P4T/RP4T
Quick Start Guide

Introduction

Getting Started

Using the Printer

Troubleshooting

Contact Us

Introduction

Thank you for choosing one of our Zebra P4T Series Mobile Printers. The P4T Series consists of two models. The **P4T** can print on direct thermal or thermal transfer media. The **RP4T** can print on direct or thermal transfer media and also encode special RFID media.

Because these printers are made by Zebra Technologies you can be assured of world-class support for all of your bar code printers, software, and supplies.
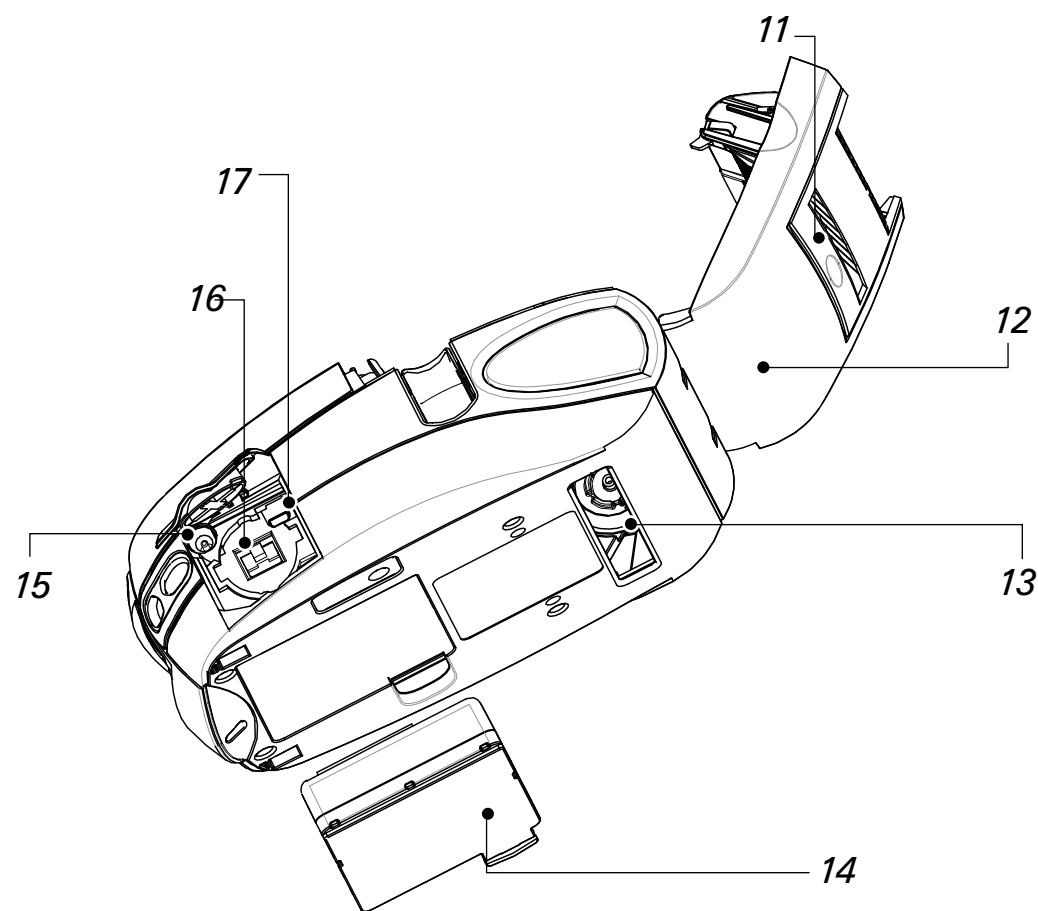
This document provides an easy reference for operating and maintaining either the P4T or the RP4T Mobile Printer.

Complete and current documentation for these printers is provided by the **P4T/RP4T User Guide** available on the Internet at: ***www.zebra.com/manuals***.

! **Always refer to the Important Safety Information data sheet shipped with each printer and the Technical Bulletin shipped with each battery pack. These documents detail procedures to ensure maximum reliability and safety while using this printer.**
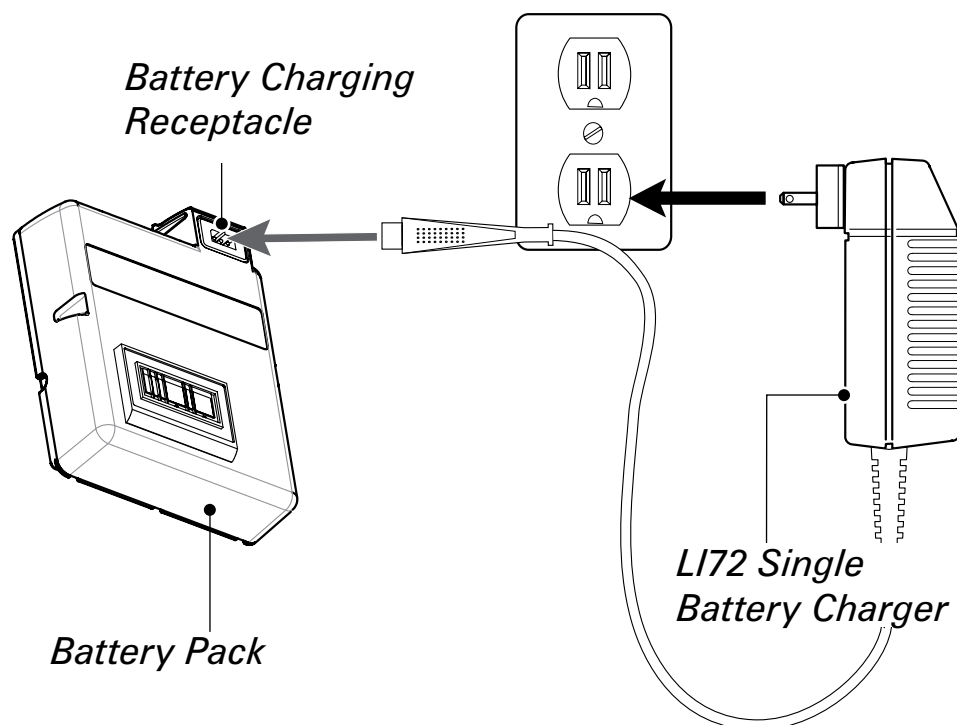
P4T/RP4T Overview
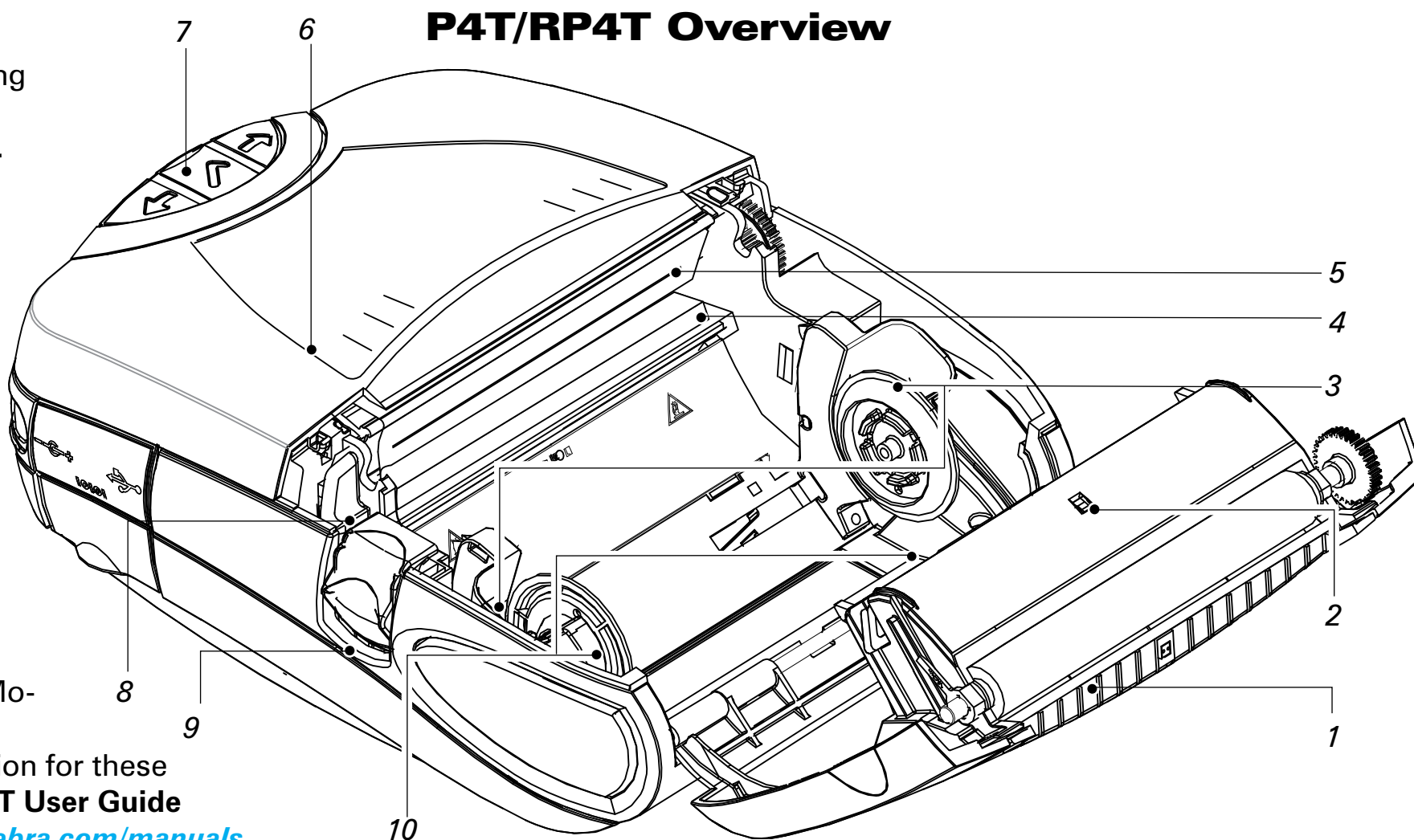
1. Platen Roller
2. Bar Sensor
3. Media Support
4. RFID Reader/Encoder (RP4T only)
5. Printhead
6. Ribbon Cartridge Cover
7. Control Panel
8. Ribbon Cartridge Cover Latch
9. Media Cover Latch
10. Media Support Disks
11. Label Peeler
12. Media Cover
13. External Media Access (optional)
14. Battery
15. Battery Charging Receptacle
16. RS232 Communications Port
17. USB Port

