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Hobbywing XR8 Pro G3 Combo

Hobbywing XR8 Pro G3 Combo ESC and 4268SD 1900KV G3 Offroad Motor Instruction Manual

Model: XR8 Pro G3 Combo

1. Product Overview

The Hobbywing XR8 Pro G3 Combo features the XR8 Pro G3 Electronic Speed Controller (ESC) and a 4268SD 1900KV G3 Offroad Sensored Motor. This high-performance system is designed for 1/8 scale off-road and on-road racing, as well as 1/10 short course trucks and monster trucks. It offers advanced features such as multiple racing profiles, extensive adjustable parameters, and robust protection mechanisms.



Image: The Hobbywing XeRun XR8 Pro Electronic Speed Controller (ESC) and the XeRun 4268SD 1900KV Sensored Motor. The ESC is a compact black unit with a cooling fan, while the motor is a cylindrical black and silver component with cooling fins.

What's in the Box:

- (1) XeRun XR8 PRO G3 ESC
- (1) XeRun SD brushless motor (1900KV G3 Offroad)

2. Safety Information

WARNING: Failure to follow these safety guidelines may result in damage to the product or personal injury.

- Ensure all parts are connected properly. Incorrect connections or short circuits can damage the device and lead to loss of vehicle control.
- Verify power devices and instructions to ensure reasonable power matching.
- The external temperature of the ESC must not exceed 90°C (194°F). High temperatures can damage the ESC and motor. Utilize the ESC's overheat protection function.

- Always disconnect the battery from the ESC after use. Leaving them connected will cause the ESC to consume power, leading to complete battery discharge and potential damage to the battery or ESC. Damage caused by this is not covered by warranty.

3. Setup

3.1 Initial Connection

1. Connect the motor to the ESC according to the motor's phase wires (A, B, C).
2. Connect the ESC to your receiver's throttle channel.
3. Connect the battery to the ESC, ensuring correct polarity. The ESC features built-in reverse polarity protection, but correct connection is always recommended.

3.2 BEC Voltage Adjustment

The built-in switch mode BEC provides a maximum output of 12A and allows adjustable voltage options of 6V or 7.4V. This flexibility is suitable for various servos and other devices requiring different voltage levels. Refer to the detailed programming guide for specific adjustment procedures using the multi-function LCD G2 programming box or OTA Programmer.

3.3 Firmware Upgrades

The ESC supports firmware upgrades to access the latest functions and enhancements. Upgrades can be performed using the multi-function LCD G2 programming box, OTA Programmer, or Tunalyzer (available for purchase separately).

4. Operating Instructions

4.1 Pre-set Profiles

The XR8 Pro G3 ESC includes three common profiles suitable for all 1/8 racing applications, allowing for instant selection and use:

- Zero timing-Blinky mode
- 1/8 Off-Road Racing mode
- 1/8 On-Road Racing mode

4.2 Adjustable Parameters

The ESC offers 32 built-in adjustable parameters, providing flexibility to meet various power requirements. These parameters can be easily imported and exported, facilitating setup sharing among drivers. Refer to the detailed programming guide for a complete list and adjustment instructions.

4.3 Dual Brake Mode

The innovative closed-loop torque brake control mode, also known as the disc brake mode, addresses the non-linear force issues of traditional braking methods influenced by vehicle speed. It enables linear output of braking force, similar to real car disc brakes. This mode supports adjustment of braking force curvature and force distribution between front and rear sections. A traditional braking mode is also retained for driver preference.

4.4 Real-time Data Recording

The ESC features a data logging function. After connecting the OTA Bluetooth module, users can view various running data through the HW LINK app. This provides valuable insights for performance evaluation and tuning.

5. Maintenance

5.1 Dust and Environmental Protection

The ESC is IP5X rated, providing superior dustproof protection for operation in various environments. It also includes a small protective cover for enhanced fan protection.

5.2 Capacitor Thermal Protection

A capacitor thermal protection feature is integrated into the ESC. This design effectively prevents capacitors from exploding and causing irreversible damage due to overload, enhancing the longevity and reliability of the unit.

6. Troubleshooting

6.1 Reverse Polarity Protection

The ESC includes a built-in reverse connection protection circuit. In the event of an accidental reverse polarity connection, the ESC is designed to prevent damage.

6.2 Overheat Protection

The ESC is equipped with overheat protection. If the internal temperature exceeds safe operating limits, the ESC will reduce power or shut down to prevent damage. Allow the unit to cool down before resuming operation.

6.3 General Issues

- **No Power:** Check battery connection, ESC switch, and ensure battery is charged.
- **No Motor Response:** Verify motor connections, sensor wire (if applicable), and receiver/transmitter binding.
- **Erratic Behavior:** Check for radio interference, loose connections, or incorrect ESC calibration.

7. Specifications

Feature	Specification
Model Name	XR8 Pro G3 Combo
ESC Input Voltage	2-4S Lipo
BEC Output	6V/7.4V Adjustable, Continuous Current: 6A (Switch-mode), Max 12A
Motor Type	Brushless, Sensored
Motor KV	1900KV
Applications	1/8 Off-road, On-road Racing & 1/10 Short course truck, Monster truck
Dimensions (Product)	7 x 2.1 x 5.1 inches
Weight (Item)	1.5 Pounds
Dustproof Rating	IP5X
Item Model Numbers	38020432, 38020433

8. Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Hobbywing North America directly. Refer to the official Hobbywing website for the most current support contact information and detailed

product manuals.

Online Resources: For additional information, programming guides, and software downloads, please visit the official Hobbywing website.

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