

MOBILE COMPUTER

MC9400/MC9450

Quick Start Guide

MN-004783-03EN Rev A



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Unpacking the Device

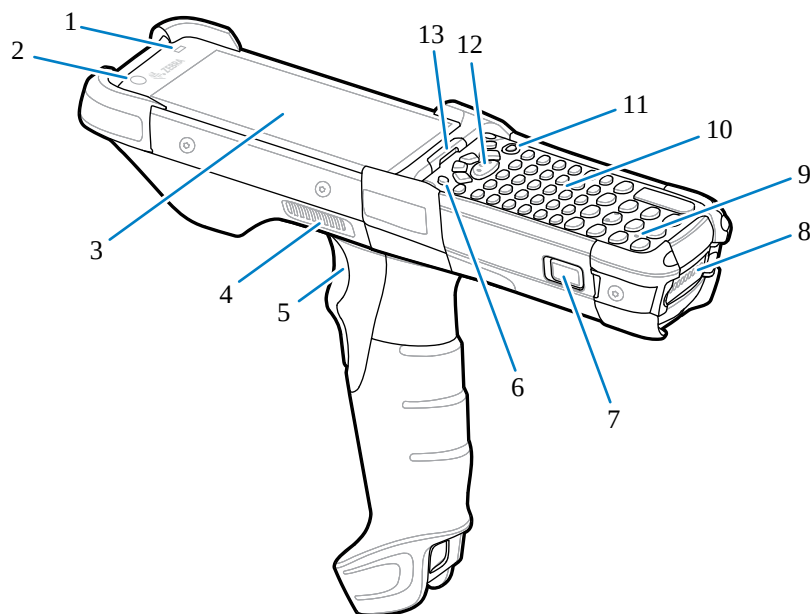
Follow these steps when unpacking the device for the first time.

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
 - PowerPrecision+ 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.

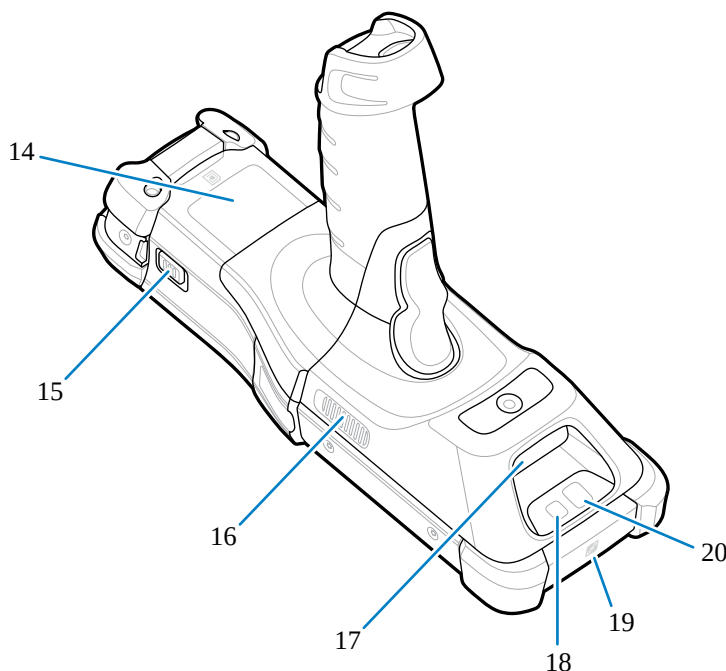
Figure1 Top View



Number	Item	Description
1	Ambient light sensor	Controls display and keyboard backlight.
2	8 MP front-facing camera	Use to take photos and videos.
3	Display	Displays all information needed to operate the device.

Number	Item	Description
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: • 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.

Number	Item	Description
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	16 MP 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

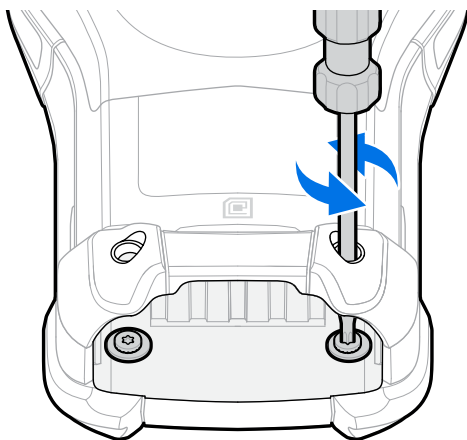
The microSD card slot provides secondary non-volatile storage. The slot is located under the keypad module. For more information, refer to the documentation provided with the card, and follow the manufacturer's recommendations for use. It is strongly recommended that, prior to use, you format the microSD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

Use a long, thin  Torx T8 screwdriver with a minimum length of 38 mm (1.5 in.) and a maximum diameter of 4.6 mm (3/16 in.) to remove and replace the screws on the device.

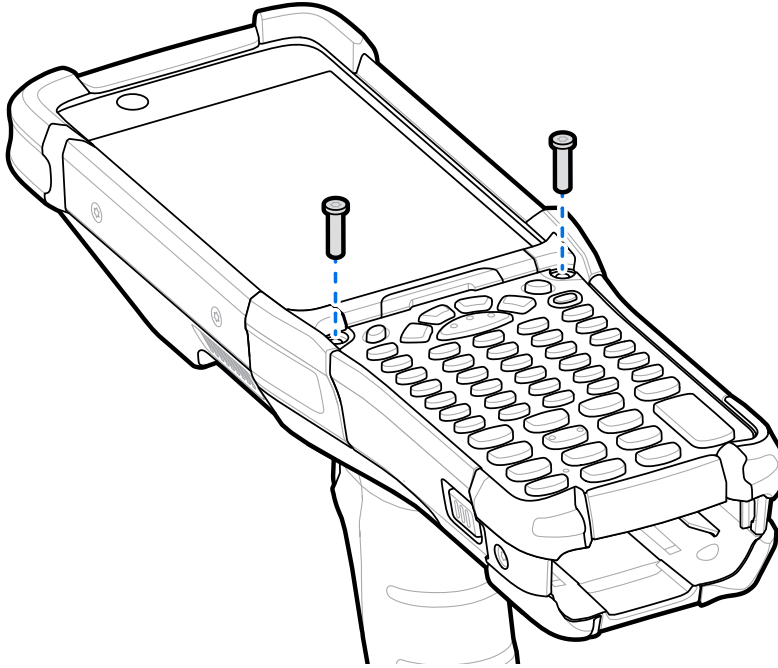


CAUTION: Follow proper electrostatic discharge (ESD) precautions to avoid damaging the microSD card. Proper ESD precautions include but are not limited to, working on an ESD mat and ensuring that the operator is properly grounded.

