

CR8288 Series Cradle



ZEBRA

Quick Start Guide

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Cradles

The cradles serve as a charger, radio communication interface, and host communication interface for the cordless digital scanner. There are two versions of the cradle: The standard cradle (CR8288-SC) and presentation cradle (CR8288-PC).

- The CR8288-SC cordless cradle sits on a desktop or mounts on a wall, and charges the . This cradle also provides host communication by receiving scanner data via Bluetooth, and sending that data to the host through an attached cable. The cable provides power to the cradle from the host, or optional power supply (if supported).
- The CR8288-PC cordless presentation cradle sits on a desktop and charges the while allowing barcode scanning in presentation mode. This cradle also provides host communication by receiving scanner data via Bluetooth, and sending that data to the host through an attached cable. The cable provides power to the cradle from the host or optional power supply (if supported).



NOTE: No other scanner is compatible with the CR8288-SC and CR8288-PC

Unpacking the Cradle

Unpack and examine all contents before setting up the cradle.

1. Carefully remove the cradle from the box.
2. Verify the following items are in the box:
 - CR8288
 - **USB-C or USB-A cable?**
 - Regulatory guide
3. Inspect the contents for any damage. If any equipment is missing or damaged, contact the Global Customer Support Center immediately.

Accessories

You may need to purchase additional accessories to charge or mount the cradle.

Item	Description
Power Supply	Decreases charging time. Sold separately at zebra.com .
M4 Screws	Used to mount the cradle. Not available from Zebra.
Wall Mount Bracket	Supports a mounted presentation cradle. Sold separately at zebra.com .  NOTE: For Healthcare cradles only: A workstation with a scanner in lamp mode, a special bracket is required. Not available from Zebra.
3M Dual Lock Fasteners	Used to mount the cradle. Sold separately at zebra.com .

Service Information

If you have a problem with your equipment, contact Zebra Global Customer Support for your region. Contact information is available at: zebra.com/support.

When contacting support, please have the following information available:

- Serial number of the unit
- Model number or product name
- Software/firmware type and version number

Zebra responds to calls by email, telephone, or fax within the time limits set forth in support agreements.

If your problem cannot be solved by Zebra Customer Support, you may need to return your equipment for servicing and will be given specific directions. Zebra is not responsible for any damages incurred during shipment if the approved shipping container is not used. Shipping the units improperly can possibly void the warranty.

If you purchased your Zebra business product from a Zebra business partner, contact that business partner for support.

Standard Cradle Features

Main features of the CR8288-SC.

