



ZEBRA MC9401 Mobile Computer User Guide

[Home](#) » [ZEBRA](#) » ZEBRA MC9401 Mobile Computer User Guide 



MC9400/MC9450
Mobile Computer
Quick Start Guide
MN-004783-01EN Rev A

Contents

- [1 MC9401 Mobile Computer](#)
- [2 Terms of Use](#)
- [3 Unpacking the Device](#)
- [4 Device Features](#)
- [5 Installing a microSD Card](#)
- [6 Installing the Battery](#)
- [7 Replacing the Battery](#)
- [8 Charging the Device](#)
- [9 Charging the Spare Battery](#)
- [10 Charging Indicators](#)
- [11 Accessories for Charging](#)
- [12 4-Slot Charge Only Share Cradle](#)
- [13 USB Charge/Com Snap-on Cup](#)
- [14 Charge Only Adapter](#)
- [15 Installing the Adapter](#)
- [16 Ergonomic Considerations](#)
- [17 Documents / Resources](#)
 - [17.1 References](#)

MC9401 Mobile Computer

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Unpacking the Device

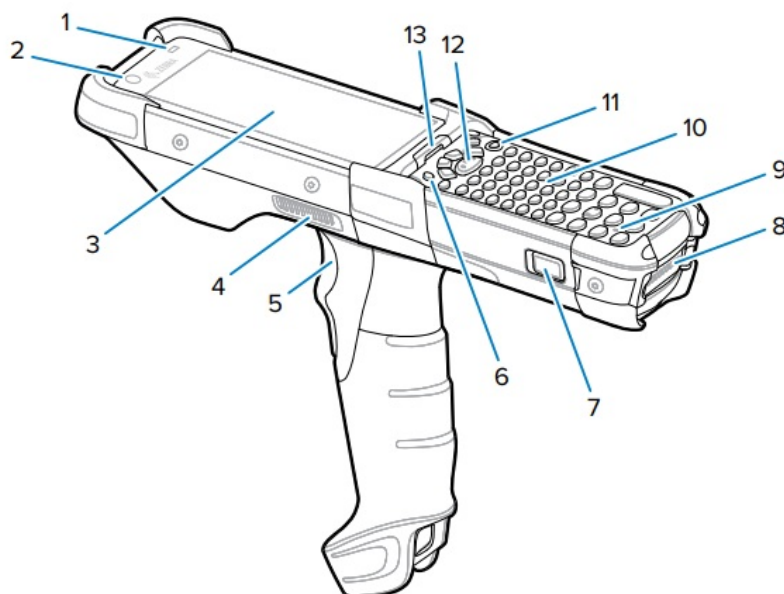
Follow these steps when unpacking the device for the first time.

1. Carefully remove all protective material from the device and save the shipping container for later storage and shipping.
2. Verify that the following items are in the box:
 - Mobile computer
 - Power Precision+ Lithium-ion battery
 - Regulatory Guide
3. Inspect the equipment for damage. If any equipment is missing or damaged, contact the Global Customer Support Center immediately.
4. Before using the device for the first time, remove the protective shipping films that cover the scan window, display, and camera window.

Device Features

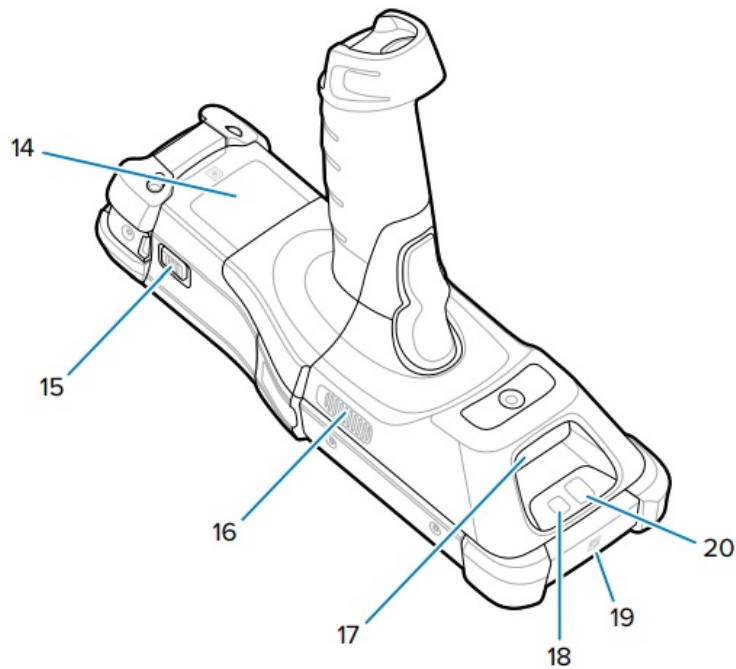
This section lists the features of this mobile computer.

Figure 1 Top View



Number	Item	Description
1	Ambient light sensor	Controls display and keyboard backlight.
2	Front-facing camera	Use to take photos and videos.
3	Display	Displays all information needed to operate the device.
4	Speaker side port	Provides audio output for video and music playback.
5	Trigger	Initiates data capture when a scan application is enabled.
6	P1 – Dedicated PTT key	Initiates push-to-talk communications (programmable).
7	Battery release latch	Releases the battery from the device. To release the battery, simultaneously press the battery release latches on both sides of the device.
8	Battery	Provides power for operating the device.
9	Microphone	Use for communications in Handset mode.
10	Keypad	Use to enter data and navigate on-screen functions.
11	Power button	Press and hold to turn on the device. Press to turn on or off the screen. Press and hold to select one of these options: <ul style="list-style-type: none"> • Power off – Turn off the device. • Restart – Restart the device when the software stops responding.
12	Center scan button	Initiates data capture when a scan application is enabled.
13	Charging/notification LED	Indicates the battery charging status while charging, app-generated notifications, and data capture status.

Figure 2 Bottom View



Number	Item	Description
14	Passive NFC tag (Inside the battery compartment.)	Provides secondary product label information (configuration, serial number, and manufacture data code) in the event that the readable product label is worn or missing.
15	Battery release latch	Releases the battery from the device. To release the battery, simultaneously press the battery release latches on both sides of the device.

