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Model RP4T RFID Encoder



The information in this section is provided for your convenience only and is subject to change. Go to <http://www.epcglobalinc.org> for the latest EPC information.

The RP4T printer is equipped with an RFID encoder/reader, which is integrated into the printer's printhead assembly. The RP4T encodes (writes) information on ultra-thin UHF RFID transponders that are embedded in "smart" labels, tickets, and tags. The printer encodes the information; verifies proper encoding; and prints bar codes, graphics, and/or text on the label's surface. The RP4T printer uses Zebra's extensive set of RFID commands running under ZPL programming language emulation.

The RFID transponder is sometimes called the RFID tag or an inlay. The transponder is usually made of an antenna that is bonded to an integrated circuit (IC) chip. The IC chip contains the RF circuit, coders, decoders, and memory. If you hold an RFID label up to the light, you can see the transponder's antenna, and you can feel a bump in the label where the IC chip is located.

The RP4T can encode and verify EPC (Electronic Product Code) Generation 2 Class 1 UHF passive RFID tags, in addition to printing human readable text and conventional 1 and 2-D barcode information on Zebra supplied RFID thermal transfer media.

EPC is a product numbering standard that can be used to identify a variety of items by using RFID technology. EPC Generation 2 tags offer advantages over other tag types. The tag identification (TID) memory in a Generation 2 tag includes the chip manufacturer and model number information, which can be used to identify which optional features are present on the tag. These optional features include those for data content and security.

Gen 2 tags typically have a 96-bit EPC identifier, which is different from the 64-bit identifiers common in early EPC tags. The 96-bit EPC code links to an online database, providing a secure way of sharing product-specific information along the supply chain.

Gen 2 tags also support much larger data structures. The size of user memory available (if any) varies by the model and manufacturer of the tag.



Print quality will be reduced when attempting to print over the transponder portion of an RFID label. It is recommended that RFID label layouts should not allow printing over the RFID transponder portion of a label.

Generation 2 Class 1 UHF Passive Tags Supported By The P4T

- Alien Squiggle*
- Avery Dennison*
- Raflatac Onetenna*
- Omron Wave*

Encoding and printing of an RFID label usually are completed on the first try, but some failures may occur. If you experience consistent encoding failures, it may signal a problem with the RFID tags, your label formats, or with the transponder placement.

If an RFID tag cannot be encoded, "VOID" will be printed on the label. The printer then attempts to read/encode "n" labels before the next format is attempted, where "n" is specified by the ZPL programming language "**^RS**" command. Acceptable values of "n" are 1 to 10 and the default is 3. After printing the defined number of voided RFID labels, printer will go into an error mode. The printer response to an error is defined by the RFID Setup command and will allow:

1. No Action (Label format causing the error is dropped)
2. Notification to the Host of the details of the error (Label format causing the error is dropped).

The user has control of where on the label the VOID is printed.

More information on the "**^RS**" command may be found in Zebra's RFID Programming Guide available on the corporate Web site.

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Preventive Maintenance

Extending Battery Life

- Avoid exposing the battery to direct sunlight or temperatures over 104 °F (40 °C).
- Always use a Zebra charger designed specifically for Lithium-Ion batteries. Use of any other kind of charger may damage the battery.

Caution • Do not print while an LI72 Single Charger is plugged into the unit. Unreliable battery charging can result.

- Use the correct media for your printing requirements. An authorized Zebra re-seller can help you determine the optimum media for your application.
- If you print the same text or graphic on every label, consider using a preprinted label.
- Choose the correct print darkness and print speed for your media.
- RP4T printers (with the RFID encoder/reader): adjust the encoder settings to use the minimum power required for the RFID media in use.
- Use software handshaking (XON/XOFF) whenever possible.
- Use the LCD display backlight only when necessary. Turn it off whenever it is not needed.

- Remove the battery from the printer if it won't be used for a day or more and you're not performing a maintenance charge.
- Consider purchasing an extra battery.
- Remember that any rechargeable battery will lose its ability to maintain a charge over time and can be recharged only a finite number of times before it must be replaced. The "Smart Battery" feature of the P4T Series monitors the battery pack's condition and will prompt you when a battery pack is nearing the end of its useful life.



Always dispose of used batteries properly. Refer to Appendix E for more information on proper battery disposal.

- When the printer displays "Please Recondition The Battery" and beeps five times, the user should recondition the battery to return it to optimal capacity. Refer to the [Operator Controls](#) section of this manual for information in reconditioning the battery.

General Cleaning Instructions



Caution • Always turn the printer off before cleaning.



To avoid possible personal injury or damage to the printer, never insert any pointed or sharp objects into the printer.



Use care when working near the Tear Bar. The edges are very sharp.



Caution • The printhead can become very hot after prolonged printing. Allow it to cool off before attempting any cleaning procedures.

Caution • Use only cleaning agents specified in the P4T Series cleaning instructions. Zebra Technologies Corporation will not be responsible for damage caused by any other cleaning materials used on this printer.

Clean the printer with either the cleaning pen supplied with the printer or a cotton swab saturated with alcohol.