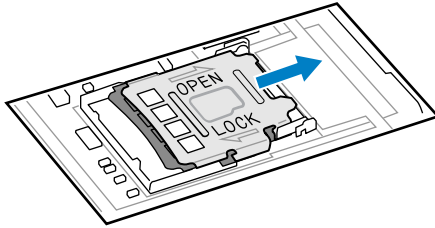
1. Power off the device.
2. Remove the battery
3. Use the screwdriver to remove the two screws from inside the battery slot.



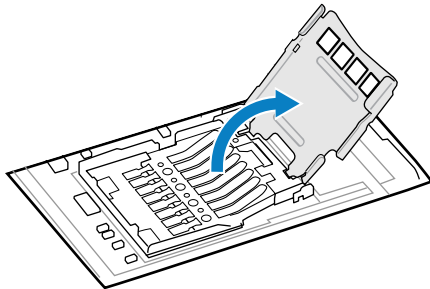
4. Turn the device over so that the keypad is visible.
5. Use the screwdriver to remove the two keypad assembly screws from the top of the keypad.



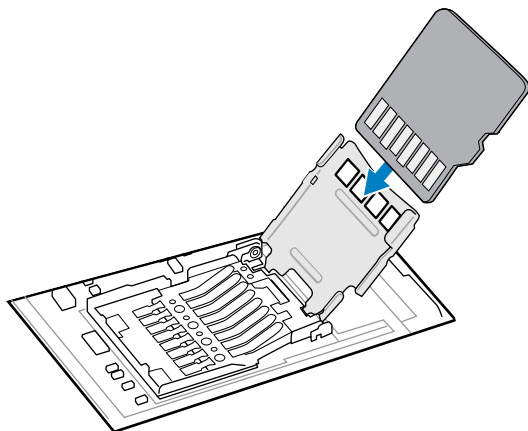
6. Lift the keypad from the device to expose the microSD card holder.
7. Slide the microSD card holder to the Open position.



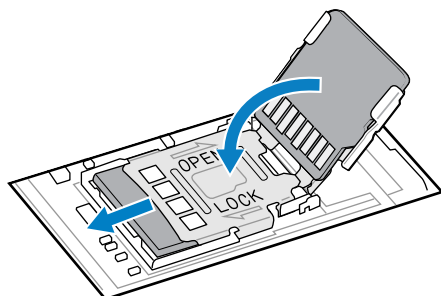
8. Raise the microSD card holder.



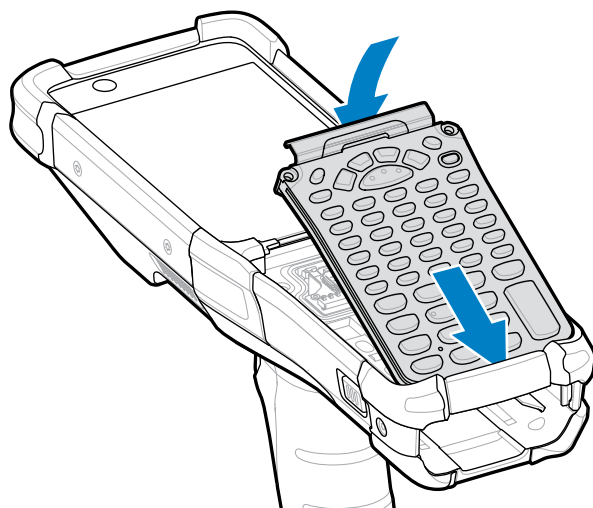
9. Insert the microSD card into the card holder, ensuring that the card slides into the holding tabs on each side.



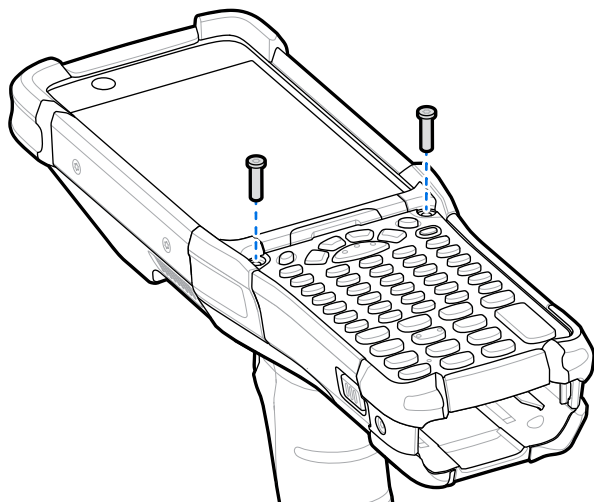
10. Close the microSD card holder and slide it to the Lock position.



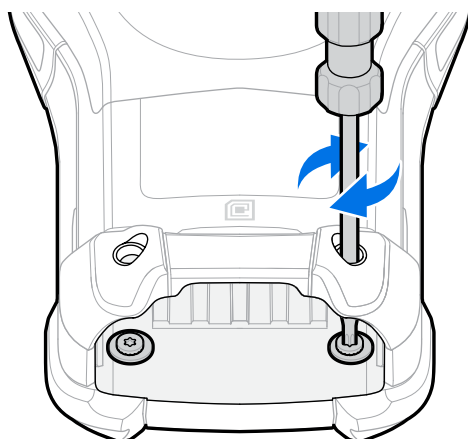
11. Align the keypad along the bottom ridge of the device, and then lay it flat.



12. Use the screwdriver to 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. Use the screwdriver to replace the two screws inside the battery slot and torque to 4.6 kgf-cm (4.0 lbf-in).

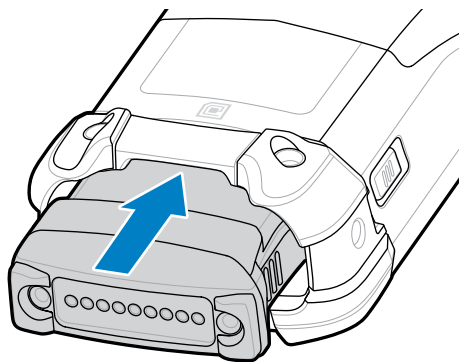


15. Insert the battery.
16. Press and hold **Power** to power on the device.

Installing the Battery

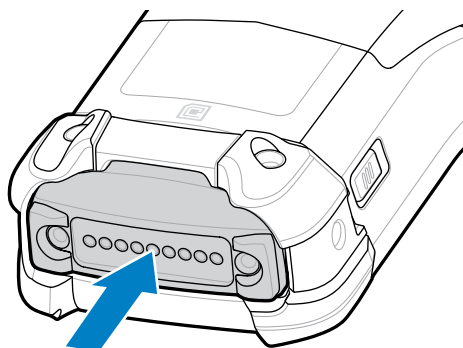
This section describes how to install the battery into the device.

