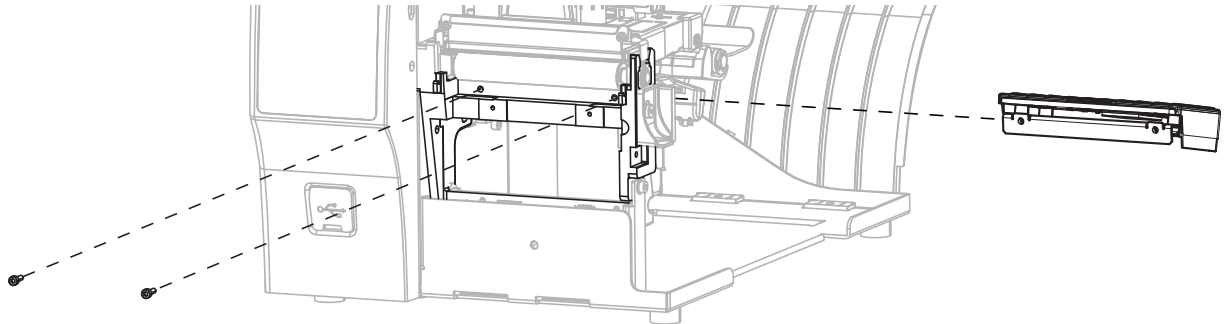
Remove the Media Shelf

1. Remove the two mounting screws (1).
2. Slide the media shelf (2) out of the printer.

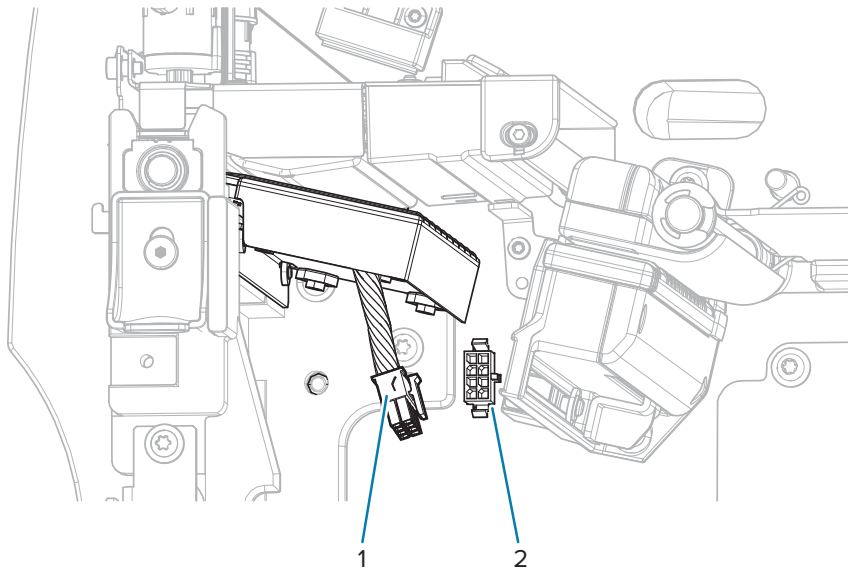


Install the New RFID Assembly

1. Align the mounting holes on the new RFID assembly with the platen housing mounting holes, and then loosely install the two new mounting screws.



2. Connect the RFID cable (1) to the 8-pin connector (2) on the main frame.



3. Tighten the two mounting screws that you loosely installed previously.

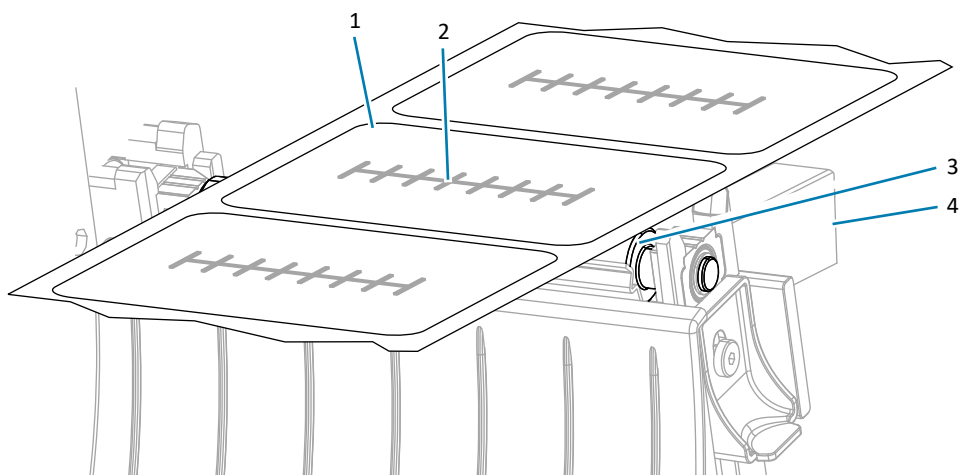
Update Printer Firmware

Your printer needs the latest firmware for the new RFID option to function correctly.

