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FURITEK Kraken 2435

FURITEK Brushless Sensored Motor Kraken 2435 User Manual

Model: Kraken 2435

INTRODUCTION

This manual provides essential instructions for the installation, operation, and maintenance of your FURITEK Brushless Sensored Motor Kraken 2435. Please read this manual thoroughly before using the product to ensure proper function and longevity. This motor is designed for use in 1/14 & 1/16 scale RC Buggy and Truck models, specifically compatible with LOSI Mini-T, Mini-B, JRX2, and JRXT vehicles.

PRODUCT OVERVIEW

The FURITEK Kraken series brushless sensored motor is engineered for performance and durability in compatible RC vehicles. It features high-quality construction, advanced design for smooth operation, powerful magnets, and high-speed bearings. This motor is intended to provide enhanced acceleration and top-end speed for your RC experience.

- Precision-engineered for power and performance in Losi 1/14 & 1/16 scale RC cars.
- High-quality construction and advanced design ensure smooth and reliable operation.
- Powerful magnets and high-speed bearings contribute to rapid acceleration and high top speeds.
- Designed for straightforward compatibility and minimal setup with Losi Mini-T/B and JRX2/JRXT vehicles.



Figure 1: The FURITEK Brushless Sensored Motor Kraken 2435. This image displays the black and red motor with the FURITEK logo and "A B C" labels for sensor wire connections. The motor shaft is visible at the top.

SPECIFICATIONS

Specification	Value
Model	Kraken 2435
Kv (Rpm / Volt)	6700 Kv
No-load Current (at 10V)	2.5A
Power	320 Watts
Battery Support	2-3s LiPo
Resistance	0.025 Ohm
Max Current	32A
Slot/Pole	12 Slot / 4 Pole

Specification	Value
Motor Size	Φ24*35mm
Weight	53 grams
Product Dimensions	4 x 2.75 x 1.35 inches

SETUP AND INSTALLATION

The Kraken motor is designed for straightforward installation. Ensure your vehicle is powered off and the battery is disconnected before beginning installation.

- Mounting:** Securely mount the motor into the motor mount of your RC vehicle. Ensure proper gear mesh between the motor pinion and the spur gear. Incorrect gear mesh can lead to premature wear or damage.
- Wiring:** Connect the three motor phase wires (typically labeled A, B, C) to the corresponding outputs on your Electronic Speed Controller (ESC). For sensored operation, connect the sensor wire from the motor to the sensor port on your sensored ESC. It is common to need to solder the leads to the ESC or motor, depending on your setup. Ensure all connections are secure and insulated.
- ESC Compatibility:** For optimal performance, it is recommended to pair the Kraken motor with a compatible sensored ESC, such as the Furitek Speed Cat Sensored ESC. Refer to your ESC manual for specific wiring and setup instructions.
- Initial Check:** After installation, perform a manual check of the drivetrain to ensure smooth rotation and no binding.

Note: Always consult your RC vehicle's manual for specific motor mounting and gearing recommendations.

OPERATING INSTRUCTIONS

Once the motor is installed and connected to a compatible ESC and battery, follow these general operating guidelines:

- Battery Selection:** The Kraken motor supports 2-3s LiPo batteries. Always use batteries that are in good condition and properly charged.
- ESC Calibration:** Calibrate your ESC with your radio transmitter according to the ESC's instructions. This ensures proper throttle response.
- Initial Run:** For the first run, operate the vehicle at moderate speeds to ensure all components are functioning correctly. Monitor motor and ESC temperatures.
- Temperature Monitoring:** Regularly check the motor and ESC temperatures during operation. Excessive heat can damage components. If temperatures are consistently high, consider adjusting gearing or improving airflow.
- Environmental Conditions:** Avoid operating the motor in excessively wet or dusty conditions unless the motor and ESC are specifically rated for such environments.

MAINTENANCE

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

- Cleaning:** After each use, especially in dirty environments, gently clean the motor to remove dirt, dust, and debris. Use a soft brush or compressed air.
- Inspection:** Periodically inspect the motor for any signs of wear, damage, or loose connections. Check the motor shaft for straightness and the bearings for smooth operation.

- **Bearing Care:** While the motor features high-speed bearings, extreme conditions may necessitate bearing replacement over time. Consult a qualified technician if bearing noise or roughness is detected.
- **Storage:** Store the motor in a clean, dry place away from extreme temperatures and humidity.

TROUBLESHOOTING

If you encounter issues with your FURITEK Kraken motor, consider the following common troubleshooting steps:

- **Motor Not Spinning:**
 - Check all wiring connections between the motor, ESC, and battery.
 - Ensure the battery is charged and properly connected.
 - Verify ESC calibration with your radio transmitter.
 - Inspect for any physical obstructions preventing motor rotation.
- **Motor Overheating:**
 - Reduce gearing (use a smaller pinion or larger spur gear).
 - Ensure adequate airflow around the motor.
 - Check for binding in the drivetrain or wheel bearings.
 - Verify battery condition; a failing battery can cause the motor to work harder.
- **Irregular Motor Operation (Cogging/Stuttering):**
 - Ensure sensor wire is securely connected and undamaged (for sensored operation).
 - Check for loose phase wire connections.
 - Verify ESC settings are appropriate for a sensored brushless motor.
 - Inspect motor for internal damage or debris.
- **Reduced Performance:**
 - Check battery charge level and condition.
 - Inspect gearing for wear or incorrect mesh.
 - Ensure no excessive drag in the drivetrain.
 - Verify ESC settings are optimized.

If issues persist after performing these steps, contact FURITEK customer support or your retailer for further assistance.

WARRANTY AND SUPPORT

For information regarding product warranty, please refer to the documentation provided at the time of purchase or contact FURITEK directly. Warranty terms and conditions may vary.

For technical support or inquiries, please visit the official FURITEK website or contact your authorized dealer. You can also visit the [FURITEK Store on Amazon](#) for additional product information and support resources.