



ROCKET RC TS80 Sensored Brushless ESC Instruction Manual

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TS80 Sensored Brushless ESC
INSTRUCTION MANUAL



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DECLARATION

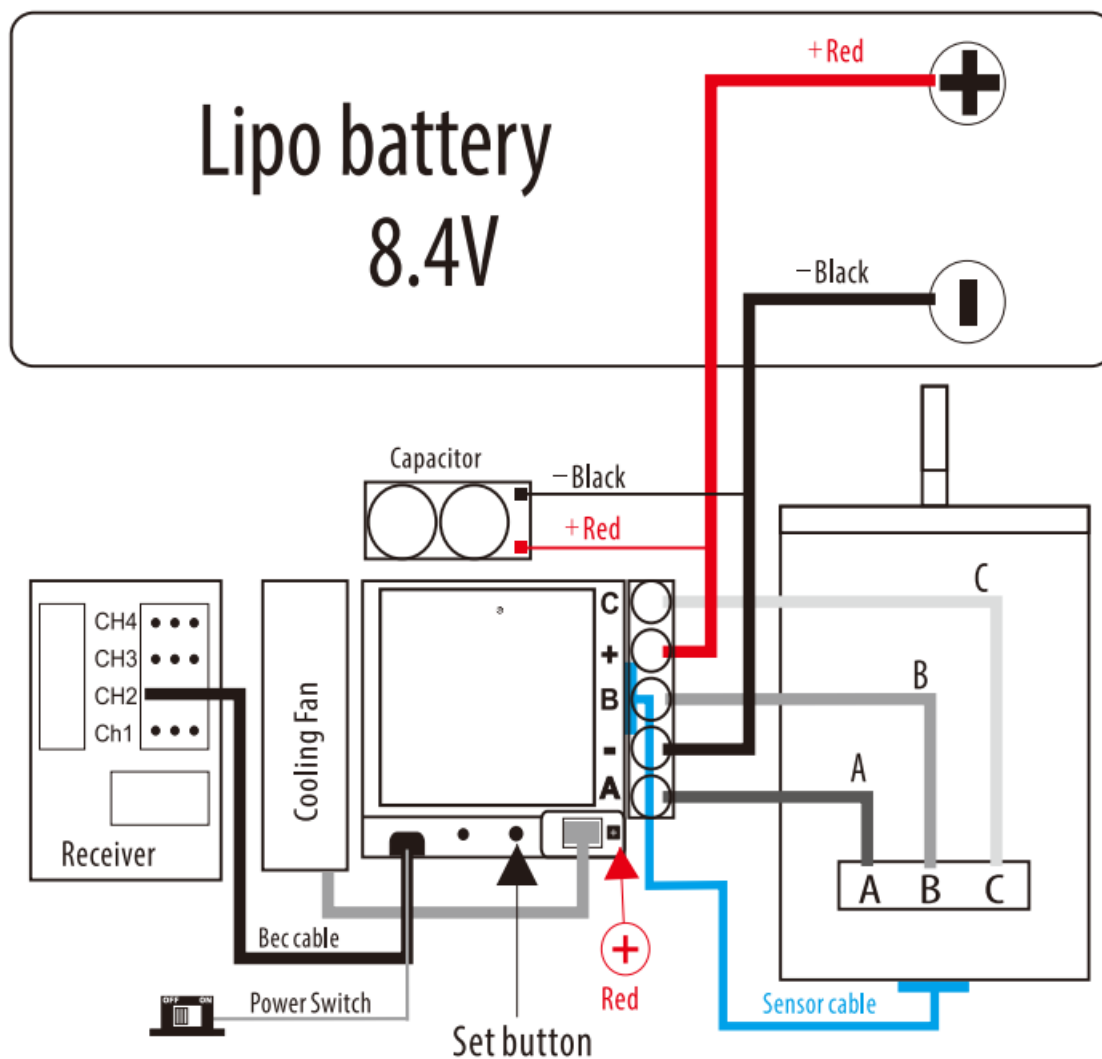
This is Electronic Speed Controller (ESC) for car. High power system for RC model is very dangerous, so please read this manual carefully. Since we can't control over the correct use, installation, application, or maintenance of our products, we've no liability shall be assumed nor accepted for any damages, losses or costs resulting from the use of the product. Any claims arising from the operating, failure of malfunctioning etc. will be denied. We assume no liability for personal injury, consequential damages resulting from our product or our workmanship.