Figure 1 CR8288-SC Front Features

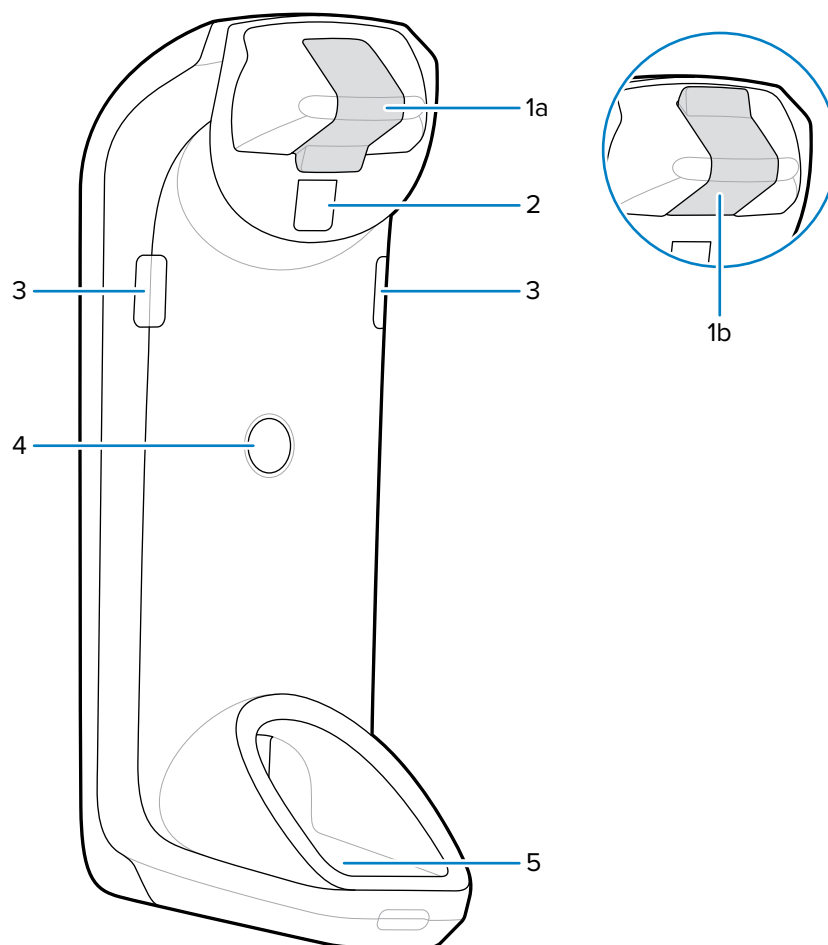
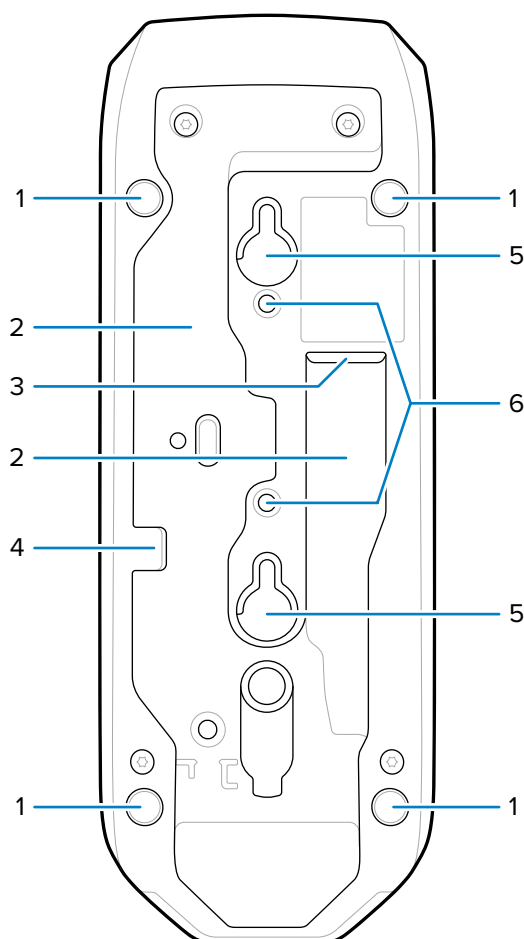


Table 1 CR8288-SC Front Features

Number	Item	Description
1a		
1b		
2	Pairing barcode	
3	LED	
4	Page button	
5	Charge pad	

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Figure 2 CR8288-SC Bottom Features**Table 2** CR8288-SC Front Features

Number	Item	Description
1	Rubber feet	Prevent the cradle from moving around a desktop.
2		
3	USB-A port	Provides charging and communication with a host device.
4		
5	Mounting holes	M4 threaded screw holes.
6		

Presentation Cradle Features

Main features of the CR8288-PC.

