

WOHPNLE WOHPNLEpko5xn31m7

WOHPNLE Electric Bike Controller LCD Display Kit User Manual

Model: WOHPNLEpko5xn31m7

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1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your WOHPNLE Electric Bike Controller LCD Display Kit. This kit is designed for electric bikes and scooters, supporting 24V, 36V, and 48V systems with motors ranging from 1000W to 1500W. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. WHAT'S IN THE BOX

Verify that all components are present before beginning installation:

- 1 x 48V Brushless Speed Controller (1500 Watt)
- 1 x EN06 LCD Display
- 1 x Controller Wiring Diagram
- 1 x User Manual (this document)

3. PRODUCT OVERVIEW

3.1 Controller Features

The 30A sine wave controller supports both Hall sensor and sensorless motor operation. It features a self-

learning function that automatically switches between sine and square wave modes based on the motor's Hall sensor status. This ensures compatibility with a wide range of electric bike and scooter motors. The aluminum alloy shell is designed with grooves for efficient heat dissipation, protecting internal components and extending the controller's lifespan.



Image 3.1: The WOHPNLE Electric Bike Controller showing its dimensions (145mm x 60mm x 36mm) and various wire connections. The LCD display and its cable length (approx. 180cm) are also shown.

FAST HEAT DISSIPATION

Aluminum alloy shell of the controller has a groove design, provides fast heat dissipation, well defend the circuit, avoid overheat.

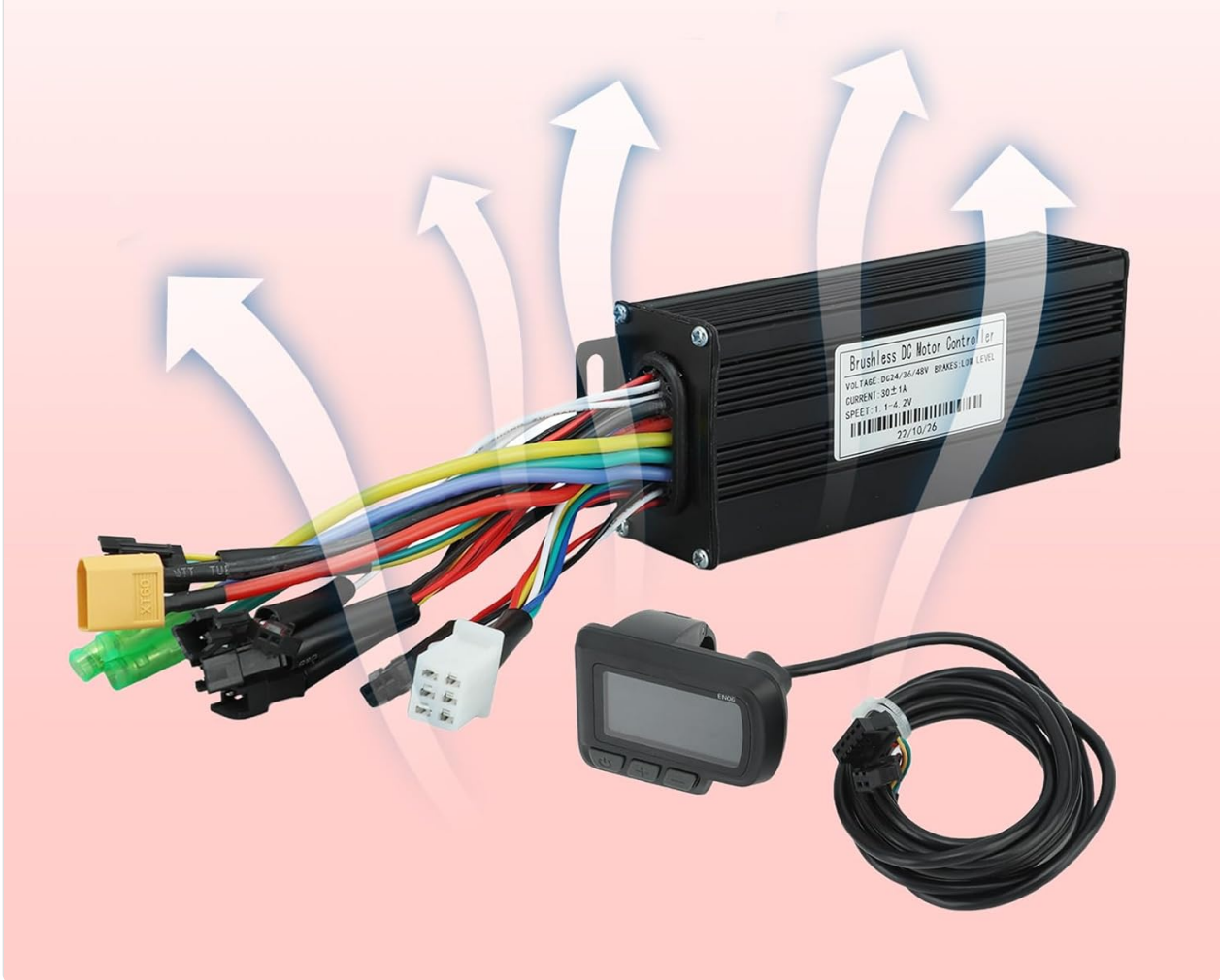


Image 3.2: A detailed view of the WOHPNLE Electric Bike Controller and the EN06 LCD Display. The controller is shown with its various wire harnesses, and the LCD display is shown with its mounting bracket.



