ITEM

# **Handheld Computers with Mobile Printers**

DESCRIPTION	Handheld Computers
MAKE	Motorola
MODEL	MC75A8
QUANTITY	15
DESCRIPTION	Attached is the closest description of item found online.
	For more detailed information, please reference make
	and model number provided.

SERIAL ID#'S	11221522500364
	11221522500425
	11221522500426**
	11221522500437
	11221522500438
	11221522500444
	11221522500445
	11221522500449
	11221522500451**
	11221522500457
	11221522500463**
	11221522500467**
	11221522500468
	11221522500472
	11221522500476*

### **ITEM NOTES** \*Currently experiencing software failure (QTY: 1)

\*\*Currently experiencing hardware failure (QTY: 4)
Includes 15 individual matching Ethernet data and charging stations with the correct charging cables, spare batteries that can be charged simultaneously with the units.

DESCRIPTION	Mobile Receipt Printers
MAKE	Zebra
MODEL	RW220
QUANTITY	15
DESCRIPTION	Attached is the closest description of item found online.
	For more detailed information, please reference make
	and model number provided.

SERIAL ID#'S	XXRDJ112500001
	XXRDJ112500002
	XXRDJ112500003
	XXRDJ112500004
	XXRDJ112500005
	XXRDJ112500006
	XXRDJ112500007**
	XXRDJ112500008
	XXRDJ112500009*
	XXRDJ112500010
	XXRDJ112500013
	XXRDJ112500017*
	XXRDJ112500026*
	XXRDJ112500042**
	XXRDJ112500089*

<b>ITEM NOTES</b>	*Currently experiencing software failure (QTY: 4)
	**Currently experiencing hardware failure (QTY: 2)





# MC75A SERIES

PREMIUM 3.5G WORLDWIDE ENTERPRISE DIGITAL ASSISTANT (EDA)

### THE NEXT EVOLUTION IN EDA POWER

Motorola's MC75A Series takes its place as one of the world's premier EDAs, offering more enterprise-class features and functionality than any other device in its class. Turbocharged with many Motorola Mobility Architecture eXtension (MAX) features, the MC75A addresses top business mobility needs, offering maximum processing power, rugged design, flexibility in extending solution reach, data capture capabilities, connectivity options, security and manageability. Three models meet the needs of every worker: a WLAN-only model for workers inside the four walls; a WLAN model designed to meet the special needs in healthcare environments; and a 3.5G WWAN/WLAN model for your field workforce. Add a field proven ergonomic design that is easy-to-hold, easy-to-carry and easy-to-use, and you have maximum value in a minimum footprint — all at the right price.

### **MAXIMUM POWER**

The MC75A offers the most robust processing platform in the EDA class today, from operating system to memory architecture, including Microsoft Windows Mobile 6.5; a PXA320 processor with 806 MHz of blazing speed; and 256 MB RAM/1GB Flash with a user accessible microSD slot to accommodate up to 32GB of additional storage. As a result, the MC75A delivers consistent desktop-like performance, regardless of whether your applications incorporate high resolution video, documents and images or you need thick client applications.

### **MOTOROLA'S MOST RUGGED EDA**

With Motorola MAX *Rugged*, you can count on reliable operation inside and outside the enterprise — the MC75A meets or exceeds MIL-STD 810G requirements for stress (drop) testing as well as IEC specifications for tumble and sealing. The MC75A is built to survive drops to concrete from as high as 5 ft./1.52 m. Motorola's tumble drum test proves that the device can endure 1,000 consecutive 1.6 ft./.5 m tumbles (2,000 hits) — and still deliver dependable performance. And the IP54 sealing rating enables use in dusty environments and exposure to rain or spills. The result is a dramatic reduction in repair requirements and downtime, providing a strong return on asset (ROA).

In addition, the disinfectant-ready MC75A Series helps prevent the spread of germs to patients and caregivers in a hospital as well as shift workers in other industries who share devices. All models can be sanitized with many common cleansers, without harming the plastics or the sensitive scanning components.

### **MAXIMUM FLEXIBILITY**

The MC75A offers a level of flexibility that puts it in a class of its own, with a feature set that includes many Motorola-unique capabilities.

**The only EDA to offer five keypads**. Numeric, QWERTY, DSD, AZERTY and QWERTZ keypads enable maximum data entry simplicity for virtually any application anywhere in the world. Enterprises can standardize on a single device for many different workgroups with different application needs, simplifying the mobility architecture as well as reducing training and support costs.

Motorola Integrated Voice Solutions: unparalleled integrated voice interoperability. Inside the four walls, different workgroups often require different types of devices that run on different networks — from mobile computers and VoWLAN devices to two-way radios. The result is 'islands of voice' — the inability for cross-communications between device families. The MC75A eliminates this issue. The integrated TEAM Express voice client enables push-to-talk instant communications with other TEAM Express-enabled Motorola mobile computers, TEAM smartphones and two-way radios (Radio Link Server required). With powerful and highly cost-effective one-to-one and one-to-many voice communications between all workers inside the four walls, the enterprise enjoys lightning fast

response times, improved productivity and decision-making — as well as increased customer service, satisfaction and retention.

Motorola MAX Locate for more robust location-based applications. Integrated aGPS/GPS technology opens up a world of possible location-based applications — including real-time navigation, better fleet management, the ability to geostamp a photo for proof of condition or capture coordinates for proof of delivery in transportation and logistics or proof of service for inspections and maintenance. The best-in-class implementation includes the SiRFstarIII GSC3f/LP GPS chipset for robust coverage even in challenging urban canyons and areas of dense foliage, providing more users with location-based services in more areas. And the low-power chipset delivers top-notch accuracy with minimal power requirements, conserving battery power.

### **Enterprise-class motion sensing with Motorola MAX**

Sensor. MAX Sensor enables business-class implementation of one of the most popular consumer-style cellular phone technologies in the MC75A — the accelerometer. In addition to the typical ability to automatically switch between portrait and landscape display based on the orientation of the device, many additional features can be enabled in seconds, right out of the box. Power management features help ensure full shift battery power. For example, the device can automatically revert to sleep mode if movement is not detected in a specified period of time, or if the display is face down. The ability to detect and log drops helps increase worker accountability for device condition. And the open architecture allows enterprises to integrate the accelerometer data into customized applications that can help improve the safety of field service technicians working in remote areas and prevent device theft.

### MAX Data Capture for maximum business functionality.

The MC75A captures virtually any type of data and performs almost any business function, streamlining and reducing errors in your business processes. As the inventor of bar code scanning, Motorola offers unparalleled 1D and 2D scanning technology. The SE950 scan engine provides best-in-class 1D bar code scanning performance, while the SE4500, Motorola's revolutionary imager engine, delivers equally stunning performance on 1D and 2D bar codes. Two options provide the flexibility to address your unique bar code requirements. For 1D or 2D intensive applications and maximum reading distance, choose the SR4500-SR. For 1D and 2D intensive applications with smaller and high density bar codes, including those found on some driver's licenses, choose the SR4500-DL. In addition, the SE4500 offers omni-directional scanning, eliminating the need to align bar code and scanner, and providing the intelligence to capture even damaged and poor quality bar codes. The integrated 3.2 megapixel autofocus color flash-enabled camera enables the easy capture of high-resolution photographs, video footage and documents — complete with legible fine print.