16	Side speaker port	Provides audio output for video and music playback.
17	Scanner exit window	Provides data capture using the scanner/imager.
18	Camera flash	Provides illumination for the camera.
19	NFC antenna	Provides communication with other NFC-enabled devices.
20	Rear camera	Takes photos and videos.



NOTE: The front camera, rear camera, camera flash, and NFC antenna are available only on premium configurations.

Installing a microSD Card

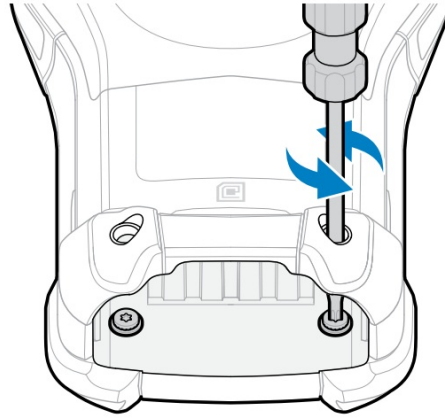
The microSD card slot provides secondary non-volatile storage. The slot is located under the keypad module. For more information, refer to the documentation provided with the card, and follow the manufacturer's recommendations for use. It is strongly recommended that, prior to use, you format the microSD card on the device.



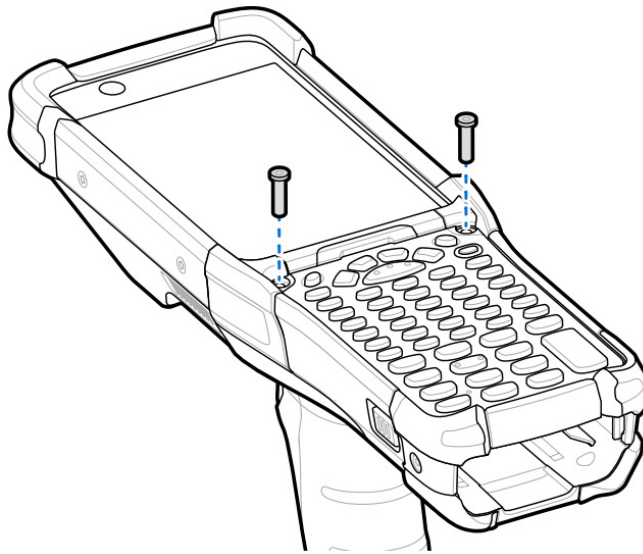
CAUTION: Follow proper electrostatic discharge (ESD) precautions to avoid damaging the microSD card. Proper ESD precautions include, but are not limited to, working on an ESD mat and ensuring that the operator is properly grounded.

1. Power off the device.

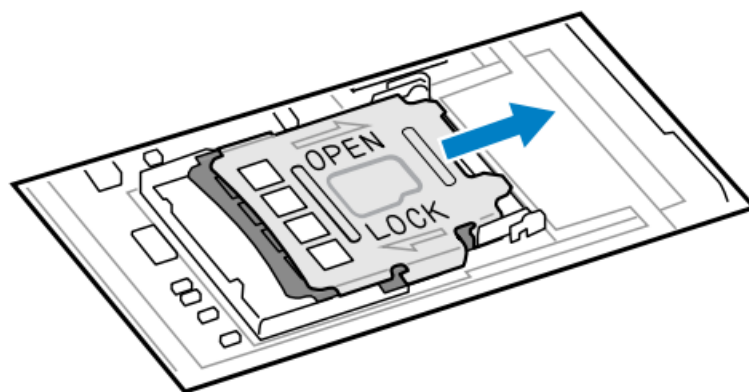
2. Remove the battery
3. Using a long, thin T8 screwdriver, remove the two screws and washers from inside the battery slot.



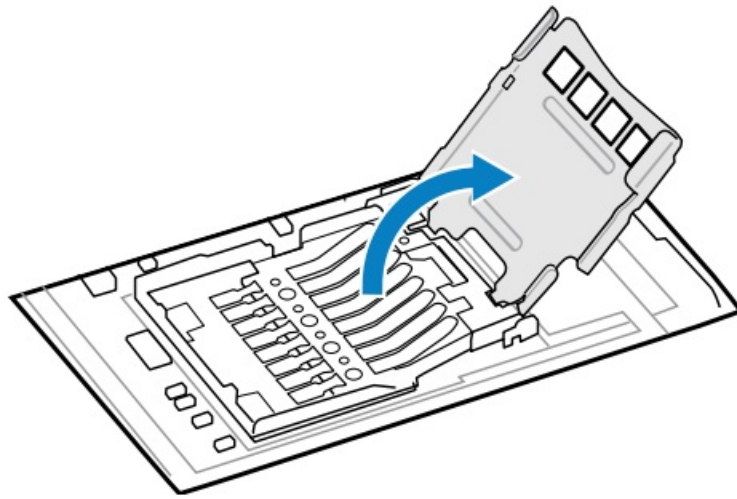
4. Turn the device over so that the keypad is visible.
5. Using a T8 screwdriver, remove the two keypad assembly screws from the top of the keypad.



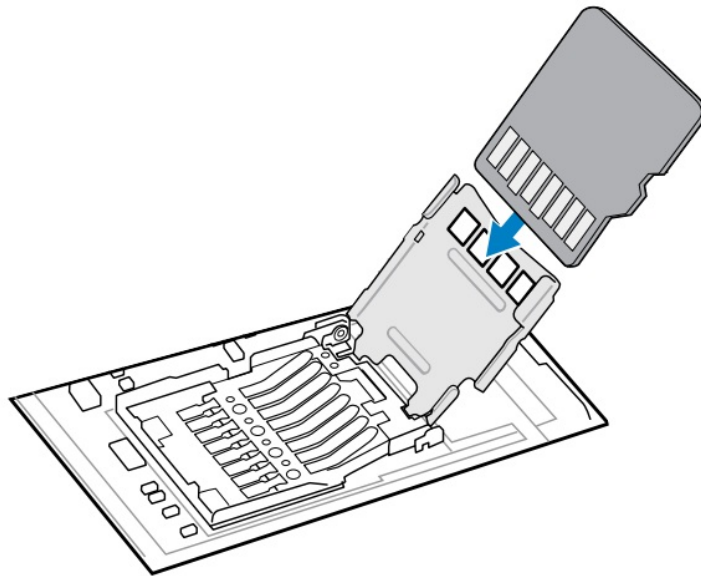
6. Lift the keypad from the device to expose the microSD card holder.
7. Slide the microSD card holder to the Open position.



