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Yanmis Yanmishmxeg7w126

Yanmis 48V 350W Brushless Motor Controller Kit User Manual

Model: Yanmishmxeg7w126

1. Introduction

Thank you for choosing the Yanmis 48V 350W Brushless Motor Controller Kit. This kit is designed to provide efficient and reliable control for your electric bicycle or scooter, enhancing your riding experience with its advanced features and robust construction. This manual provides detailed instructions for installation, operation, and maintenance to ensure optimal performance and longevity of your product.

Product Overview

The kit includes a high-quality brushless motor controller, an LCD display panel, and a thumb throttle. The controller ensures stable and quiet motor operation, while the waterproof LCD display provides essential riding data at a glance. The thumb throttle allows for precise speed adjustment.



Image 1.1: Overview of the Yanmis 48V 350W Brushless Motor Controller Kit, showing the controller unit, LCD display, and thumb throttle with connecting cables.

2. Key Features

- **Durable Construction:** Made from high-quality materials with fine craftsmanship, ensuring good toughness and waterproof functionality for internal circuit protection.
- **Informative LCD Display:** Easily view basic electric bicycle status including speed, gear, power level, mode, and lamp status. Backlight ensures clear data visibility in low-light conditions.
- **Stable Brushless Motor Control:** Utilizes a brushless motor controller for stable, quiet, and sensitive operation, responding effectively to the bicycle's working status.

- **Convenient Speed Adjustment:** Includes a thumb throttle for precise and easy speed control.
- **Wide Compatibility:** Suitable for various electric bicycles and scooters.
- **Easy Installation:** Designed for straightforward setup and use.

3. Technical Specifications

Specification	Value
Brand	Yanmis
Model Number	Yanmishmxeg7w126
Voltage	48V
Power	350W
Display Type	LCD
Suitable Handlebar Diameter	22.5 mm
Compatible Battery Types	Lead-acid, Lithium-iron, Ternary lithium, etc.
Material	Metal + Plastic

Dimensions



Image 3.1: Dimensions of the LCD display unit, showing approximate measurements of 67mm/2.6in and 43mm/1.7in.

4. Package Contents

Please check the package contents upon receipt to ensure all items are present and undamaged:

- 1 x Brushless Motor Controller

- 1 x LCD Display Panel with Thumb Throttle

5. Setup and Installation

Careful installation is crucial for the proper functioning and safety of your electric bicycle or scooter. Please follow these steps diligently.

5.1 Component Identification

Familiarize yourself with the controller and its various connectors:



Image 5.1: The brushless motor controller unit, showing the numerous color-coded wires and connectors for various functions.

5.2 Wiring Instructions

Before connecting, ensure your electric bicycle/scooter is powered off and the battery is disconnected. Refer to the labels on the controller interfaces and ensure each interface is correctly connected to its corresponding component.

1. **Power Input:** Connect the **Red** wire from the controller to the positive (+) terminal of your battery.
2. **Power Output:** Connect the **Yellow** wire from the controller to the motor's power input.
3. **Signal Transmission:** Connect the **Blue** wire for signal transmission.
4. **Signal Reception:** Connect the **Green** wire for signal reception.
5. **Negative Electrode:** Connect the **Black** wire to the negative (-) terminal of your battery.
6. **Motor Phase Wires:** Connect the three thick motor phase wires (usually green, yellow, blue) from the controller to the corresponding motor phase wires.
7. **Hall Sensor Wires:** Connect the smaller Hall sensor wires (usually five wires: red, black, blue, green, yellow) from the controller to the motor's Hall sensor connector.
8. **LCD Display/Throttle:** Connect the display and thumb throttle unit to the designated connector on the controller.
9. **Other Accessories:** Connect any other accessories such as brake levers, lights, or pedal assist sensors to their respective connectors on the controller.

Important Note: Double-check all connections before powering on the system. Incorrect wiring can cause damage to the controller or other components.

