



USER MANUAL

RC CRAWLER BRUSHED SPEED CONTROLLER

DECLARATION

This Electronic Speed Controller(ESC) is designed for use with brushed motors in RC Crawlers only. This high power system for RC Crawler can be dangerous if used incorrectly, so please read this manual carefully. We can't control the correct use, installation, application or maintenance of this product. No liability shall be assumed nor accepted for any damages, losses or costs resulting from the incorrect use of this product. Any claims arising from operating, failure or malfunction etc will be denied. We assume no liability for personal injury, consequential damage resulting from incorrect use of this product.

FEATURES

1. Specially designed for RC Crawlers with brushed motors, excellent linear throttle response and driving feel.
2. Compatible with brushed motors only.
3. Low internal resistance, excellent heat dissipation.
4. Multiple protection features: Low voltage cut-off protection for Lithium or Nimh batteries/ over-heat protection/ throttle signal loss protection.
5. Easily programmed and compatible with our pocket sized program card.

ESC SPECIFICATIONS

1. Cont. Current/ Burst Current: 60A/320A	2. Resistance: 0.0014ohm	
3. Motor Type: Brushed motor compatible only	4. Battery: 2~3 cells Lipo, 4~9 cells NiMH	
5. Suitable Car Type: 1/10 Crawler Brushed	6. BEC: 7.4V/2A (switch mode)	7. Dimension: 32x37x18mm

INSTRUCTIONS

1. Connect the ESC Rx lead (3 small wires with black plug) to the receiver ensuring the correct polarity.
2. Connect the motor wires to the ESC (Electronic Speed Controller)
3. Switch on the transmitter first (always turn the transmitter on first and turn it off last when you have finished).
4. Connect the battery pack to the ESC ensuring the black connects to black and red to red, then switch on the ESC.
5. When the speed controller is switched on, the motor will emit a "Beep" "Beep" tone.
6. When the throttle stick is in the neutral position the motor will then emit a single "Beep" tone.
7. The ESC is now ready for use.

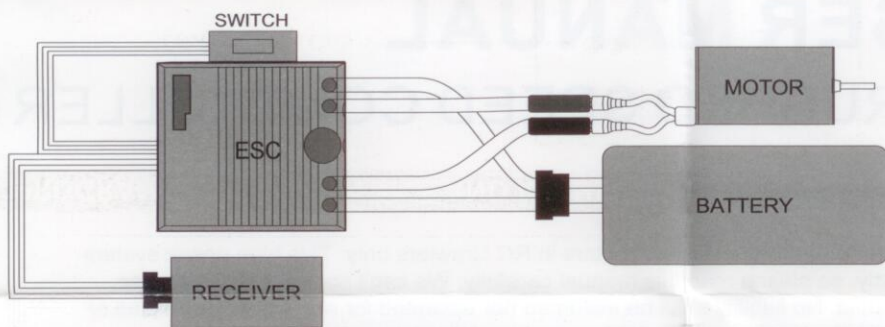
TROUBLESHOOTING

1. If after the power is turned on and no sound is emitted, please check the connections between battery pack, ESC and motor.
2. If the motor emits a "Beep" tone only then please check all the connections: BEC wires, transmitter and receiver, throttle signal wires, etc. Please check the transmitter TH. TRIM and adjust it until the motor emits a "Beep" tone.
3. If the car doesn't move, or moves slower than expected, please check the voltage of the battery pack or check to see if the temperature of the ESC is too high. If the voltage of the battery pack is too low, please replace the battery pack or charge it. If the temperature of ESC is too high, please check all connections. If not, please check the EPA settings on your remote control.
4. If the car stops suddenly while working, please check the motor's connections, also check that the transmission gears are not jammed with dirt or debris.
5. If the car runs in the wrong direction, please swap the 2 wires over between the ESC and the motor(do not swap the battery wires over).