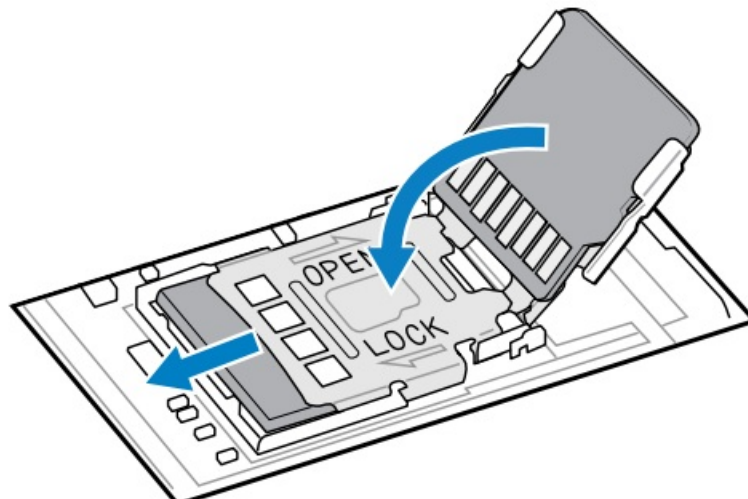
8. Lift the microSD card holder.



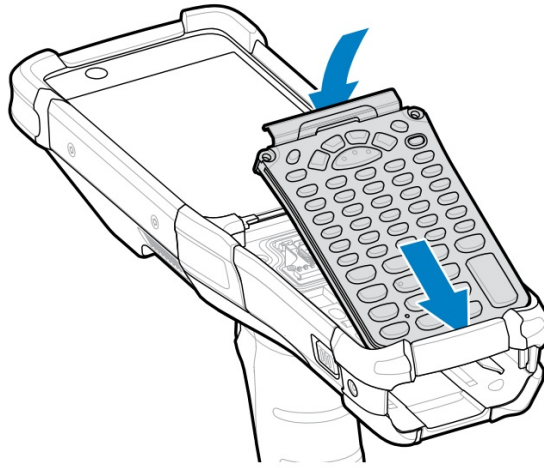
9. Insert the microSD card into the card holder door ensuring that the card slides into the holding tabs on each side of the door.




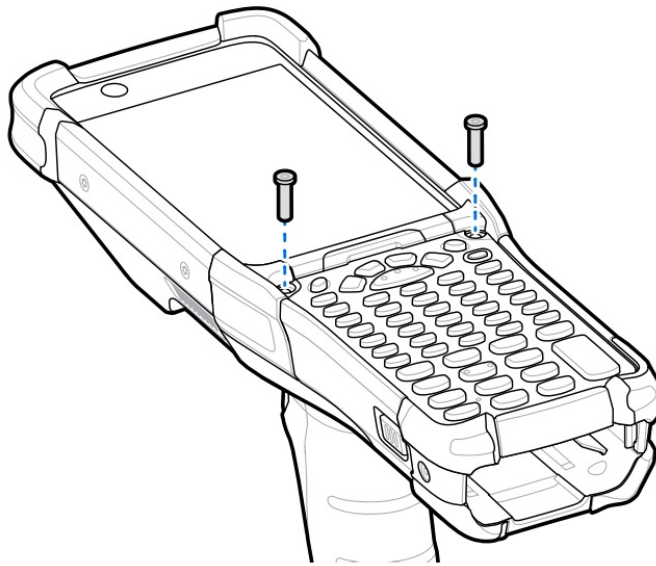
10. Close the microSD card holder door and slide the door to the Lock position.




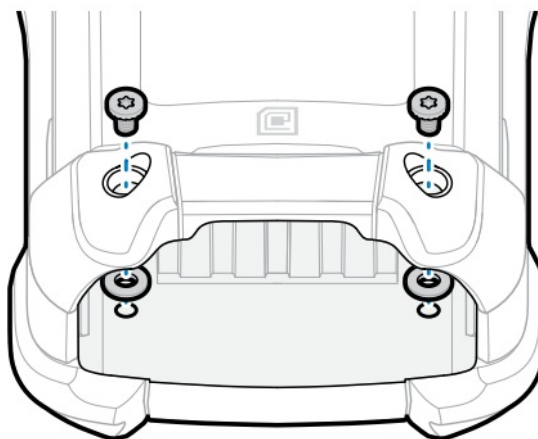
11. Align the keypad along the bottom ridge of the device, and then lay it flat.



12. Using a  T8 screwdriver, secure the keypad to the device using the two screws. Torque screws to 5.8 kgf-cm (5.0 lbf-in).



13. Turn the device over.
14. Using a long, thin  T8 screwdriver, replace the two screws and washers inside the battery slot and torque to 5.8 kgf-cm (5.0 lbf-in).

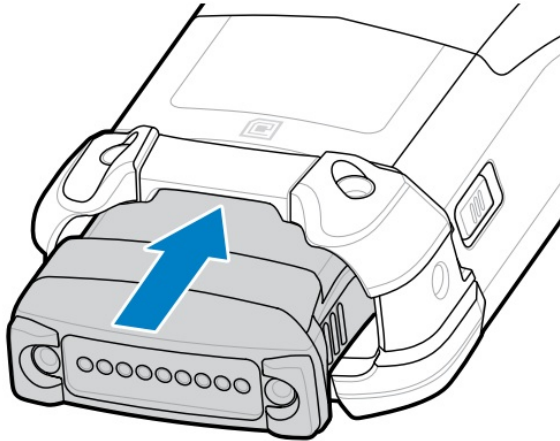


15. Insert the battery.
16. Press and hold Power to power on the device.

Installing the Battery

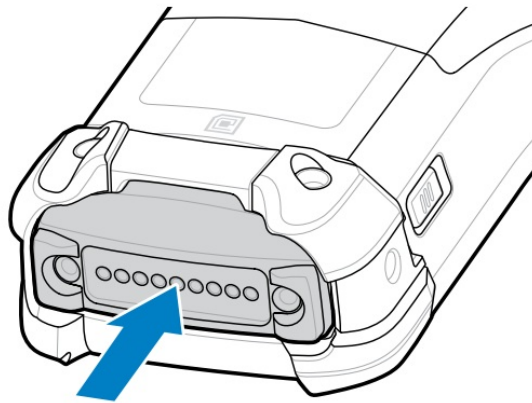
This section describes how to install the battery into the device.

