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VGEBY KT-LCD5

VGEBY Electric Bicycle Controller Kit KT-LCD5 User Manual

For 36V/48V 500W Motors

1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your VGEBY Electric Bicycle Controller Kit KT-LCD5. This kit is designed to enhance your electric bicycle experience by providing efficient motor control and clear display functionalities. Please read this manual thoroughly before installation and use to ensure proper function and safety.

1.1 Package Contents

Upon unpacking, please verify that all items listed below are present and in good condition:

- 1 x Controller
- 1 x KT-LCD5 Display Meter
- 1 x Display Meter Manual (separate document, if provided)
- 1 x Thumb Throttle
- 1 x Pedal Assist Sensor (PAS)
- 1 x Wiring Diagram (separate document, if provided)



Image 1.1: Overview of the VGEBY Electric Bicycle Controller Kit KT-LCD5, showing the controller, display, thumb throttle, and pedal assist sensor.

2. Safety Information

Always prioritize safety when working with electrical components and operating an electric bicycle. Failure to follow safety guidelines can result in injury or damage to the product.

- **Professional Installation Recommended:** If you are unfamiliar with electrical wiring or bicycle mechanics, seek assistance from a qualified technician.
- **Power Disconnection:** Always disconnect the battery power before performing any installation, maintenance, or troubleshooting.
- **Water Exposure:** Avoid exposing the controller and display to heavy rain or immersion in water. While components may be splash-resistant, they are not fully waterproof.
- **Voltage Compatibility:** Ensure your motor and battery are compatible with the controller's voltage (36V/48V).
- **KT-LCD5 Compatibility:** The KT-LCD5 display is exclusively designed for KT series controllers. It is not compatible with controllers from other manufacturers. Using it with non-KT controllers may cause malfunction or damage.



Image 2.1: The KT-LCD5 display and controller, highlighting the importance of using the display only with compatible KT series controllers.

3. Setup and Installation

Follow these steps carefully to install your electric bicycle controller kit. Refer to the provided wiring diagram for detailed connection points.

3.1 Component Identification



Image 3.1: Individual components including the KT-LCD5 display, thumb throttle, pedal assist sensor, and controller with its wiring harness.

3.2 Installation Steps

1. **Mount the Controller:** Securely mount the controller to your bicycle frame in a location protected from physical damage and moisture. Ensure adequate airflow for cooling.
2. **Install the Display:** Attach the KT-LCD5 display to your handlebar. Position it for easy viewing and access to buttons while riding.
3. **Install the Thumb Throttle:** Mount the thumb throttle on your handlebar, typically on the left or right side depending on preference.
4. **Install the Pedal Assist Sensor (PAS):** Install the PAS sensor on your bicycle's bottom bracket, ensuring the magnet disc is correctly aligned with the sensor.
5. **Connect Wiring:** Carefully connect each component to the controller according to the provided wiring diagram. Ensure all connections are firm and secure. The controller interface is designed for plug-and-play functionality with compatible accessories.