**P4T/RP4T
Quick Start Guide**

Introduction

Getting Started

Using the Printer

Troubleshooting

Contact Us

Charge the Battery Pack

Battery packs are shipped uncharged. Remove protective shrink-wrap and labels from new battery packs and allow them to charge completely prior to initial use.

The printer cannot be used while charging with the single charger.

Battery Charging Receptacle

LI72 Single Battery Charger

Battery Pack

The printer may be used while charging the battery pack with the AC adapter. However, prolonged use of the printer while charging will greatly increase charge times.

AC Adapter

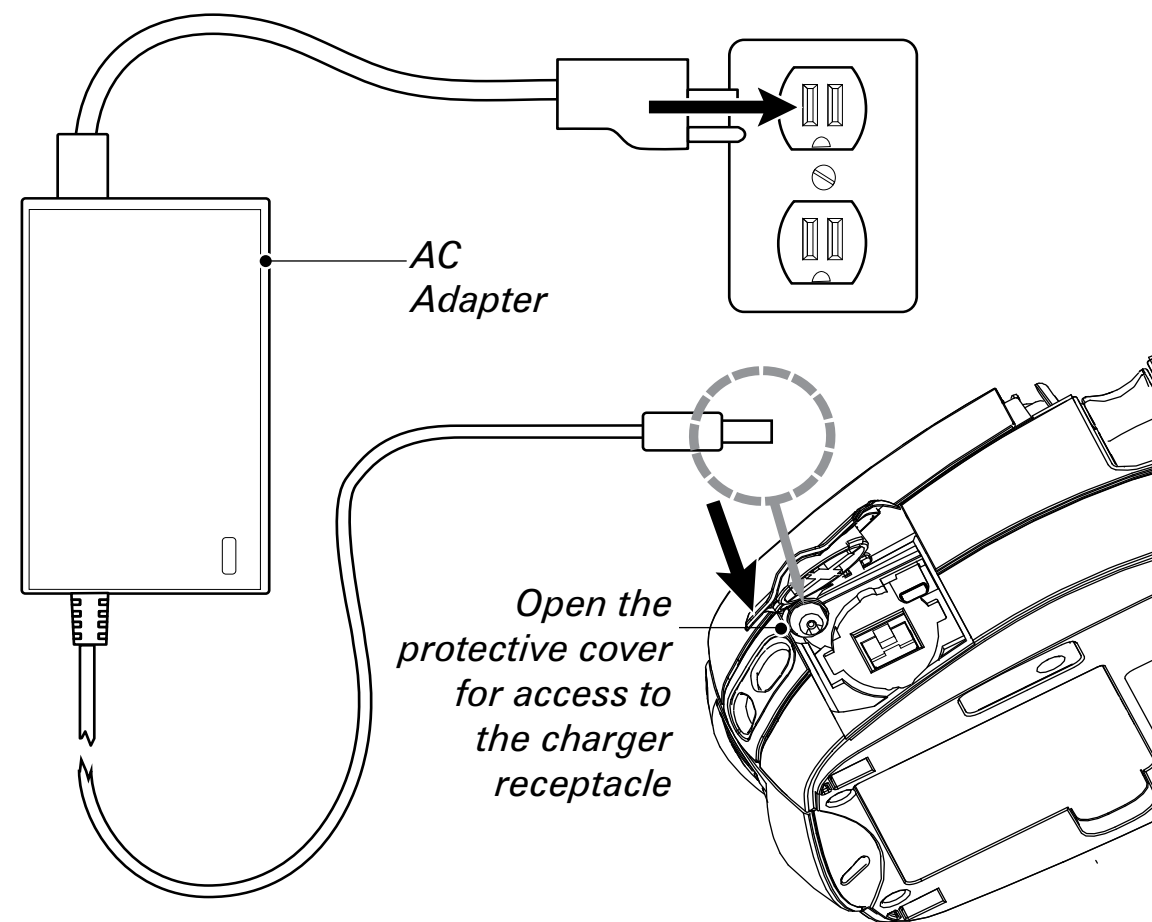*Open the protective cover for access to the charger receptacle*

Using the Single Battery Charger

If the Battery Pack is new, remove its protective wrapping and discard the warning label covering the battery contacts. If you are charging a previously used Battery Pack, remove it from the printer.
Insert the plug from the Charger cable into the Battery Charging Receptacle. Plug the Charger into an appropriate AC outlet.
The light on the front of the charger will indicate the battery pack's charge status.

Using the AC Adapter

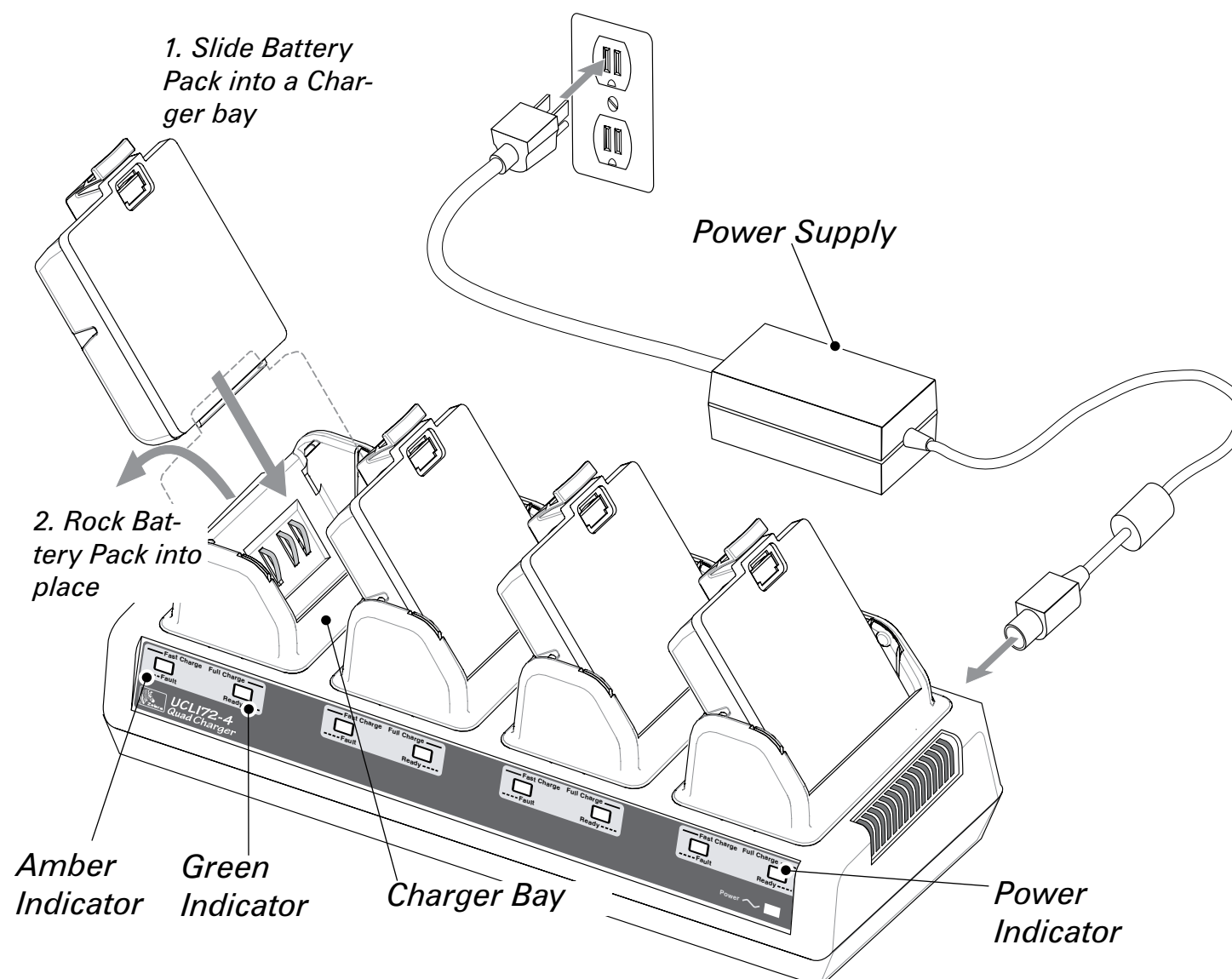If the Battery Pack is new, remove its protective wrapping and discard the warning label covering the battery contacts. Install the Battery Pack in the printer.
Insert the plug from the AC Adapter cable into the Battery Charging Receptacle. Plug the Adapter into an AC outlet.

