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> L-faster 36V350W 10-inch Off-Road Wheelbarrow Scooter Gear Hub Motor User Manual

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Brand: L-faster | Model: 36V350W

1. PRODUCT OVERVIEW

This manual provides instructions for the L-faster 36V350W 10-inch Off-Road Wheelbarrow Scooter Gear Hub Motor kit. This kit is designed for DIY electric wheelbarrows, scooters, and similar applications, offering high torque and good climbing capacity for rough terrains such as grass, sand, soil, and water-covered roads.



Figure 1.1: The L-faster 10-inch Off-Road Gear Hub Motor. This image displays the complete motor wheel assembly with its robust off-road tire, ready for integration into an electric wheelbarrow or scooter system.

2. WHAT'S INCLUDED

The L-faster 36V350W kit includes the following components:

- 1x 10-inch 350W Brushless Geared Hub Motor (with tire)
- 1x Motor Controller
- 1x Key Throttle (with battery indicator lights and button switch)
- 1x Dual Button Switch (for electric brake and cruise control)
- 1x Accessory Bag

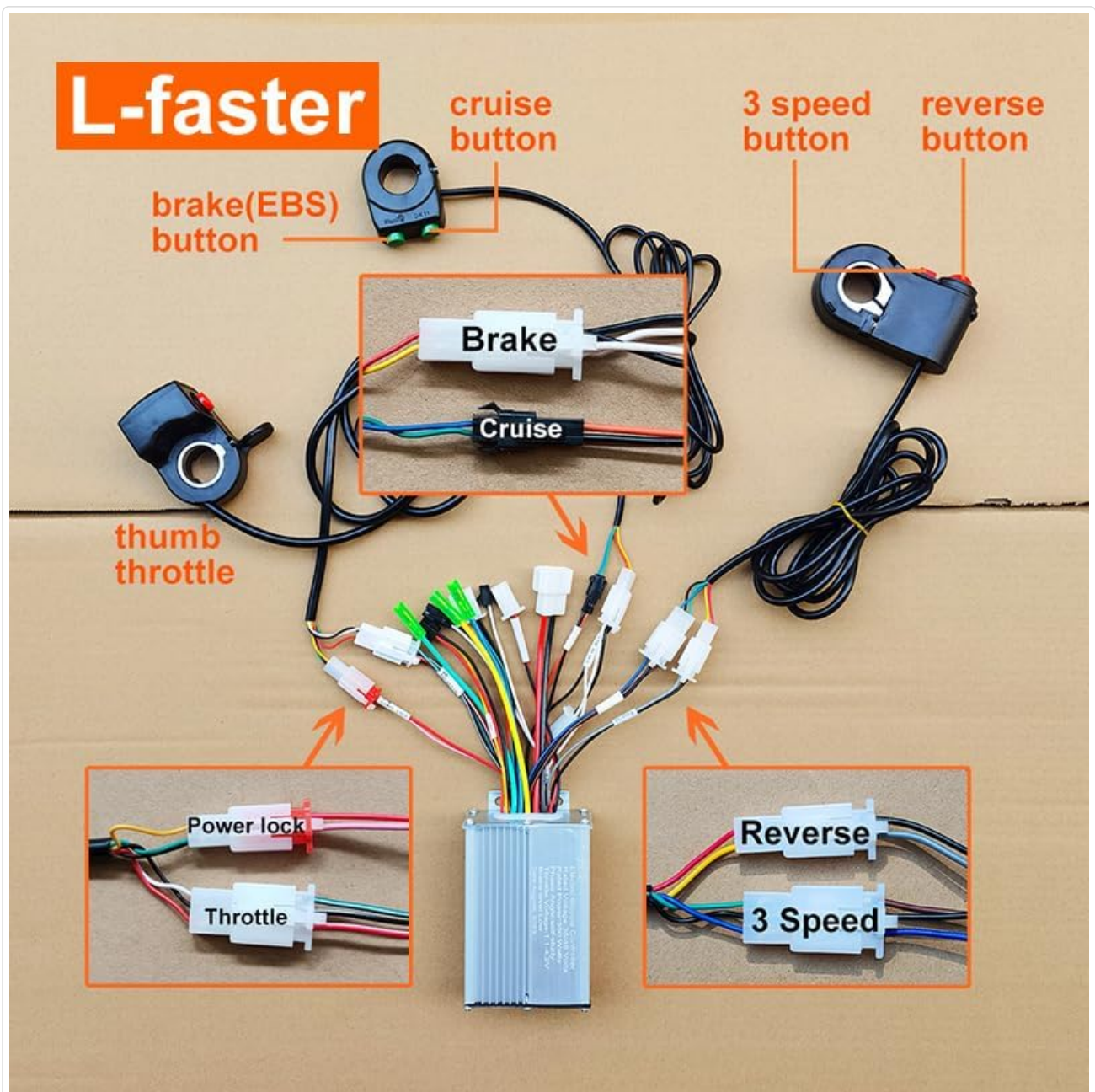


Figure 2.1: Overview of the motor kit components and their wiring connections. This image illustrates the motor, controller, throttle, and various switches, showing how they connect to form the complete system.

3. KEY FEATURES

- **Versatile Application:** Suitable for electric trolleys, electric wheelbarrows, and similar DIY projects.
- **Efficient Performance:** Operates with small current, ensuring high efficiency and extended working distance.
- **Maintenance-Free Design:** Features a planetary gear system that requires no maintenance.
- **Integrated Controls:** Includes an electric brake button switch and a cruise control button switch for enhanced usability.
- **Off-Road Capability:** High torque geared hub motor specifically designed for challenging terrains like grass, sand, soil, and water-covered paths.
- **Strong Climbing Capacity:** Engineered to provide excellent performance on inclines.

4. SETUP AND INSTALLATION

Before initial use, ensure the following steps are completed:

1. **Tire Inflation:** The motor wheel is shipped without air. Inflate the tire to the recommended pressure before use.
2. **Component Connection:** Connect the motor, controller, throttle, and switches according to the wiring diagram provided (refer to Figure 2.1 and Figure 4.1). Ensure all connections are secure.
3. **Battery and Charger:** This kit does not include a battery or battery charger. These must be acquired separately and connected appropriately to power the system.