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P4T Series Cleaning

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

Figure 17.1- P4T Series Cleaning

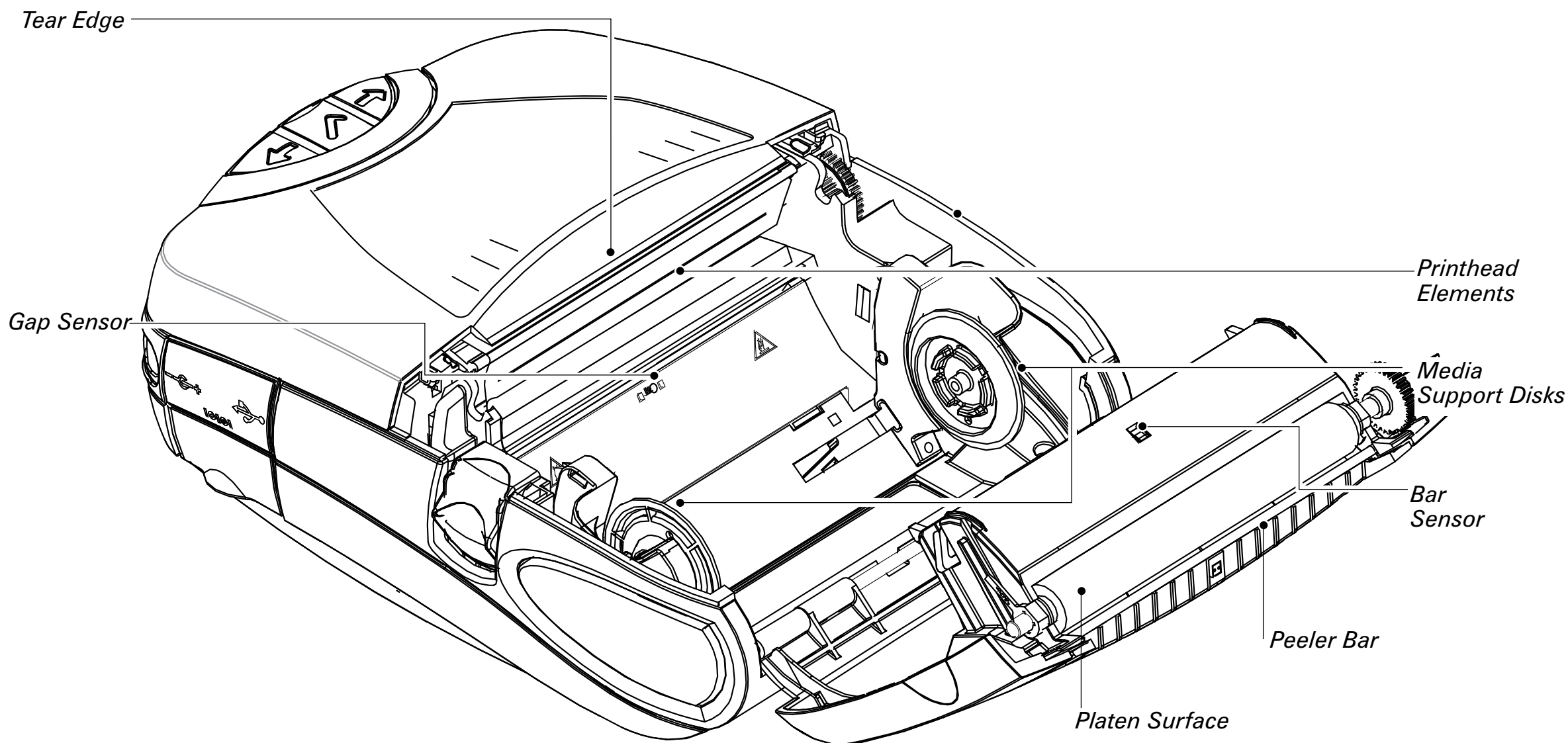
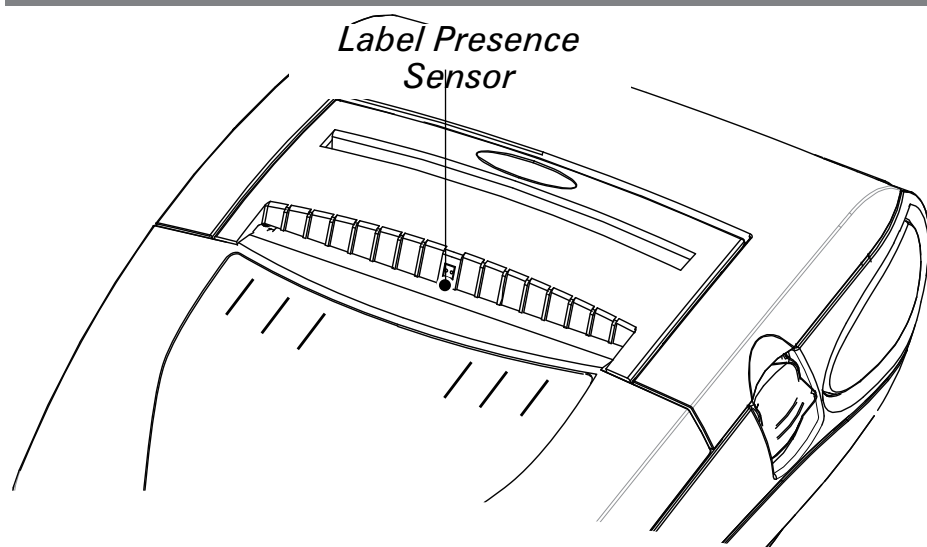


Figure 17.2- Cleaning the P4T Series Peeler Assembly







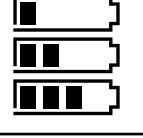
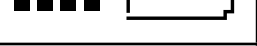



Area	Cleaning Method	Interval
Printhead Elements	Use the supplied cleaning pen to clean the print elements from end to end (the print elements are located in the thin gray line on the printhead).	After every five rolls of media (or more often, if needed)
Platen Surface	Rotate the platen roller and clean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

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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
	On	Bluetooth link established	n/a
	Off	No Bluetooth link	6,8
	On	802.11b/g RF Link established	n/a
	Off	No 802.11b/g RF Link	6,8
		Number of bars indicates 802.11g signal strength	n/a
	Outer icon element flashing	Low Battery	4, 6,
		Number of bars indicates battery charge level. Display will cycle through the battery icons if it is undergoing a charge from the AC Adapter.	n/a
	Flashing	Battery too hot or too cold to charge	2
	Flashing	Out of Media	9
	Flashing	Ribbon Cartridge depleted	9
	Flashing	Data transfer 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 is installed properly.
- Recharge or replace battery as necessary.
- If the battery voltage is outside of the range at which the printer will turn on and the AC Adapter is plugged into printer, the printer will not turn on. The battery will start to charge, but the user will have no indication that the battery is charging. When the battery reaches a valid operating voltage 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 alternately flashing and .

