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MotoTec MT-FOLD-TRK-700

MotoTec Folding Mobility Electric Trike User Manual

Model: MT-FOLD-TRK-700

1. INTRODUCTION

Welcome to the MotoTec Folding Mobility Electric Trike user manual. This trike is designed for personal mobility, offering a compact, three-wheel design with dual hub motors for efficient and comfortable transportation. Its lightweight aluminum frame and lithium battery provide an extended range and ease of use. Please read this manual thoroughly before operating your trike to ensure safe and optimal performance.

2. SAFETY INFORMATION

WARNING: Proposition 65 Warning: This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Always wear a helmet and appropriate safety gear when operating the trike. Ensure all components are securely fastened before each ride. Do not operate the trike under the influence of alcohol or drugs. Avoid riding in heavy rain or extreme weather conditions. Always adhere to local traffic laws and regulations. Keep hands and feet clear of moving parts. Do not exceed the maximum rider weight of 286 lbs.

3. PRODUCT OVERVIEW

The MotoTec Folding Mobility Electric Trike features a robust design with advanced components for reliable performance.

Key Features:

- Compact folding design for easy transport and storage.
- Durable, lightweight aluminum frame.
- Powerful 700W (Two 350W) dual hub motors for inclines.

- Long-lasting 48V 10Ah Lithium-Ion battery.
- Adjustable handlebar height.
- Three selectable forward speeds (5, 10, 17 mph) and matching reverse speeds.
- Dual drum brakes with parking brake.
- Comfortable seat with backrest.
- Front and rear baskets for storage.
- 10-inch air-filled pneumatic tires for a smooth ride.
- Integrated headlight and rear lights.

Components:



Figure 3.1: Front-side view of the MotoTec Folding Mobility Electric Trike, showcasing its compact design and main components.



Figure 3.2: Front view of the trike, highlighting the headlight and front wheel.



Figure 3.3: Side view of the trike, showing the seat, footrests, and rear wheels.



INCREDIBLY DURABLE

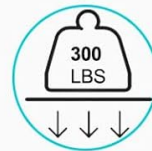
Robust Aluminum Frame



Impact tested



Hardness tested



Capacity Tested

Figure 3.4: Rear view of the trike, displaying the rear lights and dual motors.

Range 20 miles

DOUBLE LONGER THAN YOUR STANDARD LEAD ACID COMPETING MODELS

LITHIUM BATTERY

Weight : 9.7 lbs
Lifetime: 1000 times
Range: 20 miles
Total Range:
20,000 miles

LEAD ACID

Weight:19.4lbs
Lifetime: 500 times
Range: 10 miles
Total Range:
5,000 miles



Figure 3.5: Illustration highlighting the robust and durable aluminum frame construction.

**SOFT SEAT
WITH BACKREST**



COMFORTABLE

**10 INCH AIR FILLED
TIRES**



Figure 3.6: Visual representation of the dual 350W hub motors (700W total) providing strong torque for inclines.

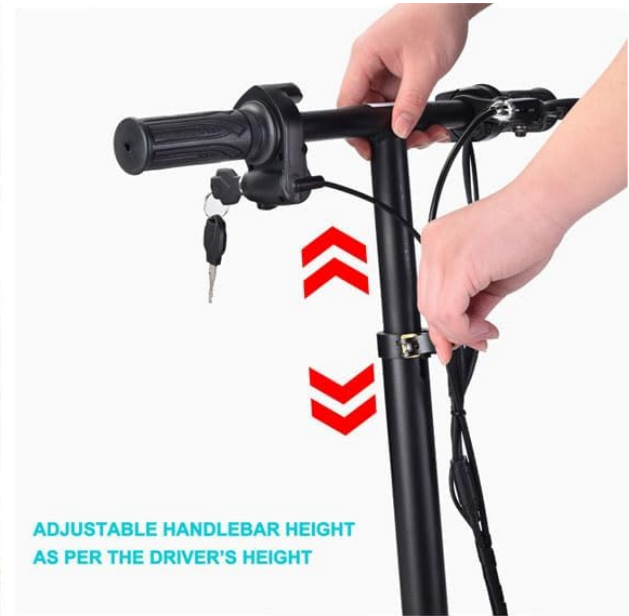
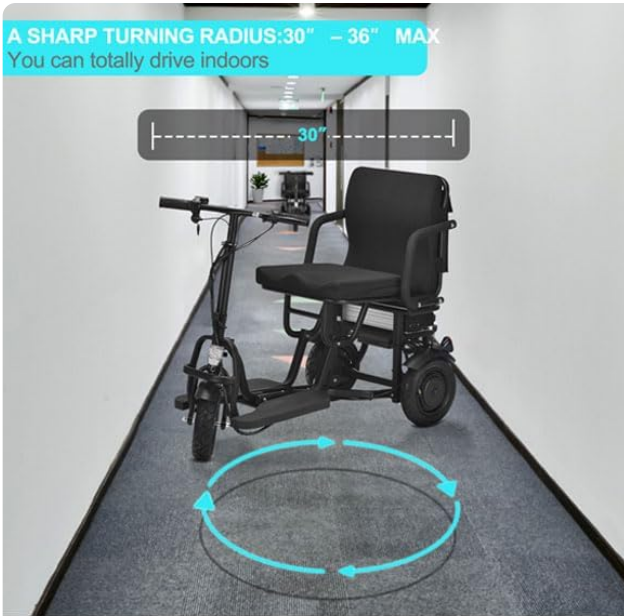


Figure 3.7: Comparison showing the lightweight and extended range benefits of the lithium battery compared to lead-acid models.