Figure 3 CR8288-PC Top Features

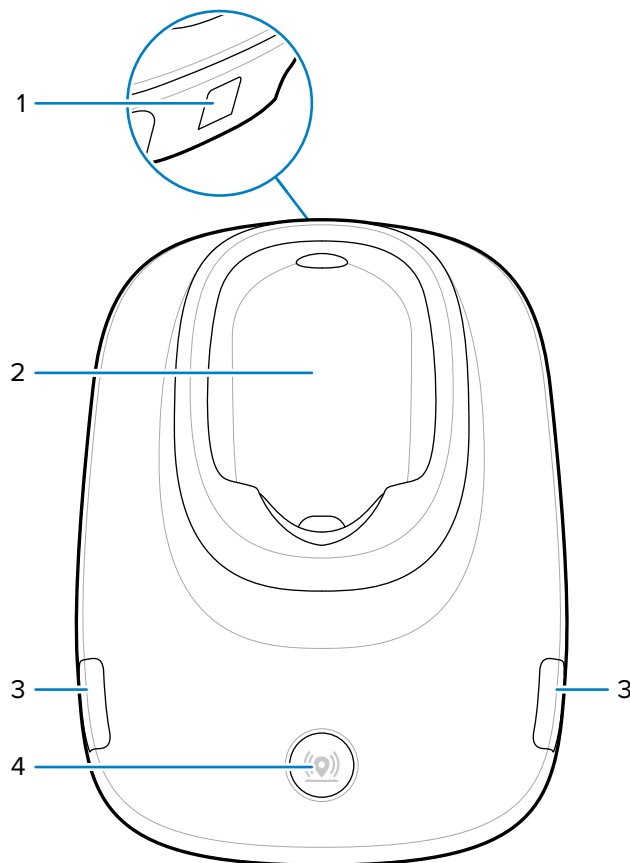
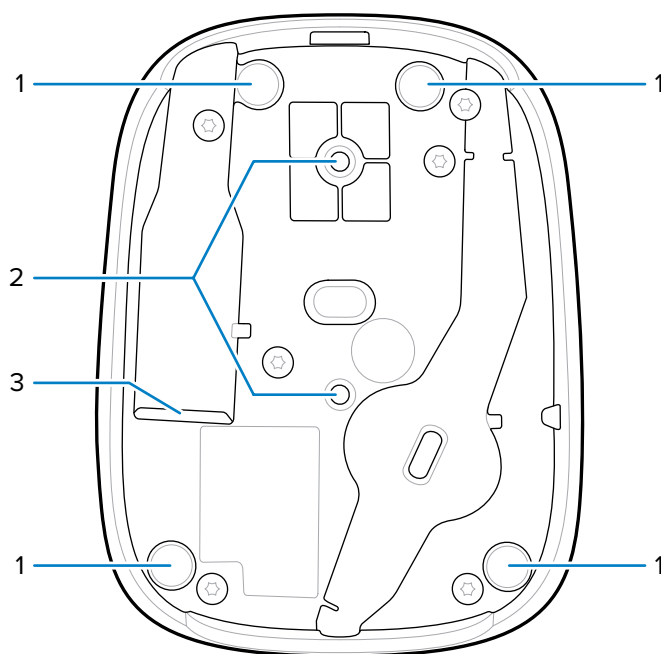


Table 3 CR8288-SC Front Features

Number	Item	Description
1	Pairing barcode	Pairs the cradle with a scanner when scanned.
2	Charge pad	Provides charging and communication with the cradle.
3	LED	Indicates charge status.
4	Page button	Initiates paging status on a paired scanner when pressed.

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Figure 4 CR8288-PC Bottom Features**Table 4** CR8288-SC Bottom Features

Number	Item	Description
1	Rubber feet	Pairs the cradle with a scanner when scanned.
2	Mounting holes	M4 threaded screw holes.
3	USB-A port	Indicates charge status.

Connecting the Cradle

Connect the cradle to a host computer.

1. Connect the appropriate cable to the power supply and AC power source, if necessary. This ensures detection of the host and prevents inadvertently back-powering the cradle from improper detection of the host.
2. Insert the interface cable into the host port.
3. Insert the interface cable into the cradle's host port.
4. For the standard cradle only, thread the interface cable under the interface cable support hook and run the cable along the interface cable groove (if applicable).
5. Pair the digital scanner to the cradle by inserting it in the cradle (if Pair on Contacts is enabled) or by scanning the pairing code.
6. If necessary, scan the appropriate host barcode (for non-autodetected interfaces).

Changing the Host Interface

Connect to a different host or the same host through a different cable.

