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> [HOBBYWING Quicrun 10BL120 G2 & 3660SL G2 Combo Instruction Manual](#)

## HOBBYWING QR10BL120 + 3660-3150KV SL G2 Combo

# HOBBYWING Quicrun 10BL120 G2 & 3660SL G2 Combo Instruction Manual

*Model: QR10BL120 + 3660-3150KV SL G2 Combo*

*Brand: HOBBYWING*

## INTRODUCTION

This manual provides detailed instructions for the HOBBYWING Quicrun 10BL120 G2 Electronic Speed Controller (ESC) and 3660SL G2 Brushless Motor Combo. This high-performance system is designed for remote-controlled vehicles, offering excellent waterproof and dustproof capabilities for various environments.

## Key Features:

- COMBO: QR10BL120 G2 ESC & 3660SL G2 Motor
- Intelligent freewheeling technology for higher driving efficiency and lower operating temperature.
- Powerful built-in BEC with continuous current up to 5A, instant up to 10A, and support for 6V/7.4V adjustable output.
- Efficient cooling system with integrated radiator design and patented copper thermal conduction sink.
- Capacitor Thermal Protection to prevent damage from overloading.
- High protection level (IP-67 waterproof) for all-weather operation in mud, sand, ice, snow, and water.

## WHAT'S INCLUDED

- (1) Quicrun 10BL120 G2 ESC
- (1) 3660SL G2 Motor (3150KV)

## TECHNICAL SPECIFICATIONS

### General Specifications

Feature	Detail
Brand	HOBBYWING

Feature	Detail
Model Name	Quicrun 10BL120 G2 & 3660SL G2 COMBO
Item Type Name	Brushless ESC and Motor Combo
Material	ESC: Plastic Housing   Aluminum Housing   PCB; Motor: Steel and Aluminum
Item Weight	1.15 Pounds
UPC	088718520188
ASIN	B0C6BSRZR2

## Motor Options Overview:

The Quicrun series offers various motor options. The 3652SL motors are 540-sized (36mm diameter, 52mm length) with a 1/8-inch shaft. The 3660SL motors are longer 540-sized (36mm diameter, 60mm length) with a 5mm shaft. Different KV ratings are available to suit various applications.

## Motor Specifications Overview

Model	KV	LiPos	Shaft Diameter/Length (mm)	Applications
QUICRUN 3652SL 3250KV G2	3250KV	2-3S	Φ=3.175mm (0.13") L=15mm (0.59")	1/10 On-road, Buggy
QUICRUN 3652SL 4000KV G2	4000KV	2-3S	Φ=3.175mm (0.13") L=15mm (0.59")	1/10 On-road, Buggy
QUICRUN 3652SL 5400KV G2	5400KV	2S	Φ=3.175mm (0.13") L=15mm (0.59")	1/10 On-road, Buggy (Light load)
QUICRUN 3660SL 3150KV G2	3150KV	2-3S	Φ=5mm (0.20") L=18.5mm (0.73")	1/10 Truck, Monster truck
QUICRUN 3660SL 3700KV G2	3700KV	2-3S	Φ=5mm (0.20") L=18.5mm (0.73")	1/10 Truck, Monster truck

## SETUP & INSTALLATION

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### Connecting the ESC and Motor

The HOBBYWING Quicrun 10BL120 G2 ESC and 3660SL G2 Motor are designed for easy connection. The ESC features 4mm bullet plugs for motor connections and an XT60 connector for the battery. Ensure correct polarity when connecting the battery.

The motor wires are typically marked A, B, C. Connect them to the corresponding A, B, C terminals on the ESC. If the motor spins in the wrong direction after calibration, you can swap any two of the motor wires to reverse the direction.



*Image: HOBBYWING Quicrun 10BL120 G2 ESC and 3660SL G2 Motor Combo installed in an RC vehicle, showing wiring and components.*

## ESC CALIBRATION WITH RADIO

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Before operating or programming, the ESC must be calibrated to your radio transmitter. This ensures the ESC correctly recognizes neutral, full throttle, and full reverse positions.

1. Connect the ESC's throttle lead to Channel 2 on your receiver. Ensure the black wire of the ESC harness is connected to the thin edge (ground) of the receiver port.
2. Hold down the SET button on the ESC's power switch.
3. While holding the SET button, turn on the ESC. The ESC will start to beep and blink.
4. When the ESC beeps once (red light blinks once), release the SET button. This indicates neutral position.
5. Push the throttle trigger to the full forward position and hold it. Tap the SET button again. The ESC will beep twice (green light blinks twice). This sets the full throttle position.
6. Push the throttle trigger to the full reverse position and hold it. Tap the SET button again. The ESC will beep three times (green light blinks three times). This sets the full reverse position.
7. The ESC will then beep once, twice, and three times in sequence, confirming successful calibration.

Your browser does not support the video tag.

