

Dynamite DYNM3831

Dynamite 3650 6-Pole Marine Motor 2000Kv (DYNM3831) Instruction Manual

Model: DYNM3831

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Dynamite 3650 6-Pole Marine Motor 2000Kv (Model DYNM3831). Designed for high-performance RC marine applications, this water-cooled motor delivers reliable power. Please read this manual thoroughly before use to ensure safe and optimal performance.

SAFETY PRECAUTIONS

- Always disconnect the battery from the motor and Electronic Speed Controller (ESC) when not in use or during maintenance.
- Electric motors can generate significant heat during operation. Avoid touching the motor immediately after use to prevent burns.
- Ensure all electrical connections are secure and properly insulated to prevent short circuits.
- Keep fingers and loose clothing away from rotating parts (motor shaft, propeller) during operation.
- Use only compatible ESCs and batteries that meet the motor's voltage and current requirements. Refer to your ESC manual for proper setup.
- Operate RC models in open areas, away from people, animals, and obstacles.
- This product is recommended for users aged 14 years and up.

PRODUCT OVERVIEW

The Dynamite 3650 6-Pole Marine Motor 2000Kv is engineered for efficiency and durability in demanding marine environments. Key features include:

- **2000Kv Rating:** Provides a balance of speed and torque suitable for various RC boat applications.
- **6-Pole Design:** Enhances efficiency and power delivery.

- **Water-Cooled:** Integrated water cooling system helps maintain optimal operating temperatures, crucial for marine use.
- **5.5mm Motor Bullet Connectors:** Ensures robust and low-resistance electrical connections.
- **Compact Dimensions:** Motor measures approximately 36mm in diameter and 56mm in length.



A detailed view of the Dynamite 3650 6-Pole Marine Motor, showcasing its blue anodized aluminum casing, water cooling nipples, motor shaft, and three electrical leads with 5.5mm bullet connectors.

SETUP AND INSTALLATION

1. **Mounting:** Securely mount the motor within your RC boat's hull using appropriate motor mounts and hardware. Ensure proper alignment with the propeller shaft.
2. **Electrical Connections:** Connect the three motor wires to your Electronic Speed Controller (ESC) using the 5.5mm bullet connectors. The order of connection may affect motor rotation direction; reverse any two wires to change direction if necessary.
3. **Water Cooling System:** Connect the water cooling lines from your boat's water pickup and outlet to the two water cooling nipples on the motor. Ensure a clear flow path for water to circulate and cool the motor. Proper water flow is critical for preventing overheating.
4. **Propeller Installation:** Attach the propeller to the motor shaft, ensuring it is balanced and securely fastened.
5. **ESC Programming:** Refer to your ESC's instruction manual for proper programming, including motor timing, battery type, and cut-off voltage settings.

OPERATION

Before operating your RC boat, perform a thorough pre-run check:

- Verify all connections are secure and waterproofed where necessary.
- Ensure the water cooling system is functioning correctly by observing water flow from the outlet.
- Check battery charge levels.
- Perform a range check of your radio system.

During operation, monitor motor temperature. Excessive heat can damage the motor and ESC. If the motor becomes too hot to touch, stop operation and allow it to cool. Adjust propeller size or ESC settings if overheating persists.

