MOONCOOL P1600161-TK120432GN

MOONCOOL Folding Electric Tricycle User Manual

Model: P1600161-TK120432GN

Introduction | Safety Information | Package Contents | Setup | Operating | Maintenance | Troubleshooting | Specifications | Warranty & Support

1. Introduction

Thank you for choosing the MOONCOOL Folding Electric Tricycle. This manual provides essential information for the safe assembly, operation, maintenance, and troubleshooting of your new electric trike. Please read this manual thoroughly before your first ride to ensure optimal performance and safety.

This electric tricycle is designed for adults, featuring a robust aluminum frame, a powerful 48V 500W motor, and a removable battery for extended range. Its foldable design enhances portability and storage convenience, making it suitable for various daily activities and commutes.



Image: The MOONCOOL Folding Electric Tricycle in Bordeaux, showcasing its design and the included pet bag and front basket. A smaller inset image demonstrates the tricycle in its folded state, highlighting its compact storage capability.

2. Safety Information

Your safety is paramount. Always adhere to the following safety guidelines:

- **Helmet Use:** Always wear a certified helmet when riding.
- **Pre-Ride Check:** Before each ride, inspect brakes, tires, battery charge, and ensure all quick releases and fasteners are secure.
- **Traffic Laws:** Obey all local traffic laws and regulations. Ride predictably and signal turns.
- **Weather Conditions:** Exercise caution in wet or slippery conditions. Braking distance increases significantly.
- **Weight Limit:** Do not exceed the maximum load capacity of 450 lbs.
- **Battery Safety:** Use only the provided charger. Do not expose the battery to extreme temperatures or puncture it.
- **UL Certification:** This electric tricycle is certified to UL2849 and UL2272 standards, ensuring adherence to strict safety and quality requirements.
- **Children:** This product is intended for adult use only. Keep children away from moving parts and charging

components.

3. Package Contents

Upon opening your MOONCOOL Folding Electric Tricycle package, please verify that all components are present and undamaged:

- MOONCOOL Folding Electric Tricycle Frame (partially assembled)
- Front Wheel
- Rear Axle Assembly with Wheels
- Removable 48V 14.5Ah Battery
- Battery Charger (110V-240V 54.6V 2A)
- Front Basket
- Rear Pet Bag/Basket
- Pedals
- Seat and Seatpost
- Handlebars
- Assembly Tools (basic wrenches, hex keys)
- User Manual (this document)

4. Setup and Assembly

The MOONCOOL Folding Electric Tricycle comes 95% pre-installed. Follow these steps for final assembly:

1. **Unpacking:** Carefully remove all components from the packaging. Retain packaging for future transport or storage.
2. **Unfolding the Frame:** Locate the folding mechanism on the frame. Release the latch and carefully unfold the tricycle until the frame locks into place. Ensure it is securely locked before proceeding.
3. **Installing Handlebars:** Insert the handlebar stem into the fork tube and tighten the bolts securely. Adjust the handlebar angle for comfortable riding.
4. **Attaching Pedals:** Identify the left (L) and right (R) pedals. Thread the 'L' pedal counter-clockwise into the left crank arm and the 'R' pedal clockwise into the right crank arm. Tighten firmly with a wrench.
5. **Installing Seat and Seatpost:** Insert the seatpost into the frame's seat tube. Adjust the height to allow for a slight bend in your knee when the pedal is at its lowest point. Secure with the quick-release lever.
6. **Mounting Baskets:** Attach the front basket to the designated mounts on the front of the tricycle. Secure the rear pet bag/basket to the rear rack using the provided straps or mounting hardware.
7. **Battery Installation:** Insert the removable battery into its compartment on the frame. Ensure it clicks securely into place.
8. **Initial Charge:** Before your first ride, fully charge the battery. Connect the charger to the battery port and then to a power outlet. The indicator light on the charger will change when fully charged (approx. 7-9 hours).



Image: A detailed diagram illustrating the key dimensions and components of the MOONCOOL Electric Tricycle, useful for assembly and understanding its structure.

5. Operating Your Tricycle

Familiarize yourself with the controls and features before riding:

5.1 Powering On/Off

Press and hold the power button on the LED display to turn the tricycle on or off. The display will illuminate, showing battery level, speed, and other information.



Image: A close-up view of the tricycle's Smart LED Display, showing speed, battery, and odometer readings.

5.2 Riding Modes

- **Pedal Assist Mode:** The motor provides assistance as you pedal. Use the '+' and '-' buttons on the display to adjust the level of assistance.
- **Throttle Mode:** Engage the throttle (usually a twist grip or thumb lever) to propel the tricycle without pedaling.
- **Manual Mode:** Ride the tricycle like a traditional bicycle without motor assistance.

5.3 Braking

The tricycle is equipped with hydraulic disc brakes for reliable stopping power. Apply both brake levers simultaneously for balanced and effective braking. Practice braking in a safe, open area before riding in traffic.



Image: A detailed view of the high-strength suspension fork and front wheel, highlighting the mechanical lock-out travel of 40mm for a smoother ride.