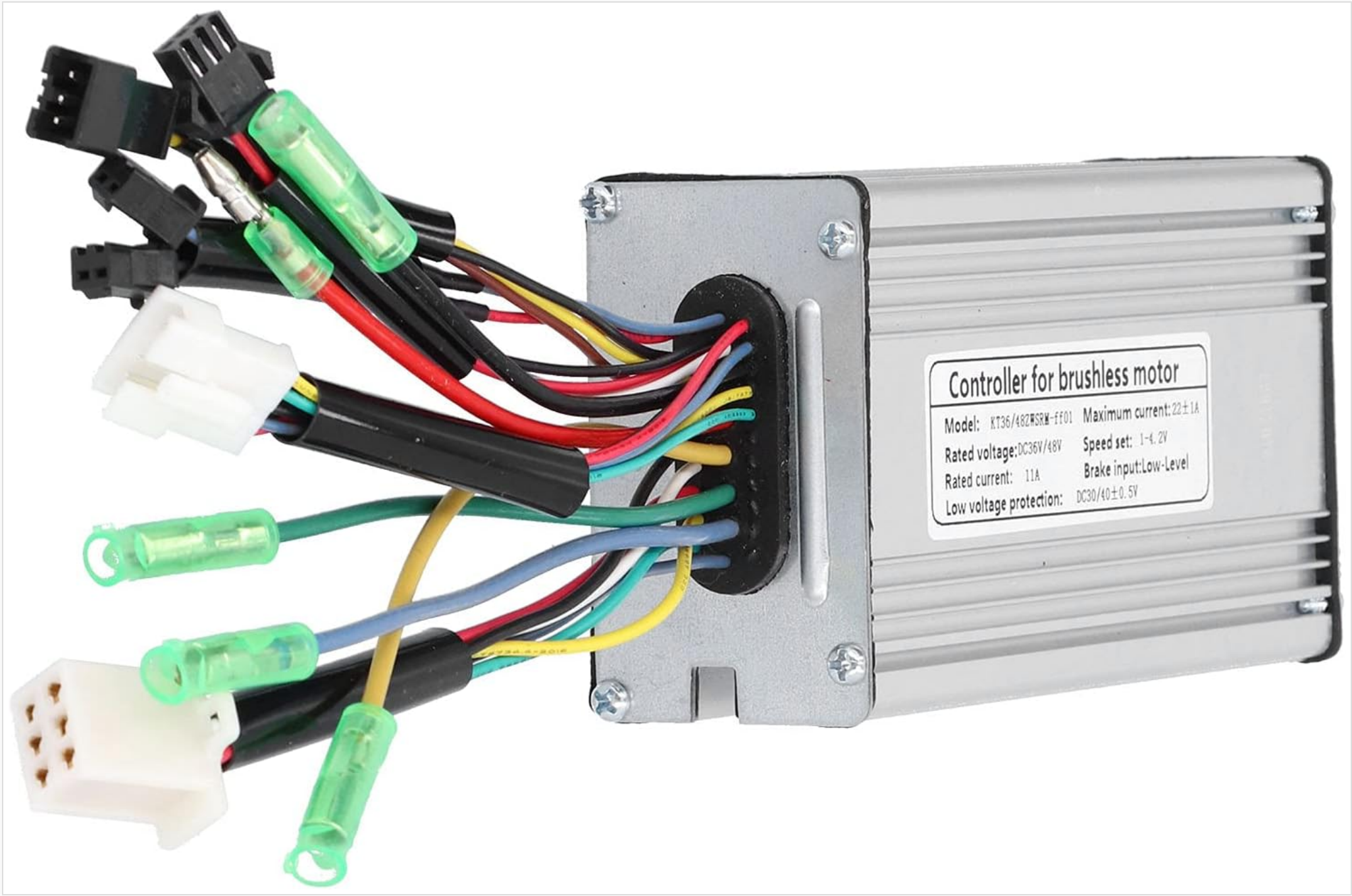

Controller for brushless motor
Model: KT36/48ZHSRM-ff01
Maximum current: 22±1A
Rated voltage: DC36V/48V
Speed set: 1-4.2V
Rated current: 11A
Brake input: Low-Level
Low voltage protection: DC30/40±0.5V

Image 3.2: Detailed view of the controller's wiring harness, showing the various connectors for different components.



Image 3.3: The pedal assist sensor (left) and thumb throttle (right), ready for installation on the bicycle.

4. Operating Instructions

Once installed, the KT-LCD5 display provides an intuitive interface for controlling your electric bicycle.

4.1 Power On/Off

Press and hold the power button on the KT-LCD5 display to turn the system on or off. The display will illuminate and show various riding parameters.

4.2 Display Functions

The KT-LCD5 display typically shows:

- Current Speed
- Battery Level
- Assistance Level (PAS level)
- Trip Distance / Odometer
- Error Codes (if any)



Image 4.1: The KT-LCD5 display showing operational data such as speed and distance during use.

4.3 Speed Adjustment

The controller supports a speed adjustment range of 1 to 4.2V, typically controlled via the thumb throttle. The display allows you to select different levels of pedal assistance, which influences the motor's power output.

4.4 Performance Characteristics

The controller is designed for optimal performance, offering:

- Smooth operation with minimal noise and vibration.
- High efficiency and lower current consumption.
- Reduced temperature rise, contributing to increased continuous mileage.

5. Maintenance

Regular maintenance ensures the longevity and reliable performance of your electric bicycle controller kit.

- **Cleaning:** Keep the controller and display clean. Use a soft, damp cloth to wipe surfaces. Avoid abrasive cleaners

or solvents.

- **Connections:** Periodically check all electrical connections for tightness and corrosion. Ensure wires are not pinched or damaged.
- **Physical Inspection:** Inspect the controller casing, display, throttle, and PAS sensor for any signs of physical damage.
- **Storage:** When not in use for extended periods, store the bicycle in a dry, temperate environment.

6. Troubleshooting

This section addresses common issues you might encounter with your controller kit.

6.1 Common Issues and Solutions

- **Display Not Turning On:**
  - Check battery connection and charge level.
  - Verify the display's power cable is securely connected to the controller.
- **Motor Not Responding:**
  - Ensure the controller is powered on and the display is active.
  - Check all motor phase wires and Hall sensor connections to the controller.
  - Verify throttle and PAS sensor connections.
  - Check for any error codes displayed on the KT-LCD5. Refer to the display manual for specific error code meanings.
- **Inconsistent Power Output:**
  - Inspect PAS sensor alignment and magnet disc for proper function.
  - Check throttle for smooth operation and proper connection.

If issues persist after performing these checks, please contact customer support.

7. Technical Specifications

Feature	Specification
Product Type	Electric Bicycle Controller Kit
Brand	VGEBY
Model	KT-LCD5
Material	Aluminum Alloy (Controller), Plastic (Display)
Color	As shown in images
Rated Current	11A
Rated Voltage	DC36V / 48V
Speed Adjustment	1 to 4.2V
Low Voltage Protection	DC30 / 40 ± 0.5V

Feature	Specification
Maximum Current	22 ± 1A
Weight (Approx.)	692.0 g / 24.4 oz
Dimensions (L x W x H)	1 x 1 x 1 cm (Product dimensions, actual component sizes vary)
Compatible Motor Power	500W

8. Warranty and Support

For warranty information, please refer to the specific warranty policy provided by VGEBY or the retailer from whom you purchased this product. Typically, electronic components come with a limited warranty against manufacturing defects. If you require technical assistance, have questions about installation, or need to report a defect, please contact the seller or VGEBY customer support directly. Ensure you have your purchase details and product model number (KT-LCD5) available when contacting support.

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