

SPTBMDJ SPTBMDJ124

# SPTBMDJ 36V Controller + ZQ-100 Mileage Meter User Manual

Model: SPTBMDJ124 | Brand: SPTBMDJ

## 1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your SPTBMDJ 36V Controller and ZQ-100 Mileage Meter. This product is designed to enhance the functionality of electric scooters, offering reliable control and clear display of mileage and speed.

The components are manufactured from high-quality materials, ensuring high strength and durability for long-term use. They are designed for simple and fast installation, providing a direct replacement for damaged or broken parts.

## 2. SAFETY INFORMATION

Please read all instructions carefully before installation and operation. Failure to follow these guidelines may result in damage to the product, electric scooter, or personal injury.

- Always disconnect the electric scooter's power source before attempting any installation or maintenance.
- If you are unsure about any installation steps, seek assistance from a qualified technician.
- Ensure all connections are secure and properly insulated to prevent short circuits.
- Keep the product away from water and excessive moisture.
- Do not attempt to modify the controller or meter. Unauthorized modifications can void the warranty and pose safety risks.

## 3. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- 1 x ZQ-100 Mileage Meter with Key Ignition
- 1 x 36V Brushless Motor Controller
- 2 x Keys for Ignition



Figure 3.1: Complete package contents including the ZQ-100 Mileage Meter, 36V Controller, and keys.

## 4. SETUP AND INSTALLATION

The SPTBMDJ 36V Controller and ZQ-100 Mileage Meter are designed for easy and fast installation. They can be installed and removed without damaging the electric scooter, ensuring a firm and reliable fit.

### 4.1. Controller Installation

The 36V Brushless Motor Controller manages the power delivery to your scooter's motor. It features multiple wiring harnesses for various connections.



Figure 4.1: The 36V Brushless Motor Controller with its wiring harnesses.

1. Identify the appropriate mounting location for the controller on your electric scooter, typically within a protected compartment.
2. Connect the main power wires from the scooter's battery to the controller. Ensure correct polarity.
3. Connect the motor phase wires from the scooter's motor to the corresponding terminals on the controller.
4. Connect the throttle, brake, and other accessory wires (e.g., lights, horn) to their respective connectors on the controller. Refer to your scooter's wiring diagram if available.
5. Secure the controller firmly in place to prevent movement during operation.

## 4.2. ZQ-100 Mileage Meter Installation

The ZQ-100 Mileage Meter integrates the display and key ignition for convenient control and information display.



Figure 4.2: The ZQ-100 Mileage Meter with key ignition.

1. Mount the ZQ-100 Mileage Meter on the handlebars of your electric scooter in a position that is easily visible and accessible.
2. Connect the 6-pin display cable from the ZQ-100 meter to the corresponding 6-pin connector on the 36V controller.
3. Ensure all connections are snug and secure.

## 5. OPERATING INSTRUCTIONS

### 5.1. Powering On/Off

- To power on the electric scooter and activate the meter, insert the key into the ZQ-100 Mileage Meter's ignition and turn it to the 'ON' position.
- To power off, turn the key to the 'OFF' position and remove it.

### 5.2. ZQ-100 Meter Functions

The ZQ-100 Mileage Meter provides essential riding information:

- **Mileage Display:** The screen will show the current mileage accumulated by the scooter.
- **Speed Display:** The current speed of the scooter will be displayed.
- **Speed Adjustment:** The system allows for speed adjustment, typically through a 'MODE' button or similar interface on the meter. Consult your scooter's specific settings for detailed speed mode changes.

## 6. MAINTENANCE

Regular maintenance helps ensure the long service life and optimal performance of your controller and meter.

- **Cleaning:** Wipe the meter and controller surfaces with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials.
- **Connection Check:** Periodically inspect all wiring connections to ensure they are secure and free from corrosion or damage.
- **Environmental Protection:** While durable, avoid exposing the components to extreme temperatures, direct sunlight for prolonged periods, or heavy rain.

## 7. TROUBLESHOOTING

If you encounter issues with your SPTBMDJ 36V Controller or ZQ-100 Mileage Meter, consider the following common solutions:

- **No Power to Meter/Scooter:**
  - Ensure the key is fully inserted and turned to the 'ON' position.
  - Check all power connections from the battery to the controller and from the controller to the meter.
  - Verify the scooter's battery is charged.
- **Incorrect Speed/Mileage Display:**
  - Ensure the 6-pin display cable is securely connected.
  - If the issue persists, it may indicate a sensor problem or a need for recalibration (consult a professional).
- **Scooter Not Responding to Throttle:**
  - Check the throttle connection to the controller.
  - Verify the controller is receiving power.

For persistent issues, it is recommended to consult a qualified electric scooter technician.

## 8. SPECIFICATIONS

Feature	Detail
Item Model Number	SPTBMDJ124
ASIN	B0DSD7HWHJ
Manufacturer	SPTBMDJ
Package Dimensions	1.18 x 0.79 x 0.39 inches
Item Weight	1.76 ounces
Department	Unisex Adult
Assembly Required	No

Feature	Detail
Number of Pieces	1 (set includes meter, controller, keys)

## 9. WARRANTY AND SUPPORT

Specific warranty details for this product are not provided within this manual. For information regarding warranty coverage, returns, or technical support, please contact the seller or manufacturer directly through your purchase platform.

For general inquiries or assistance, refer to the contact information provided by your retailer or the SPTBMDJ brand's official channels.