Consult the P4T/RP4T User's Guide available at www.zebra.com/manuals for complete information on charging batteries on P4T Series printers.

P4T/RP4T
Quick Start Guide

Introduction

Getting Started

Using the Printer

Troubleshooting

Contact Us

UCLI72-4 Quad Charger

The UCLI72-4 uad Charger is an optional accessory kit allowing simultaneous charging of up to four battery packs.

1. Slide Battery Pack into a Charger bay

Power Supply

2. Rock Battery Pack into place

Amber Indicator *Green Indicator* *Charger Bay* *Power Indicator*

The UCLI72-4 Quad Charger is designed to charge up to four battery packs simultaneously. Charging time is as follows:

Battery Status	Charging Time
80% charged	2.5 Hrs.
Full charge	5 Hrs.

Plug a battery pack into any one of the four charging bays as shown opposite, noting the orientation of the battery pack. Slide the battery pack into the charging bay until it stops. Then rock the battery pack back until it snaps into place. The amber indicator directly under the battery pack being charged will turn on if the battery pack is properly inserted.

The indicators under each battery pack will allow you to monitor the charging process per the table below:

| Amber	Green	Battery Status
On	Off	Charging
On	Flashing	80% charged (O.K. to use)
Off	On	Completely Charged
Flashing	Off	Faulty battery pack

For more information refer to the instructions included with the UCLI72-4 Quad Charger, or to the more detailed discussion of the quad charger in the P4T/RP4T User Guide.

The UCLI72-4 Quad Charger has a safety feature which stops charging after six hours regardless of the battery pack's charge state.

P4T/RP4T
Quick Start Guide

Introduction

Getting Started

Using the Printer

Troubleshooting

Contact Us

Install the Battery Pack

⚠ *Always use Zebra approved battery packs and media for maximum performance and superior printing results. P4T Series printers will not operate with non-Zebra batteries.*
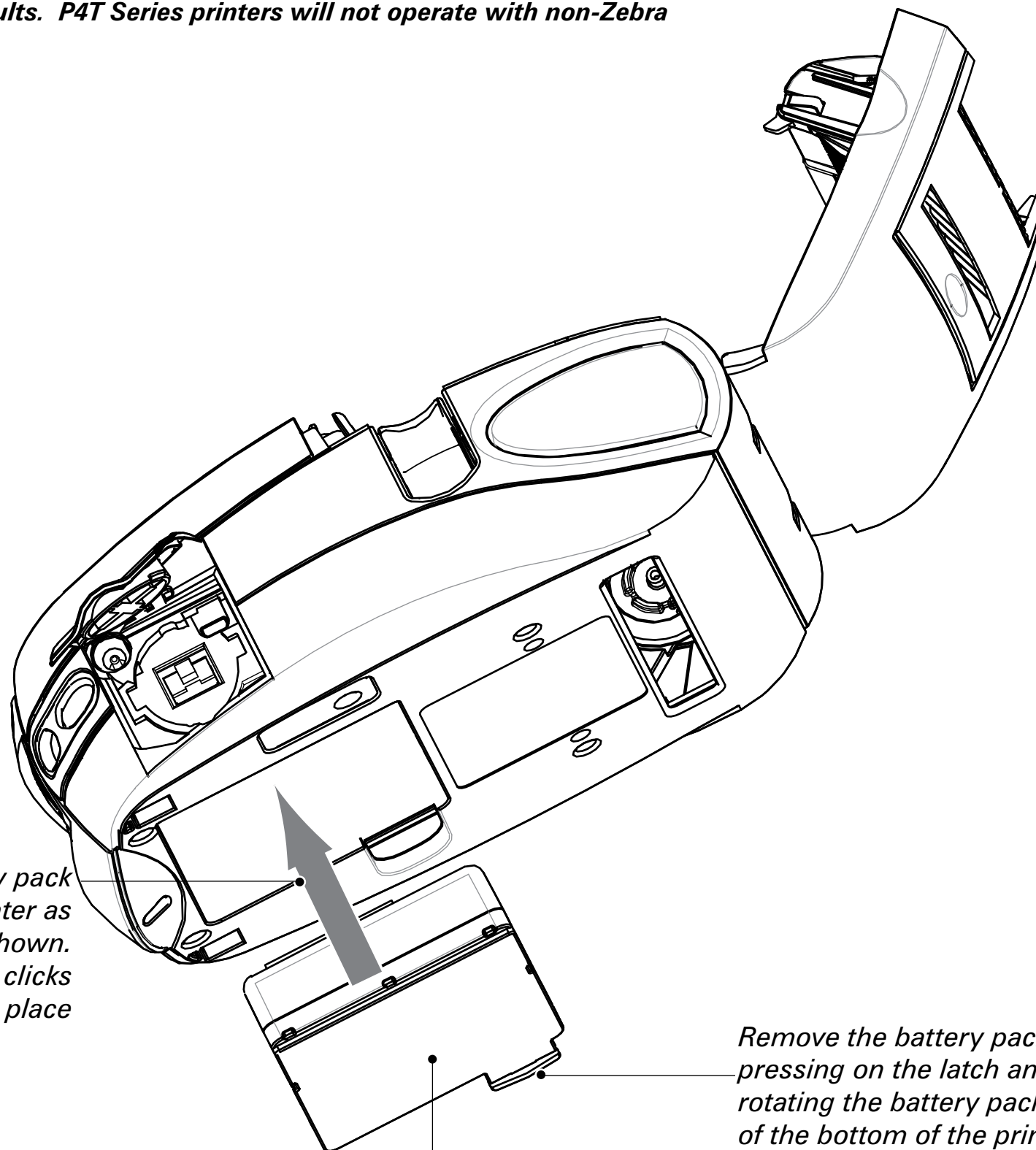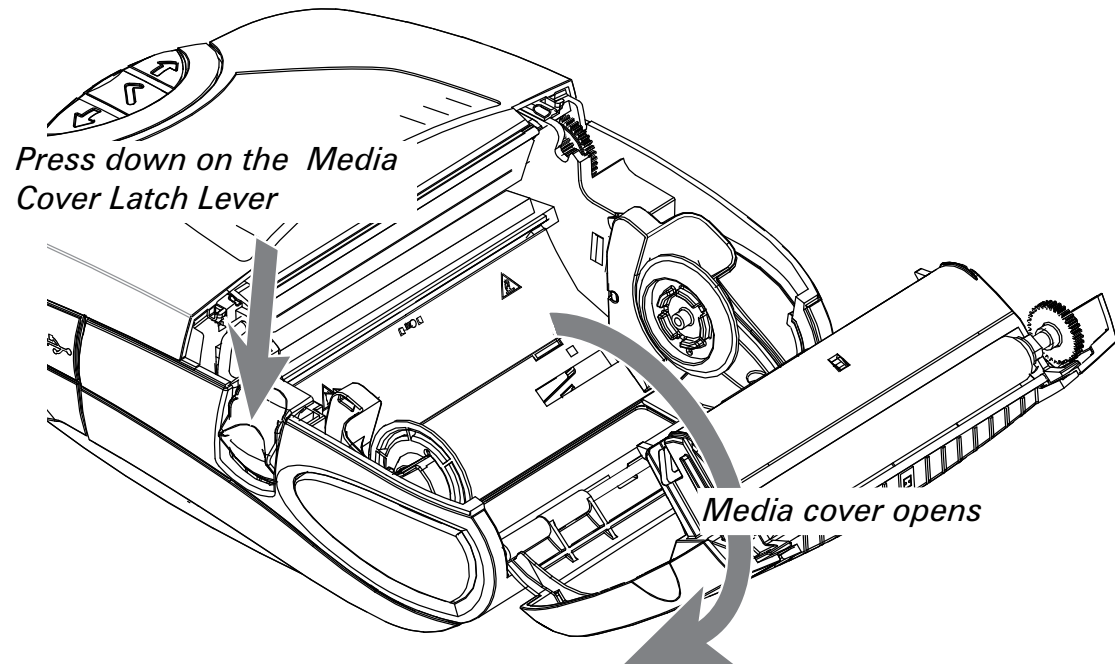
Insert a fully charged battery pack into the bottom of the printer as shown.
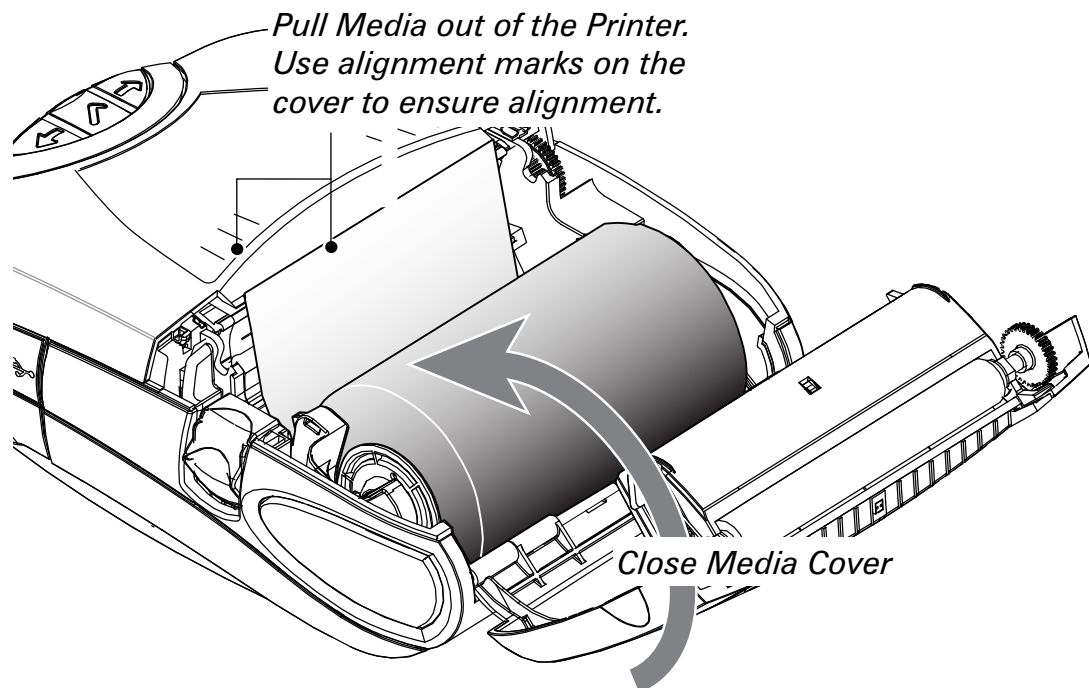*Press battery pack until it clicks into place*

