



ZebraNet[®] Internal Wireless Plus Print Server for 105SL[™] and XiIIIPlus[™]

Installation Instructions

This kit includes the parts and documentation necessary to install the ZebraNet[®] Internal Wireless Plus Print Server into the 105SL[™] and XiIIIPlus[™] printers. Read these instructions thoroughly prior to kit installation.



Caution • A qualified service technician must perform this installation.

Prepare for Installation

Parts List

Before proceeding, verify that your kit contains the items listed below.

Table 1 • Parts List

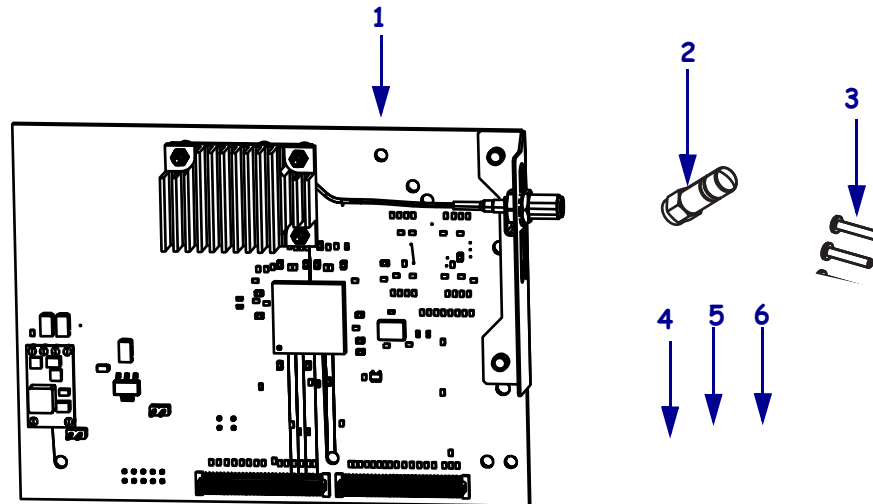
✓	Item	Qty	Part Number	Description
	Ref	1	M	Internal Wireless Plus Print Server Option Maintenance Kit
	1	1	<i>29652-002</i>	Internal Wireless Plus PC Board
	2	1	<i>39538</i>	Antenna
	3	2	<i>45970-010</i>	Screw, M3 (sold in quantities of 25)
	4	2	<i>33291</i>	Spacer
	5	2	<i>78114</i>	Nut
	6	1		Bracket

Bold = Part available for purchase.

Italic = Part not available for purchase; listed and shown for reference only.



Figure 1 • Kit Contents



Reference Materials

The following manuals and CDs may be helpful references while performing this procedure.

- ZebraNet® Wireless User Guide
- 105SL User CD
- 105SL Maintenance Manual CD
- 105SL User Guide
- 105SL Maintenance Manual
- XiIIIPlus Series Maintenance Manual
- XiIIIPlus User Guide
- XiIIIPlus Series User Guide (CD)
- 110XiIIIPlus Maintenance Manual
- Xi Series Maintenance Manual (CD)

Tools Required



Tools • You need these tools to complete this procedure:

- Phillips Screwdriver Set
- Antistatic Wriststrap and Mat
- Metric Nutdriver Set

Prepare the Printer for Installation

1. Check the bottom right corner of the front panel LCD for the firmware version. You need firmware version V60.15.X or higher to operate the ZebraNet Internal Wireless Plus Print Server. If the firmware version number on your printer is lower than this version, download the latest firmware from <http://www.zebra.com>.

Remove the Electronics Cover



Note • Retain all parts removed during disassembly, unless otherwise directed.



1. **Caution** • Observe proper electrostatic safety precautions when handling static-sensitive components such as circuit boards and printheads.

Connect yourself to an antistatic device.

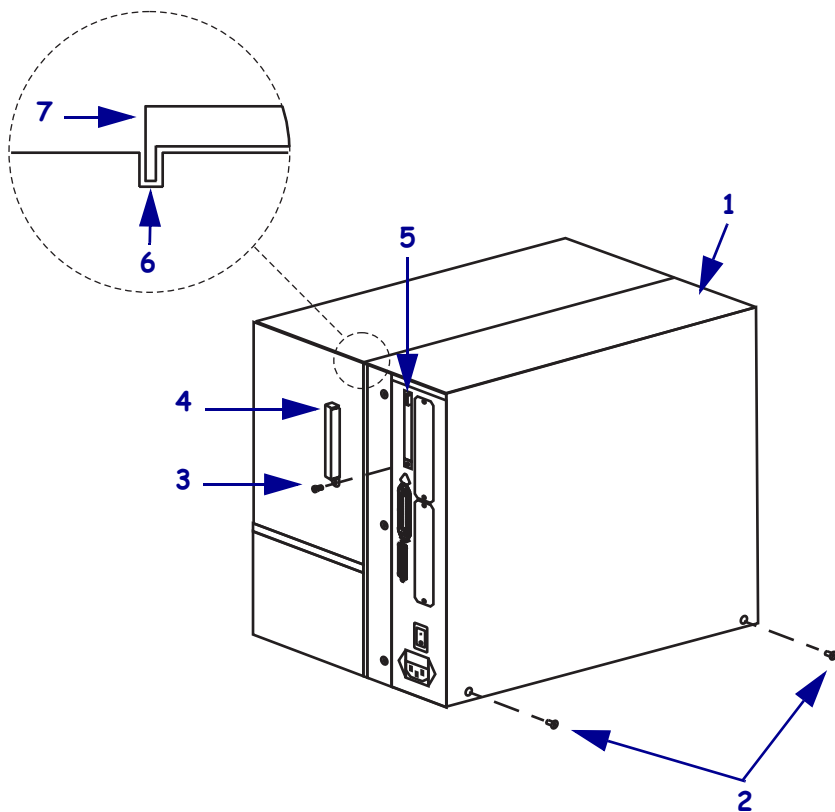


2. **Caution** • Turn off (O) the printer and disconnect it from the power source before performing the following procedure.

Turn off (O) the printer and disconnect the AC power cord and all data cables.

3. See [Figure 2](#). Remove the two screws that secure the electronics cover.
4. Remove the cover.

Figure 2 • Remove or Install the Electronics Cover

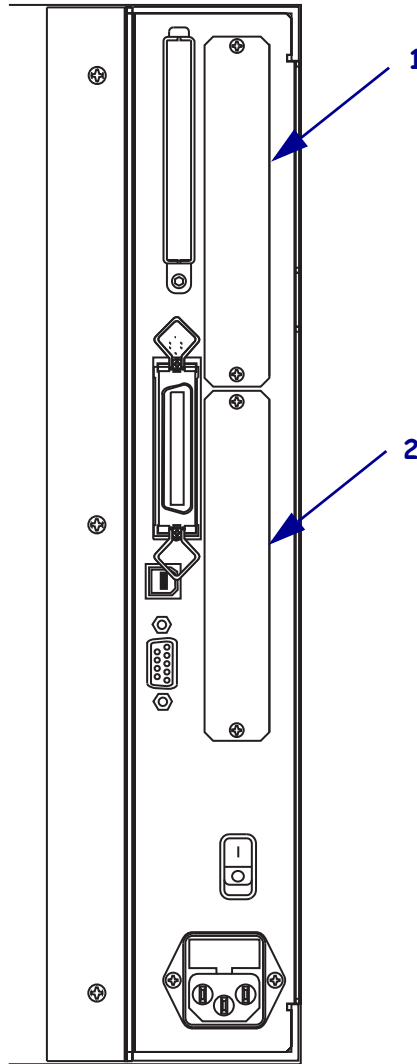


1	Electronics cover
2	Electronics cover mounting screws (2)
3	Option card shield mounting screw
4	Option card shield
5	Eject button
6	Channel
7	Lip of cover

Remove Option Boards

In order to install the Internal Wireless Plus Print Server, you must remove any option boards located in either of the slots shown below. See [Figure 3](#).

Figure 3 • Option Board Locations



1	Applicator option
2	Twinax, Coax, and Print Server options

Remove the Existing Internal Wireless Plus, Wireless Plus, or PCMCIA Option Board Assembly



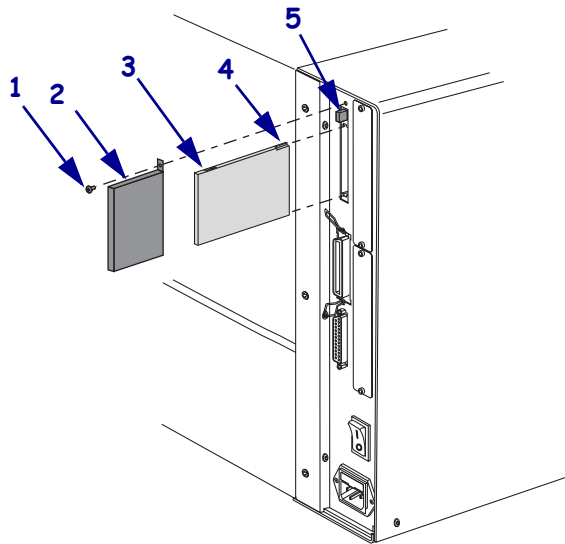
Caution • Observe proper electrostatic safety precautions when handling any static-sensitive components such as circuit boards and printheads.

1. See [Figure 4](#). Check the rear panel for the RF card cover. Remove the mounting screw and the cover, and then eject either the wireless card or the memory card.



Note • See [Figure 2](#). If you have a PCMCIA Option Board and PCMCIA card, your printer will have a metal option card shield instead of the plastic RF cover.

Figure 4 • RF Card and Cover



1	RF card cover mounting screw
2	RF card cover (plastic)
3	Wireless option card
4	Notch
5	Card eject button

2. What type of option board do you currently have?

If you have...	Then...
PCMCIA, Wireless PrintServer, or Wireless Plus Print Server board	Continue to <i>Remove the PCMCIA/Wireless Standoffs</i> on page 7.
Internal Wireless Plus Print Server board	Go to <i>Remove the Internal Wireless Plus Print Server Board</i> on page 8.


