

Traxxas 3025

Traxxas 3025 XL-5 HV Electronic Speed Control Instruction Manual

Model: 3025

1. INTRODUCTION

The Traxxas 3025 XL-5 HV brushed electronic speed control is designed for high-voltage 3S LiPo battery packs, offering enhanced efficiency and power. It features multiple drive profiles and advanced control options for various RC applications, ensuring versatile performance for your remote-controlled vehicle.



Figure 1: A detailed view of the blue Traxxas XL-5 HV Electronic Speed Control, highlighting its heat sink and wiring connections.

2. SAFETY INFORMATION

Always follow manufacturer guidelines for safe operation of electronic speed controls. Improper use can lead to damage to the unit, battery, or vehicle, and may pose a risk of injury. Ensure all connections are secure and insulated. Do not operate the ESC in wet conditions unless explicitly stated as waterproof. Keep out of reach of children.

3. WHAT'S IN THE BOX

- One Traxxas 3025 XL-5 HV Electronic Speed Control unit

4. KEY FEATURES

- ESC features 11.1V 3-cell LiPo compatibility and works with brushed motors only.
- Fully waterproof design with Traxxas EZ-Set one-button setup and large, efficient heat sink.

- Wide voltage latitude: 6–7 cell NiMH (7.2–8.4V) and 2–3S LiPo (7.4–11.1V) with two-stage low voltage protection (LVD).
- Features five drive profiles including Trail Mode (forward / brake / reverse / with trail-tuned drag brake in neutral).
- Special Crawl Mode features forward / Instant Reverse - no neutral with hill holding brake.

5. SETUP AND INSTALLATION

The Traxxas XL-5 HV ESC is designed for straightforward installation. Ensure all connections are secure and correct before operation.

5.1. Connecting the ESC

Connect the ESC to your brushed motor, receiver, and battery. The ESC includes a power switch and motor leads (typically blue, yellow, red) for connection to your motor. Ensure proper polarity when connecting the battery.

5.2. EZ-Set One-Button Setup

The XL-5 HV features Traxxas EZ-Set one-button setup for easy calibration and mode selection. To calibrate, ensure your transmitter is on and the throttle is at neutral. Press and hold the EZ-Set button until the LED flashes green, then red, then green again. Release the button. The ESC will then guide you through setting the full throttle and full brake positions. Refer to the user manual for detailed steps on using the EZ-Set button to configure your ESC and select drive profiles.

6. OPERATING MODES AND DRIVE PROFILES

The XL-5 HV offers five distinct drive profiles to suit various driving conditions and preferences. These profiles can be selected using the EZ-Set button.

6.1. Available Drive Profiles

- **Sport Mode:** Forward / Brake / Reverse. This is the default mode for general driving.
- **Race Mode:** Forward / Brake. Reverse is disabled for competition use.
- **Training Mode®:** 50% Forward / 100% Brake / 50% Reverse. Reduces power for new drivers.
- **Trail Mode:** Forward / Brake / Reverse with trail-tuned drag brake in neutral. Ideal for controlled crawling.
- **Crawl Mode:** Forward / Instant Reverse with hill holding brake. Designed for extremely technical crawling courses.

6.2. Low Voltage Detection (LVD)

The ESC includes two-stage low voltage protection for LiPo batteries (7.4–11.1V) to prevent over-discharge. Ensure LVD is correctly set for your battery type. If using NiMH batteries, LVD should be disabled. The LED indicator will signal when LVD is active or when the battery voltage drops to a critical level.

7. MAINTENANCE

- Keep the ESC clean and free from dirt, dust, and moisture.
- Regularly inspect all wires and connectors for damage or loose connections.
- Ensure the heat sink is clear of obstructions for optimal cooling.

- Store the ESC in a dry, cool environment when not in use.

8. TROUBLESHOOTING

- If the ESC does not power on, check battery connections and ensure the battery is charged.
- If the motor is not responding, verify receiver connections and throttle calibration.
- If the ESC overheats, check for proper ventilation and ensure the motor is not over-gearred.
- Consult the full user manual or Traxxas support for more complex issues.







9. SPECIFICATIONS

Property	Value
Product Dimensions	11 x 6 x 1.5 inches
Item Weight	0.01 ounces
ASIN	B075XP66CQ
Item Model Number	3025
Manufacturer Recommended Age	14 years and up
Manufacturer	Traxxas
Date First Available	September 26, 2017

10. WARRANTY AND SUPPORT

For detailed warranty information, technical support, or to find replacement parts, please visit the official Traxxas website at www.traxxas.com or contact their customer service directly. Always consult your vehicle's user manual for exact parts listings and comprehensive support contacts.

Related Documents - 3025

	<p>Traxxas VXL-3s Electronic Speed Control: User Manual and Setup Guide</p> <p>Comprehensive guide to the Traxxas VXL-3s electronic speed control (ESC), covering installation, wiring, setup, programming, troubleshooting, and safety precautions for RC vehicles.</p>
	<p>Traxxas XL-5 Electronic Speed Control Instructions and Guide</p> <p>Detailed instructions for installing, programming, and operating the Traxxas XL-5 Electronic Speed Control (ESC) for RC vehicles. Covers specifications, safety, LiPo battery use, profile selection, and troubleshooting.</p>
	<p>Traxxas Ford F-150 SVT Raptor Model 58064 Owner's Manual</p> <p>Comprehensive owner's manual for the Traxxas Ford F-150 SVT Raptor RC model (Model 58064), covering setup, operation, maintenance, safety precautions, and adjustments.</p>
	<p>Traxxas VXL-6s Electronic Speed Control: Instructions, Safety, and Operation Guide</p> <p>Comprehensive guide to the Traxxas VXL-6s Velineon electronic speed control, covering safety precautions for LiPo and NiMH batteries, installation, setup, operation profiles, troubleshooting, and warranty information.</p>
	<p>Traxxas Ford Mustang Drift Car Owner's Manual</p> <p>Comprehensive owner's manual for the Traxxas Ford Mustang Drift Car (Model 105237-4), covering safety precautions, operation, maintenance, and tuning of the TQi radio system and XL-5 ESC. Includes detailed instructions for setup, adjustments, and troubleshooting.</p>
	<p>Traxxas Bigfoot No. 1 Owner's Manual</p> <p>Comprehensive owner's manual for the Traxxas Bigfoot No. 1 monster truck, covering operation, maintenance, safety precautions, and radio system details.</p>