1. Align the battery with the battery slot.
2. Push the battery into the battery slot.



3. Press the battery firmly into the battery well.

Ensure that both the battery release latches on the sides of the device return to the home position. An audible click sound indicates that both the battery release latches have returned to the home position, locking the battery in place.



4. Press Power to turn on the device.

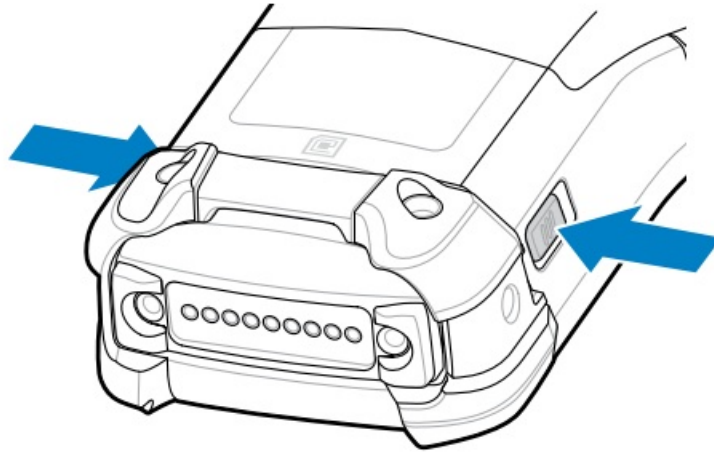
Replacing the Battery

This section describes how to replace the battery in the device.

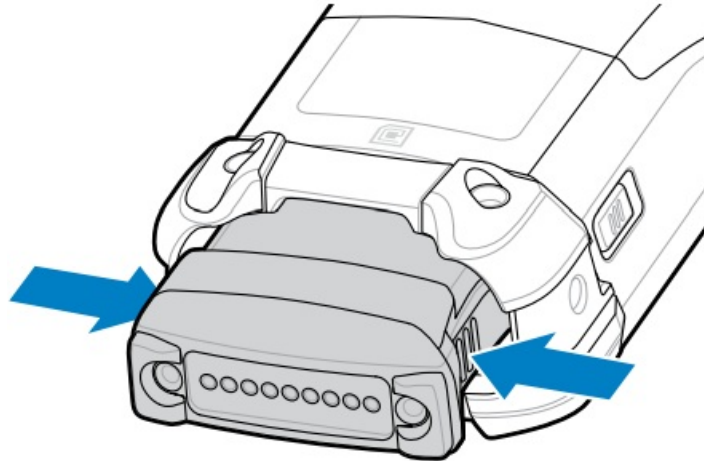
1. Push in the two primary battery release latches.

The battery ejects slightly. With Hot Swap mode, when you remove the battery, the display turns off, and the device enters a low-power state. The device retains RAM data for approximately 5 minutes.

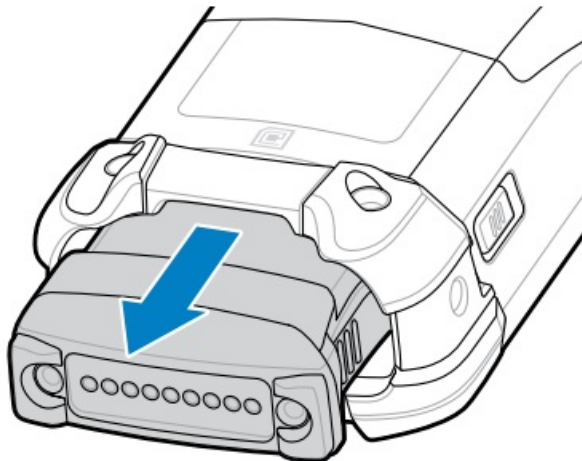
Replace the battery within 5 minutes to preserve memory persistence.



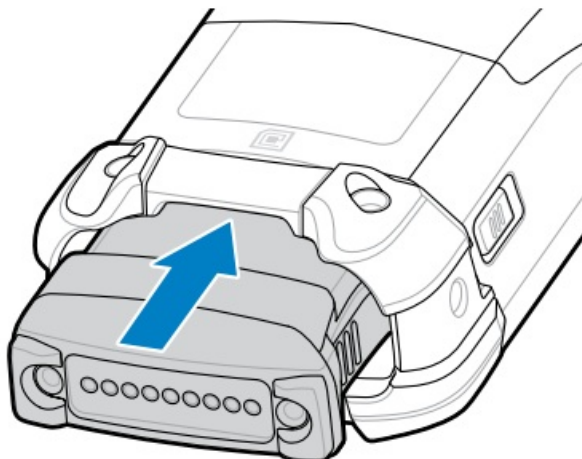
2. Push in the secondary battery release latches on the sides of the battery.



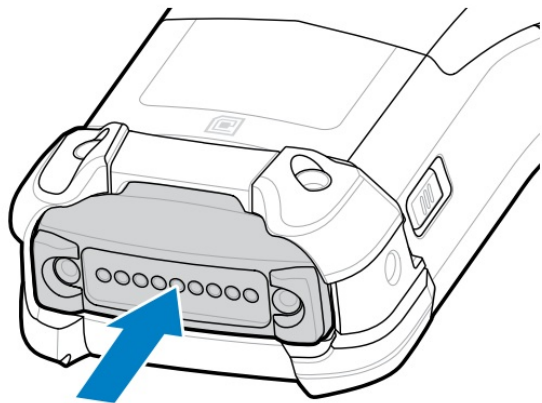
3. Remove the battery from the battery slot.



4. Align the battery with the battery slot.



5. Push the battery into the battery slot.




6. Press the battery firmly into the battery well.

Ensure that both the battery release latches on the sides of the device return to the home position. You will hear an audible click sound indicating that both the battery release latches have returned to the home position, locking the battery in place.