Remove the PCMCIA/Wireless Standoffs

The 105SL and the XiIIIPlus have used two different means of securing the PCMCIA/wireless board to the main logic board (MLB).



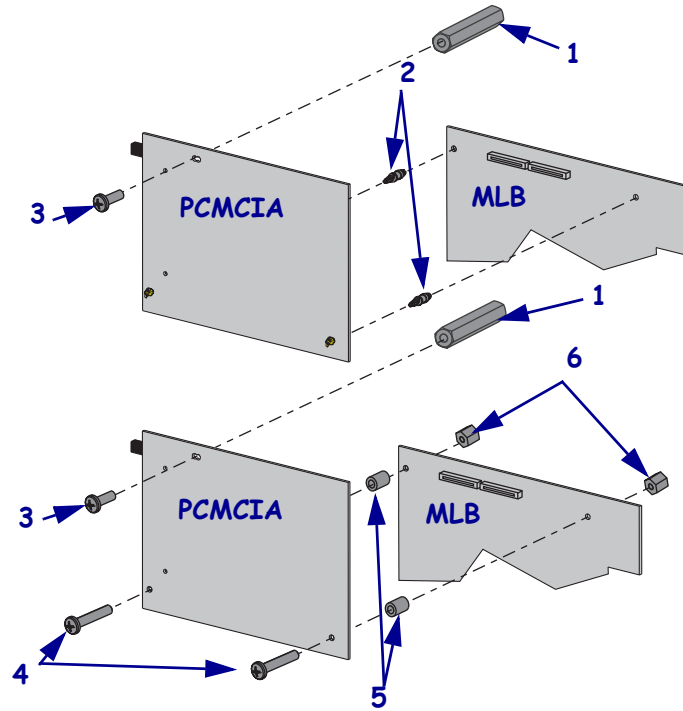
Caution • Observe proper electrostatic safety precautions when handling any static-sensitive components such as circuit boards and printheads.

1. See [Figure 5](#). How does your PCMCIA/wireless board connect to the MLB?

If you have...	Then...
Two plastic locking standoffs	<ol style="list-style-type: none"> a. Remove the screw securing the PCMCIA/wireless board to a metal standoff on the printer chassis. b. Disconnect the PCMCIA/wireless board from two plastic standoffs. c. Gently pull the PCMCIA/wireless board away from the MLB to disconnect the two connectors, P24 and P23, on the MLB. d. Continue to <i>Remove the MLB</i> on page 9.
Two screws, spacers, and nuts	<ol style="list-style-type: none"> a. Remove the screw securing the PCMCIA/wireless board to a metal standoff on the printer chassis. <div style="margin-left: 20px;">  <p>Note • You must remove the MLB and PCMCIA/wireless boards from the printer together, and then separate them. You will complete this in the next section.</p> </div> b. Continue to <i>Remove the MLB</i> on page 9.

8 | ZebraNet Internal Wireless Plus Print Server for 105SL and XiiiPlus
Remove the Existing Internal Wireless Plus, Wireless Plus, or PCMCIA Option Board Assembly

Figure 5 • Standoffs



1	Standoff to main frame	4	Mounting screws (2)
2	Plastic standoffs (2)	5	Spacers (2)
3	Mounting screw	6	Threaded spacers (2)

Remove the Internal Wireless Plus Print Server Board



Caution • Observe proper electrostatic safety precautions when handling any static-sensitive components such as circuit boards and printheads.

1. From the back of the printer, unscrew the RF antenna.
2. Remove the nut and washer from the RF connector.
3. Remove the top mounting screw securing the Internal Wireless Plus bracket.
4. Remove the bracket and set aside.

Remove the MLB



1. **Caution** • Observe proper electrostatic safety precautions when handling static-sensitive components such as circuit boards and printheads.

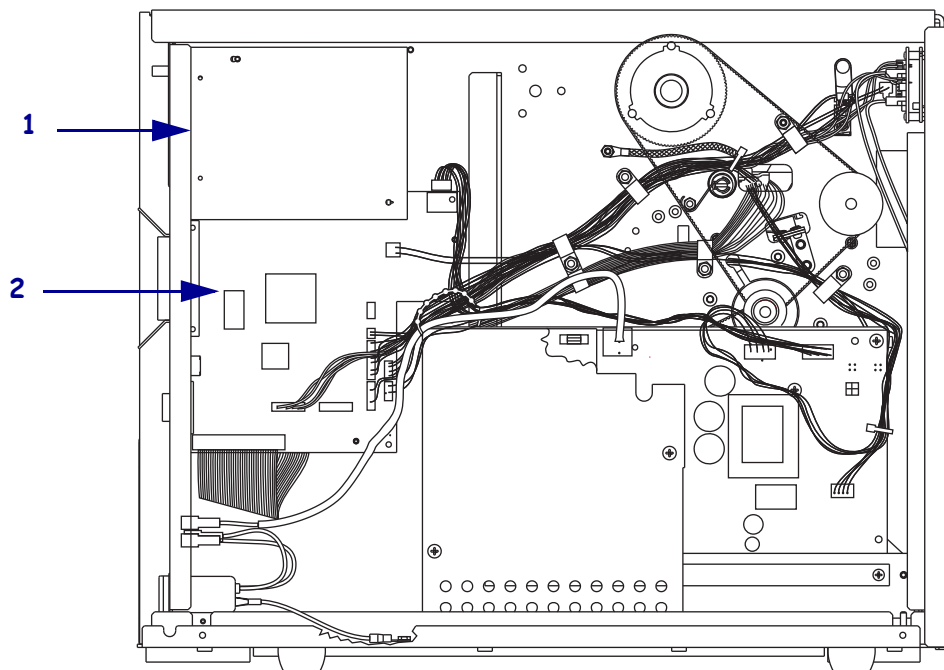
Connect yourself to an antistatic device.

2. What printer do you have?

If you have a...	Then...
105SL	See Figure 6 and Figure 7 .
110XiIIIPlus	See Figure 8 .
All other XiIIIPlus models	See Figure 9 .

3. Unplug the ribbon cable and small wire connectors. Note the wire connector positions.

Figure 6 • 105SL Main Logic Board Location



1	PCMCIA board
2	Main logic board

Figure 7 • 105SL Main Logic Board Location and Interconnection

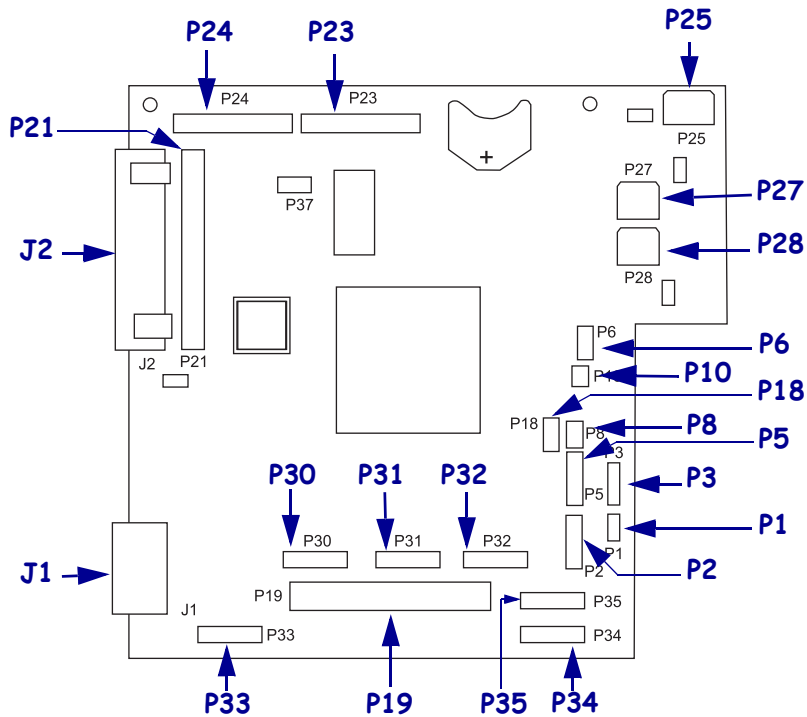


Table 2 • 105SL Main Logic Board Location and Interconnection

Conn.	Description	Conn.	Description
J1	Serial port	P23	PCMCIA board connector
J2	Parallel port	P24	PCMCIA board connector
P1	Lower take-label sensor	P25	Power-in
P2	Upper take-label sensor	P27	LCD display control board power
P3	Head-open sensor	P28	DC Power (Only available on the Custom 4MB board)
P5	Ribbon sensor	P30	SPI connector*
P6	Reflective media sensor	P31	SPI connector*
P8	Transmissive media sensor	P32	SPI connector LCD display board*
P10	Transmissive media sensor	P33	SPI connector cutter board*
P18	Custom interface connector (Only available on the Custom 4MB board)	P34	SPI connector DC power supply J11*
P19	Printhead data	P35	SPI connector*
P21	Internal parallel connector		