- Indicates that the battery is out of its safe charging temperature range. Charging will resume when the battery reaches a safe charging temperature.

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.

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Troubleshooting Topics (continued)

4. *Poor or faded print or low battery icon () flashing:*

- Clean printhead.
- Check battery pack. Recharge or replace as necessary.



Always dispose of used battery packs properly. Refer to Appendix E 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 Ribbon Cartridge has been installed.

7. *Reduced battery life:*

- Check battery pack date code. If battery is one to two years old, short life may be due to normal aging.
- Check printer display. If battery has exceeded a factory set number of charge cycles the printer will display a message that the battery 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 label media is loaded.
- Replace Ribbon Cartridge if depleted.
- Check 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.
- Ensure label design does not exceed actual media length.

11. *Prints “wrinkle pattern” or partial characters:*

- Ensure Ribbon Cartridge 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 printer 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.

13. *Communication Error:*

- Check 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.

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Troubleshooting Techniques

Printing a Configuration Label

To print out a listing of the printer's current configuration follow these steps:

1. Turn the printer off. Load the media compartment with journal media (media with no black bars printed on the back)
2. Press and hold the Feed Button.
3. Press and release the Power button and keep the Feed button pressed. When printing starts, release the Feed button.
4. The printer will create two reports. The first report is a basic functional test of the printer. It prints a series of interlocking "X" characters which acts as a test of the printhead elements and reports on basic features of the printer including memory installed.

The second report is a detailed list of the printer's configuration, including any options installed (such as radios) and current status of system settings.

Refer to Figures 18.1 through 18.2 for a sample configuration label printout.

Performing a Forced Shutdown

If the printer has locked up and is not responding to any operator inputs or external commands, from either a connected terminal or a linked LAN, you can perform a forced shutdown.

- If the printer software locks up during normal operation, force the printer to shut down by pressing and holding the Power Button for 3 seconds.
- If you try to turn the printer off normally and the software locks up, the printer will automatically shut itself off after a 10 second delay.
- If you try to turn the printer off and it does not respond, you can force an immediate shut down by pressing and holding the Power Button again within 10 seconds.

A forced shutdown will preserve the printer's data and settings.

Communications Diagnostics

If there's a problem transferring data between a terminal or WLAN, placing the printer in the Communications Diagnostics Mode (also referred to as the "DUMP" mode) will allow diagnostic analysis. The printer will print transmitted data as ASCII characters and their text representation (or a period "." if not a printable character) for any data received from the host terminal or network

To enter Communications Diagnostics Mode:

1. Print a configuration label as described above.
2. At the end of 2nd diagnostics report, the printer will print:

"Press FEED key to enter DUMP mode."

3. Press the FEED key. The printer will print: "Entering DUMP mode."



Note • If the FEED key is not pressed within 3 seconds, the printer will print "DUMP mode not entered" and will resume normal operation.

4. At this point, the printer is in DUMP mode and will print the ASCII hex codes of any data sent to it, and their text representation (or "." if not a printable character).

Additionally, a file with a ".dmp" extension containing the ASCII information will be created and stored in the printer's memory. It can be viewed, "cloned" or deleted using the Label Vista application. (Refer the Label Vista documentation for more information.)

To terminate the Communications Diagnostics Mode:

1. Turn the printer OFF.
2. Wait 5 seconds.
3. Turn the printer ON.

The printer will resume normal operation.

