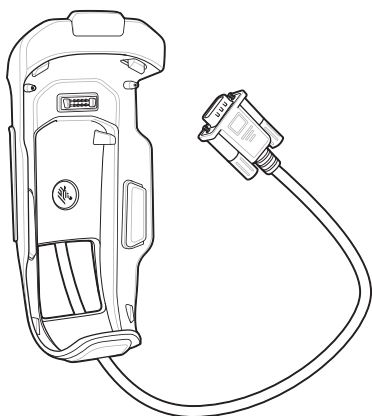




TC7X



Vehicle Cradle

Installation Guide

Zebra reserves the right to make changes to any product to improve reliability, function, or design.

Zebra does not assume any product liability arising out of, or in connection with, the application or use of any product, circuit, or application described herein.

No license is granted, either expressly or by implication, estoppel, or otherwise under any patent right or patent, covering or relating to any combination, system, apparatus, machine, material, method, or process in which Zebra products might be used. An implied license exists only for equipment, circuits, and subsystems contained in Zebra products.

Warranty

For the complete Zebra hardware product warranty statement, go to: <http://www.zebra.com/warranty>.

Introduction

This guide describes how to install and use a CRD-TC7X-DCVH-01 Vehicle Cradle with a TC75 touch computer.

Install the cradle into a vehicle. Once installed, the cradle:

- holds the TC75 securely in place
- provides power for operating the TC75 when connected to the optional USB I/O Hub.

Requirements

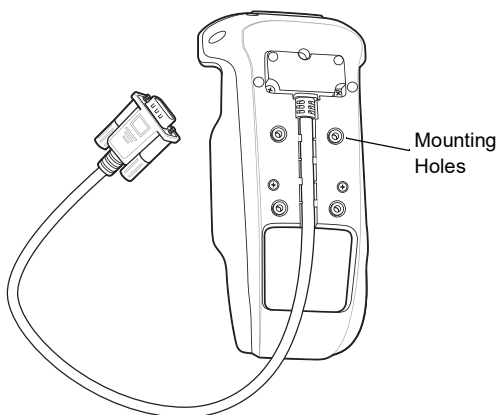
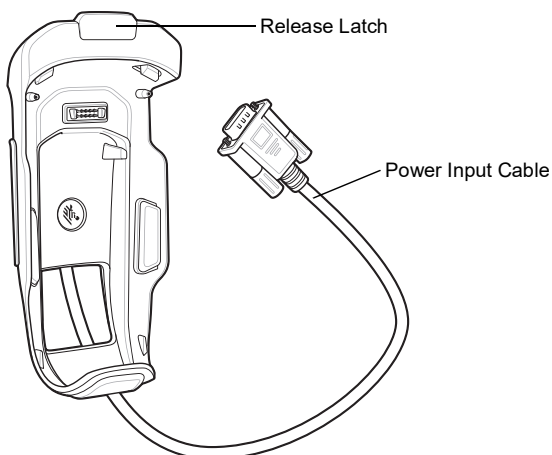
For mounting on a flat surface:

- four M3 screws, flat washers and four nuts (included)
- four wall anchors (not included).

For mounting onto a RAM Mount[®]:

- RAM Mount (sold separately)
- Two M4 screws, lock washers and flat washers (included).

Parts





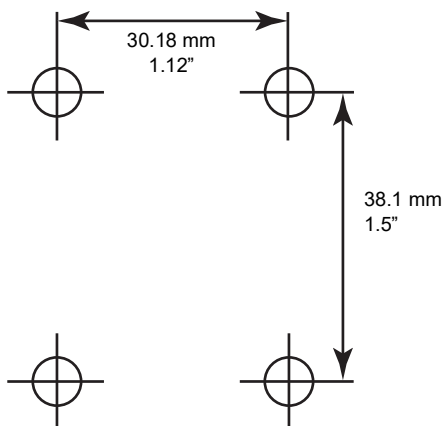
CAUTION ROAD SAFETY - Do not use the TC75 while driving. Park the vehicle first. Always ensure the TC75 is fully inserted into the cradle. Do not place it on the seat or where it can break loose in a collision or sudden stop. Lack of proper insertion may result in property damage or personal injury. Zebra is not responsible for any loss resulting from the use of the products while driving. Remember: Safety comes first.

