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ADP-TC51-RGIO1-03

User Manual: Generic Sync & Charge Connector

Model: ADP-TC51-RGIO1-03

For Zebra Symbol TC51, TC510K, TC52, TC56, TC57 Handheld Barcode Scanners

Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Generic Sync & Charge Connector (Model: ADP-TC51-RGIO1-03). This connector is designed as a spare replacement part for specific Zebra Symbol handheld barcode scanners, enabling both data synchronization and device charging. Please read this manual thoroughly before use to ensure proper functionality and safety.

Compatibility

This Sync & Charge Connector is specifically designed for and compatible with the following Zebra Symbol handheld barcode scanner models:

- Zebra Symbol TC51
- Zebra Symbol TC510K
- Zebra Symbol TC52
- Zebra Symbol TC56
- Zebra Symbol TC57

Ensure your device model matches one of the listed compatible scanners before attempting installation.

Product Contents

Each package contains:

- 10 x Sync & Charge Docking Connector (Model: ADP-TC51-RGIO1-03)



Image: An overview showing the Sync & Charge Connector components alongside a Zebra handheld barcode scanner, illustrating how the connector integrates with the device.



Image: An angled view of the connector, featuring a 'Pass' quality control sticker, indicating inspection.

Key Features

- **Dual Functionality:** Supports both data synchronization and device charging for compatible Zebra Symbol scanners.
- **7-Pin I/O Connector:** Features a 7-pin interface for stable and reliable data transmission and power delivery.
- **High Safety Standards:** Constructed from high-quality anti-oxidation and heat-resistant metal material, incorporating over-current and over-voltage protection for safe operation.
- **Durable Design:** Engineered for stable installation on the scanner, resisting accidental dislodgement.
- **Easy Replacement:** Designed for straightforward installation, allowing quick replacement of damaged or non-functional connectors.

Setup and Installation

The installation of the Sync & Charge Connector is designed to be simple and convenient. Follow these steps to properly install the connector:

1. **Identify the Connector Port:** Locate the I/O connector port at the bottom of your compatible Zebra Symbol handheld barcode scanner.
2. **Align the Connector:** Carefully align the 7-pin side of the Sync & Charge Connector with the scanner's I/O port. Ensure the USB-C end of the connector is facing the correct direction for connection to a charging cable or data cable.

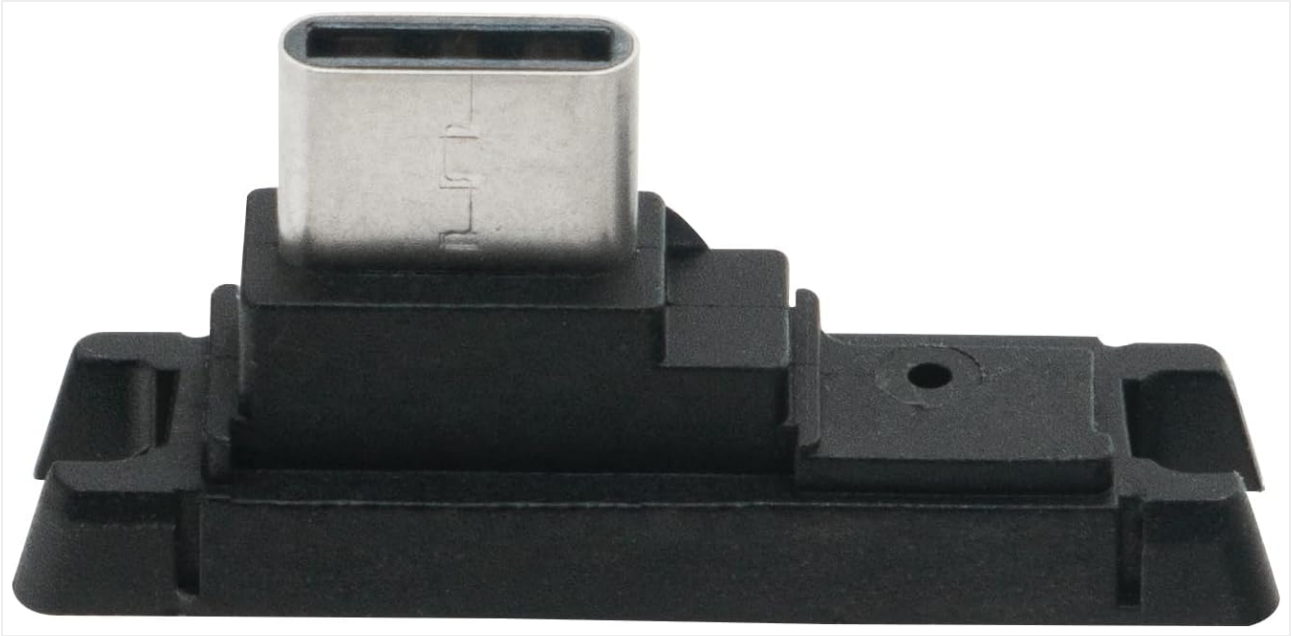


Image: A detailed view of the connector's USB-C plug, which connects to the charging/data cable.

3. **Insert the Connector:** Gently push the connector into the scanner's port until it is firmly seated. It should fit snugly to ensure a stable connection. Do not force the connector if it does not slide in easily; re-check alignment.