1. Go to zebra.com/zt411-info or zebra.com/zt421-info.
2. Download the firmware to your computer.
3. Upload the firmware to your printer.

Verify the Operation of the RFID Assembly

1. Reconnect the AC power cord.
2. Turn on (I) the printer.
3. Lay the test labels supplied in the kit over the RFID assembly with the RFID transponder at the inside edge of the platen roller.

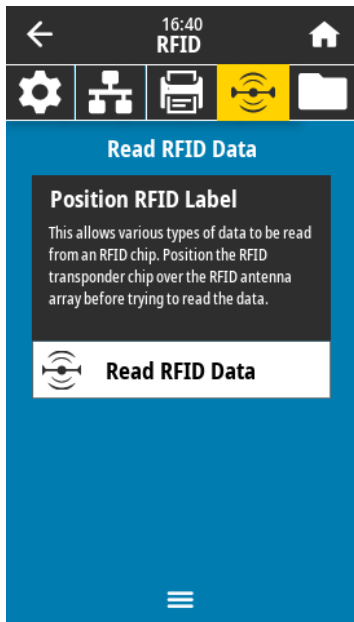


1	Test label
2	RFID transponder
3	Platen roller
4	RFID assembly

4. On the control panel, touch **Menu**.



5. Touch the RFID icon, and then touch **RFID > Read RFID Data**.



6. Does the screen fill with numbers? (No certain sequence is needed.)

If...	Then...
Yes	The RFID assembly is working. Go to step 7 .
No	1. Check all RFID assembly cable connections. 2. Repeat step 5.



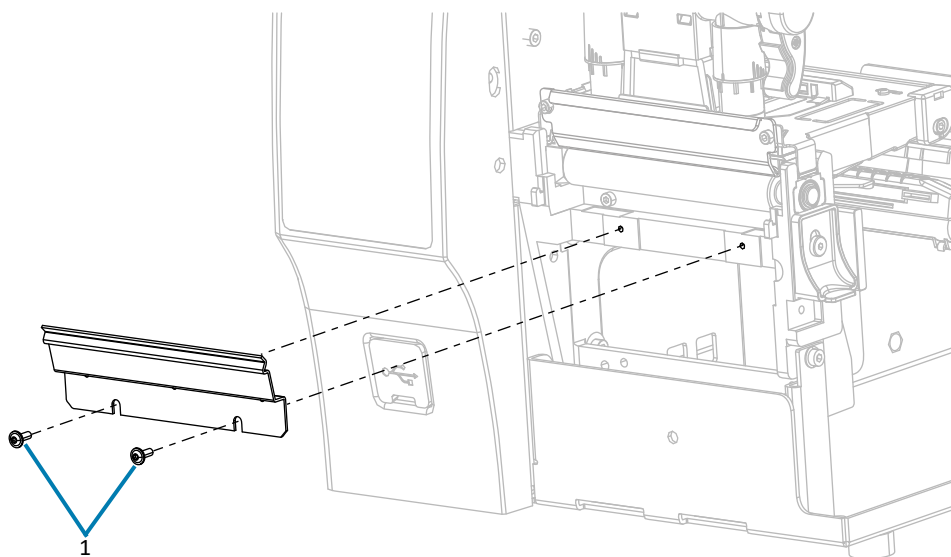
CAUTION: Turn off (O) the printer and disconnect it from the power source before continuing with the procedure.

7. Turn Off the printer.
8. Unplug the AC power cord.
9. Which printer option do you have?

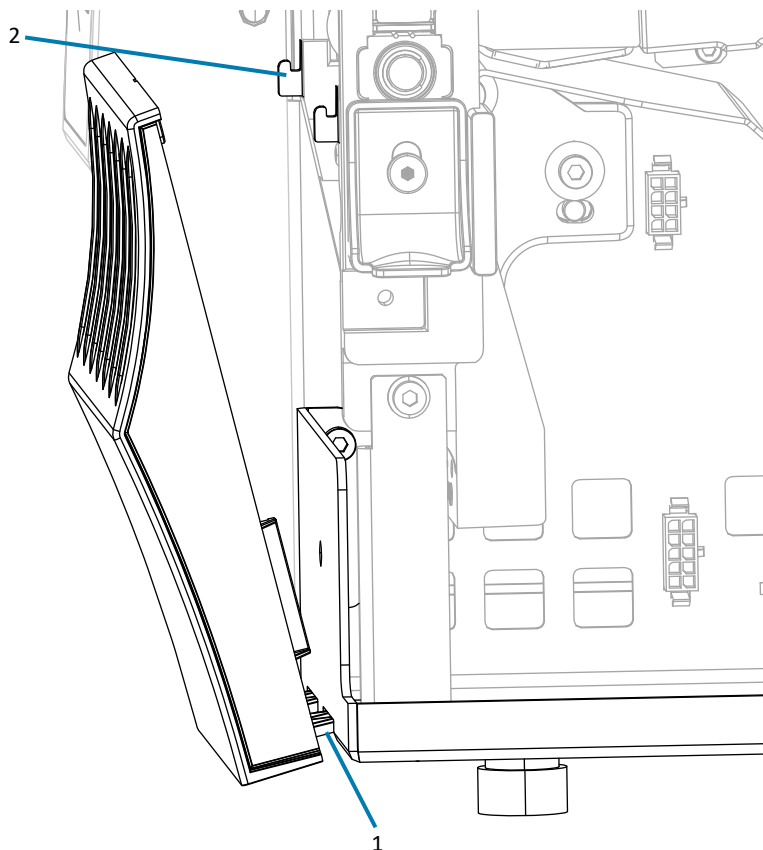
If...	Then...
Standard (tear)	Go to Reinstall the Lower Front Trim Panel on page 14 .
Peel	Go to Reinstall the Peel Assembly on page 16 .
Cutter	Go to Reinstall the Cutter Assembly on page 18 .

