

RFID STANDARD SLED

RFD40

Product Reference Guide

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About This Guide

Provides configuration information for the RFD40 RFID Standard Sled.

The table below describes the configuration of the RFD40 RFID Standard Sled.

RFD40 RFID Standard Sled Configurations

SKU	Description
RFD4030-G00B700-XX	RFD40, Standard, Standard Range Circular Polarized Antenna, UHF RFID Only, Gun, No Imager, 7000mAh Battery, Midnight Black

Service Information

Provides support contact guidance for service issues.

If you have a problem using the equipment, contact your facility's technical or systems support. If there is a problem with the equipment, they will contact the Zebra Global Customer Support Center at zebra.com/support.

When contacting Zebra support, have the following information available:

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

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

If your problem cannot be solved by Zebra 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 business product from a Zebra business partner, contact that business partner for support.



NOTE: In the SKU, XX indicates the country code for a specific country.

Getting Started

Introduces RFD40 RFID Standard Sled parts, battery installation, mobile device attachment, LED indications, and charging.

This chapter provides information on RFD40 RFID Standard Sled parts, battery installation, mobile device attachment, LED indications, and charging.

Unpacking

Unpack the RFD40 RFID Standard Sled and verify the package contents.

Carefully remove all protective material from the RFD40 RFID Standard Sled and save the shipping container for later storage and shipping.

1. Verify that the following items are in the box.
 - RFD40 RFID Standard Sled
 - Battery
 - Lanyard
 - Quick Start Guide
2. Inspect the equipment for damage.
3. If any equipment is missing or damaged, contact the Zebra Support Center immediately.

For a full list of accessories that can be used with the RFD40 RFID Standard Sled, refer to the product-specific Technical Accessory Guide available at zebra.com/support.

Setting up the RFD40 RFID Standard Sled

Set up the RFD40 RFID Standard Sled for first use with a mobile computer.

The RFD40 UHF RFID Standard Sled provides RAIN Radio Frequency Identification (RFID) tag reading, writing, and locating capability to supported Zebra mobile computers.

1. Insert the battery into the sled.
2. Charge the sled in the charging cradle, charging cup, or by USB-C cable.
3. Replace the standard cover that comes with the sled with the adaptor that is specific to the mobile computer being used with the sled.
4. Place the mobile computer into the adaptor headfirst.

5. Attach the mobile computer on the sled.
6. Set the region using 123RFID Desktop or 123RFID Mobile. For more information, visit zebra.com/123RFID.

For the latest versions of guides and software, go to zebra.com/support.

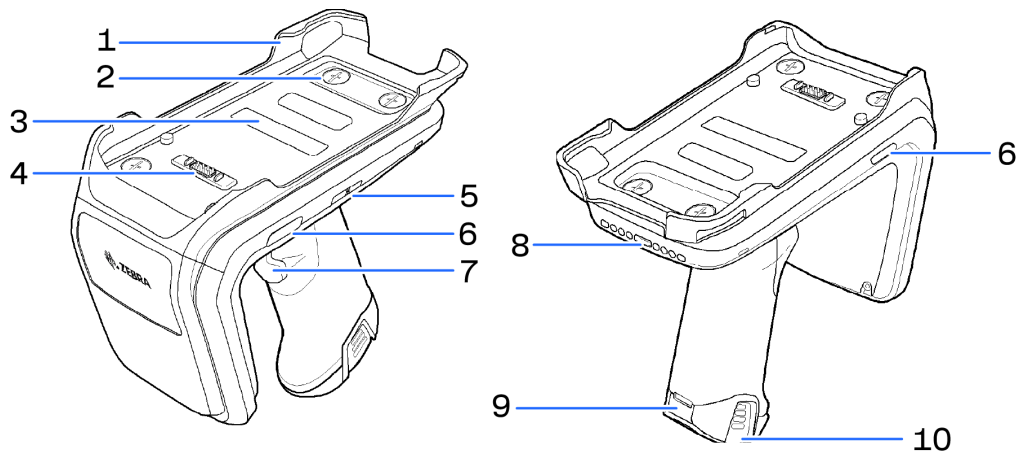
For detailed information, refer to the Product Reference Guide at zebra.com/support.

Features

Describes the RFD40 RFID Standard Sled features.

