

MotoTec MT-FatBoy-500

MotoTec Fatboy 48v 800w Electric Scooter User Manual

Model: MT-FatBoy-500

1. INTRODUCTION

This user manual provides essential information for the safe and efficient operation of your MotoTec Fatboy 48v 800w Electric Scooter. Please read this manual thoroughly before assembly and first use to ensure proper function and to prevent injury.

Safety Information

- The scooter is UL 2272 Certified for electrical safety.
- Recommended age for operation is 13 years and older.
- Maximum weight capacity is 250 lbs (113 kg).
- Always wear appropriate safety gear, including a helmet, knee pads, and elbow pads, when operating the scooter.
- Operate the scooter in safe environments, away from traffic and pedestrians.
- Do not operate under the influence of alcohol or drugs.
- Regularly inspect the scooter for any damage or loose parts before each ride.

2. PACKAGE CONTENTS

Verify that all items are present in the package:

- MotoTec Fatboy Electric Scooter (main unit)
- Charger
- User Manual (this document)
- Assembly Tools (may vary)

3. SETUP AND ASSEMBLY

The MotoTec Fatboy Electric Scooter requires some assembly before first use.

1. **Unpacking:** Carefully remove all components from the packaging. Retain packaging for future transport or storage.

2. **Handlebar Installation:** Attach the handlebars to the steering column. Ensure all bolts are securely tightened.
3. **Seat Installation:** Insert the seat post into the designated slot and adjust to a comfortable height. Secure the seat with the quick-release lever or bolts.
4. **Initial Charge:** Before first use, fully charge the scooter's battery. Connect the charger to the scooter's charging port and then to a standard electrical outlet. The charging time is approximately 4-8 hours. Refer to the "Charging the Battery" section for more details.
5. **Brake Adjustment:** Inspect the front and rear brakes. Ensure they engage smoothly and effectively. If brakes are squeaky or do not engage properly, adjust the tension using the adjustment bolts on the brake levers. Refer to the "Maintenance" section for detailed brake adjustment instructions.
6. **Tire Inspection:** Check the tire pressure. The scooter uses pneumatic tires. Ensure they are adequately inflated according to the recommended pressure (usually found on the tire sidewall).



Figure 3.1: Fully assembled MotoTec Fatboy Electric Scooter.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off

- To power on the scooter, insert the key into the ignition and turn it to the "ON" position.
- To power off, turn the key to the "OFF" position and remove it.

4.2 Riding the Scooter

- **Starting:** With the scooter powered on, gently push off with one foot and then slowly apply the throttle.
- **Speed Selection:** The scooter features 3 selectable speeds: 5 MPH, 10 MPH, and 18 MPH. Use the speed selector switch on the handlebars to choose your desired speed.
- **Braking:** Use the brake levers on the handlebars to slow down or stop. Apply both brakes evenly for stable stopping.
- **Headlight and Horn:** The scooter is equipped with a front LED light for night riding and a horn for signaling. Operate these using the respective switches on the handlebars.
- **Adjusting Seat:** The seat height can be adjusted for rider comfort. Loosen the quick-release lever on the seat post, adjust the height, and then securely fasten the lever.



Figure 4.1: Front view of the scooter, highlighting the headlight and handlebar controls.

4.3 Charging the Battery

- Ensure the scooter is powered off before charging.
- Locate the charging port on the scooter.
- Connect the charger to the charging port, then plug the charger into a standard electrical outlet.
- The charger indicator light will typically show red during charging and turn green when fully charged.
- Charging time is approximately 4-8 hours. Do not overcharge the battery.
- A full charge provides a range of 5-15 miles, depending on rider weight, terrain, and speed.

5. MAINTENANCE

5.1 Battery Care

- The battery has a life of over 250 charges.
- To prolong battery life, avoid completely draining the battery before recharging.
- Store the scooter in a cool, dry place when not in use, and ensure the battery is partially charged if storing for extended periods.

5.2 Tire Maintenance

- Regularly check the pressure of the pneumatic tires. Maintain the recommended pressure for optimal performance and safety.
- Inspect tires for wear, punctures, or damage before each ride.

5.3 Brake Adjustment

If the brakes squeak, feel loose, or drag, they may require adjustment.

1. Locate the two adjustment bolts with springs on the brake levers.
2. Adjust these bolts incrementally, tightening or loosening, until the wheel spins freely without resistance or noise when the brake is not applied.
3. Test the brakes to ensure they engage firmly and stop the scooter effectively.



Figure 5.1: Rear view of the scooter, showing the rear wheel and disc brake assembly.

5.4 General Cleaning

Clean the scooter with a damp cloth. Avoid using harsh chemicals or excessive water, especially near electrical components.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Scooter does not power on	Battery is discharged; Key not in "ON" position; Loose electrical connection.	Charge the battery; Ensure key is fully turned to "ON"; Check all visible connections.
Reduced range or power	Low battery charge; Under-inflated tires; Rider weight exceeds limit; Steep terrain.	Fully charge battery; Inflate tires to recommended pressure; Ensure rider weight is within limits.

Problem	Possible Cause	Solution
Brakes squeak or drag	Brake pads misaligned or worn; Brake cable tension incorrect.	Adjust brake pads and cable tension as described in the "Maintenance" section.
Charger light remains green when connected to a low battery	Faulty charger; Deeply discharged battery; Internal fuse issue.	Ensure charger is properly connected; Contact customer support if problem persists.

7. SPECIFICATIONS

Feature	Detail
Brand	SAY YEAH (Manufactured by MotoTec)
Model Name	MT-FatBoy-500
Motor Power	800 Watt 48v Hub Motor
Battery	Four 12v 12ah Batteries (48v total)
Max Weight Capacity	250 lbs (113 kg)
Recommended Age	13+
Charger Included	Yes
Battery Life	Over 250 charges
Speed Settings	5, 10, 18 MPH (3 selectable speeds)
Range Per Charge	5-15 Miles (weight dependent)
Recharge Time	4-8 hours
Climbing Ability	10 Degrees
Seat Type	Wide Saddle
Seat Height from Ground	32 inches (81 cm)
Handlebar Height from Ground	41 inches (104 cm)
Handlebar Width	30 inches (76 cm)
Scooter Length	54 inches (137 cm)
Front Wheel	15x6.00-6 air filled tires
Rear Wheel	15x6.00-8 air filled tires
Ground Clearance	3 inches (7.6 cm)
Scooter Size (LxWxH)	54x11x41 inches (137x28x104 cm)
Item Weight	101 lbs (45.8 kg)
UL Certification	UL 2272 Certified

8. WARRANTY AND SUPPORT

8.1 Warranty Information

The MotoTec Fatboy Electric Scooter comes with a **30-day parts replacement warranty**. This warranty covers manufacturing defects and component failures under normal use within 30 days from the date of purchase. It does not cover damage due to misuse, accidents, or unauthorized modifications.

8.2 Customer Support

For technical assistance, warranty claims, or inquiries regarding replacement parts, please contact the seller or manufacturer directly. Refer to your purchase documentation for specific contact details.

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