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› TUORUIBOKE TRBK-M2 Electric Scooter User Manual

## TUORUIBOKE M2

# TUORUIBOKE TRBK-M2 Electric Scooter User Manual

Model: M2

## 1. INTRODUCTION

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Thank you for choosing the TUORUIBOKE TRBK-M2 Electric Scooter. This manual provides essential information for the safe assembly, operation, maintenance, and troubleshooting of your scooter. Please read this manual thoroughly before your first ride to ensure optimal performance and safety.



Image 1.1: The TUORUIBOKE TRBK-M2 Electric Scooter, showcasing its design and foldable capability.

## 2. SAFETY INFORMATION

Your safety is paramount. Always wear a helmet and appropriate protective gear (knee pads, elbow pads, gloves) when riding. Adhere to local laws and regulations regarding electric scooter use.

- **UL2272 Certified:** This electric scooter is UL2272 certified, ensuring the safety of its battery and electrical system.
- **Age and Weight Limit:** This scooter is designed for adults. The maximum weight limit is 400 pounds (approximately 181 kg).
- **Pre-Ride Check:** Before each ride, inspect the brakes, tire pressure, and ensure all quick-release mechanisms are securely fastened.
- **Environmental Conditions:** Avoid riding in heavy rain, snow, or on icy surfaces. The scooter is designed for off-road use but extreme conditions can compromise safety.
- **Speed and Control:** The TRBK-M2 is a high-performance scooter capable of speeds up to 62 mph. Exercise extreme caution, especially at high speeds. Familiarize yourself with the controls in a safe, open

area before riding in traffic.

### 3. PRODUCT OVERVIEW

The TUORUIBOKE TRBK-M2 is a powerful dual-drive off-road electric scooter featuring advanced technology and robust construction.

#### 3.1 Key Features

- **High-Definition Instrument Display:** Integrates vehicle function control, gear shift, front/rear drive switching, and driving mode selection.
- **Dual 10000W Motors:** Provides strong power for speeds up to 62 mph and a climbing height of 45 degrees. Features an air-cooled heat dissipation design.
- **72V35Ah Li-Ion Battery:** Offers a maximum range of 62 miles (70 miles in some conditions) with a 2520Wh capacity.
- **Hydraulic Brakes & Shock Absorption:** Equipped with front and rear hydraulic disc brakes, electronic brakes (adjustable 1-5 gears), and dual hydraulic shock absorption for a smooth ride.
- **11-inch All-Terrain Tires:** Vacuum pneumatic tires designed for various road surfaces.
- **Dynamic Lighting System:** Includes futuristic headlights, steering circular running lights, warning taillights, brake lights, and RGB color lights with remote control.
- **Intelligent Control:** Features a dual 72V35A vector frequency conversion sine wave controller, NFC password start, and app connectivity.

#### 3.2 Components



Image 3.1: Overview of the handlebar controls and display.

1. **Brake Handles:** Front and rear hydraulic brake levers.

2. **Headlamp:** Front illumination.
3. **Speed Display:** Shows current speed.
4. **NFC Sensor Zone:** For password activation.
5. **Driving Mode Button:** Switches between Energy-saving, Comfort, and Sport modes.
6. **Gears:** 1-3 adjustable gears.
7. **Activation Switch:** Start-up/shutdown switch.
8. **Riding Mode Switch:** Selects between Sport, Comfort, Energy-saving.
9. **Information Display:** Shows voltage, riding time, mileage, etc.
10. **Drive Regulation:** Front drive, Rear drive, Zero riding.
11. **Gear Adjustment:** 1-3 adjustable gears.
12. **Turn Signals:** Left and right indicators.
13. **Speaker:** Horn.
14. **Battery Indicator:** Displays current battery level.
15. **Front/Rear Drive Switch:** Engages single or dual motor drive.
16. **Total Endurance:** Displays estimated remaining range.
17. **Throttle:** Twist-grip accelerator and thumb accelerator.



Image 3.2: The hydraulic steering damper improves off-road stability and prevents handlebar sway.

## 4. SETUP

The TRBK-M2 scooter requires minimal assembly. Follow these steps to prepare your scooter for its first ride:

1. **Unfolding:** Carefully unfold the scooter from its compact position. Ensure all locking mechanisms for the stem and handlebars are securely engaged.
2. **Handlebar Adjustment:** Adjust the handlebar height to a comfortable position and secure it firmly.
3. **Seat Installation (Optional):** If you wish to use the included seat, attach it according to the separate seat installation guide.
4. **Initial Charge:** Before the first use, fully charge the battery. Refer to the 'Charging' section for detailed instructions.
5. **Tire Pressure:** Check and adjust tire pressure to the recommended levels for optimal performance and safety.

## 5. OPERATING INSTRUCTIONS

## 5.1 Starting the Scooter

1. **Power On:** Press the activation switch (7) to power on the scooter.
2. **NFC Activation:** Tap your NFC smart key on the NFC sensor zone (4) to activate the scooter. Alternatively, use the password start function if configured.
3. **Pre-Ride Check:** Confirm battery level, selected driving mode, and gear on the display (9).

## 5.2 Acceleration

The TRBK-M2 offers two acceleration methods:

- **Twist Throttle:** Gently twist the right handle (17) towards you to accelerate.
- **Thumb Accelerator:** Press the thumb lever on the right handle (17) to accelerate.



Image 5.1: The scooter features both twist-grip and thumb acceleration options.

