



[Manuals.plus](#) /

› [Kunray](#) /

› Kunray 48V 1000W Brushed DC Motor Kit Instruction Manual

## Kunray 48V 1000W Brushed DC Motor Kit

# Kunray 48V 1000W Brushed DC Motor Kit Instruction Manual

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Kunray 48V 1000W Brushed DC Motor Kit. This kit is designed for various electric vehicles, including e-bikes, dirt bikes, ATVs, go-karts, mopeds, mini bikes, and motorized bicycles. Please read this manual thoroughly before use to ensure proper function and safety.



Figure 1: Overview of the Kunray 48V 1000W Brushed DC Motor Kit components.

## 2. SAFETY INFORMATION

Always prioritize safety when working with electrical components. Failure to follow these safety guidelines may result in injury or damage to the product.

- Ensure the power source is disconnected before performing any installation, maintenance, or troubleshooting.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and gloves.
- Avoid contact with moving parts of the motor during operation.
- Do not expose electrical components to water or excessive moisture.
- Verify all connections are secure and correctly wired before applying power.
- Keep children and unauthorized personnel away from the work area.

## 3. KIT COMPONENTS

The Kunray 48V 1000W Brushed DC Motor Kit typically includes the following main components:

- **48V 1000W Brushed DC Motor:** A high-speed motor with a rated speed of 3000 RPM, featuring a robust metal casing and cooling holes for heat dissipation. It includes an 8mm T8F chain sprocket.
- **DC Brush Controller:** A high-quality controller with a three-speed function, compatible with 48V 1000W motors.
- **Gas Accelerator Throttle:** Aluminum alloy handlebars throttle for precise speed control.
- **Ignition Lock:** For secure power control.
- **Accessories:** Includes wrenches and screw set for installation.



Figure 2: Motor details, highlighting the stable metal bracket, T8F 11T sprocket, and cooling holes.



## NOTE!

Due to manual measurement, there is 1-2mm error



Figure 3: Motor dimensions for installation planning.



## Our Throttle

## Other Throttle

Aluminum Alloy Throttle



Rubber Throttle



Fine workmanship, excellent feel



Rough production and poor feel



Not easy to damage



Easily damaged



High-quality products are worth your choice

Figure 4: The included aluminum alloy throttle offers enhanced durability and feel compared to standard rubber throttles.

## 4. SETUP AND WIRING INSTRUCTIONS

Follow these steps to correctly connect the motor, controller, throttle, and ignition lock. Refer to the wiring diagram and video for visual guidance.

1. **Connect Motor to Controller:** Connect the motor wires (red and black) to the corresponding motor phase wires on the controller. The controller typically has blue and yellow wires for the motor phase.
2. **Connect Battery to Controller:** Connect your 48V battery to the battery input wires on the controller (red for positive, black for negative).
3. **Connect Ignition Lock:** Connect the ignition lock to the designated E-Lock port on the controller.
4. **Connect Throttle:** Connect the gas accelerator throttle to the throttle port on the controller.
5. **Optional Connections:** Connect indicator lights, brake levers, and the 3-speed switch to their respective ports on the controller if your setup includes these features.

