

Integy 3930-2S

Novak Club Sensored Brushless ESC User Manual

Model: 3930-2S | Brand: Integy

INTRODUCTION

Welcome to the user manual for the Novak Club Sensored Brushless ESC. This Electric Speed Controller is designed for high-performance remote-controlled vehicles, offering precise control and efficient power delivery for sensored brushless motor systems. This manual provides essential information for the proper setup, operation, maintenance, and troubleshooting of your ESC.

SAFETY PRECAUTIONS

To ensure safe operation and prevent damage to your equipment or injury, please observe the following safety guidelines:

- Always disconnect the battery from the ESC when not in use to prevent accidental operation and discharge.
- Ensure proper ventilation around the ESC during operation to prevent overheating.
- Do not expose the ESC to water or moisture unless it is specifically rated as waterproof.
- Verify correct polarity when connecting the battery to avoid damage to the ESC and battery.
- Keep fingers and loose clothing away from rotating parts of the motor and vehicle during operation.
- Read and understand all instructions before operating the ESC.

SETUP GUIDE

Follow these steps to properly connect your Novak Club Sensored Brushless ESC to your RC vehicle's components:

1. **Motor Connection:** Connect the three motor wires from your sensored brushless motor to the corresponding output terminals on the ESC. Ensure the phase wires (A, B, C) are connected correctly. For sensored motors, connect the sensor wire from the motor to the sensor port on the ESC.
2. **Battery Connection:** Connect your battery pack to the battery input wires of the ESC. Pay close

attention to polarity: red wire to positive (+), black wire to negative (-). Incorrect polarity will damage the ESC.

- 3. Receiver Connection:** Plug the ESC's receiver cable into the throttle channel (usually Channel 2) of your RC receiver.
- 4. Power Switch:** Ensure the ESC's power switch is in the OFF position before connecting the battery.



Image: The Novak Club Sensored Brushless ESC, showing its compact design, prominent heat sink for thermal management, and various connection points for motor, battery, and receiver. The clear casing reveals internal components, and the "NOVAK" branding is visible on the side.

OPERATING INSTRUCTIONS

Initial Calibration

Before first use, it is crucial to calibrate the ESC to your radio system's throttle range. Refer to your radio system's manual for specific calibration procedures, as these can vary. Generally, the process involves:

1. Turn on your radio transmitter.
2. Hold the throttle trigger at full brake/reverse.
3. Turn on the ESC.
4. Wait for the ESC to emit a series of beeps or flashes, indicating it has detected the full brake position.
5. Move the throttle trigger to full throttle.
6. Wait for confirmation.
7. Return the throttle trigger to the neutral position.
8. Wait for final confirmation. The ESC is now calibrated.

Normal Operation

Once calibrated, the ESC is ready for use:

- Turn on your radio transmitter first, then connect the battery to the ESC and turn on the ESC.
- The ESC will initialize, and you should hear a series of tones indicating it is ready.
- Control the vehicle using your radio transmitter's throttle and steering.
- When finished, turn off the ESC first, then turn off your radio transmitter, and finally disconnect the battery.

MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your ESC:

- **Cleaning:** Regularly clean the ESC, especially the heat sink, to remove dirt, dust, and debris. Use a soft brush or compressed air. Do not use solvents or harsh chemicals.
- **Inspection:** Periodically inspect all wires and connectors for signs of wear, fraying, or corrosion. Ensure all connections are secure.
- **Storage:** Store the ESC in a dry, cool place away from direct sunlight and extreme temperatures.

TROUBLESHOOTING

If you encounter issues with your ESC, refer to the table below for common problems and their solutions:

Problem	Possible Cause	Solution
ESC does not power on	Battery not connected, Battery discharged, Power switch off	Check battery connection, Charge battery, Turn on power switch
Motor not spinning	Motor wires loose, Sensor wire disconnected, ESC not calibrated, Radio interference	Check motor connections, Reconnect sensor wire, Perform ESC calibration, Check radio system
ESC overheats	Insufficient ventilation, Motor/gear ratio too high, ESC overloaded	Ensure proper airflow, Adjust gear ratio, Use appropriate motor for ESC rating
Erratic control	Radio interference, Loose receiver connection, Low battery voltage	Check radio system, Secure receiver cable, Charge battery

SPECIFICATIONS

Key specifications for the Novak Club Sensored Brushless ESC:

- **Model:** 3930-2S
- **Material:** Plastic, Metal
- **Dimensions (L x W x H):** 5.2 x 3.8 x 1.8 inches
- **Weight:** Approximately 5 ounces (4.96 ounces)
- **Manufacturer:** NOVAK
- **Type:** Sensored Brushless Electric Speed Controller

WARRANTY AND SUPPORT

For warranty information or technical support regarding your Novak Club Sensored Brushless ESC, please contact Integy customer service or visit their official website. Keep your proof of purchase for any warranty claims.

Note: Specific warranty terms and conditions may vary and are subject to the manufacturer's policy at the time of purchase.

Related Documents

	<p><u>Integy Anti Roll Stabilizer Sway Bar Kit for Traxxas TRX-4 Installation Guide</u></p> <p>Step-by-step instructions for installing the Integy Anti Roll Stabilizer Sway Bar Kit (Part # C28411) on Traxxas TRX-4 vehicles. Includes detailed descriptions of parts and assembly steps.</p>
	<p><u>Integy Billet Machined Spare Tire Rack Set for Losi 1/10 Lasernut U4 4WD Brushless RTR Assembly Instructions</u></p> <p>Step-by-step assembly guide for the Integy Billet Machined Spare Tire Rack Set (Part # C31633) designed for the Losi 1/10 Lasernut U4 4WD Brushless RTR.</p>