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› FUZHUI 36V/48V 350W Electric Motor Controller Kit with KT LCD5 Display Panel Instruction Manual

FUZHUI FUZHUI2mconkzw68

FUZHUI 36V/48V 350W Electric Motor Controller Kit with KT LCD5 Display Panel Instruction Manual

INTRODUCTION

This instruction manual provides essential information for the installation, operation, and maintenance of the FUZHUI 36V/48V 350W Electric Motor Controller Kit. This kit is designed for DIY electric bicycles, offering efficient and stable control for 36V/48V 350W brushless motors. It includes a KT 17A controller, a KT LCD5 display panel, a thumb throttle, and a power assist magnetic point. The components are constructed from high-quality aluminum alloy and plastic, ensuring durability and reliable performance. The system provides steady and sensitive control for speed, braking, and direction changes.

PACKAGE CONTENTS

The complete package includes the following components:

- 1 x KT 17A Controller
- 1 x KT LCD5 Display Panel
- 1 x Display Panel Manual
- 1 x Thumb Throttle
- 1 x Power Assist Magnetic Point
- 1 x Wiring Diagram

Ordinary SM plug

KT 17A controller is more stable and has high efficiency, low current consumption and long service life.

Provide stable speed and sensitive braking and direction change control.

KT LCD5 display panel is only applicable to KT series controllers, not applicable to other controllers.

Suitable for 36V/48V 350W motors.

High performance, suitable for DIY electric bicycles.

Made of high quality aluminum alloy and plastic, strong and durable.



Image: Overview of the FUZHUI Electric Motor Controller Kit components.



Image: All components of the FUZHUI Electric Motor Controller Kit.

SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your electric bicycle. Always ensure the power is disconnected before performing any installation steps.

1. **Review Wiring Diagram:** Carefully study the included wiring diagram to understand all connections.
2. **Mount Controller:** Securely mount the KT 17A controller to your electric bicycle frame. Ensure it is in a location that allows for adequate ventilation and protection from physical damage and moisture.
3. **Mount Display Panel:** Attach the KT LCD5 display panel to your handlebars in a position that is easily visible and accessible during operation.
4. **Install Thumb Throttle:** Mount the thumb throttle on the handlebars, ensuring comfortable access for speed control.
5. **Install Power Assist Magnetic Point:** Attach the power assist magnetic point to the pedal crank. Ensure the sensor and magnet are correctly aligned according to the wiring diagram.
6. **Connect Components:** Following the wiring diagram, connect all components (motor, battery, display, throttle, power assist sensor, brake levers if applicable) to the controller. Pay close attention to connector types and polarity.
7. **Secure Connections:** Double-check all connections to ensure they are firm and properly insulated. Avoid loose wires.



Image: Detailed view of the controller and connected components, illustrating wiring points.



Image: The controller unit with its specification label visible.

OPERATING INSTRUCTIONS

Once installed, the system is ready for operation. Familiarize yourself with the display and throttle functions before riding.

KT LCD5 Display Panel

The KT LCD5 display panel is specifically designed for KT series controllers and provides real-time information and control over your electric bike's system.

- **Power On/Off:** Press and hold the power button on the display to turn the system on or off.
- **Information Display:** The display shows various parameters such as current speed, battery level, assist level, trip distance, and total distance.
- **Assist Level Adjustment:** Use the up/down buttons to cycle through different pedal assist levels (PAS). Higher levels provide more motor assistance.
- **Settings:** Refer to the separate KT LCD5 Display Panel Manual for detailed instructions on accessing and adjusting advanced settings.

Thumb Throttle

The thumb throttle allows for manual speed control, independent of pedal assist.

- **Acceleration:** Gently press the thumb lever to engage the motor and accelerate. The further you press, the more power is delivered.
- **Deceleration:** Release the thumb lever to reduce power and decelerate.
- **Safety:** Always use the throttle responsibly and be aware of your surroundings.

MAINTENANCE

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

- **Cleaning:** Keep the controller, display, and throttle clean and free from dust, dirt, and moisture. Use a soft, damp cloth for cleaning. Do not use harsh chemicals or abrasive materials.
- **Moisture Protection:** Avoid exposing the components to heavy rain or submerging them in water. While designed for outdoor use, excessive moisture can damage electronics.
- **Connection Inspection:** Periodically inspect all electrical connections for signs of corrosion, wear, or looseness. Tighten any loose connections and replace damaged wiring immediately.
- **Heat Dissipation:** Ensure the controller's aluminum alloy casing, which acts as a heatsink, is not obstructed. Good airflow is essential for proper heat dissipation.
- **Cable Management:** Ensure all cables are neatly routed and secured to prevent snagging or damage during riding.

TROUBLESHOOTING

This section addresses common issues you might encounter. For more detailed troubleshooting, refer to the specific manuals for the KT LCD5 display and controller.

- **System Not Powering On:**
 - Check the battery connection and ensure the battery is charged.
 - Verify that the display panel is correctly connected to the controller.
 - Ensure the power button on the display is pressed and held sufficiently.
- **Motor Not Responding:**
 - Check all motor phase wire connections and Hall sensor connections.
 - Verify the thumb throttle connection and functionality.
 - Ensure the brake levers are not engaged (some systems have cut-off switches).
 - Check for error codes on the LCD display.
- **Inconsistent Power Assist:**
 - Inspect the power assist magnetic point sensor and magnet for proper alignment and cleanliness.
 - Ensure the sensor cable is securely connected to the controller.
- **Display Not Showing Correct Information:**
 - Ensure all display connections are secure.
 - Refer to the KT LCD5 Display Panel Manual for calibration or setting adjustments.

SPECIFICATIONS

Key technical specifications for the FUZHUI Electric Motor Controller Kit:

Feature	Specification
Item Type	Electric Motor Controller Kit
Material	Aluminum Alloy + Plastic
Controller Box Size	Approx. 9.4x6.1x3.5cm / 3.7x2.4x1.4in
Rated Current	8A
Rated Voltage	DC 36V / 48V universal
Speed Setting	1-4.2V
Low Voltage Protection	DC30 / 40±0.5V
Maximum Current	17±1A
Product Weight	Approx. 590g / 20.8oz (Kit)
Item Weight (Shipping)	1.3 pounds
Model Number	FUZHUI2mconkzw68

Controller Box Size: Approx. 9.4x6.1x3.5cm / 3.7x2.4x1.4in
9.4cm / 3.7in
6.1cm / 2.4in
3.5cm / 1.4in



Image: Controller box dimensions.

WARRANTY AND SUPPORT

For information regarding product warranty, returns, or technical support, please refer to the purchase documentation or contact the seller directly. The manufacturer, FUZHUI, can also be contacted for specific product inquiries.