The RFD40 RFID Standard Sled adds an RFID gun-style handle with a scanning trigger to the mobile computer or Windows PC. Used for all RFID operations, the sled increases comfort when using the mobile computer in scan-intensive applications for extended periods of time.

Figure 1 RFD40 RFID Standard Sled Features



Callout	Feature
1	Adaptor (Sold Separately)
2	Coin Screws (4)
3	Adaptor Label
4	eConnex™ Communication Port
5	Battery Status LED
6	Decode LED
7	Tri-Function Trigger
8	Charging Contact and USB-C Port
9	Tethering Point for Handstrap
10	Rubber Foot

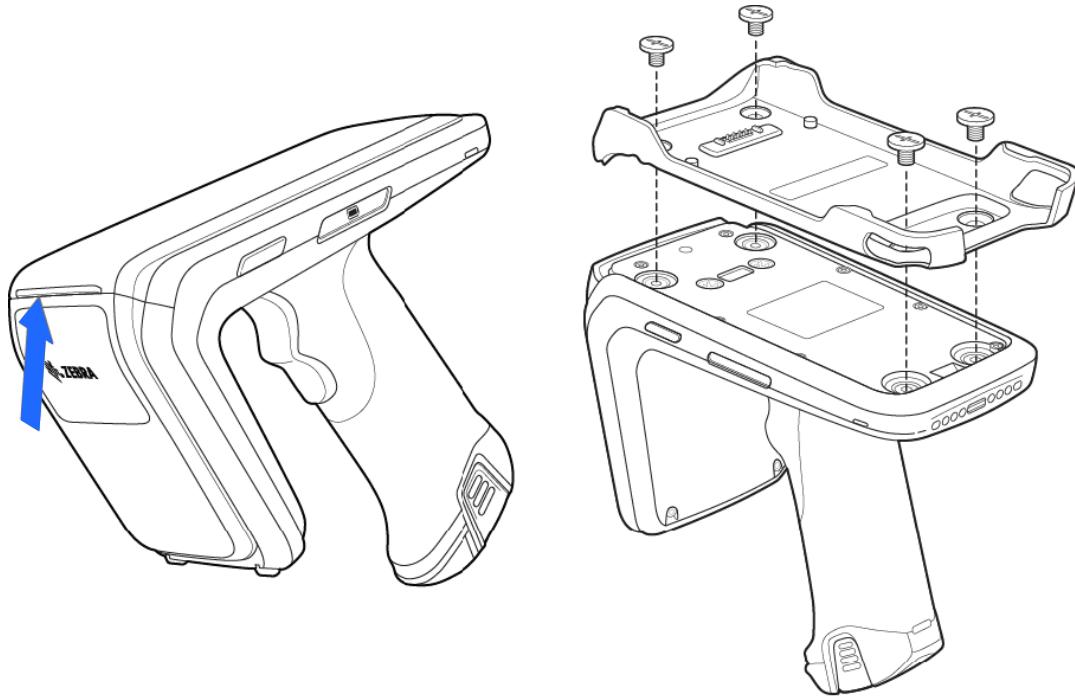
Adaptor Installation

Install the adaptor on the RFD40 RFID Standard Sled.

Install the adaptor before attaching a compatible mobile computer to the sled.