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.



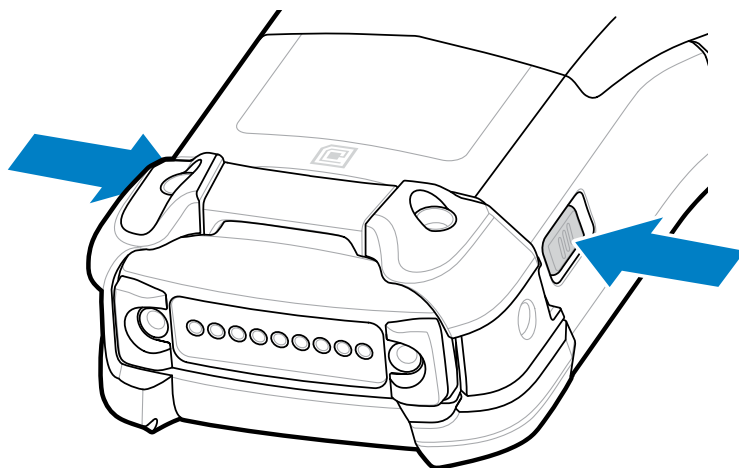
4. Press **Power** to turn on the device.

Replacing the Battery

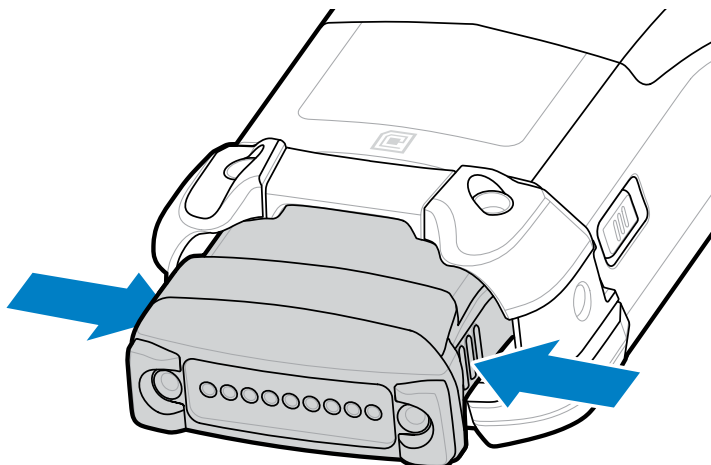
This section describes how to replace the battery in the device.

1. Push in the two primary battery release latches.

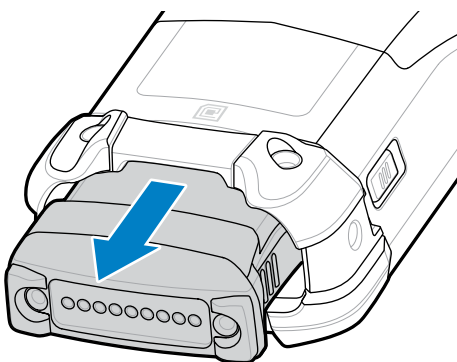
The battery ejects slightly. With Hot Swap mode, when you remove the battery, the display turns off, and the device enters a low-power state. The device retains RAM data for approximately 5 minutes. Replace the battery within 5 minutes to preserve memory persistence.



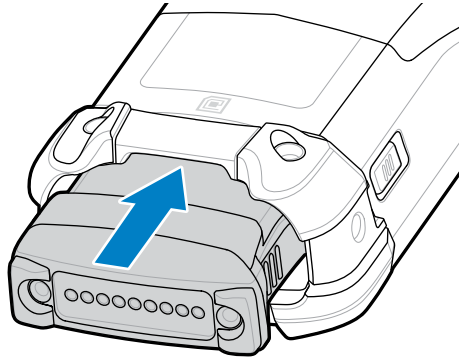
2. Push in the secondary battery release latches on the sides of the battery.



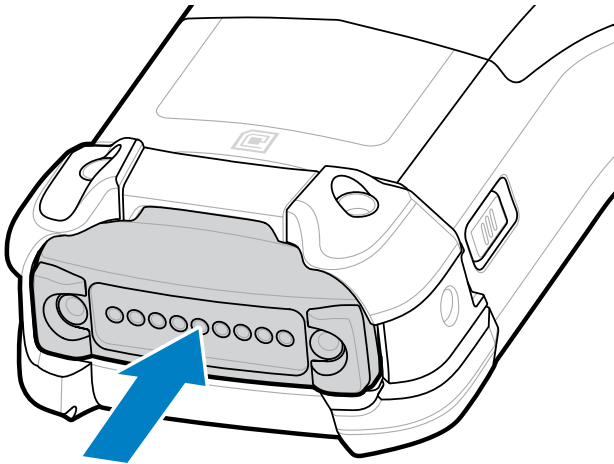
3. Remove the battery from the battery slot.



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.

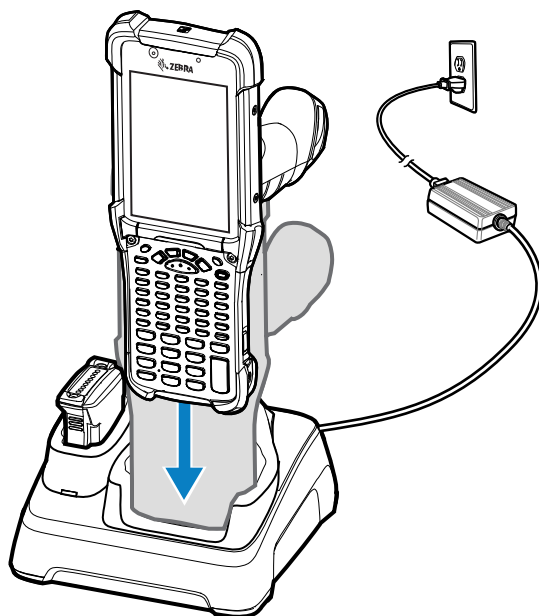
The device or accessory always performs battery charging in a safe and intelligent manner. The device or accessory indicates when charging is disabled due to abnormal temperatures via its LED, and a notification appears on the device display.

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.