### THE MC75A SERIES IN ACTION INSIDE THE FOUR WALLS



### Retail

The MC75A enables the complete mobile associate, providing the power to answer customer questions, manage inventory, line bust, process purchases and more, right on the spot.



### Manufacturing

The MC75A offers the rugged design required to survive life in a manufacturing plant, enabling remote system monitoring, inventory counts, replenishment, ID verification and more.



### Healthcare

Able to withstand wipe downs and sanitization, the MC75A enables many mobile point of care (POC) applications, from medication administration and specimen collection to nurse call, charge capture and inventory management.

# COMPREHENSIVE ACCESSORY FAMILY EXPANDS SOLUTION REACH

The Magnetic Stripe Reader (MSR) and Mobile Payment Module (MPM) enable workers to process purchases virtually anywhere in the world — from the retail sales floor to the customer's doorstep. Third party peripherals, such as an RFID reader, enable users to leverage RFID data to streamline and error-proof inventory and other workflows. Motorola's Bluetooth®-enabled RS507 Imager, worn on two fingers, provides hands-free scanning convenience. And a trigger handle allows workers to switch between handheld and industrial-style gun form factors in seconds, providing comfort for the most scan intensive tasks.

### **MAXIMUM CONNECTIVITY OPTIONS**

With the MC75A, your workers hold the universe of wireless connectivity options in their hands. WWAN functionality provides a connection to the fastest available cellular networks. Support for 3.5G HSDPA or CDMA EVDO Rev A provides workers anywhere in the world with high-performance broadband speeds. Comprehensive 802.11a/b/g support provides a seamless costeffective WLAN connection inside the four walls and in hot spots — and support for 802.11a allows the granular segmentation of voice traffic, ensuring quality of service for VoWLAN communications. Bluetooth provides a wireless connection to a wide range of Bluetooth-enabled peripherals, such as headsets and printers. Support for the latest Bluetooth technology — v2.1 with EDR — provides simple one-step easy pairing, improved security and reduced power consumption. And support for IrDA enables wireless communications with a wide range of existing business equipment — from medical equipment to fax machines.

# GOVERNMENT-GRADE SECURITY WITH MOTOROLA MAX SECURE

The Motorola MAX *Secure* feature set keeps your data safe and secure, regardless of whether the MC75A is connected to the WWAN or the WLAN. Native FIPS 140-2 Level 1 certification and support for the most advanced encryption and authentication algorithms as well as Virtual Private Networks (VPNs) provides the compliance required for government level applications as well as stringent industry regulations — including PCI in retail and HIPAA in healthcare. And Motorola's deep knowledge of wireless infrastructure enables the integration of FIPS and other security requirements without the typical impact on WLAN performance.

# MAXIMUM EASE OF APPLICATION DEVELOPMENT AND DEVICE MANAGEABILITY

In addition to the right set of features for your users and applications, the MC75A also offers the functionality required to reduce IT time and cost, including:

### Rapid and cost-efficient application development.

Motorola MAX *MPA* (Motorola Platform Architecture) provides an industry standard platform that enables easy integration into your existing technology environment. Since all Motorola mobile computers share this common platform, existing applications developed for other Motorola mobile computers can be ported effortlessly and seamlessly to the MC75A, enabling exceptionally rapid deployment and improving the return on investment for existing applications. Additionally, Motorola's

### THE MC75A IN ACTION IN THE FIELD



### Field Service/Sales

The MC75A supports robust automation out in the field, enabling real-time dynamic work order assignment, proof of service, sales order management, asset management and the ability to process COD transactions.



### **Transportation & Logistics**

With a rugged design that can survive life in a truck, the MC75A enables real-time pick-up and delivery, inventory management, proof of location and condition and more.



### Government

Its rugged design and FIPS 140-2 certification enable state, local and federal governments to leverage the MC75A to improve operational efficiency and better protect revenues — and constituents.

robust award winning partner channel provides access to a world of well-tested best-in-class line of business applications, further reducing application development time and costs.

Another Motorola tool, PocketBrowser, is built on Pocket Internet Explorer and Internet Explorer, providing a familiar and easy-to-use environment that enables the simple and rapid development of applications that incorporate the wide range of advanced data capture capabilities integrated into the MC75A — from bar code scanning to signature capture.

Comprehensive centralized tools for cost-effective day-to-day management. Compatibility with the Motorola Mobility Suite enables extraordinary centralized control of your MC75A devices. Motorola Mobility Services Platform (MSP) allows IT to remotely stage, provision, monitor and troubleshoot tens of thousands of devices inside and outside the four walls virtually anywhere in the world, all from a central location, radically reducing one of the largest costs associated with mobility — day-to-day management. Device-level intrusion protection and Mobile Virtual Private Network (VPN) solutions allow the addition of extra layers of security to protect data that

is resident on the device and in transit to and from the MC75A and your network. And AppCenter allows enterprises to easily define which features and software applications users can access, preventing unauthorized device usage that could reduce productivity.

# THE MOTOROLA ADVANTAGE: WORLD CLASS PARTNERS AND WORLD CLASS SUPPORT

Motorola's award-winning partner ecosystem offers a best-in-class, broad set of ready-to-go and custom applications for a wide variety of industries, minimizing deployment time and cost. And since even rugged devices require a support plan, Motorola offers Service from the Start with Comprehensive Coverage to help keep your MC75A up and running at peak performance. This unique all-inclusive service significantly reduces your unforeseen repair expenses by covering normal wear and tear as well as internal and external components damaged through accidental breakage — all at no additional charge. And options such as Commissioning Service and Express Shipping help to further minimize downtime in the unlikely event your device requires repair.

FOR MORE INFORMATION ON HOW YOU CAN LEVERAGE THE BENEFITS OF THE MC75A IN YOUR ENTERPRISE, PLEASE VISIT US ON THE WEB AT WWW.MOTOROLA.COM/MC75A, WWW.MOTOROLA.COM/MC75A0HC (HEALTHCARE MODEL) OR ACCESS OUR GLOBAL CONTACT DIRECTORY AT WWW.MOTOROLA.COM/ENTERPRISE/CONTACTUS

# **MOTOROLA'S MC75A SERIES:**

# MAXIMUM FEATURES...MAXIMUM FUNCTIONALITY...MAXIMUM VALUE.

### Powerful microprocessor designed for mobility: PXA320 @ 806 MHz

Desktop-like multimedia performance optimized for longer shift life

### Microsoft's latest operating system: Windows® Mobile® 6.5

Increased interoperability with existing enterprise infrastructure; enhanced security features; more flexible development platform; improved mobile messaging collaboration

### 256MB RAM/1GB Flash

Provides memory space required to enable robust performance for database applications

