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Generic 48V Electric Scooter Twist-Throttle Handle with Display User Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Generic 48V Twist-Throttle Handle with Display. Please read this manual thoroughly before use to ensure proper function and safety. This product is designed for use with 36V and 48V electric bikes, scooters, motorcycles, and tricycles.

2. PRODUCT OVERVIEW

The Generic 48V Twist-Throttle Handle is a control unit for electric vehicles, featuring a twist-grip throttle, an integrated display, and a key lock start button. It is constructed from durable ABS and rubber materials, designed for reliable performance.



Figure 2.1: The complete Generic 48V Twist-Throttle Handle with Display, including the main throttle unit, a matching grip for the opposite handlebar, and an electric bicycle in the background for context.

Key features include:

- **Real-time Voltage Display:** Allows for accurate monitoring of battery charge levels.
- **6-Pin Interface:** Ensures secure and protected electrical connections.
- **Key Lock Start Button:** Provides a convenient and secure method to power on/off the vehicle.
- **Durable Construction:** Made from ABS and rubber for longevity and comfort.
- **Wide Compatibility:** Suitable for 36V and 48V systems on various electric vehicles with 7/8 inch (22mm) handlebars.



Waterproof and Reliable

6-pin waterproof interface adds an extra layer of protection.

Figure 2.2: The throttle handle installed on an electric scooter, demonstrating its waterproof design and reliability in various weather conditions.

3. SETUP AND INSTALLATION

Before installation, ensure your vehicle's power is off and the battery is disconnected. This throttle is designed for 7/8 inch (22mm) handlebars.

3.1. Compatibility Check

Verify that your electric vehicle (bike, scooter, motorcycle, tricycle) operates on a 36V or 48V system and has 7/8 inch (22mm) diameter handlebars.



Support 36V and 48V, With its 7/8 inch (22mm) application, it fits perfectly on all scooter twists and E-bikes

Figure 3.1: A visual representation of the throttle's compatibility with different electric vehicles, including an e-bike, scooter, and tricycle.

3.2. Installation Steps

1. **Remove Existing Grips:** Carefully remove the old throttle and grip from your handlebar.
2. **Mount New Grips:** Slide the new twist-throttle handle onto the right side of the handlebar and the matching grip onto the left side. Secure them firmly.
3. **Connect Wiring:** The throttle unit features a 6-pin interface. Connect this to the corresponding wiring harness on your electric vehicle. Ensure all connections are secure and correctly aligned. The yellow wire typically functions as a door lock for added security.
4. **Test Functionality:** Reconnect the battery and power on your vehicle. Test the throttle response, display functionality, and key lock operation before riding.

3.3. Installation Video Guide

For a visual guide on the components and installation process, please refer to the following videos:

Video 3.1: An overview of the throttle handle grips, showing the components, cable length, and the key lock mechanism. This video provides a good introduction to the product's physical aspects.

Video 3.2: A demonstration of the e-bike throttle installation, illustrating how the unit is mounted and connected to the vehicle.

4. OPERATION

4.1. Powering On/Off

Insert the key into the key lock on the throttle unit and turn it to the 'ON' position to power on your electric vehicle. Turn the key to the 'OFF' position to power off.

4.2. Using the Twist-Throttle

Gently twist the throttle grip towards you to accelerate. Release the grip to decelerate. Always operate the throttle smoothly to maintain control of your vehicle.

4.3. Real-time Voltage Display

The integrated display provides a real-time voltage reading, allowing you to monitor your battery's charge level. This helps in planning your trips and understanding the overall health of your lithium battery.



Figure 4.1: The digital display on the throttle unit, indicating the current battery voltage and charge status while in use on an electric bicycle.

4.4. Security Feature (Yellow Wire)

The yellow wire included in the wiring harness serves as a door lock function, providing an additional layer of security for your vehicle when properly connected.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your throttle handle.

- **Cleaning:** Wipe the throttle and display with a soft, damp cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically check all wiring connections for tightness and signs of wear or damage. Ensure the throttle twists smoothly without sticking.
- **Storage:** When not in use for extended periods, store the vehicle in a dry, cool place, protected from direct sunlight and extreme temperatures.

6. TROUBLESHOOTING

If you encounter issues with your throttle handle, refer to the following common problems and solutions:

- **Throttle Not Responding:**
 - Ensure the key is in the 'ON' position.
 - Check all 6-pin connections to ensure they are secure and properly seated.
 - Verify that your vehicle's battery is charged and properly connected.
 - Inspect the wiring for any visible damage or breaks.
- **Display Not Working:**
 - Confirm the vehicle is powered on.
 - Check the wiring connections to the display unit.
 - Ensure the battery has sufficient charge.
- **Incorrect Fit on Handlebar:**
 - This throttle is designed for 7/8 inch (22mm) handlebars. Confirm your handlebar diameter. If it does not match, the product may not be compatible.

If problems persist after attempting these solutions, please contact customer support.

7. SPECIFICATIONS



Figure 7.1: Detailed dimensions of the throttle handle unit, measured in centimeters.

| Feature | Detail |
|-----------------------|---|
| Brand | Generic |
| Model Number | 9BU608257YKL27HY211TI7RYAE3 |
| Vehicle Service Type | Bicycle, Scooter, Motorcycle, Tricycle |
| Handlebar Diameter | 7/8 inch (22mm) |
| Voltage Compatibility | 36V, 48V |
| Interface Type | 6-Pin |
| Material | Acrylonitrile Butadiene Styrene (ABS), Rubber |
| Item Weight | 216 Grams |
| Number of Items | 2 (Throttle unit + separate grip) |

8. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the product packaging or contact the retailer from whom you purchased this product. Keep your purchase receipt as proof of purchase.