Material: ABS, Acrylic



Image 3.3: The WOHPNLE Electric Bike Controller with arrows indicating airflow for efficient heat dissipation from its grooved aluminum alloy shell.

3.2 LCD Display Features

The EN06 LCD display is constructed from durable ABS and acrylic materials. It provides a clear interface for monitoring essential riding data, including speed, mileage, assist gear, power levels, and fault prompts. The display is designed for easy mounting on 22.2mm handlebars, and its intuitive buttons allow for quick and convenient operation while riding.

APPLICABLE MOTOR:
Controller LCD display kit is suitable for 24V, 36V, 48V 1000W-1500W brushless motor with and without Hall.



Image 3.4: Close-up views of the EN06 LCD display, showing its connector, front view with buttons, and side view with the handlebar clamp. The display is made of ABS and Acrylic.

3.3 Product Video Overview

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Video 3.1: An 8-second video demonstrating the WOHPNLE Electric Bike Controller LCD Display Kit, highlighting its components and potential application on an electric bicycle. This video provides a quick visual overview of the product.

4. SETUP AND INSTALLATION

Proper installation is crucial for the safe and effective operation of your electric bike controller kit. Refer to the included Controller Wiring Diagram for specific connections.

4.1 Component Identification and Placement

Identify the main components of your electric bike system and plan the placement of the controller and LCD display. The controller is typically mounted near the battery, while the LCD display attaches to the handlebars.