### User accessible microSD card slot

Provides additional memory and expandable functionality up to 32GB

# Maximum rugged design

**Maximum** 

power

### Motorola MAX Rugged: Industry-leading drop, tumble and sealing specifications with a disinfectant-ready housing

Lightweight yet rugged; built for year-round use in nearly any environment; can be sanitized with many common cleansers to prevent the spread of germs as well as enable cleaning if the device is exposed to dust, dirt, grease, spills and more

### 3.5G WWAN: GSM HSDPA or CDMA-EVDO Rev A broadband connectivity over the cellular network

High performance wireless broadband voice and data anywhere in the world: connection to most carriers in the world with one platform; best in class cellular broadband throughput; integrated voice and data services: allows workers to conduct a phone call while maintaining a data connection (where supported by carrier); internal WWAN diversity antenna provides better signal reception and a more dependable connection

# Maximum connectivity options — and wireless performance

### WLAN: 802.11a/b/g tri-mode radio; comprehensive VoIP support

Cost-effective voice and data connectivity in the office and hot spots; 802.11a enables segmentation of voice traffic to protect voice quality

### WPAN: Bluetooth® v2.1 with EDR2

Wireless connectivity to modems, printers, headsets and more; additional profiles for expanded connectivity to more device types with either Microsoft or Stonestreet stacks; v2.1 simplifies pairing, improves security and reduces power consumption

### IrDA

Wireless connectivity to legacy printers and other business equipment

### Motorola MAX MPA: Mobility Platform Architecture 2.0

Provides the latest best-in-class technology architecture; preserves existing application investments by enabling easy and cost-effective porting of applications from other Motorola mobile computers

# Maximum manageability

### Comprehensive centralized device management

Compatibility with Motorola Mobility Services Platform (MSP) and Motorola Mobility Suite provides superior centralized and remote management of all devices anywhere in the world — from a single console

### Motorola MAX Secure

# Maximum security

FIPS 140-2 certification and support for the most advanced encryption and authentication algorithms as well as Virtual Private Networks (VPNs) enables compliance with the most stringent industry security regulations, including sensitive government applications

### Motorola MAX Data Capture: multi-mode data capture via a bar code scanner plus a color camera

Ability to capture high quality pictures, documents and signatures as well as 1D and 2D bar codes in a single device improves workforce automation, increases productivity and reduces data errors

### Motorola MAX Sensor

Enterprise-class Interactive Sensor Technology (IST) enables leading edge motion-based applications, including dynamic screen orientation, power management and free-fall event logging

### Motorola MAX Locate: SiRFstarIII GSC3ef/LP GPS chipset

Integrated, autonomous and assisted GPS support for robust location-based applications; high performance, power-efficient processor capable of acquiring and maintaining a signal lock in areas where signals are typically weak, expanding the coverage area for GPS applications; faster time to first fix (TTFF); operates in either standalone or assisted GPS (aGPS) mode (carrier dependent) for faster and more accurate positioning

# Maximum flexibility

### Multiple keyboard options: Numeric, QWERTY, DSD, QWERTZ and AZERTY

Flexibility to meet diverse user and application needs

### Multiple voice modes: handset, headset and speakerphone

Flexibility to use the right mode at the right time; high quality speaker, microphone and receiver provide superior voice quality and performance

### 3.5 inch color high definition VGA display (640 x 480) with the latest in LCD technology

Easy to view in any lighting; supports display of high resolution images including video and maps

### Backwards compatible with MC70 and MC75 accessories

Provides investment protection for existing investments

### Comprehensive accessory suite

Add-on functionality expands solution reach, protects investment and maximizes TCO — rich accessory ecosystem offers the ability to read debit and credit cards around the world, hands-free scanning, RFID and more

# **MC75A SERIES SPECIFICATIONS CHART**

PHYSICAL CHARACTERISTICS		Note: Performance metrics above were measured with Battery reserve option set the highest (72 hours)		
Dimensions:	6 in. L* x 3.3 in. W x 1.7 in D 15.24 cm L* x 8.4 cm W x 4.4 cm D	WIRELESS WAN DATA AND VOICE COMMUNICATIONS		
Weight (including	WWAN standard 1.5X battery: 14.9 oz./423 g	WWAN Radio:	GSM: HSDPA; CDMA: EVDO Rev A	
standard battery):  Display:	WLAN standard 1.5X battery: 14 oz./398 g  Transflective color 3.5" full VGA with backlight,	GPS:	Integrated, Autonomous and Assisted-GPS (A-GPS) through SUPL; SiRFstarIII GSC3f/LP chipset	
Diopidy.	640 x 480	WIRELESS LAN DATA	A AND VOICE COMMUNICATIONS	
Touch Panel:	Glass analog resistive touch	WLAN Radio:	Tri-mode IEEE® 802.11a/b/g	
Backlight:	LED backlight	Data Rates Supported:	1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps	
Main Battery:	Rechargeable Lithium Ion 3.7V, 3600 mAh Smart Battery	Operating Channels:	Chan 8-165 (5040 – 5825 MHz)	
Ext. Cap. Battery:	Optional 3.7V, 4800 mAh Smart Battery		Chan 1-13 (2412-2472 MHz)	
Backup Battery:	Ni-MH battery (rechargeable) 15mAh 2.4V (not user-accessible)		Chan 14 (2484 MHz) Japan only Actual operating channels/frequencies depend on regulatory rules and certification agency	
Expansion Slot:	microSD slot with SDHC Support (up to 32GB)	Security:	WPA2, WEP (40 or 128 bit), TKIP, TLS, TTLS (MS-CHAP)	
Network Connections:	Ethernet (via cradle); full-speed USB, host or client	occurry.	TTLS (MS-CHAP v2), TTLS (CHAP), TTLS-MD5, TTLS-PAF	
Notification:	Vibrator and LED		PEAP-TLS, PEAP (MS-CHAP v2), AES, LEAP, CCXv4 certified; FIPS 140-2 certified	
Keypad Options:	Numeric; QWERTY; DSD; AZERTY; QWERTZ	Spreading Technique:	Direct Sequence Spread Spectrum (DSSS) and	
Audio:	VoWWAN; VoWLAN; TEAM Express compliant; support for wired and wireless (Bluetooth) headsets;		Orthogonal Frequency Division Multiplexing (OFDM)	
	headset, handset and speaker phone modes	Antenna:	Internal for LAN, External for WAN	
PERFORMANCE CHA	ARACTERISTICS PXA320 @ 806 MHz processor	Voice Communication:	Integrated Voice-over-IP ready (P2P, PBX, PTT), Wi-Fi™-certified, IEEE 802.11a/b/g direct sequence wireless LAN	
Operating System:	Microsoft® Windows Mobile® 6.5 Classic	WIDELESS DAN DAT		
operating dystem.	and Professional		A AND VOICE COMMUNICATIONS	
Memory:	256MB RAM; 1GB Flash	Bluetooth:	Class II, v2.1 with Enhanced Data Rate (EDR) integrated antenna	
Interface:	RS-232, USB 1.1	DATA CAPTURE OPT	IONS	
User Environment		Five Configuration	Standard model available in four configurations:	
Operating Temperature:	14° F to 122° F/-10° C to 50° C	Options:	1D laser scanner; 2D imager; 1D laser scanner and camera; 2D imager and camera Healthcare model (MC75A0-HC) configured with 2D imager, 3.2 MP camera, QWERTY keypad and WLAN/WPAN (no WWAN)	
Storage Temperature:	-40° F to 158° F/-40° C to 70° C (w/o battery)			
Humidity:	95% non-condensing			
Drop Specification:	Multiple 5 ft. drops to concrete at room temperature; Multiple 4 ft. drops to concrete across the	COLOR CAMERA		
	operating temperature range; meets and	Resolution:	3.2 megapixel	
T 11 0 'S S	exceeds applicable MIL-STD 810G specifications	Illumination:	User controllable flash	
Tumble Specification:	1,000 1.6 ft./.5 m tumbles (2,000 drops); per applicable IEC tumble specifications	Lens:	Auto focus	
Sealing:	IP54 per applicable IEC sealing specifications	1D LASER SCANNER	: SE950	
IrDA:	Infra-red port for connection to printers and	Range on 100% UPCA:	24 in./60 cm	
	other devices	Resolution:	4 Mil minimum element width	
Clock:	Integrated real time clock	Roll:	±35° from vertical	
Light Immunity:	Readability: Incandescent — 450 ft. candles; Sunlight — 8000 ft. candles; Fluorescent: 450 ft. candles	Pitch Angle:	± 65° from normal	
Electrostatic	±15kV air discharge, ±8kV direct discharge	Skew Tolerance:	± 50° from normal	
Discharge (ESD):	Troky all districted, Toky alloct districted	Ambient Light Immunity:	10,000 ft. candles/107,640 lux	
BATTERY PERFORMANCE		Scan Rate:	104 (+/- 12) scans/sec (bi-directional)	
Standby time:	150 hours	Scan Angle:	47° ± 3° default; 35° ± 3° reduced	
Talk time:	5 hours	2D IMAGER ENGINE:	SE4500-SR	
User profiles:	Outdoor WAN+GPS, 15min/hour voice communication,	Focal Distance:	From center of exit window: SR – 7.5 in./19 cm	
•	10kB transmission every 10 min, and GPS on all	Sensor Resolution:	752 x 480 pixels	
	time, 8 hours of operation. Outdoor Voice,15 min/hour voice communication,	Field of View:	Horizontal: 40°; Vertical: 25°	

