[DECLARATION]

Thanks for purchasing our Electronic Speed Controller (ESC). The power system for RC model can be very dangerous, so please read this manual carefully. In that we have no control over the correct use, installation, application, or maintenance of our products, 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.

[FEATURES]

- ☑ Completely water-proof and dust-proof. The ESC works properly even under water.
- (Please remove the cooling fan when running car in water, and after running, please make the ESC clean and then dry it to avoid the oxidation of copper connectors)
- Excellent start-up, acceleration and linearity features, suitable for truggy (especially short course trucks) and buggy. \boxtimes
- The built-in switching mode BEC has powerful output to supply all electronic equipments. \boxtimes
- There is a mounting stand for installing the ESC on chassis easily and firmly. \boxtimes
- Proportional ABS brake function with 5 steps of maximum brake force adjustment, 8 steps of drag-brake force \boxtimes adjustment. Also compatible with the mechanical disc-brake system.
- Multiple protection features: Low voltage cut-off protection / Over-heat protection / Throttle signal loss protection / M Motor blocked protection
- \boxtimes Easily programmed with the SET button of the ESC.

[Specifications]

[Specifications]	
Model	WP-SC8-RTR
Cont./Burst Current	120A/760A
Motor Supported	Sensorless brushless motors
	1/10 SCT/Truggy/Buggy/Monster
Cars Applicable	1/8 SCT/Buggy Incl. Traxxas 1/10 Truggy/Buggy
	2S Lipo: KV≤6000
Motor Limit	3S Lipo: KV≤4000
	4S Lipo: KV≤2600
Resistance	0.0004 ohm
Battery	6-12 cells NiMH
Dattery	2-4S Lipo
BEC Output Note 1	6V/3A Switch mode
Dimension	59.3(L) × 38.4(W) × 33.6(H)
Weight (With Wires)	113g

NOTE1 : The cooling fans of ESC is supplied by the built-in BEC, so it is always working under 6V.

[Begin To Use The New ESC]

WARNING! For safety, please always keep the wheels away from the track when switching on the ESC.

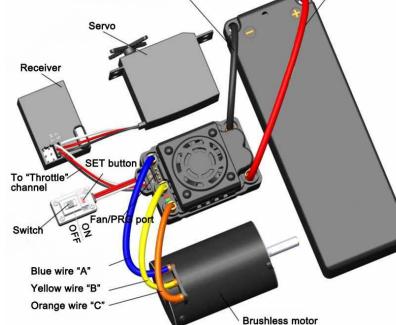
1. Connect The ESC, Motor, Receiver, Battery And Servo

The #A, #B, #C wires of the ESC can be connected with the motor wires freely (without any sequence). If the motor runs in the opposite direction, please swap any two wire connections.

2. Throttle Range Setting (Throttle Range Calibration)

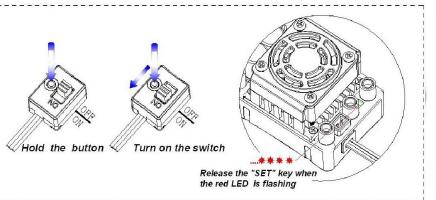
In order to make the ESC match the throttle range, you must calibrate it when you begin to use a new ESC, or a new transmitter, or change the settings of neutral position of the throttle stick, ATV or EPA parameters, etc.

The following pictures show how to set the throttle range with a transmitter.



Battery - (Black)

- A) Switch off the ESC, turn on the transmitter, set the direction of throttle channel to "REV", set the "EPA/ATV" value of throttle channel to "100%", and disable the ABS function of your transmitter.
- B) Hold the "SET" key and then switch on the ESC, and release the "SET" key as soon as possible when the red LED begins to flash. (Note2)



Note2: If you don't release the "SET" key as

soon as the red LED begins to flash, the ESC will enter the program mode, in such a case, please switch off the ESC and re-calibrate the throttle range again from step A to step D.

C) Set the 3 points according to the steps shown in the pictures on the right side. 1) The neutral point Move the throttle stick at the neutral point, and then click the SET key, the green LED flashes 1 time.

2) The end point of forward

Move the throttle stick at the end point of forward direction, and then click the SET key, the green LED flashes 2 times. 3) The end point of backward

Move the throttle stick at the end point of backward

direction, and then click the SET key, the green LED

D) Throttle range is calibrated; motor can be started after 3

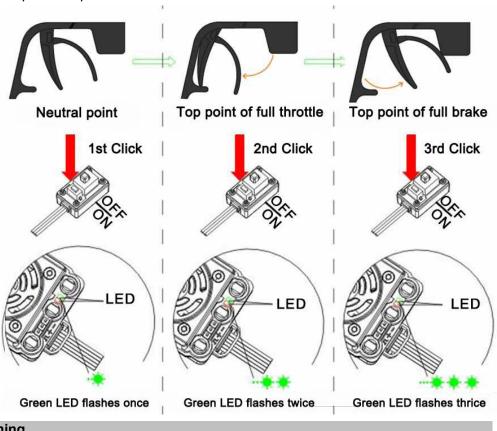
direction

direction

flashes 3 times.

seconds.

Battery + (Red)



Check LED Status In Normal Running

- When the throttle stick is in the neutral range, neither the Red LED nor the Green LED lights up. \boxtimes
- \boxtimes top position (100% throttle).
- \boxtimes position and the maximum brake force is set to 100%.
- \boxtimes When the car reverses, the Red LED solidly lights.

