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Kuayi MY1020

Kuayi MY1020 36V 800W DC Electric Brush Motor Instruction Manual

INTRODUCTION

This instruction manual provides essential information for the safe and effective installation, operation, and maintenance of your Kuayi MY1020 36V 800W DC Electric Brush Motor. Please read this manual thoroughly before using the product to ensure proper function and to prevent damage or injury. Keep this manual for future reference.

PRODUCT OVERVIEW

The Kuayi MY1020 is a robust 36V 800W DC electric brush motor designed for various light electric vehicle applications. Its durable aluminum body and copper movement ensure reliable performance. The motor features an 11-tooth sprocket compatible with a #25H chain and supports both clockwise (forward) and counter-clockwise (reverse) operation.

Key Features:

- **Power Output:** 800W at 36V DC
- **Construction:** All-aluminum body with copper movement
- **Sprocket:** 11-tooth, compatible with #25H chain
- **Operation:** Forward (clockwise) and Reverse (counter-clockwise) capabilities
- **Efficiency:** Equal to or greater than 75%
- **Applications:** Suitable for tricycles, bicycles, e-scooters, go-karts, ATVs, mopeds, and mini bikes



Image 1: The Kuayi MY1020 36V 800W DC Electric Brush Motor, shown from a top-front angle, highlighting its compact design and the output sprocket.

SAFETY INFORMATION

Always prioritize safety when working with electrical components. Failure to follow these safety guidelines may result in electric shock, fire, or serious injury.

- **Disconnect Power:** Always ensure the power source is disconnected before performing any installation, maintenance, or troubleshooting.
- **Proper Wiring:** All electrical connections must be secure and insulated to prevent short circuits. Consult a qualified electrician if unsure.
- **Ventilation:** Ensure adequate ventilation around the motor during operation to prevent overheating.
- **Personal Protective Equipment (PPE):** Wear appropriate safety gear, such as gloves and eye protection, when handling the motor and its components.
- **Avoid Water:** Do not expose the motor to water or excessive moisture.
- **Secure Mounting:** Ensure the motor is securely mounted to prevent movement or detachment during operation.
- **Children and Pets:** Keep children and pets away from the motor and its operating area.

SETUP AND INSTALLATION

1. Mounting the Motor

The motor features integrated mounting brackets for secure attachment. Ensure the mounting surface is flat and robust enough to support the motor's weight and operational forces. Use appropriate fasteners (not included) to secure the motor firmly.



Image 2: A dimensional drawing of the Kuayi MY1020 motor, illustrating key measurements such as diameter, length, bracket width, and sprocket size (11T).

2. Electrical Connections

The motor requires a 36V DC power supply. Connect the motor's red wire to the positive (+) terminal of your 36V power source and the black wire to the negative (-) terminal. Ensure all connections are tight and properly insulated. The motor is designed for both forward and reverse operation; the direction is determined by the polarity of the power supply or through a suitable motor controller (not included).



Image 3: Side view of the Kuayi MY1020 motor, showing the attached wiring harness with red and black wires, and the product label with specifications.

MAINTENANCE

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

- **Cleanliness:** Keep the motor free from dirt, dust, and debris. Use a dry cloth or compressed air for cleaning.
- **Connections:** Periodically inspect all electrical connections for tightness and corrosion.
- **Sprocket and Chain:** Check the sprocket for wear and ensure the chain is properly lubricated and tensioned.
- **Ventilation Holes:** Ensure the ventilation holes on the motor casing are clear and unobstructed to allow for proper cooling.



Image 5: Top view of the Kuayi MY1020 motor, highlighting the ventilation holes on the silver end cap, crucial for heat dissipation.

TROUBLESHOOTING

This section addresses common issues you might encounter with the motor.

Problem	Possible Cause	Solution
Motor does not start	No power supply; Loose wiring; Faulty controller (if used)	Check power source; Inspect all connections; Test controller functionality.
Motor runs slowly or with reduced power	Low voltage; Overload; Worn brushes; Excessive chain tension	Verify 36V supply; Reduce load; Inspect/replace brushes; Adjust chain tension.
Motor overheats	Overload; Insufficient ventilation; Prolonged operation	Reduce load; Ensure clear ventilation; Allow motor to cool periodically.
Unusual noise or vibration	Loose mounting; Worn bearings; Damaged sprocket/chain	Tighten mounting bolts; Inspect bearings; Check sprocket and chain for damage.

TECHNICAL SPECIFICATIONS

Specification	Value
Model Number	MY1020-800W
Voltage	36 Volts DC
Rated Power	800 Watts
Rated Speed	2800 RPM
Rated Current	29.2 Amps
Rated Torque	2.8 N.m
Efficiency	≥ 75%
Material	Aluminum
Item Weight	5.5 Kilograms
Sprocket	11-tooth
Compatible Chain	#25H Chain

WARRANTY AND SUPPORT

Specific warranty information for the Kuayi MY1020 36V 800W DC Electric Brush Motor is not provided in this manual. For details regarding warranty coverage, technical support, or replacement parts, please contact the manufacturer or your point of purchase directly. Ensure you have your product model number (MY1020) and purchase date available when seeking support.