 $<sup>\</sup>ensuremath{^*}$  For WAN configurations, add 1 in./2.54 cm to the length (L) for the antenna

Skew Tolerance:	±60°
Pitch Tolerance:	±60°
Roll Tolerance:	360°
Ambient Light Immunity:	9,000 ft. candles/96,900 lux
Aiming LED (VLD):	655 ± 10 nm Laser
Illumination Element (LED):	625 ± 5 nm LEDs (2x)
2D IMAGER ENGINE:	SE4500-DL
Focal Distance:	From center of exit window: SR - 5 in./13 cm
Sensor Resolution:	752 x 480 pixels
Field of View:	Horizontal: 33°; Vertical: 25°
Skew Tolerance:	±60°
Pitch Tolerance:	±60°
Roll Tolerance:	360°
Ambient Light Immunity:	9,000 ft. candles/96,900 lux
Aiming LED (VLD):	655 ± 10 nm Laser
Illumination Element (LED):	625 ± 5 nm LEDs (2x)

### MOTOROLA INTERACTIVE SENSOR TECHNOLOGY

Motion-sensor: 3-axis accelerometer that enables motion-sensing applications for dynamic screen orientation, power management and free-fall detect

### **PERIPHERALS AND ACCESSORIES**

Communication and Charging Cables:	Serial and USB v1.1 charging cables, printer cables, vehicle charging cable, power/charging cable
Battery Chargers:	4-slot battery charger (1X, 1.5X and 2.5X), universal battery charger (requires adapters for 1X, 1.5X and 2.5X capacity batteries)
Vertical-specific attachments:	Snap-on Magnetic Stripe Reader (MSR); Payment Snap-on (Debit and Credit); Mobile Payment Module; Mobile Payment Module with Chip and PIN
Electrical Safety:	Certified to UL / cUL 60950-1, IEC / EN60950-1
EMI/RFI:	USA: FCC Part 15; Canada: ICES 003 Class B; Europe: EN55022 Class B, EN 55024, EN60601-1-2; Australia: AS/NZS CISPRA 22

For countries outside USA, Canada, European Economic Area, Japan or Australia consult your local Motorola representative; for a complete list of MC75A Peripherals and Accessories, please visit www.motorola.com/mc75a or www.motorola.com/mc75a0hc

### REGULATORY

Electrical Safety:	Certified to UL / cUL 60950-1, IEC / EN60950-1	
Environmental:	RoHS-compliant	
WLAN and Bluetooth:	USA: FCC Part 15.247, 15.407 Canada: RSS-210 EU: EN 300 328, EN 301 893 Japan: ARIB STD-T33, ARIB STD-T66, ARIB STD-T71 Australia: AS/NZS 4268	
Quad Band GSM/ EDGE, plus Tri-band HSDPA:	Global: 3GPP TS 51.010, 3GPP TS 34.121, 3GPP TS 34.123 GCF approved module USA: FCC Part 22, Part 24 Canada: RSS-132, RSS-133 EU: EN301 511, EN301 908 Australia: AS/ACIF S042.183	

CDMA-EVDO Rev. A:	Verizon and Sprint
	(For the latest information, contact your local
	Motorola representative)
	'
RF Exposure:	USA: FCC Part 2, FCC OET Bulletin 65 Supplement C
	Canada: RSS-102
	EU: EN 50360
	Australia: Radiocommunications Standard 2003
EMI/RFI:	North America: FCC Part 15, Class B
	Canada: ICES 003 Class B
	EU: EN55022 Class B, EN 301 489-1, EN 301 489-3
	EN 301 489-7, EN 301 489-17, EN 301 489-24,
	FN 60601-1-2
	Australia: AS/NZS CISPRA-22
Laser Safety:	IEC Class2/FDA Class II in accordance with
	IEC60825-1/EN60825-1
	SA, Canada, European Economic Area, Japan or ocal Motorola representative
HAZARDOUS LOCATI	ON CERTIFICATIONS

### **HAZARDOUS LOCATION CERTIFICATIONS**

UL Class I, II, III Division 2, Groups A, B, C, D, F, G (Select Configurations Only)

### WARRANTY

The MC75A Series is warranted against defects in workmanship and materials for a period of 12 months from date of shipment, provided that the product remains unmodified and is operated under normal and

