



# Printhead Maintenance Kit

## Installation Instructions

This kit includes the parts and documentation necessary to install a printhead into the Xi4™, 105SLPlus™ printers and the ZE500™ series print engines.

Read these instructions thoroughly before attempting to install this kit.



**Note** • For optimal printing quality and proper printer performance across our product line, Zebra strongly recommends the use of genuine Zebra™ supplies as part of the total solution. Specifically, the Xi4, 105SLPlus, and ZE500 are designed to work only with genuine Zebra™ printheads, thus maximizing safety and print quality.

## Parts List

Each kit contains only one printhead and these installation instructions.

Figure 1 • Kit Contents

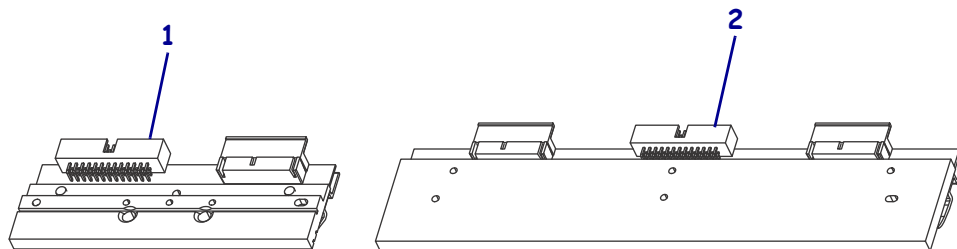


Table 1 • Kit Parts List

✓	Item	Qty	Part Number	Description
	1	1	P1004230	Printhead Kit 110Xi4, R110Xi4 (203 dpi)
	1	1	P1053360-018	Printhead Kit 105SLPlus (203 dpi)
	1	1	P1046696-099	Printhead Kit ZE500-4 (203 dpi)
	1	1	P1004232	Printhead Kit 110Xi4 and R110Xi4 (300 dpi)
	1	1	P1053360-019	Printhead Kit 105SLPlus (300 dpi)
	1	1	P1046696-016	Printhead Kit ZE500-4 (300 dpi)
	1	1	P1004233	Printhead Kit 110Xi4 (600 dpi)
	1	1	P1004234	Printhead Kit 140Xi4 (203 dpi)
	1	1	P1004236	Printhead Kit 170Xi4, ZE500-6 (203 dpi)
	1	1	P1004237	Printhead Kit 170Xi4, ZE500-6 (300 dpi)
	2	1	P1004238	Printhead Kit 220Xi4 (203 dpi)
	2	1	P1004239	Printhead Kit 220Xi4 (300 dpi)

## Tools Required



**Tools** • You need these tools to complete this procedure:

- Flatblade Screwdriver Set
- Antistatic Mat and Wrist Strap
- 47362\* Zebra Preventive Maintenance Kit

\* In place of the Preventive Maintenance Kit, you may use a clean swab dipped in a solution of isopropyl alcohol (minimum 90%) and deionized water (maximum 10%).



**Note** • For the best print quality, replace the platen roller when you replace the printhead.



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**Caution** • Turn off (O) the printer/print engine and disconnect it from the power source before performing the following procedure.