Figure 4.1: Detailed view of individual wiring connectors. This image helps identify the specific plugs for battery, motor, power lock, throttle, 3-speed, brake (EBS), cruise, reverse, reset, PAS, and headlight connections.



Figure 4.2: Key dimensions of the L-faster motor wheel. This diagram shows the overall diameter (280mm), tire width (80mm), and axle open size (130mm), along with the weight (4.6kg), which are crucial for installation planning.

5. OPERATING INSTRUCTIONS

Familiarize yourself with the controls for safe and effective operation:

- **Key Throttle:** Use the key throttle to control the motor speed. Turn the key to power on the system, then twist the throttle to accelerate.
- **Battery Indicator:** The key throttle includes indicator lights to show the battery charge level (Full, Half, Empty).
- **Electric Brake (EBS) Button:** Press this button to engage the electric brake for controlled deceleration.
- **Cruise Control Button:** Activate cruise control by pressing this button to maintain a constant speed.
- **3-Speed Button:** Use this button to cycle through different speed modes (e.g., low, medium, high).
- **Reverse Button:** Press the reverse button to engage the motor in reverse direction.

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Video 5.1: Demonstration of the L-faster 10x4.00-6 motor in operation. This video illustrates the motor's functionality, including acceleration and the use of the reverse feature, providing a visual guide to its controls.



Figure 5.1: Close-up of the key throttle with integrated battery indicator lights. This image shows the 'FULL', 'HALF', and 'EMPTY' indicators, allowing users to monitor the battery status during operation.

6. MAINTENANCE

The L-faster geared hub motor is designed for minimal maintenance. Its planetary gear system is engineered to be maintenance-free, reducing the need for regular servicing. Periodically inspect the tire for wear and proper inflation, and ensure all electrical connections remain secure and free from corrosion.

7. TROUBLESHOOTING

If you encounter issues with your L-faster motor kit, consider the following basic troubleshooting steps:

- **No Power:** Check battery connections and ensure the battery is charged. Verify the key throttle is turned on.
- **Motor Not Spinning:** Inspect all wiring connections to the motor and controller for looseness or damage. Ensure the throttle is functioning correctly.
- **Intermittent Operation:** Check for loose connections or potential short circuits. Ensure the controller is not overheating.
- **Unusual Noises:** Discontinue use immediately and inspect the motor for any obstructions or signs of internal damage.

For persistent issues, consult a qualified technician or contact L-faster customer support.

