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**Warranty**

For the complete Zebra hardware product warranty statement, go to:

Introduction

The FLB3508/3578 cordless scanner cradle acts as a stand, host communication interface and charger for the LS3578 cordless scanner. It attaches to a mounting bracket using three isolators. The bracket is then mounted on the forklift surface. The FLB3578 cradle receives data from the scanner via a Bluetooth radio, and sends that data to the host through an attached cable. The cradle also charges the scanner's internal battery pack when the scanner is inserted. A portable power supply on the forklift supplies power to the cradle.

This document provides basic instructions on setting up and using the cradle.

CAUTION LS3478 cordless scanners are incompatible with FLB3508/3578 cradles. LS3578 cordless scanners are incompatible with FLB3408/3478 cradles.

Equipment Supplied

The cradle package includes:

- Cradle
- Mounting bracket with isolators
- Three 8-32 x 1.5" Philips head screws (for attaching cradle to mounting bracket).

Accessories

The following equipment may be needed:

- Four 1/4-20 screws, minimum length 1.0" (for fastening bracket to mounting surface).

Save the shipping container for storing or shipping. Inspect all equipment for damage. If anything is damaged or missing, call an authorized Zebra business Support Center immediately.

Related Documentation

This documentation is available at: http://www.zebra.com/support.
The Mounting Bracket
The mounting bracket is used to install the cradle on a forklift. Mount the bracket so that the cradle is within the user’s reach envelope. The recommended reach envelope has a radius of 15" measured from the front of the user's shoulder to the scanner grip.
Three isolators ensure secure attachment with minimized vibration. The bracket has holes that provide access the host and power ports, and enable securing the cables.
with cable ties.

**CAUTION** Ensure the Converter Knob is in the position shown above. If not, rotate the knob counterclockwise to activate latches.
Cradle Connections

**IMPORTANT** Connect the interface cable and power supply (if necessary) in the following order to ensure proper operation of the scanner and cradle.

1. Insert the interface cable from the host computer into the cradle's host port.
2. Connect the forklift power supply to the cradle's power port, if applicable.
3. Optional: Thread the host cable over the cable hook and run the host and power cables into their respective cable grooves, or use cable ties to secure them to the mounting plate after it is attached to the cradle (see *Mounting the Cradle on the Forklift*).
4. Pair the scanner with the cradle by scanning the pairing bar code on the cradle.
5. If necessary, scan the appropriate host bar code (for non-autodetected interfaces). See the *Product Reference Guide*.

**Changing the Host Interface**

To connect to a different host, or to the same host through a different cable:

1. Unplug the power supply from the cradle, if used.
2. Unplug the interface cable from the host.
3. Connect the interface cable to the new host, or the new interface cable to the existing host.
4. Reconnect the power supply, if required.
5. If necessary, scan the appropriate host bar code (for non-autodetected interfaces). Refer to the *Product Reference Guide*.

**CAUTION** If the scanner does not recognize the host, disconnect the power supply, then reconnect after connecting the host cable.
Mounting the Cradle on the Forklift

1. Consult an environmental health and safety manager to determine an appropriate mounting location within the recommended 15" reach envelope.

2. Ensure the converter knob is in the correct position (see Caution in The Mounting Bracket section).

3. Attach the host and power cables to the appropriate ports (see Cradle Connections).

4. Position the cradle with the screw holes in the cradle aligning with the holes in the isolators.

5. Attach the cradle to the bracket using three 8-32 x 1.5" Philips screws through the cradle and isolator holes.

6. Mark the mounting surface through the four screw holes on the mounting bracket, or use the mounting template to determine the location of the screw holes.

7. Pre-drill holes into the mounting surface to accommodate four 1/4-20, minimum 1.0" length, Philips head screws.

8. If desired, thread cable ties through the holes on each side of the bracket and secure the host and power cables along the edges of the bracket.

9. Attach the bracket to the mounting surface.

10. Place the scanner in the cradle.
Inserting the Scanner in the Cradle
To insert the scanner in the cradle, insert the scanner top first. Then, push the handle until it clicks into place, engaging the contacts in the cradle and scanner.

