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Hobbywing HWI30112600

Hobbywing XeRun XR10 Pro 160A Brushless Vehicle Speed Controller

Model: HWI30112600

1. Introduction

Thank you for purchasing the Hobbywing XeRun XR10 Pro 160A Brushless Vehicle Speed Controller. This high-performance ESC is designed for competitive RC vehicle applications, offering precise control and robust power delivery. Please read this manual thoroughly before use to ensure proper setup, operation, and maintenance.

The XR10 Pro features high continuous current output, an integrated high-voltage/current BEC, efficient cooling with a heatsink and fan, 12AWG wiring, and a separate programming port for advanced customization.

2. Safety Precautions

- Always disconnect the battery from the ESC after use.
- Ensure all connections are secure and properly insulated to prevent short circuits.
- Do not expose the ESC to water or moisture unless it is specifically rated as waterproof.
- Operate in a well-ventilated area to prevent overheating.
- Keep out of reach of children. Recommended age for use is 15 years and up.
- Use only compatible batteries and motors as specified by Hobbywing.

3. Product Overview

The Hobbywing XeRun XR10 Pro 160A ESC is a compact and powerful unit designed for optimal performance in RC vehicles. Key components include the main ESC unit, cooling fan, and various connection ports.



Figure 3.1: Exploded view of the XeRun XR10 Pro ESC showing the main unit, detachable cooling fan, and mounting screws. The image also shows the top view of the assembled ESC with its fan and gold-plated motor terminals.

