MOONCOOL P1600161-TK120432OR

MOONCOOL Electric Tricycle User Manual

Model: P1600161-TK120432OR
Brand: MOONCOOL

1. Introduction

Thank you for choosing the MOONCOOL Electric Tricycle. This manual provides essential information for the safe operation, assembly, maintenance, and troubleshooting of your new electric trike. Please read this manual thoroughly before your first ride to ensure proper usage and to maximize the lifespan of your product.

Safety Information

Your MOONCOOL Electric Tricycle is designed with safety in mind and meets rigorous standards. It is certified to UL2849 (Report No. ZKT-2310097631S) and UL2272 (Report No. ZKT-2310318302S) standards, ensuring high levels of electrical and overall safety. Always wear a helmet and appropriate safety gear when riding. Observe all local traffic laws and regulations.

Important Safety Precautions:

- Always perform a pre-ride inspection, checking brakes, tires, and battery level.
- Do not operate the tricycle under the influence of alcohol or drugs.
- Avoid riding in adverse weather conditions, such as heavy rain or snow.
- Ensure all components are securely fastened before each ride.
- Do not exceed the maximum load capacity of 450 lbs.

2. Setup and Assembly

Your MOONCOOL Electric Tricycle arrives approximately 95% pre-assembled to simplify the setup process. While significant portions are pre-assembled, some final assembly steps are required. It is recommended to have proper tools

available for these steps, as the provided basic tools may not be sufficient for all adjustments.



Figure 2.1: Overall view of the MOONCOOL Electric Tricycle, showcasing its robust design and integrated baskets.

Assembly Steps Overview:

1. **Unpacking:** Carefully remove all components from the packaging. Inspect for any shipping damage.
2. **Handlebar Installation:** Attach and secure the handlebars to the stem. Ensure they are aligned and tightened properly.
3. **Front Wheel Installation:** Install the front wheel, ensuring the disc brake rotor is correctly seated within the caliper.
4. **Pedal Installation:** Attach the pedals. Note that pedals are typically marked 'L' for left and 'R' for right and thread in opposite directions.
5. **Seat Post and Seat Installation:** Insert the seat post into the frame and secure the seat. Adjust height for comfort.
6. **Basket Attachment:** Secure the front and rear baskets to their designated mounting points.
7. **Battery Insertion:** Insert the removable battery pack into its compartment and ensure it is locked securely.
8. **Final Checks:** Before riding, double-check all bolts, nuts, and quick releases for tightness. Verify brake function and

tire pressure.

For detailed visual instructions, refer to the assembly guide included in the packaging. If you encounter difficulties, professional assistance from a bike shop is recommended.

3. Operating Instructions

Battery Operation

The tricycle is powered by a 48V 14.5Ah removable battery, providing a range of 35-45 miles per full charge. A full charge typically takes 7-9 hours using the included 54.6V 2A fast charger. The battery features 3-year protection.



Figure 3.1: Removable battery pack.

Motor and Power System

Equipped with a 48V 500W helical motor, the tricycle delivers a peak power of 750W (or 1000W peak power as indicated in some specifications). This motor provides strong torque and smooth acceleration, eliminating startup slippage. The advanced differential system ensures stable power delivery to both rear wheels.



Figure 3.2: Motor and power specifications.