MAINTENANCE

- **Cleaning:** After each use, especially in saltwater, rinse the motor and cooling system with fresh water to prevent corrosion. Dry thoroughly.
- **Inspection:** Regularly inspect motor wires, connectors, and the water cooling nipples for any signs of wear, damage, or corrosion.
- **Bearings:** Periodically check motor bearings for smooth operation. Worn bearings can lead to increased friction and heat.
- **Connections:** Ensure bullet connectors remain tight and free of oxidation. Loose or corroded connections can cause power loss and heat buildup.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Motor not running or intermittent power	Loose or corroded electrical connections; faulty ESC; low battery voltage; internal motor issue (e.g., cold solder joints).	Check all bullet connectors and solder joints. Ensure battery is charged and ESC is properly connected and programmed. Test with a known good ESC/battery if possible. If internal issue suspected, contact support.
Motor overheating	Insufficient water flow; oversized propeller; incorrect motor timing on ESC; prolonged high-load operation.	Verify water cooling lines are clear and water is flowing. Reduce propeller size. Adjust ESC motor timing. Allow motor to cool between runs.
Reduced performance/speed	Low battery charge; propeller damage; motor or ESC issue; water cooling blockage.	Charge battery fully. Inspect propeller for damage and replace if necessary. Check water cooling system. Consult ESC manual for troubleshooting.
Unusual noise or vibration	Damaged propeller; worn motor bearings; foreign object in drivetrain.	Inspect propeller for damage and balance. Check motor bearings for smooth rotation. Clear any debris from the motor area.

SPECIFICATIONS

Brand	Dynamite
Model Number	DYNM3831
Kv Rating	2000Kv
Pole Count	6-Pole
Cooling	Water-cooled
Motor Connectors	5.5mm Bullet
Motor Dimensions (Diameter x Length)	36mm x 56mm
Approximate Item Weight	12.7 ounces (360 grams)
Manufacturer	Horizon Hobby
UPC	605482086056
Recommended Age	14 years and up
Release Date	October 27, 2017

Note: The "Voltage: 6 Volts" and "Material: Plastic" listed in some product specifications are likely general placeholders or refer to specific internal components/testing conditions. The motor casing is typically aluminum for heat dissipation, and a 2000Kv motor is generally designed for higher voltage LiPo battery configurations (e.g., 3S-6S) in RC marine applications. Always consult your ESC and battery specifications for compatible voltage ranges.

WARRANTY AND SUPPORT


For warranty information, technical support, or replacement parts, please contact Horizon Hobby customer service directly. Keep your proof of purchase for any warranty claims.






Horizon Hobby Contact Information:

Website: www.horizonhobby.com

Refer to the website for current contact numbers and support options.

Related Documents - DYNM3831

	<p>Dynamite Tazer Forward Reverse Electronic Speed Control Instruction Manual</p> <p>Instruction manual for the Dynamite Tazer Forward Reverse Electronic Speed Control (ESC), detailing specifications, features, installation, wiring, programming, troubleshooting, and warranty information for RC vehicles.</p>
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 <p>WWW.DYNAMITEHC.COM</p>	<p>Dynamite Prophet Sport II AC/DC Charger Operation Manual</p> <p>Operation manual for the Dynamite Prophet Sport II AC/DC Peak Detection Charger. This guide provides instructions on setup, charging battery packs, advanced trickle charge, safety precautions, and warranty information.</p>
	<p>Dynamite Tazer 15T ESC Instruction Manual</p> <p>Comprehensive instruction manual for the Dynamite Tazer 15T Electronic Speed Control (ESC), covering features, specifications, installation, wiring, transmitter adjustment, programming, troubleshooting, and warranty details for RC hobbyists.</p>
	<p>Pro Boat Jetstream Jet Boat RTR Owners Manual</p> <p>Comprehensive owners manual for the Pro Boat Jetstream Jet Boat RTR (Ready-to-Run) model PRB08051. Includes safety precautions, operation instructions, maintenance procedures, troubleshooting, parts lists, and warranty information for this high-performance RC adventure boat.</p>
	<p>Pro Boat Jetstream Adventure Boats 1/6 Scale RTR Jet Boat Owner's Manual</p> <p>Discover the Pro Boat Jetstream Adventure Boats 1/6 Scale RTR Jet Boat with this comprehensive owner's manual. Learn about setup, operation, maintenance, troubleshooting, and safety for the PRB08051 model, featuring waterproof electronics and powerful performance.</p>
	<p>ECX Brutus 1/10 2WD Electric Monster Truck Instruction Manual</p> <p>Comprehensive instruction manual for the ECX Brutus 1/10 scale 2WD Electric Monster Truck (ECX03055), covering setup, operation, maintenance, troubleshooting, and warranty information from Horizon Hobby.</p>