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Hobbywing HWI38020500

HOBBYWING XR8 Plus G2s Combo User Manual

Model: HWI38020500

1. Introduction

This manual provides essential information for the proper setup, operation, and maintenance of your HOBBYWING XR8 Plus G2s Combo. This high-performance system includes the XR8 PLUS G2s Electronic Speed Controller (ESC) and the Xerun 4268 SD G3 1900KV Sensored Motor, designed for 1/8 scale RC racing applications. Please read this manual thoroughly before use to ensure optimal performance and longevity of your equipment.



Figure 1: The HOBBYWING XR8 Plus G2s Combo, featuring the XR8 Plus ESC on the right with its integrated fan and power button, and the Xerun 4268 SD G3 1900KV sensored motor on the left.

2. Setup and Installation

2.1 Component Identification

- **XR8 PLUS G2s ESC:** Electronic Speed Controller with built-in BEC and programming port.
- **Xerun 4268 SD G3 1900KV Motor:** Sensored brushless motor.
- **Capacitor Module:** Provides stable power delivery.
- **Power Switch:** On/Off button for the ESC.

2.2 Wiring Connections

1. **Motor Connection:** Connect the three motor wires (A, B, C) from the ESC to the corresponding motor terminals. Ensure correct phase matching for proper rotation. If the motor rotates in the wrong direction, swap any two of the three wires.
2. **Battery Connection:** Connect the battery connector to the ESC's battery input wires (red for positive, black for negative). Ensure polarity is correct to prevent damage. The ESC features built-in reverse connection protection.
3. **Receiver Connection:** Plug the ESC's throttle cable (usually black, red, white) into the throttle channel (CH2) of your receiver.
4. **Sensor Cable Connection:** Connect the sensor cable from the motor to the sensor port on the ESC. This enables sensored operation for smooth low-speed performance.
5. **Cooling Fan:** The ESC has an integrated cooling fan. Ensure it is not obstructed for optimal heat dissipation.

2.3 ESC Calibration

Before first use, the ESC must be calibrated to your radio system's throttle range.

1. Turn on your transmitter and set the throttle trim to neutral. Disable ABS braking and any throttle curve settings.
2. With the ESC turned off, press and hold the SET button on the power switch.
3. While holding the SET button, turn on the ESC. The red LED on the ESC will flash. Release the SET button when the red LED starts flashing.
4. **Neutral Position:** Leave the throttle trigger at the neutral position. Press the SET button once. The green LED will flash once.
5. **Full Throttle Position:** Pull the throttle trigger to the full throttle position. Press the SET button once. The green LED will flash twice.
6. **Full Brake Position:** Push the throttle trigger to the full brake position. Press the SET button once. The green LED will flash three times.
7. The ESC is now calibrated and ready for use.

3. Operation

3.1 Powering On/Off

- **To Power On:** Ensure all connections are secure. Press the power button on the switch module. The ESC will emit a series of tones indicating battery cell count.
- **To Power Off:** Press and hold the power button until the ESC turns off.

3.2 Driving Modes and Parameters

The XR8 PLUS G2s ESC comes with 5 pre-set profiles suitable for various 1/8 racing scenarios, including Zero timing-Blinky mode, Off-Road Racing, On-Road Racing, GT Racing, and Sport mode.
The ESC supports 30 adjustable parameters for fine-tuning performance. These parameters can be adjusted using a multi-function LCD programming box or an OTA Programmer (sold separately) in conjunction with the HW Link mobile application.

- **Boost and Turbo Timing:** Supports up to 48 degrees of Boost and Turbo timing when paired with the Xerun

4268/4274 G3 motor, significantly increasing maximum speed.

- **BEC Voltage Adjustment:** The built-in switch mode BEC offers a maximum output of 15A and adjustable voltage from 6V to 8.4V (0.1V step) to power servos and other devices.

3.3 Data Recording

The ESC supports real-time and offline data recording.

- **Real-time Data:** Connect the ESC with an OTA Programmer (sold separately) and the HW Link mobile app to monitor throttle quantity, voltage, current, temperature, and RPM in real-time.
- **Offline Data:** View historical running data (graphs) and extreme values (max temperature, max RPM) through the LCD program box or HW Link app (with OTA Programmer).

4. Maintenance

- **Cleaning:** Regularly clean the ESC and motor to remove dirt, dust, and debris. Use a soft brush or compressed air. Avoid using solvents or harsh chemicals.
- **Fan Inspection:** Periodically check the cooling fan on the ESC for obstructions or damage. Ensure it spins freely.
- **Wire and Connector Check:** Inspect all wires and connectors for signs of wear, fraying, or corrosion. Ensure all connections are secure.
- **Motor Bearings:** For optimal motor performance, inspect and lubricate motor bearings as needed, following standard RC motor maintenance practices.
- **Storage:** When not in use, store the combo in a dry, cool place away from direct sunlight and extreme temperatures.

5. Troubleshooting

Problem	Possible Cause	Solution
ESC does not power on.	Battery not connected, low battery voltage, faulty power switch.	Check battery connection and charge level. Inspect power switch.
Motor does not spin or stutters.	Incorrect motor wiring, sensor cable disconnected/damaged, incorrect ESC calibration.	Verify motor phase connections. Check sensor cable. Re-calibrate ESC.
ESC overheats.	Insufficient cooling, excessive gearing, motor overload.	Ensure fan is clear. Adjust gearing. Reduce load on motor.
Vehicle runs in reverse when throttle is applied forward.	Motor wires connected incorrectly.	Swap any two of the three motor wires (A, B, C).
No response from throttle.	ESC not calibrated, receiver not powered, radio interference.	Perform ESC calibration. Check receiver power and connections. Check radio system.

For more detailed troubleshooting or advanced issues, refer to the official Hobbywing support resources or contact their customer service.

6. Specifications

Feature	Detail
Product Model Name	HWI38020500
ESC Continuous/Peak Current	200A / 1080A
BEC Output	6-8.4V Adjustable, 6A/15A (Switch-mode)
Motor Type	Xerun 4268 SD G3 1900KV Sensored Motor
Motor Poles	4 Pole
Input Voltage (Motor)	2-6s LiPo
Material	Plastic
Item Weight	1.73 Pounds (0.78 kg)
Product Dimensions	7.75 x 6 x 2.5 inches (19.7 x 15.2 x 6.35 cm)
Manufacturer	Hobbywing Technology
UPC	088718516488

7. Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the official Hobbywing website or contact their authorized distributors. Keep your purchase receipt as proof of purchase for any warranty claims.
Manufacturer: Hobbywing Technology

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