Hobbywing 30112613

Hobbywing Xerun XR10 Pro G2S ESC - Stealth User Manual

Model: 30112613

1. Introduction

This manual provides essential information for the proper setup, operation, and maintenance of your Hobbywing Xerun XR10 Pro G2S ESC. Please read this manual thoroughly before using the product to ensure optimal performance and safety.
The Hobbywing Xerun XR10 Pro G2S ESC features a high-performance 32-bit M4 microprocessor, which significantly enhances its processing capabilities. This allows for more complex and precise data operations, leading to rapid response times and extensive functional optimization.

2. Safety Information

For external use only.
The XeRun XR10 PRO G2S is designed with reverse polarity protection. In the event of an accidental reverse polarity connection, the ESC itself is protected from damage. However, the standard capacitor included with the ESC may be damaged under such circumstances. To prevent any damage, optional non-polarity capacitors (Item number: 30840004, 30840005) are available for purchase and can be used to avoid issues from reverse polarity. Always ensure proper connections and handle the ESC with care. Keep out of reach of children under 8 years of age.

3. What's in the Box

- Hobbywing Xerun XR10 Pro G2S ESC

Note: Additional accessories such as cables, connectors, or programming devices may be sold separately.

4. Product Overview and Components



Figure 1: Fully assembled Hobbywing Xerun XR10 Pro G2S ESC with cooling fan. This image shows the compact design and primary connections.



Figure 2: Exploded view illustrating the removal or installation of the cooling fan on the ESC. Note the mounting screws and fan connector.



Figure 3: Top and bottom views of the ESC, highlighting various connection points such as motor phase outputs (A, B, C), battery input (+, -), and programming/fan ports.

5. Setup

5.1 Connecting the ESC

1. **Motor Connection:** Connect the three motor wires (A, B, C) from the ESC to the corresponding motor phase wires. Ensure secure connections.
2. **Battery Connection:** Connect the battery input wires (red for positive, black for negative) from the ESC to your battery pack. Double-check polarity before connecting.
3. **Receiver Connection:** Plug the ESC's throttle cable into the throttle channel (usually channel 2) of your RC receiver.
4. **Cooling Fan:** If not pre-installed, connect the cooling fan to the designated "PRG FAN" port on the ESC (refer to Figure 2).
5. **Capacitor Module:** Ensure the capacitor module is securely connected to the ESC.

5.2 ESC Calibration

Before first use, the ESC must be calibrated to your radio system's throttle range. Refer to your radio system's manual for specific calibration procedures, which typically involve:

- Turning on the radio and setting throttle trim to neutral.
- Holding the ESC's SET button while powering on the ESC.
- Releasing the SET button when the LED flashes.
- Setting throttle to full throttle, then full brake, then neutral, confirming each position with the SET button.

6. Operating Instructions

6.1 Powering On/Off

- **To Power On:** Ensure all connections are secure. Turn on your radio transmitter first, then connect the battery to the ESC. The ESC will emit a series of tones indicating successful power-up.
- **To Power Off:** Disconnect the battery from the ESC first, then turn off your radio transmitter.

6.2 Basic Operation

Once calibrated, the ESC will respond to your radio's throttle input. Push the throttle stick forward for acceleration and pull it back for braking/reverse (if enabled). Always operate your RC vehicle in a safe and open area, away from people and obstacles.

6.3 Programming the ESC

The Xerun XR10 Pro G2S ESC offers various programmable parameters to fine-tune performance. These parameters can typically be adjusted using a dedicated Hobbywing program box (sold separately) or via PC software. Refer to the Hobbywing website or the program box manual for detailed programming instructions and available parameters.

7. Maintenance

- **Cleaning:** Regularly clean the ESC and cooling fan to remove dust, dirt, and debris. Use a soft brush or compressed air. Ensure no moisture enters the unit.
- **Inspection:** Periodically inspect all wires, connectors, and solder joints for signs of wear, damage, or corrosion. Replace any damaged components immediately.
- **Fan Check:** Ensure the cooling fan spins freely and is not obstructed. A malfunctioning fan can lead to overheating.
- **Storage:** When not in use, store the ESC in a dry, cool place, away from direct sunlight and extreme temperatures.

8. Troubleshooting

Problem	Possible Cause	Solution
ESC does not power on.	Battery not connected, low battery voltage, faulty power switch, incorrect polarity.	Check battery connection and charge level. Inspect power switch. Verify correct battery polarity.
Motor does not respond to throttle.	ESC not calibrated, receiver not connected, motor wires loose, radio interference.	Perform ESC calibration. Check receiver connection. Secure motor wires. Check radio system.
ESC overheats.	Improper gearing, fan obstructed/faulty, excessive load, insufficient airflow.	Adjust gearing. Clean/replace fan. Reduce load. Ensure proper ventilation.
Erratic motor behavior.	Loose motor connections, sensor wire issue (if sensored motor), ESC programming error.	Check all motor connections. Inspect sensor wire. Reset ESC to default settings or re-program.

If the problem persists after attempting these solutions, please contact Hobbywing customer support or your authorized dealer.

9. Specifications

Feature	Detail
Model Number	30112613

Feature	Detail
Product Dimensions	4.25 x 3 x 2 inches
Item Weight	3.99 ounces
Manufacturer	Hobbywing Technology
Recommended Age	8 years and up
Microprocessor	32-bit M4

10. Warranty Information

Hobbywing products are typically covered by a limited warranty against manufacturing defects. For specific warranty terms, duration, and claim procedures, please refer to the official Hobbywing website or contact your authorized dealer. Keep your proof of purchase for warranty claims.

11. Customer Support

For technical assistance, troubleshooting beyond this manual, or inquiries regarding your Hobbywing Xerun XR10 Pro G2S ESC, please contact Hobbywing customer support directly or reach out to your authorized Hobbywing dealer. Contact information can usually be found on the official Hobbywing website.

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