Reinstall the Lower Front Trim Panel

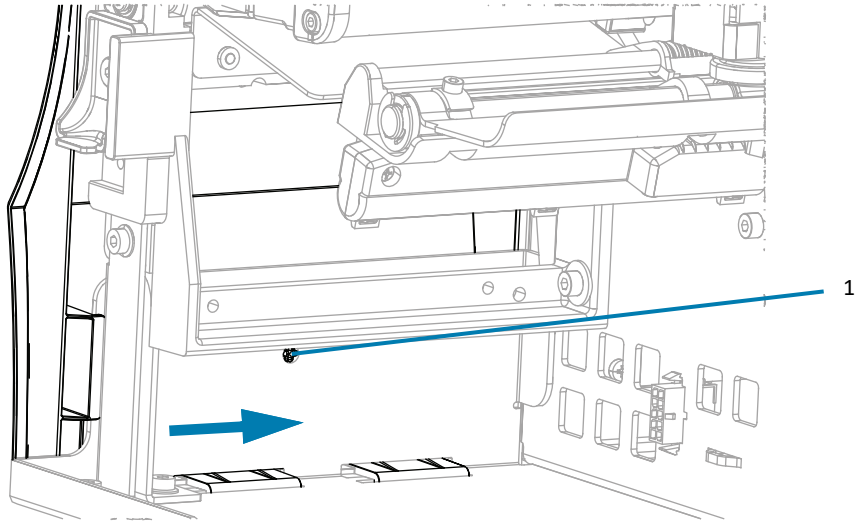
1. Reinstall the tear bar using the two tear bar mounting screws (1).



2. Attach the lower front trim panel.
 - a. Slide the tabs (1) of the lower front trim panel into the slots on the printer base.
 - b. Lift the top of the lower front trim panel up and onto the platen housing hooks (2).



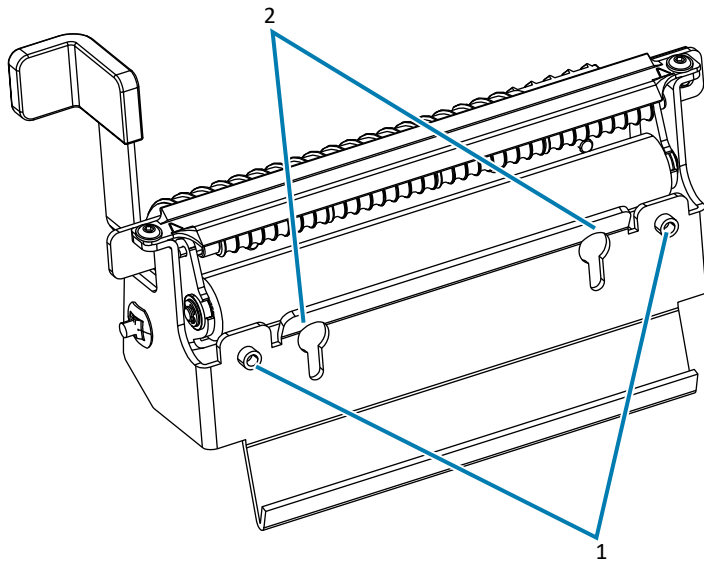
3. Slide the lower front trim panel to the right until the detent (1) pops into the detent hole.



