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NOENNULL NOENNULLaw8dih5pqz

NOENNULL 36V/48V 350W Brushless Motor Controller Instruction Manual

Model: NOENNULLaw8dih5pqz

1. Product Overview

The NOENNULL 36V/48V 350W Brushless Motor Controller is designed to provide stable speed and sensitive control over braking and direction changes for electric bikes and scooters. Its aluminum alloy shell features a groove design for efficient heat dissipation, protecting the internal circuit from thermal overload and ensuring long-term durability.

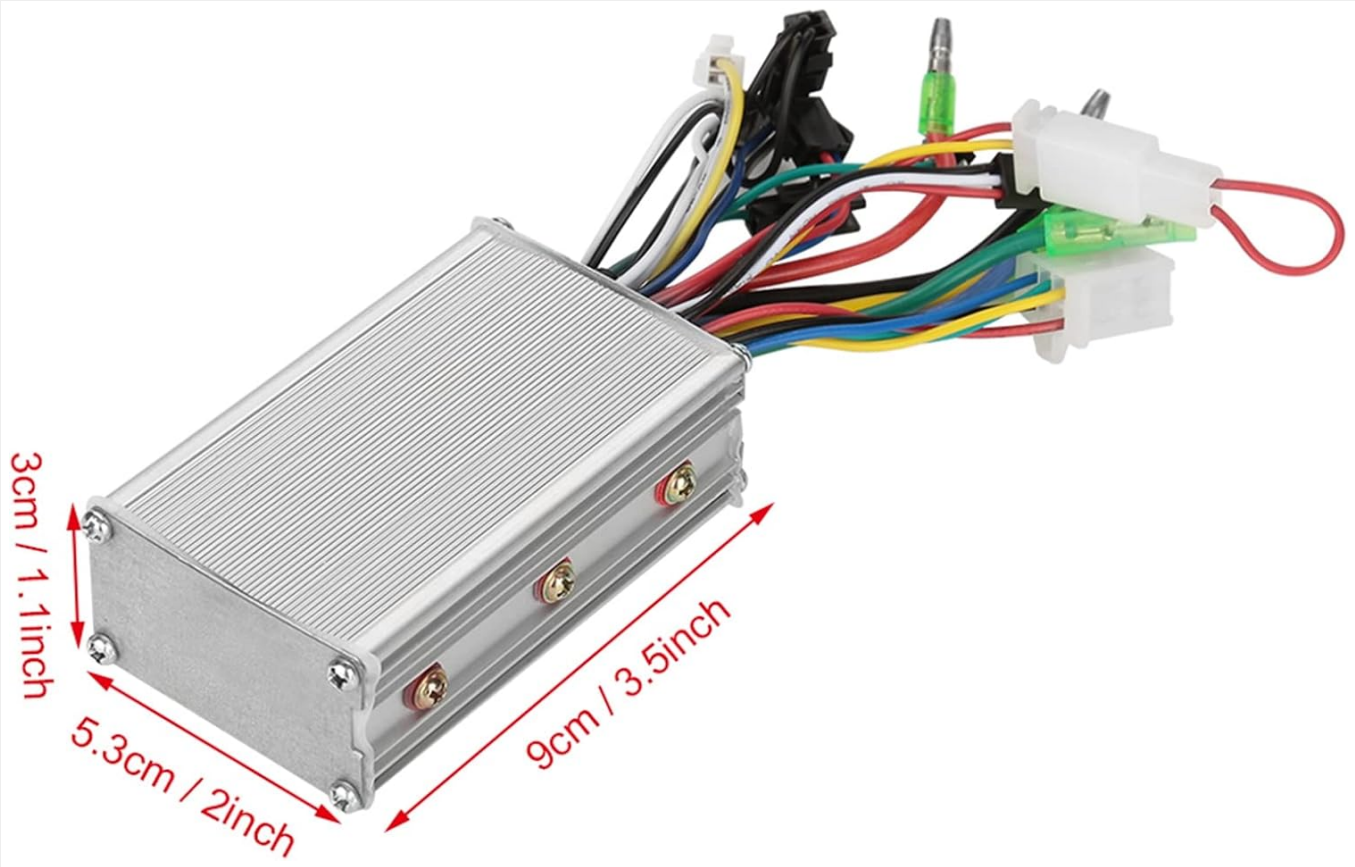


Image 1.1: The NOENNULL 36V/48V 350W Brushless Motor Controller, showing its compact design and dimensions (approximately 9 x 5.4 x 3 cm).



Image 1.2: Close-up of the brushless motor controller, emphasizing its aluminum alloy casing with heat dissipation fins, designed to protect internal components.