The MC75A Series is a true global product that is supported in all industrial countries. Please visit www.motorola.com for a complete list of supported

countries.	
Cleaning Instructions	3
Approved Cleanser Active Ingredients:	100% of the active ingredients in any cleaner must consist of one or some combination of the following: isopropyl alcohol; bleach/sodium hypochlorite; hydrogen peroxide; mild dish soap
Harmful Ingredients:	The following chemicals are known to damage the plastics on the MC75A Series and should not come in contact with the device: ammonia solutions, compounds of amines or ammonia; acetone; ketones; ethers; aromatic and chlorinated hydrocarbons; acqueous or alcoholic alkaline solutions; ethanolamine; toluene; trichloroethylene; benzene; carbolic acid; TB-lysoform
Cleaning Instructions:	Do not apply liquid directly to the MC75A Series. Dampen a soft cloth or use pre-moistened wipes. Do not wrap the device in the cloth or wipe, but gently wipe the unit. Be careful not to let liquid pool around the display window or other places. Allow the unit to air dry before use.
Special Cleaning Notes:	Many vinyl gloves contain phthalate additives which are often not recommended for medical use and are known to be harmful to the housing of the MC75A Series. The MC75A Series should not be handled while wearing vinyl gloves containing phthalates, or before hands are washed to remove contaminant residue after gloves are removed.
	If products containing any of the harmful ingredients listed above are used prior to handling the MC75A Series, such as hand sanitizers that contain ethanolamine, hands must be completely dry before handling the MC75A Series to prevent damage to the plastics.











 ${\sf MAX}$ Sensor



 $\mathsf{MAX}$ Data Capture















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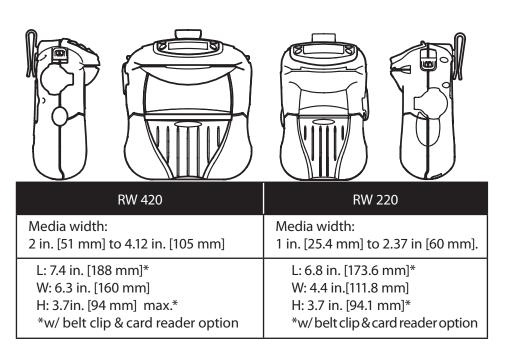


# Getting Started

### Introduction

Thank you for choosing one of our Zebra **Zebra** RW Series™ Mobile Printers. These rugged printers will become productive and efficient

additions to your workplace thanks to their innovative design. Because they 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 the RW Series of Mobile Printers.

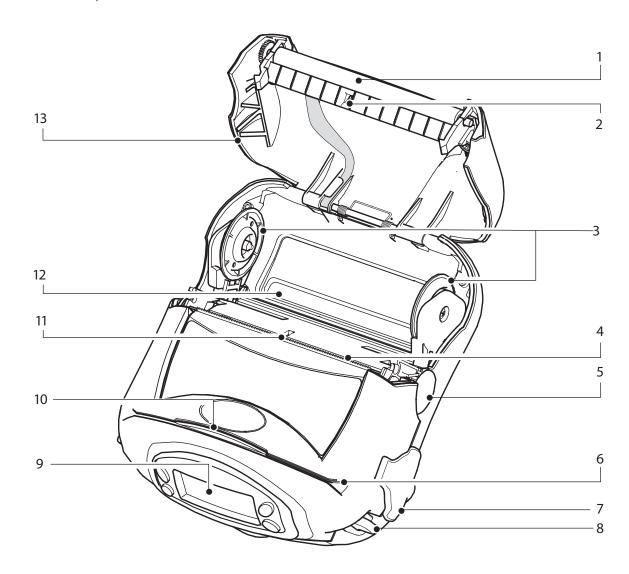
Complete and current documentation for each model printer is provided by the RW Series User Guide available on the Internet at: www.zebra.com/manuals.



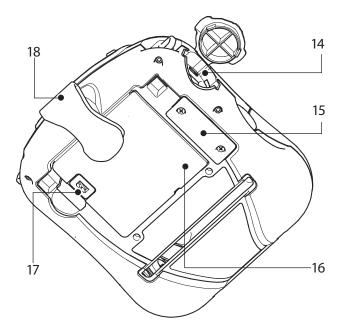
Always refer to the Important Safety Information data sheet shipped with each printer and the Technical Bulletin shipped with each battery pack. These documents detail procedures to ensure maximum reliability and safety while using this printer.

### **RW Series Overview**

(RW 420 Illustrated)



- 1. Platen Roller
- **Bar Sensor**
- **Media Support Disks**
- Printhead
- Latch Release Button
- Magnetic Stripe Reader (MSR) Slot
- **Communications Port Door**
- 8. "D" Rings
- **Control Panel** 9.
- **Smart Card Slot**
- Gap Sensor 11.
- 12. **Bottom Media Feed Slot**
- 13. Media Cover
- **Communications Port**
- **Docking Connector Cover**
- Battery
- **Battery Charging Receptacle** 17.
- 18. Belt Clip



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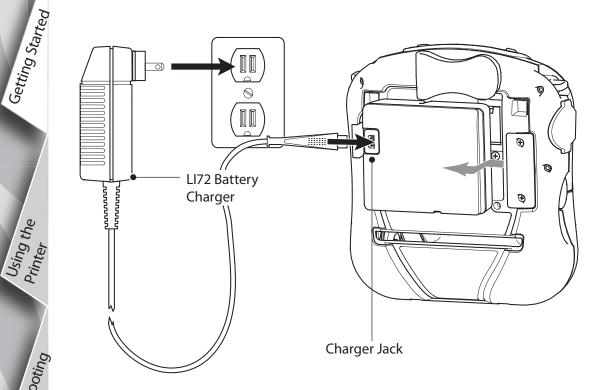
# **Charge the Battery**



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



Do not charge the battery while using the printer! Charge the battery pack when removed from the Printer for best results.

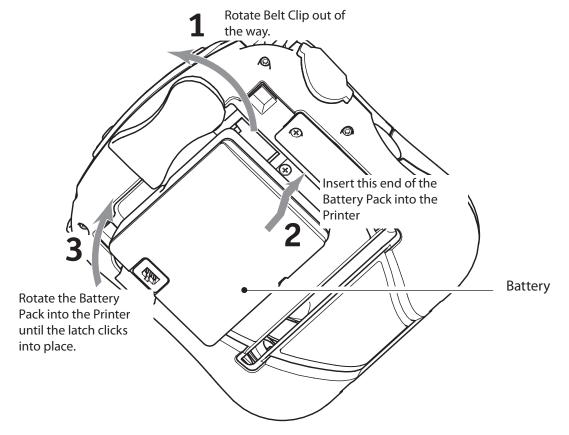


### **Using the LI72 Single Charger**

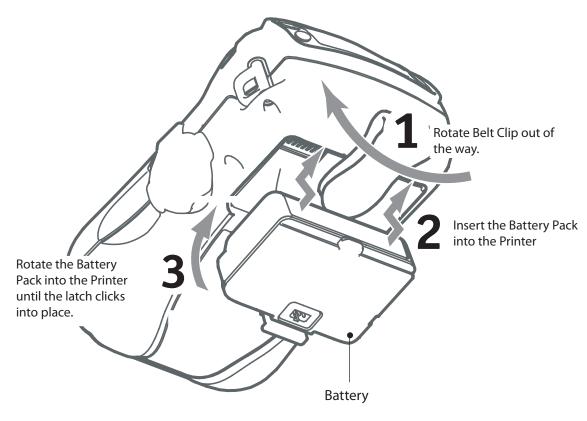
Insert the plug from the charger cable into the battery pack's charger jack. Plug the charger into the A.C. outlet. The light on the front of the charger will indicate the battery pack's charge status.