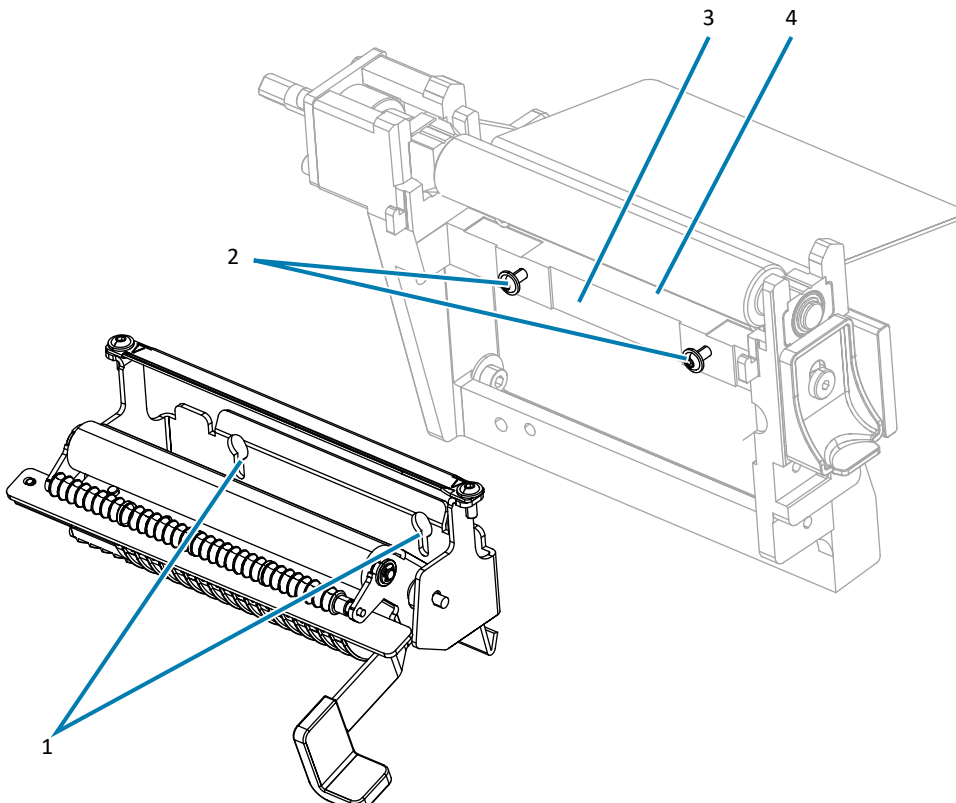
4. Go to [Complete the Installation on page 22](#).

Reinstall the Peel Assembly

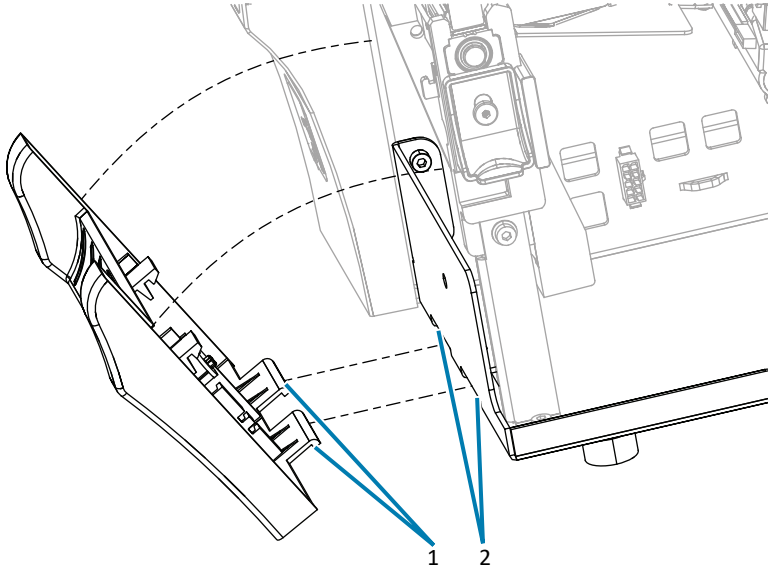
1. Note the location of the pems (1) and the mounting slots (2) on the rear of the peel assembly.



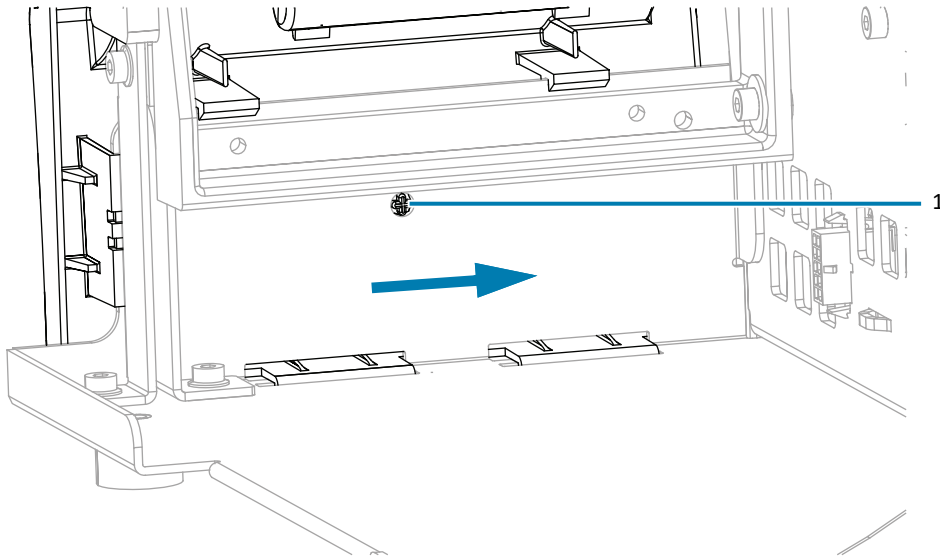
2. Install the peel assembly with the pems to the rear and the opening in the mounting slot to the top.
 - a. Insert the mounting slots (1) over the two mounting screws (2) and lift up on the assembly.
 - b. Push the assembly back against the vertical surface (3) of the platen housing, and then down, so that the pems are resting on the horizontal surface (4) of the platen housing.



