Cradle Lock
CS-CRD-LOC-TC2/5/7

Installation Guide
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Introduction

The guide provides information for installers and users of the Cradle Lock designed for use with selected models from the TCx range of handheld devices.

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

Chapter Descriptions

Topics covered in this guide are as follows:

- **Getting Started** provides a list of required parts and tools for installation, safety warnings, and product features and dimensions.
- **Installation** provides information on installing the Cradle Lock.
- **Maintenance & Technical Specifications** provides information on cleaning the Cradle Lock and technical specifications.

Notational Conventions

The following conventions are used in this document:

- Bullets (•) indicate:
  - Action items
  - Lists of alternatives
  - Lists of required steps that are not necessarily sequential.
- Sequential lists (such as those that describe step-by-step procedures) appear as numbered lists.

Icon Conventions

The documentation set is designed to give the reader more visual clues. The following graphic icons are used throughout the documentation set. These icons and their associated meanings are described below.

**NOTE**: The text here indicates information that is supplemental for the user to know and that is not required to complete a task.
IMPORTANT: The text here indicates information that is important for the user to know.

WARNING: Warning text goes here. If danger is not avoided, the user CAN be seriously injured or killed. Confirm with your Compliance Engineer before using this.

Related Documents and Software

The following documents provide more information about Intelligent Cabinets:

- Racks 1 & 2 Shipping and Unpacking Quick Reference Guide
- Zebra Cabinet Site Installation Guide
- Zebra Cabinet Assembly Instructions
- Zebra Access Management System User Guide
- Zebra Access Management Installation Guide
- Zebra Access Management System Cabinet and Mobile Device Quick Reference Guide

For the latest version of this guide and all guides, go to zebra.com/support.
Getting Started

Introduction

The Zebra range of Cradle Locks is designed to work with the TC2x, TC5x and TC7x range of Mobile Devices and SharedCradles with the exception of the TC7x Ethernet SharedCradle. The model of Cradle Lock chosen only works for the range of Mobile Devices for which it has been designed and should not be used for any other device. Each size of the Cradle Lock is available in either a 5 slot or 4 slot version so that the Battery Charger version of the SharedCradle may be accommodated. The Cradle Lock is a low power device and can be powered from the same PSU (Power Supply Unit) that is used to power the SharedCradle. A suitable cable to split the power is provided with each Cradle Lock.

Parts List

Before proceeding, verify that your box contains the following items:

- Cradle lock
  Qty: 1

- Cable cover
  Qty: 1

- DC power splitter cable
  Qty: 1

- Pan head screws M5x12, Torx T25
  Qty: 2

- Manual unlock key
  Qty: 1

- Operating instructions
  Qty: 1

Tool Required

- T25 Torx Driver
Warning and Safety

**WARNING:**

- This product is a SELV (Safety Extra Low Voltage) device.
- DO NOT install Cradle Lock outdoors or in locations it could get wet.
- DO NOT install Cradle Lock in areas of high vibration.
- DO NOT operate Cradle Lock if it is damaged.
- DO ensure fingers and other objects are clear of the Cradle Lock when it is closing.
- DO unplug the Cradle Lock from the power supply before routine cleaning.
- The Cradle Lock is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they are under supervision or instruction.
- This equipment is not suitable for use in locations where children are likely to be present.
- The Cradle Lock must only be powered by an approved Zebra Power Supply.
Parts and Dimensions

Figure 1  Top View

512.5 mm (20.17 in.)

495 mm (19.48 in.)

Figure 2  Front View

Release Position

Lock Position

Idle Position

280.7 mm (11.05 in.)

230.7 mm (9.08 in.)

50 mm (1.96 in.)

220.7 mm (8.68 in.)
**Figure 3**  Bottom View

- Mounting Position
- Mounting Point
- Power Cable Entry Point
- Ethernet Cable Entry Point

118.5 mm (4.66 in.)
Pre-Install Check

Remove any transit material from the Cradle Lock before use. Every effort is made to package the Cradle Lock securely. Before assembling, ensure that there is no visible damage to the product.

Cradle Lock Installation

Fixing SharedCradle in Place

The DC splitter cable is connected to the Cradle Lock with the cable cover in place.

NOTE: It is easy to connect the cable to the SharedCradle after the SharedCradle has been fixed to the Cradle Lock. If you have difficulty, then the cable can be disconnected from the Cradle Lock and plugged into the SharedCradle prior to fastening the SharedCradle to the Cradle Lock.

Fix the SharedCradle in place as follows:

1. If an Ethernet cable must be connected to the SharedCradle, then feed it through the rear of the Cradle Lock now or after it is assembled.

Figure 4 Connecting Cradle Lock and ShareCradle
2. Slide the SharedCradle (2) into the Cradle Lock (1).