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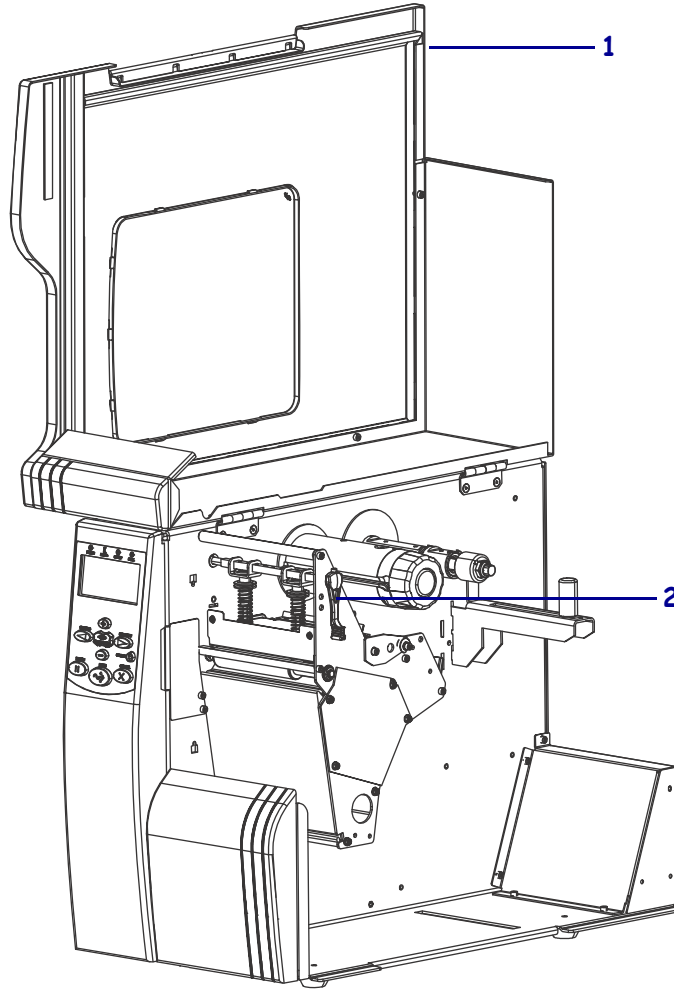
Which model are you working on?

If you have a	Then...
Xi4 105SLPlus	Go to <a href="#">Remove the Xi4 and 105SLPlus Printhead on page 3.</a>
ZE500	Go to <a href="#">Remove the ZE500 Printhead on page 7.</a>

## Remove the Xi4 and 105SLPlus Printhead

1. See [Figure 2](#). Open the media door.

Figure 2 • Open the Media Door (Xi4 shown)



1	Media door
2	Printhead-open lever

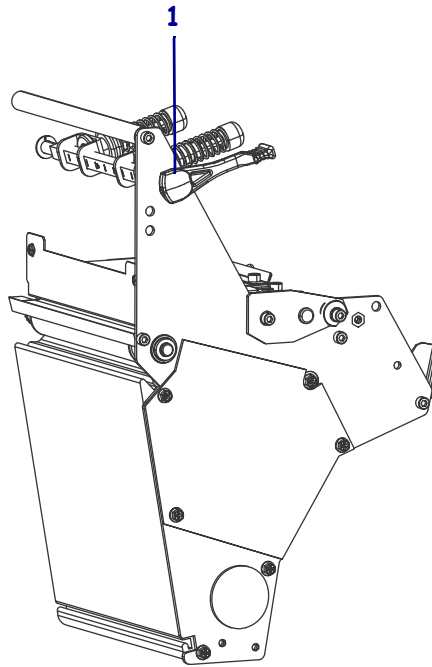
## 4 | Printhead Maintenance

Remove the Xi4 and 105SLPlus Printhead

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2. **Caution** • While performing any tasks near an open printhead, remove all rings, watches, hanging necklaces, identification badges, or other metallic objects that could touch the printhead.
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See [Figure 3](#). Open the printhead assembly by rotating the printhead-open lever to the open position. Remove the media and ribbon, and then close the printhead assembly by rotating the head control lever to the close position.

**Figure 3 • Turn the Printhead-Open Lever to Open the Printhead Assembly (Xi4 shown)**



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- |   |  |
|---|--|
| 1 | Printhead-open lever in open position. |
|---|--|
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3. **Caution** • Observe proper electrostatic safety precautions when handling static-sensitive components such as circuit boards and printheads.
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Connect yourself to an antistatic device.

