

Kyosho Torx 8 Brushless Motor Sensorless 4068

Kyosho Torx 8 Brushless Motor Sensorless 4068 User Manual

INTRODUCTION

This manual provides essential information for the proper installation, operation, maintenance, and troubleshooting of your Kyosho Torx 8 Brushless Motor Sensorless 4068. Please read this manual thoroughly before using the product to ensure safe and optimal performance.

SAFETY PRECAUTIONS

Always observe the following safety guidelines to prevent injury or damage to the product and surrounding environment:

- Keep hands, hair, and loose clothing away from rotating parts.
- Ensure all electrical connections are secure and insulated to prevent short circuits.
- Do not operate the motor in wet conditions or near flammable materials.
- Use only compatible Electronic Speed Controllers (ESC) and batteries.
- Adult supervision is recommended for users under 14 years of age.
- Disconnect the battery from the ESC and motor when not in use.

SETUP

Unpacking

Carefully remove the motor from its packaging. Inspect for any visible damage that may have occurred during shipping. If any damage is found, contact your retailer immediately.

Installation

Mount the Kyosho Torx 8 Brushless Motor Sensorless 4068 securely into your vehicle's motor mount. Ensure proper gear mesh between the pinion gear and the spur gear. Incorrect gear mesh can lead to premature wear or damage.



Image: The Kyosho Torx 8 Brushless Motor Sensorless 4068, illustrating its physical appearance and connection points for reference during installation.

Connect the three motor wires to the corresponding output wires of your Electronic Speed Controller (ESC). While sensorless motors do not require a specific wire order for initial function, reversing any two wires will reverse the motor's rotation direction. Ensure all connections are soldered properly or secured with high-quality connectors.

Connect the ESC to your receiver and battery according to the ESC manufacturer's instructions.

OPERATING

Initial Power-Up

Before applying full power, ensure the vehicle is elevated or the wheels are off the ground. Turn on your transmitter first, then connect the battery to the ESC. The ESC will typically emit a series of beeps indicating successful power-up and calibration with the motor.

Running the Motor

Gently apply throttle to check the motor's rotation direction. If the direction is incorrect, disconnect the battery, then swap any two of the three motor wires connected to the ESC. Reconnect the battery and re-test. Avoid prolonged operation at very low RPMs, as this can generate excessive heat in some sensorless systems.

Monitor motor and ESC temperatures during initial runs. If temperatures become excessively high (above 80°C / 176°F), reduce gearing or adjust ESC settings.

MAINTENANCE

Regular Inspection

After each use, inspect the motor for any signs of damage, loose wires, or debris. Check the motor's mounting screws for tightness. Ensure the pinion gear is secure and the gear mesh is still correct.

Cleaning

Keep the motor clean and free of dirt, dust, and moisture. Use a soft brush or compressed air to remove debris from the motor's cooling fins and vents. Avoid using solvents or harsh chemicals that could damage the motor's components.

Storage

Store the motor in a clean, dry place away from direct sunlight and extreme temperatures. Disconnect all power sources before storing.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Motor not running	No power to ESC; loose connections; faulty ESC/motor.	Check battery connection; verify all wires are secure; test ESC/motor with known good components.
Motor runs in wrong direction	Incorrect motor wire connection.	Swap any two of the three motor wires connected to the ESC.
Motor overheating	Overgearing; excessive load; insufficient cooling.	Reduce pinion gear size or increase spur gear size; ensure proper ventilation; check for binding in drivetrain.
Loss of power/intermittent operation	Low battery voltage; loose connections; ESC issue.	Charge battery; check all connections; consult ESC manual for troubleshooting.

SPECIFICATIONS

Feature	Detail
Brand	Kyosho
Model	Torx 8 Brushless Motor Sensorless 4068
Type	Brushless, Sensorless
Poles	4 Pole
KV Rating	2000 KV
Voltage	12 Volts (Nominal)
Horsepower	4 Horsepower
Recommended Age	14 years and up
UPC	714824062280

WARRANTY AND SUPPORT

Kyosho products are manufactured to high-quality standards. This product is covered by a limited warranty against manufacturing defects. Please refer to the warranty card included with your purchase or visit the official Kyosho website for detailed warranty terms and conditions.

For technical support or service inquiries, please contact your local Kyosho distributor or visit the Kyosho support page online. When contacting support, please have your product model number and purchase information ready.

Online Resources: [Kyosho Official Store on Amazon](#)