7. Press Power to turn on the device.

Charging the Device

To achieve optimal charging results, use only Zebra charging accessories and batteries. Charge batteries at room temperature with the device in sleep mode. A standard battery charges from fully depleted to 90% in approximately 4 hours and from fully depleted to 100% in approximately 5 hours. In many cases, a 90% charge provides enough charge for daily use. Depending on the usage profile, a full 100% charge may last for approximately 14 hours of use.

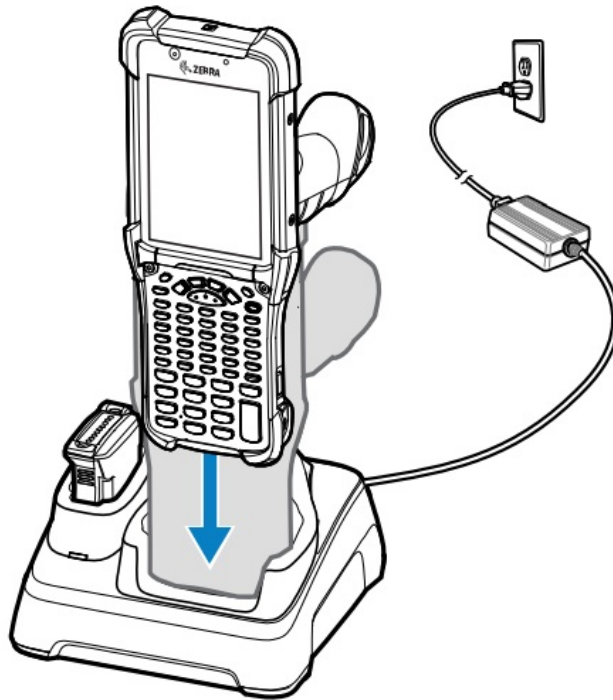
 **NOTE:** Ensure that you follow the guidelines for battery safety described in the Product Reference Guide. The device or accessory always performs battery charging in a safe and intelligent manner. The device or accessory indicates when charging is disabled due to abnormal temperatures via its LED, and a notification appears on the device display.

Temperature	Battery Charging Behavior
0°C to 40°C (32°F to 104°F)	Optimal charging range.
0 to 20°C (32 to 68°F) 37 to 40°C (98 to 104°F)	Charging slows to optimize the JEITA requirements of the cell.
Below 0°C (32°F) Above 40°C (104°F)	Charging stops.
Above 58°C (136°F)	The device shuts down.

To charge the device using a cradle:

1. Connect the cradle to the appropriate power source.
2. Insert the device into the slot in the cradle to begin charging. Gently press down on the device to ensure that it is properly seated.

Figure 3 1-Slot USB Charge Cradle with Spare Battery Charger



The device turns on and begins charging. The charging/notification LED indicates the battery charging status.

1. When charging is complete, remove the device from the cradle slot.

See Also

Charging Indicators

Charging the Spare Battery

1. Connect the charger to a power source.
2. Insert the battery into a spare battery charging slot and gently press down on the battery to ensure proper contact. The spare battery charging LEDs on the front of the cradle indicates the spare battery charging status.
3. When charging is complete, remove the battery from the charging slot.

Charging Indicators

The Charge LED Indicator indicates the charge status.

Table 1 LED Charge Indicators

Status	Indications
Off	<ul style="list-style-type: none"> •The battery is not charging. • The device is not inserted correctly in the cradle or connected to a power source. • Cradle is not powered.
Slow Blinking Amber Every 3 seconds	<ul style="list-style-type: none"> • Battery is charging, but the battery is fully depleted and does not yet have sufficient charge to power the device. • After battery removal, indicates that the device is in hot swap mode with connectivity persistence. <p>The SuperCap requires a minimum of 15 minutes to fully charge in order to provide adequate connectivity and memory session persistence.</p>
Solid Amber	<ul style="list-style-type: none"> • Battery is charging.
Solid Green	<ul style="list-style-type: none"> • Battery charging is complete.
Fast Blinking Red 2 blinks /second	<p>Charging error. For example:</p> <ul style="list-style-type: none"> • Temperature is too low or too high. • Charging has gone on too long without completion (typically 8 hours).
Solid Red	<ul style="list-style-type: none"> • Battery is charging and battery is at the end of useful life. • Charging complete and battery is at the end of useful life.

Accessories for Charging

Use one of the following accessories to charge the device and/or spare battery.

Table 2 Charging and Communication

Description	Part Number	Charging		Communication	
		Main Battery (In device)	Spare Battery	USB	Ethernet
1-Slot USB Charge Cradle with Spare Battery Charger	CRD-MC93-2SUCHG-01	Yes	Yes	Yes	No
4-Slot Charge Only Share Cradle	CRD-MC93-4SCHG-01	Yes	No	No	No
4-Slot Ethernet Share Cradle	CRD-MC93-4SETH-01	Yes	No	No	Yes
4-Slot Spare Battery Charger	SAC-MC93-4SCHG-01	No	Yes	No	No
16-Slot Spare Battery Charger	SAC-MC93-16SCHG-01	No	Yes	No	No
USB Charge/Com Snap-on Cup	CBL-MC93-USBCHG-01	Yes	No	Yes	No

1-Slot USB Charge Cradle with Spare Battery Charger

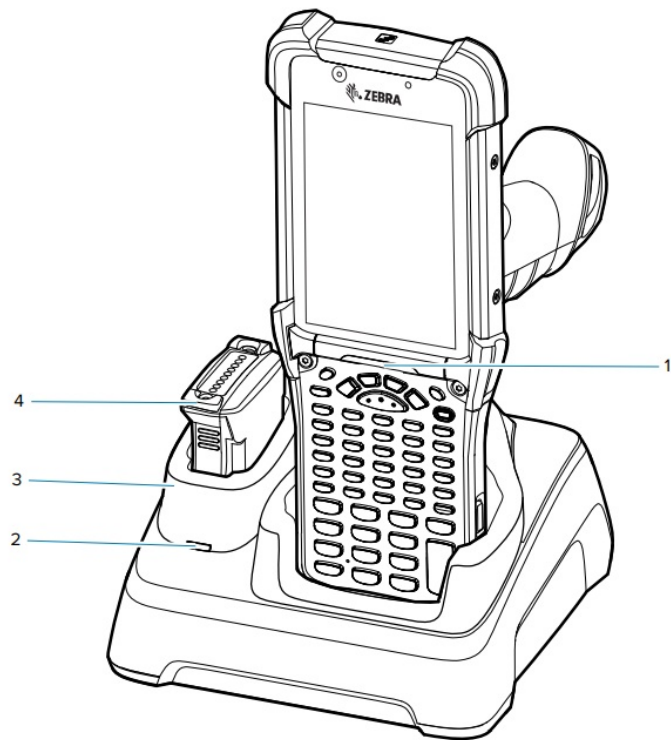
The 1-Slot USB charge cradle charges the main battery and a spare battery simultaneously.



