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Osoeri OS-EB02

Osoeri E-Bike Motor Controller OS-EB02 User Manual

Model: OS-EB02

INTRODUCTION

This manual provides essential instructions for the safe and efficient use of your Osoeri E-Bike Motor Controller, model OS-EB02. Please read this manual thoroughly before installation and operation to ensure proper function and longevity of your product.

PRODUCT OVERVIEW

The Osoeri OS-EB02 is a high-performance motor controller designed for electric bicycles. It manages power delivery from the battery to the motor, enabling smooth and responsive acceleration. This controller is built with durable aluminum for efficient heat dissipation and reliability.



Figure 1: Osoeri E-Bike Motor Controller OS-EB02. This image displays the compact black aluminum casing of the motor controller with various ports for connection to the e-bike system.

WHAT'S IN THE BOX

- Osoeri E-Bike Motor Controller (OS-EB02)
- Charger (as per product specifications)
- User Manual (this document)

SETUP AND INSTALLATION

Proper installation is crucial for the safe operation of your e-bike. If you are unsure about any step, consult a qualified technician.

1. **Safety First:** Ensure the e-bike battery is disconnected before beginning any installation.
2. **Mounting:** Securely mount the motor controller in a location protected from direct moisture and excessive heat, typically within the e-bike frame or a dedicated enclosure. Use appropriate fasteners to prevent vibration.
3. **Wiring Connections:**

- Connect the motor phase wires (usually three thick wires) to the corresponding ports on the controller.
 - Connect the Hall sensor wires (usually five thin wires) to the controller's Hall sensor port.
 - Connect the battery power wires (red for positive, black for negative) to the controller's power input. Ensure correct polarity.
 - Connect the throttle, brake levers, pedal assist sensor (PAS), and display unit to their respective ports on the controller. Refer to your e-bike's wiring diagram for specific connections.
4. **Initial Power-Up:** After all connections are made, carefully reconnect the e-bike battery. Turn on the e-bike system and check for proper functionality of the motor, throttle, and display.
 5. **Testing:** Perform a low-speed test ride in a safe area to confirm all functions are working correctly before full use.

OPERATING INSTRUCTIONS

Once installed, the motor controller operates in conjunction with your e-bike's display and throttle/PAS system.

- **Power On/Off:** Use the main power button on your e-bike's display to turn the system on or off.
- **Assist Levels:** Adjust the pedal assist level via your e-bike's display. Higher levels provide more motor assistance.
- **Throttle Control:** If equipped, the throttle provides instant motor power, independent of pedaling. Use it cautiously, especially at startup.
- **Brake Cut-Off:** The controller is designed to cut power to the motor when the brake levers are engaged, enhancing safety.
- **Display Feedback:** Monitor your speed, battery level, and assist level on your e-bike's display.

MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your motor controller.

- **Keep Clean:** Periodically clean the exterior of the controller to prevent dirt and debris buildup, which can hinder heat dissipation. Use a soft, dry cloth.
- **Check Connections:** Regularly inspect all wiring connections for tightness and signs of corrosion or damage. Loose connections can lead to intermittent power or system failure.
- **Avoid Water Exposure:** While the controller is designed to be robust, avoid submerging it in water or exposing it to heavy rain for prolonged periods.
- **Temperature Management:** Ensure the controller has adequate airflow to prevent overheating, especially during prolonged use or in hot weather.

TROUBLESHOOTING

If you encounter issues, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Motor not engaging	Loose battery connection, low battery, faulty throttle/PAS, motor/Hall sensor issue.	Check battery charge and connections. Inspect throttle/PAS wiring. Consult a technician if motor or Hall sensors are suspected.
Intermittent power	Loose wiring connections, damaged cables, overheating controller.	Inspect all connections for tightness. Check cables for damage. Allow controller to cool down.
E-bike display not working	Loose display connection, faulty display, controller issue.	Check display cable connection. Test with a known good display if possible.
Motor making unusual noise	Motor phase wire issue, Hall sensor issue, internal motor damage.	Verify motor phase and Hall sensor connections. Seek professional inspection for internal motor issues.

SPECIFICATIONS

Feature	Detail
Model	OS-EB02
Brand	Osoeri
Primary Material	Aluminum
Color	Black
Item Weight	142 g
Manufacturer	Osoeri
Included Components	Charger (as per product listing)

WARRANTY INFORMATION

This Osoeri E-Bike Motor Controller is covered by a limited warranty against manufacturing defects. Please refer to the product packaging or the official Osoeri website for specific warranty terms and conditions. Keep your proof of purchase for warranty claims.

CUSTOMER SUPPORT

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Osoeri customer support through their official website or the retailer from whom you purchased the product. Have your model number (OS-EB02) and purchase details ready.