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9imod 3542 1850KV

9imod 3542 1850KV Outrunner Brushless Motor User Manual

Model: 3542 1850KV

1. Introduction

This manual provides instructions for the 9imod 3542 1850KV Outrunner Brushless Motor, designed for 1/10 and 1/12 scale RC crawler cars such as Axial SCX10, Traxxas TRX-4, TRX-6, and Tamiya models. This motor is engineered for reliable performance and ease of maintenance in RC crawler applications.



Image: The 9imod 3542 1850KV Outrunner Brushless Motor, showcasing its compact design and wiring.

2. Key Features

- **Stable Output Power:** Features a 14 Pole 12 Slot Hi-torque rotor design for consistent power delivery.
- **Compatibility:** Specifically designed for 1/10 and 1/12 scale brushless RC crawler cars, including Axial SCX10, Traxxas TRX-4, TRX-6, and Tamiya models. Recommended for use with Mamba Micro X ESC (ESC not included).
- **Durable Construction:** CNC Machined 6061 T6 aluminum front and rear cover. High purity copper windings maximize efficiency. High toughness stainless steel shaft (Φ 3.175mm), high precision, and high-quality bearings ensure motor durability.
- **Removable/Replaceable Design:** Detachable rotor design allows for convenient cleaning and maintenance, extending motor service life and improving work efficiency.
- **High Performance:** Offers excellent torque and drive ability, engineered for maximum energy conversion.

3. Specifications

Specification	Value
Brand	9imod

Model	3542 1850KV
Max Voltage	14V (2-4S Lipo)
Max Current	91A
Power	1350W
Screw Hole	4 * M3
Shaft Diameter	3.175mm
Shaft Length	12mm
Motor Diameter	35mm
Motor Length	42mm
Weight (G.W)	153g
Material	Aluminum, Stainless Steel

4. Setup and Installation

Proper installation is crucial for optimal performance and longevity of your 9imod brushless motor. Follow these steps for connecting the motor to your Electronic Speed Controller (ESC) and receiver:

1. **Connect Motor to ESC:** Connect the three motor wires to the corresponding wires on your brushless ESC. Ensure a secure connection.
2. **Connect ESC to Receiver:** Plug the signal cable from the ESC into the throttle channel (usually Channel 2) on your RC receiver.
3. **Connect Battery:** Connect your LiPo battery (2-4S, Max 14V) to the ESC's battery input.
4. **Connect Steering Servo:** If applicable, connect your steering servo to the appropriate channel (usually Channel 1) on your receiver.
5. **Power On:** Turn on your remote control first, then power on the ESC.
6. **Calibration (if necessary):** Refer to your ESC manual for throttle calibration steps if the motor does not respond correctly.

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Video: This video demonstrates the common questions and instructions for connecting a brushless ESC and motor kit, including the wiring process for the motor, ESC, and receiver. It shows how to connect the motor wires, the ESC signal cable to the receiver, and the battery, followed by a demonstration of the motor's operation with a remote control.

5. Operating Instructions

Once the motor is correctly installed and connected, ensure your RC vehicle's battery is fully charged. Turn on your remote control, then the vehicle's power. The motor should respond to throttle inputs from your remote. Test the motor's response at low speeds to confirm smooth operation and proper linearity, which is a key feature of this outrunner motor in crawler applications.

6. Maintenance

Regular maintenance helps prolong the life and performance of your motor:

- **Cleaning:** The motor features a removable/replaceable rotor design, making it convenient for cleaning. Regularly remove any dirt, dust, or debris that may accumulate inside the motor, especially after use in dusty or muddy conditions.
- **Inspection:** Periodically inspect the motor wires for any signs of wear, fraying, or damage. Check the shaft for straightness

and ensure the bearings are running smoothly.

- **Lubrication:** While brushless motors generally require less lubrication than brushed motors, consult with RC hobby experts or the manufacturer if you notice any unusual noise from the bearings.
- **Storage:** Store the motor in a clean, dry environment away from extreme temperatures and humidity when not in use.

7. Troubleshooting

If you encounter issues with your 9imod 3542 1850KV motor, consider the following:

- **Motor Not Spinning:** Check all electrical connections (motor to ESC, ESC to receiver, battery to ESC). Ensure the battery is charged and the remote control is powered on and paired.
- **Intermittent Operation:** Inspect for loose connections or damaged wiring. Ensure the ESC is properly calibrated with your remote control.
- **Overheating:** Verify that the motor is correctly geared for your vehicle and application. Excessive load or improper gearing can cause overheating. Ensure adequate airflow around the motor.
- **Unusual Noise:** This could indicate debris in the motor or worn bearings. Perform a thorough cleaning and inspection as described in the Maintenance section.

If problems persist, contact 9imod customer support or a qualified RC technician for further assistance.

8. Warranty and Support

For warranty information, technical support, or replacement parts, please refer to the official 9imod website or contact your retailer. Keep your proof of purchase for warranty claims.

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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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