*SPI—Serial Peripheral Interface

**Figure 8 • Wireless PCMCIA and Main Logic Board Locations—
110XillPlus Models Only**

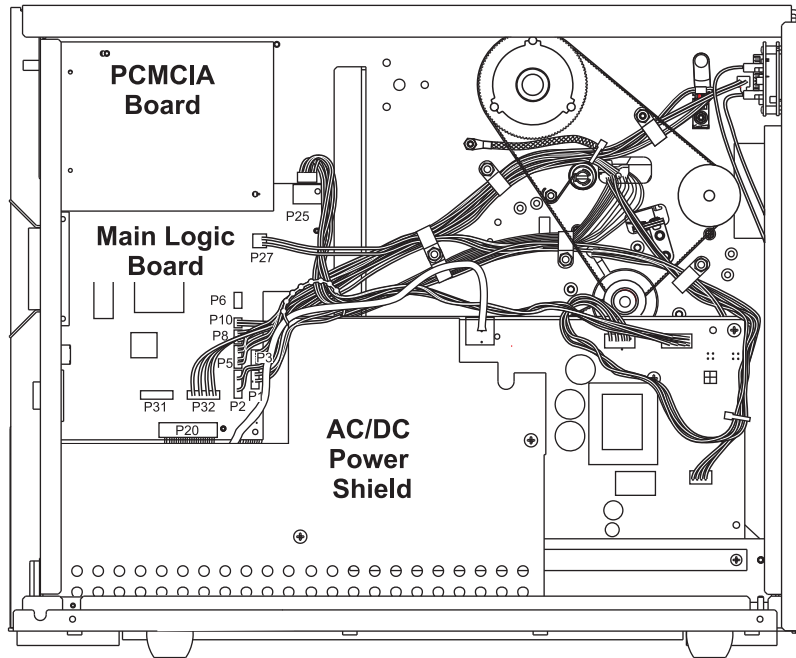


Table 3 • 110XillPlus Models Only

Connector	Description	Connector	Description
P1	Lower take-label sensor	P24	PCMCIA board connector
P2	Upper take-label sensor	P27	LCD display control board power
P3	Head-open sensor	P30	SPI connector*
P5	Ribbon sensor	P31	SPI connector*
P6	Reflective media sensor	P32	SPI connector LCD display board*
P8	Transmissive media sensor	P33	SPI connector cutter board*
P10	Transmissive media sensor	P34	SPI connector DC power supply J11*
P20	Printhead data	P35	SPI connector*
P21	Internal parallel connector	P36	USB port
P23	PCMCIA board connector		

*SPI—Serial Peripheral Interface

Figure 9 • Wireless PCMCIA and Main Logic Board Locations—
All Models Except 110XIIIPlus

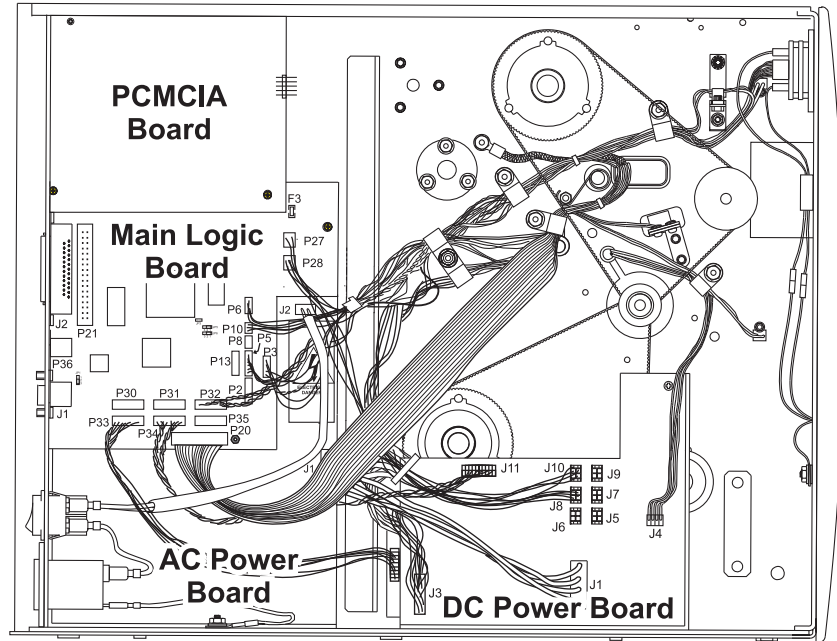


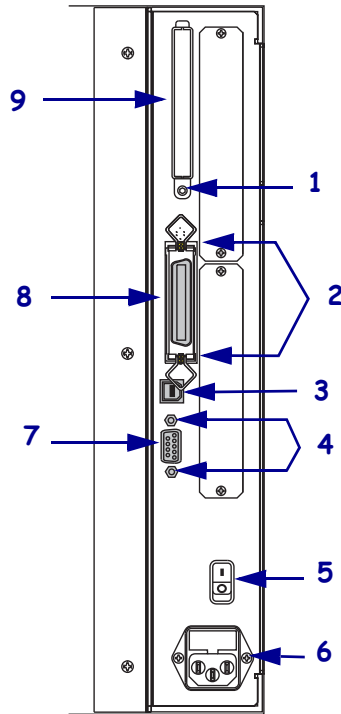
Table 4 • All Models Except 110XIIIPlus

Connector	Description	Connector	Description
P1	Lower take-label sensor	P24	PCMCIA board connector
P2	Upper take-label sensor	P27	LCD display control board power
P3	Head-open sensor	P28	DC power supply J10
P5	Ribbon sensor	P30	SPI connector*
P6	Reflective media sensor	P31	SPI connector*
P8	Transmissive media sensor	P32	SPI connector LCD display board*
P10	Transmissive media sensor	P33	SPI connector cutter board*
P20	Printhead data	P34	SPI connector DC power supply J11*
P21	Internal parallel connector	P35	SPI connector*
P23	PCMCIA board connector	P36	USB port

*SPI—Serial Peripheral Interface

4. See [Figure 10](#). At the rear panel, remove the two screws that secure the 36-pin parallel port connector.
5. Remove the two standoffs and washers securing the 9-pin serial port connector.

Figure 10 • Rear View of Rear Panel



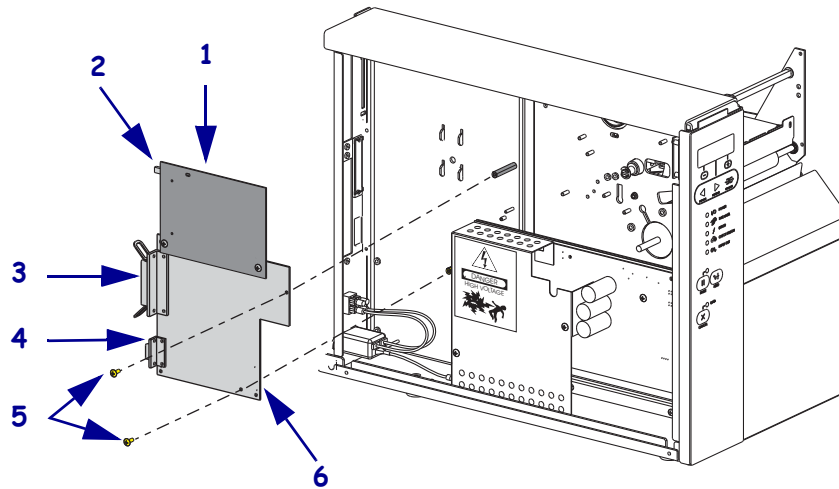
1	RF cover mounting screw
2	Parallel interface mounting screws (2)
3	USB connector (only available on XiIIIPlus models)
4	DB-9 serial interface mounting studs and washers (2)
5	AC power on/off switch
6	AC power cable connection
7	DB-9 serial interface connector
8	Parallel interface connector
9	RF cover

6. What printer do you have?

If you have a...	Then...
105SL	a. See Figure 11 .
All XiIIIPlus models	a. See Figure 12 .

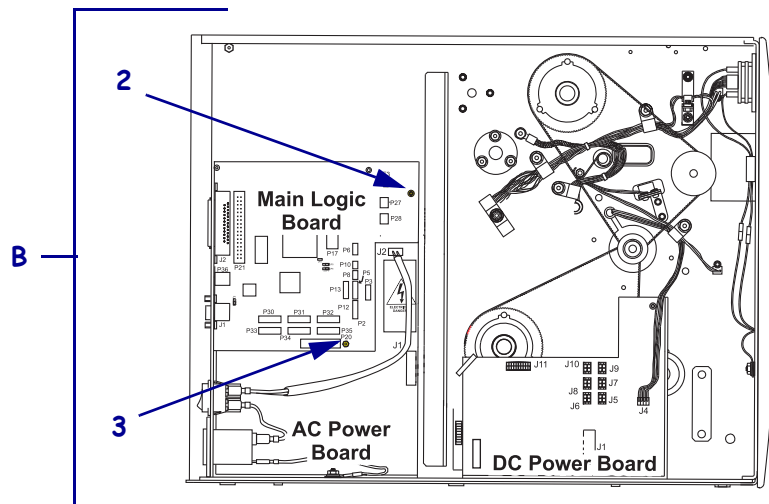
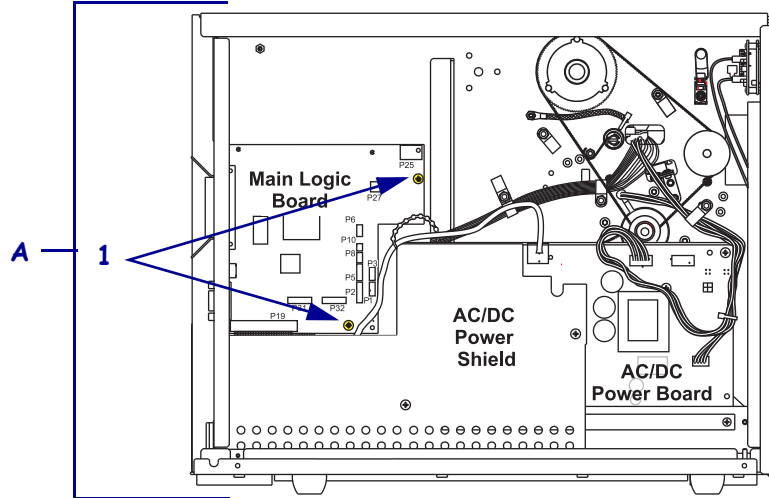
7. On the electronics side of the printer, remove the MLB by removing the mounting screw in the upper right and the mounting screw (or nut) at the bottom right.
8. To remove the MLB/PCMCIA assembly, pull out the top of the assembly and guide its three (serial, parallel, and RF) connectors out of the rear panel openings.
9. Place the assembly on an antistatic mat.
10. If your boards were connected using plastic locking standoffs, remove and discard the standoffs.
11. If your boards are connected using screws, spacers and nuts, hold the nut on the back of the MLB while removing the screw from the front of the PCMCIA board. Repeat for both screws, standoffs, and nuts.
12. Separate the MLB and PCMCIA boards.
13. Continue with [Install the New Internal Wireless Plus and MLB Boards on page 16](#).