SPECIFICATION

• 8 bit processor • Low resistance FET • Continuous current
Forward/Brake/Reverse: Yes (Factory preset at Forward/Brake)
Dimensions: 29.50(L) x 29.52(W) x 24(H)mm(including fan)
Weight: 61.4g(including wires)

Voltage Input: 6V-11V
Peak Current: 160A
Continuous current: 80A
Motor Limit: Over 13.5Turns(540)/10.5Turns(380/390)
Motor Type: Sensored 380/390/540 brushless motors
B.E.C.: 3A/6V
Multi Protection System: Yes

INSTALLATION & CONNECTORS



RADIO& ESC SETUP

Transmitter Settings:

- Throttle Travel Maximum / 100%
- Brake Travel Maximum / 100%
- Throttle Exponential Start with 0%
- Throttle Neutral Trim Center/ 0
- Throttle Servo Reverse (Futaba, KO, Sanwa)

The initial set-up of the throttle end-points of the ESC:

1. Connect the power wires of the ESC to a fully charged
2. Bind your receiver and transmitter first if your radio requires you to do so.
3. Use a 1.5mm screw press and hold the ESC set button and then switch on the ESC, release the button until the led change to blue and flash from red, you can listen to two beeps sound from motor at the same time.
4. Keep the throttle in the neutral position and then press the set button, the neutral position already memory on ESC when listen to a beep sound.
5. Full throttle and then press once the set button, the maximum throttle position already memory on ESC when listen for two beeps sounds.
6. Full brake and then press once the set button, the maximum brake position already memory on ESC when listen for three beeps sounds.
7. A beep will then sound, Signifying that the ESC endpoints have been successful.

CUSTOMIZING THE ESC

To begin, connect the battery wires to a charged battery, then connect the BEC wire 3pin wire to the program card "S+-"port (3pin port). Turn on the ESC and the Program Card will read the esc setup once time, activate automatically. You can now begin programming your ESC.

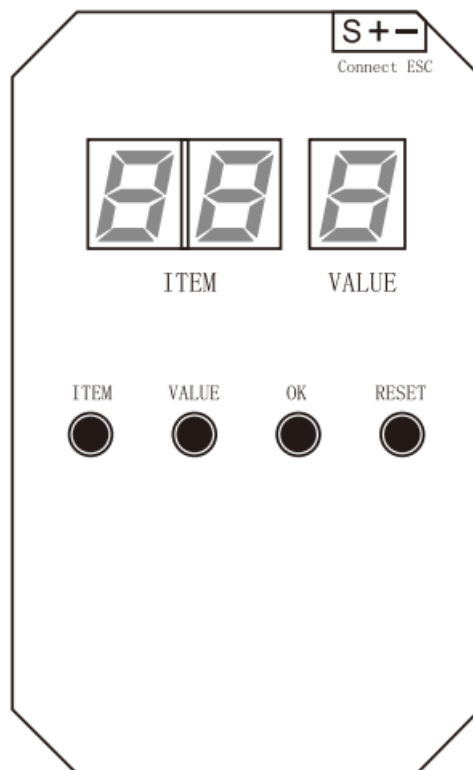
TIPS! Program card is done using the 4 buttons below on the led, The function of each button start from right hand side are ITEM, VALUE, OK and RESET.

"ITEM" button go to next item to select.

"VALUE" button go to next value select.

" OK" button go to confirm your select.

" RESET" button go back to factory setup.



Item/Value Item	1	2	3	4	5	6	7	8	9
1.Low Voltage Cut-off	3.1V Slow	2.9V Slow	2.7V Slow	Disable	3.4V Slow	3.1V Stop	2.9V Stop	2.7V Stop	3.4V Stop
2.Start Mode(Pundi)	Level3	Leven	Level6	Level2	Level4	Level5			
3.Max. Brake Force	50%	25%	75%	100%	Disable				
4.Max. Reverse Force	25%	50%	75%	100%					
5.Neutral Range	9% (narrow)	6% (Normal)	12% (Wide)						
6.Motor Overheat Protection	120 Stop	135 Stop	150 Stop	120 Slow	135 Slow	150 Slow	Disable		
7.FSC Overheat Protection	105 Stop	95 Stop	105 Slow	95 Slow	Disable				
8.Running Mode	Forward / FS Brake	Forward / Brake	Forward / Reverse						
9.Drag Brake Force	0%	5%	10%	20%	30%				
10.Timing OFF	Off	10	20	30	40				
11.Turbo Timing	Off	10	20	30	40	50	60		
12.PWM Frequency	8K	2K	4K	12K	16K	24K			
13.Brake PWM Frequency	1KHz	400Hz	600Hz	800Hz	2K	4k			

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Documents / Resources



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