## Hobbywing XR8 Plus G2s Combo (Xerun 4268 SD G3 1900KV)

# HOBBYWING XR8 Plus G2s Combo Instruction Manual

Model: XR8 Plus G2s Combo (Xerun 4268 SD G3 1900KV)

## 1. Introduction

This manual provides detailed instructions for the proper setup, operation, and maintenance of your HOBBYWING XR8 Plus G2s Combo. This high-performance power system is designed for 1/8 scale RC vehicles, offering advanced features and robust performance. Please read this manual thoroughly before using the product to ensure optimal performance and longevity.




This image displays the Hobbywing XR8 Plus G2s Electronic Speed Controller (ESC) on the right, featuring its cooling fan, capacitor bank, and power switch. To the left is the Xerun 4268 SD G3 1900KV sensored motor, identifiable by its ribbed casing and shaft.

## 2. Setup

Proper installation and connection are crucial for the safe and efficient operation of your XR8 Plus G2s Combo.

### 2.1 Component Identification

- **XERUN XR8 Plus G2s ESC:** Electronic Speed Controller responsible for motor power management.
- **XERUN 4268 SD G3 1900KV Motor:** Sensored brushless motor.
- **Power Switch:** Integrated on the ESC for convenient power control.
- **BEC Output:** Built-in Battery Eliminator Circuit providing adjustable voltage for receiver and servo.

### 2.2 Connection Procedure

1. **Motor Connection:** Connect the three motor wires from the ESC to the motor. Ensure correct phase matching (A-A, B-B, C-C).

2. **Battery Connection:** Connect your LiPo battery pack to the ESC's battery input wires. Ensure correct polarity (red to positive, black to negative) to prevent damage. The ESC features built-in reverse connection protection.
3. **Receiver Connection:** Plug the ESC's throttle cable into the throttle channel (usually Channel 2) of your RC receiver.
4. **Servo Connection:** Connect your steering servo to the appropriate channel on your receiver (usually Channel 1). The ESC's built-in BEC provides adjustable voltage from 6V to 8.4V (0.1V step) to power the receiver and servo.

### 2.3 Initial Calibration

After all connections are made, perform a throttle range calibration with your radio system according to the ESC's specific instructions (refer to the detailed ESC manual for precise steps). This ensures proper synchronization between your transmitter and the ESC.

## 3. Operating

The XR8 Plus G2s Combo offers a range of features for optimized performance.

### 3.1 Driving Modes and Profiles

The ESC comes with 5 common built-in profiles suitable for various 1/8 racing scenarios, including Zero timing-Blinky mode, 1/8 Off-Road Racing, 1/8 On-Road Racing, 1/8 GT Racing, and 1/8 Sport mode. These can be selected and used instantly.

### 3.2 Adjustable Parameters

There are 30 built-in adjustable parameters to fine-tune various power requirements. These parameters can be imported and exported, facilitating sharing and learning among users.

### 3.3 Firmware Upgrade

The ESC firmware can be upgraded to access the latest functions and improvements. A multi-function LCD programming box or an OTA Programmer (sold separately) is required for this process.

### 3.4 Boost and Turbo Timing

The system supports up to 48 degrees of Boost and Turbo timing. When paired with the XERUN 4268/4274 G3 motor, this feature can increase the maximum speed by up to 50%, providing a significant performance advantage.

### 3.5 Data Recording

- **Real-time Data:** By connecting the ESC with HW Link (requires OTA Programmer, sold separately) and a mobile app, you can monitor throttle quantity, voltage, current, temperature, RPM, and other data in real-time.
- **Offline Data:** The system records offline data, allowing you to read extreme values such as maximum ESC and motor temperature, and maximum motor RPM via the LCD program box or HW Link app. You can also view historical running data graphs in the HW Link app.

## 4. Maintenance

Regular maintenance ensures the longevity and reliable performance of your HOBBYWING XR8 Plus G2s Combo.

- **Cleaning:** Keep the ESC and motor clean from dirt, dust, and debris. Use a soft brush or compressed air.
- **Inspection:** Periodically inspect all wires and connectors for signs of wear, damage, or loose connections.
- **Cooling:** Ensure the ESC's cooling fan is free from obstructions and functioning correctly. Adequate airflow is

essential to prevent overheating.

- **Storage:** Store the components in a dry, cool environment away from direct sunlight and extreme temperatures.

## 5. Troubleshooting

This section addresses common issues and their potential solutions.

### 5.1 Common Protection Features

The XR8 Plus G2s ESC includes multiple protection features:

- **Low Voltage Protection:** Automatically cuts off power to prevent over-discharge of the battery. Ensure your battery is fully charged before use.
- **Thermal Protection:** Protects the ESC, motor, and capacitors from damage due to excessive heat. If the system overheats, allow it to cool down before resuming operation. Check for proper ventilation and gearing.
- **Reverse Connection Protection:** Prevents damage to the ESC if the battery is connected with incorrect polarity.

### 5.2 Performance Issues

- **Motor Not Responding:** Check all connections (battery, motor, receiver). Ensure the ESC is calibrated to your transmitter. Verify battery charge.
- **Reduced Power/Speed:** Check battery voltage and condition. Inspect motor and ESC for signs of overheating. Review ESC parameters for optimal settings.
- **Erratic Behavior:** Check for radio interference. Ensure all wires are securely connected and not damaged.

### 5.3 Environmental Considerations

**Important Note:** This product is **NOT WATERPROOF**. Exposure to water or excessive moisture can cause severe damage to the electronic components and void the warranty. Avoid operating the product in wet conditions, including rain, puddles, or high humidity environments.

## 6. Specifications

| Feature | Specification |
|---|---|
| Product Dimensions | 7.75 x 6 x 2.5 inches |
| Item Weight | 1.73 Pounds |
| Manufacturer Recommended Age | 18 years and up |
| Manufacturer | Hobbywing Technology |
| Country of Origin | China |
| Material | Plastic |
| ESC Model | XERUN XR8 Plus G2S |
| ESC Continuous/Peak Current | 200A / 1080A |
| BEC Output Voltage | 6-8.4V Adjustable (0.1V step) |

| Feature | Specification |
| --- | --- |
| BEC Continuous/Peak Current | 6A / 15A (Switch-mode) |
| Motor Model | XERUN-4268SD-1900KV-G3-OffRoad |
| Motor Poles | 4 Pole |
| Motor Input Voltage Range | 2-6s LiPo |
| Application | 1/8 On-Road/Off-Road/Truggy Racing |

## 7. Warranty and Support

For specific warranty terms and conditions, please refer to the official Hobbywing website or contact Hobbywing customer support directly. Warranty coverage typically addresses manufacturing defects and may require proof of purchase.
For technical assistance, troubleshooting beyond this manual, or inquiries regarding parts and service, please contact Hobbywing customer support through their official channels. Provide your product model and any relevant details to facilitate efficient support.

© 2024 Hobbywing Technology. All rights reserved.


### 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.

**Name**

Anonymous

**Email**

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

**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