1. Unplug the interface cable from the host.
2. Unplug the power supply from the cradle.
3. Connect the interface cable to the new host, or the new interface cable to the existing host.
4. If necessary, reconnect the power supply.
5. If necessary, scan the appropriate host barcode (for non-autodetected interfaces). Refer to the scanner's Product Reference Guide.

DC Power Supply

The cradle can operate from host power or DC power. We recommend using DC power if you require fast charging.

The cradle can operate from host-supplied power if it is available. If host power is limited or unavailable, use an external DC power supply and a host interface cable with a power jack. Use an external power supply if you require the fastest charging speed.



CAUTION: Always disconnect the DC power supply before disconnecting the cable to the host end, or the cradle may not recognize the new host.

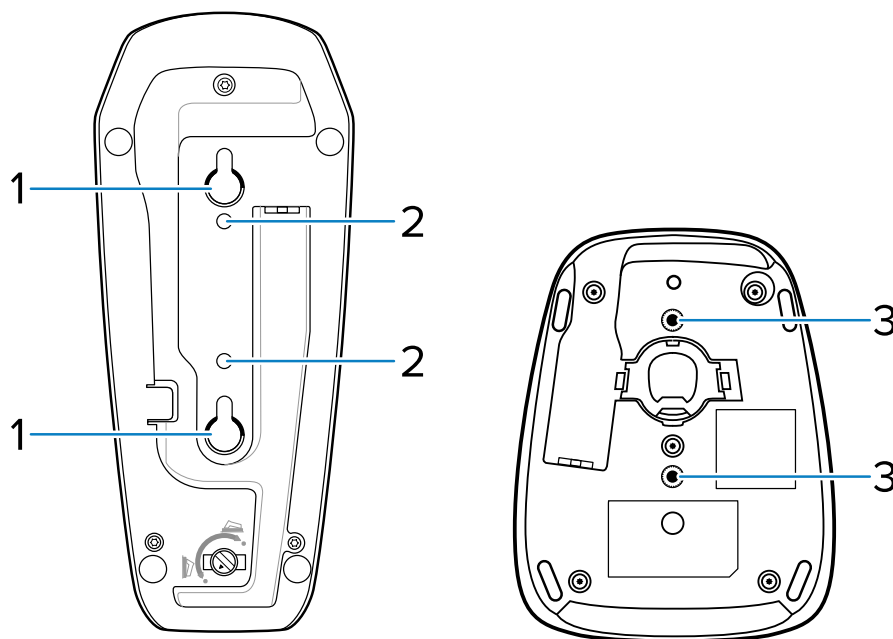
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Mounting the Cradle

Mount the cradle using the mounting features illustrated below.

1. Refer to the documentation included with the cradle.

Figure 5 Mounting Features



1	Distance = 81 mm (3.2 in.)
2	Distance = 45.5 mm (1.8 in.)
3	Distance = 45.5 mm (1.8 in.)

Option	Description
Threaded screw holes	Drill the holes 45.5 mm (1.8 in.) apart.
Keyhole mounts	Install the fasteners 81 mm (3.2 in.) apart.

2. Attach all required interface and power cables.
3. Press the cables into the cable grooves.
4. Mount the cradle.

Option	Description
Threaded screw holes	Secure a screw through the wall/vertical surface and into the threaded screw holes.
Keyhole mounts	Secure the fasteners to the wall and hang the cradle on the fasteners.