1. Remove the cover by pulling up on the lip.

Figure 2 Adapter Installation

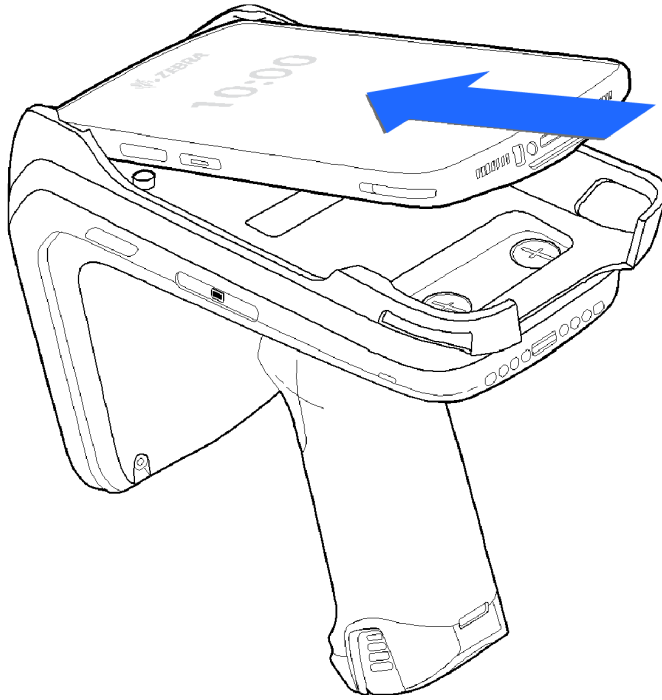


2. Secure the adaptor onto the sled by fastening the four coin screws into the sled.

Installing the Mobile Computer into the Sled

Install the mobile computer into the RFD40 Standard RFID Sled.

1. Place the top of the device fully forward into the sled adaptor.



2. Push down on the bottom of the mobile computer.



NOTE: Depending on the mobile computer being used with the sled, the mobile computer may be inserted into the adaptor tail-end first.

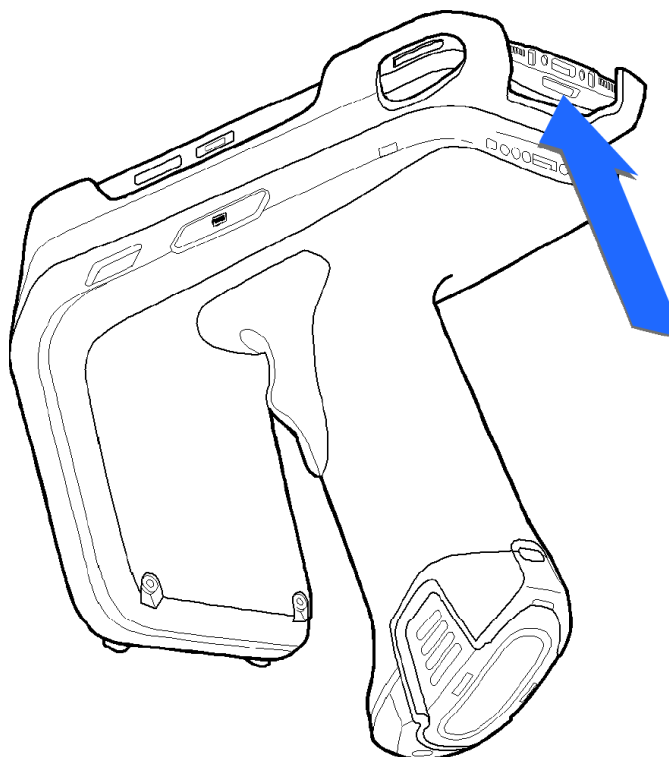


NOTE: While installing the mobile computer into the adaptor, use caution and do not collide with the eConnex™ communication port pins on the RFD40.

Removing the Mobile Computer from the Sled

Remove the mobile computer from the RFD40 Standard RFID Sled.

1. Firmly hold the sled handle.



2. Lift the device off of the sled base.

Sled Battery Replacement

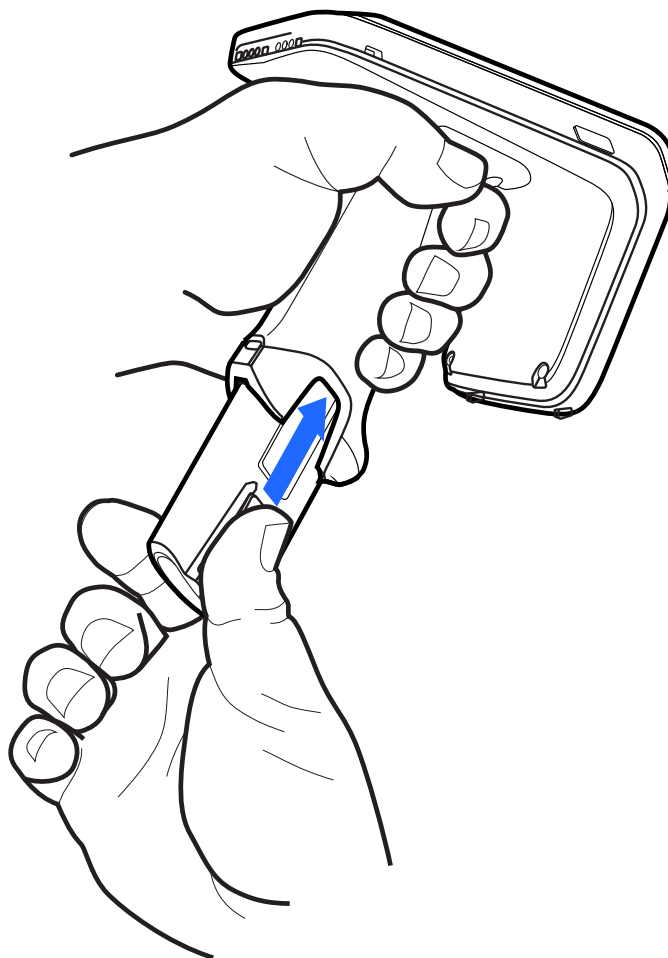
Introduces battery installation and removal for the RFD40 RFID Standard Sled.

