MOONCOOL P1600161-TK120432GN

MOONCOOL Folding Electric Tricycle

INSTRUCTION MANUAL

1. Introduction

Welcome to the MOONCOOL Folding Electric Tricycle user manual. This guide provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your new electric trike. Designed for adults, this tricycle combines robust construction with powerful electric assistance for a comfortable and reliable riding experience.

Key features include a durable 6061 aluminum frame, a powerful 48V 500W helical motor, and a long-lasting 48V 14.5Ah removable battery offering a range of 35-45 miles per charge. The tricycle is equipped with front and back baskets for ample storage, making it ideal for commuting, errands, or leisurely rides.

Your MOONCOOL electric tricycle is certified to UL2849 and UL2272 standards, ensuring high levels of safety and quality.



Figure 1.1: The MOONCOOL Folding Electric Tricycle (Bordeaux) in its unfolded state, highlighting its design and storage capabilities. An inset image demonstrates its compact folded form.

2. Setup and Initial Preparation

Before your first ride, ensure the tricycle is properly assembled and charged. While the tricycle is 95% pre-installed, some final assembly and checks are required.

2.1 Unpacking and Assembly

- Carefully remove all components from the packaging.
- Unfold the tricycle frame, ensuring all locking mechanisms are securely engaged. Refer to the folding mechanism section for detailed instructions on unfolding.
- Attach the handlebars, seat, pedals, and any remaining accessories like the front and rear baskets. Ensure all bolts are tightened to the manufacturer's specifications.

2.2 Battery Charging

The 48V 14.5Ah removable battery should be fully charged before initial use. A full charge typically takes 6-8 hours using the provided 110V-240V 54.6V 2A charger.

- Locate the charging port on the battery or tricycle frame.
- Connect the charger to the battery, then plug the charger into a standard wall outlet.

- The charger indicator light will change (e.g., from red to green) when charging is complete.
- Always disconnect the charger once the battery is fully charged.



Figure 2.1: The removable 48V 14.5Ah battery, illustrating its specifications and ease of removal for convenient charging.

2.3 Pre-Ride Checks

- **Tire Pressure:** Ensure tires are inflated to the recommended pressure (check sidewall of tires).
- **Brakes:** Test both front and rear brakes to ensure they engage smoothly and effectively.
- **Lights:** Verify the LED headlight and any other lights are functioning correctly.
- **Quick Releases/Latches:** Double-check all quick releases and folding latches are securely fastened.

3. Operating Instructions

Familiarize yourself with the controls and features of your MOONCOOL electric tricycle for an optimal riding experience.

3.1 Powering On/Off and Display

The tricycle features a Smart LED Display to monitor speed, battery level, and assist mode.

- To power on, press and hold the power button on the display unit.
- The display will illuminate, showing current speed, battery charge, and pedal assist level.
- Use the '+' and '-' buttons to adjust the pedal assist level (typically 0-5 levels). Level 0 provides no electric assistance.
- To power off, press and hold the power button again until the display turns off.



Figure 3.1: The Smart LED Display provides real-time information on your ride, including speed, battery status, and pedal assist level.

3.2 Riding the Tricycle

- **Pedal Assist:** The 48V 500W helical motor provides assistance as you pedal. The level of assistance depends on your selected assist mode.
- **Throttle (if equipped):** Some models may include a thumb or twist throttle for electric power without pedaling. Use responsibly and according to local regulations.
- **Braking:** The tricycle is equipped with hydraulic disc brakes for reliable stopping power. Apply both brakes smoothly and evenly.
- **Cargo Baskets:** Utilize the front and back baskets for carrying personal items or groceries. Ensure items are securely placed and do not exceed the maximum load capacity (650 lbs total load capacity for the tricycle).



Figure 3.2: The MOONCOOL Electric Tricycle in use, demonstrating its practical design with integrated baskets and robust frame.

3.3 Folding Mechanism

The folding design allows for easy portability and storage.

- Ensure the tricycle is powered off before folding.
- Locate the folding latch on the main frame.
- Follow the specific folding sequence as indicated by markings or a quick-start guide (not provided here, but generally involves releasing latches and collapsing the frame).
- Secure the folded tricycle with any integrated straps or clips.

