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› [HOBBYWING](#) /

› [HOBBYWING 10BL80 Crawler & Outer 3530 SL Combo \(1700KV Outer Motor\) Instruction Manual](#)

## HOBBYWING 10BL80 Crawler & Outer 3530 SL Combo

# HOBBYWING 10BL80 Crawler & Outer 3530 SL Combo Instruction Manual

MODEL: QUICRUN WP 10BL80 COMBO

### Introduction

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This manual provides essential instructions for the proper setup, operation, and maintenance of your HOBBYWING 10BL80 Crawler & Outer 3530 SL Combo. This high-performance electronic speed controller (ESC) and motor combination is designed for 1/10th scale crawling applications, offering robust and reliable power delivery.

#### Important Safety Warnings:

- Always ensure power devices and the car frame manual are checked for reasonable power pairing to prevent overload and motor damage.
- Wire all equipment parts carefully. Loose connections due to vibration can lead to loss of control of your RC model.
- Never apply full throttle without the pinion installed. Extremely high RPMs without load can damage the motor.
- Prevent the motor case from exceeding 100 degrees Celsius (212 degrees Fahrenheit) to avoid demagnetization of the magnets by high temperatures.

### What's in the Box

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Your HOBBYWING 10BL80 Crawler & Outer 3530 SL Combo package includes the following components:

- 1x WP 10BL80 Crawler ESC
- 1x QR3530 SL Outer Motor (Your KV choice)

### Product Features

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The HOBBYWING 10BL80 Crawler & Outer 3530 SL Combo offers a range of advanced features:

- Supports both Sensorless Brushless motors and Brushed Motors.
- Compatible with most brushed or brushless motors available on the market.
- Features a fully waterproof design, ensuring reliable operation in various conditions.
- Equipped with a Super internal switch-mode BEC, offering switchable voltage options of 6V, 7.4V, or 8.4V for use with high torque and high voltage servos.
- Includes a separate programming port for easy connection to an LED program box or LCD program box pro for ESC configuration.
- Incorporates multiple protection mechanisms: motor lock-up protection, low-voltage cutoff protection, thermal protection, and fail-safe (throttle signal loss protection).
- Allows for real-time adjustment of drag brake force using the transmitter's AUX channel.

## Setup

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Follow these steps for initial setup of your HOBBYWING 10BL80 Crawler & Outer 3530 SL Combo:

1. **Mounting the ESC and Motor:** Securely mount the ESC and motor in your RC vehicle chassis. Ensure adequate ventilation for the ESC.
2. **Wiring Connections:** Connect the motor to the ESC using the appropriate phase wires (A, B, C). Connect the ESC to your receiver's throttle channel. Ensure battery connections are secure and polarity is correct.
3. **BEC Voltage Selection:** If your servos require a specific voltage, adjust the BEC output (6V/7.4V/8.4V) on the ESC as needed. Refer to your servo's specifications.
4. **Transmitter Calibration:** Calibrate the ESC with your radio transmitter according to the detailed instructions provided in the full HOBBYWING manual (not included here). This typically involves setting throttle endpoints.



An image showing the HOBBYWING 10BL80 Electronic Speed Controller (ESC) with its red heatsink and connected wires, alongside its separate power switch module. The ESC is labeled 'QUICRUN WP 10BL80 CRAWLER'.

## Operating Instructions

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Once the setup is complete, you can begin operating your RC vehicle:

1. **Power On:** Connect the battery to the ESC. Turn on your radio transmitter, then turn on the ESC using its power switch.
2. **Initial Test:** Perform a low-speed test to ensure all controls (throttle, steering) respond correctly.
3. **Drag Brake Adjustment:** Utilize your transmitter's AUX channel to adjust the drag brake force in real-time, optimizing it for your crawling needs.
4. **Programming:** For advanced settings, connect an LED or LCD program box to the dedicated programming port on the ESC. Refer to the program box manual for specific instructions on adjusting parameters like motor type, cutoff voltage, and timing.

*Note: No official product videos from the seller are available for embedding in this manual.*

## Maintenance

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Regular maintenance ensures the longevity and optimal performance of your HOBBYWING 10BL80 Combo:

- **Cleaning:** After each use, especially in dusty or wet conditions, clean the ESC and motor to remove dirt and debris. Use a soft brush or compressed air.
- **Inspection:** Periodically inspect all wires and connectors for signs of wear, damage, or loose connections. Replace any damaged components immediately.
- **Temperature Monitoring:** During operation, monitor the motor and ESC temperatures. If temperatures consistently exceed 100°C (212°F), reduce load or improve cooling to prevent damage.
- **Storage:** When not in use, store the ESC and motor in a dry, cool place away from direct sunlight and extreme temperatures.

## Troubleshooting

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This section addresses common issues you might encounter:

Problem	Possible Cause	Solution
Motor not responding	Loose connections, low battery, ESC not calibrated, throttle signal loss.	Check all wiring, charge battery, recalibrate ESC, ensure transmitter is on and paired.
ESC overheating	Excessive load, insufficient cooling, incorrect gearing.	Reduce load, improve airflow, check gearing ratio, ensure motor is not locked up.
Motor stutters or runs rough	Incorrect motor type setting, damaged motor wires, sensor issues (if applicable).	Verify motor type in ESC programming, inspect motor wires, check sensor cable.
Low-voltage cutoff activates too soon	Incorrect battery type setting, damaged battery.	Adjust low-voltage cutoff setting in ESC programming, test battery condition.

The ESC features multiple built-in protections, including motor lock-up protection, low-voltage cutoff protection, thermal protection, and fail-safe (throttle signal loss protection). If an issue persists, consult the full HOBBYWING product manual or contact customer support.

## Specifications

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Key specifications for the HOBBYWING 10BL80 Crawler & Outer 3530 SL Combo:

- **Brand:** HOBBYWING
- **Model Name:** QUICRUN WP 10BL80 COMBO
- **Material:** Brushless ESC and Motor
- **Manufacturer:** Hobbywing Technology
- **UPC:** 088718520386
- **Product Dimensions:** 5.8 x 4.3 x 2 inches
- **Item Weight:** 10.2 ounces
- **Recommended Age:** 4 years and up

## Warranty and Support

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For warranty information, technical support, or service inquiries regarding your HOBBYWING 10BL80 Crawler & Outer 3530 SL Combo, please refer to the official HOBBYWING website or contact their customer service directly. Keep your proof of purchase for warranty claims.