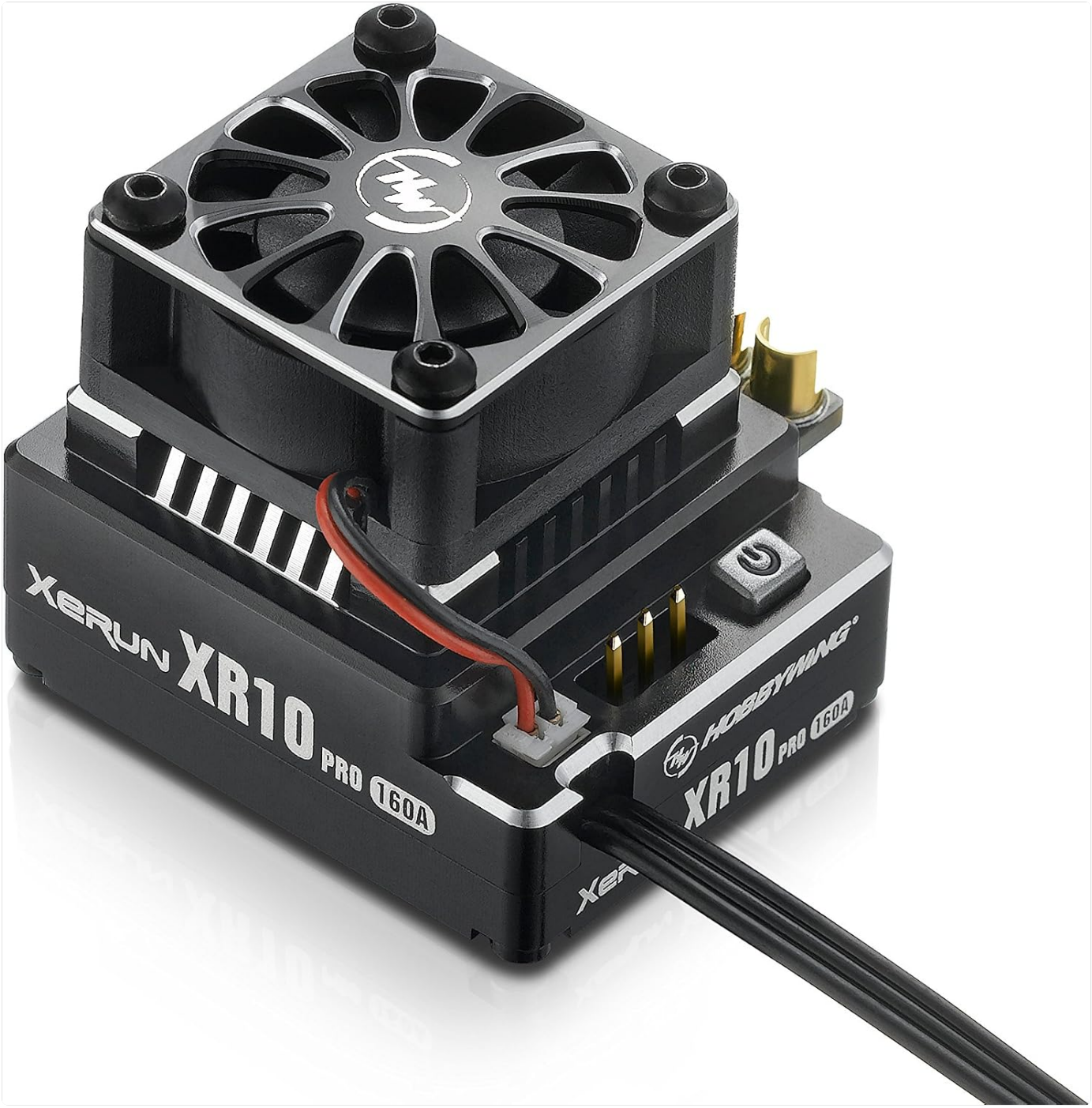


Figure 3.2: Side view of the XeRun XR10 Pro ESC, highlighting the cooling fan mounted on top of the heatsink. The main power wires and the programming port are visible.