The battery replacement topics describe how to install and remove the sled battery.

Battery Installation

Install the battery in the RFD40 RFID Standard Sled.

1. Align the battery with the notch facing the back of the device.
2. Slide the battery into the handle of the device.

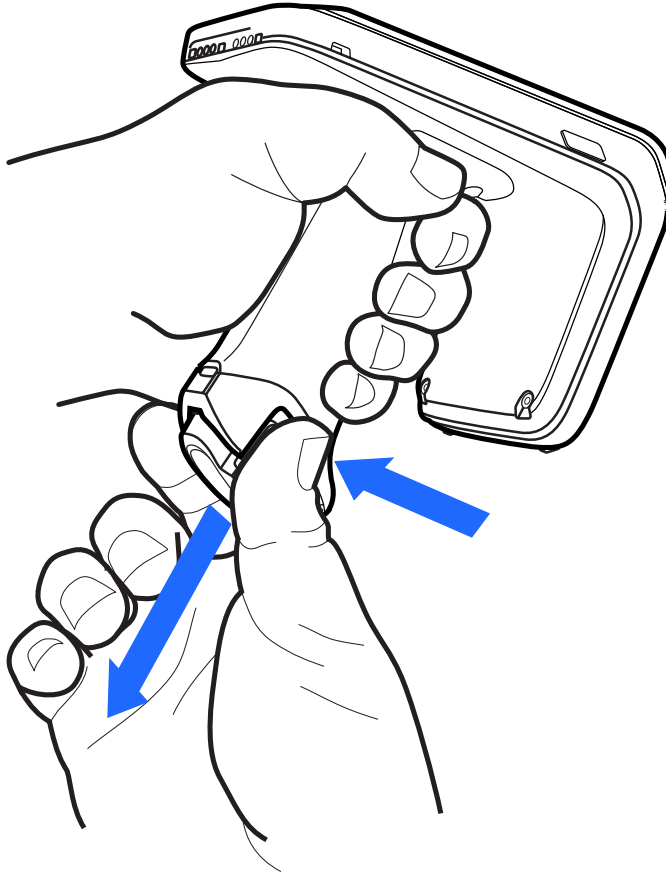


3. Snap the battery into place.

Battery Removal

Remove the battery from the RFD40 RFID Standard Sled.