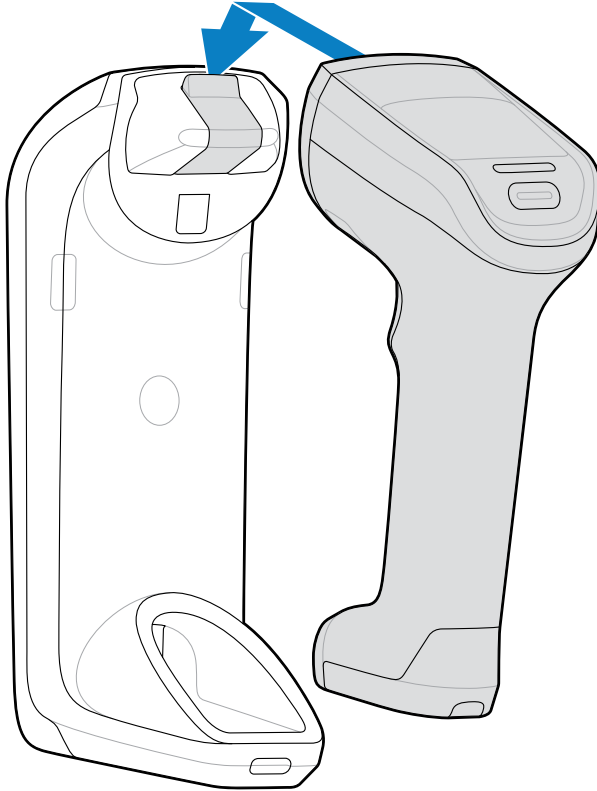
5. Insert the scanner into the cradle.

Inserting the Scanner in the Cradles

Insert the scanner into the cradles to scan and exchange data with a host device.

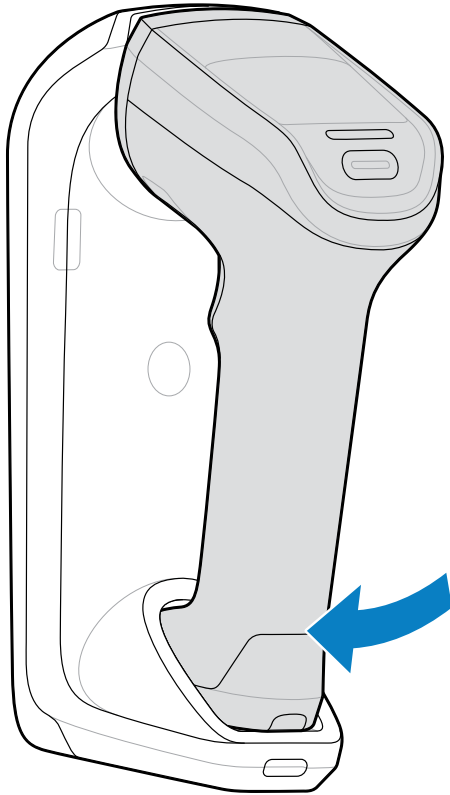
Standard Cradle

1. Insert the top of the scanner into the cradle.



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2. Press the handle towards the cradle until the bottom of the cradle is secure in the charging pad.



Presentation Cradle

3. Insert the scanner straight down into the cradle.
4. Rotate the scanner forward to engage the bottom of the scanner with the charging pad.

Data Transmission to the Host Computer

The cradle receives data from the digital scanner via a wireless radio connection and transmits it to the host computer via the host cable. The digital scanner and cradle must be paired for successful wireless communication.

Pairing

Pairing registers a scanner to the cradle so that the scanner and cradle can exchange information.

The CR8178-SC and CR8178-PC operate in two modes: Point-to-Point and Multipoint-to-Point. In Point-to-Point mode, pair the digital scanner to the cradle either by inserting it in the cradle (if pair on contacts is enabled) or by scanning the pairing barcode.

In Multipoint-to-Point mode, you can pair up to seven scanners to one cradle. To use this feature, scan the multipoint barcode in [Modes of Operation](#) when the digital scanner is connected to the cradle.

To pair the digital scanner with the cradle, insert the scanner in the cradle or scan the pairing barcode. (Pairing on insertion into the cradle is enabled by default.)



NOTE: The pairing bar code that connects the digital scanner to a cradle is unique to each cradle. Do not scan data or parameters until pairing completes.

Reconnecting to the Host

Reestablish a connection with the host computer by disconnecting and reconnecting the cradle.

1. Disconnect the power supply from the cradle.
2. Disconnect the host interface cable from the cradle.
3. Wait 3 seconds.
4. Reconnect the host interface cable to the cradle.
5. Reconnect the power supply to the cradle.
6. Reestablish pairing with the cradle by inserting the scanner in the cradle or scanning the pairing barcode.