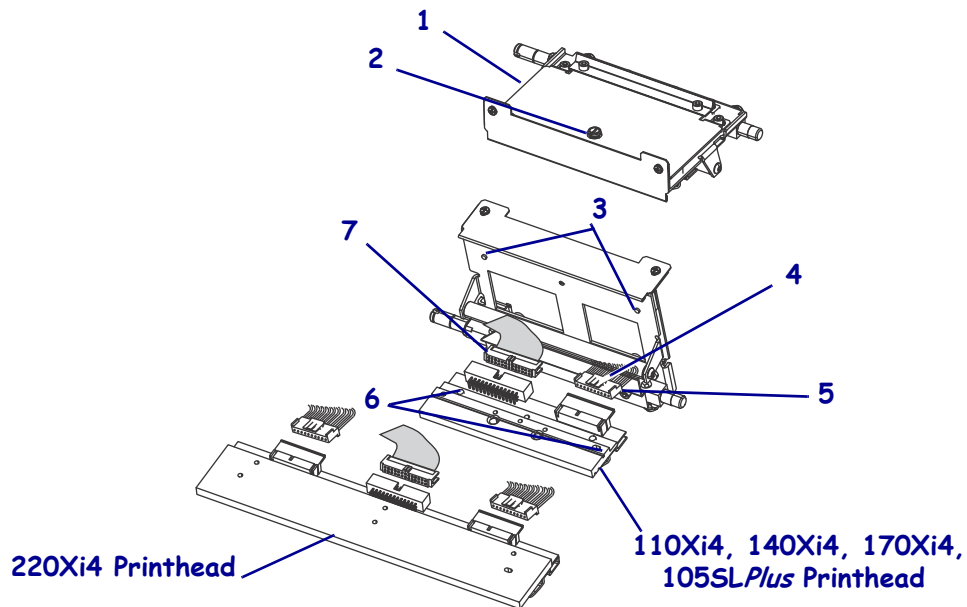
- See [Figure 4](#). Locate the mounting screw on top of the printhead assembly. Loosen the mounting screw until the printhead comes loose.



- Caution** • The printhead may be hot and could cause severe burns. Allow the printhead to cool.

Slowly open the printhead assembly. The printhead will rest on the platen while the rest of the assembly pivots out of the way.

**Figure 4 • Replace Printhead**



1	Printhead mechanism assembly
2	Printhead mounting screw
3	Printhead alignment posts
4	Power cable locking tab
5	Printhead power cable connector
6	Printhead alignment slots
7	Printhead data cable connector

- Disconnect the printhead data cable.



**Note** • There are two power connectors on the 220Xi4.

- Grasp the outside edges of the printhead power cable connector and then press down on the power cable locking tab.
- While maintaining pressure on the locking tab, disconnect the printhead power cable.
- Remove the printhead.

## Install the New Xi4 and 105SLPlus Printhead



1. **Caution** • An improperly connected printhead data or power cable may cause the printhead to generate excessive heat and/or a false HEAD COLD message to display while the printhead is hot enough to cause severe burns.

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Connect the printhead power cable to the proper connectors.



**Note** • For the 220Xi4, repeat this step for the other printhead power cable connector.

2. Connect the printhead data cable.
3. Carefully position the alignment slots of the new printhead with the alignment posts on the mounting bracket.
  - Make sure the cables are in their proper channels and are not binding.
  - Ensure that the two locating posts on either side of the mounting plate slip into the locating holes of the printhead assembly.
  - Make sure the printhead mounting screw is properly aligned, and then tighten it.
4. Clean the new printhead elements using Zebra's Preventive Maintenance Kit part number 47362. In place of the Preventive Maintenance Kit, you may use a clean swab dipped in a solution of isopropyl alcohol (minimum 90%) and deionized water (maximum 10%).
5. **Caution** • When you are loading media or ribbon, remove all jewelry that could come into contact with the printhead or other printer parts.

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Reinstall the media and ribbon.

6. Reconnect the AC power cord and data cables.
7. Press and hold PAUSE while turning on (I) the printer.
8. Press PAUSE to pause the printer and check the labels for proper print quality. If the print quality is not acceptable, refer to the User Guide or the Maintenance Manual.

**The installation is complete.**

## Remove the ZE500 Printhead

1. **Caution** • While performing any tasks near an open printhead, remove all rings, watches, hanging necklaces, identification badges, or other metallic objects that could touch the printhead.

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Remove the media and ribbon.



2. **Caution** • The printhead may be hot and could cause severe burns. Allow the printhead to cool.

