

Ejoyous Ejoyousu986r03ntk

Ejoyous 24V 500W DC Electric Brush Motor

Model: Ejoyousu986r03ntk

INTRODUCTION

This instruction manual provides essential information for the safe and efficient use of your Ejoyous 24V 500W DC Electric Brush Motor. Please read this manual thoroughly before installation and operation to ensure proper function and to prevent damage or injury. This motor is designed for various applications including electric scooters, electric bikes, quads, and go-karts.

SAFETY INFORMATION

- Always disconnect power before performing any installation, maintenance, or troubleshooting.
- Ensure all electrical connections are secure and properly insulated to prevent short circuits.
- Wear appropriate personal protective equipment (PPE) such as safety glasses and gloves during installation and maintenance.
- Do not operate the motor beyond its rated voltage or power specifications.
- Keep hands and loose clothing away from moving parts, especially the sprocket.
- If you are unsure about any installation or repair steps, consult a qualified professional.

PRODUCT FEATURES

- **High Performance:** Rated at 24V DC and 500W, providing strong and stable power output.
- **Flexible Rotation:** Capable of rotating both clockwise and counter-clockwise by reversing the power cable connections.
- **Durable Construction:** Equipped with wear-resistant metal gears to prevent tooth breakage and ensure a long service life.
- **Permanent Magnet Design:** Utilizes a permanent magnet design for consistent and reliable operation.
- **Quality Materials:** Constructed from high-quality raw materials for good gloss and a robust build.

SPECIFICATIONS

Parameter	Value
Rated Voltage	DC 24 V

Rated Power	500 W
Rated Speed	2500 RPM
Rated Current	27.8A (Model ZY1020) / 28.5A (Model MY1050)
Main Color	Black
Dimensions (approx.)	16 x 10.5 cm (6.29 x 4.13 inches)
Weight (approx.)	4.431 kg (9.77 lbs)
Model Number	Ejoyousu986r03ntk
Product Identifier	500-GM202106170412 (for ZY1020 variant)

Note: The product may be shipped with either the ZY1020 or MY1050 model variant, which have slightly different rated currents and speeds. Both are 24V 500W motors.



Image: Motor label for Model ZY1020, showing specifications and product identifier.



Image: Motor label for Model MY1050, showing specifications.

PACKAGE CONTENTS

- 1 x Ejoyous 24V 500W DC Electric Brush Motor

SETUP AND INSTALLATION

Proper installation is crucial for the motor's performance and longevity. It is recommended that installation be performed by individuals with appropriate technical knowledge.

1. **Mounting:** Securely attach the motor to the desired application using the integrated mounting bracket. Ensure all bolts are tightened to prevent vibration and misalignment.
2. **Electrical Connection:** Connect the motor's power cables to a compatible 24V DC power source. The motor has two wires (typically red and black). Connect the red wire to the positive (+) terminal and the black wire to the

negative (-) terminal of your power supply. To reverse the motor's rotation, simply swap the positive and negative connections.

3. **Sprocket/Chain Installation:** If applicable, install the chain onto the motor's sprocket and the driven component. Ensure proper chain tension to avoid slippage or excessive wear.
4. **Initial Test:** Before full operation, perform a brief test to confirm correct rotation and functionality.



Image: Various views of the motor and its electrical connections.



Image: Bottom view of the motor, highlighting mounting points.

OPERATING INSTRUCTIONS

Once installed, the motor can be operated by applying the rated 24V DC power. Ensure the power supply is stable and capable of delivering the required current (up to 28.5A for 500W). The motor will begin to rotate upon power application. For applications requiring variable speed, an appropriate motor controller (not included) must be used.

MAINTENANCE

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

- **Cleaning:** Keep the motor clean and free from dust, dirt, and debris. Use a dry cloth to wipe the exterior. Avoid using water or harsh chemicals.
- **Inspections:** Periodically inspect the motor for any signs of wear, damage, or loose connections. Check the mounting bolts for tightness.

- **Brush Inspection:** As a brush motor, the carbon brushes will wear over time. If performance degrades, inspect the brushes and replace them if necessary (consult a professional if unfamiliar with this procedure).
- **Lubrication:** The internal gears are designed for durability. Avoid applying external lubricants unless specifically recommended by the manufacturer for a particular application.

TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Motor does not start	No power, incorrect wiring, faulty power supply, worn brushes.	Check power connections, verify power supply, inspect brushes.
Motor runs slowly or with reduced power	Low voltage, excessive load, worn brushes, internal damage.	Check power supply voltage, reduce load, inspect/replace brushes.
Unusual noise or vibration	Loose mounting, damaged gears, bearing wear.	Tighten mounting bolts, inspect for physical damage.
Motor overheats	Excessive load, insufficient ventilation, prolonged operation.	Reduce load, ensure adequate airflow, allow for cooling periods.

If problems persist after attempting these solutions, please contact customer support.

WARRANTY AND SUPPORT

Ejoyous is committed to providing quality products and attentive service. If you have any questions during the purchase or use process, please do not hesitate to contact us. We will respond to your inquiries within 24 hours. Please note that the new and old types of this product may be shipped randomly. Ensure this does not concern you before ordering.



Image: Comparison of new and old motor models.

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.

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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.

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