3. 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	• The battery is not charging. • The device is not inserted correctly in the cradle or connected to a power source. • The device is not powered.
Slow Blinking Amber Every 3 seconds	• The battery is charging, but it is fully depleted and does not yet have sufficient charge to power the device. • After battery removal, it indicates that the device is in hot swap mode with connectivity persistence. The SuperCap requires a minimum of 15 minutes to fully charge in order to provide adequate connectivity and memory session persistence.
Solid Amber	The battery is charging.
Solid Green	Battery charging is complete.
Fast Blinking Red 2 blinks/second	Charging error. For example: • Temperature is too low or too high. • Charging has gone on too long without completion (typically 8 hours).
Solid Red	• The battery is charging and is at the end of its useful life. • Charging is complete, and the battery is at the end of its 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 ShareCradle	CRD-MC93-4SCHG-01	Yes	No	No	No
4-Slot Ethernet ShareCradle	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.

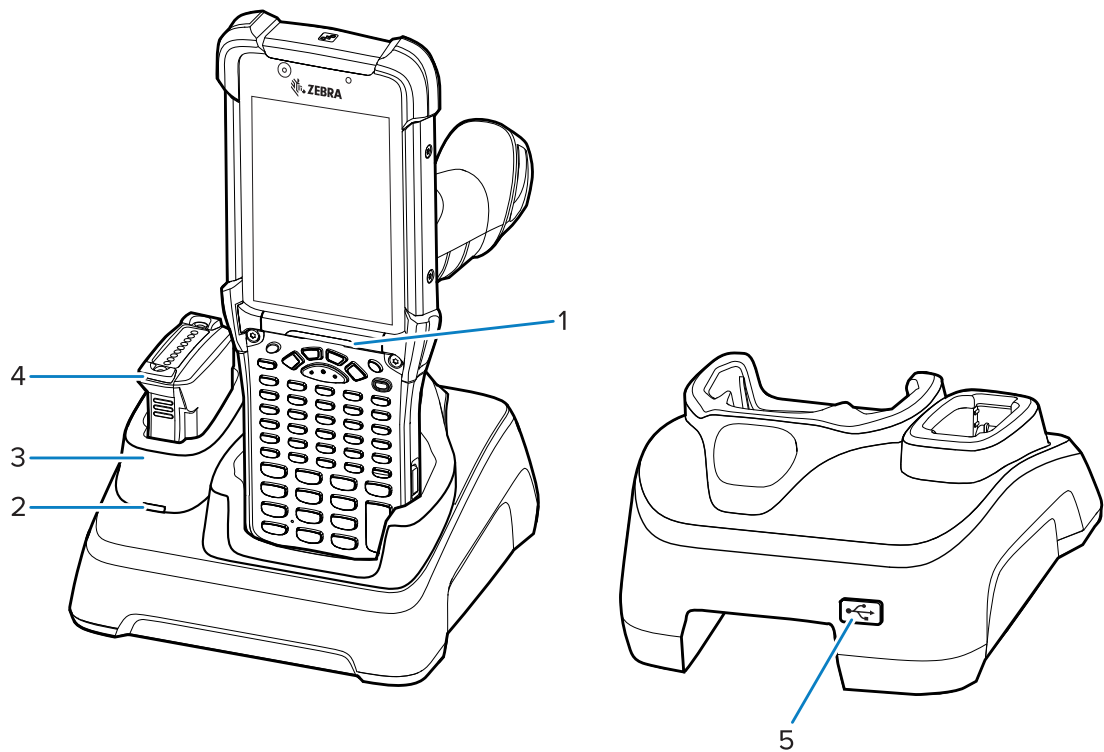


NOTE: Ensure that you follow the guidelines for battery safety described in the Product Reference Guide.

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 third-party software, it can also synchronize the mobile computer with corporate databases.
- Compatible with the following batteries:
 - 7000mAh PowerPrecision+ standard battery
 - 7000mAh PowerPrecision+ standard battery with BLE beacon
 - 5000mAh PowerPrecision+ freezer battery
 - 7000mAh PowerPrecision+ non-incendive 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
5	USB port (for service only)

4-Slot Charge Only ShareCradle

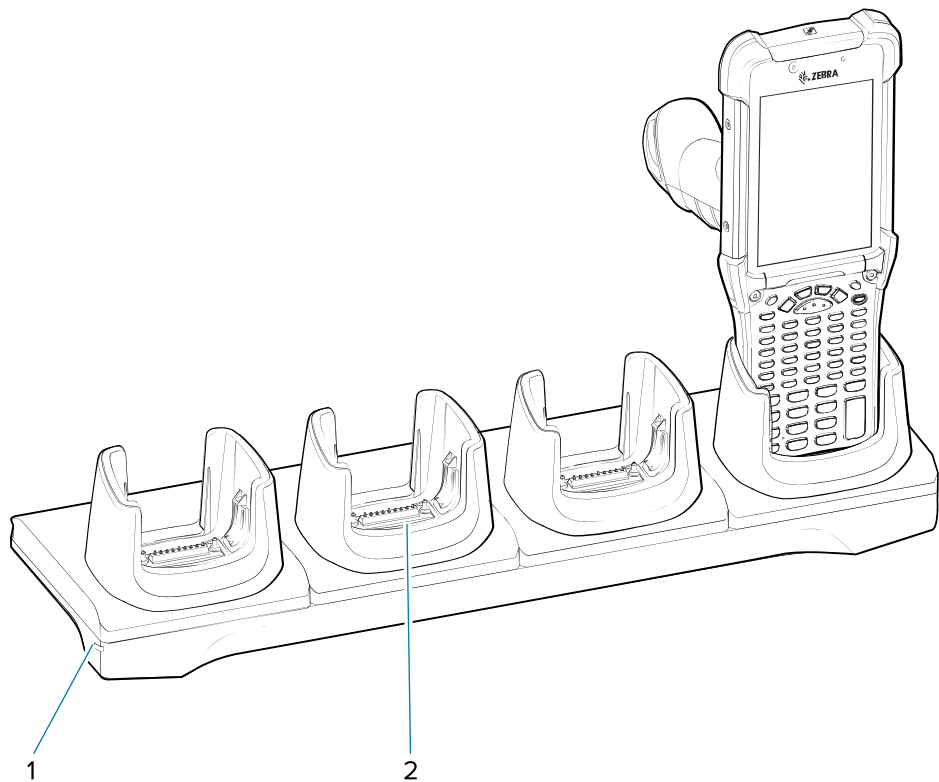


NOTE: Ensure that you follow the guidelines for battery safety described in the Product Reference Guide.