5.3 Mounting the Display and Throttle

Mount the LCD display and thumb throttle unit onto your bicycle's handlebar. The unit is suitable for handlebars with a diameter of 22.5 mm.

1. Loosen the clamp screws on the display/throttle unit.
2. Position the unit on the handlebar in a comfortable and accessible location.
3. Tighten the clamp screws securely, ensuring the unit does not rotate freely but avoid over-tightening.



Image 5.2: The LCD display and thumb throttle unit installed on a bicycle handlebar, showing its ergonomic placement.

6. Operating Instructions

Once installed, operating your Yanmis controller kit is straightforward.

6.1 Powering On/Off

To power on the system, press and hold the power button on the LCD display. To power off, press and hold the power button again.

6.2 LCD Display Functions

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



Image 6.1: A close-up view of the LCD display, illustrating the various data points such as speed, battery level, and mode.

- **Speed:** Displays current riding speed.
- **Gear/Mode:** Indicates the current assist level or riding mode. Use the mode buttons to cycle through available modes.
- **Power/Battery Level:** Shows the remaining battery charge.
- **Lamp Indicator:** Shows if the lights are on (if connected and supported).
- **Odometer/Trip Distance:** Displays total distance traveled or current trip distance.

The display features a backlight for enhanced visibility during night rides or in dark environments.

6.3 Using the Thumb Throttle

The thumb throttle allows you to control the motor's power output and adjust your speed.

- To accelerate, gently press the thumb throttle downwards.
- To decrease speed, release the thumb throttle.
- The further you press the throttle, the faster the motor will propel your vehicle.

7. Maintenance

Regular maintenance helps ensure the longevity and reliable performance of your controller kit.

- **Cleaning:** Wipe the controller and display with a soft, damp cloth. Avoid using harsh chemicals or abrasive cleaners. Ensure no water enters the electrical components.
- **Inspection:** Periodically check all wiring connections for tightness and signs of wear or damage. Ensure all cables are properly secured and not pinched.
- **Waterproofing:** While the unit is designed to be waterproof, avoid submerging it in water or exposing it to heavy, prolonged rain.
- **Storage:** When not in use for extended periods, store the electric bicycle/scooter in a dry, cool place, away from direct sunlight.

8. Troubleshooting

If you encounter issues with your Yanmis controller kit, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
System does not power on	Loose battery connection, discharged battery, faulty power button.	Check battery connections. Ensure battery is charged. Try pressing the power button firmly.
Motor not responding to throttle	Throttle not connected, faulty throttle, motor wires loose, controller issue.	Check throttle connection to controller. Inspect motor phase and Hall sensor wires.
Display shows no data or incorrect data	Display cable loose, faulty display.	Ensure display cable is securely connected to the controller.
Intermittent power or motor cuts out	Loose connections, overheating, low battery voltage.	Check all wiring connections. Allow controller to cool down. Charge battery fully.

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

9. Safety Information

Please read and adhere to the following safety precautions to prevent injury or damage to the product:

- Always disconnect the battery before performing any installation, maintenance, or repair work on the electrical system.
- Ensure all electrical connections are secure and properly insulated to prevent short circuits.
- Do not modify the controller or any components of the kit. Unauthorized modifications can lead to malfunction and void the warranty.
- Keep the controller and display away from extreme temperatures, direct sunlight, and corrosive substances.
- If you are unsure about any installation step, seek assistance from a qualified technician.

- Always wear appropriate safety gear when riding your electric bicycle or scooter.

10. Warranty and Customer Support

This Yanmis product is covered by a standard manufacturer's warranty against defects in materials and workmanship. The specific terms and duration of the warranty may vary by region and retailer. Please retain your proof of purchase for warranty claims.

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact the retailer where you purchased the product or visit the official Yanmis support website. When contacting support, please have your product model number (Yanmishmxeg7w126) and purchase details ready.

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