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› YiYun 1000 Watt - 48V Brushed Motor Controller (YK33F) Instruction Manual

YiYun YK33F

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Model: YK33F

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the YiYun 1000 Watt - 48V Brushed Motor Controller, model YK33F. This controller is designed for use with brushed (also known as "PM" or "Magnet") motors, commonly found in applications such as electric scooters. The YK33F is similar in function to the LB37 controller.

Please read this manual thoroughly before installation and use to ensure safe and efficient operation of your motor controller.

PRODUCT OVERVIEW

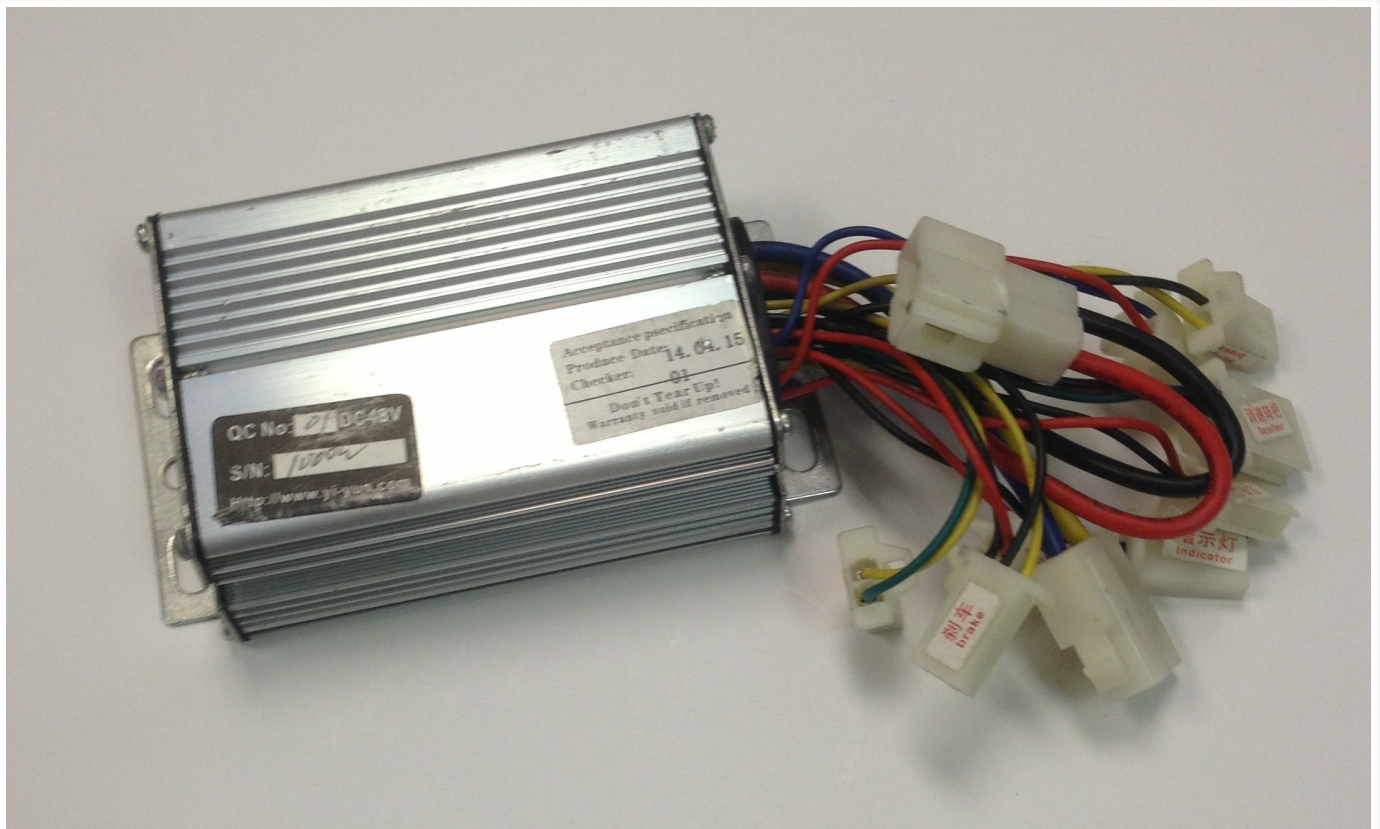


Image: The YiYun 1000 Watt - 48V Brushed Motor Controller (YK33F). This image displays the compact design of the controller with various wire harnesses for connections.