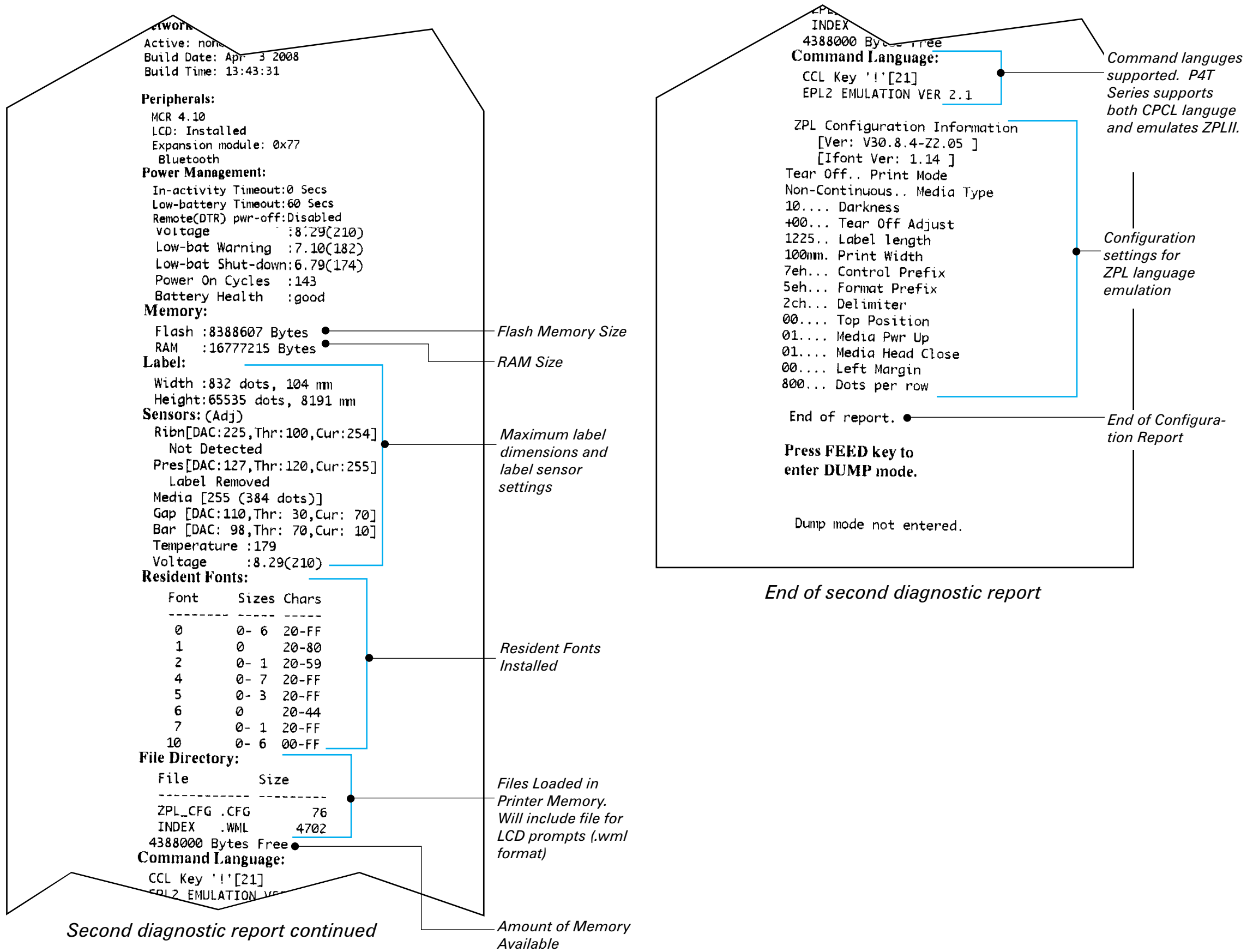
Calling Technical Support

If the printer fails to print the configuration label, or you encounter problems not covered in the Troubleshooting Guide, contact Zebra Technical Support. You will need to supply the following information:

- Model number/type (e.g. P4T, RP4T)
- Unit serial number (14 digit number, including dashes) and Product Configuration Code (PCC) (15 digit number, including dashes). Refer to Appendix D for the location of these numbers.
- Technical support contact information may be found in Appendix D of this manual.

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Figure 18.2- P4T Series Configuration Label Sample



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Specifications



Note.- Printer specifications are subject to change without notice.

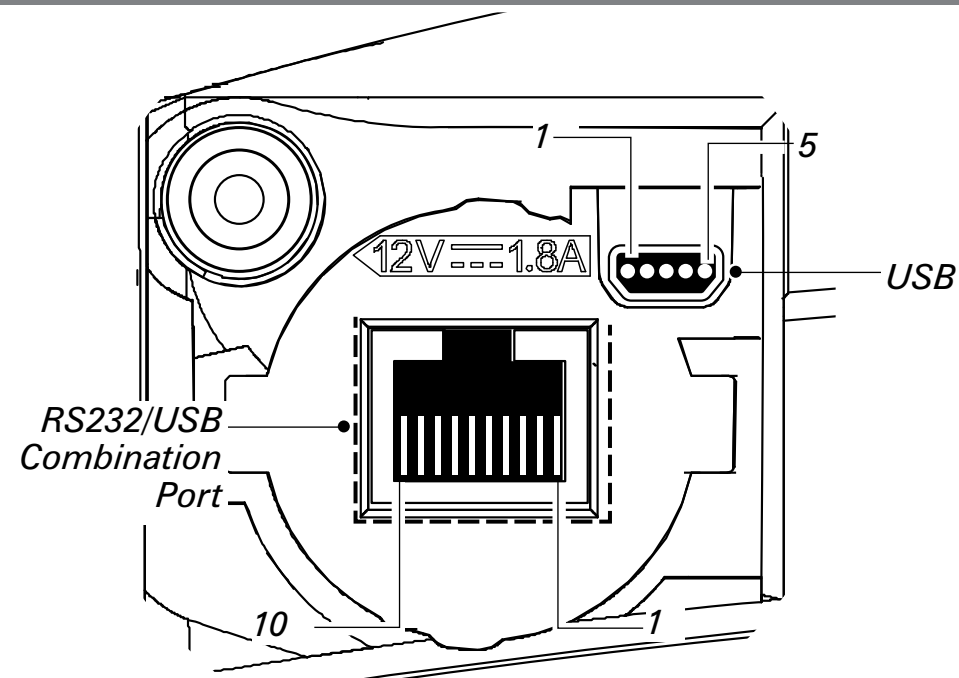
Printing Specifications

Maximum Print Width	4.09 in. [103,8 mm]
Print Speed @ 30% density	2.0 in. /sec. [50,8 mm/second] Direct Thermal mode 1.5 in./sec. [38,1 mm/second] Thermal Transfer mode
Distance from Print Element to Tear Edge	0.39 in. [9,91 mm] 41 dots
Print Head Life	1,000,000 inches (25.4 Km) min.
Print Density	203 dots/inch (8 dots/mm)