Pairing on insertion into the cradle is enabled by default.

Charging the Battery/PowerCap

Charge a new PowerPrecision+ battery before using the scanner.

The PowerCap ships fully charged. The PowerCap is sent in Ship Mode and does not power the scanner. Dock the PowerCap in a cradle to disable Ship Mode.

1. Insert the battery/power cap into the scanner.
2. Place the scanner into a cradle.

The battery/power cap begins pre-charging when the cradle LED turns amber. The scanner boots and the cradle LED flashes amber to indicate the start of normal charging.



NOTE:

- If the battery/power cap is significantly discharged it may take several minutes for the scanner to boot. During this time the cradle LED remains solid amber, and the scanner may not show activity. This is normal recovery behavior.

Once the scanner is active, charge time depends on the host type and power source.

- The advanced charging system in the CR8178-XX cradles operate the scanner and charge the battery/power cap with as much power as allowed by the host or power supply. Charge times lengthen as scanning activity increases when a operates in presentation mode on a CR8178-PC cradle. To optimize charge performance, ensure the scanner is oriented to minimize accidental scan activation.
- PowerCap requires firmware version CACXS00-004-R00 or later.



IMPORTANT: While attached to very power-limited hosts, such as a standard USB port, the scanner may slowly discharge the battery/power cap during active scanning. In most cases, this is not a problem since the battery/power cap charges during breaks in activity. If activation time cannot be reduced, and discharging becomes a problem, it is recommended to attach to a BC1.2 compliant USB port, or use a Zebra USB cable that supports an external power supply.



CAUTION: The battery/power cap does not charge when the temperature is above 40°C (104°F). Ideally, charge the battery in temperatures between 5 and 35°C (41–95°F).

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Connecting to a Host

Connect the cradle to a host device. This enables the to share scan data and configuration information with the host.

1. Connect the host to the cradle.

no supported

Go to the host type section (USB, RS-232, Keyboard Wedge, or IBM) for a diagram illustrating the connection.

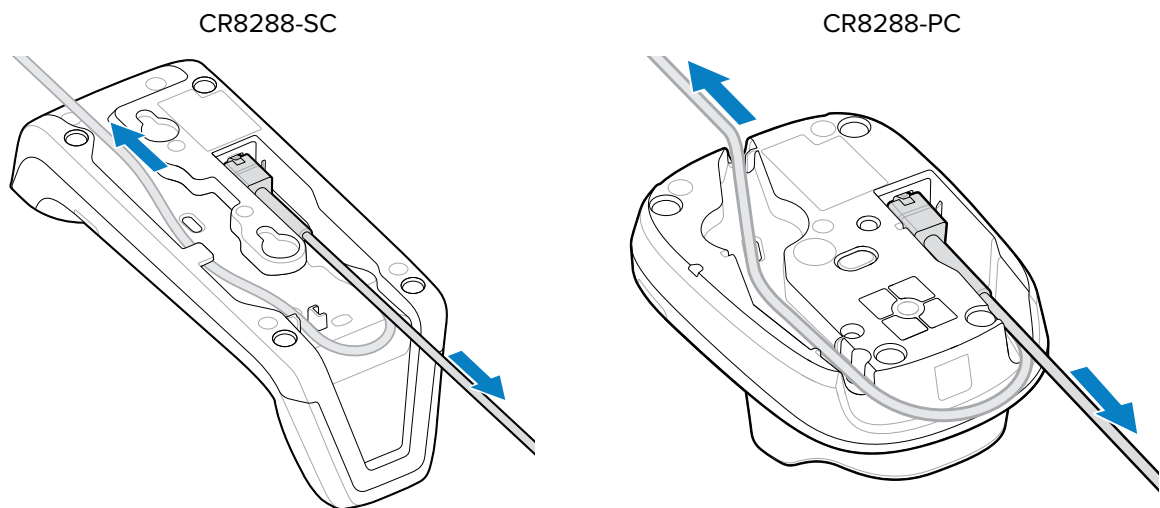
2. Pair the scanner by inserting it into the cradle. The scanner indicates a successful pairing with a low/high beep.
3. Ensure the cradle detects the correct host type.
 - If the cable automatically detects the correct host type, the scanner is ready for use.
 - If the cable fails to detect the correct host type, scan the relevant barcode in the host type section.

