Hobbywing HW30120201

Hobbywing Quicrun 1060 v2 Speed Controller User Manual

Model: HW30120201

1. Introduction

This manual provides essential information for the proper use, setup, and maintenance of your Hobbywing Quicrun 1060 v2 Speed Controller. Designed for remote control models, this Electronic Speed Controller (ESC) offers reliable performance for both beginners and advanced users. Its robust design ensures suitability for various weather conditions, making it a versatile component for your RC vehicles.

2. Safety Instructions

Always adhere to the following safety guidelines to prevent injury or damage to the product and surrounding property:

- **Read the entire manual:** Familiarize yourself with all features and operational procedures before use.
- **Proper Voltage:** Ensure the input voltage from your battery matches the ESC's specifications (2-3S LiPo or 5-9 Cell NiMH). Incorrect voltage can cause severe damage.
- **Polarity:** Always connect batteries with correct polarity. Reverse polarity will damage the ESC.
- **Insulation:** Insulate all exposed wires and connectors to prevent short circuits.
- **Heat Management:** The ESC can generate heat during operation. Ensure adequate ventilation and avoid touching the heatsink immediately after use.
- **Waterproof Design:** While the ESC is designed to be waterproof and dustproof, avoid prolonged submersion or exposure to corrosive liquids. Always dry the unit thoroughly after wet use.
- **Children:** This product is recommended for users aged 14 and above. Adult supervision is advised for younger users.
- **Signal Loss Protection:** The ESC features protection that will shut off the motor if the signal is lost. Ensure your radio system is functioning correctly.

3. Product Overview

The Hobbywing Quicrun 1060 v2 Speed Controller is a brushed ESC designed for 1/18 and 1/16 scale RC vehicles. It features a compact design with integrated heat dissipation fins and various connection points for power, motor, and receiver.



Figure 3.1: Front view of the Hobbywing Quicrun 1060 v2 Speed Controller. Note the prominent red heatsink fins, the "QUICRUN 1060 BRUSHED" label, and the various colored wires (red, yellow, blue) indicating connections for power and motor. A black connector for the receiver is also visible.

Key Features:

- Designed for 1/18 and 1/16 scale vehicles (touring cars, buggies, trucks, monster trucks).
- Waterproof and dustproof design for all-weather use.
- High reliability and durability with advanced software.
- Multiple protection functions: Low voltage cut-off, overheating protection, signal loss protection.
- Automatic throttle calibration for ease of use, especially for beginners.
- Built-in SBEC 6V@3A.

4. Setup and Installation

Follow these steps for proper installation and initial setup of your ESC:

1. **Mounting the ESC:** Securely mount the ESC in your vehicle using double-sided tape or screws, ensuring good airflow around the heatsink.

2. **Motor Connection:** Connect the ESC's motor wires to your brushed motor. Ensure correct polarity if your motor has specific positive/negative terminals.
3. **Receiver Connection:** Plug the ESC's throttle cable (usually black with a white or orange wire) into the throttle channel (CH2) of your receiver.
4. **Battery Connection:** Connect your battery pack to the ESC's power input wires. Ensure correct polarity (red to positive, black to negative).
5. **Automatic Throttle Calibration:**
    - Turn on your transmitter and ensure the throttle trim is at neutral.
    - Turn on the ESC. The ESC will automatically detect the throttle range.
    - Wait for the ESC to emit a series of beeps indicating successful calibration. Refer to the LED indicator for status.
6. **Test Functionality:** After calibration, gently test the throttle response. The motor should respond smoothly to throttle inputs.

5. Operating Instructions

Once installed and calibrated, operating the Quicrun 1060 v2 ESC is straightforward:

- **Power On:** Always turn on your transmitter first, then connect the battery to the ESC.
- **Driving:** Use your transmitter's throttle stick to control the speed and direction of your vehicle.
- **Power Off:** Disconnect the battery from the ESC first, then turn off your transmitter. This sequence prevents accidental throttle inputs.
- **Overload Protection:** The ESC is designed to prevent damage from high loads. If the motor stops or behaves erratically, check for obstructions or excessive load.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your ESC:

- **Cleaning:** After use, especially in dusty or muddy conditions, clean the ESC with a soft brush or compressed air. For wet conditions, ensure it is completely dry before storage.
- **Inspections:** Periodically inspect all wires and connectors for signs of wear, fraying, or corrosion. Replace damaged components immediately.
- **Storage:** Store the ESC in a cool, dry place away from direct sunlight and extreme temperatures.
- **Firmware:** While this model typically does not require user-updatable firmware, always check the Hobbywing website for any relevant updates or notices.

7. Troubleshooting

If you encounter issues with your ESC, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
ESC does not power on.	Battery not connected, battery discharged, incorrect polarity, damaged power wires.	Check battery connection and charge. Verify polarity. Inspect and repair/replace wires.

Problem	Possible Cause	Solution
Motor does not respond or stutters.	Incorrect throttle calibration, signal loss, motor wires loose, motor damaged.	Perform throttle calibration. Check receiver connection. Secure motor wires. Inspect motor.
ESC overheats.	Excessive load, poor ventilation, incorrect gearing, motor issues.	Reduce load. Ensure adequate airflow. Check gearing. Inspect motor for binding.
Vehicle runs slowly or cuts out.	Low voltage cut-off activated, battery discharged, motor drawing too much current.	Recharge battery. Check battery health. Ensure motor is appropriate for ESC.

8. Product Specifications

Feature	Detail
Model	HW30120201 (Quicrun 1060 v2 Speed Controller)
Brand	Hobbywing
Continuous Current	60 A
Input Voltage	2-3S LiPo / 5-9 Cell NiMH
Built-in BEC	6V@3A (Switch Mode)
Dimensions (L x W x H)	37 x 32 x 18 mm (1.46 x 1.26 x 0.71 inches)
Product Weight	0.039 kg (1.38 ounces)
Recommended Age	14 years and up
Application	1/18 & 1/16 scale Touring Cars, Buggies, Trucks, Monster Trucks

9. Warranty and Support

For warranty information and technical support, please refer to the official Hobbywing website or contact your local distributor. Keep your proof of purchase for any warranty claims.

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