Consult the RW series User's Guide available at <a href="https://www.zebra.com/manuals">www.zebra.com/manuals</a> for complete information on using the various versions of the Model LI72 Single Charger.

# **Installing the Battery**



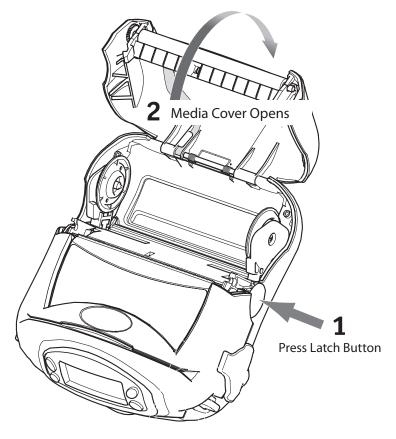
**RW 420 Battery Installation** 



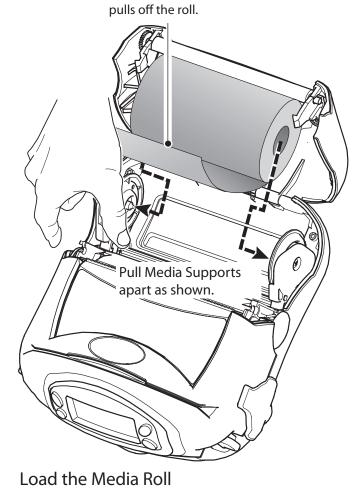
RW 220 Battery Installation



# **Loading Media**



Open the Media Cover



Media Roll

Note direction media

Close Media Cover

Pull Media out of Printer

Close the Media Cover

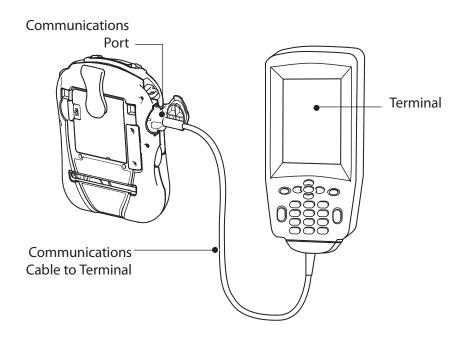
Section Continues

Troubleshooting

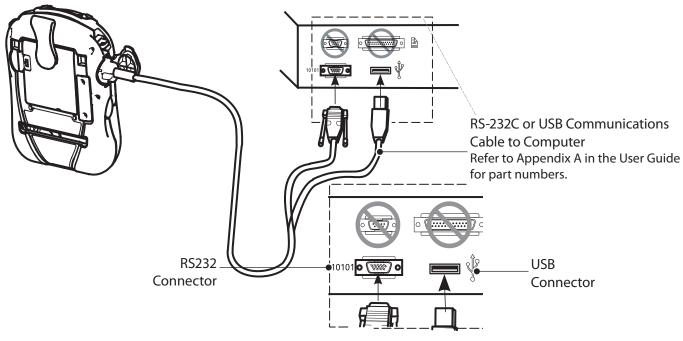
### **Connect the Printer**

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 on the RW product CD or at <a href="https://www.zebra.com/software">www.zebra.com/software</a> for help on setting up communications with your printer.

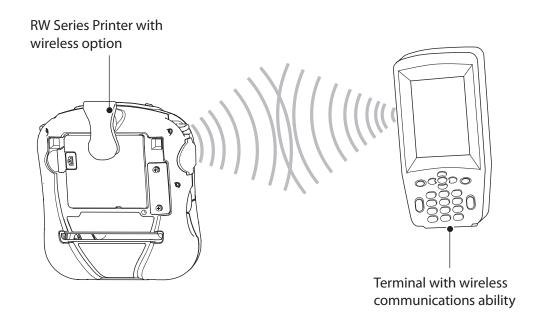


Cable Communications with a Terminal.



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: <a href="https://www.zebra.com/drivers">www.zebra.com/drivers</a>.



Connect the Printer by Infrared (IR) or Radio

If your RW series printer has the optional IR module, you can make wireless line-of-sight connections to other IR equipped devices using the standard IrDA protocol.

If your RW series printer has a radio option, you can connect wire-lessly to either a terminal or a wireless network (WLAN.) Refer to the Mobile Printer Wireless Configuration Guide available on the product CD or at <a href="https://www.zebra.com/utilities">www.zebra.com/utilities</a> for help on setting up wireless communications with your printer.

# **RW Series Quick Start Guide**

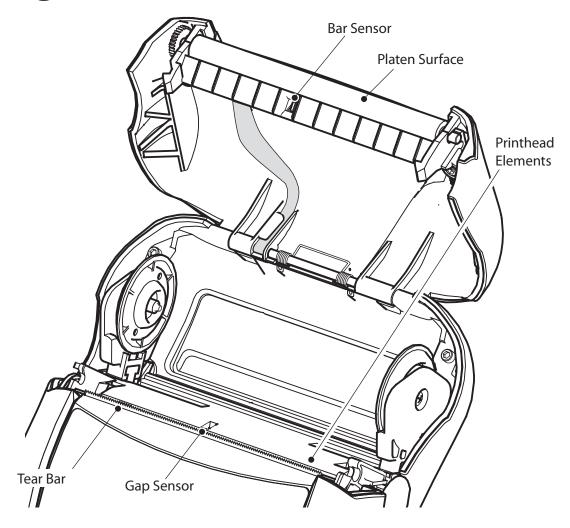
Troubleshooting

# **Printer Controls LCD Keypad**

FEED BUTTON SCROLL BUTTON Press to advance the media one Press to scroll through the menu choices on blank label or a software determined length of journal media. the LCD. PRINTER STATUS ICONS Indicates the status of several Printer functions. Zebra RW 420 Signal:0% Battery ---(ok) MENU Latch: ok (Rdr) Power Button SELECT BUTTON Press to turn unit Press to select a on. Press again to menu choice on the turn unit off. LCD. Mag/Smart Card Reader Indicator When "RDR" is displayed the Mag

Stripe/ Smart Card reader is enabled.