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Video 3.1: A demonstration of the MOONCOOL TK1 Electric Trike in action, showcasing its stability and ease of use. This video highlights the general riding experience.

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Video 3.2: This video provides a general overview of the Electric Tricycle for Adults MOONCOOL TK1, demonstrating its features and suitability for various users.

4. Maintenance

Regular maintenance ensures the longevity and safe operation of your MOONCOOL electric tricycle.

4.1 Battery Care

- Charge the battery regularly, even if not in frequent use, to maintain its health. Avoid completely draining the battery.
- Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures.
- Do not expose the battery to water or excessive moisture.

4.2 Tires and Brakes

- **Tires:** Check tire pressure weekly and inflate as needed. Inspect tires for wear, punctures, or damage.
- **Brakes:** Regularly inspect brake pads for wear and replace them when necessary. Ensure brake levers are firm and responsive. Adjust brake cables if there is excessive slack.

4.3 General Cleaning and Inspection

- Clean the tricycle regularly with a damp cloth. Avoid using high-pressure washers directly on electrical components.
- Inspect the frame for any cracks or damage, especially around welds and joints. The 6061 aluminum frame is designed for durability.
- Lubricate the chain and other moving parts periodically to ensure smooth operation.

5. Troubleshooting

This section addresses common issues you might encounter with your electric tricycle.

5.1 Power and Motor Issues

- **Tricycle not powering on:**
  - Check if the battery is properly seated and locked into place.
  - Ensure the battery is charged.
  - Verify all electrical connections are secure.
- **Motor not providing assistance:**
  - Check the pedal assist level on the display; ensure it's not set to 0.
  - Verify brake levers are not partially engaged, as this can cut motor power.
  - Ensure the battery has sufficient charge.



Figure 5.1: Illustration of the 500W helical motor, a key component for electric assistance.

5.2 Braking Issues

- **Brakes feel spongy or ineffective:**
  - Inspect brake pads for wear; replace if worn.
  - Check for air in the hydraulic lines (if applicable) or loose cables. Professional service may be required.

5.3 Other Issues

- **Unusual noises during operation:**
  - Check for loose components, rubbing parts, or debris in the drivetrain.
  - Ensure proper lubrication of the chain.
- **Error on home screen:**
  - Note the error code (if any) displayed. Refer to the specific display manual or contact customer support with the code.
  - Try powering off and on the tricycle to reset the system.

6. Specifications

Detailed technical specifications for the MOONCOOL Folding Electric Tricycle (Model: P1600161-TK120432GN).

Feature	Specification
Model Number	P1600161-TK120432GN
Frame Material	6061 Aluminum Frame
Motor	48V 500W Helical Motor (750W Peak Power)
Battery	48V 14.5Ah Removable Battery
Charging Time	6-8 Hours

Feature	Specification
Battery Range	35-45 Miles per charge
Charger	110V-240V 54.6V 2A
Max Safe Speed	16 MPH
Peak Torque	43NM
Recommended Height	5'2" - 6'
Load Capacity	650 lbs
Wheel Size	20 inch
Brakes	Hydraulic Disc Brakes
Suspension	High-Strength Suspension Fork (Coil spring structure, Mechanical lock out, Travel 40mm)
Certifications	UL2849, UL2272



Figure 6.1: Comprehensive diagram detailing the dimensions and key specifications of the MOONCOOL Electric Tricycle.

7. Warranty and Support

MOONCOOL is committed to providing excellent product quality and customer support.

- **Lifetime Warranty:** The 6061 Aluminum Frame is covered by a lifetime warranty.
- **1-Year Warranty:** 1-Year coverage for defective parts.
- **3-Year Protection:** 3-Year protection for the battery.
- **30-Day Returns:** Enjoy a 30-day return policy.

For direct assistance, you can search for "833-527-1666-MOONCOOL" or message the seller directly on Amazon for order assistance.



Figure 7.1: MOONCOOL U.S. Support Team information, outlining warranty details and contact options.