2. Specifications

Feature	Detail
Brand	NOENNULL
Model Number	NOENNULLaw8dih5pqz
Material	Aluminum Alloy
Nominal Working Voltage	36V / 48V
Rated Power	350W
Current	13A

Feature	Detail
Low Voltage Protection	30V / 42V
Suitable Motor Phase Angle	60 / 120 degrees
Dimensions (Approx.)	9 x 5.4 x 3 cm (3.5 x 2 x 1.18 inches)
Weight (Approx.)	204 grams (7 ounces)
Application	Electric bikes, scooters, etc.
Assembly Required	No
Batteries Required	No

3. Package Contents

The package includes:

- 1 x NOENNULL 36V/48V 350W Brushless Motor Controller

Note: The product does not include a cord for a display unit. Please be aware that product variations may occur as new and old types are shipped randomly.

4. Setup and Installation

This brushless motor controller is designed for straightforward installation. The interfaces are clearly labeled to assist with proper connection. Refer to the detailed wiring diagram below for specific connections.

4.1 Wiring Diagram Overview

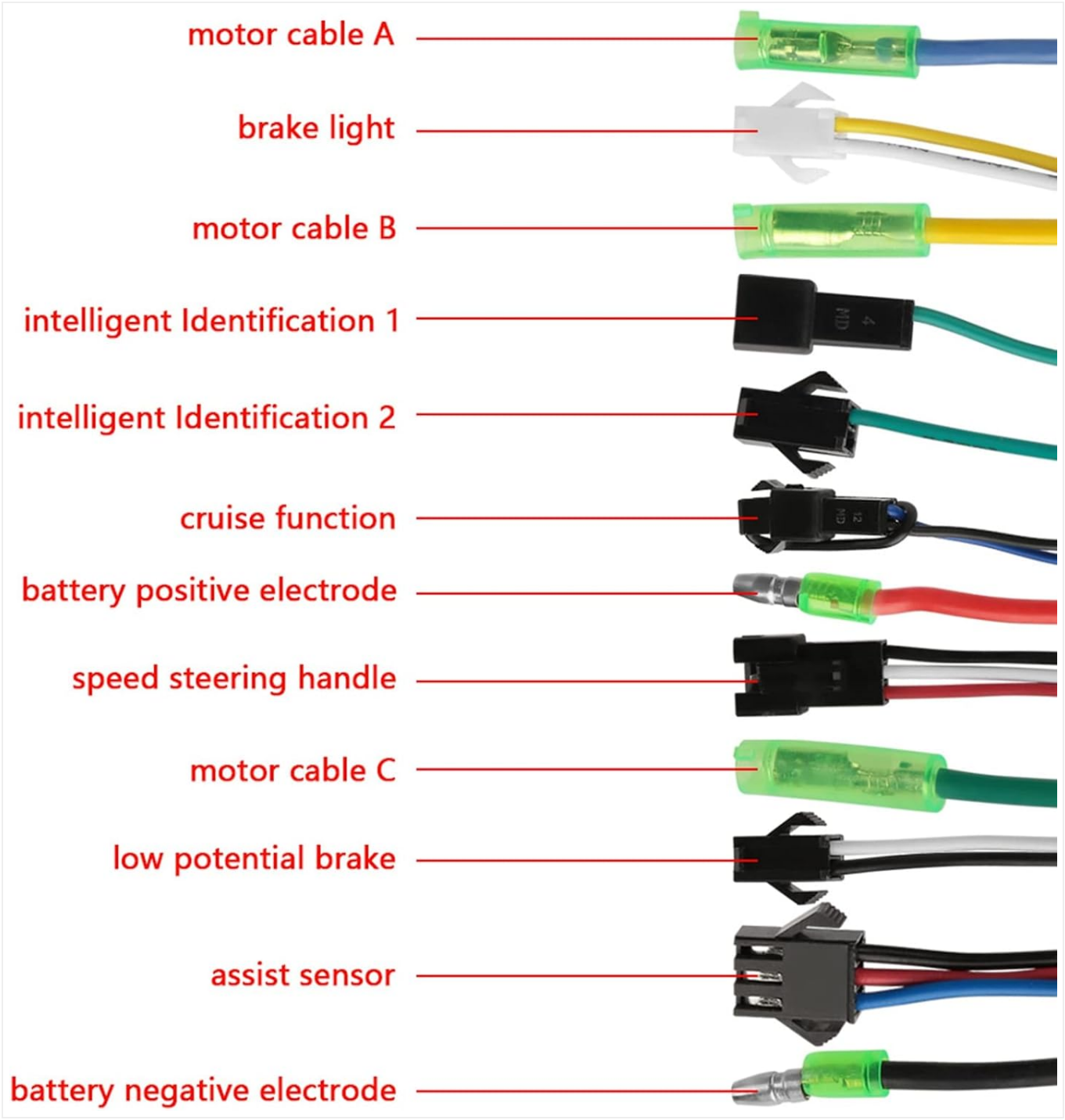


Image 4.1: Overview of the controller's wiring, showing various labeled connectors for motor, battery, brakes, and other functions.