Figure 11 • Remove the 105SL PCMCIA Board and Main Logic Board



1	PCMCIA board
2	RF antenna
3	Parallel port
4	Serial port
5	Mounting screws (2)
6	Main logic board

Figure 12 • Remove the XiiiPlus MLB

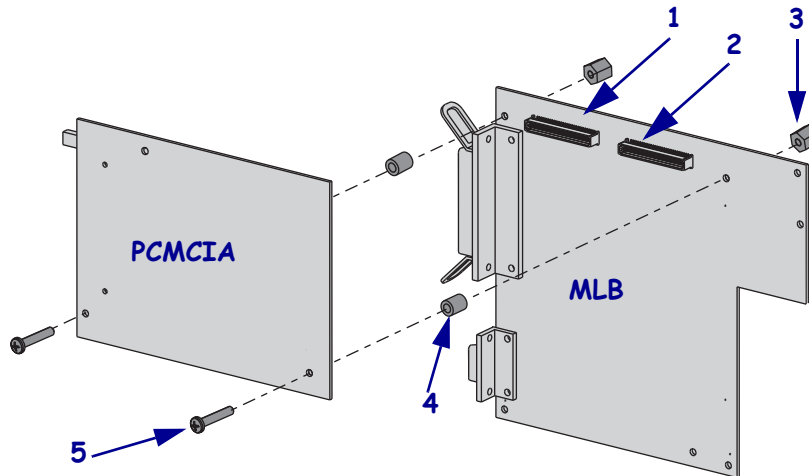


A	110XiiiPlus
B	All models except 110XiiiPlus
1	Mounting screws (2)
2	Mounting screw
3	Mounting nut

Install the New Internal Wireless Plus and MLB Boards

1. See [Figure 13](#). Align the two connectors on the internal wireless plus board with P23 and P24 on the MLB and then push them together.
2. Slide one of the new spacers between the internal wireless plus board and the MLB at either one of the mounting holes.

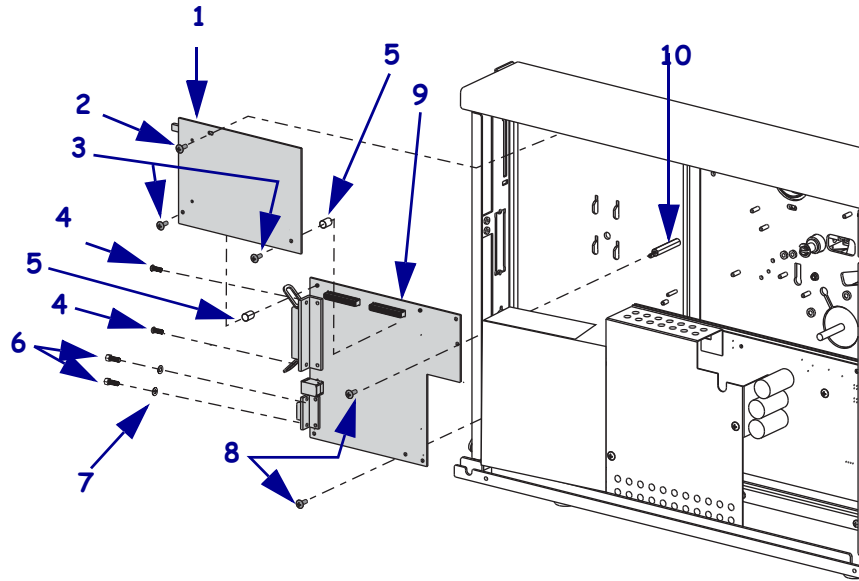
Figure 13 • Install New Spacers



1	P24 connector
2	P23 connector
3	Nuts (2)
4	Spacers (2)
5	Screws (2)

3. Insert one of the screws through the mounting hole in the internal wireless plus board, spacer, and MLB.
4. Secure the screw with one of the plastic nuts.
5. Repeat [step 2](#), [step 3](#), and [step 4](#) for the other mounting hole.
6. Ensure that the internal wireless plus board is seated into the MLB connectors, P23 and P24.
7. See [Figure 14](#). Starting with the top edge of the internal wireless plus board assembly, install the assembly using the hardware previously removed.
Ensure that the connectors (RF, parallel, and serial) align with the appropriate openings in the rear panel.

Figure 14 • Install the Internal Wireless Plus Print Server Board and MLB



1	Internal wireless plus print server board
2	Wireless mounting screw
3	Wireless-to-MLB mounting screws (2)
4	Parallel interface mounting screws (2)
5	Wireless-to-MLB spacers (2)
6	Serial interface mounting studs (2)
7	Serial interface washers (2)
8	MLB mounting screws (2)
9	MLB
10	Cast boss

8. See [Figure 10 on page 13](#). Reinstall the screws and studs for the serial and parallel interface connectors.
9. See [Figure 6 on page 9](#) and [Table 2 on page 10](#). Reconnect all ribbon and small wire connections to the MLB.
10. See [Figure 3 on page 5](#). Reinstall any other option boards previously removed.

Install the Bracket and External Antenna

1. From the back of the printer, remove the sticker located alongside of the option card slot.
2. Using isopropyl alcohol, remove all of the sticker's glue.
3. Place a washer and a nut on the RF connector.
4. Insert the bottom edge of the bracket in the small slot below the option card slot.
5. Fasten the top of the bracket into place using one of the screws provided in the kit.
6. To install the external antenna, screw the antenna on to the RF connector extending out from the back plate of the printer.

Reinstall the Electronics Cover

1. See [Figure 2 on page 4](#). Reinstall the electronics cover by lowering the cover so the lip goes into the channel on the top of the printer.
2. Secure the cover by reinstalling the two screws on the bottom of the cover.
3. Reconnect the data cables and the AC power cord.

Resume Printer Operation

1. Refer to the *Wireless User Guide* to configure the Internal Wireless Plus Print Server for operation.
2. Turn on (I) the printer.

After You Complete the Installation

Firmware

After you have completed this installation, you must download firmware version V60.16.x (or later) a second time from: www.zebra.com/firmware.

Attach Labels

1. Did you receive one or more labels in your kit?

If...	Then...
Yes	Continue with step 2 .
No	Skip to step 4 .

2. See [Figure 15](#). Examine the labels included with the kit.

There may be several labels included with your kit.



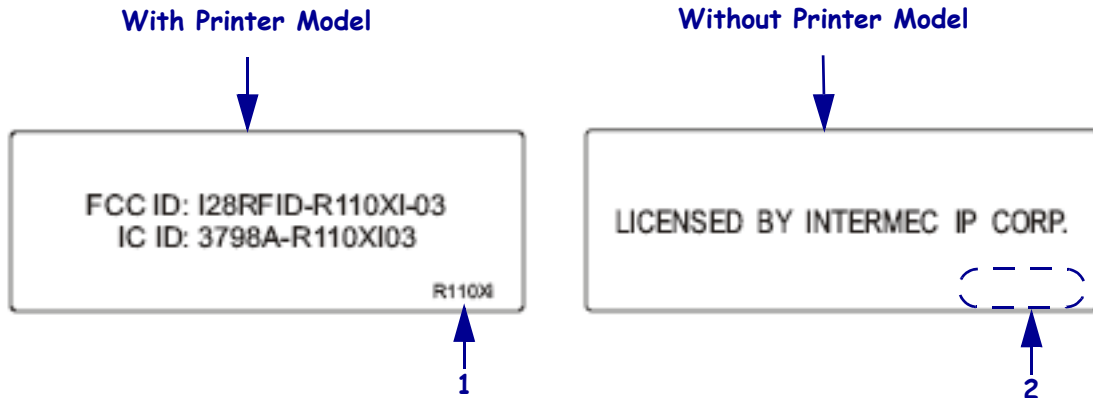
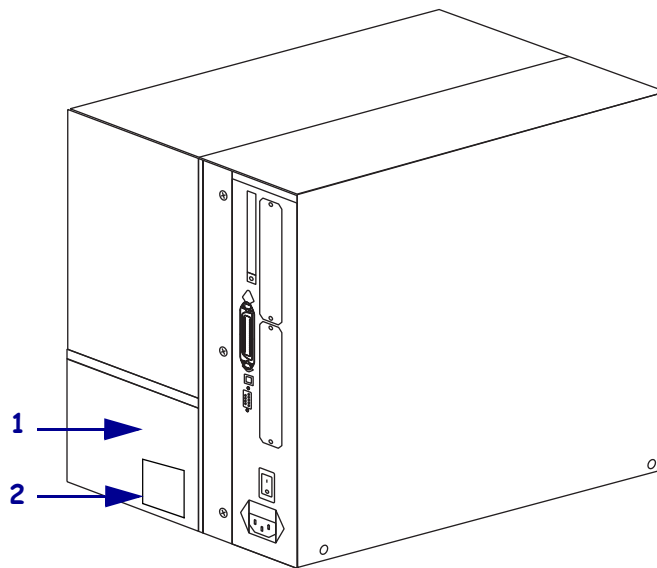
If you have labels...	Then...
With your printer model in the lower right-hand corner	<ol style="list-style-type: none"> See Figure 16. Remove all of the old small plastic labels affixed to the outside of your printer.  Important • Do not remove the electrical ratings label, also known as the model plate. The model plate contains essential user information. See Figure 15. Remove the backing for all of the labels for your specific printer. See Figure 16. Affix the new printer labels in the area near the model plate. Continue with step 3.
Blank in the lower right-hand corner	<ol style="list-style-type: none"> See Figure 16. Remove all of the old small plastic labels affixed to the outside of your printer.  Important • Do not remove the electrical ratings label, also known as the model plate. The model plate contains essential user information. See Figure 15. For all labels that are blank in the corner, remove the backing for these labels. See Figure 16. Affix the new printer labels in the area near the model plate. Continue with step 3.

Figure 15 • Sample Labels



1	Printer model
2	No printer model

Figure 16 • Label Location



1	Affix labels here
2	Model plate

3. Discard any additional labels included in the kit.
4. The installation is complete.

Compliance Information

FCC Compliance Statement

This device complies with Part 15 rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

The user is cautioned that any changes or modifications not expressly approved by Zebra Technologies could void the user's authority to operate the equipment. To ensure compliance, this printer must be used with Shielded Communication Cables.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Canadian DOC Compliance Statement

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.