Remove the battery pack by pressing on the latch and rotating the battery pack out of the bottom of the printer.
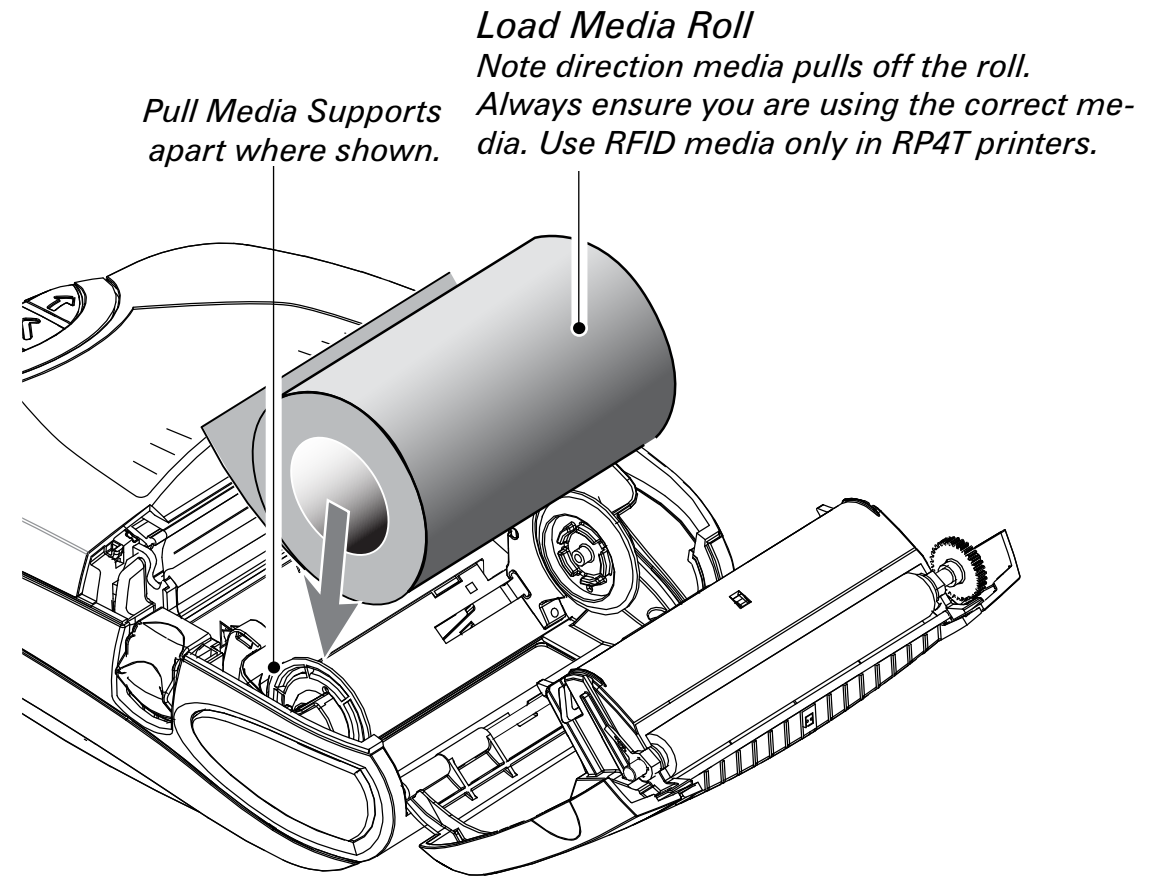
Battery Pack

4

**P4T/RP4T
Quick Start Guide**

Introduction

Getting Started

Using the
Printer

Troubleshooting

Contact Us

Load the Media

*Press down on the Media
Cover Latch Lever*

Media cover opens

1. Open the Media Cover

*Load Media Roll
Note direction media pulls off the roll.
Always ensure you are using the correct me-
dia. Use RFID media only in RP4T printers.*

*Pull Media Supports
apart where shown.*

2. Load the Media Roll

*Pull Media out of the Printer.
Use alignment marks on the
cover to ensure alignment.*

Close Media Cover

3. Close the Media Cover

Peeler Assembly.

Peeler Bar.

*4. Press down on Peeler
Assembly where shown
and slide the media until it
emerges .*

*1. Remove enough
labels from the me-
dia roll to create a 4″
[100 mm] leader.*

*3. Feed the leader over
the peeler bar and into
the printer.*

*2. Align the edge of the leader
with the index marks on the
top cover to ensure it will pass
through the peeler without
wrinkling.*
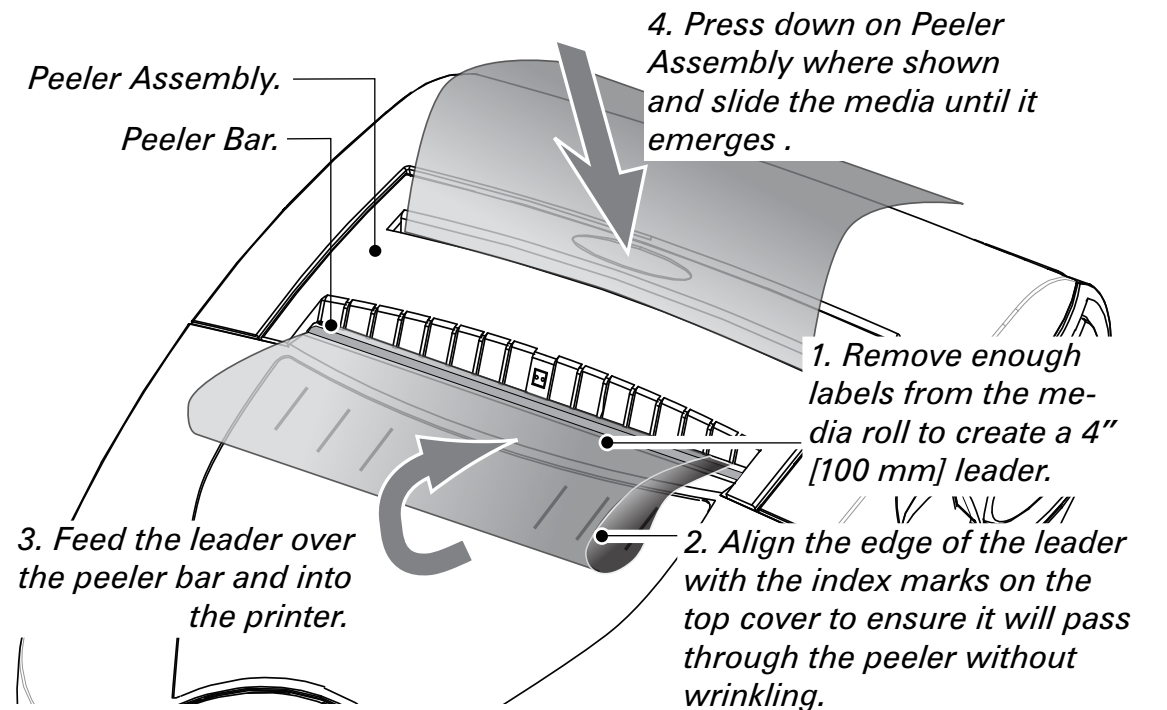
4. Insert Media into Peeler
Optional Step for label stock only