3. While maintaining a slight pressure downward on the peel assembly to keep the pems on the horizontal surface, tighten the mounting screws.
4. Slide the lower tabs (1) of the peel lower front trim panel into the printer base mounting slots (2) and then rotate the trim panel upward.



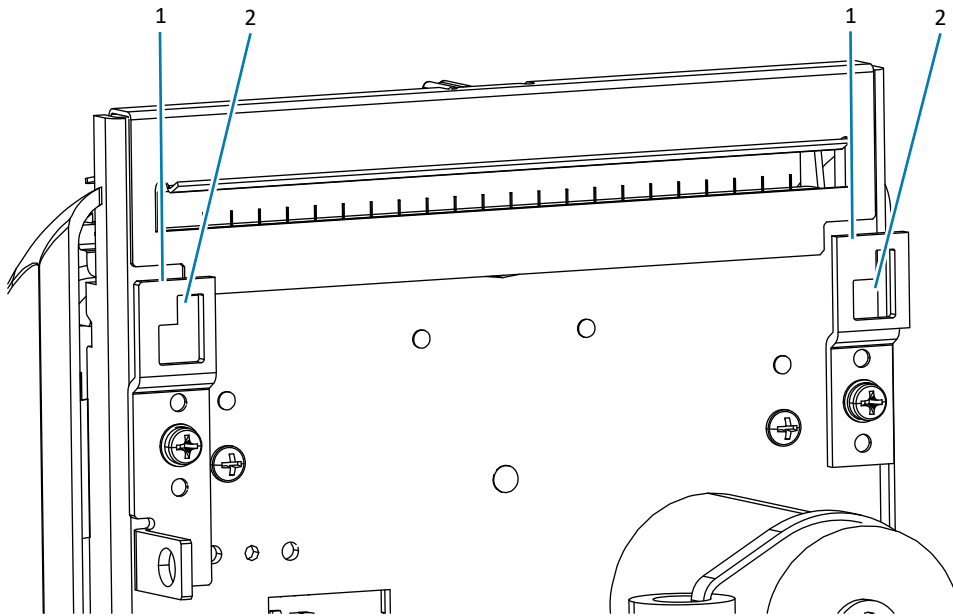
5. Slide the peel lower front trim panel toward the printer until it stops and the detent (1) snaps into the detent hole.