Figure 3.8: Close-up of the comfortable seat with backrest and the 10-inch air-filled pneumatic tires.

DOUBLE MOTOR-700W

2 hub motors built into the rear wheels provide amazing torque for riding up inclines



Figure 3.9: Collage illustrating key features: sharp turning radius, adjustable handlebar height, easily removable battery, and the integrated headlight and reflector system.

TRAVEL READY

Light Weight - 62lbs (54lbs without battery)



Figure 3.10: The trike in its folded, compact state, ready for travel or storage.

4. SETUP

4.1. Unpacking and Initial Assembly

Your MotoTec Trike comes mostly pre-assembled. Carefully remove all packaging materials. You will need basic tools (not included) such as Allen wrenches and crescent wrenches for final assembly steps. Follow the included quick-start guide for specific assembly instructions for the handlebars, seat, and baskets.

4.2. Initial Battery Charging

Before first use, fully charge the trike's 48V 10Ah Lithium-Ion battery. The charger is included. Charging typically takes 4-8 hours. The battery can be charged while installed on the trike or removed for charging. Ensure the charger is connected to a standard wall outlet and the trike's charging port.

5. OPERATING INSTRUCTIONS

5.1. Starting the Trike

1. Insert the key into the ignition and turn it to the 'ON' position.
2. Ensure the main battery connection is secure (refer to Troubleshooting if the trike does not power on).
3. The display on the handlebar will illuminate, indicating power is on.

5.2. Speed Control

The trike offers three selectable forward speeds: 5 mph, 10 mph, and 17 mph. There are also matching reverse speeds: 2 mph, 3 mph, and 6 mph. A slow store speed mode is available at 1.5 mph forward and 1 mph reverse. Use the speed selector switch on the handlebar to choose your desired speed setting.

5.3. Braking

The trike is equipped with dual drum brakes on the rear wheels. Apply the brake levers on the handlebars to slow down or stop. A parking brake feature is also available to secure the trike when stationary, especially on inclines.

5.4. Folding and Unfolding

The trike features an easy folding mechanism for portability. Consult the quick-start guide or product diagrams for specific steps on how to safely fold and unfold the trike. Ensure all locking mechanisms are engaged when unfolded for operation and disengaged when folding.

5.5. Handlebar Adjustment

The handlebar height is adjustable to accommodate different rider heights. Loosen the quick-release clamp on the handlebar stem, adjust to the desired height, and securely tighten the clamp before riding.

6. MAINTENANCE

6.1. Battery Care

- Charge the battery regularly, even if not in use, to prolong its lifespan.
- Avoid completely draining the battery before recharging.
- Store the trike and battery in a cool, dry place away from direct sunlight and extreme temperatures.

6.2. Tire Maintenance

The trike uses 10-inch pneumatic tires. Regularly check tire pressure and inflate to the recommended PSI (usually found on the tire sidewall) to ensure optimal performance and prevent flats.

6.3. General Cleaning

Clean the trike with a damp cloth. Avoid using high-pressure water jets directly on electrical components. Keep

the trike free of dirt and debris, especially around moving parts and the motor area.

7. TROUBLESHOOTING

7.1. Trike Does Not Power On

Problem: The trike does not power on after turning the key, even if the battery is charged.

Solution: This is often due to a disconnected or loose main battery cable. Locate the battery compartment, typically under the seat. There is a main power cable that needs to be securely plugged into the battery. Ensure it is firmly seated. Sometimes, this cable is tucked away for shipping and needs to be fully connected before first use.

7.2. Reduced Range or Power

Problem: The trike's range or power seems reduced.

Solution: Ensure the battery is fully charged. Check tire pressure; under-inflated tires can significantly reduce efficiency. Consider rider weight and terrain, as these factors impact range. If issues persist, contact customer support.

7.3. Braking Ineffectiveness

Problem: Brakes feel less effective or require excessive force.

Solution: Inspect the brake cables for any looseness or damage. The drum brakes may require adjustment. It is recommended to have brake adjustments performed by a qualified technician if you are unsure.

8. SPECIFICATIONS

Feature	Specification
Model Name	MotoTec Folding Mobility Trike 700w
Motor	Two 350W Hub Motors (700W Total), Brushless
Battery	48V 10Ah Lithium Ion
Charge Time	4-8 hours
Forward Speeds	5, 10, 17 mph (3 selectable)
Reverse Speeds	2, 3, 6 mph (matching forward speeds)
Slow Store Speed Mode	1.5 mph (Fwd), 1 mph (Rev)
Max Rider Weight	286 lbs
Range Per Charge	10-20 miles (weight/terrain/speed dependent)
Brakes	Dual Drum (with parking brake)
Tires	10 inch Pneumatic

Scooter Size (Unfolded)	42 x 22 x 33 inches (LxWxH)
Folded Size	17 x 22 x 33 inches
Scooter Weight (with battery)	62 lbs
Material	Aluminum
Color	Black
IP Water Rating (Wires)	IP67
IP Water Rating (Battery)	IPX7
IP Water Rating (Motor)	IP66
IP Water Rating (Throttle)	IPX5
IP Water Rating (Brake Lever)	IPX6
IP Water Rating (Switch)	IPX4
IP Water Rating (Controller)	IPX5
IP Water Rating (Front & Rear Lights)	IPX4

9. WARRANTY AND SUPPORT

9.1. Warranty Information

The MotoTec Folding Mobility Electric Trike comes with a **60-day parts replacement warranty**. Please retain your proof of purchase for any warranty claims.

9.2. Customer Support

For technical assistance, parts replacement, or any other inquiries, please contact MotoTec customer support through the retailer where you purchased the product or visit the official MotoTec website for contact information.