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Slide the printhead toggles away from the printhead mounting screw area.



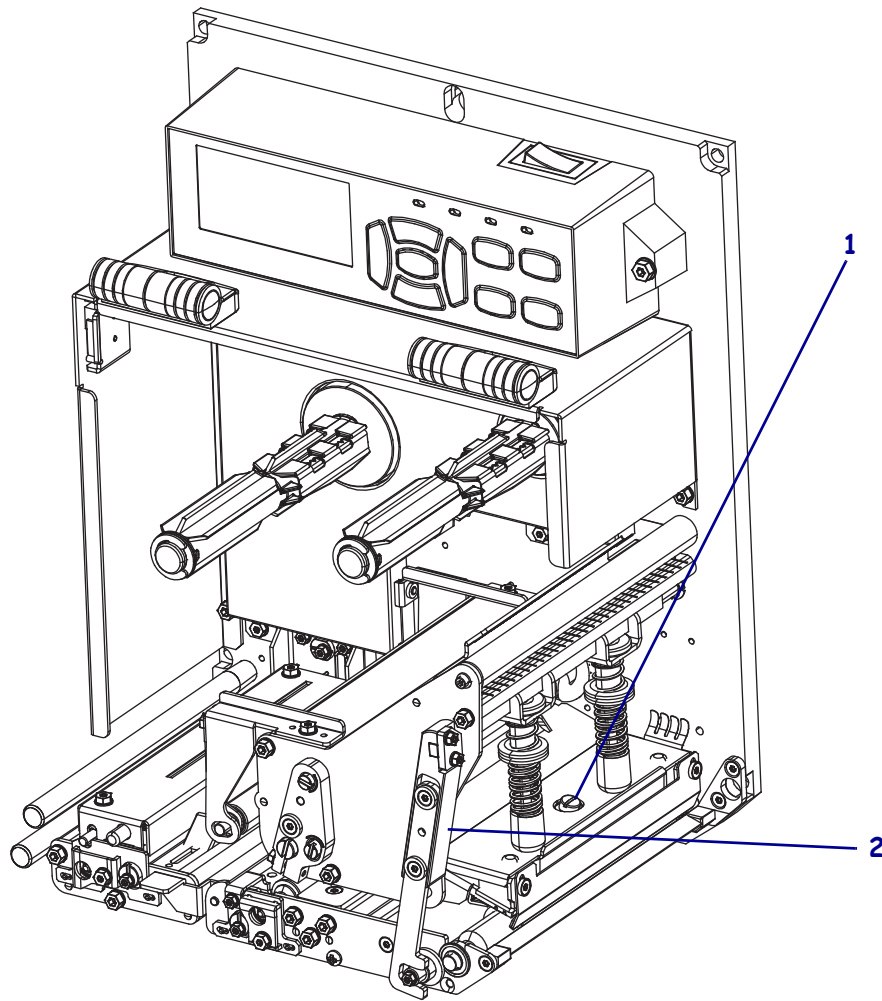
3. **Caution** • Before touching the printhead assembly, discharge any built-up static electricity by touching the metal printer frame or by using an anti-static wriststrap and mat.

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See [Figure 5](#). Loosen the printhead mounting screw and then lift the printhead-open lever.