6. Go to [Complete the Installation on page 22](#).

Reinstall the Cutter Assembly

Figure 3 Cutter Mounting Brackets

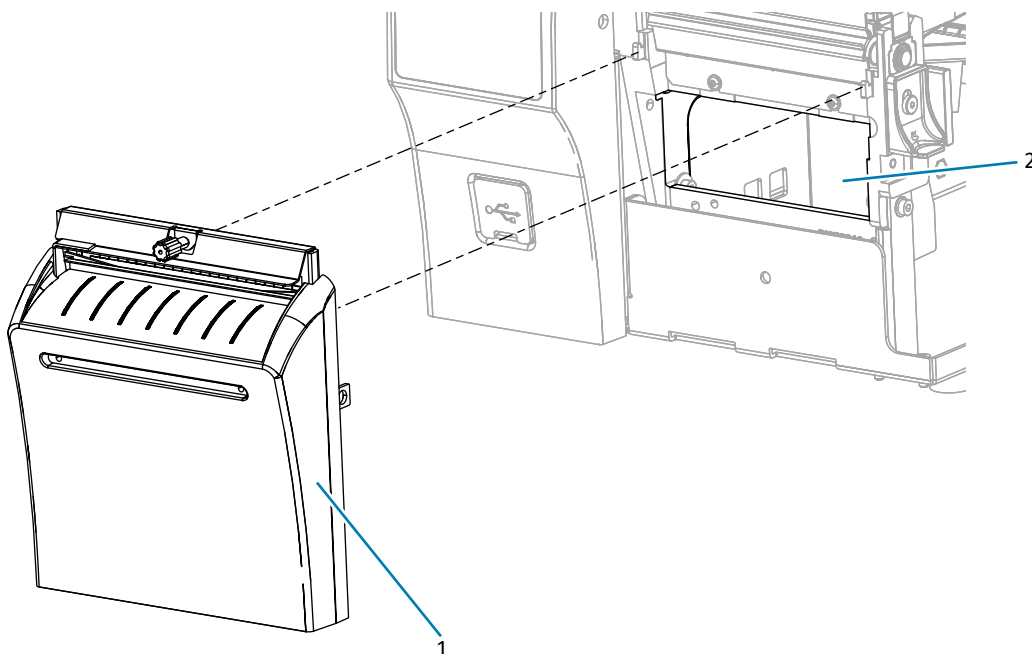


1	Mounting bracket
2	Stepped slot

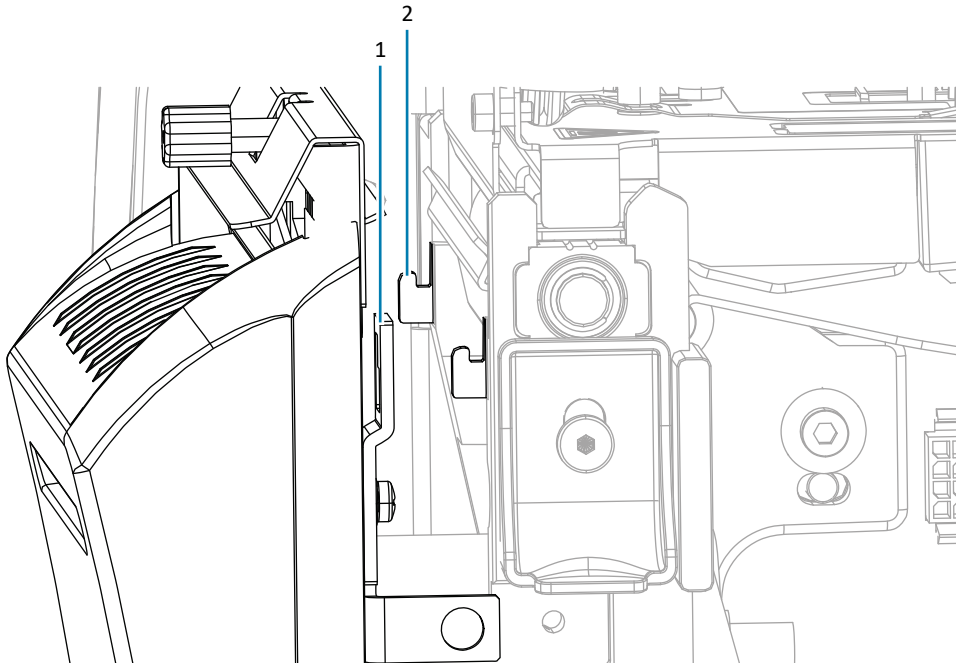


CAUTION: The cutter blade is sharp. Do not touch or rub the blade with your fingers.

1. While holding the cutter assembly (1), route the cutter cable (not shown) through the access hole (2) and into the media side of the printer.