ZebraNet® Internal Wireless Plus Print Server for S4M

Installation Instructions

This kit includes the parts and documentation necessary to install the ZebraNet® Internal Wireless Plus Print Server into the S4M™ printer. Read these instructions thoroughly before performing this procedure.

Prepare for Installation

Parts List

Table 1 • Kit Parts List

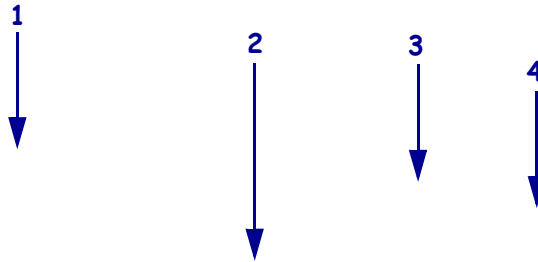
✓	Item	Qty	Part Number	Description
	<i>Ref</i>	1	M	Internal Wireless Plus Print Server Option Maintenance Kit
	1	1	29883-001	Internal Wireless Plus PC Board
	2	1	39538	Antenna
	3	2		Screw, M3
	4	1		Standoff

Bold = Part available for purchase.

Italic = Part not available for purchase, listed and shown for reference only.



Figure 1 • Kit Contents



Reference Materials

- *ZebraNet® Wireless User Guide*
- S4M User CD
- S4M User Guide
- S4M Quick Reference Guide
- S4M Maintenance Manual (contact your authorized Zebra reseller for purchasing information).

Tools Required



Tools • You need these tools to complete this procedure:

- Phillips Screwdriver Set
- Antistatic Wriststrap and Mat
- Metric Nutdriver Set

Before You Begin

Before starting this installation, you must download firmware version_V53.16.x (or later) from: www.zebra.com/firmware.

Remove the Electronics Cover



Note • Retain all parts removed during disassembly, unless otherwise directed.

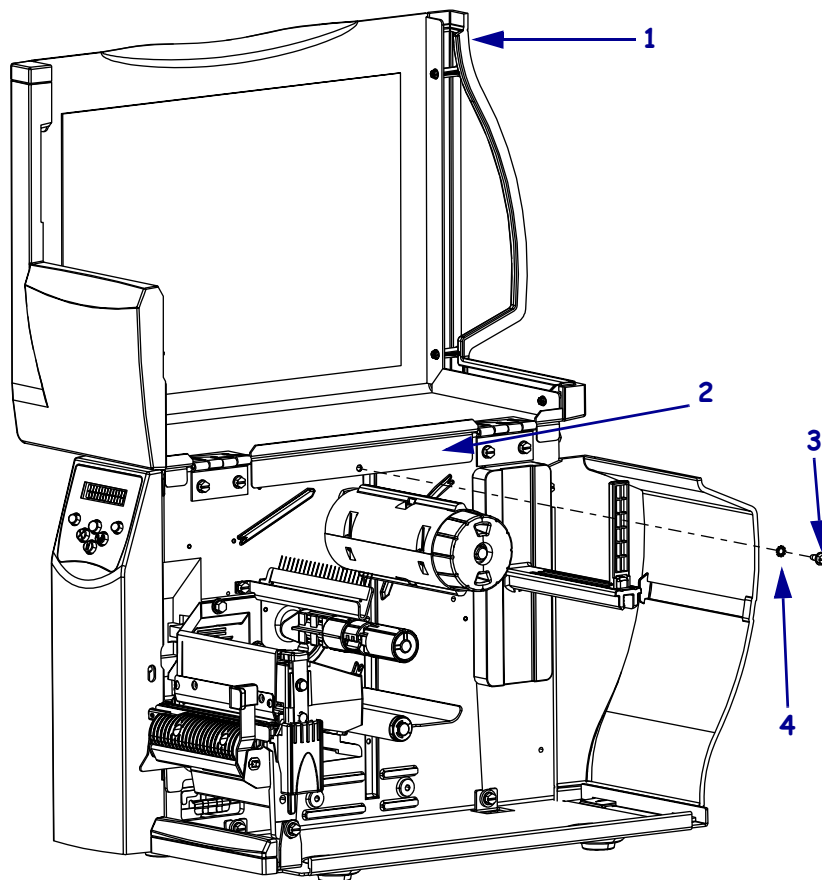


1. **Caution** • Turn off (O) the printer and disconnect it from the power source before performing the following procedure.

Turn off (O) the printer and disconnect the AC power cord and all data cables.

2. See [Figure 2](#). Remove the electronics cover mounting screw and washer and then close the media door.

Figure 2 • Remove the Mounting Screw



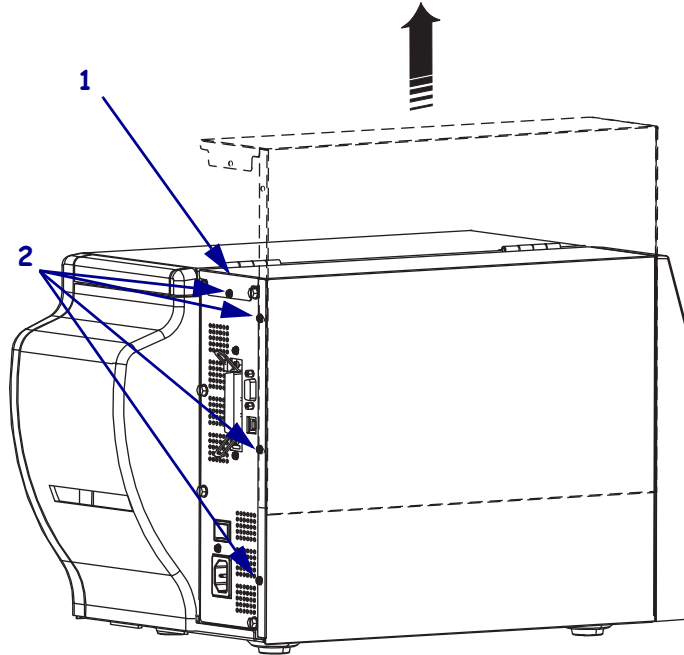
1	Media door
2	Electronics cover upper flange
3	Electronics cover mounting screw
4	Washer

3. See [Figure 3](#). Remove the four remaining mounting screws securing the electronics cover.

4 | ZebraNet® Internal Wireless Plus Print Server for S4M
Remove the Electronics Cover

4. Remove the electronics cover by lifting straight up on the bottom lip of the electronics cover.

Figure 3 • Remove the Electronics Cover



1	Electronics cover
2	Mounting screws (4)

Remove the Main Logic Board



Note • Retain all parts removed during disassembly, unless otherwise directed.



1. **Caution** • Observe proper electrostatic safety precautions when handling static-sensitive components such as circuit boards and printheads.

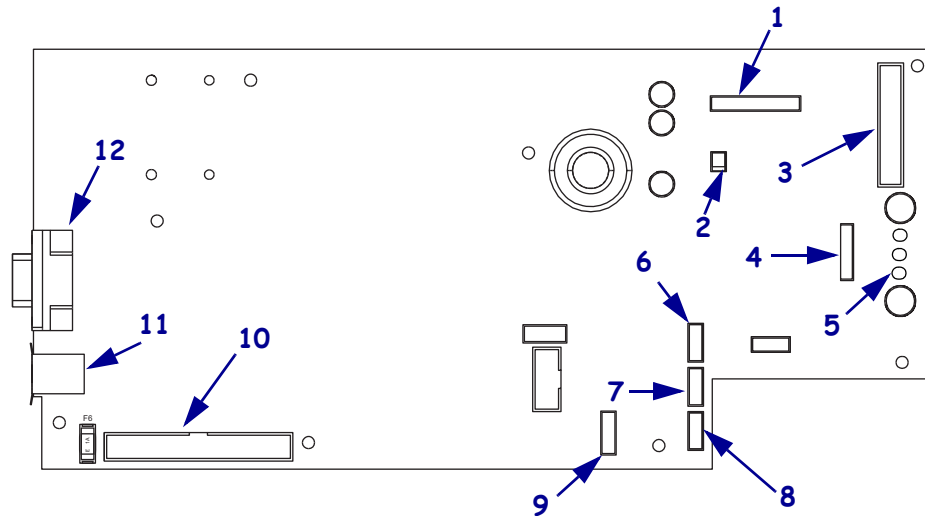
Connect yourself to an antistatic device.

2. See [Figure 4](#). Remove all cables from the main logic board.



Note • Take note of the location of all connectors on the main logic board.

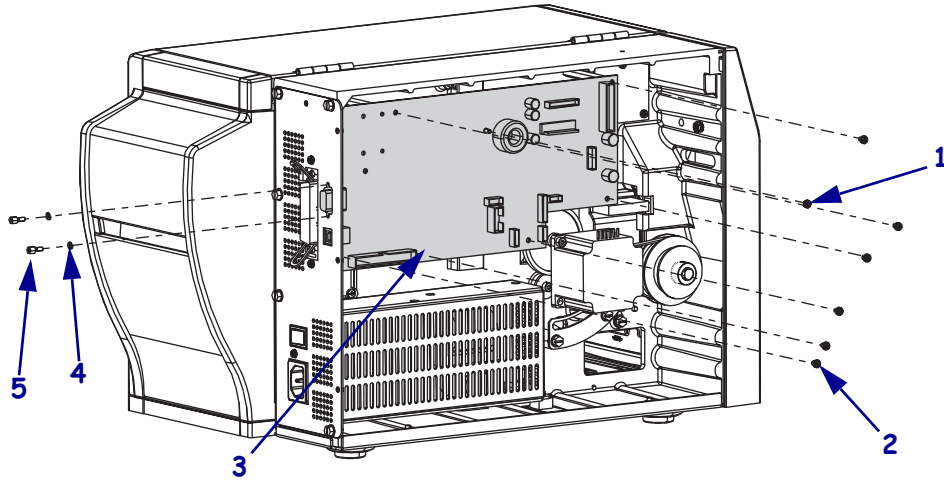
Figure 4 • Remove the Main Logic Board Connections



1	Printhead data (J3)	7	Transmissive sensor (P9)
2	Power-in (J8)	8	Reflective sensor (P7)
3	Front panel (J2)	9	Take-label sensor (J19)
4	Stepper motor (J9)	10	Communication expansion port (J17)
5	Booster board (J7)	11	USB (J14)
6	Head open ribbon sensor (P4)	12	Serial port (J10)

3. See [Figure 5](#). Remove the six screws and one nut securing the main logic board to the frame of the printer.
4. Remove the two studs and washers securing the serial port connector to the back of the printer.