Memory/Communications Specifications

Flash Memory	8 MB flash (standard)
RAM Memory	16 MB RAM)
Standard Communications	RS-232C serial port (RJ-45 connector) Configurable Baud rate (from 9600 to 115.2 Kbps), parity and data bits. Software (X-ON/X-OFF) or hardware (DTR/STR) communication handshake protocols. Two USB 2.0 Full Speed Interface connections: (1) a "B" type USB connector, and (2) USB signals are also integrated into the RJ-45 connector. Refer to the Communications Ports specifications and Appendix A for information on USB cables.
Optional Wireless Communications	Bluetooth 2.0 compatible 2.4 GHz SRRF link Wireless LAN capabilities comply with 802.11b or 802.11g protocols Co-located Bluetooth 2.0 + 802.11b/g radios (P4T only)
Real Time Clock (RTC)	Time and date under application control. Refer to CPCL Programming Manual, available at www.zebra.com for RTC commands.

Figure 19- P4T Series Communication Ports



Communications Ports

USB

Signal Pin#	Name	Type	Description
1	VBUS		USB Bus Power
2	USB -	bi-directional	I/O signals
3	USB +	bi-directional	I/O signals
4	USB _ ID		Identifies A/B connector
5	Return		Ground

RS232/USB

Signal Pin#	Name	Type	Description
1	USB D-	bi-directional	I/O signals
2	USB D+	bi-directional	I/O signals
3	RXD	input	Receive Data
4	TXD	output	Transmit Data
5	DTR	output	Data Terminal Ready- set high when printer is on.
6	GND		Ground
7	DSR	input	Data Set Ready- low to high
8	RTS	output	Request To Send- set high when printer is ready to accept a command or data
9	CTS	input	Clear To Send from host
10	VBUS		USB Bus Power

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P4T Series Media Specifications

Media Width	2.0 in. to 4.12 in. (50,8 to 104,6 mm)
Max. continuous receipt (w/std. memory)	Continuous, dependent on installed memory
Inter-label Gap.	0.08 in. to 0.16 in. (0.12 in. preferred)(2 mm to 4 mm [3 mm preferred])
Label Thickness	0.032 in to 0.007" (0,064 mm to 0,165 mm)
RFID Label Thickness (RP4T only)	0.032 in to 0.007" (.064 mm to .165 mm), Thickness over RFID element- .023 in. [0,58 mm]
Max. Label Roll diameter.	2.25 in. (57 mm) O.D.
Label Inner Core	.75 in. (19 mm) minimum diameter; 1.38 in. (35 mm) RFID Media
Black Mark Dimensions	The reflective media black marks should extend past the centerline of the roll. Minimum mark width: 1.0 in. (25,4 mm) perpendicular to edge of media, centered within the width of the roll. Mark length: 0.094 in. (2,4 mm) parallel to edge of media
Media Requirements	

Use Zebra brand direct or thermal transfer media that is outside wound. Media may be reflective (black mark) sensing, or transmissive (gap) sensing, die-cut, or continuous. P4T Series units configured with the External Media option will accept fanfold media used with an external media supply. For die-cut labels, use only full auto dies.

P4T Series Font and Bar Code Specifications

Linear & 2-D Bar Codes Available	Codabar (NW-7)
	UCC/EAN 128
	Code 39
	Code 93
	EAN 8/JAN 8, 2 and 5 digit extensions
	EAN 13/JAN 13, 2 and 5 digit extensions
	EAN 14/JAN 14, 2 and 5 digit extensions
	Interleaved 2 of 5
	MSI/Plessey
	FIM/POSTNET
	UPC-A, 2 and 5 digit extensions
	UPC-E, 2 and 5 digit extensions
	QR Code
	MaxiCode
	PDF 417
	Aztec
	DataMatrix (using ZPL emulation)
RSS (Reduced Space Symbology®): RSS-14 Truncated RSS-14 Stacked RSS-14 Stacked Omnidirectional RSS Limited RSS Expanded	
TLC-39/Micro PDF	
Rotation Angles	0°, 90°, 180°, and 270°
Fonts Available	Standard Fonts: 25 bit-mapped fonts; 1 scalable (CG Trimvirate Bold Condensed*) Downloadable optional bit-mapped & scalable fonts via Label Vista software International character sets: Chinese 16 x 16 (trad.), 16 x 16 (simplified), 24 x 24 (simplified); Japanese 16 x 16, 24 x 24 Korean Myang 16 x 16 Greek Hebrew/Arabic

