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Traxxas 3484

Traxxas Velineon VXL-6s Waterproof Brushless ESC with 2000Kv Motor

INSTRUCTION MANUAL - MODEL 3484

INTRODUCTION

This manual provides essential information for the proper setup, operation, and maintenance of your Traxxas Velineon VXL-6s Waterproof Brushless Electronic Speed Control (ESC) and 2000Kv Motor. Please read this manual thoroughly before using the product to ensure safe and optimal performance. Retain this manual for future reference.



Image: The Traxxas Velineon VXL-6s Waterproof Brushless ESC and 2000Kv Motor combination.

SAFETY INFORMATION

Operating high-performance RC electronics requires caution. Failure to follow these instructions may result in injury or damage to the product or property.

- **Battery Safety:** Always use batteries that are compatible with the VXL-6s ESC. Incorrect battery types or damaged batteries can lead to fire or explosion. Disconnect batteries when not in use.
- **Waterproof Design:** While the VXL-6s ESC is waterproof, the motor is not fully submersible. Avoid prolonged submersion of the motor. Always dry the components thoroughly after exposure to moisture.
- **High Current:** The VXL-6s system operates at high current. Ensure all connections are secure and properly insulated to prevent short circuits.
- **Heat:** The ESC and motor can become very hot during operation. Allow components to cool before handling. Avoid touching hot components to prevent burns.
- **Moving Parts:** Keep fingers, hair, and loose clothing away from rotating motor parts and gears.
- **Ventilation:** Ensure adequate airflow around the ESC and motor during operation to prevent overheating.

WHAT'S IN THE BOX

The Traxxas 3484 package includes the following components:

- 1x Traxxas Velineon VXL-6s Waterproof Brushless Electronic Speed Control (ESC)
- 1x Traxxas 2000Kv 77mm Brushless Motor

SETUP

Follow these steps for proper installation and initial setup of your VXL-6s system:

1. **Mounting the ESC:** Securely mount the VXL-6s ESC in your vehicle using double-sided tape or screws, ensuring good airflow.
2. **Mounting the Motor:** Install the 2000Kv motor into the motor mount of your vehicle. Ensure proper gear mesh between the pinion and spur gear.
3. **Wiring Connections:**
 - Connect the three motor wires from the ESC to the motor. The order may affect motor rotation; adjust if necessary.
 - Connect the ESC's receiver wire to the throttle channel (usually channel 2) on your receiver.
 - Connect your battery pack(s) to the ESC's battery connectors. Ensure correct polarity.
4. **Radio Calibration:** Turn on your transmitter, then turn on the ESC. Follow your vehicle's specific instructions for throttle calibration to match the ESC to your radio system.



Image: Example of the VXL-6s ESC and 2000Kv Motor installed in a typical RC vehicle chassis (illustrative).

OPERATING INSTRUCTIONS

Once the VXL-6s system is installed and calibrated, follow these steps for operation:

1. **Power On:** Ensure your transmitter is on first, then connect the battery to the ESC. The ESC will emit a series of tones indicating battery type and readiness.
2. **Throttle Control:** Use the throttle trigger on your transmitter to control the vehicle's speed. Pull for forward, push for brake/reverse.
3. **Driving:** Operate your RC vehicle responsibly and within safe areas. Avoid obstacles and ensure clear line of sight.
4. **Power Off:** Always disconnect the battery from the ESC first, then turn off your transmitter.

MAINTENANCE

Regular maintenance ensures the longevity and performance of your VXL-6s system:

- **Cleaning:** After each use, especially in dirty or wet conditions, clean the ESC and motor. Use compressed air to remove dust and debris from the motor's cooling fins. Wipe the ESC with a damp cloth if necessary, then dry thoroughly.
- **Inspection:** Regularly check all wiring connections for signs of wear, fraying, or corrosion. Ensure motor mounting screws are tight and gear mesh is correct.
- **Motor Bearings:** Periodically inspect motor bearings for smooth operation. Worn bearings can reduce performance and increase heat.
- **Cooling:** Ensure the ESC's cooling fan (if equipped) is free of obstructions and functioning correctly.

TROUBLESHOOTING

Refer to the table below for common issues and their potential solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No power to ESC/Motor	Disconnected battery, faulty battery, loose wiring.	Check battery connection, ensure battery is charged, inspect all wiring.
Motor not spinning	Incorrect radio calibration, motor wires disconnected, ESC in protection mode.	Recalibrate radio, check motor wire connections, allow ESC to cool if overheated.
Overheating ESC/Motor	Improper gearing, insufficient cooling, excessive load.	Check gear mesh, ensure adequate airflow, reduce load or use a smaller pinion gear.
Erratic operation	Radio interference, loose receiver connection, damaged sensor wire (if applicable).	Check receiver connections, ensure antenna is properly positioned, test in a different location.

SPECIFICATIONS

Key specifications for the Traxxas Velineon VXL-6s Waterproof Brushless ESC and 2000Kv Motor:

Feature	Detail
Model Number	3484
Product Dimensions	6.3 x 4.72 x 2.36 inches
Item Weight	11.5 ounces
Manufacturer	Traxxas
Motor Kv Rating	2000Kv
ESC Type	Brushless, Waterproof

WARRANTY INFORMATION

Specific warranty details for the Traxxas Velineon VXL-6s Waterproof Brushless ESC and 2000Kv Motor are typically provided with the product packaging or can be found on the official Traxxas website. Please refer to these sources for the most current and comprehensive warranty policy.

CUSTOMER SUPPORT

For technical assistance, replacement parts, or further inquiries regarding your Traxxas Velineon VXL-6s system, please visit the official Traxxas website or contact their customer support directly. Contact information and support resources are usually available on the manufacturer's website.