TEAM EXALT

www.TeamExalt.com

ROTATION DRIFT

USER MANUAL

1/10™ SCALE SENSORED DRIFT BRUSHLESS MOTOR

Thank you for purchasing the TEAM EXALT DRIFT MOTOR. This is a high-performance RC product intended for hobby use, not a toy. It must be operated responsibly and with attention to safety. Improper use can result in personal injury or damage to the product.

This product should only be used by children under direct adult supervision. Before installing or using the motor, please read and follow all instructions in this manual. TEAM EXALT assumes no liability for any damage resulting from misuse, improper installation, or unauthorized modifications—including, but not limited to, incidental or indirect damages.

Warning:

- Ensure that your power system is properly matched. Overloading the motor due to incompatible components can cause permanent damage.
- Do not overtighten the motor screws. Use the correct size and type of mounting hardware.
- Make sure all insulated parts and connections are secure before powering the system. Short circuits will destroy the motor.
- Do not operate the motor at full throttle without a load (i.e., before the gear is installed). High-speed no-load operation can permanently damage internal components.
- Always connect wires and sensor cables correctly. Incorrect wiring can prevent the system from functioning or cause serious damage.
- Avoid operating the motor above 90°C (194°F). Excessive heat may demagnetize the rotor and damage the motor.
- Do not touch the motor immediately after use. It may be extremely hot. Wait until it has fully cooled to prevent burns.

FEATURES

- Innovative Stator Design – Engineered for exceptional high RPM performance.
- Precision 7075 CNC Aluminum Housing – Acts as a heat sink for superior thermal efficiency.
- High-Purity Copper Windings – American-grade copper ensures maximum electrical conductivity.
- Electroplated Stator – Resists corrosion and aging for long-term reliability.
- Available in 10.5T and 13.5T with Standard Rotor w/Fan blade
- Limited Edition in Purple,Silver,and Blue Colors
- NSK R2ZZ Precision Bearings-Premium-grade bearings imported from Japan ensure smooth, reliable motor operation.
- Heavy-Gauge Gold-Plated Copper Ring-
  Efficiently dissipates heat to reduce thermal loss and maintain performance under load
- Features Unique 3.5mm A-B-C Female Bullet Connectors – No Solder Tabs Required
- Say goodbye to messy soldering. This motor is equipped with integrated 3.5mm female bullet connectors labeled A-B-C, eliminating traditional solder tabs and making installation and removal faster, cleaner, and more consistent.
  For a solid and reliable connection, simply use 3.5mm male bullet plugs on your ESC wires—ensuring maximum conductivity with minimal hassle

INSTALLATION & CONNECTION

1. Motor Mounting

The motor features six M3 mounting holes spaced 25mm apart. These holes are designed to accept screws up to a maximum thread depth of 5mm.

Recommended: Use M3 screws no longer than 8mm to avoid damaging the motor.

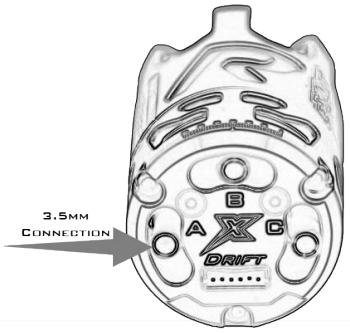
Installation specifics may vary depending on your chassis or mounting plate. Always verify frame compatibility before securing the motor.

2. Motor Wiring

No Soldering Needed!!. Unique 3.5mm A-B-C Female Connectors instead of Solder Tabs

3. Inspection

Before turning on the power of the remote control car, please Ensure double check the correctness of the motor connection and the reliability of the installation.



TEMPERATURE & GEAR RATIO

How to Adjust Timing on Your Team Exalt Rotation Motor

The Team Exalt Rotation series motors give you the flexibility to fine-tune performance with adjustable mechanical timing. Whether you're chasing more RPM or dialing in better efficiency, here's how to make the most of it:

Step-by-Step Timing Adjustment

- Loosen the rear timing screw – You'll find this screw on the back endplate of the motor.
- Rotate the endbell to your desired setting, using the white timing marks as a reference.
- Once you've chosen the timing, tighten the screw back down securely to lock the adjustment in place.

What Changing Timing Actually Does

- Higher timing boosts RPM but also increases heat and lowers efficiency. It's best paired with a higher Final Drive Ratio (FDR)—that means either a smaller pinion gear or a larger spur.
- Lower timing keeps things cooler and more efficient, but you'll sacrifice some top speed.
- Use timing as a tuning tool—it lets you shape how your power system behaves on different tracks.

Make sure your ESC settings are dialed in properly before changing motor timing. Some setups may not handle aggressive timing well.

- After adjusting, test your temps:
- Run a full pack
- Check the motor temperature using an infrared temp gun
- If it runs too hot, let it cool down before continuing testing
- If heat issues persist, either reduce timing or gear the car down (higher FDR)

Proper timing adjustment can give your setup that extra edge—just be sure to keep it cool and safe.

Option & Replacement Parts

Motors

EXARO105B - 10.5T ROTATION BLUE DRIFT MOTOR
EXARO105P - 10.5T ROTATION PURPLE DRIFT MOTOR
EXARO105S - 10.5T ROTATION SILVER DRIFT MOTOR
EXARO106B - 13.5T ROTATION BLUE DRIFT MOTOR
EXARO106P - 13.5T ROTATION PURPLE DRIFT MOTOR
EXARO106S - 13.5T ROTATION SILVER DRIFT MOTOR

Parts

EXARO106 - ROTATION REPLACEMENT SENSOR BOARD

Warranty & Repair Info

Scan for warranty/repair Process.

This warranty link contains all the detailed information you need regarding coverage, terms, and support.
Please refer to it carefully to ensure you understand the scope of the warranty, including eligibility, claim procedures, and any exclusions that may apply.