The YiYun YK33F is a 1000 Watt, 48 Volt brushed motor controller. It is designed to manage power delivery to a brushed DC motor, enabling variable speed control for compatible electric vehicles or systems.

SETUP AND WIRING

Proper wiring is critical for the safe and correct operation of the motor controller. Refer to the diagram below and the following connection descriptions.

Wiring Connections:

- **Thick Red/Black:** Battery Connection (Red: Positive (+), Black: Negative (-))
- **Thick Blue/Yellow:** Motor Connection
- **Thin Yellow/Black (Brake Switch 1):** Brake Switch (Disables throttle when closed)
- **Thin Yellow/Black (Brake Switch 2):** Brake Switch (Disables throttle when closed)
- **Thin Green/Black/Red (Throttle):** Throttle Input (Red: +5V, Black: Ground, Green: Signal)
- **Thin Black/Red (Charging Port):** Charging Port Connection
- **Thin Black/Red (Indicator):** Power Indicator Light (Provides full pack voltage when power/key is on)
- **Thin Black/Red (Brake Light):** Brake Light Connection
- **Thin Blue/Red (Power Locks):** Key or Power Switch (Closes circuit to turn power on)
- **Thin Green/Yellow (Sport):** Unused

Ensure all connections are secure and correctly polarized before applying power. Incorrect wiring can damage the controller or other components.

OPERATING INSTRUCTIONS

Once the controller is correctly wired and installed, follow these steps for operation:

1. **Power On:** Turn the key or power switch connected to the "Power Locks" wires to the ON position. The power indicator light (if connected) should illuminate.
2. **Throttle Control:** Gently apply the throttle. The motor speed should increase proportionally with the throttle input.
3. **Braking:** Activating the brake switch will disable the throttle, allowing the motor to coast or engage regenerative braking if supported by the motor/system.
4. **Power Off:** Turn the key or power switch to the OFF position to cut power to the controller and motor.

Always operate the system within its specified voltage and current limits. Avoid sudden, aggressive throttle inputs to prolong component life.

MAINTENANCE

The YiYun YK33F motor controller is designed for durability, but regular checks can help ensure its longevity and optimal performance.

- **Visual Inspection:** Periodically inspect the controller and its wiring for any signs of damage, corrosion, or loose connections.
- **Cleanliness:** Keep the controller free from dust, dirt, and moisture. Use a dry, soft cloth for cleaning. Do not use liquid cleaners directly on the controller.
- **Ventilation:** Ensure the controller is installed in a location with adequate airflow to prevent overheating.
- **Connection Integrity:** Verify that all wire connections remain secure. Loose connections can lead to intermittent operation or damage.

TROUBLESHOOTING

If you encounter issues with your motor controller, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Motor does not operate	No power to controller; Loose wiring; Faulty throttle; Engaged brake switch	Check battery connection and voltage; Verify all wiring connections; Test throttle output; Ensure brake switch is disengaged
Intermittent motor operation	Loose connections; Damaged wiring	Inspect and secure all wiring connections; Check for frayed or damaged wires
Controller overheats	Insufficient ventilation; Overload; Internal component issue	Ensure adequate airflow around controller; Reduce load on motor; If problem persists, professional inspection may be required
Motor runs at full speed without throttle input	Faulty throttle; Short circuit in throttle wiring	Disconnect throttle and check if motor stops; Replace throttle if necessary; Inspect throttle wiring for damage

If troubleshooting steps do not resolve the issue, contact customer support for further assistance.

SPECIFICATIONS

- **Model:** YK33F

- **Power Output:** 1000 Watts
- **Voltage:** 48 Volts
- **Motor Type:** Brushed DC Motor
- **Brand:** YiYun
- **Manufacturer:** YiYUN
- **UPC/GTIN:** 704335371131

WARRANTY INFORMATION

This product is covered by a limited warranty against manufacturing defects. Please refer to your purchase documentation or contact the retailer for specific warranty terms and conditions. The warranty typically covers defects in materials and workmanship under normal use.

Damage resulting from improper installation, misuse, neglect, unauthorized modifications, or operation outside of specified parameters is not covered by the warranty.

CUSTOMER SUPPORT

For technical assistance, warranty claims, or general inquiries, please contact your point of purchase or the manufacturer directly. When contacting support, please have your product model number (YK33F) and purchase details readily available.

Manufacturer: YiYUN

(Contact information such as website or email may be available on the product packaging or retailer's website.)

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question