

HOBBYWING 30113300BK

Hobbywing XeRun XR8 Plus Speed Controller User Manual

Model: 30113300BK

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Hobbywing XeRun XR8 Plus Brushless Electronic Speed Controller (ESC). Please read this manual thoroughly before using the product to ensure correct usage and to prevent damage or injury.

SAFETY PRECAUTIONS

- Always disconnect the battery from the ESC when not in use.
- Ensure all connections are secure and correctly polarized to prevent short circuits.
- Avoid operating the ESC in wet conditions unless specifically designed for it.
- Keep the ESC away from heat sources and ensure adequate ventilation during operation.
- This product is not a toy. Keep out of reach of children.
- Refer to the battery manufacturer's instructions for safe handling and charging.

PRODUCT OVERVIEW

The Hobbywing XeRun XR8 Plus is a high-performance brushless electronic speed controller designed for RC vehicles. It features robust construction and advanced control capabilities.



Figure 1: Top view of the Hobbywing XeRun XR8 Plus Speed Controller, showing the cooling fan, capacitor bank, and motor output terminals (A, B, C) along with the sensor port.



Figure 2: Exploded view illustrating the detachable cooling fan assembly and the main ESC unit, highlighting the heat sink fins.

Key Features:

- High-efficiency heat-dissipating system with detachable cooling fan.
- Built-in Super BEC with adjustable output voltage (6V/7.2V) and up to 15A current.
- Electronic switch with a long lifespan.
- Waterproof and dust-proof design for various conditions.
- Designed for 1/8 scale off-road top-level races.

SETUP

1. Wiring Connections:

1. **Motor Connection:** Connect the three motor wires (A, B, C) from the ESC to the corresponding motor phases. Ensure correct phasing for proper motor rotation. For sensored motors, connect the sensor cable from the motor to the ESC's sensor port.
2. **Battery Connection:** Connect the battery connector to the ESC's battery input wires. Ensure correct polarity (red to positive, black to negative).
3. **Receiver Connection:** Plug the ESC's throttle cable into the throttle channel (usually channel 2) of your RC receiver.
4. **Cooling Fan:** Ensure the cooling fan is securely attached and its power cable is connected to the

designated port on the ESC.

2. ESC Mounting:

Mount the ESC securely in your vehicle using double-sided tape or screws. Ensure it is positioned to receive adequate airflow for cooling and is protected from impacts.

3. Calibration:

Before first use, calibrate the ESC with your radio system. Refer to the detailed calibration procedure in the full product manual (if available) or the manufacturer's website. Typically, this involves setting the neutral, full throttle, and full brake points.

OPERATING

1. Powering On/Off:

- **To Power On:** Connect the battery, then press and hold the power button on the electronic switch until the LED illuminates.
- **To Power Off:** Press and hold the power button until the LED turns off. Always disconnect the battery after powering off.

2. Driving:

Once calibrated and powered on, the ESC is ready for operation. Use your radio transmitter to control the throttle. Monitor the ESC temperature during initial runs, especially in new setups or demanding conditions.

3. Programming:

The ESC can be programmed using a Hobbywing program box (sold separately) to adjust various parameters such as throttle curves, brake force, timing, and BEC voltage. Consult the program box manual for detailed instructions.

MAINTENANCE

- **Cleaning:** Regularly clean the ESC and cooling fan to remove dirt, dust, and debris. Use a soft brush or compressed air.
- **Inspection:** Periodically inspect all wires and connectors for signs of wear, damage, or corrosion. Replace damaged components immediately.
- **Cooling Fan:** Ensure the cooling fan operates freely and is not obstructed. Replace if it becomes noisy or stops working.
- **Storage:** Store the ESC in a dry, cool place away from direct sunlight and extreme temperatures.

TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|-------------------------------------|---|--|
| ESC does not power on. | Battery not connected, low battery voltage, faulty switch. | Check battery connection and charge. Inspect the electronic switch. |
| Motor does not respond to throttle. | Incorrect calibration, receiver not connected, motor wires loose. | Recalibrate ESC. Check receiver connection. Verify motor wire connections. |

| Problem | Possible Cause | Solution |
|------------------------|--|---|
| Motor runs in reverse. | Incorrect motor phasing. | Swap any two of the three motor wires (A, B, C). |
| ESC overheats. | Insufficient cooling, incorrect gearing, motor overload. | Ensure fan is clear and working. Adjust gearing. Reduce load. |

SPECIFICATIONS

| Feature | Detail |
|------------------------|---|
| Model Number | 30113300BK |
| Dimensions (L x W x H) | 5.87 x 4.8 x 3.69 cm |
| Weight | 127 g |
| Material | Metal |
| Power Source Type | Battery |
| Assembly Required | Yes |
| Manufacturer | Hobbywing |
| Included Components | 1 package (typically includes ESC, fan, and basic wiring) |

WARRANTY INFORMATION

This Hobbywing XeRun XR8 Plus Speed Controller comes with a **2-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use. It does not cover damage resulting from misuse, accident, modification, or improper installation. Please retain your proof of purchase for warranty claims.

For specific warranty terms and conditions, please refer to the official Hobbywing website or contact their customer support.

SUPPORT

For further assistance, technical support, or to download the complete detailed manual, please visit the official Hobbywing website:

www.hobbywing.com

You may also contact Hobbywing customer service directly for product-related inquiries.