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

Pairing
Pairing registers a scanner to the cradle such that the scanner and cradle can exchange information. The FLB3578 operates in two modes: scanner-to-cradle and multi scanner-to-cradle. In scanner-to-cradle mode, the scanner is paired to the cradle either by insertion into the cradle (if pairing on insertion is enabled), or by scanning the pairing bar code. In multi scanner-to-cradle mode, up to three scanners can be paired to one cradle. A multipoint bar code must be scanned to activate this feature.

The cradle includes a pairing bar code on its front. To pair the scanner with the cradle, scan the pairing bar code. A high-low-high-low beep sequence followed by a low-high beep sequence indicates successful pairing and connection to the remote device. A long low, long high beep sequence indicates unsuccessful pairing. Refer to the Product Reference Guide for more information.

Lost Connection to Host
If scanned data does not transmit to the cradle’s host, ensure that all cables are firmly inserted and the power supply is connected to an appropriate AC outlet, if applicable. If scanned data still does not transmit to the host, reestablish a connection with the host:
1. Disconnect the power supply from the cradle.
2. Disconnect the host interface cable from the cradle.
3. Wait three seconds.
4. Reconnect the host interface cable to the cradle.
5. Reconnect the power supply to the cradle, if required.
6. Reestablish pairing with the cradle by scanning the pairing bar code.

✓ NOTE The FLB3578 does not always require a power supply, depending on the host interface.

Charging the Scanner Battery in the Cradle
To charge the scanner battery, place the scanner in the cradle (see Inserting the Scanner in the Cradle). The battery begins charging when the scanner LED indicator starts flashing green. A complete charge of a fully discharged battery can take up to four hours using external power and up to 10 hours using the interface cable.
Scanner LED Indicators
The green LED on the scanner indicates charging activity (see the table below). If the scanner is charging in fast mode (non-bus powered mode), the green LED blinks at a fast rate. If the scanner is charging in slow mode (bus-powered mode), the LED blinks at a slow rate. If the red LED on the scanner begins flashing, indicating a charging problem, remove the scanner from the cradle and replace the battery. If the red LED continues flashing, contact a Zebra business Support Center.

<table>
<thead>
<tr>
<th>Standard Scanner Use LED Sequences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
</tr>
<tr>
<td>Green</td>
</tr>
<tr>
<td>Red</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Charging Use LED Sequences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green Slow Flash</td>
</tr>
<tr>
<td>Green Fast Flash</td>
</tr>
<tr>
<td>Red and Green Flash</td>
</tr>
</tbody>
</table>

Using a Host Interface to Supply Power
Some hosts can provide power to the cradle via the host interface, instead of an external power supply.

Troubleshooting
If the cradle does not work after following the previous procedures:
• Check the system power.
• Check for loose cable connections.
• Check that the 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.

⚠️ CAUTION  Do not pour, spray, or spill any liquid on the cradle.

Mounting Template
Refer to the English version of this guide (p/n 72-94604-xx ) for a mounting template.
Health and Safety Recommendations

Ergonomic Recommendations

Caution: In order to avoid or minimize the potential risk of ergonomic injury follow the recommendations below. Consult with your local Health & Safety Manager to ensure that you are adhering to your company's safety programs to prevent employee injury.

• Reduce or eliminate repetitive motion
• Maintain a natural position
• Reduce or eliminate excessive force
• Keep objects that are used frequently within easy reach
• Perform tasks at correct heights
• Reduce or eliminate vibration
• Reduce or eliminate direct pressure
• Provide adjustable workstations
• Provide adequate clearance
• Provide a suitable working environment
• Improve work procedures.

This document contains health and safety recommendations for the Zebra CR3508/3578 Cradle.

Zebra CR3508/3578 Cradle

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Waste Electrical and Electronic Equipment (WEEE)


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Service Information

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 Support at: http://www.zebra.com/support.

For the latest version of this guide go to: http://www.zebra.com/support.