

JTLB JTLB69q01tbw2n

JTLB 48V 800W Electric Scooter Controller (Model JTLB69q01tbw2n) Instruction Manual

Comprehensive guide for installation, operation, and maintenance.

1. INTRODUCTION

This manual provides essential information for the safe and efficient use of your JTLB 48V 800W Electric Scooter Controller, Model JTLB69q01tbw2n (also known as T4 DB L148). Please read this manual thoroughly before installation and operation to ensure proper function and longevity of the product.

The controller is designed to manage the power delivery to your electric scooter's motor, offering stable speed control and responsive handling. It features an aluminum alloy shell for efficient heat dissipation and includes various safety guards.

2. SAFETY INFORMATION

Always prioritize safety when working with electrical components. Failure to follow these safety guidelines may result in injury, damage to the product, or other property.

- Ensure the power source is disconnected before attempting any installation, maintenance, or troubleshooting.
- Wear appropriate personal protective equipment (PPE), such as insulated gloves and safety glasses.
- Do not expose the controller to water or excessive moisture.
- Verify all connections are secure and correctly wired according to the provided diagrams (if available, otherwise general guidance).
- Do not attempt to modify the controller. Unauthorized modifications can void the warranty and create safety hazards.
- Keep children and pets away from the work area during installation.

3. PRODUCT OVERVIEW

The JTLB 48V 800W Electric Scooter Controller is a main control module designed for electric scooters, bicycles, and tricycles. It features a robust aluminum alloy casing and multiple wiring harnesses for various connections.



Figure 1: Front view of the JTLB 48V 800W Electric Scooter Controller, showing the aluminum casing and multiple wire connectors.

Key Features:

- **Excellent Heat Dissipation:** Aluminum alloy shell with groove design protects internal circuits from overheating.
- **Stable Speed and Responsive Control:** Provides consistent speed management and sensitive control for braking and direction changes.
- **High Temperature Wiring:** Equipped with flame-retardant wires for enhanced safety and durability.
- **Safety Guards:** Includes undervoltage guard, overcurrent guard, and overspeed guard for safe operation.
- **Wide Application:** Compatible with electric scooters, electric bicycles, and electric tricycles.

4. SETUP AND INSTALLATION

Installation of the controller requires basic electrical knowledge. If you are unsure, consult a qualified technician. Ensure the vehicle's power is completely off before proceeding.

General Installation Steps:

1. **Prepare the Vehicle:** Disconnect the battery and ensure no power is supplied to the electric scooter, bicycle, or tricycle.
2. **Locate Mounting Position:** Identify a suitable, secure, and well-ventilated location for the controller, typically within the vehicle's frame or a dedicated compartment.
3. **Mount the Controller:** Secure the controller using appropriate fasteners. The aluminum casing is designed for heat dissipation, so ensure adequate airflow around it.