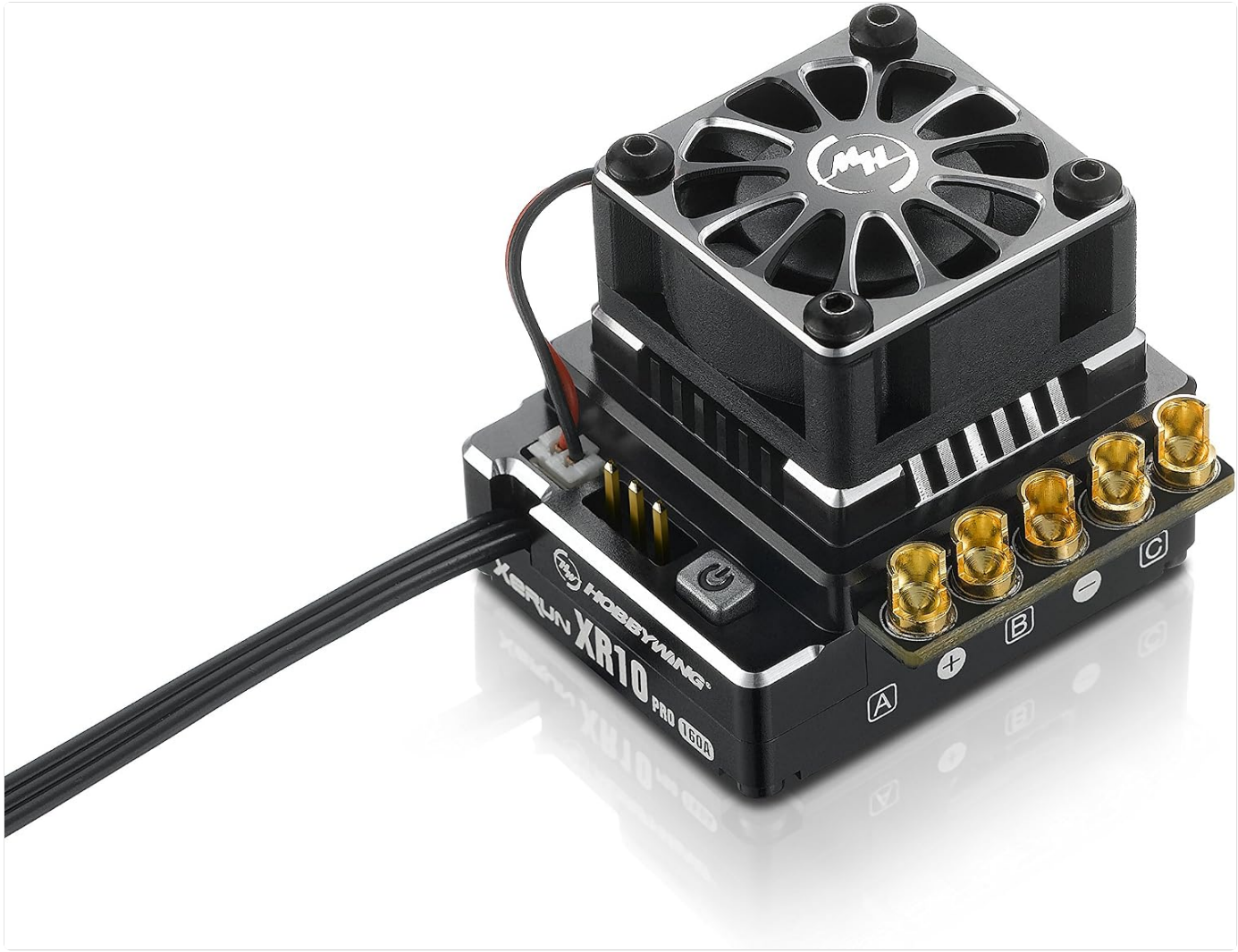


Figure 3.3: Angled view of the XeRun XR10 Pro ESC, showing the gold-plated terminals for motor connections (A, B, C) and the power button. The fan and main unit are clearly visible.

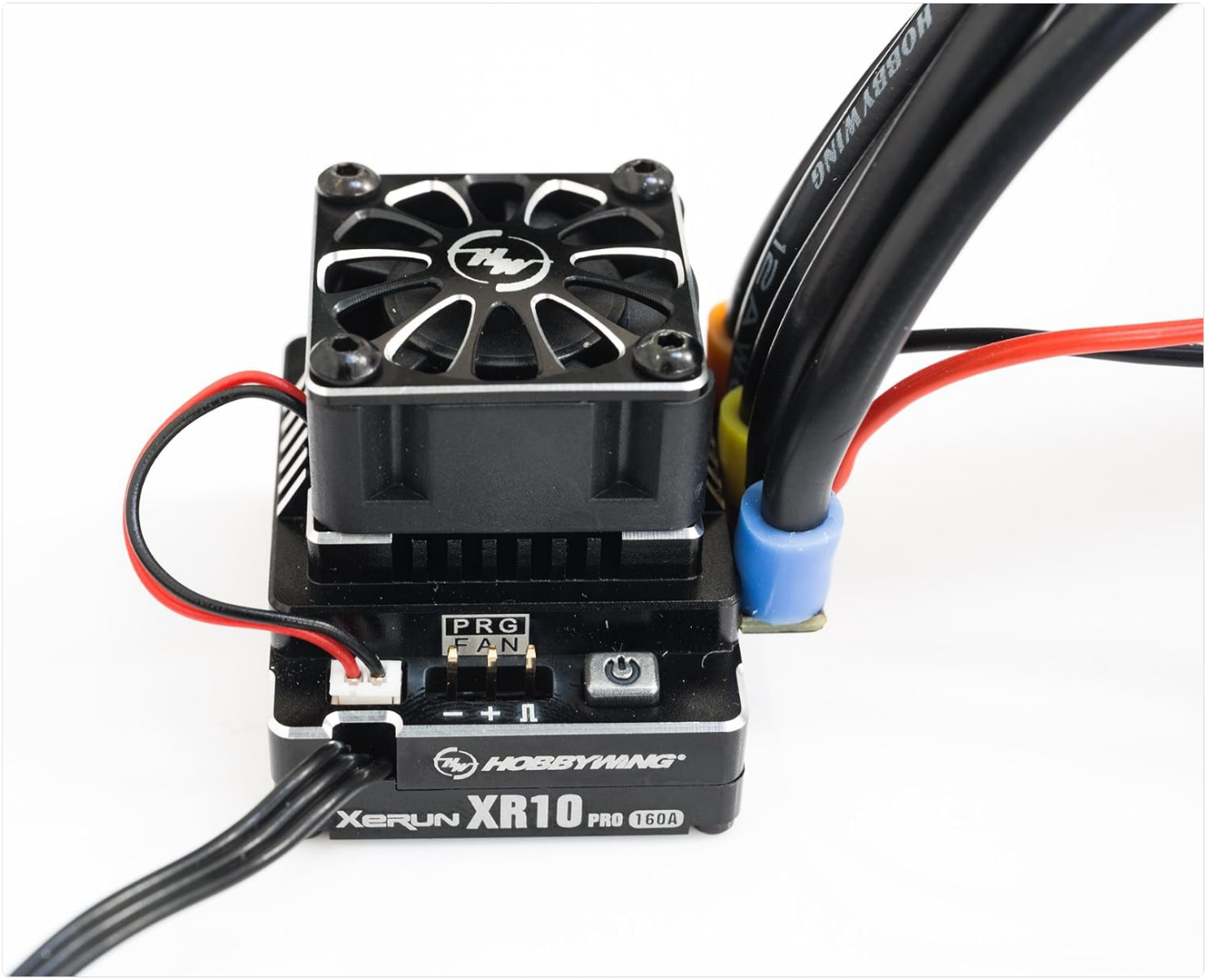


Figure 3.4: Top-down view of the XeRun XR10 Pro ESC with all wires connected, including the main power wires, motor wires, and the fan wire. The programming port (PRG FAN) is also visible.