The 4-Slot Charge Only ShareCradle:

- 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 PowerPrecision+ standard battery
 - 7000mAh PowerPrecision+ standard battery with BLE beacon
 - 5000mAh PowerPrecision+ freezer battery
 - 7000mAh PowerPrecision+ non-incendive battery.

Figure 5 4-Slot Charge Only ShareCradle



1	Power LED
2	Charging slot

4-Slot Ethernet ShareCradle

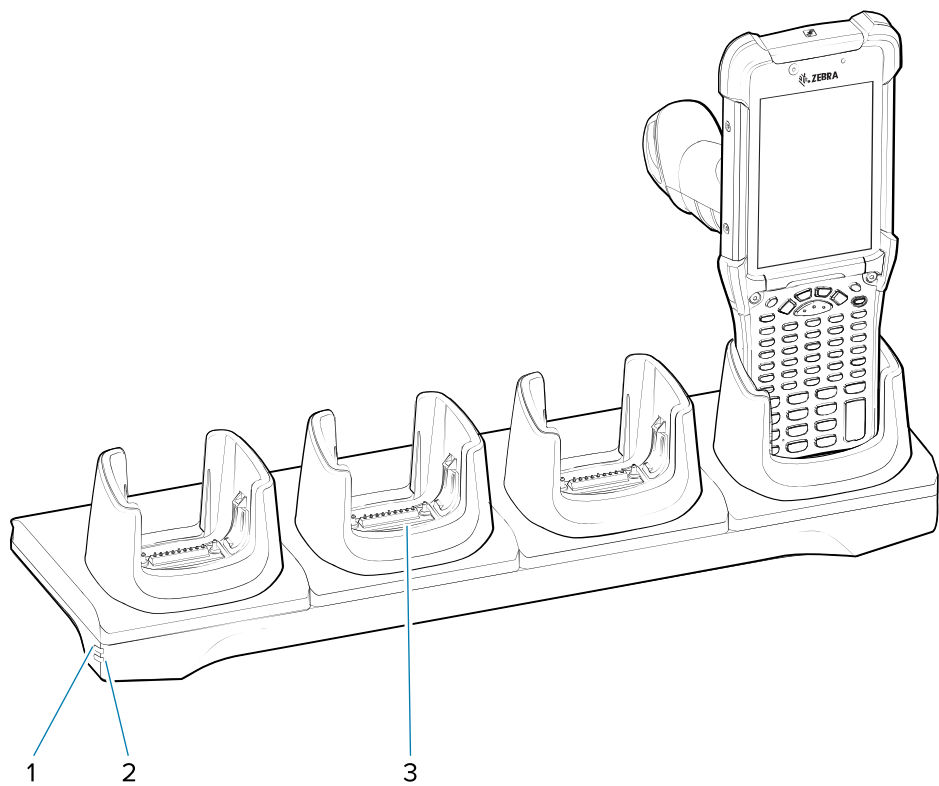


NOTE: Ensure that you follow the guidelines for battery safety described in the Product Reference Guide.

The 4-Slot Ethernet ShareCradle:

- 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 PowerPrecision+ standard battery
 - 7000mAh PowerPrecision+ standard battery with BLE beacon
 - 5000mAh PowerPrecision+ freezer battery
 - 7000mAh PowerPrecision+ non-incendive battery.

Figure 6 4-Slot Ethernet ShareCradle



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

4-Slot Spare Battery Charger

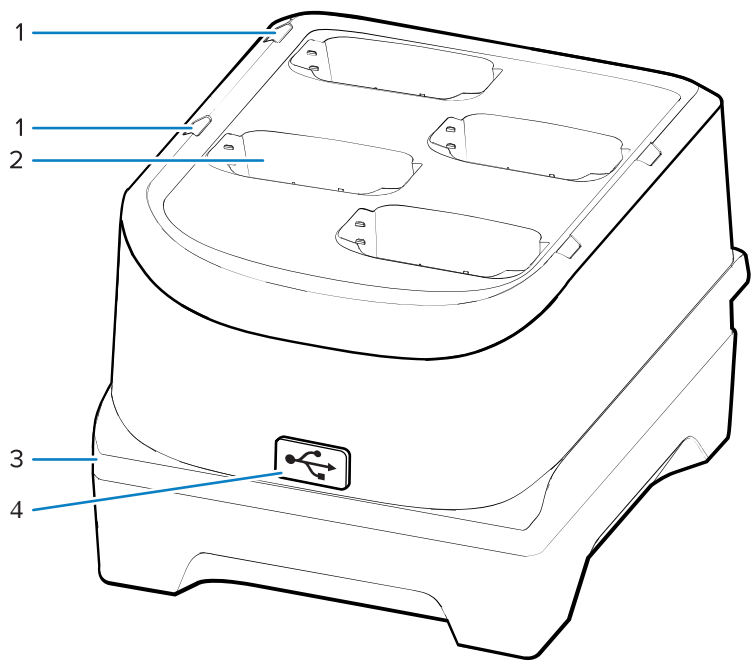


NOTE: Ensure that you follow the guidelines for battery safety described in the Product Reference Guide.

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	Power LED
4	USB port (for service only)

16-Slot Spare Battery Charger

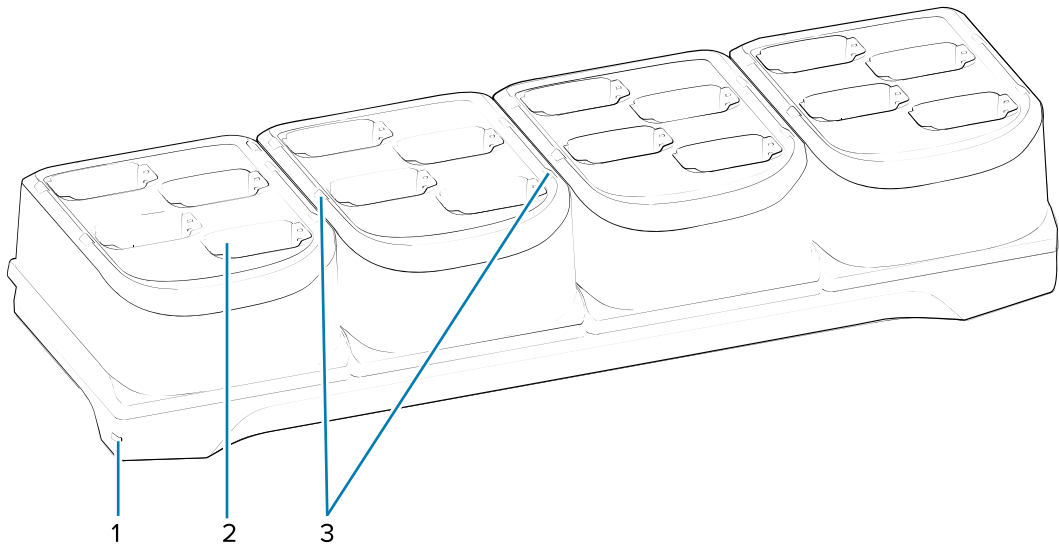


NOTE: Ensure that you follow the guidelines for battery safety described in the Product Reference Guide.

