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> GOSEN E-Bike Controller User Manual

GOSEN Q7 48V Metal Brushless Controller

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Model: Q7 48V Metal Brushless Controller

INTRODUCTION

This manual provides comprehensive instructions for the GOSEN 48V 22A E-Bike Controller. This controller is specifically designed to enhance the performance and control of your GOSEN Q7 electric bicycle. It ensures smooth and efficient power delivery to the motor, contributing to a reliable and secure riding experience.

Compatibility: This controller is exclusively suitable for the GOSEN Q7 electric bicycle.

SETUP AND INSTALLATION

The GOSEN E-Bike Controller is designed for straightforward installation. Proper connection of all wires is crucial for safe and optimal operation. Refer to the image below for a visual reference of the controller and its various connectors.



Figure 1: GOSEN 48V 22A E-Bike Controller. This image displays the black rectangular controller unit with a bundle of multi-colored wires extending from one end, each terminating in a distinct connector. These connectors are designed for various functions, including motor, battery, display, and sensor connections on the electric bicycle.

Installation Steps:

1. **Preparation:** Ensure the e-bike's power is completely off and the battery is disconnected before beginning installation.
2. **Mounting:** Securely mount the controller in a protected location on the e-bike, typically within the frame or a dedicated compartment, ensuring it is safe from water and physical damage.
3. **Wire Connection:** Carefully connect each wire from the controller to its corresponding component on the e-bike (e.g., motor, battery, throttle, brake levers, display, pedal assist sensor). Refer to your GOSEN Q7 e-bike's wiring diagram for precise connections. Pay close attention to color coding and connector types.
4. **Secure Connections:** Ensure all connections are firm and properly seated to prevent loose contacts or short circuits.
5. **Cable Management:** Organize and secure all cables to prevent them from snagging or interfering with moving parts.
6. **Final Check:** Before reconnecting the battery, double-check all connections for correctness and security.

OPERATION

Once properly installed, the GOSEN E-Bike Controller manages the power flow from the battery to the motor, translating your input (throttle, pedal assist) into motor output. Its precise design ensures smooth and efficient control, providing a powerful and responsive riding experience.

- **Power On:** Turn on your e-bike's main power switch. The controller will initialize.
- **Throttle/PAS:** Engage the throttle or begin pedaling with the pedal assist system (PAS) to activate the motor. The controller will regulate power based on your input and the selected assist level.
- **Braking:** The controller is designed to cut power to the motor when brake levers are engaged, enhancing safety.

MAINTENANCE

Regular maintenance helps ensure the longevity and reliable performance of your E-Bike Controller.

- **Keep Dry:** Protect the controller from water and excessive moisture. While designed for outdoor use, prolonged exposure to heavy rain or submersion can cause damage.
- **Cleanliness:** Periodically clean the exterior of the controller with a soft, dry cloth to remove dust and dirt. Do not use harsh chemicals or abrasive cleaners.
- **Inspect Connections:** Regularly check all wire connections to ensure they are secure and free from corrosion or damage. Loose connections can lead to intermittent performance or component failure.
- **Avoid Physical Damage:** Protect the controller from impacts or drops.

TROUBLESHOOTING

If you encounter issues with your GOSEN E-Bike Controller, consider the following common troubleshooting steps:

- **No Power:**
 - Check the e-bike's main power switch and ensure it is in the ON position.
 - Verify that the battery is fully charged and properly connected to the controller.
 - Inspect the battery and controller power cables for any visible damage or loose connections.
- **Motor Not Responding:**
 - Ensure the throttle or pedal assist sensor is correctly connected and functioning.
 - Check the motor phase wires and Hall sensor wires for secure connections.
 - Verify that the brake cut-off sensors are not stuck in the engaged position.
- **Intermittent Operation:**
 - Inspect all connectors for looseness or corrosion.
 - Ensure the controller is not overheating (though this model is metal for heat dissipation).

If the issue persists after performing these checks, it is recommended to contact GOSEN customer support or a qualified e-bike technician for further assistance.

SPECIFICATIONS

Feature	Detail
Brand	GOSEN
Model Compatibility	GOSEN Q7 Electric Bicycle
Voltage	48 Volts
Current	22A (as per product description)
Type	Metal Brushless Controller
Manufacturer	Guangzhou Gedesheng Electric Vehicle Co., Ltd.
First Available Date	June 26, 2023

WARRANTY AND SUPPORT

Specific warranty details for the GOSEN E-Bike Controller are not provided in the product information. For warranty claims, technical support, or any inquiries regarding your controller, please contact the manufacturer, Guangzhou Gedesheng Electric Vehicle Co., Ltd., or the retailer from whom you purchased the product.

It is advisable to retain your proof of purchase for any warranty-related matters.