4.2 Detailed Wiring Connections

The following diagram provides a comprehensive guide to connecting the controller. Ensure all connections are secure and match the corresponding functions.

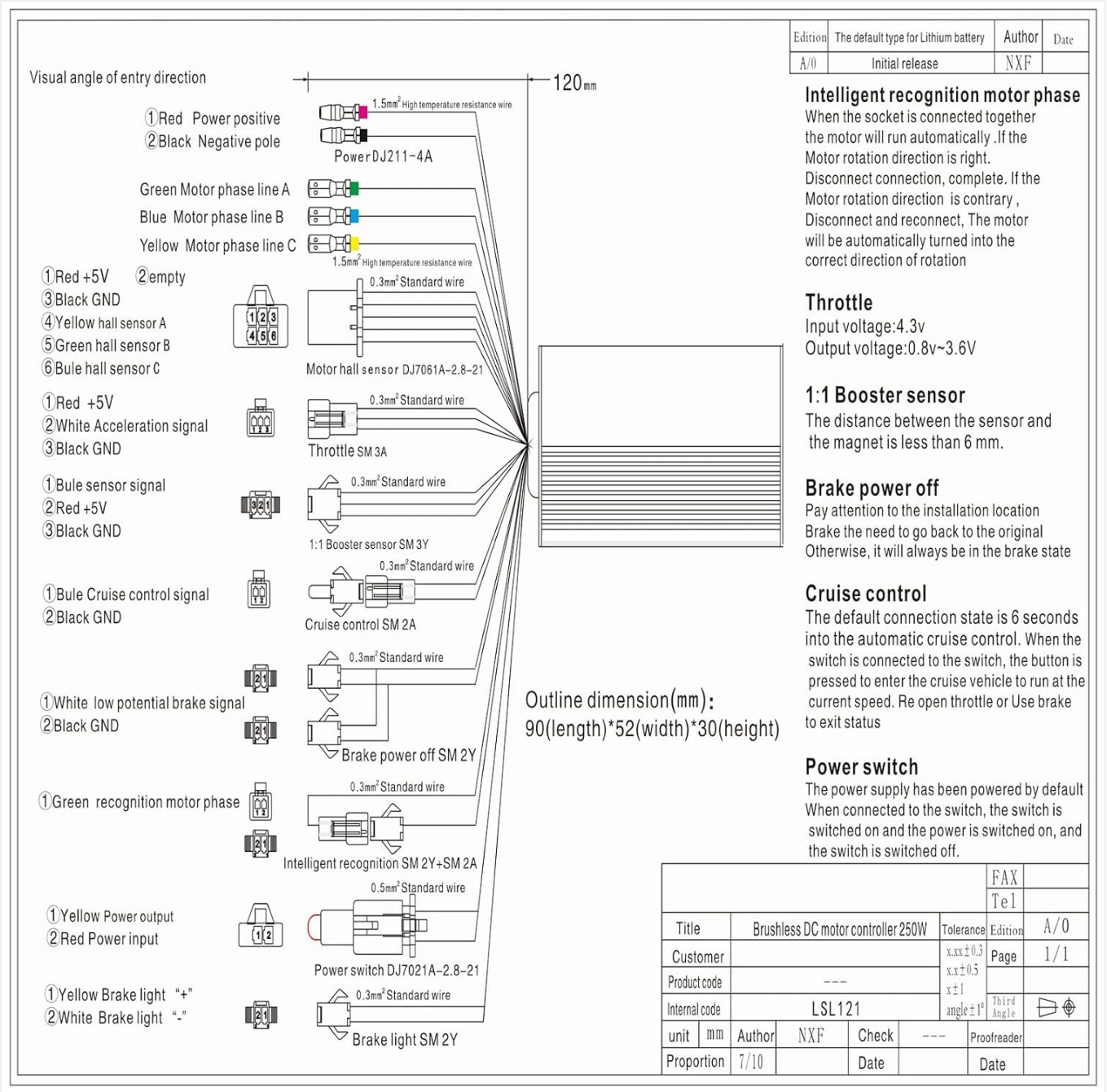


Image 4.2: Detailed wiring schematic, illustrating connections for power, motor phases, hall sensors, throttle, brake signals, cruise control, and power switch.

