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Aramox B08N5VSGZ2

Aramox Brushless Motor Regulator User Manual

Model: B08N5VSGZ2

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Aramox Brushless Motor Regulator. This speed controller is designed for seamless integration with 24V and 36V electric scooters and e-bikes, offering a reliable solution for motor control.

The controller features a robust metal housing, ensuring durability and consistent performance across various riding conditions. It is engineered for efficiency, delivering smooth acceleration and optimal power output to keep your electric vehicle running effectively.



Figure 1: Aramox Brushless Motor Regulator. This image shows the compact metal housing of the controller with its various colored wiring harnesses extending from one end, ready for connection.

2. Safety Information

- Always disconnect power from the battery before installing or performing maintenance on the motor regulator.
- Ensure all connections are secure and properly insulated to prevent short circuits.
- Do not expose the controller to water or extreme temperatures.
- If you are unsure about any installation steps, consult a qualified technician.
- Verify that the voltage of your electric scooter or e-bike matches the rated voltage of this controller (24V/36V).

3. Specifications

Feature	Detail

Feature	Detail
Rated Voltage	DC 24V / 36V (Automatic Detection)
Rated Power	250W
Matching Motor	DC Brushless Motor
Application	Electric Scooters, E-Bikes
Material	Metal
Item Weight	Approx. 200g (7.1 oz)
Product Dimensions	Approx. 0.39 x 0.39 x 0.39 inches (1 x 1 x 1 cm)

4. Installation and Setup

The installation of the brushless motor regulator is straightforward. Follow these steps carefully to ensure proper functionality and safety.

1. **Prepare for Installation:** Ensure your electric scooter or e-bike is powered off and the battery is disconnected. Identify the location where the new controller will be mounted.
2. **Identify Wiring:** The controller comes with various color-coded wires. Refer to the diagram below for common wire functions.