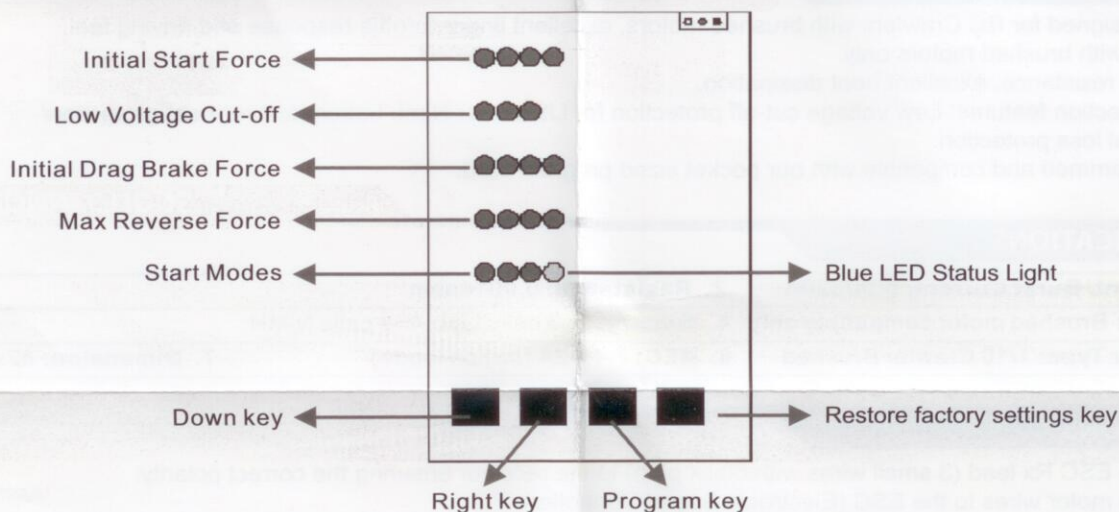
MOTOR SPECIFICATIONS

Product	Voltage (LIPO)	No-load current	No-load RPM	Peak- current	Torque	Rotation	Weight (g)	Shaft (mm)	Turns
540/5 Slot	7.4V	0.8-1.12A	11700±10%RPM	37-52A	≥2000g.cm	CCW	165	3.175	20
540/5 Slot	7.4V	1.06-1.50A	13700±10%RPM	53-75A	≥2300g.cm	CCW	165	3.175	16
540/5 Slot	7.4V	1.3-1.9A	16700±10%RPM	62-96A	≥2600g.cm	CCW	165	3.175	13
540/5 Slot	7.4V	1.85-2.65A	19800±10%RPM	88-125A	≥2800g.cm	CCW	165	3.175	11

WIRE CONNECTIONS



PROGRAMME CARD SETTINGS AND ADJUSTMENTS



- 1: Initial Start Force:** 5%, 13%, 21%, 29%(default value 5%) .
- 2: Low Voltage Cut-Off:** The function is mainly to prevent the lithium battery pack from over discharging. When using lithium battery pack, please set the value for the low-voltage protection as your like. **WARNING:** Never use the default value "Non-protection" for lithium battery! 3.1V、3.3V、2.9V(default value 3.1V) .
- 3: Initial Drag Brake Force:** 100%, 90%, 80%, 70%(default value 100%) .
- 4: Maximum Reverse Force:** 100%, 75%, 50%(default value 50%) .
- 5: 3 Start Modes** (Also called "Punch") from "soft" to "very aggressive" (default value Medium) .

Using the Program Card:

1. Connect the BEC wires to the program card then turn on the ESC
2. The Blue LED flashes twice then goes off, that is if the connection of the program card with the ESC is successful, also the Red LED should be on giving the current value of the settings. If no lights come on then the connection has failed.
3. Please press the Key " ↓ " to select different programs.
4. Please press the Key " → " to select the different values of the current program .
5. Please press the Key "Programming" to confirm above selections, the Blue LED should come on immediately then go out within 5seconds if the process is successful.
6. Please press the Key "Reset" to reset the factory setting.



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