**NOTE:** Ensure the DC splitter cable is kept outside of the Cradle Lock while the ShareCradle is slid into position.

**Figure 5** Cradle Lock Holes for ShareCradle Rubber Feet

The two large holes (3) and two large slots (4) in the base of the Cradle Lock are there to accept the four rubber feet of the SharedCradle when place together.

**Figure 6**

3. Fix the SharedCradle in position using two M5 x 12 Pan head screws (5).
4. Plug the four-way connector on the end of the DC splitter cable into the bottom of the SharedCradle.

**NOTE:** If this is difficult, then the cable cover may be removed, and the DC cable disconnected from the Cradle Lock. This allows the DC to be plugged into the SharedCradle before fixing the SharedCradle to the Cradle Lock.
Checking Cable Connections

If necessary, the Cable Lock connectors may be checked by removing the cable cover.

To remove the cable cover:

1. Remove the two M5 x12 Pan head screws.

**Figure 7** Remove Cable Cover

2. Remove the cable cover (2) to expose the Cradle Lock cabling.

Replacing Cable Cover

To replace the cable cover (see Figure 7):

1. Place the cable cover (2) back into position; align the holes in the cable cover with the thread stand-offs (3) and lower.

2. Fasten the cable cover in place using two M5 x 12 screws (1).

Connecting the PSU

Once the SharedCradle is attached to the Cradle Lock and the DC Splitter lead is connected, the DC lead from the PSU (Power Supply Unit) can be connected to the short lead protruding from the rear of the Cradle Lock (see Figure 2).
Shelf Mounting

If the Cradle Lock is used in a Zebra Intelligent cabinet, place the Cradle Lock on one of the shelves with the PSU situated behind it. The two fixing holes in the base of the Cradle Lock line up with the two holes in shelf. Use two of the thumb screws provided with the cabinet to fix the Cradle Lock in position. Refer to the Zebra Intelligent Cabinet Assembly Guide at zebra.com/support.

Using the Cradle Lock

Locking Devices

To use the Cradle Lock:

1. Position the mobile device so that the display is facing you and the charging contacts are facing down (the same way you would position a device before inserting it into a charging SharedCradle).

2. Tilt the device slightly backward and move it underneath one of the locking clamps, and at the same time lift the clamp up. The locking mechanism only engages if there is a device present in the SharedCradle.

3. Align the mobile device with the charging SharedCradle and lower it into position. Once the device has come to rest, a low click sounds which indicates the lock engaging. The mobile device is now locked in position in the SharedCradle.

Figure 8  Cradle Lock
Unlocking Devices

The unlocking method is determined by the version of ZAMS or other software running on the mobile device.

The standard method of unlocking a device is to enter your pin code onto the device display. If the pin code is accepted, the cradle lock releases after a few seconds. A low click sounds as the lock disengages. Lift the device vertically out of the cradle lock and allow the lock to drop back down to its home position.

For more information, see Related Documents and Software on page 3.
Maintenance and Cleaning

Cleaning Procedure

• For regular cleaning, use a dry or damp microfiber cloth.
• Do not use harsh chemical cleaning agents.
• Use an air duster to remove dust and debris from the sensors and mechanism.

Daily
Visually check for foreign bodies in locking cap or sliders. Keep device screens clean with recommended Zebra cleaning products and methods.

Weekly
Unlock the mechanism, remove devices, and extend sliders fully. Use an air duster to remove dust and particles. Wipe the locking cap and outer sliders to remove dust build-up.

Monthly
Unlock the mechanism, remove devices, and use air duster to remove dust and particles from the underside of the locking cap and sensors.
## Specifications

### Table 4  Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model Number</td>
<td>CS-CRD-LOC-TC2, TC5, TC7</td>
</tr>
<tr>
<td>Capacity</td>
<td>Minimum 1 device; Maximum 5 devices</td>
</tr>
<tr>
<td>Power Input Rating</td>
<td>12V DC</td>
</tr>
<tr>
<td>Maximum Power</td>
<td>&lt; 1 Watt</td>
</tr>
<tr>
<td>Standby Power</td>
<td>&lt;0.1 Watts</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-10°C to 40°C (14°F to 104°F)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40°C to 70°C (-40°F to 158°F)</td>
</tr>
<tr>
<td>Humidity</td>
<td>5% to 95% non-condensing</td>
</tr>
<tr>
<td>Sealing</td>
<td>IP20</td>
</tr>
<tr>
<td>Size (Width x Depth x Height)</td>
<td>512 mm x 118.5 mm x 230.7 mm (280.7 mm with clamp fully raised) 20.15 in. x 4.66 in. x 9.08 in. (11.05 in. with clamp fully raised)</td>
</tr>
<tr>
<td>Weight</td>
<td>5 kg</td>
</tr>
</tbody>
</table>