Mounting the Cradle to a Flat Surface

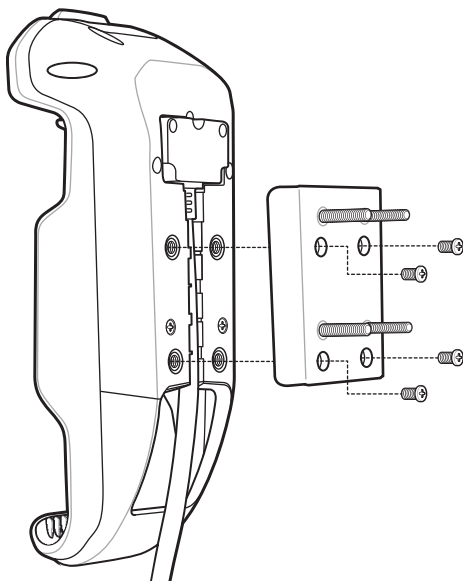


CAUTION Only mount the Vehicle Cradle in a vertical position. Never mount the vehicle cradle on the side or upside down or on a wall that can be subject to impact or collision of greater than 10Gs, in accordance with SAE J1455 Section 4.10.3.5.

1. Select a mounting location for the cradle. It should be flat, and must provide adequate support for the cradle.
2. Prepare the mounting surface, using the mounting template below, with wall anchors that support the weight of the cradle and device. The anchors should accept four M3 screws.



3. Align the mounting holes on the mounting plate with the holes on the vehicle cradle.

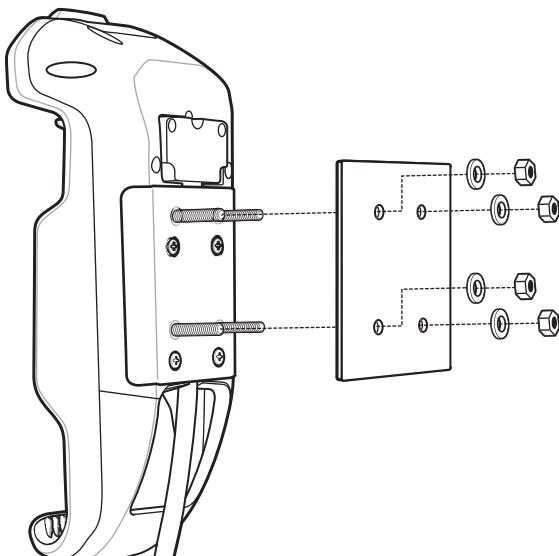


4. Fasten the mounting plate using four M3 screws (provided).



CAUTION Do not install a Vehicle Cradle on or near an air bag cover plate or within an aerobic zone. Also, do not install it in a location that affects vehicle safety or driveability.

5. Align the mounting plate screws with the screw holes in the surface.



6. Tighten the screw to secure the cradle to the mounting plate.

Mounting the Cradle to a RAM Mount

To mount the cradle onto a RAM Mount:

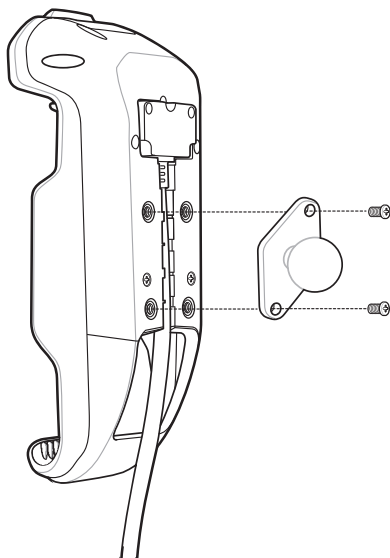


CAUTION Only mount the Vehicle Cradle in a vertical position. Never mount the vehicle cradle on the side or upside down or on a wall that can be subject to impact or collision of greater than 10Gs, in accordance with SAE J1455 Section 4.10.3.5.

1. Follow the instructions that are provided with the RAM Mount for RAM Mount mounting instructions.
2. Align the vehicle cradle with the RAM Mount ball base.
3. Secure the vehicle cradle to the ball base using M4 screws, lock washers and flat washers (provided).



CAUTION Do not install a Vehicle Cradle on or near an air bag cover plate or within an aerobic zone. Also, do not install it in a location that affects vehicle safety or driveability.

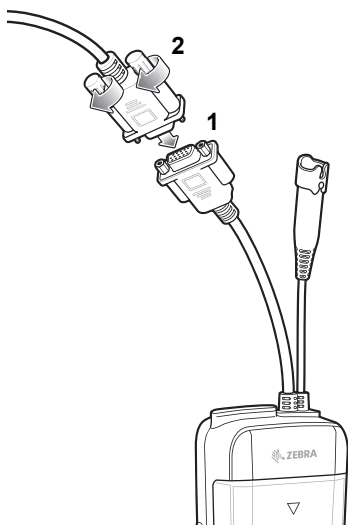


4. Secure the RAM Mount to the vehicle depending upon the type of RAM Mount. See instructions provided with RAM Mount.
5. Tighten the screw to secure the cradle to the mounting plate.
6. Adjust RAM Mount according to RAM Mount instructions.