*Video: A detailed guide on unboxing, setting up, and calibrating the HOBBYWING Quicrun 10BL120 G2 ESC and Motor Combo. This video demonstrates the physical connections, programming card usage, and the step-by-step radio calibration process.*

## PROGRAMMING THE ESC WITH THE LED PROGRAM CARD

The HOBBYWING Quicrun 10BL120 G2 ESC requires the LED Program Card for tuning. It is not compatible with LCD Program Boxes or OTA Programmers.

1. Connect the LED Program Card to the dedicated programming port on the front of the ESC. Ensure the plug is oriented correctly (marked with positive, negative, and signal symbols).
2. Connect a battery to the ESC.
3. Turn on the ESC. The LED Program Card will power on and display the current settings.
4. Use the "ITEM" button to cycle through the programmable items (e.g., Running Mode, Cutoff Voltage, Punch, etc.).
5. Use the "VALUE" button to change the option for the selected item.
6. Press the "OK" button to save the changes. The ESC will confirm with a beep.
7. Once programming is complete, turn off the ESC and disconnect the Program Card.

### Programmable Items Overview:

#### Default Values of Programmable Items

Item	Option 1	Option 2	Option 3	Option 4	Option 5	Option 6	Option 7	Option 8	Option 9
Running Mode	Forward with brake	Forward/Reverse with Brake	Forward with reverse						
Cutoff Voltage	Disabled	2.6V/Cell	2.8V/Cell	3.0V/Cell	3.2V/Cell	3.4V/Cell			
Punch	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9
Drag Brake Force	0%	5%	10%	20%	40%	60%	80%	100%	
Max. Brake Force	25%	50%	75%	100%	Disabled				
Max. Reverse Force	25%	50%	75%	100%					
Neutral Range	6%	9%	12%						
Timing	0°	3.75°	7.5°	11.25°	15°	18.75°	22.5°	26.25°	

Item	Option 1	Option 2	Option 3	Option 4	Option 5	Option 6	Option 7	Option 8	Option 9
Lipo Cells	Auto	2S	3S	4S					
BEC Voltage	6.0V	7.4V							

## OPERATING TIPS

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- **Running Mode:** Choose between "Forward with brake" (for racing), "Forward/Reverse with Brake" (training mode, requires neutral before reverse), or "Forward with reverse" (instant reverse, generally for special vehicles).
- **Cutoff Voltage:** Set the low voltage cutoff for your battery type (LiPo cells or Disabled for NiMH). Default settings are usually safe.
- **Punch:** Adjusts the linearity of the throttle. A higher level (e.g., Level 9) provides a more direct 1:1 throttle response, while lower levels introduce a slight delay, which can be useful for smoother acceleration or managing power.
- **Drag Brake Force:** Controls the automatic braking applied when the throttle returns to neutral. Useful for high-traction conditions or preventing the vehicle from rolling.
- **Max. Brake Force:** Sets the maximum braking power. Adjust this to prevent tires from locking up and spinning out, especially in varying traction conditions.
- **Max. Reverse Force:** Adjusts the maximum speed/power in reverse. Lowering this can help with smoother operation, especially if full reverse power is too aggressive.
- **Neutral Range:** Defines the dead band around the neutral throttle position. Increase this if your radio's neutral signal is inconsistent.
- **Timing:** Electronic timing advance for the motor. Increasing timing can make the motor faster but also increases temperature. Use with caution and monitor motor temperature.
- **Lipo Cells:** Set this to match your LiPo battery configuration (2S, 3S, 4S) or "Auto" for automatic detection.
- **BEC Voltage:** Adjusts the power supplied to the receiver and servos (6.0V or 7.4V). Choose 7.4V if using high-voltage servos.

## MAINTENANCE

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- Regularly inspect all wires and connectors for damage or loose connections.
- Keep the ESC and motor clean from dirt, dust, and moisture. Although waterproof, proper cleaning extends lifespan.
- Ensure the cooling fan on the ESC is free from obstructions. The fan operates based on temperature, so it may not run constantly.
- Store the combo in a dry, cool place when not in use.

## TROUBLESHOOTING

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- **Motor not starting or erratic behavior:** Check all connections, ensure the battery is charged, and verify the ESC is properly calibrated to the radio.
- **Incorrect motor direction:** If the motor spins in the wrong direction after calibration, swap any two of

the three motor wires connected to the ESC.

- **ESC overheating:** Reduce the timing setting, check gearing for excessive load, or ensure adequate airflow to the ESC.
- **Calibration issues:** If the ESC does not calibrate correctly (e.g., gets stuck at a step), ensure your radio's throttle trim is at neutral and re-attempt the calibration process.

## WARRANTY & SUPPORT

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For warranty information, technical support, or service inquiries, please contact HOBBYWING North America directly or visit their official website. Keep your purchase receipt as proof of purchase.