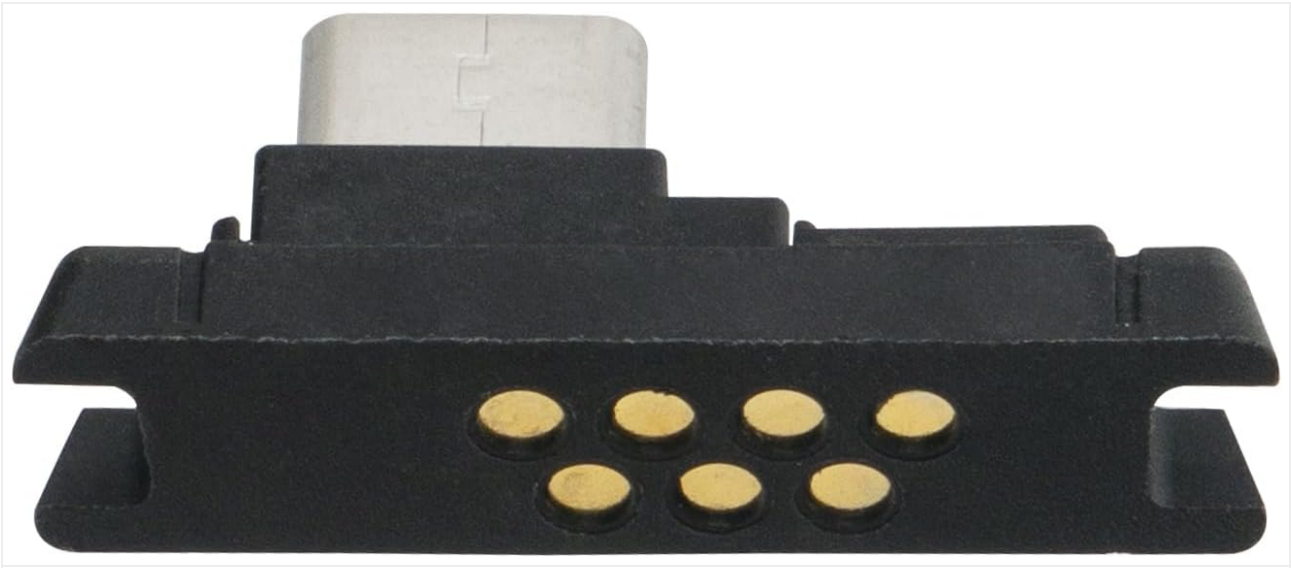


Image: A top-down view highlighting the 7-pin contacts on the connector, which interface with the scanner.

4. **Verify Connection:** Once inserted, the connector should be stable and not easily fall off.

Operation

After successful installation, the connector facilitates two primary functions:

Charging the Device

1. Connect a compatible USB-C charging cable to the USB-C port on the Sync & Charge Connector.



Image: The underside of the connector, clearly showing the USB-C input port for charging and data transfer.

2. Connect the other end of the charging cable to a suitable power adapter or a powered USB port.
3. The scanner should indicate that it is charging.

Data Synchronization

1. Connect a compatible USB-C data cable to the USB-C port on the Sync & Charge Connector.
2. Connect the other end of the data cable to a computer or host device.
3. The scanner and computer should establish a connection, allowing for data transfer and synchronization as per your scanner's operating system and software.

Maintenance

To ensure the longevity and optimal performance of your Sync & Charge Connector, follow these simple maintenance guidelines:

- **Cleaning:** Periodically inspect the connector for dust or debris. Use a soft, dry cloth or a small, soft brush to gently clean the pins and ports. Avoid using liquids or abrasive cleaners.
- **Storage:** When not in use, store the connector in a clean, dry environment away from extreme temperatures and direct sunlight.
- **Handling:** Always handle the connector by its body, avoiding pulling on the cable when disconnecting. Do not bend or twist the connector excessively.
- **Inspection:** Regularly check for any signs of physical damage, such as bent pins or cracks in the housing. Discontinue use if damage is observed.

Troubleshooting

Problem	Possible Cause	Solution
Device not charging.	• Connector not fully inserted. • Faulty charging cable or power adapter. • Dirty or damaged connector pins.	• Ensure the connector is firmly seated in the scanner's port. • Try a different charging cable and power adapter. • Clean the connector pins gently. If damaged, replace the connector.

Problem	Possible Cause	Solution
Data synchronization fails.	• Connector not fully inserted. • Faulty data cable. • Driver issues on the computer.	• Ensure the connector is firmly seated. • Try a different data cable. • Verify that the necessary drivers for your Zebra scanner are installed on your computer.
Connector feels loose.	• Improper insertion. • Wear and tear.	• Re-insert the connector, ensuring it clicks into place if applicable. • If the connector is worn or damaged, replacement is recommended.

Specifications

Model Number	ADP-TC51-RGIO1-03
Connector Type	USB-C to 7-Pin I/O Connector
Compatibility	Zebra Symbol TC51, TC510K, TC52, TC56, TC57 Handheld Barcode Scanners
Material	High-quality anti-oxidation and heat-resistant metal
Functions	Charging, Data Synchronization
Quantity (per pack)	10 PCS (for this specific product variant)

Warranty and Support

This ADP-TC51-RGIO1-03 connector comes with a**3-month warranty service** from the date of purchase. This warranty covers manufacturing defects and ensures the durability of the synchronization and charging connector. For any questions, technical assistance, or warranty claims, please contact our professional service team. We are committed to providing support within 24 hours to assist you with any issues or inquiries.
Contact information (e.g., email, phone number, website) would typically be provided here by the manufacturer.

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