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

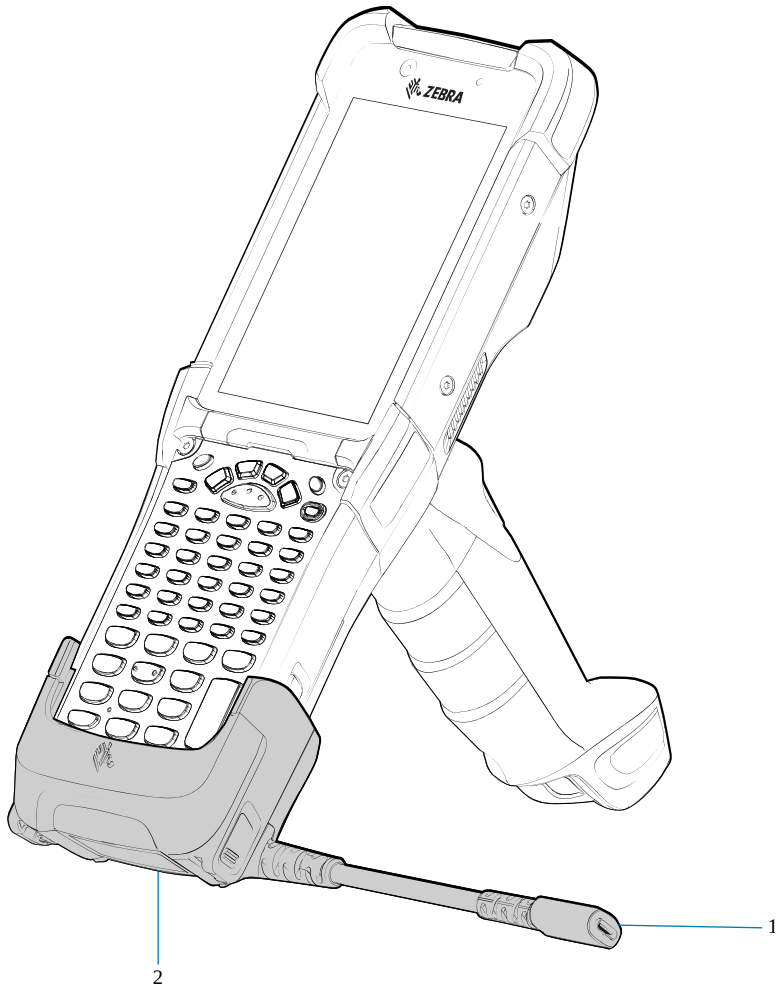


NOTE: Ensure that you follow the guidelines for battery safety described in the Product Reference Guide.

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



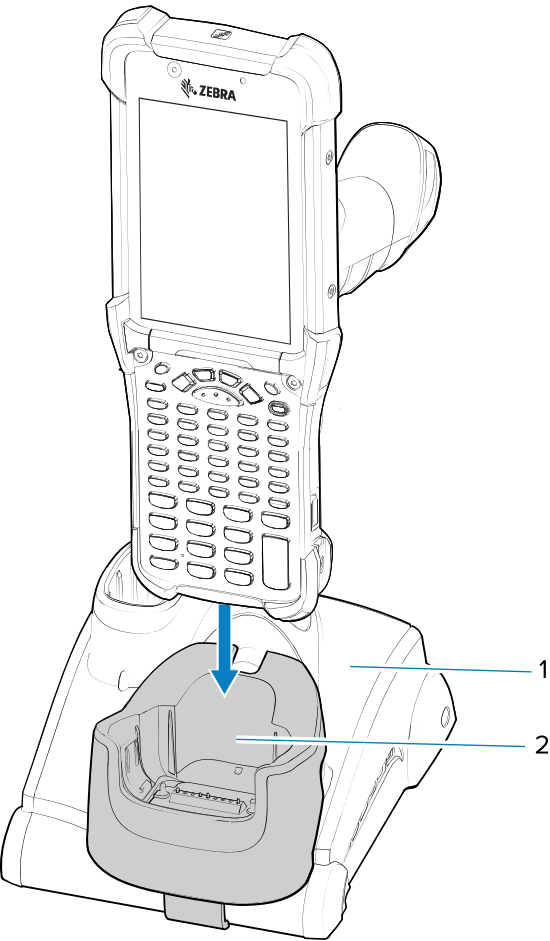
1	Pigtail with USB Type C socket
2	USB charge/com snap-on cup

Charge Only Adapter

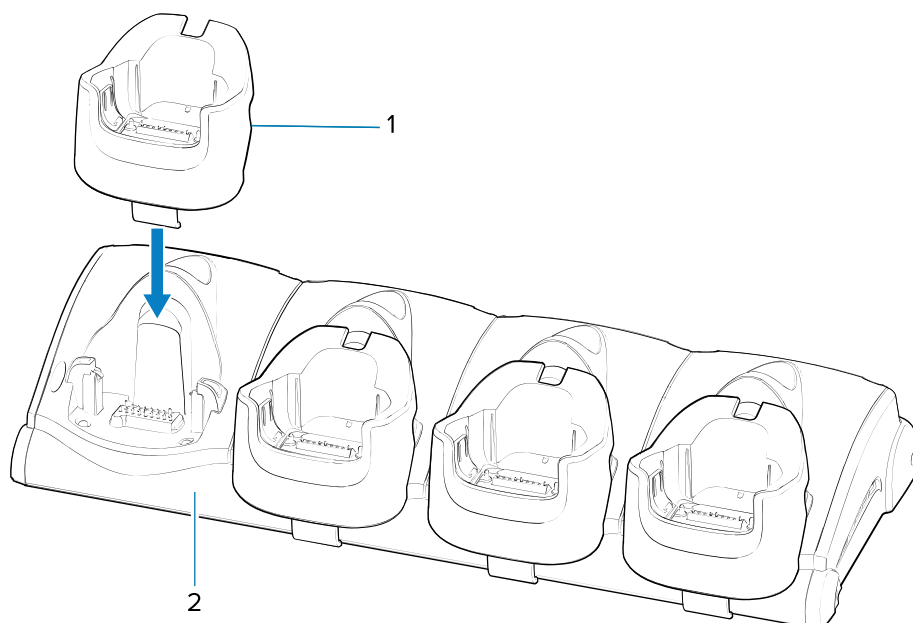
Use the charge only adapter for compatibility with other MC9x cradles.