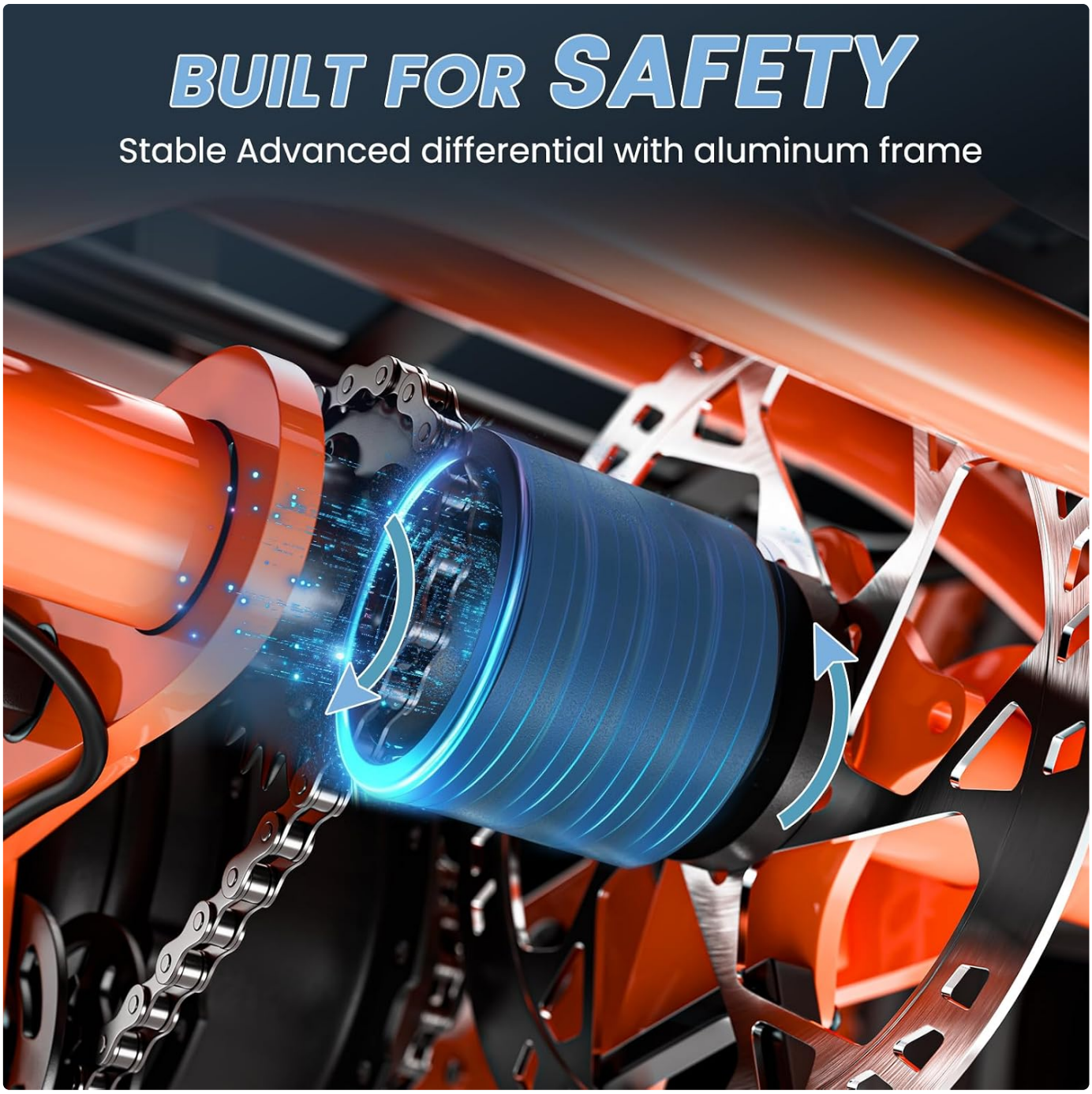


Figure 3.3: Advanced differential system.

LCD Display

The tricycle features a clear LCD display that provides essential riding information, including current speed, battery level, assist level, and odometer readings. Use the buttons on the display to cycle through modes and adjust settings.



Figure 3.4: LCD display unit.

Folding Mechanism

The tricycle features a convenient foldable design for easy portability and storage in small spaces. Consult the assembly guide for specific instructions on how to safely fold and unfold the tricycle.

Baskets and Lighting

Benefit from the spacious front and back baskets for ample storage during your trips. The tricycle is also equipped with dual LED lights for improved visibility during low-light conditions.

4. Maintenance

Regular maintenance is crucial for the longevity and safe operation of your MOONCOOL Electric Tricycle. Perform these checks periodically:

- **Cleaning:** Regularly clean the frame and components with a damp cloth. Avoid using high-pressure water jets directly on electrical components.
- **Battery Care:**
  - Charge the battery fully after each use, especially if it will be stored for an extended period.
  - Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures.
  - If storing for long periods, charge the battery to 50-70% every 2-3 months.
- **Tire Pressure:** Check tire pressure before each ride. The 20-inch tires should be inflated to the recommended PSI indicated on the tire sidewall.
- **Brakes:** Inspect the disc brakes regularly for wear on the pads and rotors. Ensure brake levers provide firm and responsive braking. Adjust or replace as necessary.
- **Frame Inspection:** Periodically inspect the 6061 aluminum frame for any signs of cracks, bends, or damage.
- **Fasteners:** Check all bolts, nuts, and screws for tightness. Loose fasteners can lead to component failure.

5. Troubleshooting

This section addresses common issues you might encounter with your electric tricycle. For problems not listed here, please contact customer support.

Problem	Possible Cause	Solution
Tricycle does not power on	Battery not charged or not properly seated. Power cable loose.	Ensure battery is fully charged and securely inserted. Check all power connections.
Motor not assisting	Low battery. Assist level set to zero. Brake levers engaged.	Charge battery. Increase assist level on display. Ensure brake levers are fully released.
Brakes feel weak	Worn brake pads. Loose brake cable. Air in hydraulic system (if applicable).	Inspect and replace brake pads if worn. Adjust brake cable tension. Consult a professional for hydraulic brake issues.
Unusual noises during operation	Loose components. Lack of lubrication. Debris in drivetrain.	Check all fasteners. Lubricate chain and moving parts. Clean drivetrain.

6. Specifications

Key technical specifications for the MOONCOOL Electric Tricycle:



Figure 6.1: Tricycle dimensions and load capacity.

Feature	Detail
Model Number	P1600161-TK120432OR
Bike Type	Electric Tricycle
Age Range	Adult
Motor	48V 500W Helical Motor (750W Peak Power)
Battery	48V 14.5Ah Removable Battery
Range per Charge	35-45 miles (up to 70 miles as per some visuals)
Full Charge Time	7-9 hours

Feature	Detail
Frame Material	6061 Aluminum
Wheel Size	20 Inches
Brake Type	Disc
Suspension	Front
Load Capacity	450 lbs
Special Features	Foldable, Large Front & Rear Baskets, Dual LED Lights, LCD Display, Advanced Differential
Certifications	UL2849, UL2272

7. Warranty and Support

MOONCOOL stands behind the quality of its products. Your electric tricycle comes with the following warranty coverage:

- **Lifetime Warranty:** Aluminum Frame
- **1-Year Warranty:** Defective Parts
- **3-Year Protection:** Battery

For warranty claims, technical assistance, or any questions regarding your MOONCOOL Electric Tricycle, please contact MOONCOOL customer support. Refer to your purchase documentation for specific contact details or visit the official MOONCOOL website.

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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.

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