1. Pinch the clips to unlock the battery.



2. Slide the battery downwards to release it.

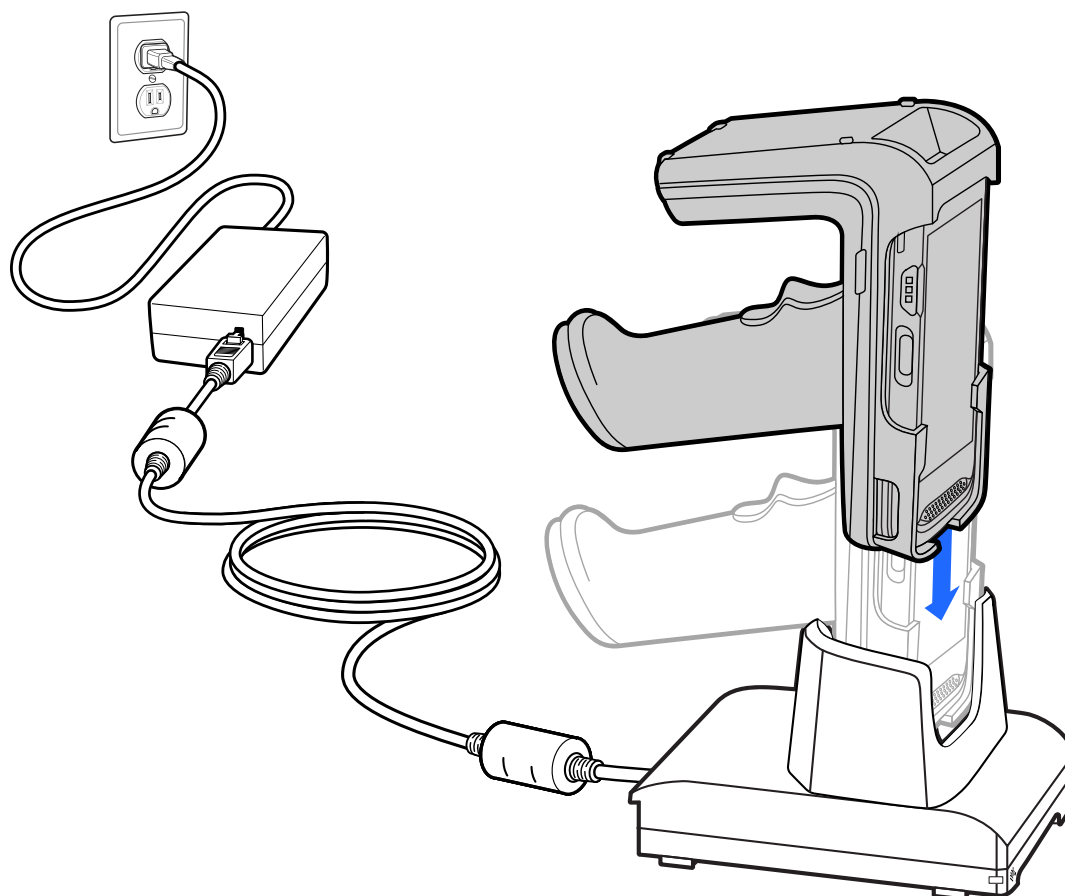
Charging

Describes charging behavior for the RFD40 RFID Standard Sled.

Before using the RFD40 for the first time, fully charge the battery by placing it in the charging cradle until the LED Power/Charging Indicator turns solid green. The RFD40 RFID Sled and mobile computer may be charged in the charging cradle individually or attached together.

When an RFD40 RFID Sled is removed from a charging cradle, it is automatically powered on. If a reader is not used for a duration of 30 minutes, the reader enters low power mode.