Figure 5 • Remove the Main Logic Board



1	Main logic board nut (1)
2	Main logic board mounting screws (6)
3	Main logic board
4	Serial port mounting studs (2)
5	Parallel port mounting screws (2)

5. Remove the main logic board from the printer.
6. Is there a ZebraNet Internal 10/100 PrintServer, Wireless Plus Print Server, or Parallel Option Board already installed on the printer?

If...	Then...
No	Go to <i>Install the New Internal Wireless Plus Print Server Board</i> on page 9.
Yes	Continue with <i>Remove the Existing Option Board</i> on page 7.

Remove the Existing Option Board

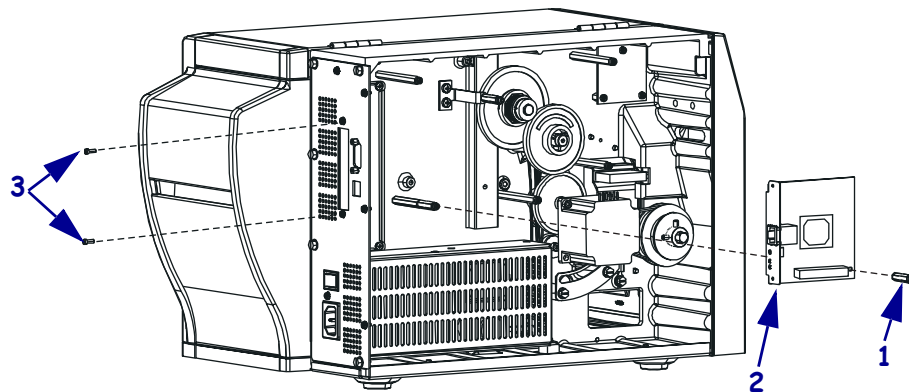
1. See [Figure 6](#) or [Figure 7](#). Remove the two screws securing the parallel port connector, the ZebraNet Internal 10/100 PrintServer, Wireless Plus Print Server, or the Wireless Print Server to the back of the printer.
2. Which communication option do you currently have?

If you have a...	Then...
ZebraNet Internal 10/100 PrintServer Board or a Parallel Port Option	Continue with Remove the ZebraNet Internal 10/100 PrintServer Board or the Parallel Option Board on page 7.
Wireless Plus Print Server	Go to Remove the Wireless Plus Print Server Board on page 8.

Remove the ZebraNet Internal 10/100 PrintServer Board or the Parallel Option Board

1. See [Figure 6](#). Remove the standoff and then the ZebraNet Internal 10/100 PrintServer or Parallel Option Board from the printer.

Figure 6 • Remove the ZebraNet Internal 10/100 PrintServer Board or the Parallel Option Board



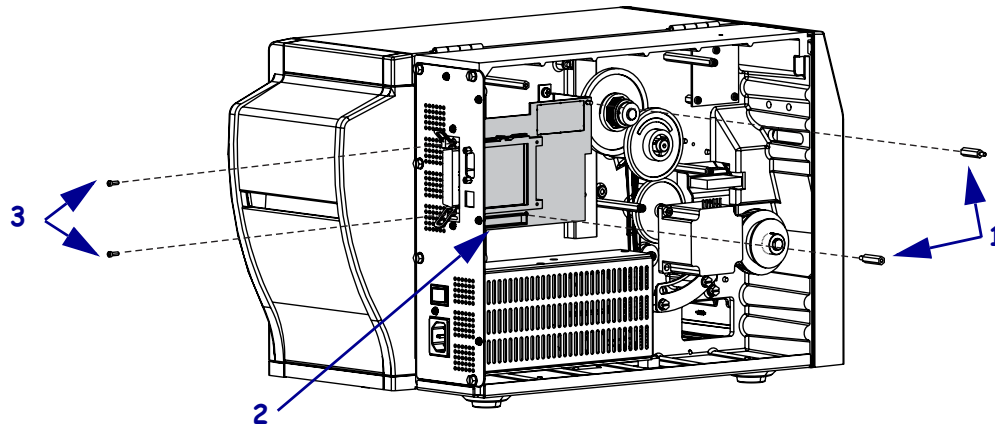
1	Standoff
2	ZebraNet Internal 10/100 PrintServer board or Parallel Port
3	Mounting screws (2)

2. Proceed to [Install the New Internal Wireless Plus Print Server Board](#) on page 9.

Remove the Wireless Plus Print Server Board

1. See [Figure 7](#). Remove the two standoffs and mounting screws from the wireless plus print server board.
2. Remove the wireless plus print server board from the printer.

Figure 7 • Remove the Wireless Print Server Board



1	Standoffs (2)
2	Wireless print server board
3	Mounting screws (2)

3. Go to [Install the New Internal Wireless Plus Print Server Board](#) on page 9.

Install the New Internal Wireless Plus Print Server Board

1. Are you installing the Internal Wireless Plus Print Server for the first time?


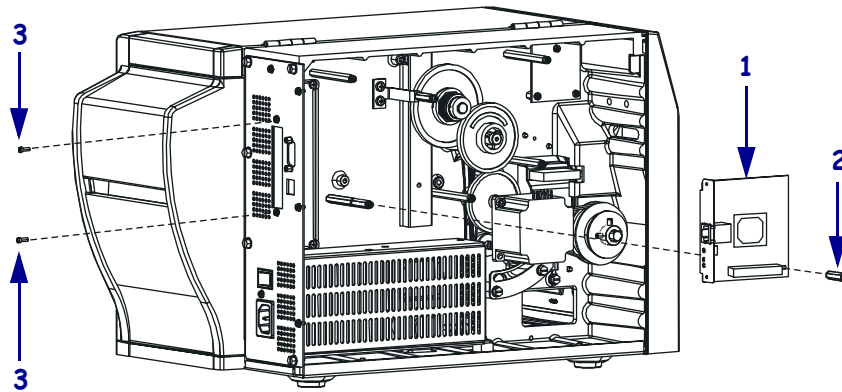
If...	Then...
No	Go to step 2 .
Yes	<ol style="list-style-type: none"> a. See Figure 8. Remove the two short standoffs shown. <p> Note • Depending on your printer, you may have a cast boss instead of a second standoff attached to the main frame.</p> <ol style="list-style-type: none"> b. Remove and discard the two washers; they are used as spacers when there is no option board installed. c. Continue with step 2.

Figure 8 • Remove the Standoffs

(Revise graphic for Internal Wireless Plus Board. This is showing the PSII board.)



1	Internal wireless plus print server board
2	Standoff
3	Mounting screws (2)

2. Install the board using the standoff and mounting screws included in this kit.
3. Install the 40-pin cable that will go to the main logic board.

Reinstall the Main Logic Board

1. See [Figure 5 on page 6](#). Install the main logic board in the printer using the six screws and one nut removed previously.
2. From the back panel of the printer, reinstall the two screws and washers securing the Internal Wireless Plus Print Server board and the two studs and washers securing the serial port to the back panel.
3. See [Figure 4 on page 5](#). Reinstall all the cables previously removed from the main logic board.

Visually inspect and ensure the cables are in their proper location and seated in the connectors.

Install the External Antenna

1. To install the external antenna, screw the antenna on to the RF connector extending out from the back panel of the printer.

Resume Operations

1. See [Figure 3 on page 4](#). Install the cover by aligning it and sliding down, ensuring the lower tabs are inside the base and the upper flanges are between the main frame and the media door.
2. Install the four mounting screws on the back of the printer.
3. See [Figure 2 on page 3](#). Open the media door and install the mounting screw and washer to secure the electronics cover.

Install the Electronics Cover

1. Reinstall the media and ribbon.
2. Reconnect AC power cord and data cables.
3. Turn on (I) the printer.

After You Complete the Installation

Firmware

After you have completed this installation, you must download firmware version V53.16.x (or later) a second time from: www.zebra.com/firmware.

Attach Labels

1. Did you receive one or more labels in your kit?

If...	Then...
Yes	Continue with step 2 .
No	Skip to step 4 .

2. See Figure 9. Examine the labels included with the kit.

There may be several labels included with your kit.



If you have labels...	Then...
With your printer model in the lower right-hand corner	<ol style="list-style-type: none"> See Figure 10. Remove all of the old small plastic labels affixed to the outside of your printer.  Important • Do not remove the electrical ratings label, also known as the model plate. The model plate contains essential user information. See Figure 9. Remove the backing for all of the labels for your specific printer. See Figure 10. Affix the new printer labels in the area near the model plate. Continue with step 3.
Blank in the lower right-hand corner	<ol style="list-style-type: none"> See Figure 10. Remove all of the old small plastic labels affixed to the outside of your printer.  Important • Do not remove the electrical ratings label, also known as the model plate. The model plate contains essential user information. See Figure 9. For all labels that are blank in the corner, remove the backing for these labels. See Figure 10. Affix the new printer labels in the area near the model plate. Continue with step 3.