**Contains UFST from Agfa Monotype Corporation*

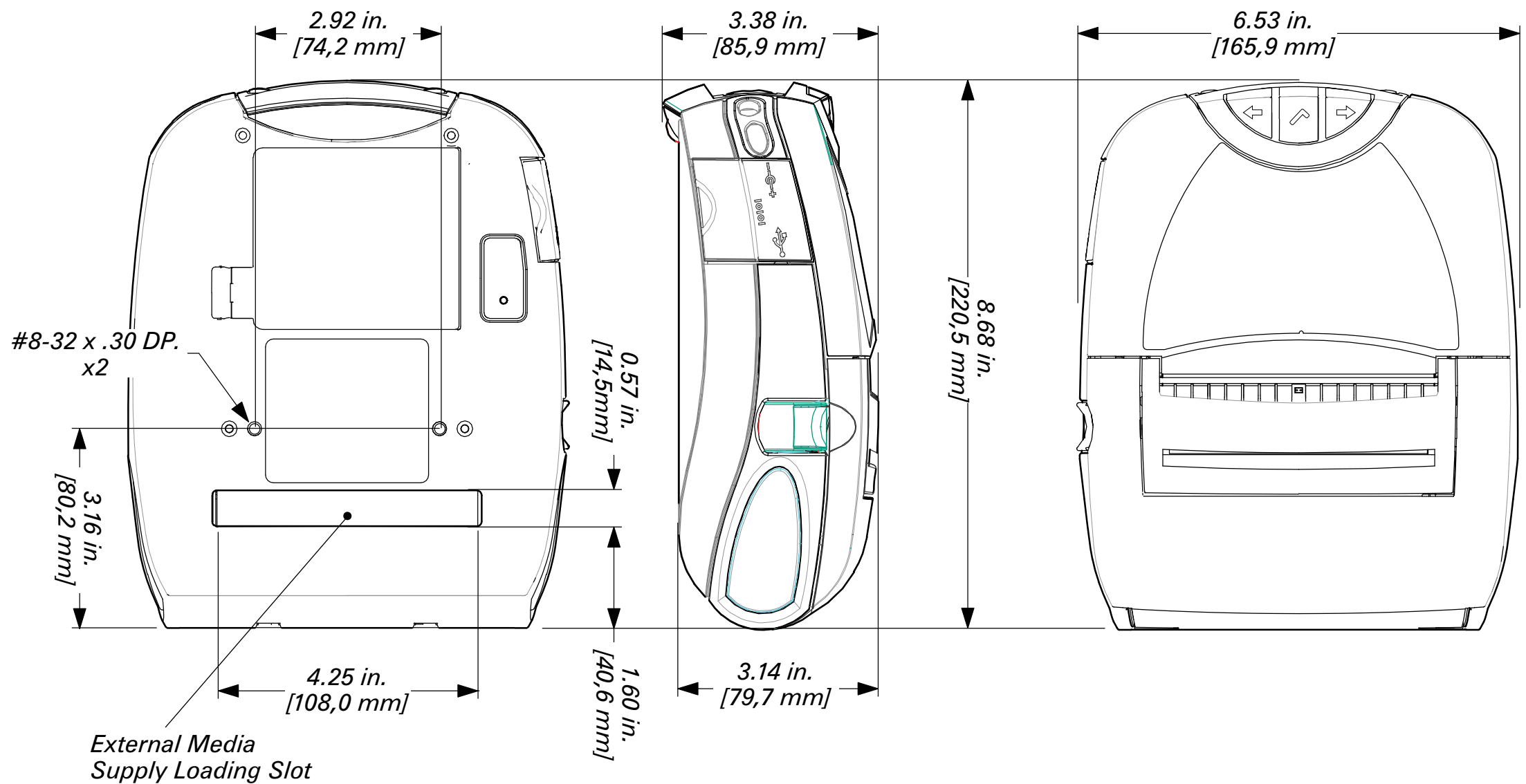
**Contains UFST from Agfa Monotype Corporation*

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Physical/Environmental/Electrical Specifications

P4T Series	
Weight w/ battery, and TT ribbon excluding media and radio option	2.9 lbs. (1,32 Kg.)
Operating Temperature	Direct Thermal: -4 °F to 122 °F (-20 °C to 50 °C) Thermal Transfer: 32 °F to 113 °F (0 °C to 45 °C)
Charging Temperature	32 °F to 104 °F (0°C to 40 °C)
Storage Temperature	-22 °F to 149 °F (-30 °C to 65 °C)
Relative Humidity	Operating: 10% to 90% (non-condensing)
	Storage: 10% to 90% (non-condensing)
Battery	7.4V Lithium-Ion 4.2 Ahr.
Intrusion Protection (IP) Rating	14 (54 w/ optional soft case)

Figure 20-P4T Series Overall Dimensions



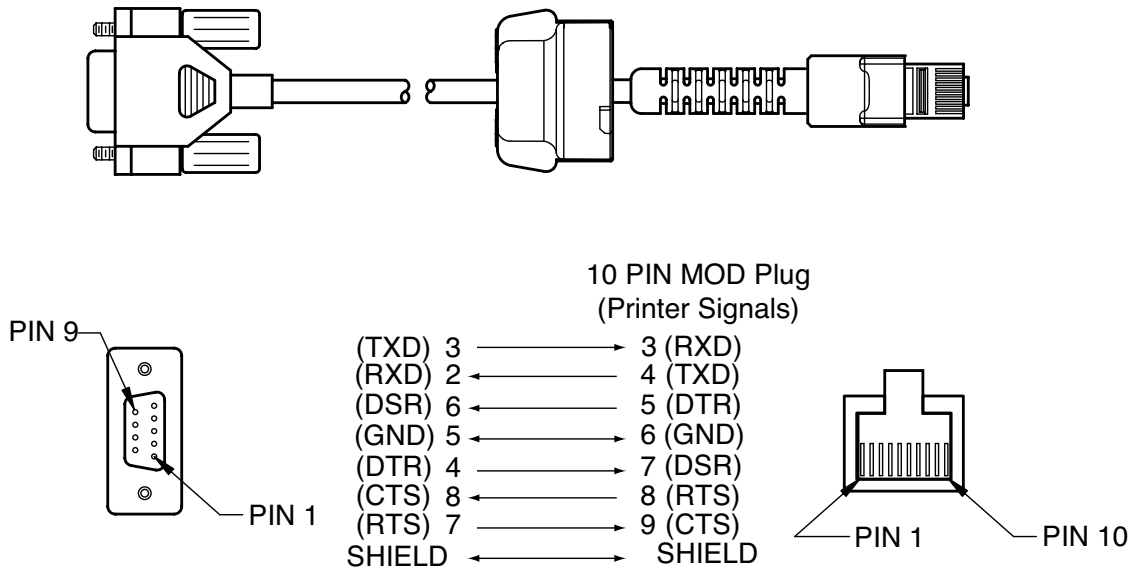
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Appendix A