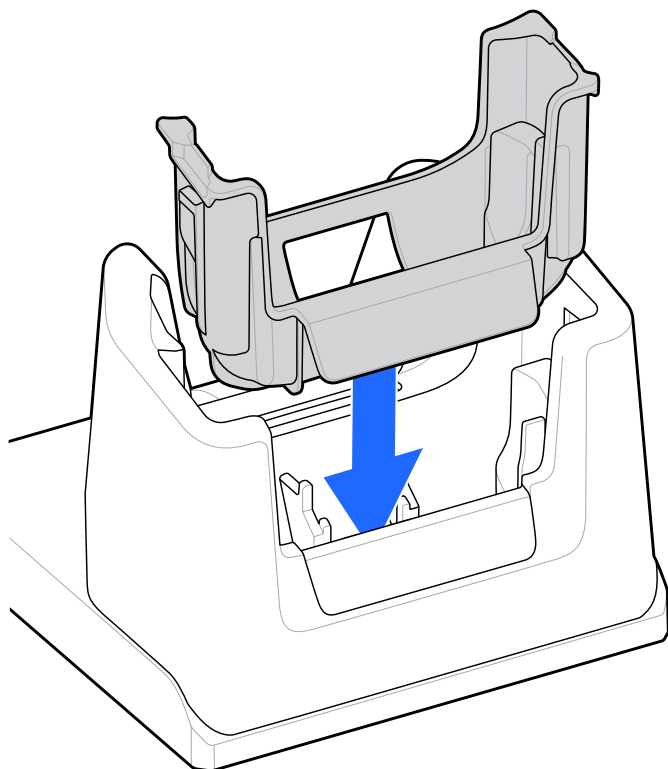
Figure 3 Single Slot Charging Cradle



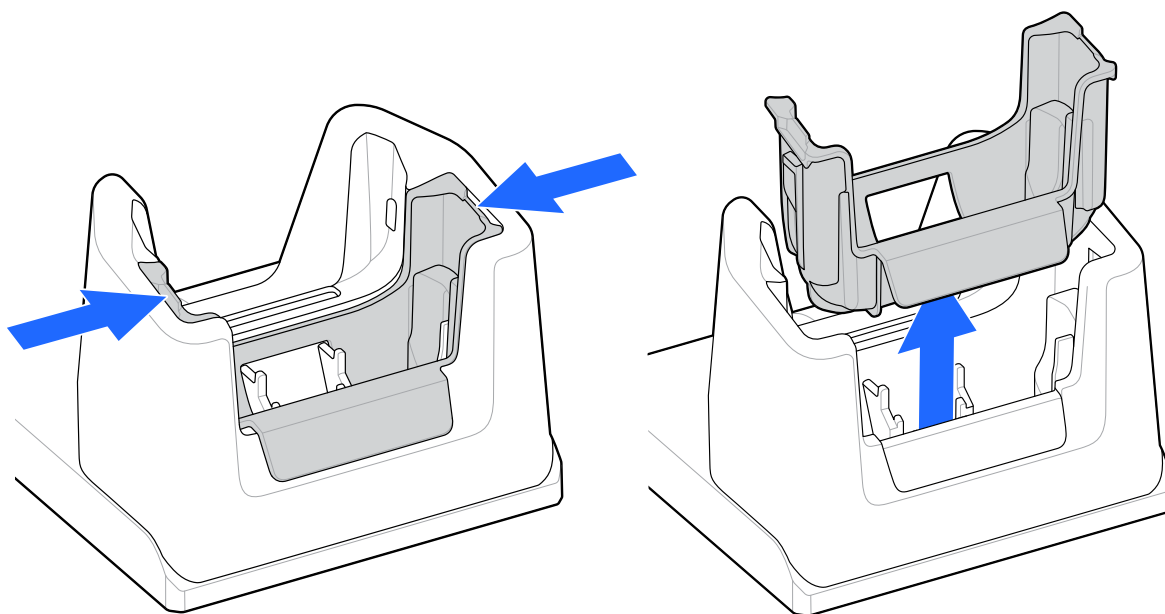
Installing and Removing the Shim

Install a cradle cup shim to allow devices without a rugged boot to charge securely in a cradle, or remove the shim to accommodate devices with a rugged boot.

1. To install the shim, insert the shim straight down into the cradle cup until it clicks in place.



2. To remove the shim, pinch both sides in and pull up.



UI Indicators

Introduces the RFD40 RFID Standard Sled LED, beeper, and trigger indicators.

The RFD40 RFID Standard Sled presents multiple modalities to inform the user of various device states. The sled provides LED definitions for decode and battery status as well as beeper indications to

indicate the charge progress of the battery. The trigger on the sled is capable of carrying out various programmable tasks to decode and initiate a bootloader recovery.

Decode LED Definitions

Defines decode LED indications for the RFD40 RFID Standard Sled.

RFD40 RFID Standard Sled Decode LED Indications

Scan	LED Status
Good Scan	Green
Scan Error	Red
RFID Tag Read Indicator Enabled	Green
Read Error	Red

Battery LED Definitions

Defines battery LED indications while charging.

RFD40 RFID Standard Sled LED Definitions While Charging

Condition	Indication
Pre-charging	Amber (Fast, Fast, Slow)
Charging	Amber (Blinking)
Fully Charged	Green (Stays On)
Charging Error	Amber (Fast Blinking)

Battery Beeper Indications

Defines RFD40 battery beeper indications.

RFD40 RFID Standard Sled RFD40 Battery Beeper Indications

Condition	Tone
Low Battery (20%)	Medium-length tones
Lower Battery (10%)	Short tones - repeat
Suspend	High/Medium/Low
Charging	Short tone when the charger is connected.
Fully Charged	One Beep
Charging Error	Three Beeps (single occurrence)
Power On	Low/Medium/High Beep

Trigger Modes

Defines default trigger functions for the RFD40 RFID Standard Sled.