P4T/RP4T
Quick Start Guide

Introduction

Getting Started

Using the Printer
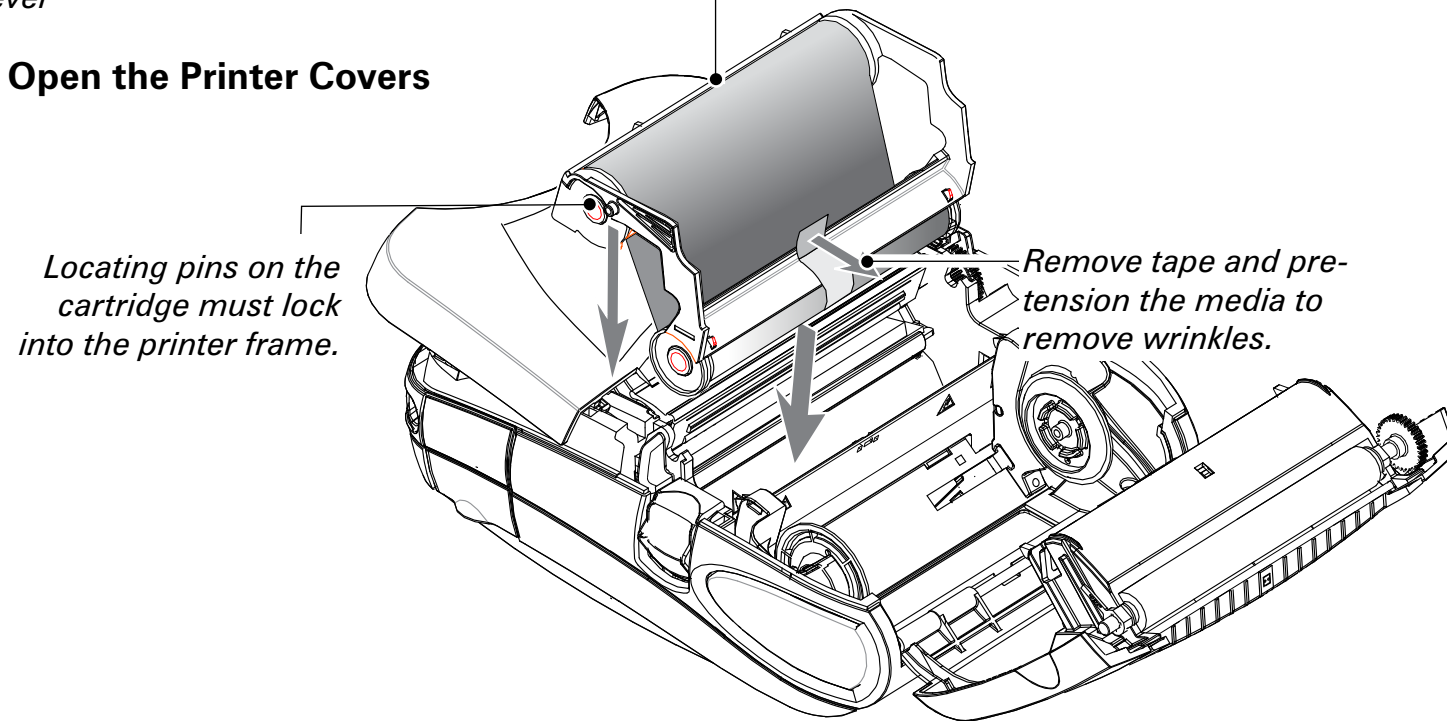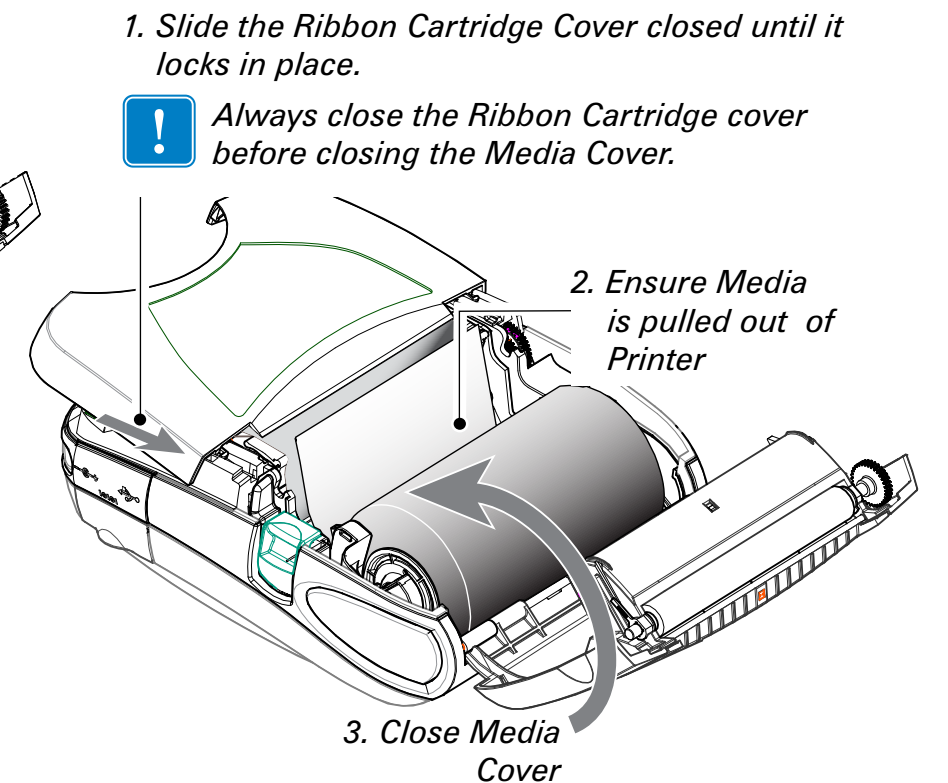
Troubleshooting

Contact Us

Load the Thermal Transfer Ribbon Cartridge

⚠️ *Use the Thermal Transfer Ribbon Cartridge only when using thermal transfer or RFID media.*

3. Press the Ribbon Cartridge Cover latch Cover will slide open

1. Press down on the Media Cover Latch Lever

2. Media cover opens

1. Open the Printer Covers

Drop the cartridge in place over the printhead. Ensure the I.D. Label faces away from the media compartment.

Locating pins on the cartridge must lock into the printer frame.
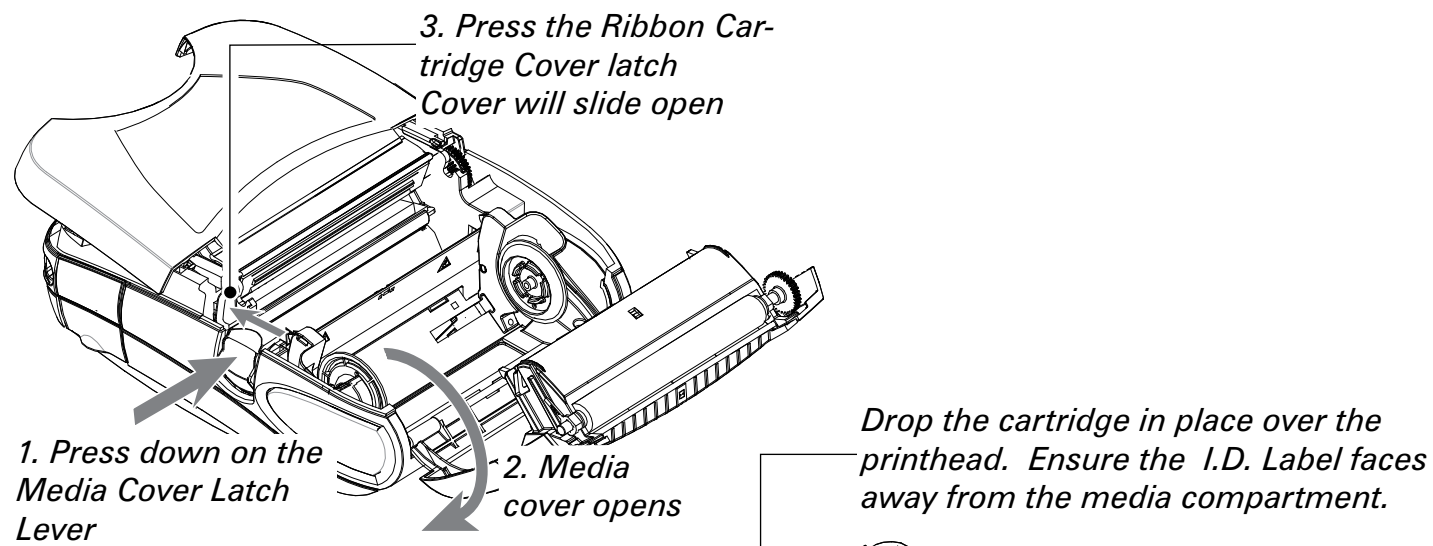
Remove tape and pre-tension the media to remove wrinkles.

