



Novak Electronics Inc.
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NOTICE TO NOVAK BRUSHLESS MOTOR USERS

Novak motors have been designed to handle the rigors of any form of electric racing, from touring cars to off-road trucks and buggies.

Through multiple forms of testing, customer reports and inspection of damaged motors, we have determined that **the maximum external safe operating temperature for Novak brushless motors is 175°F (80°C).** Motors that run at higher temperatures have sustained internal damage.

This internal damage can render the motor inoperable if you continue to run it and will ultimately result in burned or melted coil(s) inside the motor.

This type of damage to the motor is not covered under Novak's product warranty.

From our testing and experience, **keeping the external motor operating temperature under 160°F (72°C) will provide the best performance when the car is handling well.** At this temperature, the motors' racing life will last a long time and should require only occasional replacement of the bearings and rotors.

Precaution about Advanced Timing:

Use of Novak brushless motors with non-Novak ESCs that have advance motor timing can result in excessive current draw, which will increase the motor temperature above the safe operating temperature. As most of these ESCs do not have a thermal overload protection for motors, continued operation will result in internal damage to the brushless motor.

This type of damage is not covered under the product's warranty.

Precaution about Over-Gearing:

Motor temperature is the **ONLY** way to properly set the vehicle gearing. Over gearing the motor will result in excessive operating temperatures, which may result in internal damage. **This type of damage is not covered under the product's warranty.**

All Novak Motors are hand-wound, assembled and tested at the Novak's facility in Irvine, Calif. Each motor (yes, 100%) is meticulously inspected and tested for internal shorts, as well as run extensively before final packaging.

Please follow these important operating temperature guidelines. Thank you.

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