## 5.3 Braking

The scooter is equipped with a comprehensive braking system:

- **Hydraulic Disc Brakes:** Squeeze the left and right brake handles (1) to engage the front and rear hydraulic disc brakes.
- **Electronic Brakes:** The electronic braking system provides additional stopping power. Its strength can be adjusted from 1 to 5 gears via the display settings.

## 5.4 Driving Modes

The TRBK-M2 offers three driving modes to suit different riding conditions:

- **Energy-saving Mode (E):** Provides reduced power output for extended range and smoother acceleration, ideal for casual cruising.
- **Comfort Mode (C):** A balanced mode offering a good mix of power and range for everyday riding.
- **Sport Mode (S):** Delivers maximum power and acceleration for high-performance riding. Use with caution.

Switch between modes using the Riding Mode switch (8) on the handlebar.



Image 5.2: Acceleration characteristics for the three driving modes.

## 5.5 Dual Drive Control

The scooter features a dual motor system. Use the Front/Rear Drive switch (15) to toggle between single motor (rear wheel drive) and dual motor (all-wheel drive) operation. Dual motor provides maximum power and traction, especially for off-road or uphill riding.

## 6. CHARGING

The TRBK-M2 is equipped with a 72V35Ah (2520Wh) lithium-ion battery pack. It comes standard with two 5A chargers for efficient charging.

- **Charging Ports:** Locate the charging ports on the scooter.
- **Connect Chargers:** Plug both 5A chargers into separate power outlets and then connect them to the scooter's charging ports.
- **Charging Time:** Using both chargers simultaneously, the battery can reach 0-80% charge in approximately 3.5 hours. A full charge typically takes around 6.5 hours.
- **Indicator Lights:** The charger's indicator light will typically be red during charging and turn green when fully charged.
- **Safety:** Always charge in a well-ventilated area, away from flammable materials. Do not leave charging unattended for extended periods.



Image 6.1: The scooter's high-capacity battery and dual charging capability.

## 7. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your TRBK-M2 scooter.

- **Cleaning:** Clean the scooter regularly with a damp cloth. Avoid using high-pressure water jets directly on electrical components.
- **Tire Care:** Regularly check tire pressure and inspect for wear or damage. The split motor design allows for easier outer tire replacement without disassembling the motor.



Image 7.1: The split motor design simplifies tire maintenance.

- **Brake Inspection:** Check brake pads and discs for wear. Ensure hydraulic brake fluid levels are adequate and brakes respond effectively.
- **Fasteners:** Periodically check all bolts and screws for tightness, especially on the handlebars, stem, and wheels.
- **Battery Storage:** If storing the scooter for an extended period, ensure the battery is charged to approximately 50-70% and store in a cool, dry place. Recharge every 1-2 months to prevent deep discharge.

## 8. TROUBLESHOOTING

This section addresses common issues you might encounter with your TRBK-M2 scooter.

Problem	Possible Cause	Solution
Scooter does not power on	Low battery; Power switch off; NFC not activated	Charge battery; Ensure power switch is on; Tap NFC key or enter password.
Reduced range or power	Low battery; Riding in Sport mode; Uphill riding; Heavy load; Low tire pressure	Fully charge battery; Switch to Energy-saving or Comfort mode; Check tire pressure.
Brake grinding noise	Misaligned brake caliper; Worn brake pads; Debris in brake system	Inspect brake caliper alignment; Replace worn brake pads; Clean brake system. If issue persists, consult a professional.
RGB lights not working	Loose connection; Remote control battery low; Faulty light strip	Check connections; Replace remote battery; If still not working, contact support.

Problem	Possible Cause	Solution
Unstable steering / Handlebar sway	Loose handlebar stem; Steering damper issue	Ensure handlebar stem is securely tightened. Inspect steering damper for damage or looseness.

## 9. SPECIFICATIONS

Feature	Specification
Brand	TUORUIBOKE
Model Name	M2
Motor Power	10000W (Dual Motor Drive)
Battery	72V 35Ah 2520Wh Li-Ion
Max Speed	62 mph (100 km/h)
Max Range	62-72 Miles (100-115 km)
Charging Time	6.5 Hours (approx. 3.5 hours for 0-80% with dual chargers)
Tires	11-inch Vacuum Pneumatic All-Terrain Tires
Brakes	Front and Rear Hydraulic Disc Brakes, Electronic Brakes (1-5 gears adjustable)
Suspension	Dual Hydraulic Shock Absorption (Front 630mm, Rear 1200lb)
Frame Material	Aluminum
Item Weight	46 Kilograms (approx. 101 lbs)
Weight Limit	400 Pounds (approx. 181 kg)
Product Dimensions (LxWxH)	52.7" x 14.1" x 20.8" (133.9cm x 35.8cm x 52.8cm)
Special Features	Adjustable Handlebar Height, Digital Display, Dual Charging Port, Foldable, USB Charging Interface, Steering Damper, RGB Lights
Certifications	UL2272

## 10. WARRANTY AND SUPPORT

### 10.1 Warranty Information

The warranty period for the electric control parts of the TUORUIBOKE TRBK-M2 Electric Scooter is 180 days, calculated from the date of package signing. This warranty does not cover brake pads, disc brakes, tires,

cosmetic appearance, or batteries that have been exposed to water.

## **10.2 Customer Support**

For any questions, technical assistance, or warranty claims, please contact TUORUIBOKE customer support through the platform where you purchased the scooter. Ensure you have your purchase details and scooter model number (M2) ready when contacting support.