Figure 9 • Sample Labels

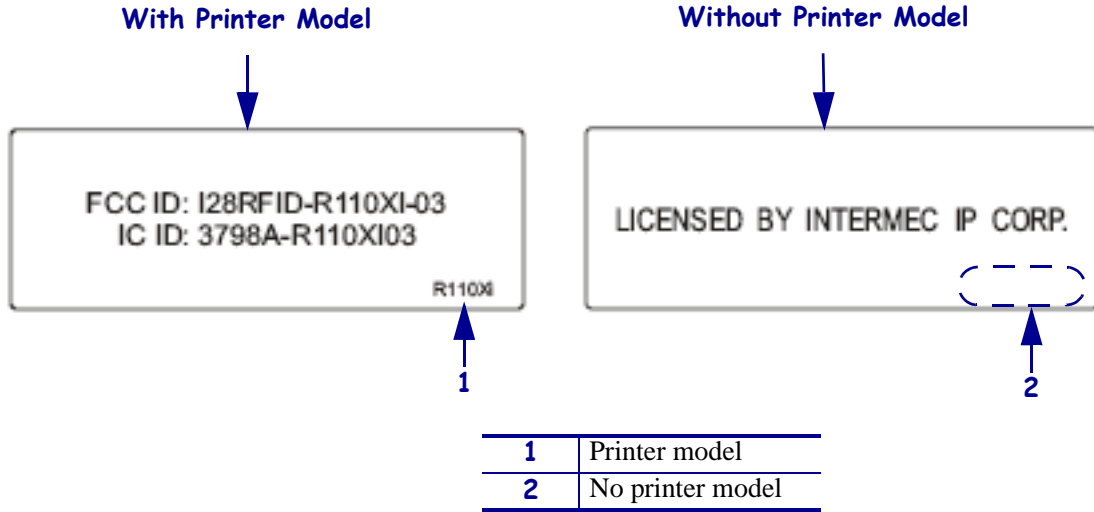
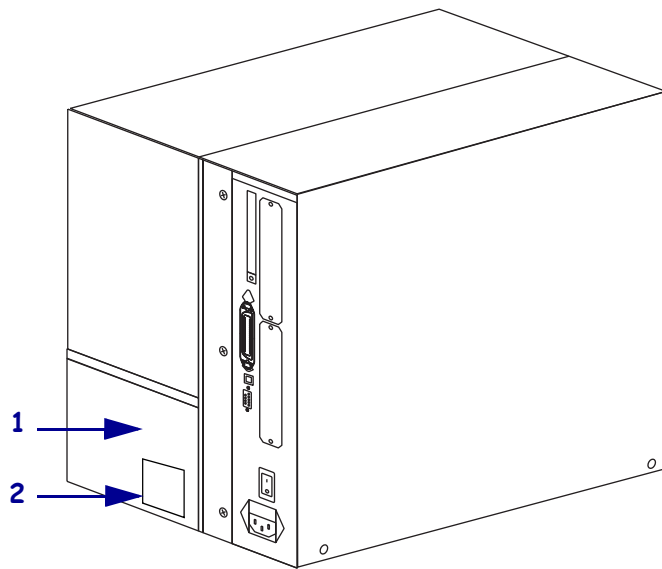


Figure 10 • Label Location

(Need S4M graphic)



1	Affix labels here
2	Model plate

3. Discard any additional labels included in the kit.
4. The installation is complete.

Compliance Information

FCC Compliance Statement

This device complies with Part 15 rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

The user is cautioned that any changes or modifications not expressly approved by Zebra Technologies could void the user's authority to operate the equipment. To ensure compliance, this printer must be used with Shielded Communication Cables.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Canadian DOC Compliance Statement

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.



ZebraNet[®] Internal Wireless Plus Print Server for ZM400[™]/ZM600[™]

Installation Instructions

This kit includes the parts and documentation necessary to install the ZebraNet[®] Internal Wireless Plus Print Server into the ZM400[™] and ZM600[™] printers. Read these instructions thoroughly before installing this kit.

Prepare for Installation

Parts List

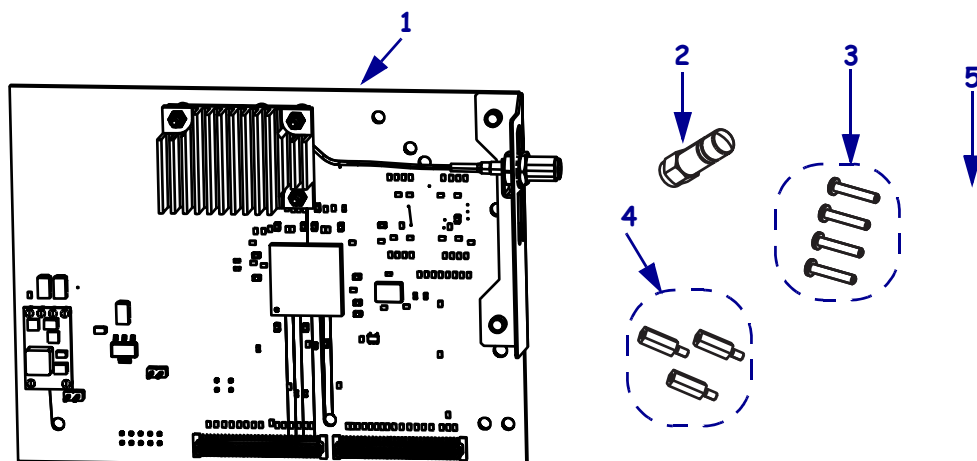
Before proceeding, verify that your kit contains the items listed below.

Table 1 • Parts List

✓	Item	Qty	Part Number	Description
	Ref	1	M	Internal Wireless Plus Print Server Option Maintenance Kit
	1	1	<i>29652-006</i>	Internal Wireless Plus PC Board
	2	1	<i>39538</i>	Antenna
	3	3	<i>79293</i>	Studded Standoff
	4	4		Screw, M3
	5	1		Bracket

Bold = Part available for purchase.
Italic = Part not available for purchase; listed and shown for reference only.

Figure 1 • Kit Contents



Reference Materials

The following manuals and CDs may be helpful references while performing this procedure.

- ZebraNet[®] Wireless User Guide
- ZM400/ZM600 User CD
- ZM400/ZM600 Maintenance Manual CD

Tools Required



Tools • You need these tools to complete this procedure:

- Phillips Screwdriver Set
- Antistatic Wriststrap and Mat
- Flat-blade Screwdriver Set

Remove the Electronics Cover



Note • Retain all parts removed during disassembly, unless otherwise directed.



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

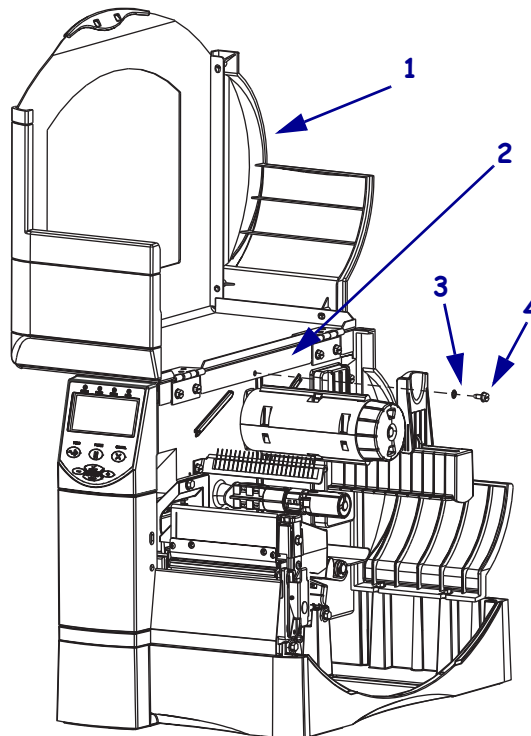
Turn off (O) the printer and disconnect the AC power cord and all data cables.

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.

Remove the media and ribbon.

3. See [Figure 2](#). Remove the screw and washer securing the electronics cover.

Figure 2 • Locate the Electronics Cover Mounting Screw



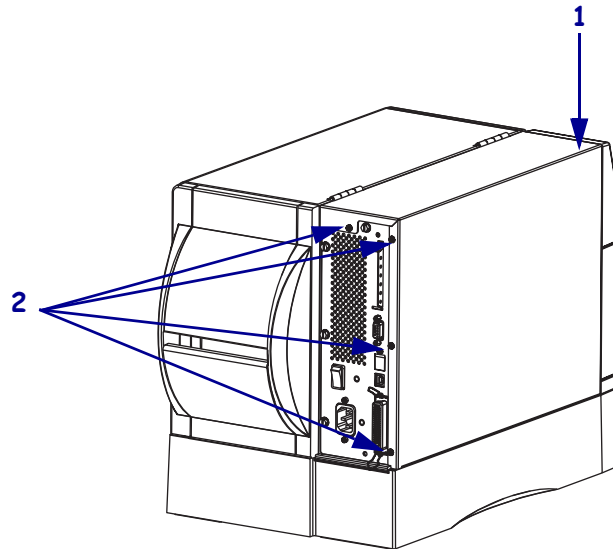
1	Media door
2	Electronics cover
3	Washer
4	Mounting screw

4. Close the media door.

4 | ZebraNet Internal Wireless Plus Print Server for ZM400/ZM600
Remove the Electronics Cover

5. See [Figure 3](#). Remove the four mounting screws on the rear of the printer.

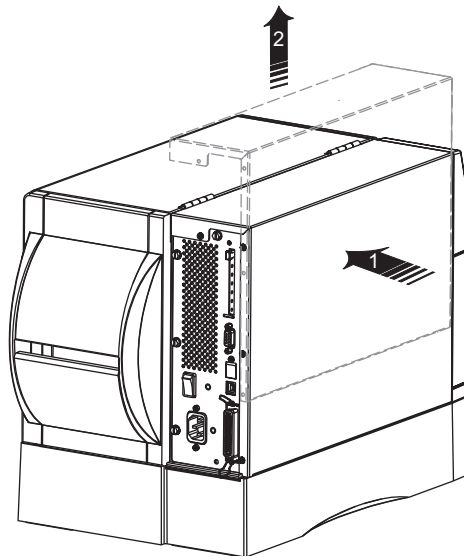
Figure 3 • Remove the Electronics Cover Mounting Screws



1	Electronics cover
2	Mounting screws (4)

6. See [Figure 4](#). Remove the electronics cover by pressing in on the electronics cover with the palm of your hand, and then lifting up on the cover.