2. Load the Ribbon Cartridge Cartridge

1. Slide the Ribbon Cartridge Cover closed until it locks in place.

⚠️ *Always close the Ribbon Cartridge cover before closing the Media Cover.*

2. Ensure Media is pulled out of Printer

3. Close Media Cover

3. Close the Printer Covers

P4T/RP4T
Quick Start Guide

Introduction

Getting Started

Using the Printer

Troubleshooting

Contact Us
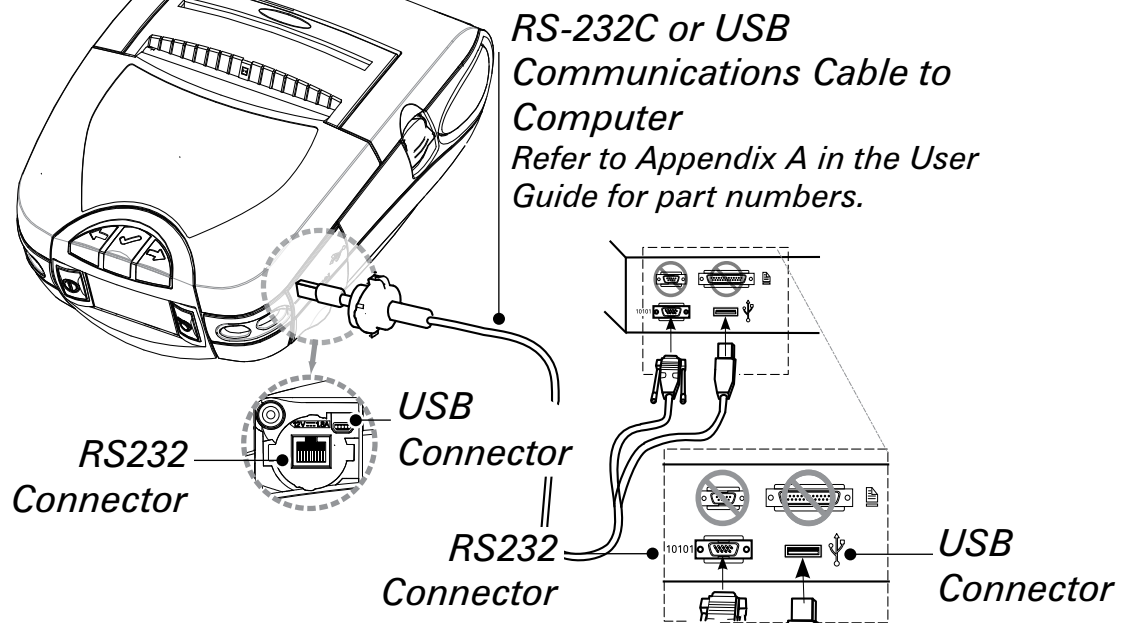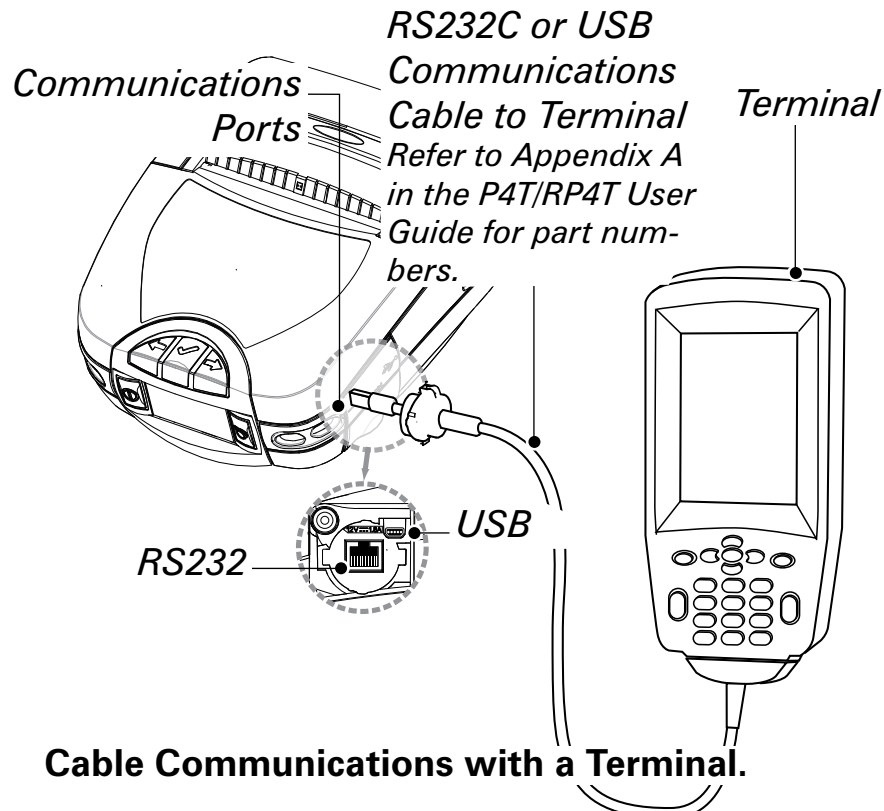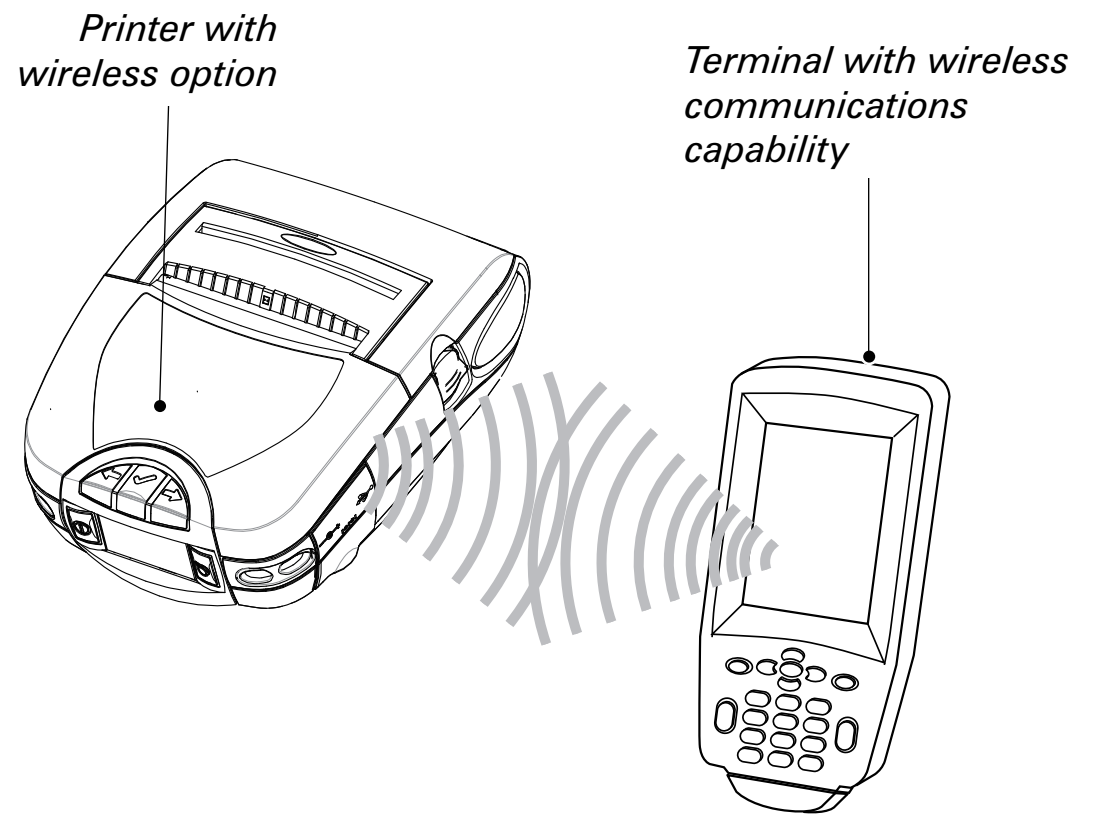
Connect the Printer

Connect The Printer With a Cable

You can connect your printer to a terminal or a PC using either RS232C or USB protocols. Refer to the Label Vista™ application available at *www.zebra.com/software* for help on setting up communications with your printer.

Communications Ports

RS232C or USB Communications Cable to Terminal
Refer to Appendix A in the P4T/RP4T User Guide for part numbers.

Terminal

USB

RS232

Cable Communications with a Terminal.

RS-232C or USB Communications Cable to Computer
Refer to Appendix A in the User Guide for part numbers.

RS232 Connector

USB Connector

RS232 Connector

USB Connector

Cable Communications with a P.C.

