Alomejor E Motor Controller

Alomejor 24V 250W Electric Scooter Motor Display Controller Kit User Manual

Model: E Motor Controller | Brand: Alomejor

Introduction

This manual provides essential instructions for the installation, operation, and maintenance of your Alomejor 24V 250W Electric Scooter Motor Display Controller Kit. Please read this manual thoroughly before installation and use to ensure proper function and safety.

Package Contents:



Figure 1: Overview of the Alomejor 24V 250W Electric Scooter Motor Display Controller Kit, highlighting the main components

included in the package.

- 1 x 24V 250W Motor Controller
- 1 x LCD Display Panel
- 1 x Throttle Grip
- 1 x Brake Lever

Important Safety Information

- Always disconnect power from the scooter's battery before performing any installation, maintenance, or wiring adjustments.
- Ensure all electrical connections are secure, correctly matched, and properly insulated to prevent short circuits or damage to the controller and other components.
- Do not expose the controller or display to excessive moisture, direct water immersion, or extreme temperatures. While rainproof, they are not designed for submersion.
- If you are unsure about any installation steps or electrical connections, seek assistance from a qualified technician.
- Regularly inspect all wiring for signs of wear, fraying, or damage. Replace any compromised wires immediately.
- Operate the electric scooter responsibly and in accordance with local laws and regulations.

Product Overview

The Alomejor 24V 250W Electric Scooter Motor Display Controller Kit is designed to provide stable speed control and sensitive braking for electric scooters. It comprises a robust motor controller, an intuitive LCD display panel, and a responsive throttle/brake assembly.



Figure 2: Main components of the Alomejor controller kit, including the controller unit, throttle grip, and LCD display panel.

Controller Unit Dimensions:

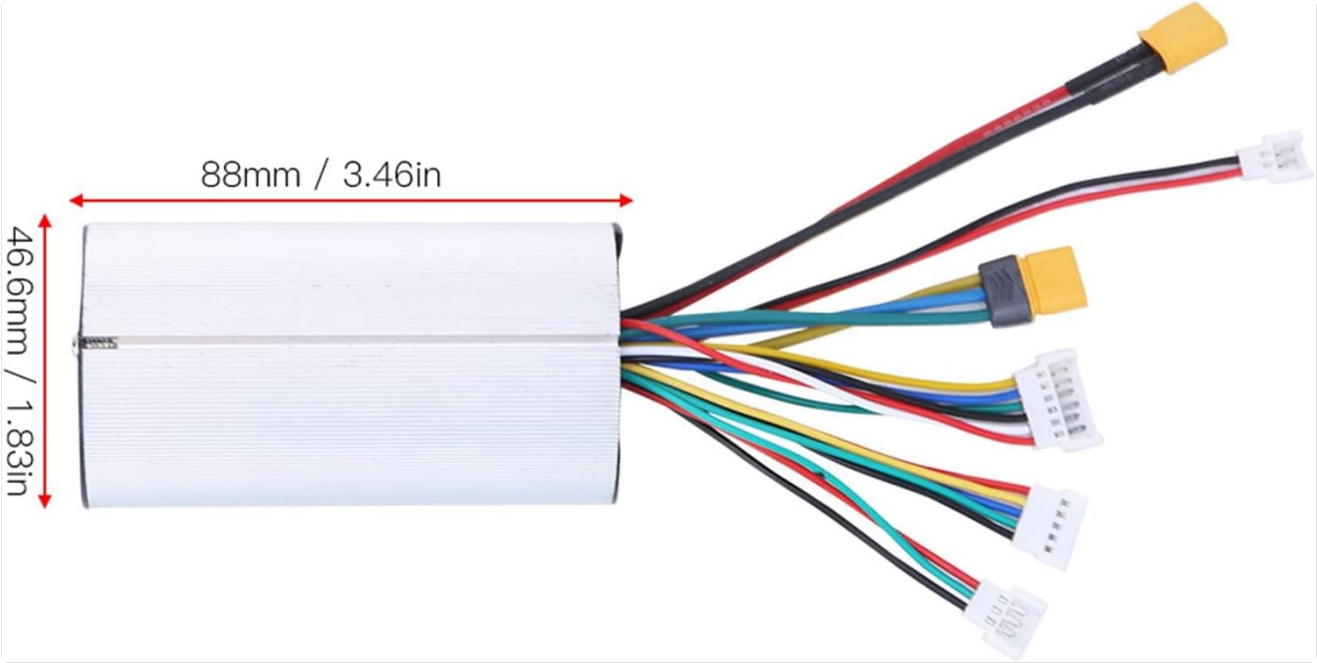


Figure 3: Physical dimensions of the motor controller unit, showing approximate length of 88mm (3.46in) and width of 46.6mm (1.83in).