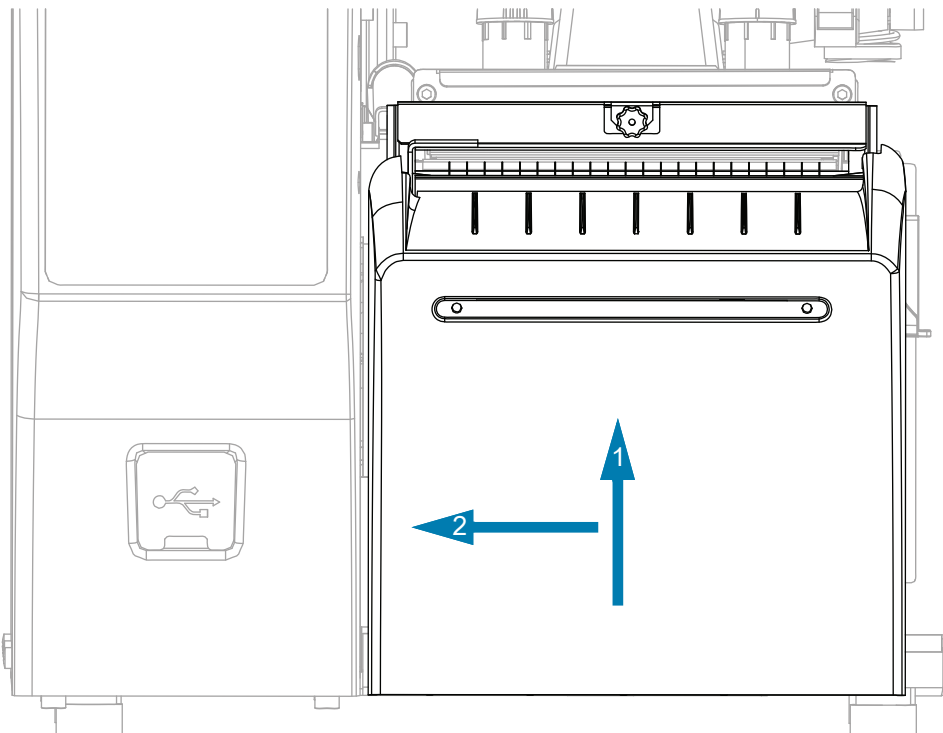


2. Align the upper part of the stepped slots on the cutter mounting brackets with the hooks on the platen housing.

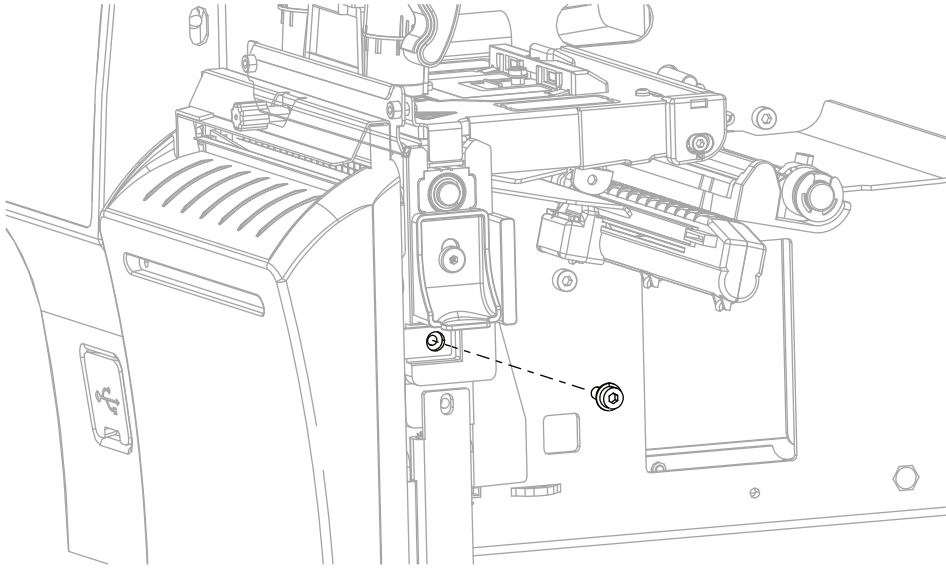


1	Cutter mounting brackets (2)
2	Platen housing hooks (2)

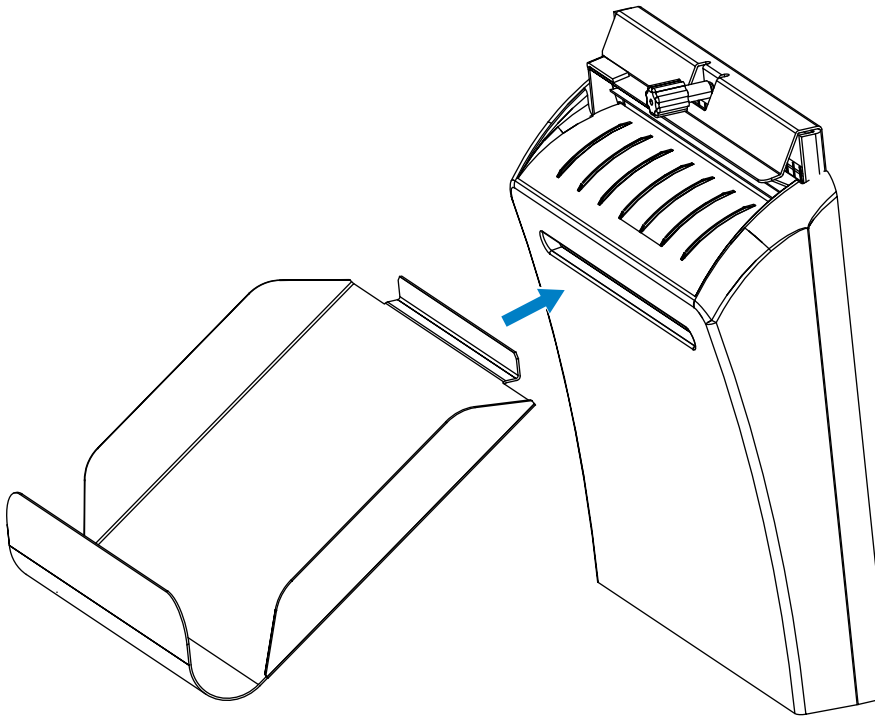
3. Set the cutter assembly onto the hooks, then lift the assembly and slide it to the left.



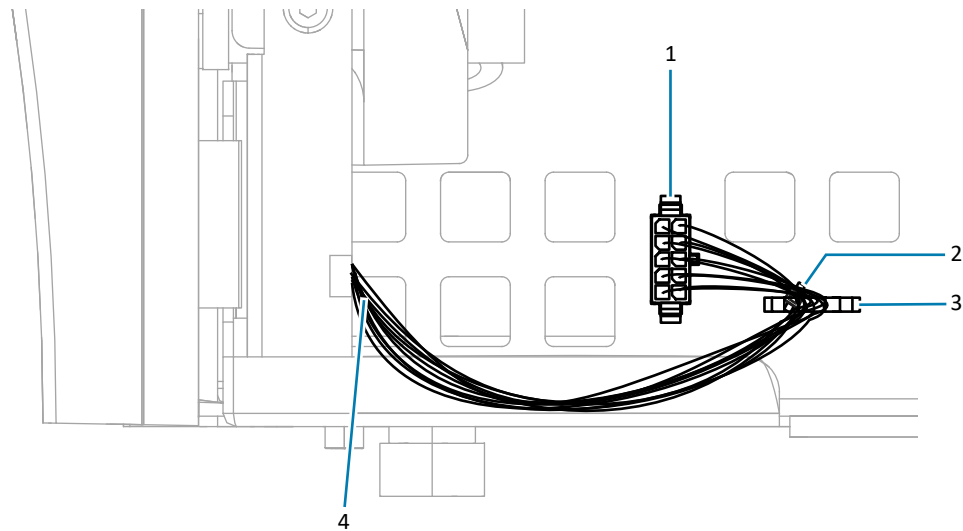
-
4. Secure the cutter assembly onto the platen assembly using the mounting screw previously removed.