# **Cleaning the Printer**





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

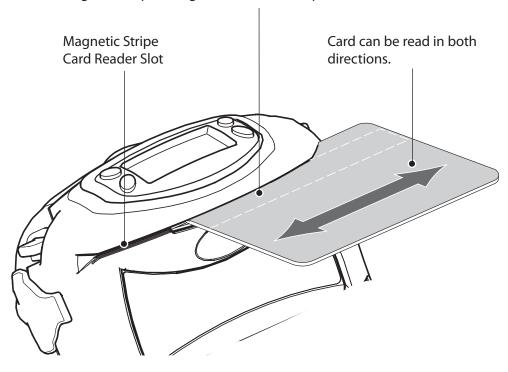
Area	Method	Interval
Printhead	Use a Zebra cleaning pen or 70% isopropyl alcohol on a cotton swab to clean the print elements from end to end (the print elements are located in the thin gray line on the printhead).	Afterna and Francis land a dia (anno and
Platen	Rotate the platen roller and clean it thoroughly with the cleaning pen or 70% isopropyl alcohol and a cotton swab.	Aftereveryfiverolls of media (or more often, if needed)
Tear bar	Clean thoroughly with the cleaning pen or 70% isopropyl alcohol and a cotton swab.	
Exterior	Water dampened cloth	As needed
Interior	Brush/air blow. Ensure the Bar Sensor and Gap Sensor windows are free of dust.	Aftereveryfiverollsofmedia(ormore often, if needed)

# **Using the Magnetic Stripe Reader**



The Magnetic Stripe and Smart Card Readers are an optional feature of the RW series. Your printer may be configured without them.

Place the Magnetic Stripe Card in the reader slot with the magnetic stripe facing the bottom of the printer as shown.



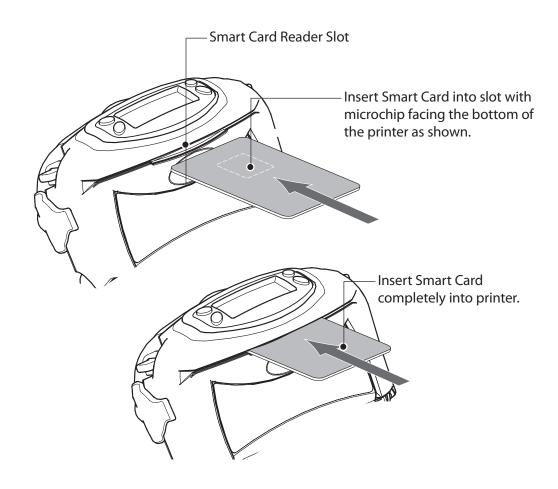
The status of the Magnetic Stripe Reader (MSR) is indicated in three possible ways:

- Reader status is displayed on the Main Menu LCD
- The LCD backlight flashes to indicate status (3 flashes = enabled, 2 flashes = disabled).
- Chimes indicates the reader status (3 chimes = enabled, 2 chimes = disabled).

The MSR is used as follows:

- 1. When the reader is enabled, place the card into the reader slot as shown above. The magnetic stripe must face the bottom of the printer, and be inserted into the card reader slot as shown above.
- 2. Slide the card through the slot in either direction. Depending on the application software, the printer will sound one chime when a scan is successful.
- 3. If the card did not read, slide it back through the slot in the opposite direction.

# **Using the Smart Card Reader**



The optional Smart Card reader is used as follows:

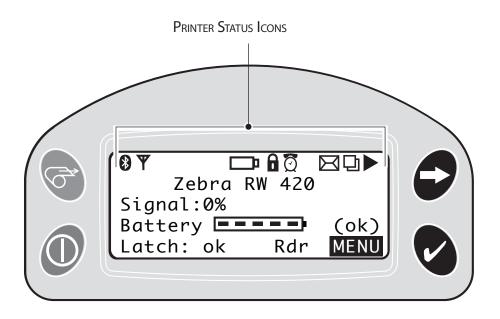
- 1.The LCD will display "RDR" to indicate the Smart Card Reader is active. (Some reader applications may flash the display backlight and/or chime three times to indicate the reader status is "ready.") The printer is now acting only as a Smart Card reader connected to the host terminal; all other printer functions are suspended.
- 2. Insert the card into the reader slot as shown above. The microchip imbedded in the card must be oriented facing the bottom of the printer and must be completely inserted into the reader slot to scan successfully.
- 3. Depending on the application software, the printer will sound a chime after a successful transaction.
- 4. After the card has been successfully read the printer can resume normal printing operations and the Smart Card can be removed

Troubleshooting

# **Troubleshooting**

### **LCD Control Panel**

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



lcon	Status	Indication	Ref. to Topic # on next page
<b>\$</b>	On	Bluetooth Link established	n/a
	Off	No Bluetooth Link	5
*	On	Bluetooth link established	n/a
	Off	No Bluetooth link	5
	Flashing	Transmitting/Receiving data	n/a
Ψ	On	802.11x RF Link established	n/a
	Off	No 802.11x RF Link	5
	Flashing	Low Battery	3, 5, 6,
a	Flashing	Head latch not closed	8, 10, 11
Q	Flashing	Indicates Printing activity	n/a
$\square$	Steady	Data processing in process	7
D	Flashing	Out of Media	9,11
	Blank Screen	n/a	No application



RW series printers may be built with one of two LCD types. LCDs using the Bluetooth icon (highlighted by a gray background in the table above) will gradually replace LCDs with the "light bulb" icon indicating Bluetooth activity. Printers with either type of display will function identically.

Section Continues

# RW Series Quick Start Guide

# **Troubleshooting Topics**

- 1. No power:
  - Check that battery is installed properly.
  - Recharge or replace battery as necessary.
- 2. Media does not feed:
  - Be sure printhead is closed and latched.
  - Check spindle holding media for any binding.
  - Ensure label sensor is not blocked.
- 3. Poor or faded print or □ icon flashing:
  - Clean printhead.
  - Check battery for possible damage. Recharge or replace as necessary.



Always dispose of batteries properly. Refer to Appendix E of the RW series User Guide for more information.

- Check quality of media.
- 4. Partial or missing print:
  - Check media alignment.
  - Clean printhead.
  - Ensure printhead is properly closed and latched.
- 5. No print:
  - Replace battery.
  - Check cable to terminal.
  - (Wireless units only) Restore wireless connection.
- 6. Reduced battery life:
  - Check battery date code if battery is one to two years old, short life may be due to normal aging.
  - Replace battery.
- 7. Flashing ⊠ icon:
  - No application or application corrupted; program must be re-loaded.
  - (Wireless units only): flashing error light indicates data transmission.
- 8. Flashing □ or **a** icons:
  - Check that media is loaded and that printhead is closed and securely latched.
- 9. Skips labels:

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- Ensure correct media is being used.
- Ensure bar/ or gap sensor is not blocked.
- 10. Communication Error:
- Check media is loaded, head is closed and error light is off.
- Replace cable to terminal.

Section Continues

### 11. Label Jam:

- Open media cover.
- Generously apply alcohol to Printer in area of jammed label.