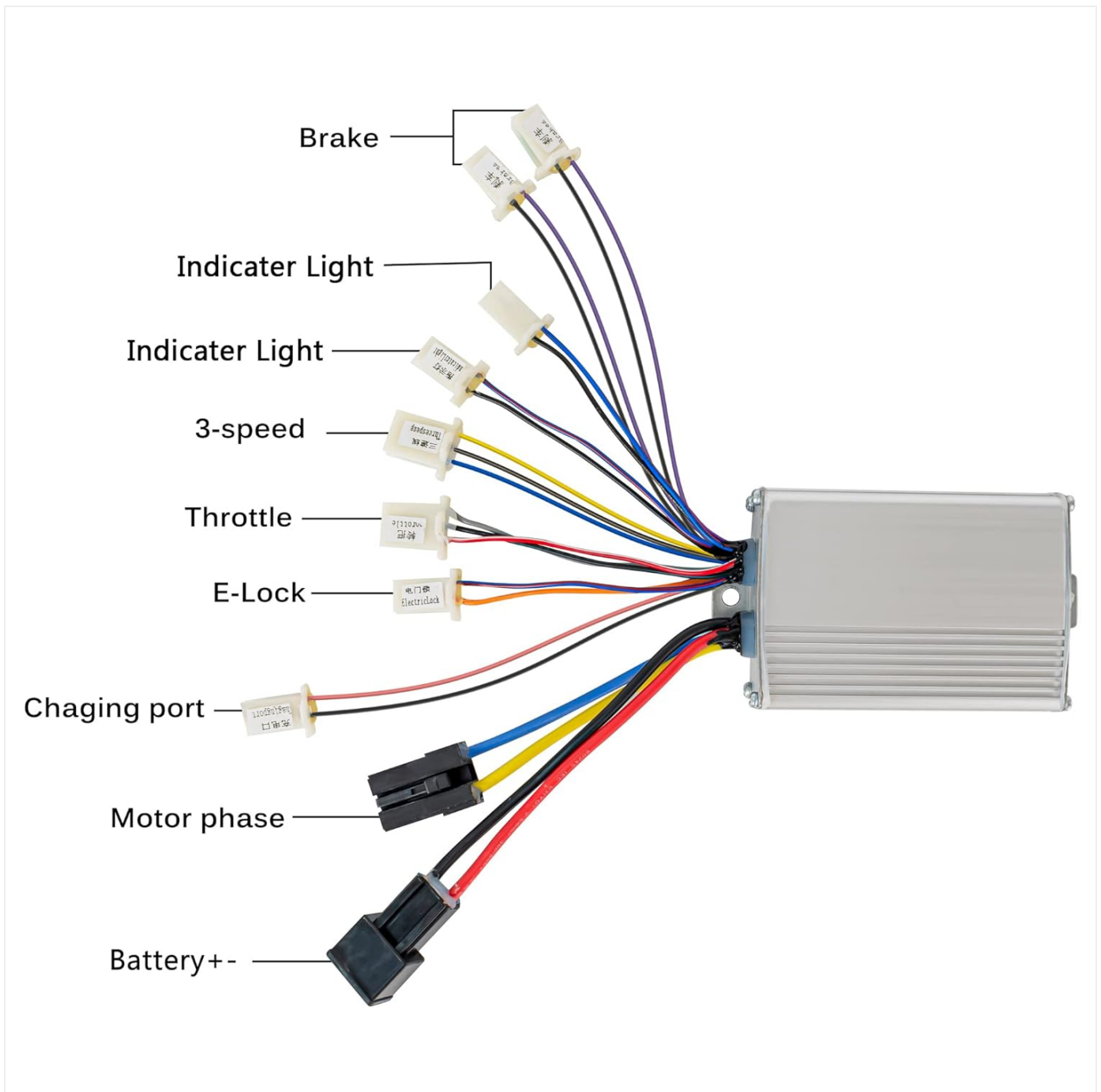


Figure 5: Controller wiring diagram for proper connection of all components.

Your browser does not support the video tag.

Video 1: This video demonstrates the wiring process for the Kunray 48V 1000W brushed motor kit, showing how to connect the motor, controller, throttle, and ignition lock. It also illustrates how to reverse motor rotation by swapping specific wires.

## 5. OPERATING INSTRUCTIONS

Once all components are securely connected, you can begin operating your electric vehicle.

1. **Power On:** Insert the key into the ignition lock and turn it to the 'ON' position.
2. **Throttle Control:** Gently twist the gas accelerator throttle to engage the motor. The motor speed will increase as you twist the throttle further.
3. **Speed Modes:** If your controller features a 3-speed function, use the designated switch to select between low, medium, and high-speed modes.
4. **Braking:** Apply the brake levers to slow down or stop the vehicle. The controller is designed to cut power to the

motor when brakes are engaged.

5. **Power Off:** Turn the ignition key to the 'OFF' position to power down the system.

Your browser does not support the video tag.

Video 2: This video demonstrates the operation and speed testing of the 48V 1000W brushed motor kit, showcasing its performance and responsiveness with the throttle and controller.

## 6. MAINTENANCE

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

- **Motor Inspection:** Periodically check the motor for any signs of wear, damage, or loose connections. Ensure cooling holes are clear of debris.
- **Sprocket and Chain:** Inspect the sprocket and chain for wear and proper tension. Lubricate the chain as needed.
- **Electrical Connections:** Verify all wiring connections are tight and free from corrosion.
- **Cleaning:** Keep the motor and controller clean and free from dirt, dust, and moisture. Use a dry cloth for cleaning.
- **Storage:** When not in use for extended periods, store the kit in a dry, cool place away from direct sunlight and extreme temperatures.

## 7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Motor does not run	No power, loose connections, faulty ignition lock, faulty controller.	Check battery charge, verify all wiring connections, test ignition lock, inspect controller.
Motor runs intermittently	Loose wiring, poor throttle connection, overheating.	Secure all connections, check throttle wiring, allow motor to cool if overheating.
Motor lacks power	Low battery charge, incorrect speed mode, motor overload.	Charge battery, select higher speed mode, reduce load on the motor.
Motor makes unusual noise	Loose parts, worn bearings, foreign object in motor.	Inspect for loose components, check bearings, remove any obstructions.

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

## 8. SPECIFICATIONS

Feature	Detail
Product Dimensions	4.72"W x 4.45"H (Motor)
Weight	Approximately 13.23 Pounds
Voltage	48 Volts DC
Output Power	1000 Watts

Feature	Detail
Rated Current	27A
Rated Speed	3000 RPM
Horsepower	1.4 HP
Torque	2.8 N.m
Sprocket	For 8mm T8F chain

## 9. WARRANTY AND SUPPORT

---

Kunray offers a warranty for its products. The motor and controller are covered for one year, while other parts have a six-month warranty period. If you encounter any issues during use or have missing parts upon receipt, please contact our after-sales team or online staff immediately. We are committed to providing prompt and helpful service.

For further assistance, please visit the [Kunray Store on Amazon](#) or contact our customer support directly.