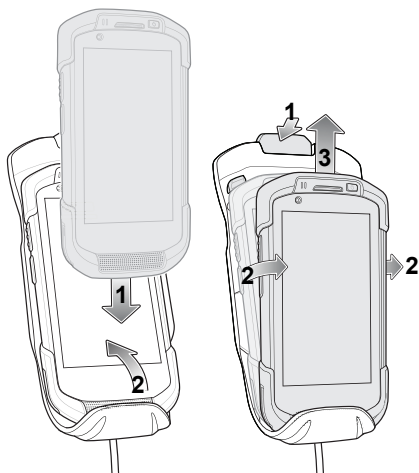
USB I/O Hub Power

To connect the USB I/O Hub to the vehicle cradle:

1. Connect the Power Input Connector to the USB I/O Hub Power Output connector.
2. Tighten thumb screws.



TC75 Insertion and Removal



To ensure the TC75 was inserted correctly, listen for the audible click that signifies that the TC75 locking mechanism was enabled and the TC75 was locked into place.



CAUTION Ensure that the TC75 is fully inserted into the cradle. Lack of proper insertion may result in property damage or personal injury. Zebra Technologies Corporation is not responsible for any loss resulting from the use of the products while driving.

To remove the TC75 from the cradle, press the release latch, grasp the TC75 and lift out of the vehicle cradle.

TC75 Battery Charging

Ensure the vehicle cradle is connected to a power source. See [USB I/O Hub Power on page 9](#).

Insert the TC75 into the cradle. The TC75 starts to charge through the cradle as soon as it is inserted. This does not deplete the vehicle battery significantly. The battery charges in approximately four hours. See [LED Indicators on page 12](#) for all charging indications.

Charging Note

The Vehicle Cradle operating temperature is -40°C to +85°C. When in the cradle, the TC75 will only charge when its temperature is between 0°C to +40°C.

LED Indicators

LED	Indication
TC75 Battery Charging (LED is on TC75)	
Off	TC75 is not in cradle, TC75 is not placed correctly, or cradle is not powered.
Fast Blinking Red (twice a second)	Error in charging (not within battery charging temperature or charging for too long without completion). Check placement of TC75.
Slow Blinking Amber (once every two seconds)	TC75 is charging.
Solid Green	Charging is complete.

Care and Cleaning

Avoid getting oils, grease or gasoline on the cradle, and do not let debris gather in the bottom of the cradle slot. When necessary, clean the cradle with a mild cleaner. If you are not sure whether or not to use a particular cleaner, contact Zebra for advice.

Troubleshooting

Symptom	Possible Cause	Action
TC75 charging LED does not light up.	Cradle is not receiving power.	Ensure the Power Input cable is securely connected to the cradle's Power Port.
TC75 battery is not charging.	TC75 was removed from the cradle too soon.	Replace the TC75 in the cradle; you may have removed it before it was recharged. If a TC75 battery is fully depleted, it can take six hours to fully recharge the battery.
	Battery is faulty.	Replace the battery.
	TC75 was not placed correctly in the cradle.	Remove the TC75 from the cradle, and re-insert correctly. If the battery still does not charge, contact system administrator. The TC75 battery charging LED slowly blinks amber when the TC75 is correctly inserted and charging.
	Ambient temperature is too high or too low.	Ambient temperature within the vehicle may be too high or too low. Charging will begin when temperature within the vehicle is within the TC75 charging temperature range (0 °C to 40 °C).

CMM Disclosure

部件名称 (Parts)	有害物质					
	铅 (P b)	汞 (H g)	镉 (C d)	六价 铬 (Cr (VI))	多溴联 苯 (PBB)	多溴二 苯醚 (PBDE)
金属部件 (Metal Parts)	X	O	O	O	O	O
电路模块 (Circuit Modules)	X	O	O	O	O	O
电缆及电缆组件 (Cables and Cable Assemblies)	O	O	O	O	O	O
塑料和聚合物部件 (Plastic and Polymeric Parts)	O	O	O	O	O	O
光学和光学组件 (Optics and Optical Components)	O	O	O	O	O	O
电池 (Batteries)	O	O	O	O	O	O

本表格依据SJ/T 11364 的规定编制。

0: 表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。

X: 表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T 26572 规定的限量要求。（企业可在此处，根据实际情况对上表中打“×”的技术原因进行进一步说明。）

This table was created to comply with China RoHS requirements.



Zebra Technologies Corporation
3 Overlook Point
Lincolnshire, Illinois 60069 USA
<http://www.zebra.com>

ZEBRA and the stylized Zebra head are trademarks of Zebra Technologies Corporation, registered in many jurisdictions worldwide. All other trademarks are the property of their respective owners. ©2019 Zebra Technologies Corporation and/or its affiliates. All rights reserved.



MN-002891-02 Rev. A - November 2019