- 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

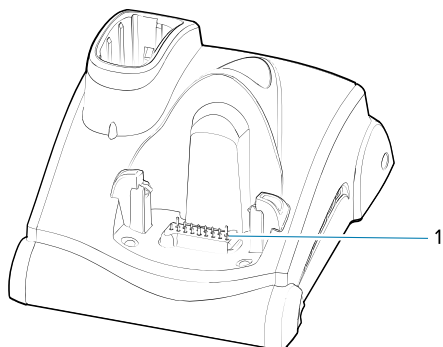
Figure 11 MC9x 4-Slot Cradle Charge Only Adapter

1	Charge only adapter
2	MC9x 4-Slot cradle

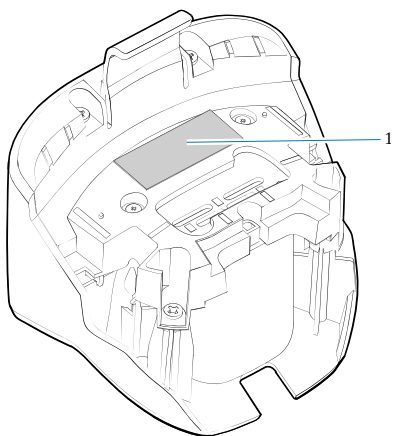
Installing the Adapter

Follow these instructions to install the charge only adapter.

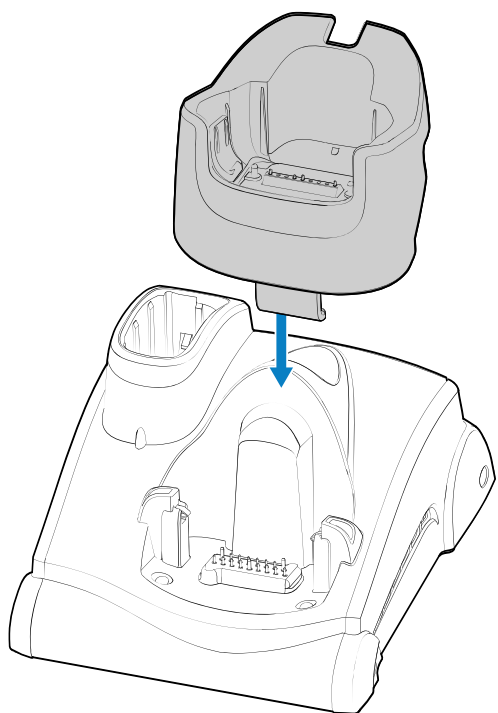
1. Clean the cradle and contacts surface (1) with an alcohol wipe, using a back and forth motion with your finger.



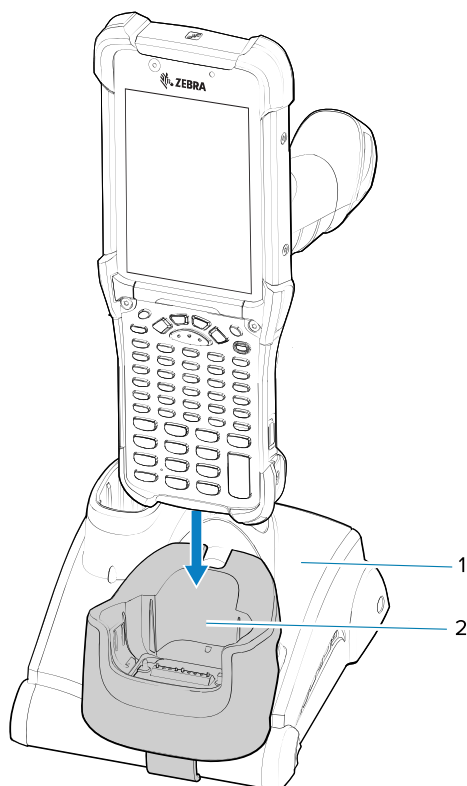
2. Peel and remove the adhesive (1) from the back of the adapter.



- 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).

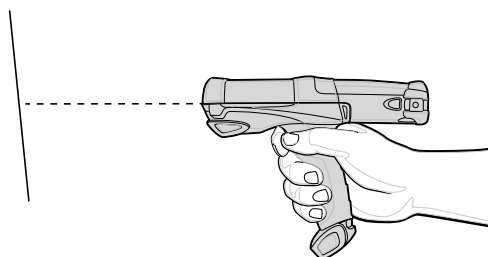


Scanning with the Internal Imager

To read a barcode, a scan-enabled application is required. The device contains the DataWedge application, which allows you to enable the imager, decode the barcode data, and display the barcode content.

1.  **NOTE:** The SE4770/SR560 imager displays a red crosshair aimer. The SE58 displays a green crosshair aimer.
1. Ensure that an application is open on the device and a text field is in focus (text cursor in text field).
2. Point the exit window on the top of the device at a barcode or QR code.
3. Press and hold the scan button.

The device projects the aiming pattern.



2.  **NOTE:** Imager decoding usually occurs instantaneously. When the device is in Picklist mode, the imager does not decode the barcode until the red or green crosshair touches the barcode.