Interface Cables

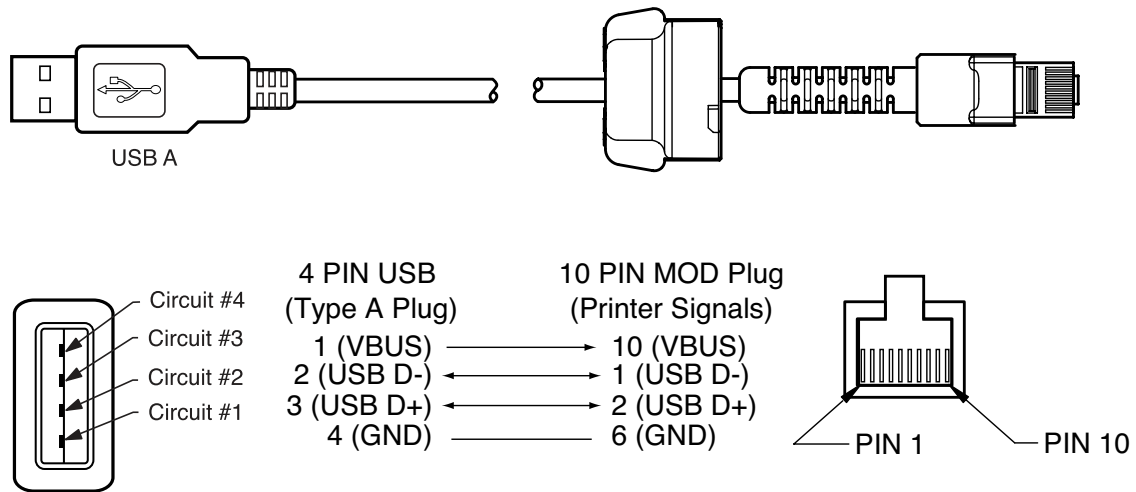
RS232 Download Cable

Part Number AK17463-008; RW Mod Plug to 9-Pin DB PC Cable



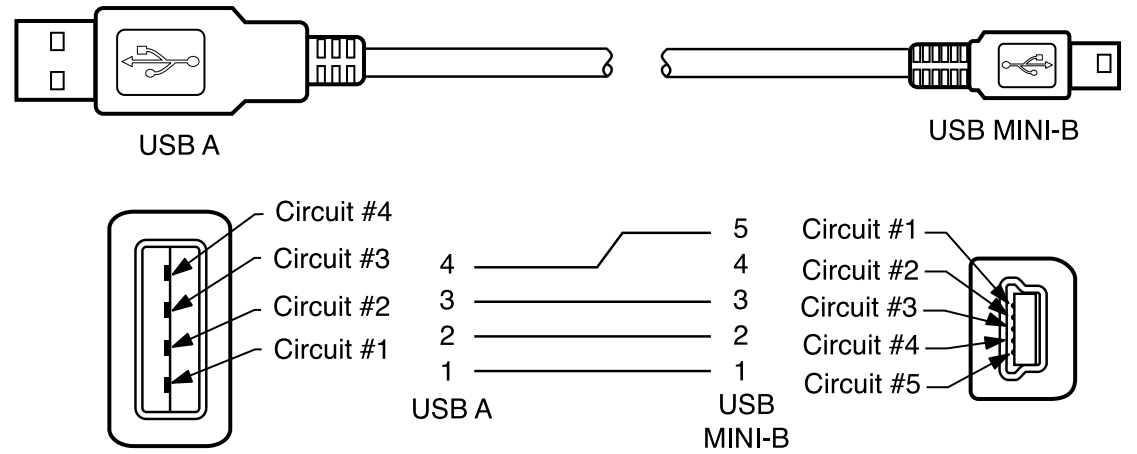
USB Download Cable

Part Number AK18666-1; RW Mod Plug to USB A Cable



USB Cable

Part Number AT17010-1; USB A to USB Mini B Cable



Contact the Factory or your Zebra Sales Representative for more information on interface cables to most major manufacturer's data terminals.

You may also visit the Zebra Web site at www.zebra.com for a listing of interface cables for all series of Zebra mobile printers

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Appendix B

Media Supplies

To insure maximum printer life and consistent print quality and performance for your individual application, it is recommended that only media produced by Zebra be used.

Advantages include:

- Consistent quality and reliability of media products.
- Large range of stocked and standard formats.
- In-house custom format design service.
- Large production capacity which services the needs of many large and small media consumers including major retail chains world wide.
- Media products that meet or exceed industry standards.

For more information about standard or custom media contact your re-seller or Zebra Technologies Corporation at +1.866.230.9495 (U.S., Canada and Mexico) and ask to speak to a Media Sales Representative.

