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Hobbywing Quicrun-WP-16BL30

HobbyWing Quicrun-WP-16BL30 Waterproof ESC Instruction Manual

Model: Quicrun-WP-16BL30 (HWI30110000)
Brand: Hobbywing

Introduction

This manual provides essential instructions for the proper installation, operation, and maintenance of your HobbyWing Quicrun-WP-16BL30 Waterproof Electronic Speed Controller (ESC). This ESC is designed for 1/16th and 1/18th scale touring cars, buggies, trucks, and monster trucks. Please read this manual thoroughly before use to ensure optimal performance and safety.

Safety Precautions

- Always disconnect the battery from the ESC when not in use.
- Ensure all connections are secure and properly insulated to prevent short circuits.
- Avoid operating the ESC in extreme temperatures or conditions beyond its specified limits.
- Keep the ESC away from moisture and corrosive materials, despite its waterproof design, to prolong its lifespan.
- Supervise children during operation of RC vehicles.
- Refer to your RC vehicle's manual for additional safety guidelines.

Product Features

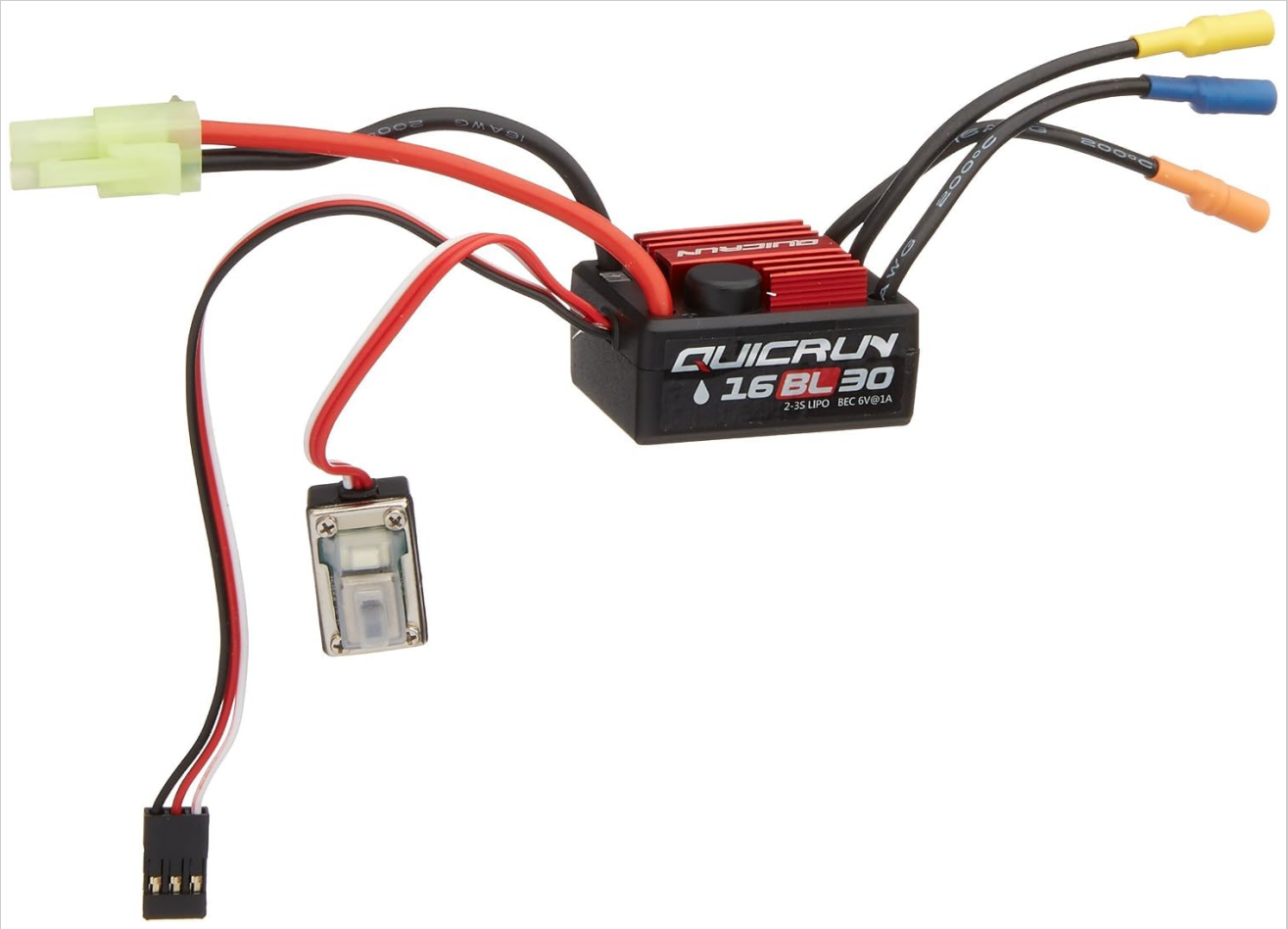
- Waterproof and dust-proof design for all-weather conditions.
- Specifically designed for new beginners and intermediate modelers.
- High power output with overload protection.
- Applicable to 1/18th, 1/16th scale Touring cars, buggies, trucks, and monster trucks.
- Cont./Peak Current: 30A/180A

- Input: 2-3S LiPo / 6-9 Cells NiMH
- BEC Output: Linear Mode: 6V/1A
- Motor Compatibility: 2S LiPo: 1/10th touring cars KV≤8000, 1/10th buggies KV≤5000; 3S LiPo: 1/10th touring cars KV≤5500, 1/10th buggies KV≤3500 (2435 motors).