NOTE: Ensure that you follow the guidelines for battery safety described in the Product Reference Guide.
The 1-Slot USB Charge Cradle with spare battery:

- Provides 9 VDC power to operate the mobile computer and charge the battery.
- Provides 4.2 VDC power to charge the spare battery.
- Provides a USB port for data communication between the mobile computer and a host computer or other USB devices, for example, a printer.
- Synchronizes information between the mobile computer and a host computer. With customized or thirdparty software, it can also synchronize the mobile computer with corporate databases.
- Compatible with the following batteries:
 - 7000mAh Power Precision+ standard battery
 - 5000mAh Power Precision+ freezer battery
 - 7000mAh Power Precision+ non-incentives battery

Figure 4 1-Slot USB Charge Cradle with Spare Battery Charger



1	Indicator LED bar
2	Spare battery charging LED
3	Spare battery charging well
4	Spare battery

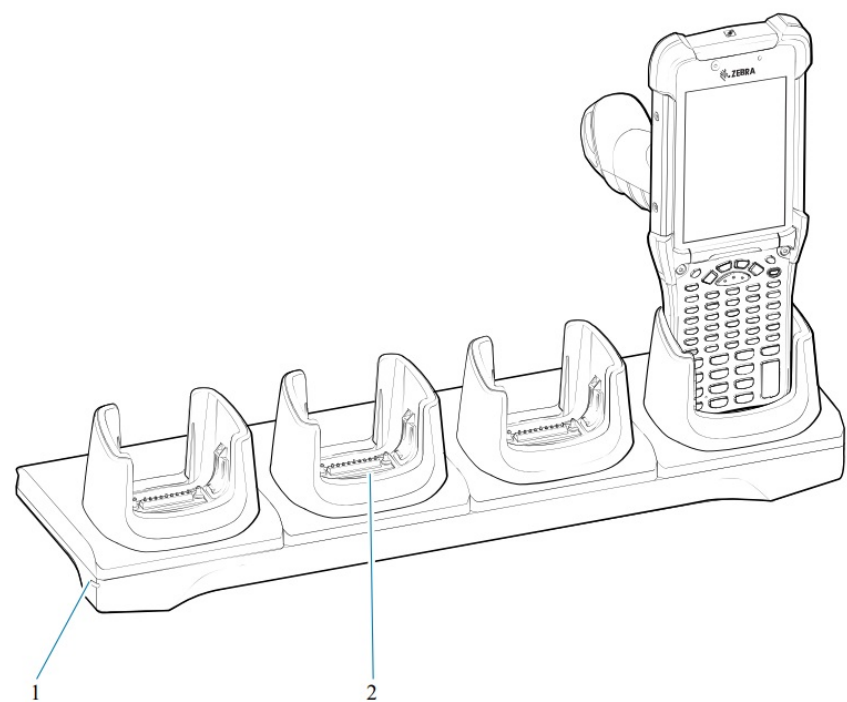
4-Slot Charge Only Share Cradle

NOTE: Ensure that you follow the guidelines for battery safety described in the Product Reference Guide.
 The 4-Slot Charge Only Share Cradle:

- Provides 9 VDC power to operate the mobile computer and charge the battery.
- Simultaneously charges up to four mobile computers.
- Compatible with devices using the following batteries:


- 7000mAh Power Precision+ standard battery
- 5000mAh Power Precision+ freezer battery
- 7000mAh Power Precision+ nonamended battery.

Figure 5 4-Slot Charge Only Share Cradle



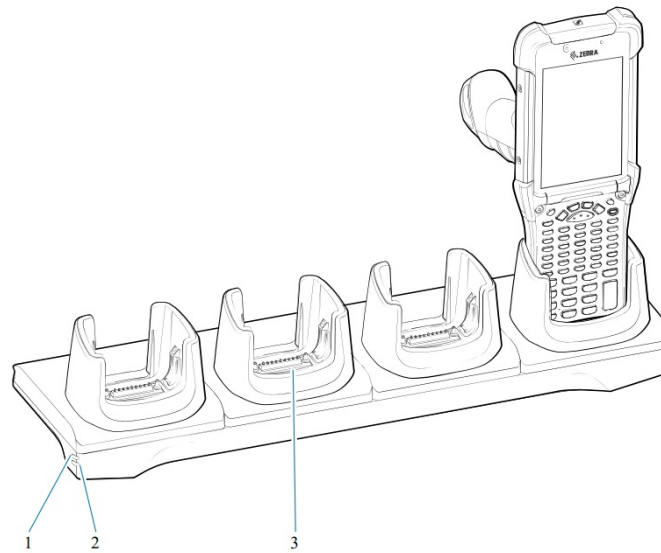
1	Power LED
2	Charging slot

4-Slot Ethernet Share Cradle

 **NOTE:** Ensure that you follow the guidelines for battery safety described in the Product Reference Guide. The 4-Slot Ethernet Share Cradle:

- Provides 9 VDC power to operate the mobile computer and charge the battery.
- Simultaneously charges up to four mobile computers.
- Connects up to four devices to an Ethernet network.
- Compatible with devices using the following batteries:
 - 7000mAh Power Precision+ standard battery
 - 5000mAh Power Precision+ freezer battery
 - 7000mAh Power Precision+ non-incentive battery.