Connecting to the Host Interface

To connect to a host interface:

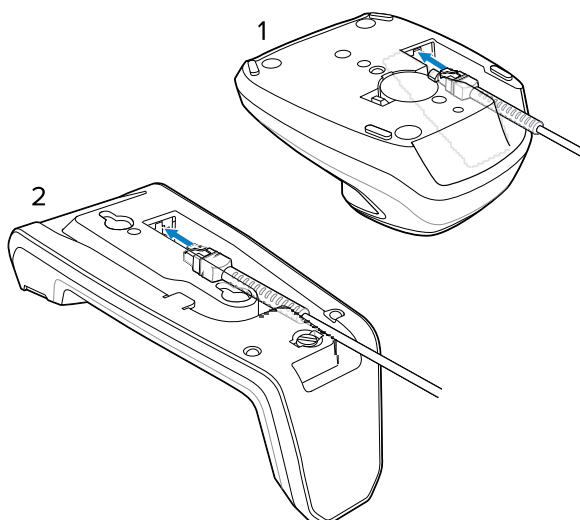
Cradle Cable Connection

Insert the cable with the cable's locking tab facing you. The uses the CR8178-PC and CR8178-SC cradles. Use a USB or USB-C cable to connect the cradle to a power source such as a computer or outlet.



NOTE: When both a USB-C and USB cables are connected to the cradle, the USB-C cable defaults to only providing power, and the USB cable provides communication functionality.

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Figure 6 1. CR8178-PC 2. CR8178-SC

Cradle LED Indications

This table describes the CR8178-PC and CR8178-SC status LED indications.

Table 5 Cradle LED Indications

LED	Indication
Standard Use	
Green (stays on)	Power Up
Radio Indications	
Green (off, then on)	Bluetooth connection established
Blue	Page button
Blue (fast/fast/slow)	Page issued
Charging Indications	
Amber (stays on)	Pre-charging
Amber blinking	Charging
Green (stays on)	Fully charged
Amber fast blinking	Charging error. See Troubleshooting for more information.
Red blinking	The battery is charging, but it is at end of life. Replace it with a new battery.
Red fast blinking	The cradle is either not providing current to the scanner, or the scanner is consuming more current than the cradle can supply (see Troubleshooting for more information)
Virtual Tether Alarm	

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Table 5 Cradle LED Indications (Continued)

LED	Indication
Fast blinking alternating green and red	The scanner disconnects over Bluetooth from the cradle (Virtual Tether Alarm enabled)
Maintenance Indications	
Red (stays on)	Enable boot loader
Red blinking	Firmware installation

Table 6 Host-Controlled Cradle LED Indications

LED	Indication
123Scan	
Green (slow blinking)	Scanner connected to 123Scan
Red (fast blinking)	File being transferred to the scanner (parameters and firmware)
Red (slow blinking)	Firmware activated on the scanner, loaded into memory
Green	Programming complete (parameters and firmware)
Red	Error state
SMS	
Red blinking (both scanner and cradle)	Loading the SMS package to scanner

Troubleshooting

If the cradle does not work after following the previous procedures, try the troubleshooting steps outlined in this section.

- Check the system power.
- Check for loose cable connections.
- Check that the digital scanner is inserted properly in the cradle.
- Check that the host settings are correct and the cradle is connected to the appropriate port on the host.
- If water spills on the contacts area, the unit might not function properly. Turn the power off and tilt the cradle to drain as much liquid as possible. Do not shake the cradle. Use a paper towel to dry the outside surfaces, and expose the unit to room conditions for up to 24 hours to allow liquid to dry around the contacts