Figure 3.5: Close-up view of the high-quality 12AWG silicone wires supplied with the ESC, showing their flexibility and robust construction suitable for high current applications.

4. Setup

4.1 Wiring Connections

1. **Motor Connection:** Connect the three motor wires (A, B, C) from the ESC to the corresponding phases of your brushless motor. Ensure correct polarity for proper rotation.
2. **Battery Connection:** Connect the positive (+) and negative (-) wires from the ESC to your battery pack. Double-check polarity to avoid damage.
3. **Receiver Connection:** Plug the ESC's throttle cable into the throttle channel (usually Channel 2) of your RC receiver.
4. **Cooling Fan:** Connect the cooling fan to the dedicated fan port on the ESC.

4.2 ESC Calibration

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

1. Turn on your transmitter and ensure throttle trim is at neutral.
2. Hold the ESC's power button while turning on the ESC. Release the button when the LED flashes.
3. Set throttle to full forward, then full reverse, then neutral as indicated by the ESC's LED and beeps.
4. The ESC will confirm successful calibration.

5. Operating Instructions

5.1 Powering On/Off

- To power on, ensure the ESC is connected to the battery, then press and hold the power button until the LED illuminates.
- To power off, press and hold the power button until the LED turns off.

5.2 Programming the ESC

The XR10 Pro offers extensive programmable features. Use a Hobbywing LCD Program Box (sold separately) connected to the dedicated programming port for advanced settings adjustment.



Figure 5.1: Elevated view of the XeRun XR10 Pro ESC, showing the compact design and the location of the programming port (PRG FAN) next to the power button.

Refer to the Hobbywing LCD Program Box manual for detailed programming instructions and available parameters such as throttle curves, brake force, timing, and more.

6. Maintenance

- **Cleaning:** Regularly clean the ESC and cooling fan to remove dust and debris. Use a soft brush or compressed air.
- **Fan Inspection:** Periodically check the cooling fan for proper operation and ensure it is free from obstructions. Replace if damaged or noisy.
- **Wire Inspection:** Inspect all wires and connectors for signs of wear, fraying, or corrosion. Repair or replace as necessary.
- **Storage:** Store the ESC in a dry, cool place away from direct sunlight and extreme temperatures.

7. Troubleshooting

Problem	Possible Cause	Solution
ESC does not power on.	Battery not connected or discharged; faulty power switch.	Check battery connection and charge; inspect power switch.

Problem	Possible Cause	Solution
Motor not responding or erratic.	Incorrect ESC calibration; motor wires loose; faulty motor.	Recalibrate ESC; check motor wire connections; test motor.
ESC overheats.	Improper gearing; fan not working; excessive load.	Adjust gearing; check/replace fan; reduce load or use a higher KV motor.
No reverse or inconsistent reverse.	Reverse function disabled in programming; throttle calibration issue.	Enable reverse via program box; recalibrate throttle.

For further assistance, please contact Hobbywing customer support.

8. Specifications

Feature	Detail
Model	XeRun XR10 Pro 160A
Continuous Current	160A
BEC Output	High voltage/current built-in (SBEC 6V/7.4V)
Input Voltage	2-3S LiPo
Wiring	12AWG
Cooling	Heatsink design and fan included
Programming Port	Separate port
Dimensions	12.7 x 5.08 x 8.89 cm
Weight	90.72 g
Material	Plastic



Figure 8.1: Bottom view of the XeRun XR10 Pro ESC, displaying regulatory compliance markings such as CE and RoHS, indicating adherence to European safety and environmental standards.

9. Warranty and Support

Hobbywing products are manufactured to high standards and come with a limited warranty against defects in materials and workmanship. Please retain your proof of purchase for warranty claims.

For warranty service, technical support, or general inquiries, please contact Hobbywing North America directly. Contact information can typically be found on the official Hobbywing website or through your authorized dealer.

Manufacturer: Hobby Wing

Place of Business: WEST VALLEY CITY, UT, 84119 US

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