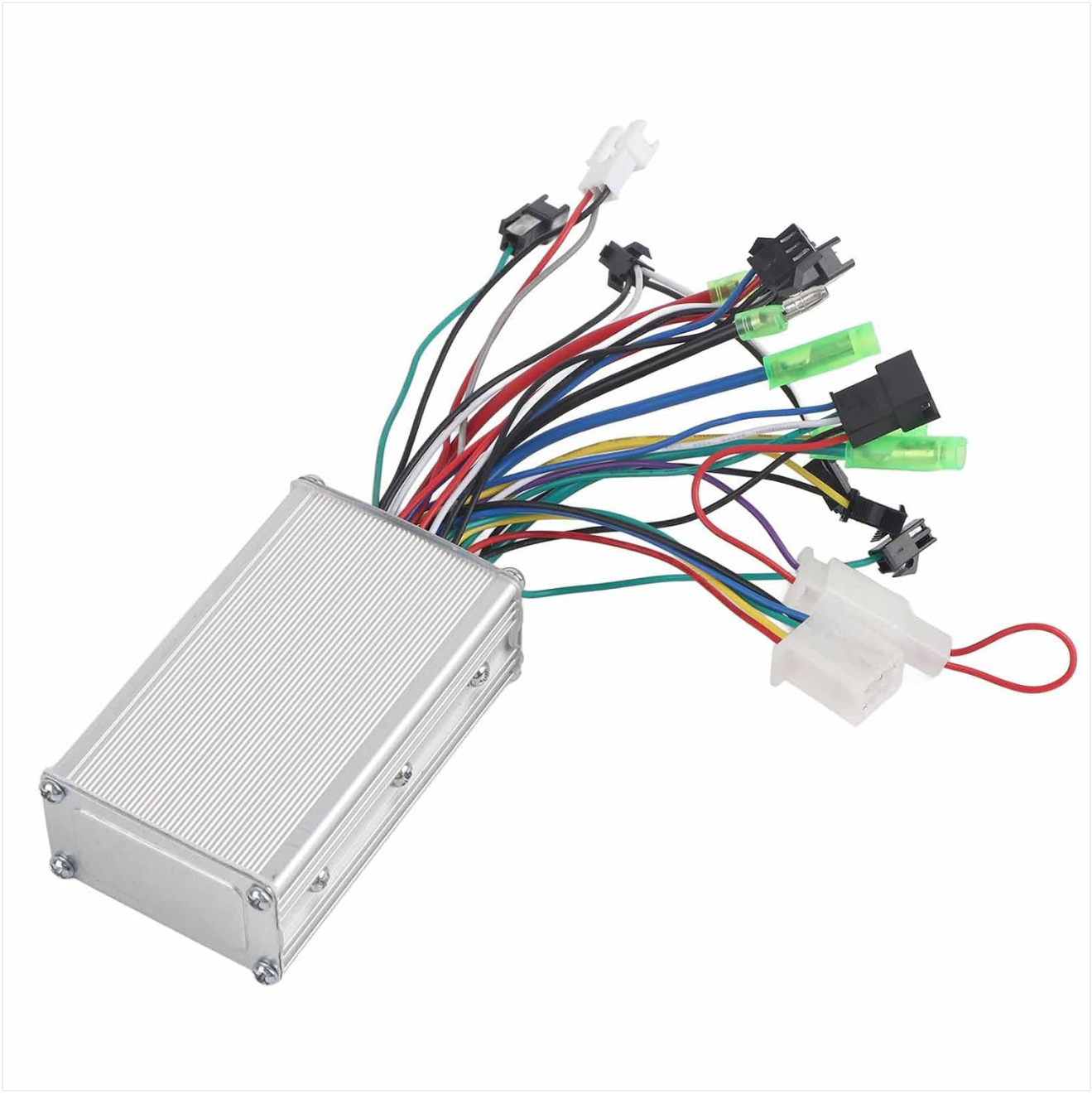


Figure 2: Detailed view of the controller's wiring. This image highlights the various connectors and their corresponding wire colors, which are essential for correct installation.

- **Thick Red/Black Wires:** Power input (Red for positive, Black for negative). Connect to battery.
- **Thick Blue/Green/Yellow Wires:** Motor phase wires. Connect to motor.
- **Thin Red/Black Wires:** Ignition/Key switch.
- **Thin Red/Blue/Green/Yellow Wires:** Hall sensor wires (if applicable to your motor).
- **Other Wires:** May include throttle, brake, speed limit, anti-theft, etc. Consult your vehicle's wiring diagram for specific connections.

3. **Connect Power Wires:** Connect the thick red wire from the controller to the positive terminal of your battery and the thick black wire to the negative terminal.
4. **Connect Motor Wires:** Connect the thick blue, green, and yellow wires from the controller to the corresponding phase wires of your brushless motor.
5. **Connect Hall Sensor Wires (if applicable):** If your motor uses Hall sensors, connect the thin Hall sensor wires from the controller to the motor's Hall sensor wires. Ensure correct color matching.
6. **Connect Throttle:** Connect the throttle wires (typically red, black, green/blue) to the controller's throttle input.

7. **Connect Brake Levers:** Connect the brake lever wires to the controller's brake input. This typically cuts power to the motor when brakes are applied.
8. **Secure the Controller:** Mount the controller securely in a protected area, away from direct moisture and excessive vibration.
9. **Final Check:** Double-check all connections for security and correct polarity before reconnecting the battery.



Figure 3: Top view of the controller, displaying the product label with voltage and power ratings. This label provides critical information for verifying compatibility.

5. Operation

Once correctly installed, the Aramox Brushless Motor Regulator operates automatically to manage your electric motor's speed and power output. There are no user-adjustable settings on the controller itself.

- **Power On:** Turn on your electric scooter or e-bike using its main power switch or key. The controller will automatically detect the battery voltage (24V or 36V).

- **Throttle Control:** Use the throttle on your vehicle to control the motor's speed. The controller will regulate power delivery for smooth acceleration.
- **Braking:** When the brake levers are engaged, the controller will cut power to the motor, ensuring safe deceleration.
- **Efficiency:** The controller is designed to maintain optimal motor performance and efficiency during operation.

6. Maintenance

The Aramox Brushless Motor Regulator requires minimal maintenance. Adhering to these guidelines will help ensure its longevity and reliable performance.

- **Keep Clean:** Periodically inspect the controller for dirt, dust, or debris. Clean the exterior with a dry, soft cloth. Do not use liquids or solvents.
- **Check Connections:** Regularly check all wiring connections to ensure they remain tight and free from corrosion. Loose connections can lead to intermittent operation or damage.
- **Avoid Overheating:** Ensure the controller has adequate ventilation. Avoid covering it or operating it in enclosed spaces where heat can build up.
- **Environmental Protection:** Protect the controller from direct exposure to rain, heavy moisture, and extreme temperatures.

7. Troubleshooting

If you encounter issues with your Aramox Brushless Motor Regulator, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Motor not running	No power to controller, loose connections, faulty throttle, faulty motor.	Check battery connection and charge. Verify all wiring connections. Test throttle functionality. Inspect motor for damage.
Motor runs intermittently	Loose wiring connections, intermittent throttle signal, overheating.	Secure all connections. Check throttle wiring. Ensure adequate ventilation for the controller.
Motor runs but with reduced power	Low battery charge, incorrect voltage setting (though auto-detect), motor issue.	Charge battery fully. Ensure battery voltage is within 24V/36V range. Inspect motor.
Controller gets excessively hot	Overload, poor ventilation, short circuit.	Reduce load on motor. Improve ventilation around controller. Check for any short circuits in wiring. Disconnect power immediately if overheating occurs.

If the problem persists after attempting these solutions, please contact customer support for further assistance.

8. Warranty and Support

This product is covered by a standard return policy, typically allowing returns or replacements within 30 days of purchase.

For specific warranty details and to initiate a return or replacement, please refer to your purchase documentation or contact the retailer directly.
For technical support or inquiries regarding the Aramox Brushless Motor Regulator, please contact Aramox customer service through the official channels provided at the point of purchase or on the Aramox brand website.

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