Figure 6 4-Slot Ethernet Share Cradle



1	1000Base-T LED
2	10/100Base-T LED
3	Charging slot

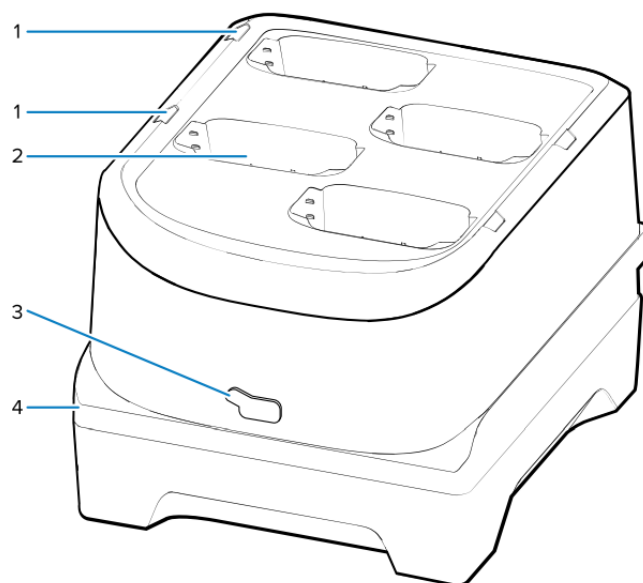
4-Slot Spare Battery Charger



NOTE: Ensure that you follow the guidelines for battery safety described in the Product Reference Guide. The 4-Slot Spare Battery Charger:

- Charges up to four spare batteries.
- Provides 4.2 VDC power to charge the spare battery.

Figure 7 4-Slot Spare Battery Charger Cradle



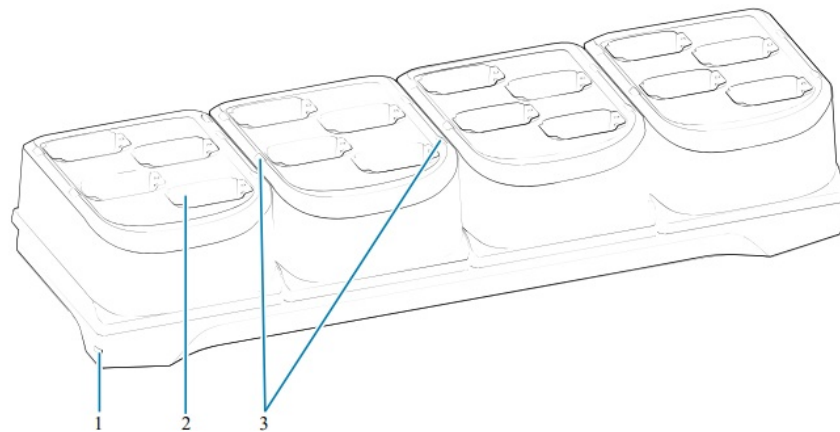
1	Spare battery charging LEDs
2	Charging slot
3	USB-C port (used for reprogramming this charger)
4	Power LED

16-Slot Spare Battery Charger

NOTE: Ensure that you follow the guidelines for battery safety described in the Product Reference Guide.
The 16-Slot Spare Battery Charger:

- Charges up to 16 spare batteries.
- Provides 4.2 VDC power to charge the spare battery.

Figure 8 16-Slot Spare Battery Charger



1	Power LED
2	Charging slot
3	Spare battery charging LEDs

USB Charge/Com Snap-on Cup



NOTE: Ensure that you follow the guidelines for battery safety described in the Product Reference Guide.

The USB Charge/Com Snap-on Cup:

- Provides 5 VDC power to operate the device and to charge the battery.
- Provides power and/or communication with the host computer over USB to the device.

Figure 9 USB Charge/Com Snap-on Cup



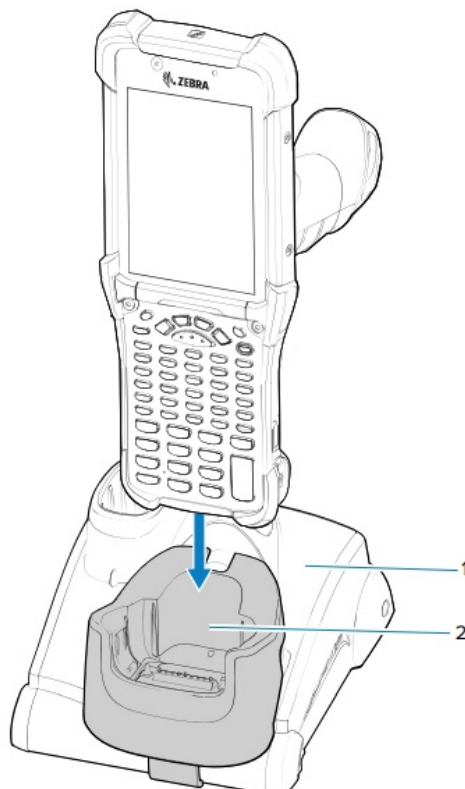
1	Pigtail with USB Type C socket
2	USB charge/com snap-on cup

Charge Only Adapter

Use the charge only adapter for compatibility with other MC9x cradles.

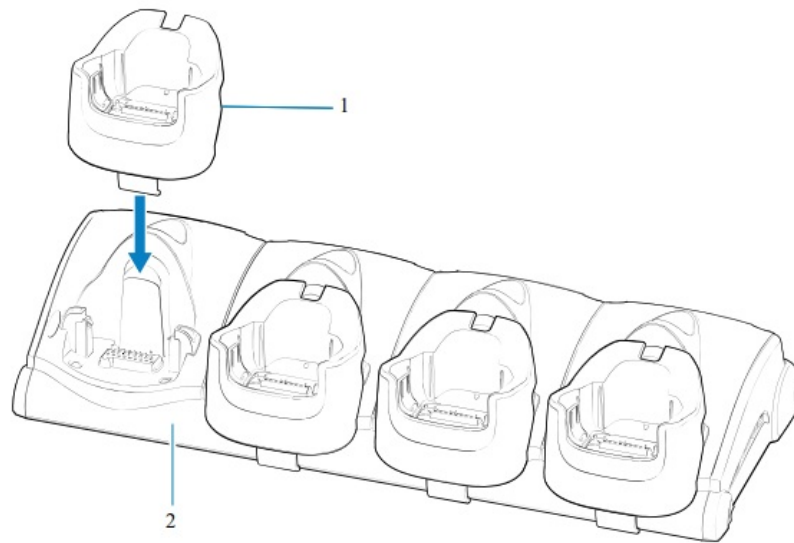
- The charge only adapter can be installed on any MC9x single-slot or multi-slot cradle (charge only or Ethernet).
- When used with MC9x cradles, the adapter provides the ability to charge but no USB or Ethernet communication.