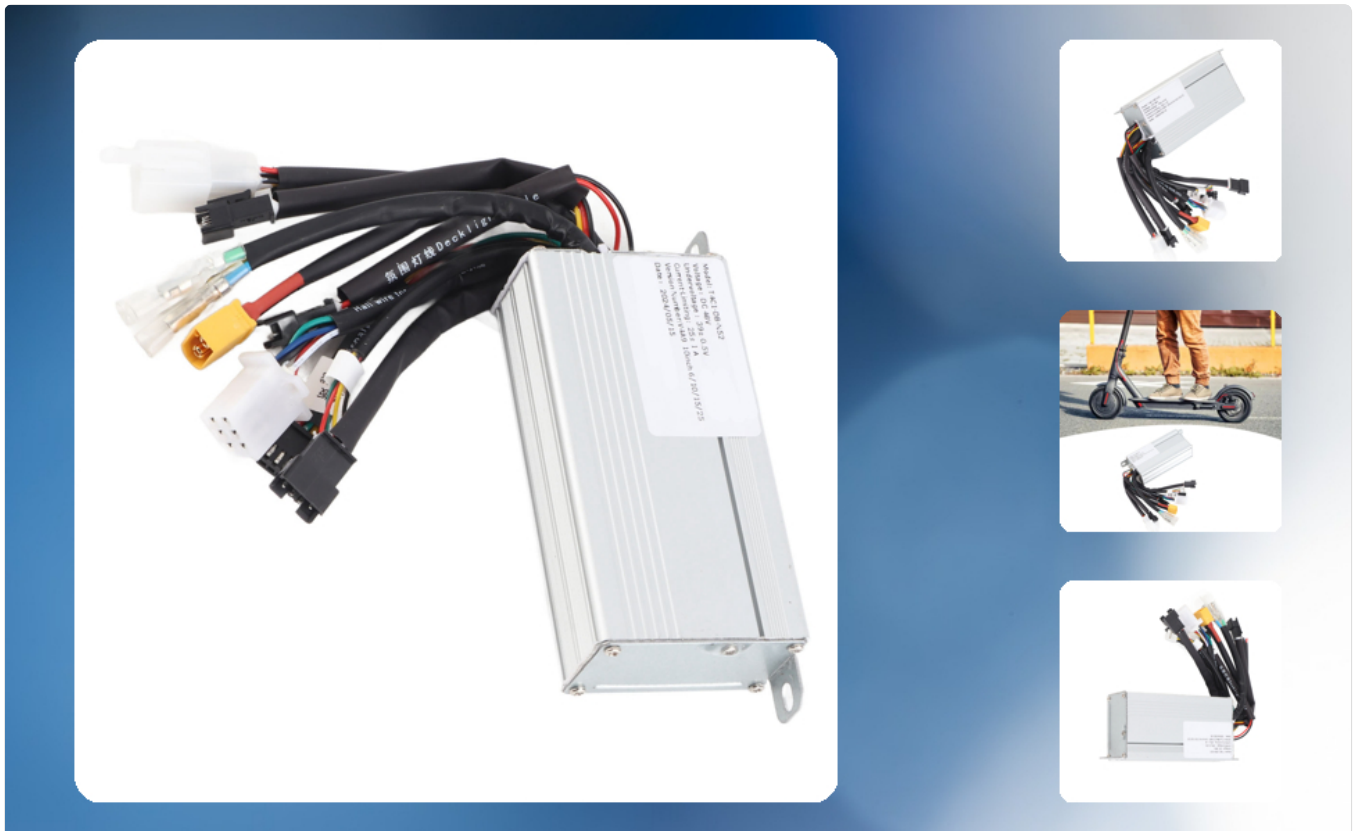


Figure 2: Example of a scooter with the controller installed, highlighting its application.

4. **Connect Wiring:** Carefully connect the various wiring harnesses from the controller to the corresponding components of your electric vehicle. These typically include:
 - **Power Input:** Connect to the battery (48V).
 - **Motor Output:** Connect to the electric motor.
 - **Throttle/Accelerator:** Connect to the throttle mechanism.
 - **Brake Levers:** Connect to the brake sensors/levers.
 - **Display/Dashboard:** Connect to the vehicle's display unit (if applicable).
 - **Hall Sensors:** Connect to the motor's Hall sensors (if applicable).
 - **Other Accessories:** Connections for lights, horn, etc., as per your vehicle's wiring diagram.

Note: Refer to your specific electric vehicle's wiring diagram for precise connection points and color codes. The controller's wires are high-temperature and flame-retardant for safety.

5. **Secure Connections:** Ensure all connections are tight and insulated to prevent short circuits. Use cable ties to

manage wires neatly.

6. **Initial Power-Up:** Reconnect the battery. Perform a preliminary test at low speed in a safe environment to verify proper function of the motor, throttle, and brakes.

5. OPERATING INSTRUCTIONS

Once installed, the controller manages the power flow to your electric vehicle. Operation is typically through the vehicle's standard controls (throttle, brakes, display).

- **Power On/Off:** Use the vehicle's main power switch to turn the system on or off.
- **Throttle Control:** The controller translates throttle input into motor speed. Apply throttle gradually for smooth acceleration.
- **Braking:** The controller integrates with the braking system to cut power to the motor when brakes are applied, ensuring responsive stopping.
- **Display Feedback:** If connected to a display, the controller provides data such as speed, battery level, and error codes.



Figure 3: The controller ensures stable speed and sensitive control for braking and directional changes.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your controller.

- **Keep Clean:** Periodically clean the exterior of the controller to prevent dust and debris buildup, which can hinder heat dissipation. Use a dry, soft cloth.
- **Inspect Wiring:** Regularly check all wiring connections for signs of wear, corrosion, or looseness. Secure any loose connections.
- **Avoid Overheating:** Ensure the controller's mounting location allows for adequate airflow. Avoid covering the controller or operating it in extremely high ambient temperatures for extended periods.



Figure 4: The aluminum alloy shell with groove design facilitates good heat dissipation.

- **Environmental Protection:** Protect the controller from direct exposure to rain, snow, or harsh chemicals.

7. TROUBLESHOOTING

If you encounter issues with your electric vehicle's performance, the controller may be a factor. Here are some common troubleshooting steps:

Problem	Possible Cause	Solution
Motor not responding	Loose power connection, faulty throttle, motor issue, or controller fault.	Check battery connection. Inspect throttle wiring. Test motor directly if possible. If other components are functional, the controller may need replacement.
Intermittent power/speed	Loose wiring, poor battery connection, or intermittent sensor fault.	Verify all connections are secure. Check battery charge and health. Inspect Hall sensor wires.
Overheating controller	Insufficient airflow, excessive load, or internal fault.	Ensure controller is not obstructed. Reduce load on the motor. If problem persists, discontinue use and seek professional assistance.
Brakes not cutting power	Brake sensor wiring issue or faulty brake lever.	Check brake lever connections to the controller. Ensure brake levers are functioning correctly.

If these steps do not resolve the issue, contact customer support or a qualified technician.

8. SPECIFICATIONS

Detailed technical specifications for the JTLB 48V 800W Electric Scooter Controller (Model JTLB69q01tbw2n).

- **Brand:** JTLB
- **Model Number:** JTLB69q01tbw2n (T4 DB L148)
- **Voltage:** 48V
- **Power:** 800W
- **Material:** Aluminum Alloy
- **Item Weight:** 10.6 ounces (300 Grams)

- **Operating Temperature:** Up to 60 Degrees Celsius
- **Color:** Silver
- **Batteries Required:** No (for the controller itself)

9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the retailer or manufacturer's official channels. Protection plans may be available for extended coverage.

- **Manufacturer:** JTLB
- **ASIN:** B0DT1BWVM5
- **Return Policy:** Typically 30 days for refunds/replacements (check with your retailer).
- **Protection Plans:** Optional 3-Year or 4-Year protection plans may be available for purchase separately.

For technical assistance or inquiries, please contact your point of purchase or visit the JTLB official support website (if available).

© 2023 JTLB. All rights reserved. Information in this manual is subject to change without notice.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