RFD40 RFID Standard Sled Default Trigger Functions



NOTE: By default, the device assumes the upper trigger as the RFID decode trigger and the lower trigger as the mobile computer decode trigger.

Condition	Upper Trigger	Lower Trigger	Both Triggers	Description
RFID Start/Stop	X	-	-	User Programmable.
Barcode Start/Stop	-	X	-	User Programmable.
Start Bootloader Recovery	-	X	-	Press and hold the lower trigger for five seconds while inserting the battery.
Configurable/Signal Intent to Mobile Device	-	-	X	Feature support is determined by the mobile computer being used with the device.

Troubleshooting

Introduces troubleshooting information for the RFD40 RFID Standard Sled.

Use the troubleshooting reference to identify symptoms, possible causes, and corrective actions for the RFD40 RFID Standard Sled.

Troubleshooting

Provides symptoms, possible causes, and actions for RFD40 RFID Standard Sled issues.

Troubleshooting the RFD40 RFID Standard Sled

Symptom	Possible Cause	Action
The RFID sled does not read tags.	The RF region configuration is not set.	Use the 123RFID Desktop or 123RFID Mobile application to set the regulatory region or country operation per the application instructions.
RFID sled is attached to mobile device and it is not responsive to a RFID application, even after the trigger is pressed.	Battery is too low and not able to power the RFID sled.	Press the trigger for a couple of seconds to power the RFID sled on. The RFID sled LED blinks amber when it is turned on. By default, pressing the trigger turns on the RFID sled if it is in off mode. However, the RFID sled can be disabled in which case this step is not necessary. Place the RFID sled in the charging cradle. The RFID sled blinks amber LEDs indicating charging commenced.
RFID sled is attached to mobile device and it is not responsive to a RFID application, even after the trigger is pressed.	Zebra supported mobile computer is not properly inserted in the RFID sled.	Reinsert the Zebra supported mobile device securely in the RFID sled and ensure that the USB cable is correctly inserted.
RFID sled is attached to mobile device and it is not responsive to a RFID application, even after the trigger is pressed.	Damaged battery.	If the RFD40 RFID sled LED does not blink amber after sitting on charging cradle for a while, request service to replace battery.

Troubleshooting

Symptom	Possible Cause	Action
RFID sled is responsive but cannot read tags.	Battery is critically low.	Place the RFID sled in the charging cradle. The RFID sled LED blinks amber. The RFID sled can be used when its LED turns on momentarily amber or green upon removal from charging cradle.
The RFD40 RFID sled LED blinks fast amber when in the cradle.	Charging error.	Restart charging by removing the RFID sled from the cradle and inserting it back in the cradle. If issue persists, request service to replace battery.
RFID sled LED blinks red, or LED blinks red alternating with green or amber while in use (not while charging).	Battery end of life indication.	Request service to replace battery.
Zebra supported mobile computer battery is not charging.	Charging cradle was unplugged from AC power.	Ensure the charging cradle is receiving power.
Zebra supported mobile computer battery is not charging.	The Zebra supported mobile computer is not fully seated in the cradle.	Remove and re-insert the Zebra supported mobile computer into the cradle, ensuring it is firmly seated in the charging cradle.

Maintenance and Technical Specifications

Provides suggested sled maintenance, troubleshooting, and technical specifications.

This chapter provides suggested sled maintenance, troubleshooting, and technical specifications.

Maintenance

Provides cleaning and maintenance guidance for the RFD40 RFID Standard Sled.

Use the maintenance topics to identify harmful ingredients, approved cleaners, and cleaning procedures for the sled.

Known Harmful Ingredients

Lists chemicals known to damage plastics on Zebra devices.

The following chemicals are known to damage the plastics on Zebra devices and should not come in contact with the device:

- Acetone
- Ammonia solutions
- Aqueous or alcoholic alkaline solutions
- Aromatic and chlorinated hydrocarbons
- Benzene
- Carboic acid
- Compounds of amines or ammonia
- Ethanolamine
- Ethers
- Ketones
- TB-lysoform
- Toluene
- Trichloroethylene.



CAUTION: Always wear eye protection. Read warning label on compressed air and alcohol product before using. If you have to use any other solution for medical reasons, contact Zebra for more information.