Figure 4 • Remove the Electronics Cover



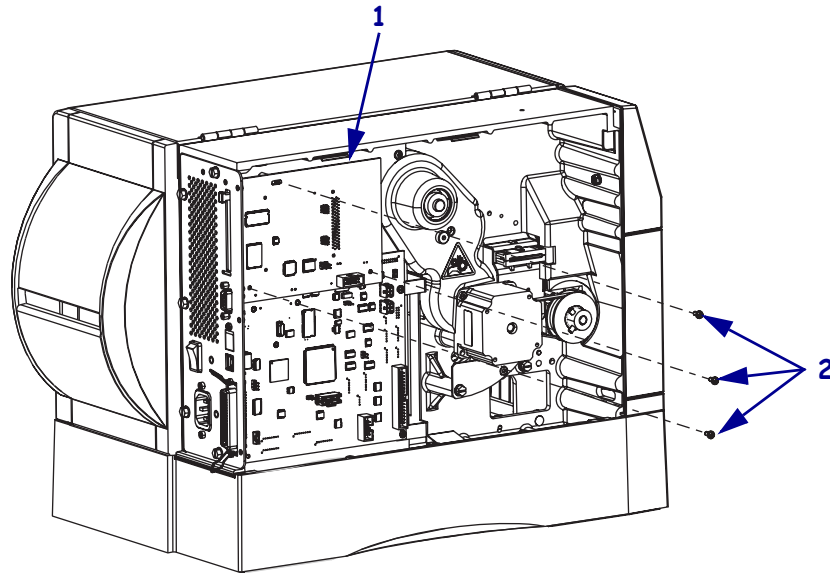
7. Is there a ZebraNet 10/100 Internal PrintServer or Wireless Plus Print Server already installed on the printer?

If...	Then...
No	Go to <i>Install the New Internal Wireless Plus Print Server Board</i> on page 6.
Yes	Continue with <i>Remove the Old Wireless Plus Print Server Board</i> on page 5.

Remove the Old Wireless Plus Print Server Board

1. See [Figure 5](#). Depending on your wireless plus print server, your printer may have either two or three mounting screws. Remove the mounting screws from the Wireless Plus Print Server board.
2. Remove the Wireless Plus Print Server board from the printer.

Figure 5 • Remove the Wireless Plus Print Server Board



1	Wireless print server board
2	Mounting screws (3)

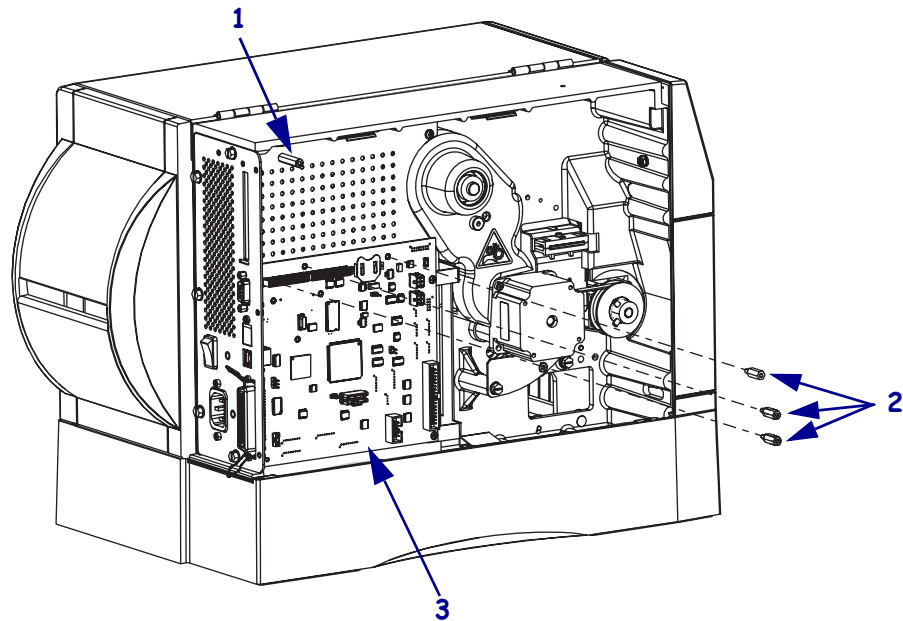
3. Go to *Install the New Internal Wireless Plus Print Server Board* on page 6.

Install the New Internal Wireless Plus Print Server Board

1. Are you installing the Internal Wireless Plus Print Server for the first time?

If...	Then...
No	<ol style="list-style-type: none">a. See Figure 6. Install one standoff in between the two beige connectors on the main logic board as shown.b. Go to step 2.
Yes	<ol style="list-style-type: none">a. See Figure 6. Install the three studded standoffs on the main logic board as shown.b. Continue with step 2.

Figure 6 • Install the Standoffs



1	Cast boss
2	Studded standoffs (3)
3	Main logic board

2. Insert the upper edge of the internal wireless plus board into the electronics area and in front of the main logic board.
3. Place the RF connector through the option board slot in the back of the printer.
4. Align the connectors along the bottom edge of the internal wireless plus board with the connectors on the main logic board.

5. While supporting the back of the internal wireless plus board with your fingers, press the board into place.
6. Install the internal wireless plus board by inserting the four mounting screws into the standoffs.

Install the Bracket and External Antenna

1. Insert the bottom edge of the bracket in the small slot below the option board opening.
2. Fasten the top of the bracket into place using one of the screws provided in the kit.
3. From the back of the printer, place a washer and a nut on the RF connector.
4. To install the external antenna, screw the antenna on to the RF connector extending out from the back plate of the printer.

Resume Operations

1. See [Figure 3 on page 4](#). Install the cover by aligning it and sliding down, ensuring the lower tabs are inside the base and the upper flanges are between the main frame and the media door.
2. Install the four mounting screws on the back of the printer.
3. See [Figure 2 on page 3](#). Open the media door and install the mounting screw and washer to secure the electronics cover.

Install the Electronics Cover

1. Reinstall the media and ribbon.
2. Reconnect AC power cord and data cables.
3. Turn on (I) the printer.

After You Complete the Installation

After you have completed this installation, you must download firmware version V53.16.x (or later) a second time from: www.zebra.com/firmware.

Attach Labels

1. Did you receive one or more labels in your kit?

If...	Then...
Yes	Continue with step 2 .
No	Skip to step 4 .

2. See [Figure 7](#). Examine the labels included with the kit.
There may be several labels included with your kit.



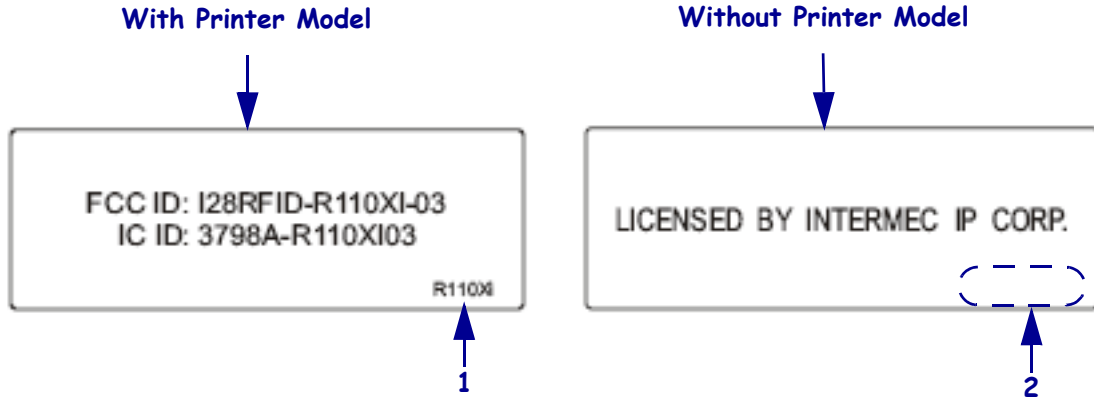
If you have labels...	Then...
With your printer model in the lower right-hand corner	<ol style="list-style-type: none"> a. See Figure 8. Remove all of the old small plastic labels affixed to the outside of your printer.  Important • Do not remove the electrical ratings label, also known as the model plate. The model plate contains essential user information. b. See Figure 7. Remove the backing for all of the labels for your specific printer. c. See Figure 8. Affix the new printer labels in the area near the model plate. d. Continue with step 3.
Blank in the lower right-hand corner	<ol style="list-style-type: none"> a. See Figure 8. Remove all of the old small plastic labels affixed to the outside of your printer.  Important • Do not remove the electrical ratings label, also known as the model plate. The model plate contains essential user information. b. See Figure 7. For all labels that are blank in the corner, remove the backing for these labels. c. See Figure 8. Affix the new printer labels in the area near the model plate. d. Continue with step 3.

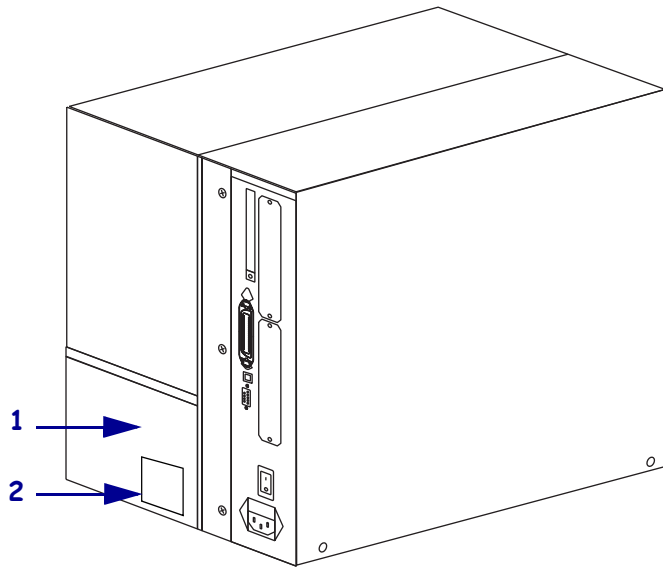
Figure 7 • Sample Labels



1	Printer model
2	No printer model

Figure 8 • Label Location

(Need ZM400 graphic)



1	Affix labels here
2	Model plate

3. Discard any additional labels included in the kit.
4. The installation is complete.

Compliance Information

FCC Compliance Statement

This device complies with Part 15 rules. Operation is subject to the following two conditions:

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This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Canadian DOC Compliance Statement

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.
