

Yosoo MY1016

Yosoo MY1016 24V 250W Brushed Electric Motor

Instruction Manual

INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Yosoo MY1016 24V 250W Brushed Electric Motor. This motor is designed for use in small electric vehicles, electric scooters, and e-bikes. Please read this manual thoroughly before attempting any installation or operation.

SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the motor and associated equipment:

- **Disconnect Power:** Always ensure the power supply is disconnected before performing any installation, maintenance, or troubleshooting.
- **Professional Installation:** If you are unsure about any steps, seek assistance from a qualified technician.
- **Electrical Connections:** Ensure all electrical connections are secure and properly insulated to prevent short circuits.
- **Environmental Conditions:** Avoid exposing the motor to water, excessive moisture, or extreme temperatures.
- **Moving Parts:** Keep hands, clothing, and tools clear of moving parts during operation.

PRODUCT OVERVIEW

The Yosoo MY1016 is a compact, high-speed brushed DC motor constructed from durable aluminum material. It features a permanent magnet design, providing reliable performance for various light electric vehicle applications. The motor includes an integrated mounting bracket and a 10-tooth sprocket for chain drive systems.



Image: The Yosoo MY1016 Brushed Electric Motor shown alongside a small electric scooter, illustrating its intended application.

SPECIFICATIONS

Detailed technical specifications for the MY1016 24V 250W motor:

Parameter	Value
Model	MY1016
Material	Aluminum
Voltage	24 VDC
Rated Output Power	250W
Rated Speed	2650 RPM

Parameter	Value
Rated Current	≤ 13.7A
No-load Current	0.7-1.4A
Rated Torque	0.9 N.m
Applicable Chain	25H chain
Sprocket	25H 10T sprocket
Mounting Hole Spacing	42-95 mm (4 holes total)
Trunnion Length	95 mm



Image: Side view of the MY1016 motor, clearly displaying the specification label with model, voltage, rated speed, current, and output power.

SETUP AND INSTALLATION

The MY1016 motor is designed for straightforward installation. Follow these steps carefully:

1. Mounting the Motor

1. Identify a suitable mounting location on your vehicle frame that allows for proper chain alignment and clearance.
2. Position the motor's integrated bracket against the mounting surface. The bracket has four mounting holes with spacing between 42-95 mm.
3. Mark the drilling points if necessary, then drill appropriate holes in the frame.
4. Secure the motor using suitable bolts, washers, and nuts (not included), ensuring it is firmly attached and stable.



Image: Angled view of the MY1016 motor, highlighting the robust integrated mounting bracket for secure attachment.



Image: Top view of the MY1016 motor, showing the 10-tooth sprocket and the four mounting holes on the bracket.

2. Electrical Wiring

1. Ensure the power source (e.g., 24V battery) is completely disconnected.
2. Connect the motor's red wire to the positive (+) terminal of your 24V DC power supply.
3. Connect the motor's black wire to the negative (-) terminal of your 24V DC power supply.
4. Verify all connections are tight and properly insulated to prevent any short circuits or accidental disconnections.
5. It is recommended to use an appropriate motor controller (not included) for speed regulation and protection. Connect the motor to the controller according to the controller's instructions.



Image: Close-up view of the motor's red and black power wires, ready for connection to a power source or controller.

3. Chain Installation

1. Install the 25H chain onto the motor's 10T sprocket and the driven sprocket on your vehicle.
2. Adjust chain tension to ensure it is neither too tight nor too loose. Proper tension prevents excessive wear and ensures efficient power transfer.

OPERATING INSTRUCTIONS

Once the motor is correctly installed and wired, you can begin operation:

- **Initial Test:** Before full operation, perform a brief test to ensure the motor spins freely and in the correct direction.
- **Speed Control:** If using a motor controller, adjust the speed gradually to avoid sudden jolts or excessive strain on the motor.
- **Load Management:** Avoid overloading the motor beyond its rated capacity (250W) to prevent overheating and premature wear.
- **Monitoring:** During initial use, monitor the motor for any unusual noises, vibrations, or excessive heat.

MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your motor:

- **Cleaning:** Periodically clean the exterior of the motor to remove dust, dirt, and debris. Use a dry cloth; avoid using water or harsh chemicals.
- **Inspection:** Regularly inspect the motor for any signs of damage, loose connections, or wear on the sprocket.
- **Brush Replacement:** As a brushed motor, the carbon brushes will wear over time. Consult a qualified technician for brush inspection and replacement if performance degrades significantly.
- **Storage:** When not in use for extended periods, store the motor in a dry, clean environment away from direct sunlight and extreme temperatures.

TROUBLESHOOTING

Refer to the table below for common issues and their potential solutions:

Problem	Possible Cause	Solution
Motor does not start	No power supply; Loose wiring; Faulty controller; Worn brushes	Check battery and power connections; Secure all wires; Test controller; Inspect and replace brushes if necessary
Motor runs slowly or weakly	Low battery voltage; Overload; Worn brushes; Incorrect wiring	Charge battery; Reduce load; Inspect and replace brushes; Verify wiring connections
Motor overheats	Excessive load; Prolonged operation; Insufficient ventilation	Reduce load; Allow motor to cool; Ensure adequate airflow around the motor
Unusual noise or vibration	Loose mounting; Damaged bearings; Chain misalignment	Tighten mounting bolts; Consult technician for bearing replacement; Adjust chain tension and alignment

WARRANTY AND SUPPORT

Specific warranty information for the Yosoo MY1016 Brushed Electric Motor is not provided within this manual. For details regarding warranty coverage, return policies, or technical support, please refer to the seller or the original point of purchase. Keep your purchase receipt as proof of purchase.

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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