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› RHINOESC AM32 Crawler ESC 80A Power System User Manual

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Model: Crawler AM32 80A

INTRODUCTION

The RHINOESC AM32 Crawler ESC 80A Power System is a high-performance electronic speed controller designed for 1/8 and 1/10 scale RC crawler cars, including models like Axial SCX10, Traxxas TRX-4, and TRX-6. It features AM32 custom firmware, providing smooth and quiet operation with precise low-speed control. This manual provides essential information for the proper setup, operation, maintenance, and troubleshooting of your ESC.



Figure 1: The RHINOESC AM32 Crawler ESC 80A, showing the main unit, USB Type-C link, and e-switch.

What's in the Box

Upon opening the package, verify that all components are present and undamaged:

- 1 x RHINOESC AM32 Crawler ESC
- 1 x BL32 USB Link
- 1 x Pack Box



Figure 2: Contents of the RHINOESC AM32 Crawler ESC 80A package, including the ESC, USB link, and e-switch.

SETUP

Follow these steps for initial setup and connection of your ESC:

1. **Connect to Motor:** Connect the three motor wires from the ESC to your brushless motor. Ensure correct phase connection for proper rotation.
2. **Connect to Battery:** Connect your 2-8S LiPo battery to the ESC's power input leads. Observe correct polarity.
3. **Connect to Receiver:** Plug the ESC's signal cable into the throttle channel of your RC receiver.
4. **BEC Voltage Adjustment:** The built-in BEC offers an adjustable output from 5.2V to 8.2V with a maximum current of 10A. This allows for compatibility with high-torque servos. Adjust the voltage using the DIP switches located on the ESC. Refer to the product diagram for switch locations.
5. **Software Configuration:** Connect the ESC to a computer using the provided USB Type-C cable for advanced configuration or firmware upgrades. This allows for fine-tuning of parameters such as sine mode power.



Figure 3: The RHINOESC AM32 Crawler ESC 80A with its various connection wires for motor, battery, and receiver.

OPERATING INSTRUCTIONS

The AM32 Crawler ESC is optimized for superior performance in RC crawler applications:

- **Smooth Low-Speed Control:** The sinewave startup feature enables the motor to operate smoothly at ultra-low speeds, providing precise control crucial for crawling.
- **Quiet Operation:** Variable drive frequency contributes to a super smooth and quiet running experience.
- **User-Friendly e-Switch:** The waterproof e-switch simplifies power on/off operations.
- **Versatile Application:** While optimized for crawlers, this ESC is also suitable for a variety of 1/8 scale or smaller RC cars.

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Video 1: Demonstration of the RHINOESC AM32 Crawler ESC 80A in action, showcasing its smooth low-speed control and crawling capabilities on various terrains.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your ESC:

- **Waterproof Design:** The ESC features a waterproof design, allowing for use in various conditions. However, always ensure proper drying after exposure to moisture to prevent long-term damage.
- **Firmware Updates:** Regularly check the manufacturer's website for the latest firmware updates. Updates can improve performance, add features, or resolve issues. Use the USB Type-C link to connect to your computer for updates.
- **Heat Management:** While designed for demanding use, prolonged high-load operation can generate heat. If the ESC becomes excessively hot during slow crawling, consider adjusting the "sine mode power" setting in the configuration software to a lower value (e.g., 5 or 6) to mitigate heat buildup.

TROUBLESHOOTING

If you encounter issues with your RHINOESC AM32 Crawler ESC, consider the following common problems and solutions:

- **Calibration Issues:** If the ESC does not calibrate correctly with your radio, ensure your radio's throttle endpoints are properly set. Consult online resources or manufacturer videos for specific calibration procedures for AM32 ESCs.
- **ESC Powers Off:** If the ESC powers off unexpectedly, especially when using 2-4S LiPo batteries, check all solder connections for continuity and ensure they are solid. Verify that the battery is adequately charged and capable of supplying the required current.
- **Overheating:** As mentioned in maintenance, if the ESC gets hot during slow crawling, adjust the "sine mode power" setting in the configuration software to a lower value (e.g., 5 or 6).
- **Servo Performance:** For optimal performance with high-torque servos, it may be necessary to use a direct power servo or an external Battery Eliminator Circuit (BEC) if the internal BEC's output is insufficient for your specific servo.

SPECIFICATIONS

Key technical specifications for the RHINOESC AM32 Crawler ESC 80A:

Feature	Specification
Product Dimensions	10 x 2 x 2.7 inches
Item Weight	0.634 ounces
Item Model Number	Crawler AM32 80A
BEC Output	5.2V - 8.2V Adjustable, 10A Max
Firmware	AM32 Custom Firmware
Compatibility	1/8, 1/10 Scale Crawler Cars



Figure 4: The RHINOESC AM32 Crawler ESC 80A being weighed, indicating its lightweight design.

WARRANTY AND SUPPORT

For warranty information, technical support, or further inquiries, please contact RHINOESC directly. Always refer to the official user guide for the most detailed and up-to-date information regarding your product.

Official User Guide (PDF): [Download Here](#)

Visit the RHINOESC Store: [RHINOESC Amazon Store](#)

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question