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› Hosim 28/45 Brushless Motor Q901-DJ01 Instruction Manual

Hosim Q901-DJ01

Hosim 28/45 Brushless Motor Q901-DJ01 Instruction Manual

For High Speed Brushless RC Cars and Trucks

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Hosim 28/45 Brushless Motor, model Q901-DJ01. This motor is designed as an original accessory for high-speed brushless RC cars and trucks, specifically compatible with models like the Q903. Please read these instructions thoroughly before use to ensure optimal performance and longevity of the product.

2. PRODUCT OVERVIEW

The Hosim 28/45 Brushless Motor Q901-DJ01 is a high-performance component engineered for remote control vehicles requiring robust power and efficiency. As an original accessory, it guarantees compatibility and quality when used with specified Hosim models. This motor is built for durability and consistent performance in demanding RC applications.



Image 2.1: Front view of the Hosim 28/45 Brushless Motor Q901-DJ01, showing the green and silver ribbed casing with three black wires terminating in gold bullet connectors.



Image 2.2: Angled view of the Hosim 28/45 Brushless Motor Q901-DJ01, displaying the motor and two small mounting screws.

3. SETUP AND INSTALLATION

Proper installation is crucial for the motor's performance and safety. Always ensure your RC vehicle's power system (ESC, battery) is compatible with this brushless motor.

3.1. Required Tools

- Small Phillips head screwdriver
- Hex wrenches (for motor mounting screws, if applicable)
- Thread-locking compound (optional, for motor mounting screws)

3.2. Motor Mounting

1. **Remove Old Motor:** Carefully disconnect the wires and unmount the existing motor from your RC vehicle.
2. **Position New Motor:** Align the Hosim Q901-DJ01 motor with the mounting holes in your vehicle's motor mount.
3. **Secure Motor:** Use the provided screws (or existing compatible screws) to firmly attach the motor. Apply a small amount of thread-locking compound to the screws if desired to prevent loosening from vibrations. Ensure the motor is securely fastened but do not overtighten.
4. **Gear Mesh Adjustment:** Adjust the motor's position to achieve proper gear mesh between the motor pinion gear and the vehicle's spur gear. There should be a slight amount of play (like a thin piece of paper) between the teeth. Incorrect gear mesh can lead to premature wear or damage.

3.3. Electrical Connections

The Hosim Q901-DJ01 motor features three wires for connection to a brushless Electronic Speed Controller (ESC). These wires are typically color-coded (e.g., yellow, black, red) or labeled (A, B, C).

1. **Identify ESC Connections:** Locate the three motor output wires on your brushless ESC.
2. **Connect Motor to ESC:** Connect the three motor wires to the corresponding ESC wires. The order of connection may affect the motor's rotation direction. If the motor spins in the wrong direction, swap any two of the three motor

wires.

3. **Secure Connections:** Ensure all connections are firm and insulated to prevent short circuits.



Image 3.1: Close-up view of the three gold bullet connectors (yellow, black, red) on the Hosim 28/45 Brushless Motor Q901-DJ01, ready for connection to an ESC.

4. OPERATING INSTRUCTIONS

Once installed, the motor operates in conjunction with your vehicle's Electronic Speed Controller (ESC) and battery. Always follow the operating instructions provided with your ESC and RC vehicle.

4.1. Pre-Operation Checks

- Verify all electrical connections are secure.
- Ensure the motor is securely mounted and gear mesh is correct.
- Check that the battery is fully charged and properly connected.
- Confirm the ESC is calibrated to your radio transmitter.

4.2. Initial Run

Perform a short, low-speed test run to confirm correct motor rotation and vehicle function. If the motor spins in the wrong direction, power off the vehicle, disconnect the battery, and swap any two of the three motor wires connected to the ESC. Reconnect and test again.

4.3. Safety Precautions

- **Heat:** Brushless motors can become very hot during operation. Avoid touching the motor immediately after use.
- **Rotating Parts:** Keep fingers, loose clothing, and other objects away from the motor's rotating shaft and gears during operation.
- **Power Off:** Always disconnect the battery from the ESC when not in use or when performing maintenance.
- **Environment:** Operate your RC vehicle in a safe, open area, away from people, pets, and obstacles.

5. MAINTENANCE

Regular maintenance will help extend the life and maintain the performance of your Hosim brushless motor.

5.1. Cleaning

- After each use, especially in dusty or dirty conditions, clean the exterior of the motor.
- Use a soft brush or compressed air to remove dirt, dust, and debris from the motor casing and cooling fins.
- Avoid using water or solvents directly on the motor.

5.2. Inspection

- Periodically inspect the motor wires and connectors for any signs of damage, fraying, or corrosion.
- Check the motor mounting screws for tightness.
- Examine the motor shaft and bearings for excessive play or roughness.

5.3. Storage

When not in use, store the motor in a clean, dry place away from extreme temperatures and direct sunlight.

6. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Motor not spinning	Loose connections, dead battery, ESC issue, damaged motor.	Check all wiring, charge/replace battery, check ESC manual, inspect motor for physical damage.
Motor spins in wrong direction	Incorrect motor wire connection to ESC.	Swap any two of the three motor wires connected to the ESC.

