

Haofy Haofyerzs465g7n-02

Haofy Electric Throttle with Key KH DX User Manual

Model: Haofyerzs465g7n-02

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Haofy Electric Throttle with Key KH DX. This universal twist grip throttle is designed for electric bikes, scooters, and other electric vehicles, featuring a digital LED display for battery voltage and a 3-speed control function.

2. PRODUCT FEATURES

- **Universal Compatibility:** Designed for electric bikes and scooters (12V-84V), with automatic voltage identification.
- **Accurate Battery Display:** Digital data display shows real-time voltage, allowing precise determination of remaining battery charge and assessment of battery quality.
- **3-Speed Control:** Integrated switch for High, Medium, and Low-speed settings (requires compatible controller).
- **Integrated Key:** Provides security and control over vehicle power.
- **Comfortable Design:** Ergonomic twist grip for comfortable and intuitive control.
- **Error Indication:** The digital display can indicate vehicle errors based on voltage readings.

3. PACKAGE CONTENTS

- 1 x Right-hand Twist Throttle Grip with Key and LED Display
- 1 x Left-hand Handle Grip
- 1 x 1.8m Wiring Harness

4. SPECIFICATIONS

Material	Aluminum Alloy + Rubber
Color	Silver (other colors may be available)
Cable Length	1.8 meters (approx. 70.9 inches)

Throttle Type	Twist Grip with 3-speed switch
Compatibility	12V-99V Electric Bicycles, Scooters, Tricycles, and other Electric Vehicles
Mounting Diameter	22.2 mm handlebar
Operating Voltage (Throttle)	DC 0.8-4.2V
Operating Voltage (Battery Indicator)	12-84V (automatic identification)
Battery Application	Lithium, Lead-acid, Water, Dry batteries
Model Number	Haofyerzs465g7n-02
Product Dimensions (Packaging)	20 x 14 x 6 cm
Product Weight	302 grams

5. SAFETY INFORMATION

- Always ensure the vehicle is powered off before installation or maintenance.
- Professional installation is recommended if you are unfamiliar with electrical wiring.
- Ensure all connections are secure and properly insulated to prevent short circuits.
- Do not modify the throttle or wiring, as this may void the warranty and create safety hazards.
- Always wear appropriate safety gear when operating an electric vehicle.
- Regularly check the throttle for any signs of wear or damage.

6. INSTALLATION



Image: Haofy Electric Throttle assembly, including the right-hand twist grip with integrated key and LED display, and the left-hand grip. The wiring harness is visible, connecting to the main throttle unit.

1. **Prepare the Handlebar:** Ensure the handlebar diameter is 22.2 mm. Remove any existing grips or accessories from the right side of the handlebar.
2. **Mount the Grips:**
 - Slide the left-hand handle grip onto the left side of the handlebar.
 - Slide the right-hand twist throttle grip onto the right side of the handlebar. Ensure it is positioned comfortably for operation and does not interfere with braking or other controls.
3. **Wiring Connections:** The throttle unit has a 7-wire harness. Connect these wires to your electric vehicle's controller and battery system according to the following scheme. **It is crucial to match these connections correctly to avoid damage to the throttle or vehicle.**
 - **Yellow Wire:** Connect to the positive power supply of your battery (e.g., +24V, +36V, +48V).
 - **Red Wire:** Connect to the throttle's positive +5V input.
 - **Green Wire:** Connect to the throttle's signal cable input.
 - **Black Wire:** Connect to the throttle's negative ground.
 - **White, Blue, Brown Wires:** These three wires are for the 3-speed gear control. Connect them to the corresponding 3-speed input wires on your vehicle's controller. *Note: Your controller must support 3-speed functionality for this feature to work.*
4. **Secure Connections:** After making all connections, ensure they are tight and properly insulated with electrical tape or heat shrink tubing to prevent moisture ingress and short circuits.
5. **Test Functionality:** Before riding, perform a static test to ensure the throttle, LED display, and 3-speed functions (if applicable) are working correctly.

7. OPERATION

1. **Power On:** Insert the key into the throttle and turn it to the "ON" position to power on your electric vehicle.

The LED display will illuminate, showing the current battery voltage.

2. **Battery Level Monitoring:** The digital display shows the real-time voltage. Refer to your vehicle's battery specifications to understand the voltage range corresponding to full and empty charge levels. This allows you to accurately determine the remaining battery capacity.
3. **Acceleration:** Gently twist the right-hand grip towards you to accelerate. Release the grip to decelerate.
4. **3-Speed Control:** If your controller supports it, use the integrated 3-speed switch (if present on your model) to select between High, Medium, and Low-speed modes.
5. **Power Off:** Turn the key to the "OFF" position to power off the vehicle.

8. MAINTENANCE

- **Cleaning:** Wipe the throttle and grips with a soft, damp cloth. Avoid using abrasive cleaners or solvents.
- **Connection Check:** Periodically inspect all wiring connections for looseness, corrosion, or damage. Ensure they remain secure and insulated.
- **Functionality Check:** Regularly test the throttle's smooth operation, the accuracy of the LED display, and the functionality of the 3-speed switch.
- **Storage:** When not in use for extended periods, store the vehicle in a dry, cool place.

9. TROUBLESHOOTING

- **Throttle Not Responding:**
 - Check all wiring connections, especially the red, green, and black throttle wires.
 - Ensure the battery is charged and connected correctly.
 - Verify the key is in the "ON" position.
 - Check for any error codes displayed on the LED screen and consult your vehicle's main controller manual.
- **LED Display Not Working:**
 - Check the yellow power wire connection.
 - Ensure the vehicle's battery has sufficient charge.
- **Inaccurate Battery Reading:**
 - Ensure the throttle is correctly identifying the battery voltage (12-84V auto-identification).
 - The display shows voltage; refer to your battery's voltage-to-charge percentage chart for accurate interpretation.
- **3-Speed Function Not Working:**
 - Confirm that your electric vehicle's controller supports 3-speed functionality and that the white, blue, and brown wires are correctly connected.
 - Check the connections of the 3-speed wires.

10. WARRANTY AND SUPPORT

Specific warranty details for the Haofy Electric Throttle with Key KH DX are not provided in this manual. For warranty claims, technical support, or replacement parts, please contact the retailer or manufacturer directly. Keep your purchase receipt as proof of purchase.

