



1/18 Brushless Electronic Speed Controller User Manual

DECLARATION

This Electronic Speed Controller (ESC) is designed for use in RC Cars. High power systems for RC Cars can be very dangerous, so please read this manual carefully. Since we can not control the correct use, installation, application or maintenance of this product, no liability shall be assumed and we can not be held liable for any damages, losses, or costs resulting from the use or misuse of this product. Any claims arising from the operation, failure, or malfunction of this product will be denied. We assume no liability for personal injury or damages resulting from our products or workmanship.

FEATURES

1. Waterproof and dust proof for all-weather conditions. (Note: please uninstall any cooling fans before using the ESC in water. Clean and dry the ESC and connections soon after use to avoid rust.)
2. The start-up, acceleration, and linear throttle response have been specifically designed for your RC Car.
3. Compatible with sensorless brushless motors.
4. 35A capable with excellent heat dissipation.
5. Multiple protection features: Low Voltage Cut-Off Protection for Lithium or Nickel batteries / Over-Heat Protection / Signal loss protection / Motor over-load protection.
6. ESC program card is available separately if custom programming is desired.

CONNECTIONS



SPECIFICATIONS

Continuous Current / Burst Current	35A / 120A
Motor KV Capability on 2S LiPo / 6 cells NiMH	6000KV or Less
Motor KV Capability on 3S LiPo / 9 cells NiMH	4600KV or Less
Suitable Vehicle Scale	1/18, 1/16, 1/14
Resistance	0.0007ohm
Battery Type	2S to 3S LiPo / 4-9 Cells NiMH
BEC Output	5.0V / 2A (Analog Mode)
Dimensions / Weight	40 x 32 x 20mm / 37g

Instructions

1. Connect BEC wires with the receiver
2. Connect motor wires with ESC
3. Turn on the transmitter
4. Connect battery pack with ESC then switch on the ESC
5. The motor will emit a "Beep-Beep" tone at start-up
6. Leave the throttle in the neutral position / Once calibrated the motor will re-emit a "Beep-Beep" tone
7. The ESC is ready for use

Troubleshooting

1. If no sound is emitted or motor does not work after power on, check the battery/motor connections.
2. If LED flashes on ESC after power on, check the battery for correct voltage (5V to 13V).
3. If the motor only emits the initial "Beep-Beep" and not the second calibration "Beep-Beep", check all the connections - BEC wires, transmitter and receiver, throttle signal wires, etc. If there are no issues with the wires, adjust the Throttle Trim (TH. TRIM) until motor emits "Beep-Beep" tone.
4. If the vehicle does not accelerate, the ESC may have entered Low-Voltage Cut-Off Protection or Over-Heat Protection. If voltage is too low, replace battery. If ESC is too hot, allow it to cool and change gearing.
5. If the car stops suddenly during use, check motor connections or obstructions to the drive line/motor.
6. If the motor turns in the opposite direction, swap two of the wires between the ESC and motor.

Program Card Functions (Available Separately)