Setup and Installation

Proper installation is crucial for the performance and longevity of your ESC.

Wiring Diagram



This image displays the HobbyWing Quicrun-WP-16BL30 Waterproof ESC. The main body of the ESC is black with a red heatsink, labeled "QUICRUN 16 BL 30". Wires extend from the ESC: thick red and black wires with a yellow Tamiya-style connector for battery input, and three thinner black wires with yellow, blue, and orange heat shrink for motor connection. A separate red, white, and black wire leads to a small clear plastic switch, and another set of red, white, and black wires terminates in a standard receiver plug.

Connection Steps

1. **Battery Connection:** Connect the battery connector (typically a Tamiya-style connector, as shown in the diagram) from your battery pack to the corresponding connector on the ESC. Ensure correct polarity (red to red, black to black).
2. **Motor Connection:** Connect the three motor wires from the ESC to your brushless motor. The order of connection may affect motor rotation direction. If the motor rotates in the wrong direction, swap any two of the three motor wires.
3. **Receiver Connection:** Plug the small three-wire connector (red, white, black) from the ESC into the throttle channel (usually Channel 2) of your RC receiver.
4. **Power Switch:** Mount the power switch in an accessible location on your vehicle.

Operating Instructions

ESC Calibration

Before first use or after changing your radio system, the ESC throttle range must be calibrated.

1. Turn on your transmitter and ensure the throttle trim is at neutral.
2. Connect the battery to the ESC.
3. Press and hold the SET button on the ESC while turning on the ESC power switch. Release the SET button when the LED starts flashing.
4. Set the throttle stick to the full throttle position and press the SET button.
5. Set the throttle stick to the full brake/reverse position and press the SET button.
6. Set the throttle stick to the neutral position and press the SET button.
7. The ESC is now calibrated and ready for use.

Powering On/Off

- **To Power On:** Ensure all connections are secure. Turn on your transmitter first, then turn on the ESC power switch.
- **To Power Off:** Turn off the ESC power switch first, then turn off your transmitter.

Programming the ESC

The Quicrun-WP-16BL30 ESC can be programmed using a HobbyWing LED Program Card (sold separately). This allows adjustment of parameters such as running mode, drag brake force, low voltage cut-off, start mode, and maximum brake force. Refer to the program card's manual for detailed instructions.

Maintenance

- **Cleaning:** Regularly clean the ESC to remove dirt, dust, and debris. Use a soft brush or compressed air. While waterproof, avoid submerging the ESC unnecessarily.
- **Inspection:** Periodically check all wires and connectors for signs of wear, damage, or corrosion. Ensure heat shrink tubing is intact.
- **Storage:** Store the ESC in a dry, cool place away from direct sunlight and extreme temperatures. Disconnect from the battery during storage.

Troubleshooting

Problem	Possible Cause	Solution
Motor does not run	No power to ESC/receiver	Check battery connection, ESC power switch, and receiver connection.
Motor runs in wrong direction	Incorrect motor wire connection	Swap any two of the three motor wires.
ESC beeps continuously	Low voltage cut-off activated or throttle not calibrated	Recharge battery, recalibrate throttle range.

Problem	Possible Cause	Solution
ESC overheats	Overgearing, motor too large, or insufficient airflow	Reduce gearing, use a smaller motor, ensure proper ventilation.
No throttle response	Throttle not calibrated, receiver not connected, or transmitter issue	Recalibrate throttle, check receiver connection, verify transmitter is on and bound.

Specifications

- **Model:** Quicrun-WP-16BL30
- **Part Number:** HWI30110000
- **Continuous/Peak Current:** 30A/180A
- **Input:** 2-3S LiPo / 6-9 Cells NiMH
- **BEC Output:** Linear Mode: 6V/1A
- **Applicable Vehicles:** 1/16th, 1/18th Touring Cars, Buggies, Trucks, Monster Trucks
- **Motor KV Rating/T Count (2S LiPo):** 1/10th Touring Cars KV≤8000, 1/10th Buggies KV≤5000
- **Motor KV Rating/T Count (3S LiPo):** 1/10th Touring Cars KV≤5500, 1/10th Buggies KV≤3500 (2435 motors)
- **Product Dimensions:** 5.31 x 2.19 x 3.5 inches
- **Item Weight:** 4.3 ounces
- **Waterproof:** Yes

Warranty and Support

For warranty information and technical support, please contact Hobbywing directly or refer to their official website. Keep your purchase receipt as proof of purchase.

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