5. Insert the cutter catch tray into the front mounting slot of the cutter assembly.



6. Locate the 10-pin option connector on the printer main frame.

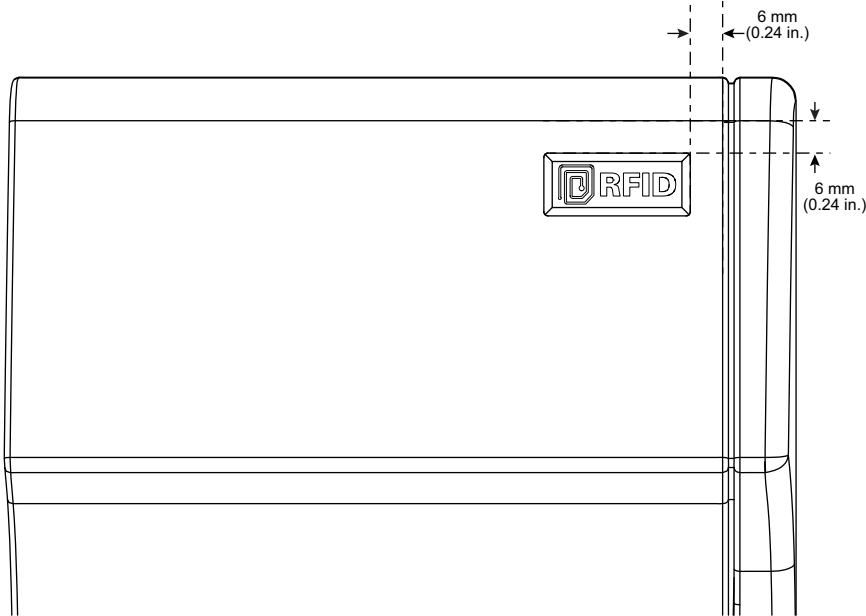
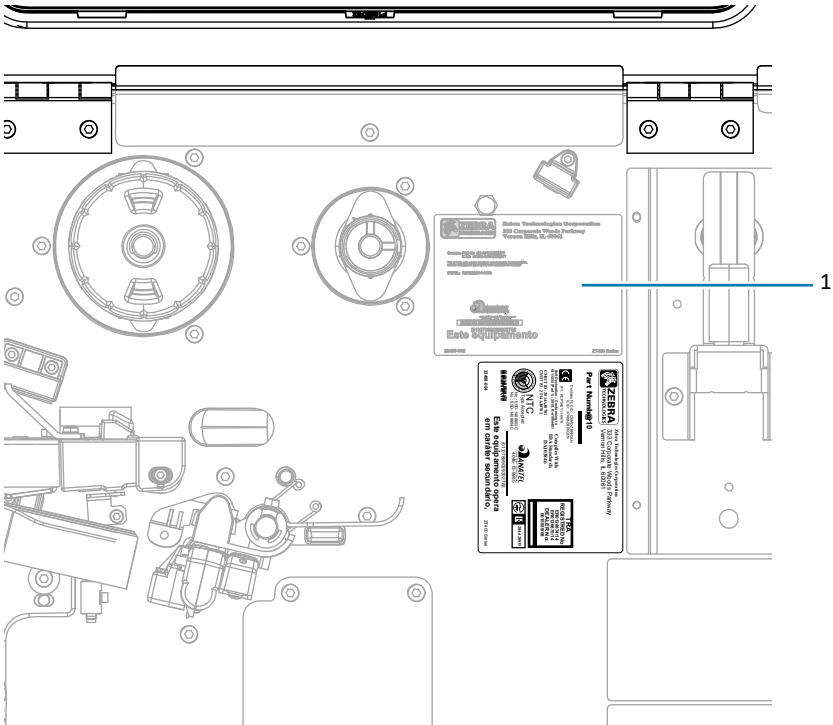


1	Ten-pin option connector
2	Cable tie
3	Printer tie point
4	Cutter cable

7. Connect the cutter cable to the 10-pin option connector.
8. Install a cable tie through the printer tie point and around the cutter cable.

Complete the Installation

Are you installing this kit as an option?

If...	Then...
No	Go to Resume Printer Operation on page 23 .
Yes	1. On the front of the printer, install the name plate on the upper right corner as shown.  2. Install the label from the kit in the location shown (1). 

Resume Printer Operation

1. Reinstall media and ribbon (if used).
2. Close the media door.
3. Reconnect the AC power cord and interface cables, and then turn on the printer power.
4. If necessary, press **PAUSE** to resume printer operation.

The installation is complete.