8. SPECIFICATIONS

Specification	Detail
Model	36V350W
Brand	L-faster
Wheel Size	10 Inches
Material	Aluminum
Rim Size	10 Inches
Item Weight	6 Kilograms
Item Diameter	10 Inches
Vehicle Service Type	Scooter
OEM Part Number	24V350W
Color	350W Off road Rough Tyre
Material Type	Aluminum
Compatible with Vehicle Type	Scooter
Manufacturer	L-faster
Manufacturer Part Number	24V350W
Item Type Name	350W Off road Rough Tyre 10 inch wheel Electric Wheelbarrow Scooter Gear Hub Motor kit

L-faster

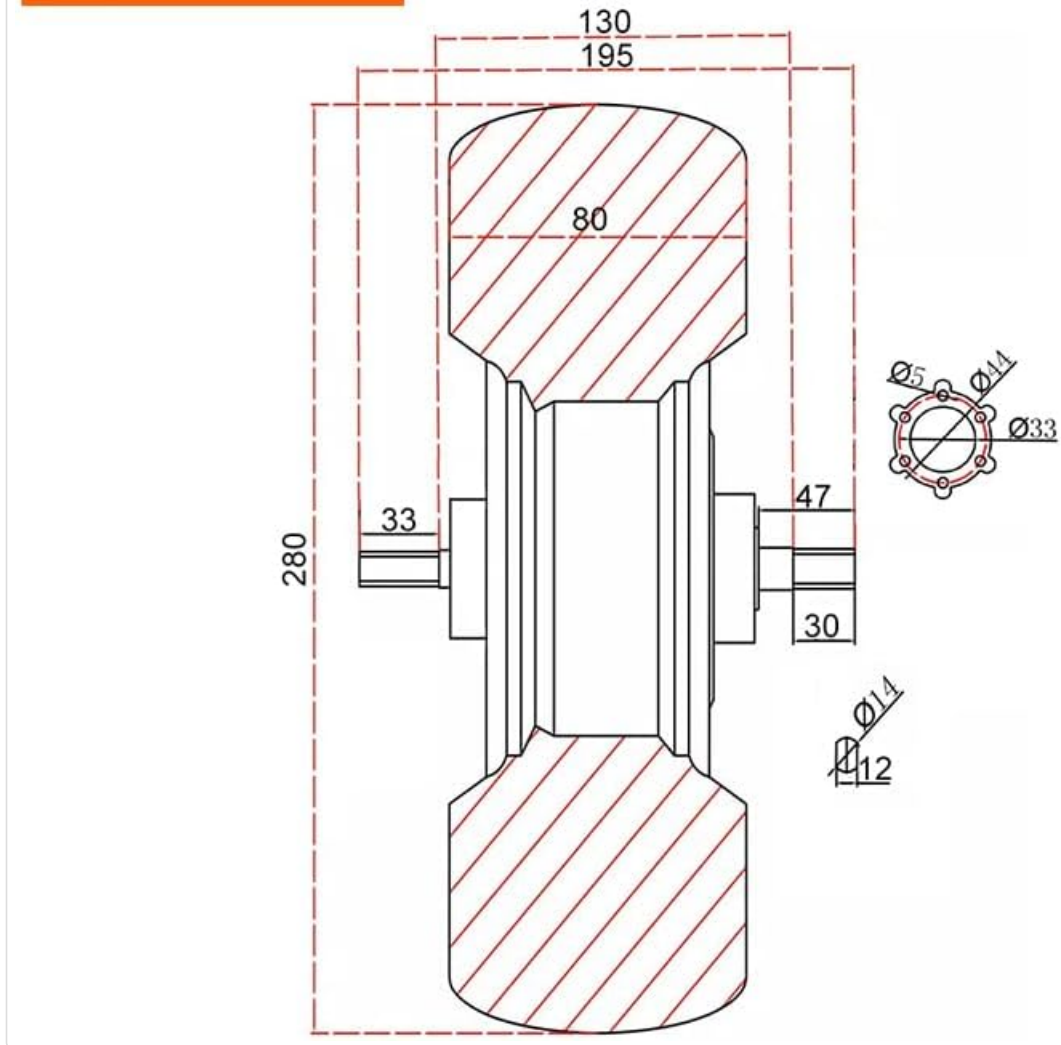


Figure 8.1: Technical drawing providing detailed measurements and cross-sectional views of the motor wheel. This diagram is useful for precise integration and understanding the physical characteristics of the motor.

9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the purchase documentation or contact your retailer. L-faster strives to provide reliable products and assistance for any inquiries or issues you may encounter.