Problem	Possible Cause	Solution
Motor overheating	Incorrect gearing (too high), excessive load, poor ventilation, ESC settings.	Reduce pinion gear size, ensure proper ventilation, check ESC timing settings, reduce vehicle load.
Loss of power/intermittent operation	Loose connections, low battery voltage, ESC thermal shutdown.	Check all connections, charge battery, allow ESC to cool down.

If problems persist after attempting these solutions, consult the support resources for your RC vehicle or contact Hosim customer support.

7. SPECIFICATIONS

The following specifications apply to the Hosim 28/45 Brushless Motor Q901-DJ01:

- **Model Number:** Q901-DJ01
- **Type:** 28/45 Brushless Motor
- **Quantity:** 1 (per package)
- **Package Dimensions:** 3 x 2.6 x 1.1 inches
- **Item Weight:** 2.39 ounces
- **Manufacturer:** Hosim
- **Recommended Age:** 14 years and up

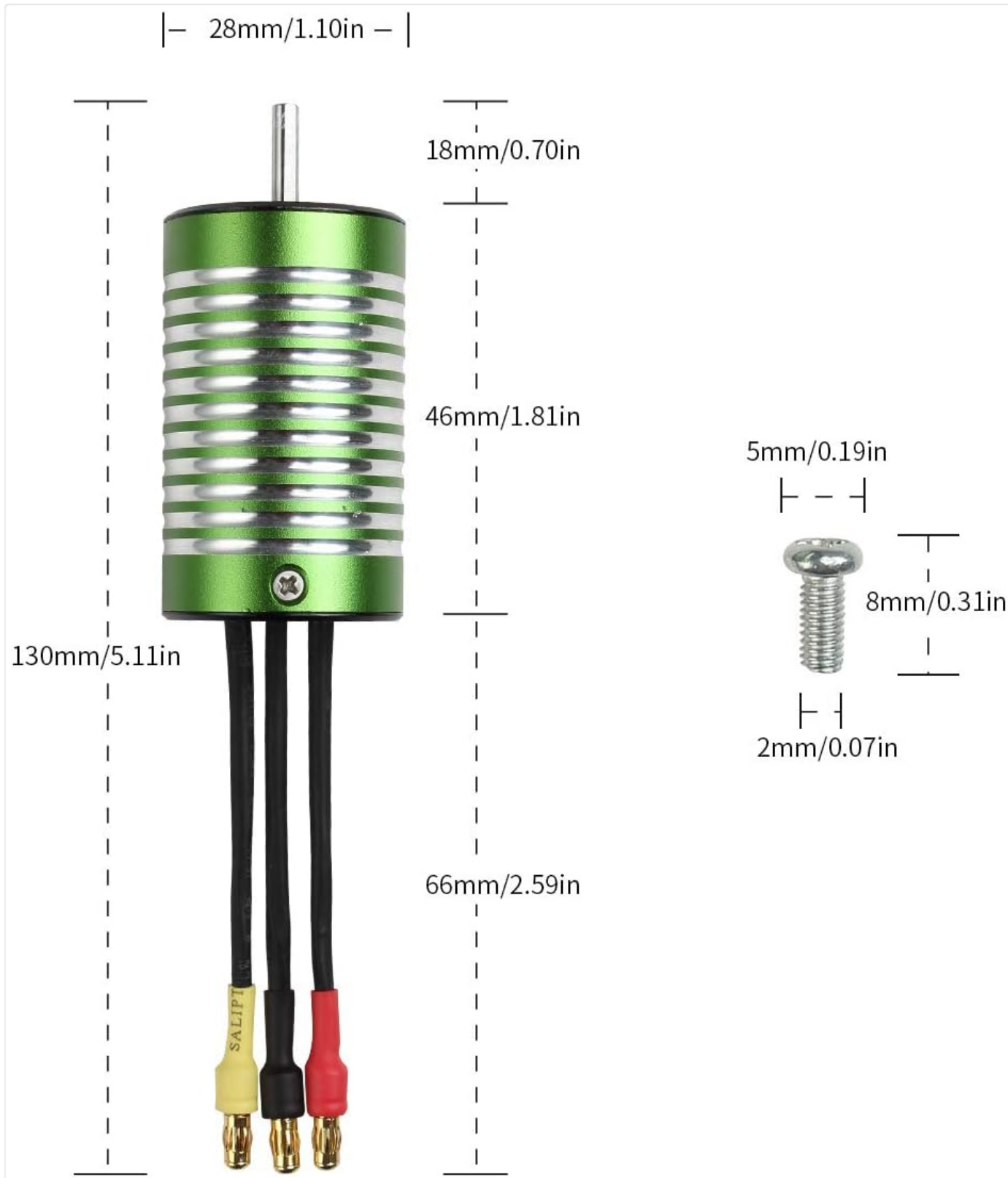


Image 7.1: Diagram illustrating the dimensions of the Hosim 28/45 Brushless Motor Q901-DJ01 and its associated mounting screws.

8. WARRANTY AND SUPPORT

As an original Hosim accessory, the Q901-DJ01 motor comes with a quality guarantee. For specific warranty terms, return policies, or technical support, please refer to the documentation provided with your RC vehicle or contact Hosim customer service directly. Ensure you retain your proof of purchase for any warranty claims.

Hosim Customer Support: For assistance, please visit the official Hosim website or refer to the contact information provided with your product packaging.

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

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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