**8 | Printhead Maintenance**  
Remove the ZE500 Printhead

**Figure 5 • Loosen the Printhead**

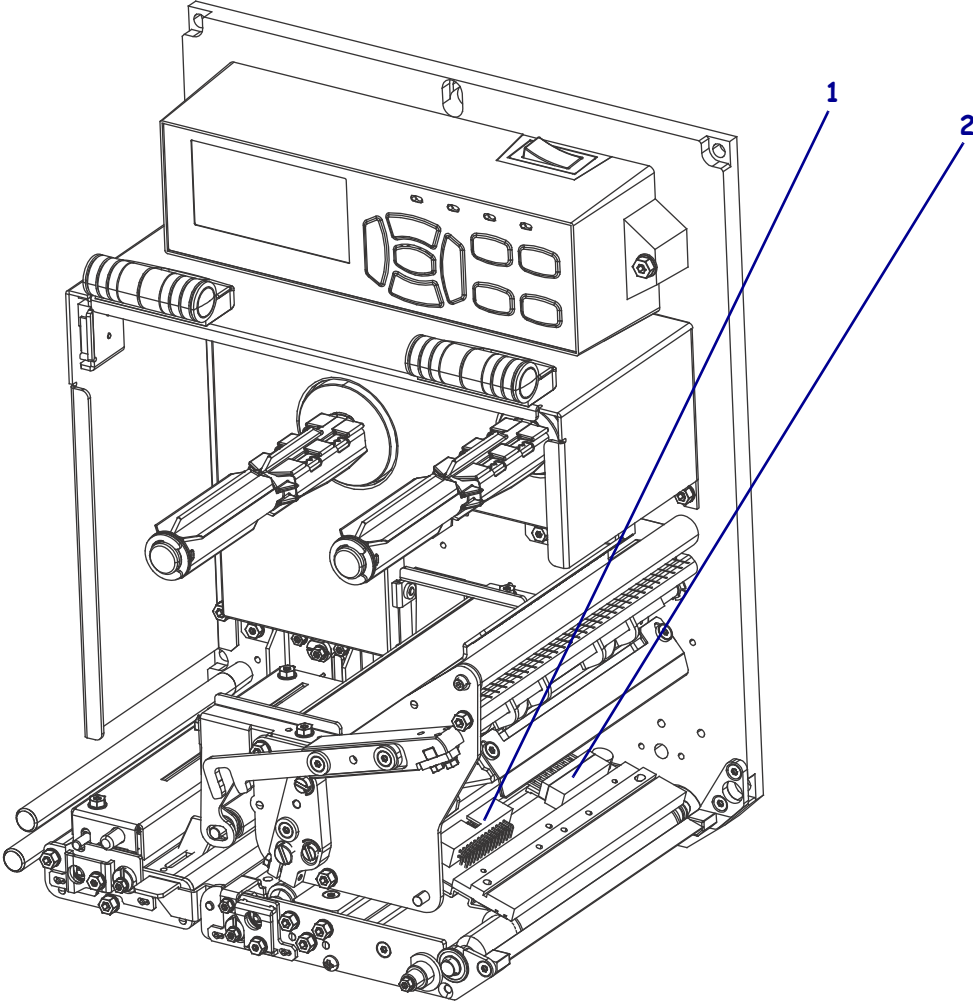


<b>1</b>	Printhead mounting screw
<b>2</b>	Printhead-open lever



4. See [Figure 6](#). While supporting the printhead, disconnect the power cable connector and the printhead data cable connector.

Figure 6 • Remove the Printhead



1	Printhead data cable connector
2	Printhead power cable connector

## Install the ZE500 Printhead

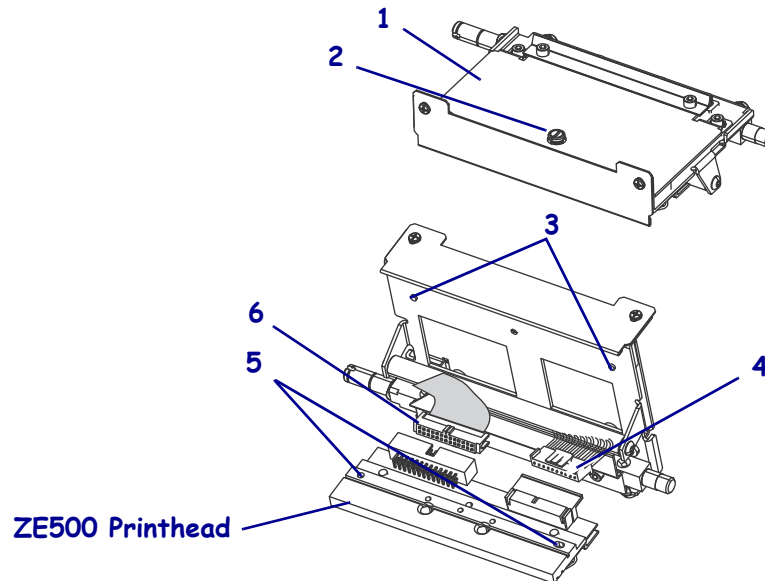


1. **Caution** • An improperly connected printhead data or power cable may cause the printhead to generate excessive heat and/or a false HEAD COLD message to display while the printhead is hot enough to cause severe burns. Allow the printhead to cool.