Appendix C

Maintenance Supplies

In addition to using quality media provided by Zebra, it is recommended that the printer be cleaned as prescribed in the Maintenance section. The following items are available for this purpose:

- Cleaning Pen (12 pack), Reorder No. AN11209-1
- Cleaning Kit with Cleaning Pen, and Cotton Swabs, Reorder No. AT702-1

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Appendix D

Product Support

When calling with a specific problem regarding your printer, please have the following information on hand:

- Model number/type (e.g. P4T, RP4T)
- Unit serial number
- Product Configuration Code (PCC)

For on-line product support and the most recent versions of downloadable user documentation, firmware and software utilities, go to the Zebra Web site: www.zebra.com

In the Americas, contact

Regional Headquarters	Technical Support	Customer Service Dept
Zebra Technologies International, LLC 333 Corporate Woods Parkway Vernon Hills, Illinois 60061-3109 U.S.A T: +1 847 793 2600 Toll-free +1 800 423 0422 F: +1 847 913 8766	T: +1 847 913 2259 F: +1 847 913 2578 Hardware: ts1america@zebra.com Software: ts3america@zebra.com	For printers, parts, media, and ribbon, please call your distributor, or contact us. T: +1 877 275 9327 E: clientcare@zebra.com

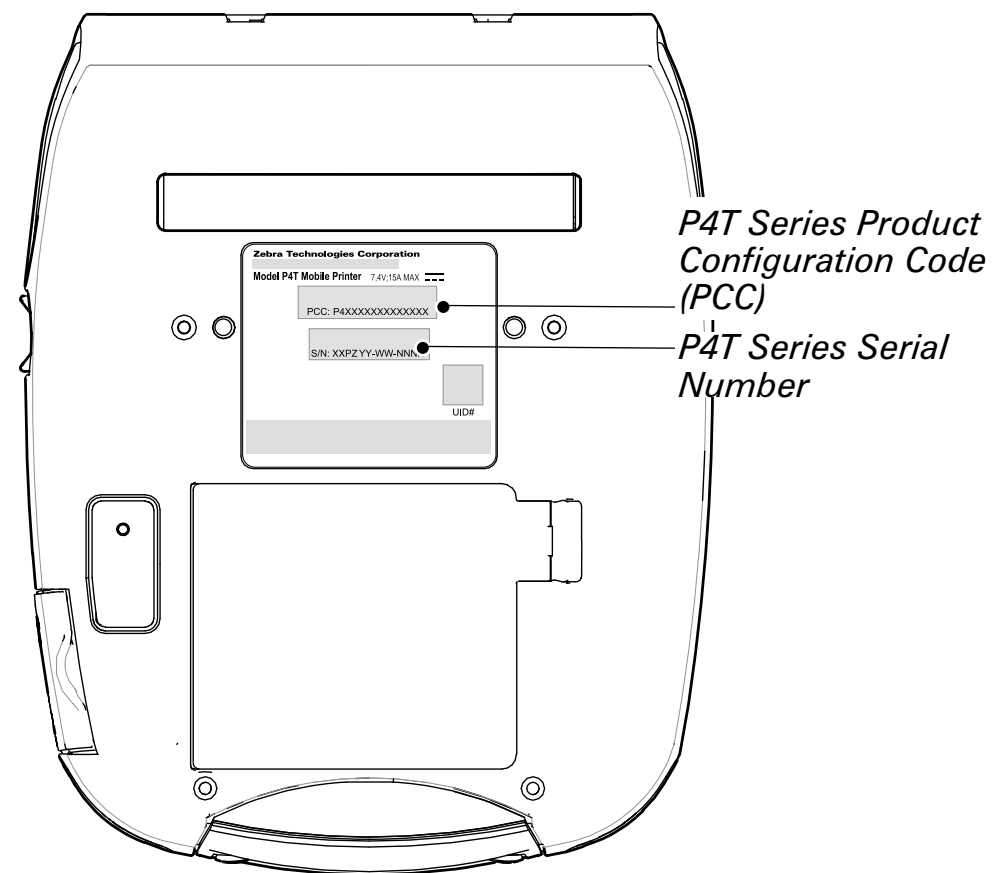
In Europe, Africa, the Middle East, and India, contact

Regional Headquarters	Technical Support	Internal Sales Dept.
Zebra Technologies Europe Limited Zebra House The Valley Centre, Gordon Road High Wycombe Buckinghamshire HP13 6EQ, UK T: +44 (0)1494 472872 F: +44 (0) 1494 450103	T: +44 (0) 1494 768298 F: +44 (0) 1494 768210 Germany: Tsgermany@zebra.com France: Tsfrence@zebra.com Spain/ Portugal: Tsspain @zebra.com All other areas: Tseurope@zebra.com	For printers, parts, media, and ribbon, please call your distributor, or contact us T: +44 (0) 1494 768316 F: +44 (0) 1494 768244 E: cseurope@zebra.com

In the Asia Pacific region, contact

Regional Headquarters	Technical Support	Customer Service
Zebra Technologies Asia Pacific, LLC Go to www.zebra.com/contact for complete contact information T: +65 6858 0722 F: +65 6885 0838	T: +65 6858 0722 F: +65 6885 0838 E: (China): tschina@zebra.com All other areas: tsasiapacific@zebra.com	For printers, parts, media, and ribbon, please call your distributor, or contact us T: +65 6858 0722 F: +65 6885 0836 E: (China) order-csr@zebra.com All other areas: csasiapacific@zebra.com

Serial and PCC Number Locations for P4T Series Printers



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Appendix E

Battery Disposal



The EPA certified RBRC® Battery Recycling Seal on the Lithium-Ion (Li-ion) battery supplied with your printer indicates Zebra Technologies Corporation is voluntarily participating in an industry program to collect and recycle these batteries at the end of their useful life, when taken out of service in the United States or Canada. The RBRC program provides a convenient alternative to placing used Li-ion batteries into the trash or the municipal waste stream, which may be illegal in your area.



Insulate depleted battery terminals with tape before disposal.

Please call +1 800 8BATTERY for information on Li-ion battery recycling and disposal bans or restrictions in your area. Zebra Technologies Corporation's involvement in this program is part of our commitment to preserving our environment and conserving our natural resources.

Outside North America, please follow local battery recycling guidelines.

Product Disposal



Do not dispose of this product in unsorted municipal waste. This product is recyclable. Please recycle according to your local standards. For more information, please see our web

site at: <http://www.zebra.com/environment>