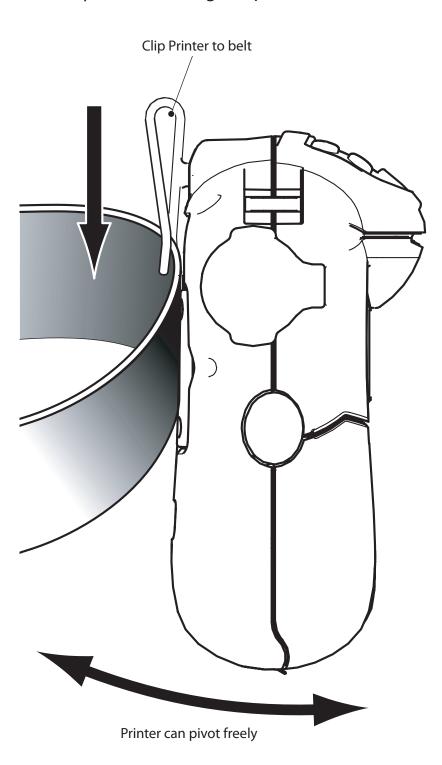
### 12. Blank LCD Screen:

- No application loaded or application corrupted: program must be re-loaded.
- 13. Magnetic Strip Card or Smart Card Won't Read
  - Ensure the "RDR" text is displayed, indicating card reader is enabled.
  - Ensure card is inserted with the magnetic stripe or microchip facing in the correct direction.
  - Check card for excessive wear or damage to either the magnetic strip or the microchip.
- 14. Battery Pack Is Hard to Insert
  - Do not force the battery. Verify you have removed the protective shrink-wrap which protects the battery during shipping.
  - The battery packs for the RW and QL series model printers are similar in size and shape, but not identical. Verify you are using the correct battery pack:
  - The RW 420 battery pack replacement part number is AK17463-005. The RW 220 battery pack replacement part number is AK18026-002.

# **Using the Accessories**

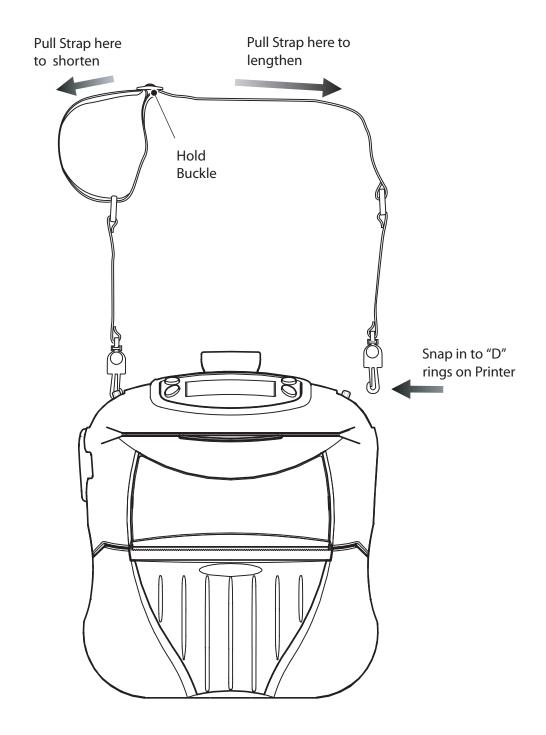
### **Belt Clip (standard on all printers)**

To use: hook the clip over your belt and ensure that the clip is securely attached to the belt. The belt clip will pivot to allow you to move freely while wearing the printer.



### **Adjustable Shoulder Strap (optional)**

Refer to figure below. Snap each end of the shoulder strap into the "D" rings in the top of the printer. Hold the buckle and slide the strap as shown below until you achieve the desired length.



Getting Started

Troubleshooting

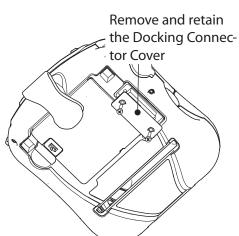
Accessories

Contact Us

# **Using the Accessories**

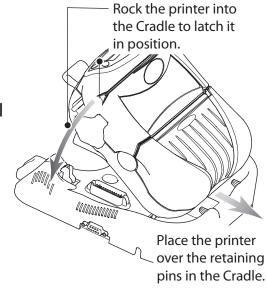
### **RW 420 Vehicle Cradle**

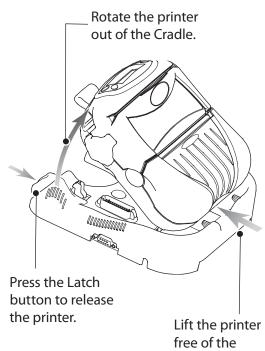
When the RW 420 Printer is "docked" in the Vehicle Cradle it can print, receive and transmit data and the cradle can charge the printer's batteries. Refer to the documentation either in the Users Guide or supplied with the Cradle for more information.



Installing the Printer

- As a safety precaution, remove the shoulder strap prior to docking the printer.
- Remove the Docking Connector Cover from the bottom of the printer, and retain it for future use.
- Place the bottom of the printer over the two pins in the Cradle.
- Rock the top of the printer into the Cradle and press firmly until it latches in place.
- When the power indicator on the Cradle is lit turn the printer on.





locating pins.

Removing the Printer

- Turn the printer off.
- Push on the latch on the Cradle and rock the top of the printer away from the Cradle.
- Lift the printer out from the Cradle.

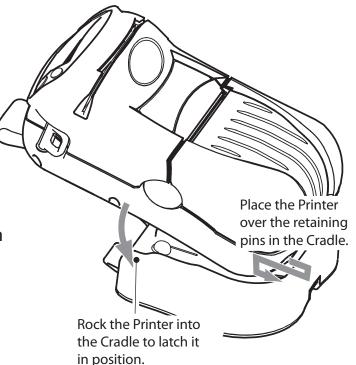
Replace the Docking Connector Cover if you will be using the printer for an extended period of time away from the Cradle.

### **RW 220 Vehicle Cradle**

The RW 220 can be used in conjunction with a docking Cradle. When the Printer is "docked" it can be powered by either its own battery or one of the RCLI series of external chargers. Refer to the documentation supplied with the Cradle for more information.

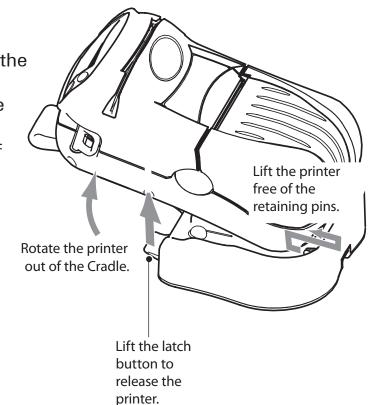
Installing the Printer

- Place the bottom of the printer over the two pins in the Cradle.
- Rock the top of the printer into the Cradle and press firmly until it latches in place.



Removing the Printer

- Turn the Printer off.
- Push on the latch on the Cradle and rotate the Printer away from the Cradle.
- Lift the Printer free of the cradle locating pins and out from the Cradle.



# RW Series Ouick Start Guide

# **Product Support**

For product support, and the latest versions of all customer documentation, contact Zebra Technologies at: <a href="https://www.zebra.com">www.zebra.com</a>

Refer to Appendix D in the RW Series User Guide for more detailed contact information

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