L-faster 60V2500W

L-faster 60V 2500W 11-inch Brushless Hub Motor Wheel User Manual

Brand: L-faster | Model: 60V2500W

1. Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of your L-faster 60V 2500W 11-inch Brushless Hub Motor Wheel. Please read all instructions carefully before use to ensure proper function and longevity of the product.

2. Product Specifications

The L-faster 60V 2500W 11-inch Brushless Hub Motor Wheel is designed for electric off-road scooters, offering robust performance and durability.

Specification	Value
Voltage	60V
Output Power	2500W
Motor Type	Brushless Gearless Hub Motor
Max Speed	100 km/h
Tire Size (Recommended)	90/65-6.5
Tire Diameter (Recommended)	280mm
Tire Width (Recommended)	87mm
Rim Size	11 inches
Material	Aluminum
Vehicle Service Type	Scooter

Included Components: One 60V 2500W Hub Motor Wheel (tire not included).

3. Setup and Installation

Proper installation is crucial for the performance and safety of your hub motor. It is recommended that installation be performed by a qualified technician.

3.1 Safety Precautions

- Always disconnect the battery before beginning any installation or maintenance.
- Wear appropriate personal protective equipment, including gloves and eye protection.
- Ensure the scooter is stable and secured during installation to prevent accidental movement.
- Refer to your scooter's frame manual for specific mounting points and torque specifications.

3.2 Installation Steps

1. **Prepare the Scooter:** Place the scooter on a stand or secure it to allow the wheel to be freely removed and installed. Remove the existing wheel if applicable.
2. **Inspect the Motor:** Carefully unbox the L-faster 60V 2500W hub motor wheel and inspect it for any signs of damage.



Figure 1: The L-faster 60V 2500W 11-inch Brushless Hub Motor Wheel, shown without a tire.

3. **Mount the Tire (if applicable):** If your motor wheel is supplied without a tire, mount a compatible 90/65-6.5 tire onto the rim. Ensure the tire is seated correctly and inflated to the manufacturer's recommended pressure.
4. **Install the Motor Wheel:** Carefully align the motor wheel with the scooter's fork or swingarm. The 'open size' or axle width is critical for proper fitment.



Figure 2: Side view of the hub motor, illustrating the critical 'open size' dimension for installation.

5. **Secure the Axle:** Insert the axle into the dropouts and secure it with the provided nuts and washers. Tighten the axle nuts to the torque specifications provided by your scooter manufacturer. Overtightening or undertightening can lead to damage or unsafe operation.
6. **Connect Wiring:** Connect the motor's power cables and hall sensor wires to your scooter's controller. Ensure all connections are secure and correctly matched (e.g., phase wires, hall sensor wires). Incorrect wiring can damage the motor or controller.



Figure 3: Detailed view of the motor's wiring connections, showing the power and sensor cables.

7. **Cable Management:** Route all cables safely, ensuring they are not pinched, stretched, or exposed to moving parts. Use cable ties to secure them.
8. **Final Check:** Before reconnecting the battery, double-check all connections, ensure the wheel spins freely without rubbing, and that all fasteners are tightened.

4. Operating Instructions

Once the motor wheel is correctly installed and connected, follow these guidelines for safe operation.

4.1 Pre-Ride Checks

- Verify that all electrical connections are secure.
- Check tire pressure (if applicable) and ensure tires are in good condition.
- Test brakes for proper function.
- Ensure the throttle operates smoothly and returns to the off position.

4.2 General Operation

- Start slowly and gradually increase speed.
- Avoid sudden acceleration or braking, especially on loose or uneven surfaces.

- Be aware of your surroundings and ride defensively.
- Do not exceed the maximum speed rating of your scooter or the motor.
- Avoid operating the motor in deep water or extreme weather conditions to prevent damage.



Figure 4: An 11-inch hub motor integrated into an off-road scooter wheel, demonstrating its intended application.

5. Maintenance

Regular maintenance helps ensure the longevity and optimal performance of your hub motor.

- **Cleaning:** Keep the motor and surrounding areas clean from dirt, dust, and debris. Use a damp cloth; avoid high-pressure washing directly on the motor or electrical components.
- **Cable Inspection:** Periodically check all electrical cables for wear, fraying, or damage. Ensure connections remain tight.
- **Fastener Check:** Regularly inspect all bolts and nuts, especially those securing the motor axle, to ensure they are properly tightened.

- **Bearing Check:** Listen for unusual noises from the motor. If you hear grinding or excessive friction, the bearings may need inspection or replacement by a professional.
- **Tire Condition (if applicable):** If a tire is mounted, regularly check its pressure and for any signs of wear or damage.

6. Troubleshooting

This section addresses common issues you might encounter with your hub motor. For complex problems, consult a qualified technician.

6.1 Motor Not Functioning

- **Check Battery:** Ensure the scooter's battery is charged and properly connected.
- **Check Controller:** Verify that the scooter's controller is receiving power and functioning correctly.
- **Inspect Wiring:** Ensure all motor phase wires and hall sensor wires are securely connected to the controller and are not damaged.
- **Throttle Check:** Confirm the throttle is working and sending a signal to the controller.

6.2 Reduced Performance or Unusual Noise

- **Overheating:** If the motor feels excessively hot, allow it to cool down. Continuous overheating can indicate an issue with the controller, battery, or motor.
- **Loose Connections:** Re-check all electrical connections for tightness.
- **Bearing Wear:** Unusual grinding or squealing noises may indicate worn motor bearings. Professional inspection is recommended.
- **Tire Issues (if applicable):** Low tire pressure or a damaged tire can affect performance and create noise.

7. Warranty Information

This product is sold without a manufacturer's warranty. Please refer to your point of purchase for any return or exchange policies.

8. Support

For technical assistance or further inquiries regarding the L-faster 60V 2500W 11-inch Brushless Hub Motor Wheel, please contact the seller or distributor from whom you purchased the product. Provide your purchase details and a clear description of the issue for efficient support.

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.

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