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Carisma CA15430

Carisma GT24 12000KV Mini 130 Brushless Sensorless Motor Instruction Manual

Model: CA15430

Brand: Carisma

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Carisma GT24 12000KV Mini 130 Brushless Sensorless Motor. Please read thoroughly before use to ensure safe and optimal performance.

SAFETY INFORMATION

This Radio Control model component is NOT A TOY. This motor is ONLY SUITABLE for individuals 14 YEARS OLD AND UP.

Always exercise caution when handling electrical components and operating RC vehicles. Disconnect power before performing any maintenance or installation. Failure to follow safety guidelines may result in injury or damage to the product.

PRODUCT OVERVIEW

The Carisma 12000KV Mini 130 Brushless Sensorless Motor is designed for high-performance applications in compatible RC vehicles, such as the Carisma GT24 series. Its brushless design offers efficiency and power suitable for demanding RC environments.



A blue cylindrical Carisma 12000KV Mini 130 Brushless Sensorless Motor with a white two-pin connector and wires extending from one end. The motor body features the "Carisma" logo and "12000KV" text. A metal shaft extends from the opposite end.

SETUP AND INSTALLATION

- Compatibility Check:** Ensure your Electronic Speed Controller (ESC) is compatible with a 12000KV brushless sensorless motor and can handle the required current. Verify battery voltage compatibility (e.g., 2S LiPo).
- Mounting:** Securely mount the motor into your vehicle's motor mount. 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 motor's two wires to the corresponding output wires on your ESC. Brushless sensorless motors typically do not have a specific wire order for initial connection; if the motor spins in the wrong direction, reverse any two of the motor wires.
- Initial Test:** Before full operation, perform a low-power test to confirm correct motor rotation and functionality.

OPERATION GUIDELINES

- **Battery Voltage:** Operate the motor within its specified voltage range (e.g., 2S LiPo). Exceeding this can cause damage to the motor and ESC.
- **Temperature Monitoring:** Regularly check motor temperature during operation. If the motor becomes excessively hot, reduce run time or adjust gearing to prevent damage.
- **Environmental Conditions:** Avoid operating the motor in wet or excessively dusty conditions unless the motor and associated electronics are specifically rated for such environments.

MAINTENANCE

- **Cleaning:** Keep the motor free from dirt, dust, and debris. Use compressed air or a soft brush for cleaning.
- **Shaft Inspection:** Periodically inspect the motor shaft for any bends or damage.
- **Wire Connections:** Ensure all wire connections remain secure and free from corrosion.
- **Bearing Check:** Listen for unusual noises from the motor, which could indicate worn bearings. Replace bearings if necessary.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Motor not spinning	Loose connections, ESC not armed, damaged motor/ESC	Check all wiring, re-arm ESC, inspect components for damage
Motor spinning in wrong direction	Incorrect wire phasing	Reverse any two motor wires connected to the ESC
Motor overheating	Over-gearing, excessive load, insufficient cooling	Reduce pinion size, check for drivetrain binding, ensure adequate airflow
Reduced power/performance	Low battery voltage, damaged motor, ESC issues	Charge battery, inspect motor for damage, check ESC settings

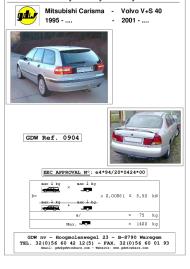
SPECIFICATIONS

- **Brand:** Carisma
- **Model Number:** CA15430
- **KV Rating:** 12000KV
- **Type:** Mini 130 Brushless Sensorless Motor
- **Product Dimensions:** 1 x 1 x 1 inches
- **Item Weight:** 2.08 ounces (0.13 Pounds)
- **Recommended Age:** 14 years and up
- **Date First Available:** January 15, 2017

WARRANTY AND SUPPORT

Specific warranty information for this product is not provided in the available documentation. For support or

Related Documents - CA15430

	<p>Carisma GT24 Subaru Impreza WRC 2000 1:24 Scale RC Car Instruction Manual</p> <p>Comprehensive instruction manual for the Carisma GT24 Subaru Impreza WRC 2000 1:24 scale radio-controlled car, covering battery charging, radio system operation, safety precautions, and parts identification.</p>
	<p>Carisma Whisper CFF-ECM Fan Coil Unit Technical Manual</p> <p>Comprehensive technical manual for the Sabiana Carisma Whisper CFF-ECM residential fan coil unit, detailing its features, performance specifications, dimensions, operating limits, control options, and accessories.</p>
	<p>GDW Tow Bar Installation Guide for Mitsubishi Carisma and Volvo V+S 40</p> <p>Detailed fitting instructions and technical specifications for GDW tow bar reference 0904, compatible with Mitsubishi Carisma (1995-1998) and Volvo V+S 40 (2001-...). Includes parts list, EEC approval, and torque values.</p>
	<p>Carisma MSA-1E Suzuki Jimny JB74 1/24 Scale Crawler User Manual & Setup Guide</p> <p>Comprehensive user manual and setup guide for the Carisma MSA-1E 1/24 Scale Crawler, featuring the Suzuki Jimny JB74 body. Includes setup instructions, safety precautions, parts identification, and technical specifications.</p>
	<p>Carisma MSA-1E Ford F150 1/24 Scale Crawler User Manual & Setup Guide</p> <p>Comprehensive user manual and setup guide for the Carisma MSA-1E 1/24 Scale Ford F150 4WD crawler, covering operation, safety, components, and setup. Includes detailed part descriptions and assembly diagrams.</p>
	<p>Carisma GT24TR 1/24 Mini 4WD User Manual & Setup Guide</p> <p>This user manual and setup guide provides detailed instructions for the Carisma GT24TR 1/24 Mini 4WD radio control model, including setup, operation, safety precautions, and parts information. Learn how to operate your RC car safely and effectively.</p>