WARNING: Avoid exposing this product to contact with hot oil or other flammable liquids. If such exposure occurs, unplug the device and clean the product immediately in accordance with these guidelines.



IMPORTANT: Use pre-moistened wipes and do not allow liquid cleaner to pool.



IMPORTANT: To avoid damage to the device, use only approved cleaning and disinfecting agents. The use of non-approved cleaning or disinfecting agents may void the warranty.

Sodium Hypochlorite Cleaners

Ensure the following items are addressed when using sodium hypochlorite (bleach) based cleaners:

- For device only. Do not use on cradle.
- Always follow the manufacturer's recommended instructions: use gloves during application and remove the residue afterwards with a damp cloth to avoid prolonged skin contact while handling the device.
- Due to the powerful oxidizing nature of sodium hypochlorite, the metal surfaces, including electrical contacts on the device, are prone to oxidation (corrosion) when exposed to this chemical in the liquid form (including wipes) and should be avoided. If these type of disinfectants come in contact with metal on the device, prompt removal with a dampened cloth after the cleaning step is critical.

Approved Cleaners

Lists approved cleaners for the RFD40 RFID Standard Sled.

- Isopropyl alcohol 70% (including wipes)
- 10% Bleach (Sodium Hypochlorite 0.55%) and 90% Water solution
- 3% Hydrogen Peroxide and 97% Water solution
- Mild dish soap.

Cleaning the Sled

Clean the RFD40 RFID Standard Sled using approved cleaning agents.

Routinely cleaning the exit window is required. A dirty window may affect scanning accuracy. Do not allow any abrasive material to touch the window.

1. Dampen a soft cloth with one of the approved cleaning agents or use pre-moistened wipes.
2. Gently wipe all surfaces, including the front, back, sides, top and bottom. Never apply liquid directly to the device. Be careful not to let liquid pool around the device window, trigger, cable connector, or any other area on the device.
3. Clean the trigger and in between the trigger and the housing. Use a cotton-tipped applicator to reach tight or inaccessible areas.
4. Do not spray water or other cleaning liquids directly into the exit window.
5. Wipe the device exit window with a lens tissue or other material suitable for cleaning optical material such as eyeglasses.
6. Immediately dry the device window after cleaning with a soft non-abrasive cloth to prevent streaking.

7. Allow the unit to air dry before use.
8. Clean the connectors.
 - a) Dip the cotton portion of a cotton-tipped applicator in isopropyl alcohol.
 - b) Rub the cotton portion of the cotton-tipped applicator back-and-forth across the connector on the Zebra sled at least three times. Do not leave any cotton residue on the connector.
 - c) Use the cotton-tipped applicator dipped in alcohol to remove any grease and dirt near the connector area.
 - d) Use a dry cotton-tipped applicator and rub the cotton portion of the cotton-tipped applicator back-and-forth across the connectors at least three times. Do not leave any cotton residue on the connectors.

Technical Specifications

Lists technical specifications for the RFD40 RFID Standard Sled.

RFD40 RFID Standard Sled Technical Specifications

Item	Description
Dimensions	Height: 15.6 cm (5.94 in.); Width: 8.4 cm (3.3 in.); Length: 16.6 cm (6.5 in.)
Weight	~19.1 oz./~541 grams (sled with battery)
Power	PowerPrecision+ 7000 mAh Li-Ion battery
Frequency Range/RF Output	US: 902-928 MHz; 0 - 30 dBm (EIRP). EU: 865-868 MHz; 0 - 30 dBm (EIRP). Japan: 916-921 MHz (w LBT); 0 - 30 dBm (EIRP).
Operating Temperature	-10 deg C to 50 deg C (14 deg F to 122 deg F)
Storage Temperature	-40 deg C to 70 deg C (-40 deg F to 158 deg F)
Charging Temperature	0 deg C to 40 deg C (32 deg F to 104 deg F)
Relative Humidity	Operating: 5 to 85% non-condensing
Sealing	IP54
Drop Specification	Multiple 5 ft./1.8 m drops onto concrete
Tumble Specification	500 1/2 meter tumble cycles (1000 drops) at 20 deg C
Electrostatic Discharge (ESD)	+/- 15 kV air discharge; +/- 8 kV direct discharge; +/- 8 kV indirect discharge

