

## ePartSolution TLA002 T40 Pro

# ePartSolution Type C USB Charging Port Replacement Manual

For Teclast TLA002 T40 Pro Tablet

## INTRODUCTION

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This manual provides instructions for the installation and care of the ePartSolution Type C USB Charging Port Dock Connector Replacement for the Teclast TLA002 T40 Pro Tablet. This component is designed to restore charging functionality to your device. **Please note that this replacement requires advanced technical skills and soldering. It is strongly recommended that installation be performed by a qualified technician.** Improper installation can damage the component or your device.

## SETUP AND PRE-INSTALLATION

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Before beginning the replacement process, ensure you have all necessary tools and a suitable workspace.

### Required Tools:

- Soldering Iron with fine tip
- Desoldering wick or desoldering pump
- Flux
- Solder (lead-free recommended)
- Small Phillips and flathead screwdrivers
- Plastic spudger or opening tools
- Tweezers
- Multimeter (for testing)
- Safety glasses
- Anti-static wrist strap (recommended)

### Pre-Installation Steps:

1. **Power Off Device:** Ensure the Teclast T40 Pro tablet is completely powered off.

2. **Discharge Battery:** If possible, discharge the tablet's battery below 25% to reduce risk during repair.
3. **Prepare Workspace:** Work on a clean, well-lit, and static-free surface.
4. **Identify Component:** Familiarize yourself with the replacement charging port.



Image: Two ePartSolution Type C USB charging port replacement connectors. These are the components you will be installing. Note the pin configuration and mounting tabs.

## OPERATING (INSTALLATION) INSTRUCTIONS

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Follow these steps carefully for the replacement of the USB Type C charging port. Proceed with caution and ensure proper safety measures are in place.

1. **Disassemble Tablet:** Carefully open the Teclast T40 Pro tablet according to a reliable device-specific disassembly guide. Disconnect the battery before proceeding with any soldering.
2. **Locate Damaged Port:** Identify the existing USB Type C charging port on the tablet's mainboard.
3. **Desolder Old Port:** Apply flux to the pins and mounting pads of the old charging port. Using a soldering iron and desoldering wick/pump, carefully remove all solder from the data pins and mounting tabs. Once all solder is removed, gently lift and remove the old port.
4. **Clean Pads:** Clean the solder pads on the mainboard thoroughly using isopropyl alcohol and a cotton swab or brush to remove any old solder residue and flux. Ensure the pads are clean and dry.
5. **Prepare New Port:** Apply a small amount of flux to the pins and mounting tabs of the new ePartSolution charging port.
6. **Position New Port:** Carefully align the new charging port with the cleaned pads on the mainboard. Ensure all pins and mounting tabs are correctly seated.
7. **Solder New Port:** Begin by soldering the mounting tabs to secure the port in place. Then, carefully solder each data pin, ensuring clean, strong connections without bridging any pins. Use minimal solder to avoid shorts.
8. **Inspect Solder Joints:** Visually inspect all solder joints under magnification if possible. Ensure there are no cold joints, solder bridges, or lifted pads. Use a multimeter to check for continuity and shorts if you are

experienced in doing so.

9. **Reassemble Tablet:** Reconnect the battery and carefully reassemble the tablet, ensuring all connectors are properly seated and screws are tightened appropriately.
10. **Initial Test:** Connect a known good USB Type C charging cable and power adapter to the tablet. Observe if the tablet begins to charge.

## MAINTENANCE

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Proper care of the newly installed charging port can extend its lifespan and ensure reliable performance.

- **Gentle Handling:** Always insert and remove charging cables gently. Avoid forcing the cable or wiggling it excessively while connected.
- **Use Quality Cables:** Use only high-quality, compatible USB Type C cables and chargers to prevent damage to the port.
- **Keep Clean:** Periodically inspect the port for dust or debris. Use a soft, dry brush or compressed air to gently clean the port if necessary. Avoid using sharp objects.
- **Avoid Stress:** Do not use the tablet while it is charging in a way that puts strain on the charging port (e.g., bending the cable sharply).

## TROUBLESHOOTING

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If you encounter issues after replacing the charging port, consider the following:

- **Tablet Not Charging:**
  - Verify the charging cable and power adapter are functional by testing them with another device.
  - Re-open the tablet and carefully inspect the solder joints on the new charging port for any cold joints or bridges. Re-solder if necessary.
  - Ensure the battery connector is securely attached to the mainboard.
- **Intermittent Charging:**
  - Check for any debris inside the charging port.
  - Inspect the charging cable for damage.
  - Re-examine solder joints for hairline cracks or weak connections.
- **Tablet Not Recognized by Computer:**
  - This indicates an issue with the data lines. Carefully inspect the data pin solder joints for continuity and shorts.
  - Ensure the USB cable supports data transfer.

If issues persist after troubleshooting, professional assistance is recommended.

## SPECIFICATIONS

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|-----------------------|---|
| <b>Component Type</b> | USB Type C Charging Port Dock Connector |
| <b>Compatibility</b>  | Teclast TLA002 T40 Pro Tablet           |
| <b>Quantity</b>       | 2 pieces                                |
| <b>Manufacturer</b>   | JM International Inc                    |

|                 |               |
|-----------------|---------------|
| Special Feature | Charging Port |
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## WARRANTY AND SUPPORT

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This ePartSolution replacement part is typically covered by a limited warranty from the seller against manufacturing defects. Please refer to your purchase documentation for specific warranty terms and conditions. Note that improper installation or damage during the repair process is not covered by warranty.

For support regarding the replacement part itself, or if you believe the part is defective upon receipt, please contact ePartSolution Ships From Chicago, the seller, directly. They can be reached via the platform where the purchase was made. For issues related to the tablet's functionality after installation, it is advisable to consult a professional repair service.

**Disclaimer:** Installation of this component requires technical expertise and soldering. Attempting this repair without adequate skills and tools may result in damage to the component, your device, or personal injury. The manufacturer and seller are not responsible for damages incurred due to improper installation.