4. Ensure that the barcode is within the area formed in the aiming pattern.

Figure 12 Aiming Patterns

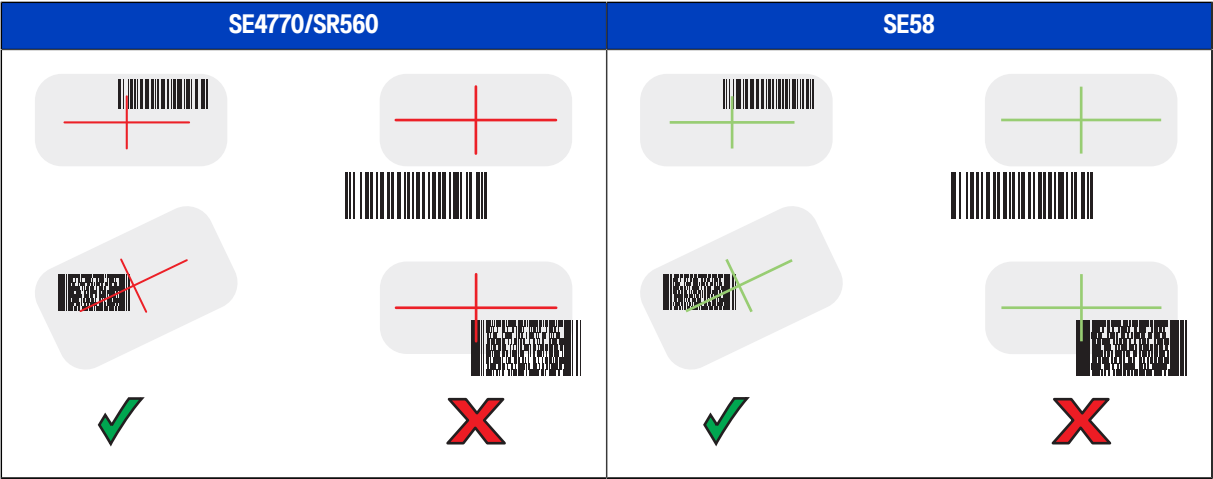
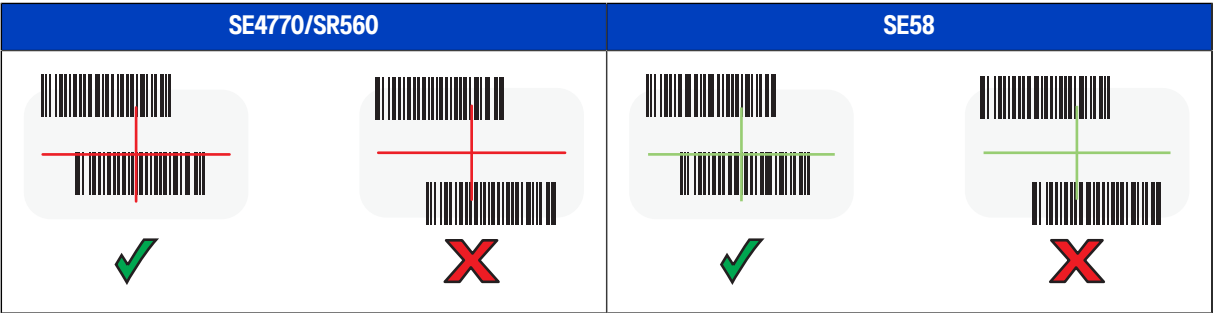


Figure 13 Picklist Mode with Multiple Barcodes in Aiming Pattern



The Data Capture LED lights green, and the device beeps, by default, to indicate that the barcode or QR code was decoded successfully.



NOTE: The device repeats the steps required to take a digital picture (image) of a poor or difficult barcode as long as the scan button remains pressed.

5. Release the scan button.

The device displays the barcode or QR code data in the text field.

Ergonomic Considerations

Taking breaks and task rotation are recommended.

Optimum Body Posture

Figure 14 Alternate between left and right hand



Optimize Body Posture for Scanning

Figure 15 Alternate left and right knees

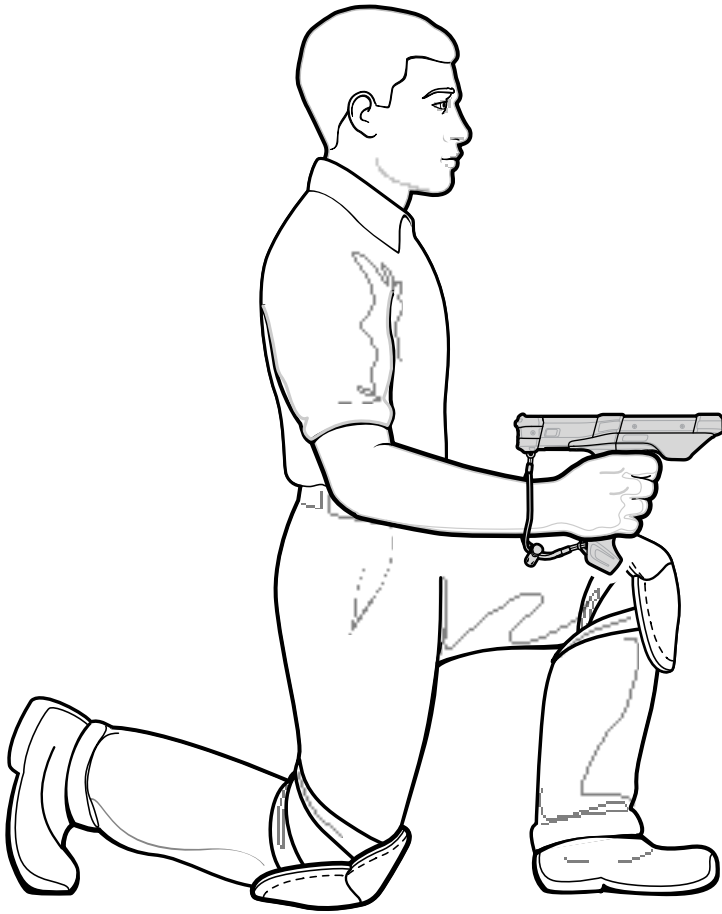


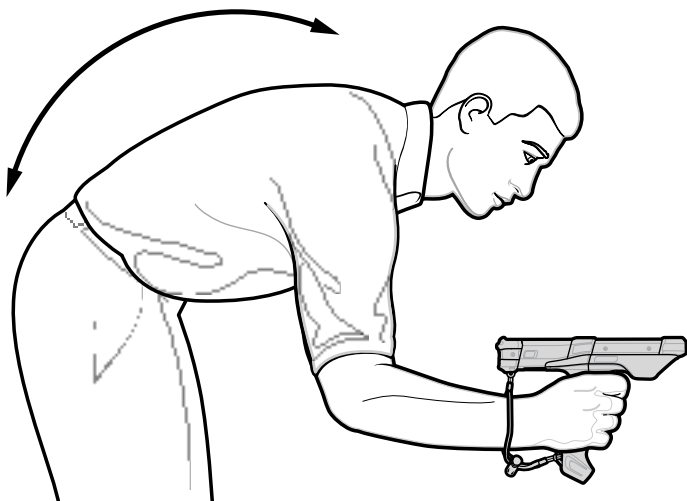
Figure 16 Use a ladder



Figure 17 Avoid reaching



Figure 18 Avoid bending



Avoid Extreme Wrist Angles