Product Specification

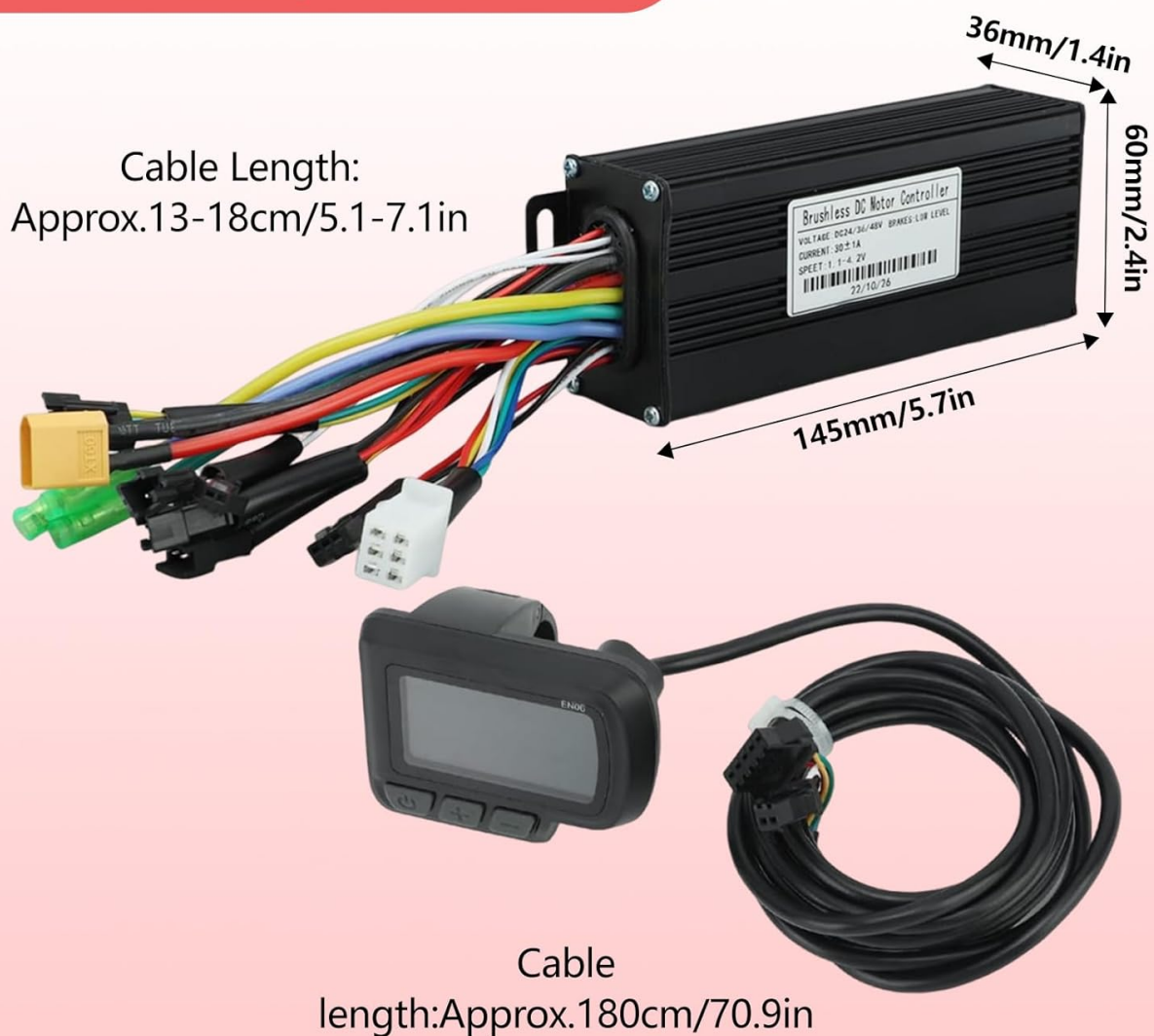


Image 4.2: Detailed wiring diagram for the WOHPNLE Electric Bike Controller, showing the various connectors and their functions (Phase line, Hall line, Throttle, Light, E-brake, Display, Power, PAS, Self-study).

4.3 LCD Display Mounting

Mount the EN06 LCD display securely on your electric bike's 22.2mm handlebars. Ensure it is positioned for clear visibility and easy access to its buttons while riding.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

Press and hold the power button on the LCD display to turn the system on or off.

5.2 Display Functions

The EN06 LCD display provides real-time information about your ride:

- **Riding Speed:** Current speed of the bike.
- **Mileage:** Trip distance or total odometer reading.
- **Assist Gear:** Current level of pedal assist.

- **Power Levels:** Indication of battery charge.
- **Fault Prompts:** Displays error codes if issues arise.
- **Headlight Display:** Indicates if headlights are active.
- **Motor Operating Power:** Shows the power output of the motor.

5.3 Parameter Settings (P-Modes)

The LCD display allows for adjustment of various parameters (P-modes) to customize your riding experience. Refer to the detailed instructions provided with the LCD display for specific P-mode settings, which may include:

- Battery voltage (e.g., 24V, 36V, 48V)
- Wheel size
- Speed limit
- Number of speed magnets
- Assist levels

Note: Incorrect parameter settings can affect performance or damage components. Consult the specific LCD display manual or a qualified technician if unsure.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your controller and display kit.

- **Cleaning:** Keep the controller and display clean and free from dust and debris. Use a soft, dry cloth. Avoid using harsh chemicals or excessive moisture.
- **Connections:** Periodically check all wiring connections to ensure they are secure and free from corrosion. Loose connections can lead to intermittent operation or damage.
- **Heat Dissipation:** Ensure the controller's grooved casing is not obstructed to allow for proper heat dissipation.
- **Water Exposure:** While the components are designed for outdoor use, avoid prolonged exposure to heavy rain or submersion in water.
- **Storage:** When not in use for extended periods, store the electric bike in a dry, temperate environment.

7. TROUBLESHOOTING

If you encounter issues, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
System does not power on.	Loose battery connection, discharged battery, faulty display/controller.	Check battery connection and charge level. Ensure display cable is securely connected.
Motor not responding.	Loose motor phase/Hall sensor wires, faulty throttle, incorrect P-mode settings.	Verify all motor connections. Check throttle function. Review P-mode settings for motor type and voltage.
Display shows error code.	Specific system fault (e.g., motor, controller, battery).	Consult the LCD display's specific manual for error code definitions and troubleshooting steps.

Problem	Possible Cause	Solution
Inconsistent power or speed.	Loose connections, motor issues, battery degradation.	Inspect all wiring. Check battery health. Ensure motor is free of obstructions.

If problems persist after attempting these solutions, contact customer support or a qualified technician.

8. SPECIFICATIONS

Feature	Detail
Brand	WOHPNLE
Model Number	WOHPNLEpko5xn31m7
Controller Type	30A Sine Wave Brushless DC Motor Controller
Voltage Compatibility	24V, 36V, 48V
Motor Power Range	1000W - 1500W
Display Type	EN06 LCD Display
Display Mounting	22.2mm Handlebars
Controller Material	Aluminum Alloy
Display Material	ABS, Acrylic
Color	Black
Number of Settings	3 (referring to 3-mode sine controller)

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the product packaging or contact WOHPNLE customer service directly. Keep your purchase receipt as proof of purchase.

Contact Information: Refer to the official WOHPNLE website or your retailer for the most current contact details.