Hobbywing HWI30120201

HobbyWing Quicrun 1060 Brushed ESC Instruction Manual

Model: HWI30120201

1. Product Overview

The HobbyWing Quicrun 1060 Brushed Electronic Speed Controller (ESC) is engineered for 1/10 and 1/12 scale remote-controlled cars and trucks. This waterproof unit offers reliable performance and is designed for ease of use, featuring a Tamiya battery plug for broad compatibility. It supports various running modes and battery types, making it a versatile choice for brushed motor setups.

Figure 1: HobbyWing Quicrun 1060 Brushed ESC

2. What's in the Box

- Hobbywing speed control with Tamiya battery plug

3. Key Features

- 60 Amp Power: Provides robust power delivery for brushed motors.
- Waterproof Electronics: Ensures reliable operation in various environmental conditions.
- Multiple Running Modes: Supports Forward/Reverse/Brake, Forward/Brake, and Forward/Reverse modes.
- LiPo Cutoff Capability: Compatible with LiPo batteries up to 3S, with built-in low voltage cutoff protection.
- Integrated Tamiya Battery Plug: Simplifies connection to common RC battery packs.

Figure 2: Tamiya Logo, indicating compatible battery plug type.

4. Setup and Installation

4.1 Wiring Connections

1. **Motor Connection:** Connect the ESC's motor wires (blue and yellow) to your brushed motor. The order may affect motor rotation; reverse if necessary.
2. **Battery Connection:** Plug your battery pack into the ESC's Tamiya connector. Ensure correct polarity.
3. **Receiver Connection:** Plug the ESC's signal cable (usually black, red, white/yellow) into the throttle

channel (typically Channel 2) of your RC receiver.

4. **Power Switch:** Mount the power switch in an accessible location on your vehicle.

4.2 Jumper Cap Settings

The Quicrun 1060 ESC uses jumper caps to configure various settings, including running mode, battery type, and BEC output voltage. Refer to the detailed chart in your physical user manual for specific configurations. Incorrect settings can damage the ESC or battery.

Key Jumper Settings:

- **Running Mode:** Select between Forward/Reverse/Brake, Forward/Brake, or Forward/Reverse.
- **Battery Type:** Choose between NiMH or LiPo to ensure proper low voltage cutoff.
- **BEC Output Voltage:** Adjust the voltage supplied to your receiver and servos (e.g., 6.0V or 7.4V).

4.3 Throttle Calibration

To ensure proper operation, the ESC must be calibrated to your transmitter's throttle range. Follow these general steps:

1. Turn on your transmitter and ensure all throttle trims are at neutral.
2. Connect the battery to the ESC.
3. Hold the throttle stick at full throttle (highest position) and turn on the ESC.
4. The motor will emit a series of beeps. Once you hear the first beep, move the throttle stick to full brake (lowest position).
5. After another series of beeps, move the throttle stick to the neutral position.
6. The ESC will emit a final series of beeps, indicating successful calibration.

5. Operating Modes

The Quicrun 1060 ESC offers three primary operating modes, configurable via jumper caps:

- **Forward/Reverse/Brake Mode:** Standard mode for general driving, allowing forward, reverse, and braking.
- **Forward/Brake Mode:** Ideal for racing, providing only forward movement and braking, with no reverse.
- **Forward/Reverse Mode:** Suitable for rock crawling or specific applications where immediate reverse is needed without a brake delay.

Consult your user manual's jumper cap chart for detailed instructions on how to select each mode.

6. Maintenance

- **Cleaning:** Regularly clean the ESC to remove dirt, dust, and debris. Use a soft brush or compressed air.
- **Inspection:** Periodically check all wires and connectors for signs of wear, damage, or loose connections.
- **Storage:** Store the ESC in a dry, cool environment away from direct sunlight and extreme temperatures.

7. Troubleshooting

- **No Power:** Check battery connection, power switch, and ensure the battery is charged.
- **Motor Not Responding:** Verify receiver connection, throttle calibration, and motor wiring.
- **Erratic Operation:** Re-calibrate the throttle range. Check for interference or loose connections.

- **Overheating:** Ensure proper ventilation around the ESC. Check motor load and gearing.

For more detailed troubleshooting, refer to the comprehensive troubleshooting guide in your user manual or contact HobbyWing support.

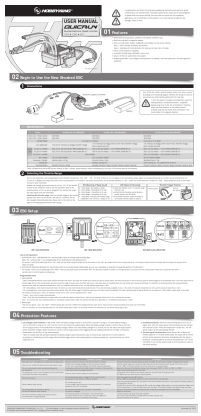
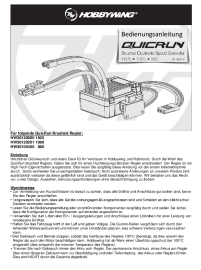
8. Specifications

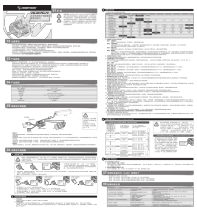
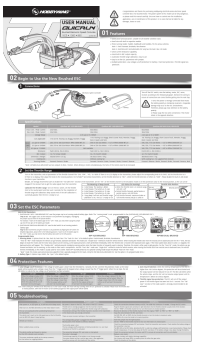
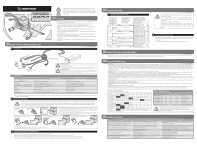
Specification	Detail
Product Dimensions	5.25 x 3.5 x 2.13 inches
Item Weight	0.8 ounces
Item Model Number	HWI30120201
Manufacturer	Hobbywing Technology
Recommended Age	16 years and up

9. Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the documentation included with your product or visit the official HobbyWing website. Keep your proof of purchase for any warranty claims.

Related Documents - HWI30120201

	Hobbywing QUICRUN Brushed ESC User Manual: QUICRUN-WP-1625, 1060, 860 Series This user manual provides comprehensive guidance for Hobbywing's QUICRUN series brushed electronic speed controllers (ESCs), including models QUICRUN-WP-1625, QUICRUN-WP-1060, and QUICRUN-WP-860. It covers essential information on features, connections, ESC setup, protection mechanisms, and troubleshooting for RC vehicles.
	Hobbywing QuicRun Brushed ESC User Manual Comprehensive user manual for Hobbywing QuicRun brushed electronic speed controllers (ESCs), covering models 1625, 1060, and 860. Includes setup, wiring, features, technical specifications, and troubleshooting.

	HOBBYWING QUICRUN WP 1080 G2 Brushed ESC User Manual Comprehensive user manual for the HOBBYWING QUICRUN WP 1080 G2 Brushed Electronic Speed Controller (ESC), covering features, specifications, setup, wiring, and troubleshooting.
	Hobbywing QUICRUN Brushed ESC User Manual Comprehensive user manual for Hobbywing QUICRUN series brushed electronic speed controllers (ESC), including models WP-1625, WP-1060, and WP-860-DUAL. Learn about features, connections, setup, and troubleshooting.
	Hobbywing QUICRUN 10BL60/10BL120 Sensored ESC User Manual Comprehensive user manual for Hobbywing's QUICRUN 10BL60 and 10BL120 Sensored Brushless Electronic Speed Controllers (ESCs). Learn about features, connections, programming, throttle range calibration, and troubleshooting for your RC car.
	Hobbywing QUICRUN WP 1080 G2 Brushed ESC User Manual Comprehensive user manual for the Hobbywing QUICRUN WP 1080 G2 Brushed Electronic Speed Controller, detailing features, setup, programming, and troubleshooting for RC rock crawlers.