If you are using a USB cable to connect to a PC you may need to install the Zebra Universal Driver available at: *www.zebra.com/drivers.*
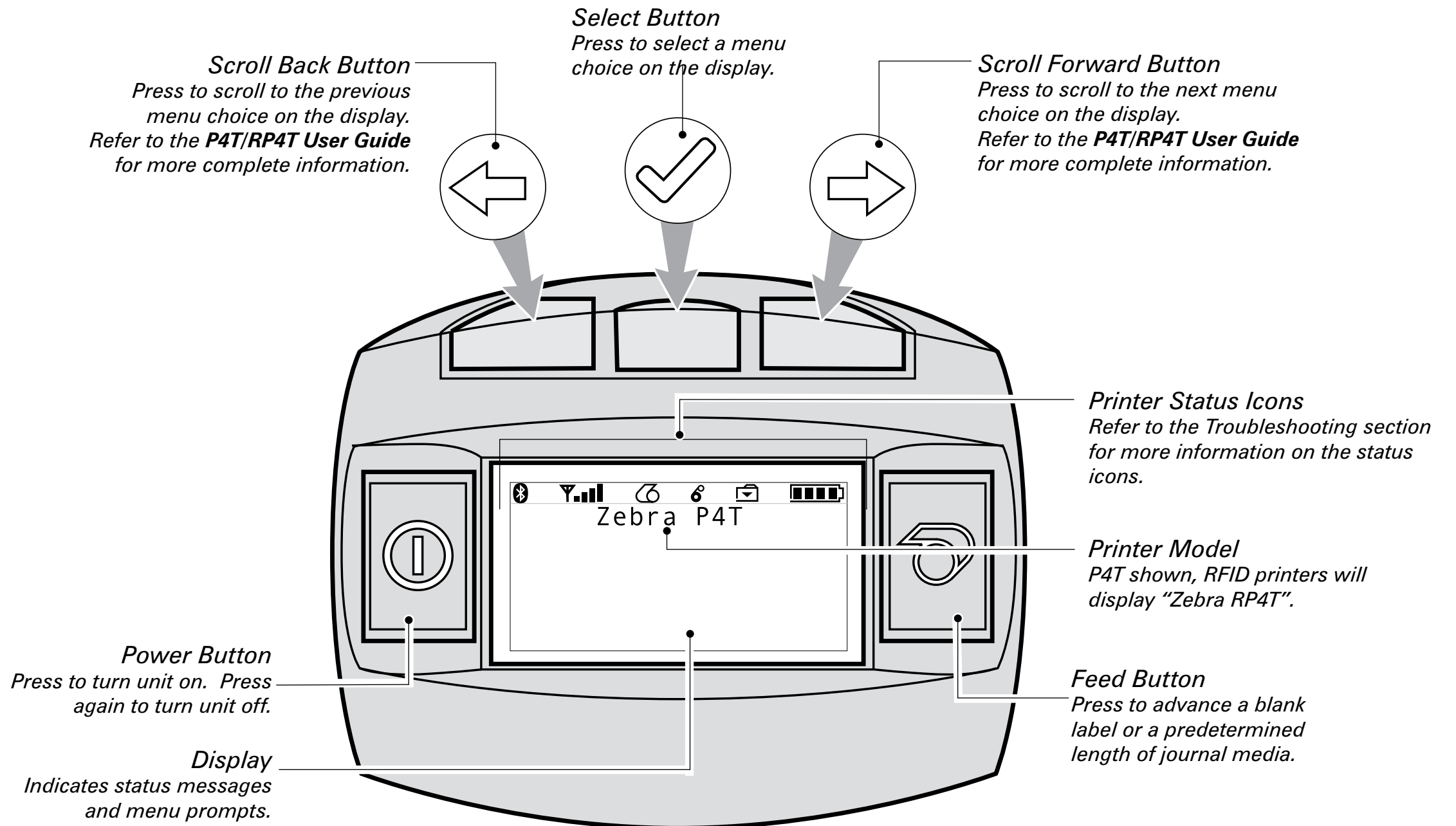
Connect the Printer by Radio

If your P4T Series printer has a radio option, you can connect wirelessly to either a terminal or a wireless network (WLAN.) A P4T printer can use either 802.11x and/or Bluetooth protocols for wireless connections. An RP4T printer can have only one radio option (802-11x or Bluetooth) in addition to the RFID encoder. Refer to the Mobile Printer Wireless Configuration Guide available at *www.zebra.com/manuals* for help on setting up wireless communications with your printer.

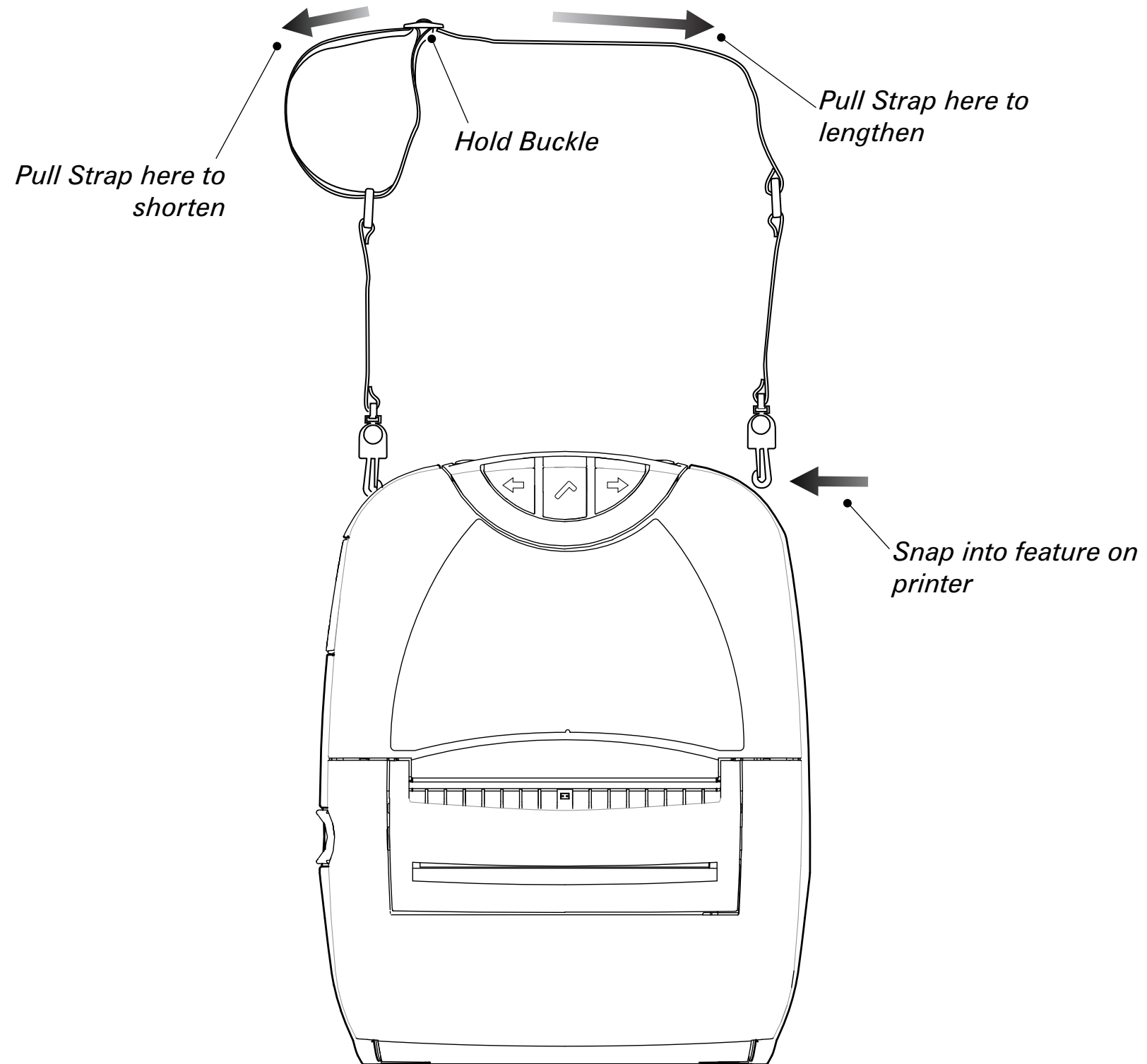*Printer with wireless option*

Terminal with wireless communications capability

P4T/RP4T
Quick Start Guide

Introduction

Getting Started

Using the Printer

Troubleshooting

Contact Us

Printer Controls

LCD and Keypad

*Refer to the **P4T/RP4T User Guide** for complete information.*

Select Button
Press to select a menu choice on the display.

Scroll Back Button
*Press to scroll to the previous menu choice on the display. Refer to the **P4T/RP4T User Guide** for more complete information.*

Scroll Forward Button
*Press to scroll to the next menu choice on the display. Refer to the **P4T/RP4T User Guide** for more complete information.*

Printer Status Icons
Refer to the Troubleshooting section for more information on the status icons.

Zebra P4T

Printer Model
P4T shown, RFID printers will display "Zebra RP4T".

Power Button
Press to turn unit on. Press again to turn unit off.

Feed Button
Press to advance a blank label or a predetermined length of journal media.

Display
Indicates status messages and menu prompts.

P4T/RP4T
Quick Start Guide

Introduction

Getting Started

Using the Printer

Troubleshooting

Contact Us

Adjustable Shoulder Strap

An adjustable shoulder strap is supplied with each printer. Its use is detailed below.

Pull Strap here to lengthen

Hold Buckle

Pull Strap here to shorten

Snap into feature on printer

- Snap each end of the shoulder strap into the retaining features on top of the printer.
- Hold the buckle and adjust the strap as shown until you achieve the desired length.

P4T/RP4T
Quick Start Guide

Introduction

Getting Started

Using the Printer

Troubleshooting

Contact Us

Cleaning the Printer

⚠ *Caution • To avoid possible personal injury or damage to the printer never insert sharp or pointed objects into the printer mechanism.*
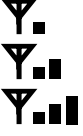
Tear Edge