5.4 Folding Mechanism

To fold the tricycle for storage or transport, ensure the power is off. Locate the folding latch on the frame, release it, and carefully fold the frame. Secure any folding clamps or straps to prevent accidental unfolding.

Video: An official product video demonstrating the MOONCOOL Electric Tricycle in use, highlighting its features and rider experience.

6. Maintenance

Regular maintenance ensures the longevity and safe operation of your tricycle:

- **Battery Care:**
    - Charge the battery regularly, even if not in use, to maintain its health.

    - Avoid fully discharging the battery.
    - Store the battery in a cool, dry place.

- **Tire Pressure:** Check tire pressure before each ride. Maintain recommended PSI (usually found on the tire sidewall) for optimal performance and safety.
- **Brake Inspection:** Regularly check brake pads for wear and brake levers for proper tension. Adjust or replace as needed.
- **Chain Lubrication:** Keep the chain clean and lubricated to ensure smooth pedaling and prevent rust.
- **General Cleaning:** Wipe down the frame and components with a damp cloth. Avoid using high-pressure washers directly on electrical components.
- **Fastener Check:** Periodically check all bolts, nuts, and quick releases to ensure they are tight and secure.



Image: A detailed view of the removable 48V 14.5Ah battery and its compartment, illustrating the charging time and range capabilities.

7. Troubleshooting

This section addresses common issues you might encounter:

Problem	Possible Cause	Solution
Tricycle does not power on	Battery not charged or not properly installed. Loose connections.	Ensure battery is fully charged and securely seated. Check all electrical connections.
Motor not assisting/working	Low battery. Pedal assist level too low. Brake levers engaged.	Charge battery. Increase pedal assist level on display. Ensure brake levers are fully released.
Brakes feel weak or spongy	Worn brake pads. Air in hydraulic lines. Loose cable (if applicable).	Inspect and replace brake pads. Consult a professional for hydraulic brake bleeding. Adjust brake cable tension.
Unusual noises during ride	Loose components. Dry chain. Misaligned parts.	Check all bolts and fasteners. Lubricate chain. Inspect for any rubbing parts.

If you encounter issues not listed here or require further assistance, please contact MOONCOOL customer support.

8. Specifications

Detailed technical specifications for your MOONCOOL Folding Electric Tricycle:

- **Model:** P1600161-TK120432GN
- **Bike Type:** Folding Electric Tricycle
- **Age Range:** Adult
- **Brand:** MOONCOOL
- **Number of Speeds:** 1
- **Color:** Bordeaux
- **Wheel Size:** 20 Inches
- **Frame Material:** 6061 Aluminum Frame
- **Suspension Type:** Front (Coil spring structure mechanical lock out travel 40mm)
- **Special Feature:** Foldable
- **Motor:** 48V 500W Helical Motor (1000W Peak Power)
- **Peak Torque:** 43NM
- **Max Safe Speed:** 16 MPH
- **Battery:** 48V 14.5Ah Removable Battery
- **Battery Range:** 35-45 miles per charge
- **Charging Time:** 7-9 hours
- **Charger:** 110V-240V 54.6V 2A
- **Load Capacity:** Up to 450 LBS
- **Recommended Rider Height:** 5'0" - 6'3"

Dimensions (Approximate)

- **Seat Tube Length:** 432mm / 17in

- **Top Tube Horizontal:** 558mm / 30in
- **Wheelbase:** 913mm / 36in
- **Stand Over Height:** 407mm / 16in
- **Reach:** 339mm / 13.4in
- **Bottom Bracket Height:** 421mm / 16.6in
- **Handle Bar Length:** 660mm / 26in
- **Total Length:** 1670mm / 66in
- **Total Width:** 730mm / 29in
- **Seat Height Min** / **Max:** 770mm / 990mm (30.3in / 39in)
- **Handle Bar Height Min** / **Max:** 1110mm / 1160mm (43.7in / 45.7in)
- **Front Basket:** 320 * 300 * 145mm (12.6 * 11.8 * 5.7in)
- **Rear Basket:** 480 * 360 * 160mm (18.9 * 14.2 * 6.3in)



Image: An illustration detailing the powerful 48V 500W helical motor, highlighting its 1000W peak power, 43NM peak torque, and 16MPH max safe speed.

9. Warranty & Support

MOONCOOL is committed to providing high-quality products and excellent customer service.

9.1 Warranty Information

- **Frame:** Lifetime Aluminum Frame warranty.
- **Defective Parts:** 1-Year coverage for defective parts.
- **Battery:** 3-Year protection for the battery.

9.2 Returns

Enjoy 30-Day Returns from the date of purchase.

9.3 Customer Support

For direct assistance, you can reach the MOONCOOL U.S. Support Team:

- **Phone:** 833-527-1666-MOONCOOL
- **Online:** Message Us Directly on Amazon for order assistance.



Image: Information regarding MOONCOOL's U.S. Support Team, including warranty details for the frame, parts, and battery, along with contact methods.

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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

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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