Figure 10 MC9x 1-Slot Cradle with Charge Only Adapter



1	MC9x 1-Slot cradle
2	Charge only adapter

Figure 11 MC9x 4-Slot Cradle Charge Only Adapter

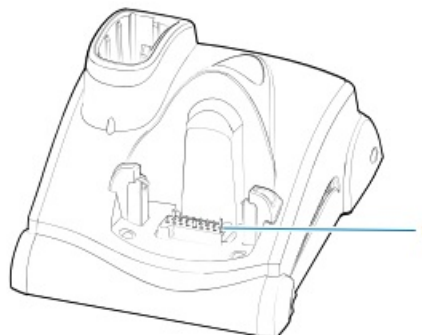


1	Charge only adapter
2	MC9x 4-Slot cradle

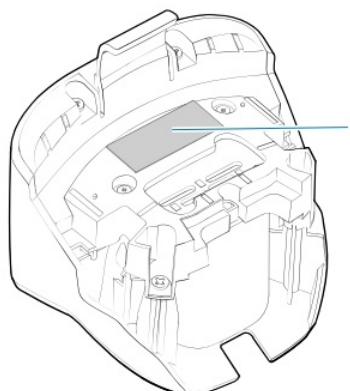
Installing the Adapter

Follow these instructions to install the charge only adapter.

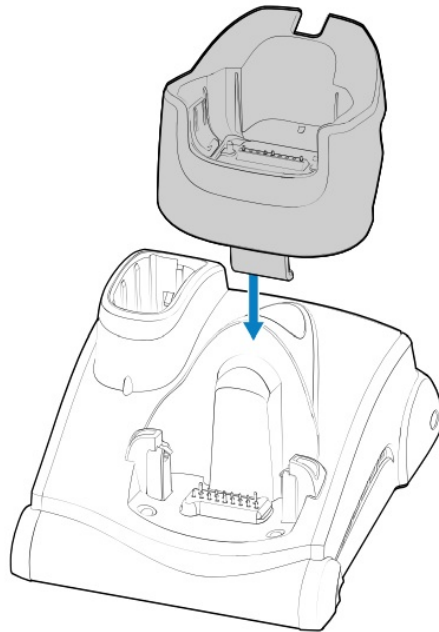
1. Clean the cradle and contacts surface (1) with an alcohol wipe, using a back and forth motion with your finger.



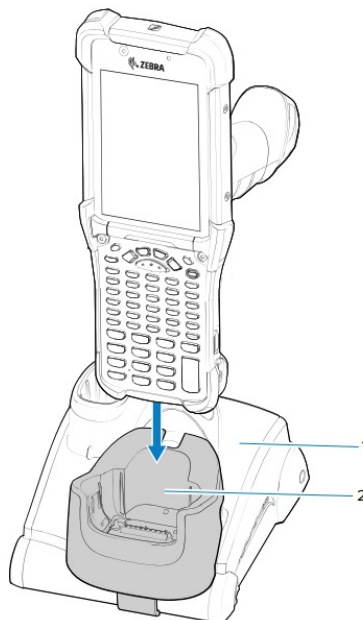
2. Peel and remove the adhesive (1) from the back of the adapter.



3. Insert the adapter into the MC9x cradle, and press it into the bottom of the cradle.



4. Insert the device into the adapter (2).



Ergonomic Considerations

Taking breaks and task rotation are recommended.

Optimum Body Posture

Figure 12 Alternate between left and right hand



Optimize Body Posture for Scanning
Figure 13 Alternate left and right knees



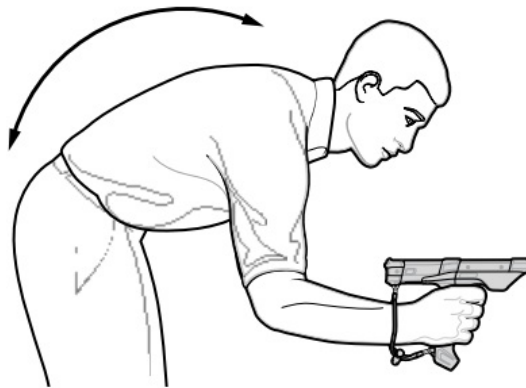
Figure 14 Use a ladder



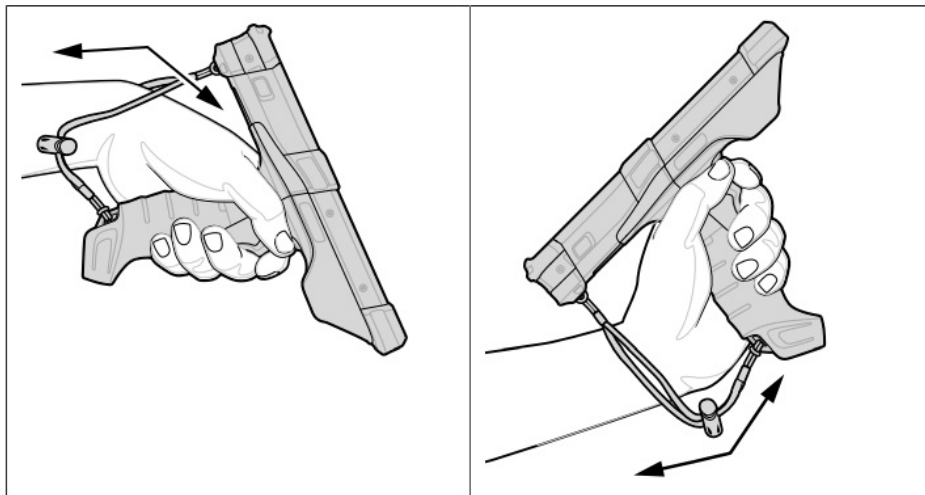
Figure 15 Avoid reaching



Figure 16 Avoid bending




Avoid Extreme Wrist Angles



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Documents / Resources

	<p>ZEBRA MC9401 Mobile Computer [pdf] User Guide MC9401, MC9401 Mobile Computer, Mobile Computer, Computer</p>
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References

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