Setup and Installation

Follow these steps to correctly install the Alomejor controller kit onto your electric scooter. Ensure the scooter's power is off and the battery is disconnected before beginning installation.

Wiring Diagram:

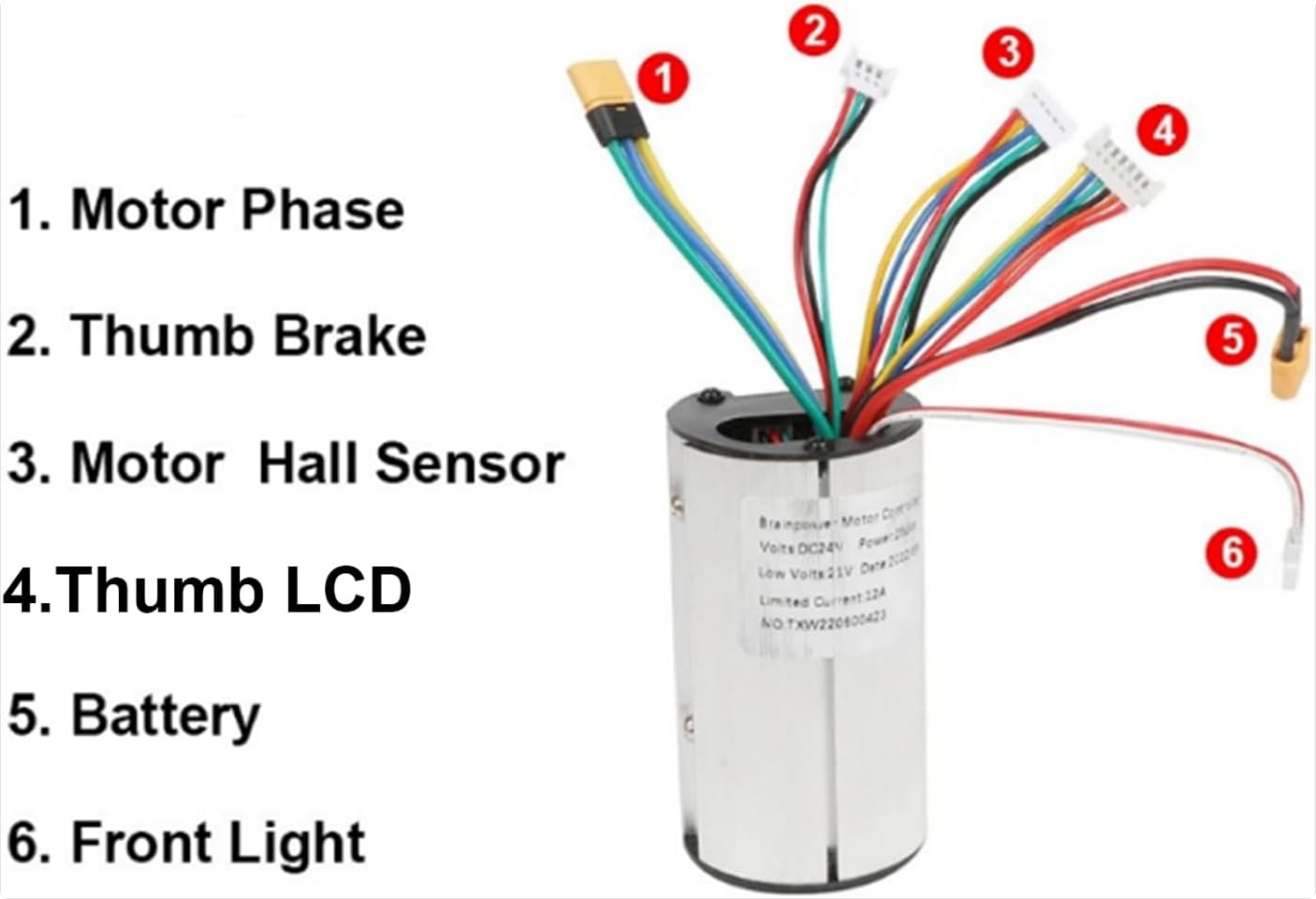


Figure 4: Detailed wiring connections for the motor controller. Each numbered point indicates a specific connection:

1. Motor Phase
2. Thumb Brake
3. Motor Hall Sensor
4. Thumb LCD (Display)
5. Battery
6. Front Light

Installation Steps:

1. **Mount the Controller:** Securely mount the controller unit in a protected area on your scooter, ensuring it is away from direct water exposure and vibrations.
2. **Connect Motor Phase:** Connect the motor phase wires (typically thicker wires) from your scooter's motor to the corresponding Motor Phase connection on the controller (labeled 1 in Figure 4).
3. **Connect Motor Hall Sensor:** Connect the motor hall sensor wires to the controller (labeled 3 in Figure 4).
4. **Connect Battery:** Connect the battery wires to the Battery connection on the controller (labeled 5 in Figure 4). Ensure correct polarity (positive to positive, negative to negative).
5. **Install LCD Display and Throttle:** Mount the LCD display panel and throttle grip securely on the handlebars in a comfortable and accessible position.
6. **Connect LCD Display:** Connect the LCD display cable to the Thumb LCD connection on the controller (labeled 4 in Figure 4).
7. **Install Brake Lever:** Mount the brake lever on the handlebars.

8. **Connect Brake:** Connect the brake lever cable to the Thumb Brake connection on the controller (labeled 2 in Figure 4).
9. **Connect Front Light (Optional):** If your scooter has a front light, connect its wires to the Front Light connection on the controller (labeled 6 in Figure 4).
10. **Secure All Connections:** Double-check all connections to ensure they are tight, properly seated, and insulated. Verify that no bare wires are exposed.

Each cable is color-coded for easier identification and installation. Refer to Figure 4 for visual guidance on wire matching.

Operating Instructions

Once installed and all connections are verified, the controller kit allows for intuitive control of your electric scooter.

Power On/Off:

- To power on the system, press and hold the power button on the LCD display panel until the screen illuminates.
- To power off, press and hold the power button again until the display turns off.

Using the LCD Display:

The LCD display provides real-time status and data, including current speed, battery level, and other operational parameters. Use the navigation buttons on the display to cycle through different information screens or adjust settings as available (e.g., speed modes).

Speed Control:

The throttle grip controls the scooter's acceleration and speed. Gently press the throttle to accelerate and release to decelerate. The controller is designed to provide steady speed and sensitive control, ensuring a smooth riding experience.

Braking:

Engage the brake lever to activate the scooter's braking system. The controller provides sensitive control of braking action, contributing to safe stops.

Maintenance

Proper maintenance ensures the longevity and reliable performance of your Alomejor controller kit.

- **Cleaning:** Wipe the controller casing and LCD display with a soft, dry, or slightly damp cloth. Avoid using abrasive cleaners, solvents, or excessive water, which can damage electronic components.
- **Inspection:** Periodically check all wiring connections for looseness, corrosion, or signs of damage. Ensure the controller unit is securely mounted and not exposed to undue stress.
- **Environmental Protection:** While the components are rainproof, it is advisable to keep the controller and display protected from prolonged direct sunlight, heavy rain, and extreme temperatures when the scooter is stored or not in use.

Troubleshooting

This section addresses common issues you might encounter. For problems not listed here, or if solutions do not resolve the issue, please contact customer support.

Problem	Possible Cause	Solution
System does not power on.	Loose battery connection, discharged battery, faulty power button on display.	Check all battery connections for tightness. Ensure the scooter's battery is fully charged. Verify the power button on the LCD display is functioning correctly.
Motor not responding to throttle input.	Loose throttle connection, faulty throttle unit, disconnected motor phase or Hall sensor wires.	Inspect throttle wiring for secure connection. Check motor phase and Hall sensor connections as per Figure 4.
Brake not functioning or inconsistent.	Loose brake lever connection, faulty brake lever switch.	Check brake lever wiring for secure connection. Ensure the brake lever is properly installed and its internal switch is operational.
LCD display not showing data or displaying incorrect information.	Loose display connection, faulty display unit.	Verify the Thumb LCD connection (labeled 4 in Figure 4) is secure and undamaged.

Note: This manual provides general troubleshooting steps. Specific P-code programming instructions or advanced diagnostic procedures are not detailed here. For such information, please refer to additional resources or contact customer support.

Specifications

Feature	Detail
Brand	Alomejor
Model Name	E Motor Controller
Voltage	24 Volts
Wattage	250W
Included Components	24V 250W LCD Monitor, Controller, Throttle, Brake
Special Features	Lightweight, Rainproof
Controller Material	Aluminum
UPC	738586243534
Part Number	Alomejorp862ruomxs-11

Warranty Information

This Alomejor product comes with a **Limited Warranty**. For specific terms and conditions, including duration and coverage details, please refer to the warranty card included with your purchase or contact Alomejor customer support directly. Keep your proof of purchase for warranty claims.

Customer Support

If you have any questions, require technical assistance, or need to report an issue with your Alomejor 24V 250W Electric Scooter Motor Display Controller Kit, please contact Alomejor customer support through their official website or the retailer where the product was purchased.
For more information and product updates, you may visit the Alomejor Store on Amazon.

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