See [Figure 7](#). Reconnect the printhead power cable and the printhead data cable to their appropriate connectors on the printhead. Seat both connectors firmly in place.

2. Fit the printhead into the mounting bracket by aligning the printhead alignment posts into the printhead alignment slots.

**Figure 7 • Printhead and Bracket Alignment**

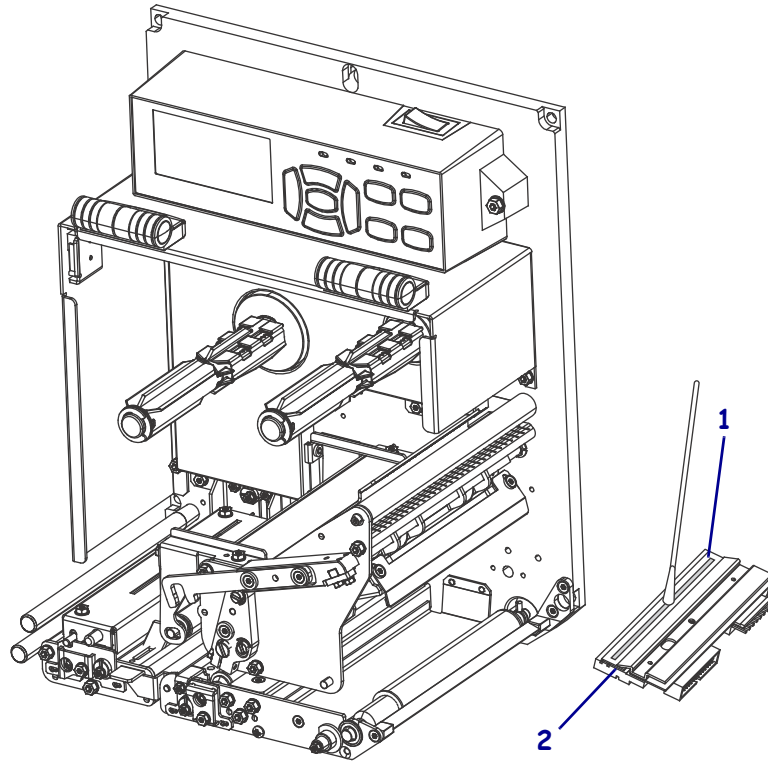


1	Printhead mechanism assembly
2	Printhead mounting screw
3	Printhead alignment posts
4	Printhead power connector
5	Printhead alignment slots
6	Printhead data connector

3. Verify that the printhead is seated properly.
4. Carefully guide the printhead mounting screw into the printhead's aluminum body. After the screw is aligned properly, tighten it until snug.  
Do not over-tighten.

- See [Figure 8](#). Clean the new printhead elements using Zebra's Preventive Maintenance Kit, part number 47362. In place of the Preventive Maintenance Kit, you may use a clean swab dipped in a solution of isopropyl alcohol (minimum 90%) and deionized water (maximum 10%).

**Figure 8 • Cleaning the Printhead**



<b>1</b>	Printhead elements (gray area)
<b>2</b>	Printhead

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6. **Caution** • When you are loading media or ribbon, remove all jewelry that could come into contact with the printhead or other printer parts.
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Reinstall the media and ribbon.

7. Ensure that the printhead toggles are positioned evenly across the width of the media.
8. Close the media cover.
9. Reconnect the AC power cord and data cables.
10. Press and hold PAUSE while turning on (I) the print engine.
11. Press PAUSE to pause the printer and check the labels for proper print quality. If the print quality is not acceptable, refer to the *User Guide* or the *Maintenance Manual*.

**The installation is complete.**