Printhead Elements

Gap Sensor

Media Support Disks

Bar Sensor

Platen Surface

Label Presence Sensor

Peeler Bar
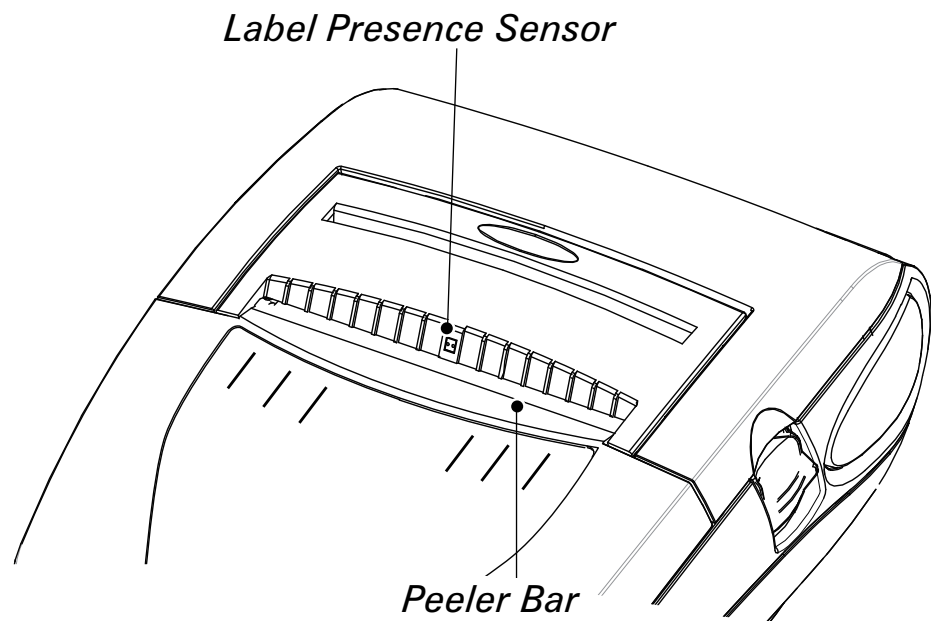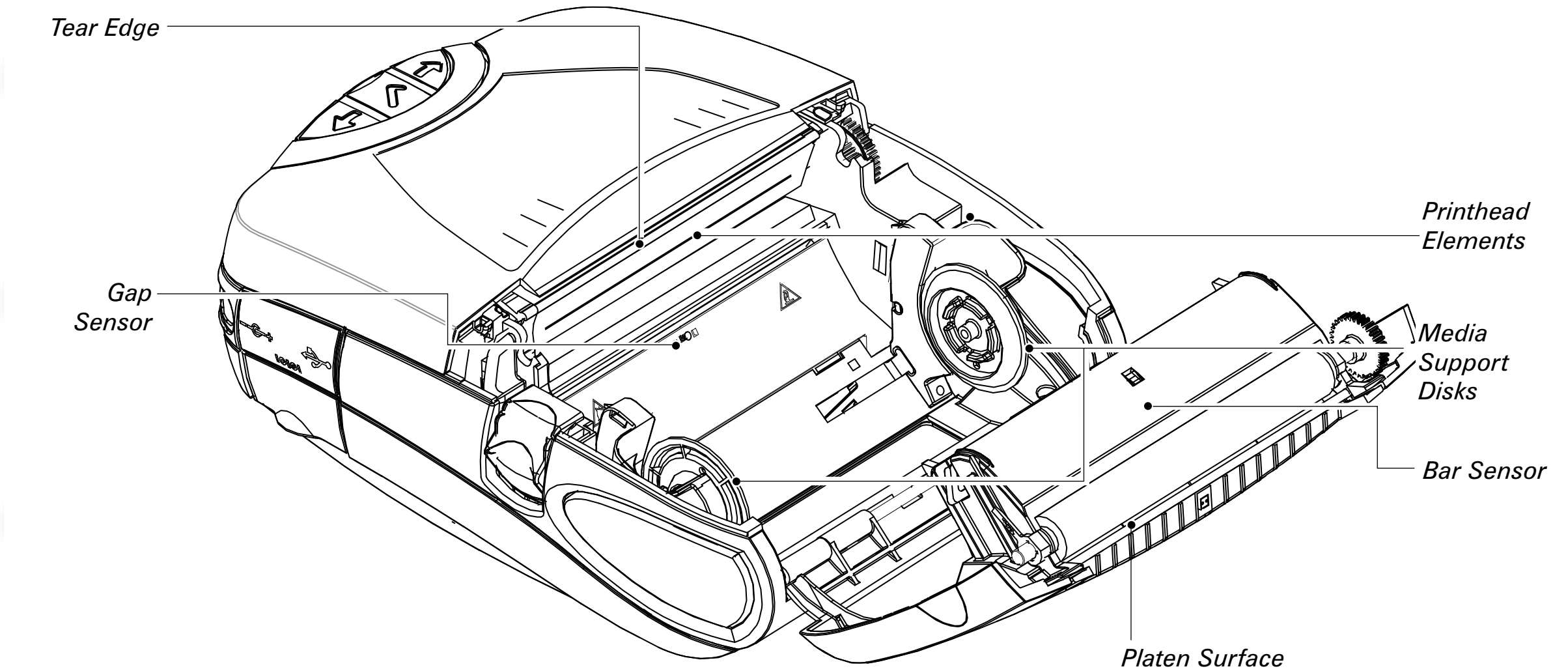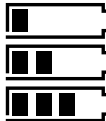
Area	Cleaning Method	Interval
Printhead Elements	Use the supplied cleaning pen to clean the print elements from end to end (the print elements are located in the thin gray line on the printhead).	After every five rolls of media (or more often, if needed)
Platen Surface	Rotate the platen roller and clean it thoroughly with the cleaning pen.	
Peeler Bar	Clean thoroughly with the cleaning pen.	
Tear Edge		
Exterior	Wipe with water-dampened cloth	As needed
Interior	Brush/air blow. Ensure the Bar Sensor, Gap Sensor and Label Present Sensor windows and the Media Support Disks are free of dust.	

P4T/RP4T
Quick Start Guide

Introduction

Getting Started

Using the Printer

Troubleshooting

Contact Us

Troubleshooting
LCD Control Panel

The top of the display shows icons indicating the status of various printer functions. Check the icon's status and refer to the referenced Troubleshooting topic on the following pages.

Icon	Status	Indication	Ref. to Troubleshooting Topic
(Bluetooth)	On	Bluetooth link established	n/a
	Off	No Bluetooth link	6,8
(RF)	On	802.11b/g RF Link established	n/a
	Off	No 802.11b/g RF Link	6,8
(signal bars)	Number of bars indicates 802.11g signal strength		n/a
(battery)	Outer element flashing	Low Battery	4, 6,
(battery bars)	Number of bars indicates battery charge level. Display will cycle through the charge level icons if it is undergoing a charge from the AC Adapter.		n/a
(battery)	Alternate Flashing	Battery pack too hot or too cold to charge	2
(media)	Flashing	Out of Media	9
(ribbon)	Flashing	Ribbon Cartridge depleted	9
(data)	Flashing	Data processing in process	n/a
Blank Screen	n/a	Battery voltage too low to turn printer on or no application loaded	1,14

Troubleshooting Topics

1. No power:
- Check that battery pack is installed properly.
- Recharge or replace battery pack as necessary.
- If the battery voltage is outside of the printer's operating range and the AC Adapter is plugged into printer, the printer will not turn on. The battery will start to charge, but will give no indication that the battery is charging. When the battery voltage reaches a valid operating range, the printer will still not turn on unless the user manually turns it on, or unplugs and re-plugs the charge cable.

2. AC Adapter is plugged in and the battery icon is flashing ⬜ or ▪▪▪▪ :
- Indication that the battery is out of its safe charging temperature range. Charging will resume when the battery reaches a safe charging temperature.

**P4T/RP4T
Quick Start Guide**

Introduction

Getting Started

Using the Printer

Troubleshooting

Contact Us

Troubleshooting Topics (continued)

3. Media does not feed:
- Be sure printhead is closed and latched.
- Check media support components for any binding.
- If unit is equipped with label presence sensor, ensure the most recently printed label is removed.
- Ensure label sensor is not blocked.

4. Poor or faded print or ▮▮▮▮ icon flashing:
- Clean printhead.
- Check battery pack. Recharge or replace as necessary. Always dispose of batteries according to local regulations. Refer to Appendix E in the P4T/RP4T Users Guide for more information.
- Check quality of media.

5. Partial/missing print:
- Check Ribbon Cartridge and/or label media alignment.
- Clean printhead.
- Ensure printhead is properly closed and latched.

6. No print:
- Replace battery pack.
- Check cable to terminal.
- Wireless units only: Restore wireless connection.
- Units using Thermal Transfer media: Ensure a Ribbon Cartridge has been installed.

7. Reduced charge life:
- Check battery pack date code. If battery pack is one to two years old, short life may be due to normal aging.
- If the battery pack has exceeded its maximum limit of charge cycles the printer will indicate that the battery pack needs re-conditioning or replacing.
- Replace battery pack.

8. ⓑ or ⓨ icon off:
- Units with Bluetooth or 802.11g option only: indicates no radio link has been established.

9. ⬚ or ⬚ flashing:
- Check that both label media and a Ribbon Cartridge are loaded and that the printhead is closed and securely latched.

10. Skips labels:
- Ensure correct media is being used.
- Ensure bar/ or gap sensor is not blocked.

11. Prints "wrinkle pattern" or partial characters:
- Ensure thermal transfer ribbon has been tensioned prior to installation. Problem will self-correct after printing a few labels.
- Ensure label media tracks properly when emerging from printer. Use the alignment marks on the media cover to ensure wrinkle free operation when loading media into the peeler assembly. Correct media alignment if necessary.

12. Prints multiple "Void" messages:
- RP4T printers only: Ensure you have installed RFID media. Printer cannot verify RF encoding on non-RFID media and will print "Void" on a pre-set number of labels before stopping.

P4T/RP4T
Quick Start Guide

Introduction

Getting Started

Using the
Printer

Troubleshooting

Contact Us

Troubleshooting Topics (continued)

13. Communication Error:

- Check that media is loaded, head is closed and all error indicators are off.
- Replace cable to terminal.

14. Screen blank

- No application loaded. Attempt to re-load application and restart printer.
- No power. See Topic "1" of this section.

P4T/RP4T
Quick Start Guide

Introduction

Getting Started

Using the
Printer

Troubleshooting

Contact Us

Contact Us

For product support, and the latest versions of all customer documentation, contact Zebra Technologies at: *www.zebra.com*

Refer to Appendix D in the P4T/RP4T User Guide for more detailed contact information

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