Key Connection Points:

- **Power Input:** Connect the main battery positive (Red) and negative (Black) wires.
- **Motor Phase Wires:** Connect Green, Blue, and Yellow motor phase lines to the corresponding motor wires.
- **Motor Hall Sensor:** Connect the Hall sensor wires (Red +5V, Black GND, Yellow, Green, Blue signals) to the motor's Hall sensor.
- **Throttle:** Connect the throttle input (typically 4.3V input, 0.8V-3.6V output).
- **Brake Signal:** Connect the brake light and low potential brake wires.
- **Intelligent Recognition Phase:** When the socket is connected, the motor will run automatically. If the motor rotation is correct, disconnect. If incorrect, disconnect and reconnect. The motor will automatically turn to the correct direction.
- **1:1 Booster Sensor:** This sensor measures the distance between the sensor and the magnet (less than 5mm).
- **Cruise Control:** The default connection state is 6 seconds into automatic cruise control. When the switch is connected, press to enter cruise. Release to exit.
- **Power Switch:** The power supply is enabled by default. When connected, the switch is on.

4.3 Installation Tips

- Ensure all connections are firm and properly insulated to prevent short circuits.
- Mount the controller in a location that allows for adequate airflow to utilize its heat dissipation features.
- Double-check all wiring against the diagram before applying power.

5. Operating Instructions

Once the controller is correctly installed and connected, power on your electric bike or scooter. The controller will manage the motor's speed and power output based on your throttle input and other connected sensors (e.g., pedal assist, brakes).

- **Power On:** Activate the main power switch of your electric vehicle.
- **Throttle Control:** Use the throttle to control the motor speed. The controller provides sensitive and even speed control.
- **Braking:** Engaging the brakes will signal the controller to cut power to the motor, ensuring safe deceleration.
- **Cruise Function:** If enabled and connected, the cruise control will maintain a constant speed. Refer to the wiring diagram for specific activation methods.

6. Maintenance

To ensure the longevity and optimal performance of your NOENNULL Brushless Motor Controller, follow these maintenance guidelines:

- **Regular Inspection:** Periodically check all wiring connections for looseness or damage. Ensure connectors are clean and free from corrosion.
- **Cleanliness:** Keep the controller unit clean and free from dust, dirt, and moisture. Use a dry, soft cloth for cleaning. Avoid using harsh chemicals or abrasive materials.
- **Environmental Protection:** While the controller has an aluminum alloy shell for heat dissipation, avoid exposing it to extreme temperatures, direct sunlight for prolonged periods, or heavy rain/water immersion.
- **Secure Mounting:** Ensure the controller remains securely mounted to prevent vibrations or impacts that could damage internal components.

7. Troubleshooting

If you encounter issues with your motor controller, consider the following common troubleshooting steps:

- **Motor Not Responding:**
  - Check battery connections and ensure the battery is charged.
  - Verify all motor phase wires and Hall sensor connections are correct and secure.
  - Ensure the throttle is properly connected and functioning.
  - Perform the intelligent recognition phase procedure as described in Section 4.2.
- **Intermittent Power/Operation:**
  - Inspect all wiring for loose connections or damaged insulation.
  - Check for signs of overheating on the controller unit. Ensure it's mounted in a well-ventilated area.
- **Brakes Not Cutting Power:**
  - Verify the brake signal wires are correctly connected and the brake levers are functioning.
- **Unusual Noises from Motor:**

- This could indicate incorrect motor phase or Hall sensor connections. Re-check the wiring diagram and perform the intelligent recognition phase.

If the issue persists after attempting these steps, consult a qualified technician or contact customer support.

8. Product Videos

Watch these official product videos for additional guidance on the NOENNULL Brushless Motor Controller.

8.1 36-48V 350W E-Bike Brushless Motor Square Wave Controller DC Overview

Video 8.1: This video provides an overview of the 36-48V 350W E-Bike Brushless Motor Square Wave Controller, highlighting its features and components.

8.2 Electric Motor Controller Introduction

Video 8.2: An introductory video to the electric motor controller, demonstrating its general appearance and various connectors.

8.3 BLDC Motor Controller Manufacturing Process

Video 8.3: This video showcases the manufacturing process of a BLDC motor controller, providing insight into its production and quality control.

8.4 Controller Unboxing and Handling

Video 8.4: A short video demonstrating the unboxing and initial handling of the controller, showing its components and packaging.

9. Important Notes

- Always ensure the power is off before making or changing any connections.
- Incorrect wiring can cause damage to the controller, motor, or battery. If unsure, seek professional assistance.
- This controller is designed for 36V/48V systems and 350W motors. Using it outside these specifications may lead to malfunction or damage.

10. Warranty and Support

For warranty information, technical support, or any inquiries regarding your NOENNULL Brushless Motor Controller, please refer to the seller's contact information on the purchase platform or the official NOENNULL website. Keep your proof of purchase for warranty claims.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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