[PROGRAMMABLE ITEMS LIST] (The italics texts in the following form are the default settings)

Programmable	Programmable Value								
Items	1	2	3	4	5	6	7	8	9
1. Running Mode	Forward with Brake	Forward/Reverse with Brake	Forward and Reverse						
2.Drag Brake Force	0%	5%	10%	20%	40%	60%	80%	100%	
3.Low Voltage Cut-Off Threshold	Non-Protection	2.6V/Cell	2.8V/Cell	3.0V /Cell	3.2V /Cell	3.4V /Cell			
4.Start Mode(Punch)	Level1	Level2	Level3	Level4	Level5	Level6	Level7	Level8	Level9
5.Max Brake Force	25%	50%	75%	100%	Disable				

1. Programmable Values

1.1. **Running Mode:** In "Forward with Brake" mode, the car can go forward and brake, but cannot go backward, this mode is suitable for competition; "Forward/Reverse with Brake" mode provides backward function, which is suitable for dailv training.

Note: "Forward/Reverse with Brake" mode

When the car moves forward, the Red LED solidly lights; the Green LED also lights up when the throttle stick is at the

When the car brakes, the Red LED solidly lights; the Green LED also lights up when the throttle stick is at the bottom

uses "Double -click" method to make the car go backward . When you

User manual brushless ESC Thrust A8 ECO waterproof

move the throttle stick from forward zone to backward zone for the first time (The 1st "click"), the ESC begins to brake the motor, the motor speeds down but it is still running, not completely stopped, so the backward action is NOT happened immediately. When the throttle stick is moved to the backward zone again (The 2nd "click"), if the motor speed is slowed down to zero (i.e. stopped), the backward action will happen. The "Double -Click" me thod can prevent mistakenly reversing action when the brake function is frequently used in steering.

By the way, in the process of braking or reversing, if the throttle stick is moved to forward zone, the motor will run forward at once.

"Forward/Reverse" mode uses "Single -click" to make the car go backward. When you move the throttle stick from forward zone to backward zone, the car will go backward immediately. This mode is usually used for the Rock Crawler.

1.2. Drag Brake Force: Set the amount of drag brake applied at neutral throttle to simulate the slight braking effect of a neutral brushed motor while coasting.

1.3. Low Voltage Cut-Off: The function prevents the lithium battery pack from over discharging. The ESC detects the battery's voltage at any time, if the voltage is lower than the threshold for 2 seconds, the output power will be cut off, and the red LED flashes in such a way: " \square -, \square -, \square -".

1.4. Start Mode (Also called "Punch"): Select from "Level1" to "Level9" as you like . Level1 has a very soft start effect, while level9 has a very aggressive start effect. From Level1 to Level9, the start force is increasing. Please note that if you choose "Level7" to "Level9" mode, you must use good quality battery with powerful discharge ability, otherwise these modes cannot get the burst start effect as you want. If the motor cannot run smoothly (that means the motor is trembling), it may caused by the weak discharge ability of the battery, please choose a better one or a softer gear ratio.

1.5. Maximum Brake Force: The ESC provides proportional brake function. The brake force is related to the position of the throttle stick. Maximum brake force refers to the force when the throttle stick is located at the end point of the backward zone. A very large brake force can shorten the brake time, but it may damage the gears. The "Disable" option inhibits the inherent brake function of the speed controller. When this option is selected, the brake function is realized by a traditional mechanical disc-brake system driven by a servo.

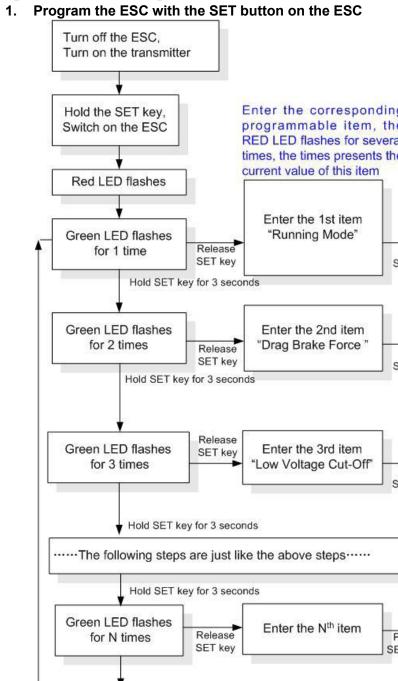
2. Reset All Items To Default Values

At any time when the throttle is located in neutral zone (except in the throttle calibration or parameters program process). hold the "SET" key for over 3 seconds, the red LED and green LED will flash at the same time , which means each programmable item has be reset to its default value. It needs to be restarted to complete the whole process.

[TROUBLE	E SHOOTING]
-----------------	-------------

Trouble	Possible Reason	Solution
After power on, motor doesn't work,	The connections between	Check the power connections
and the cooling fan doesn't work	battery pack and ESC are not	Replace the connectors
	correct	
After power on, motor can't work,	Input voltage is abnormal, too	Check the voltage of the battery pack
but emits "beep -beep-, beep-beep-"	high or too low	
alert tone. (Every "beep -beep-" has		
a time interval of 1 second)		
After power on, red LED always	Throttle signal is abnormal	Plug the control wire into the throttle channel
lights, the motor doesn't work		of the receiver correctly.
The motor runs in the opposite	The wire connections between	Swap any two wire connections between the
direction when it is accelerated	ESC and the motor are not	ESC and the motor.
	correct	
The motor suddenly stops running	The throttle signal is lost	Check the transmitter and the receiver
while in working state		Check the signal wire from the throttle channel
		of your receiver
	The ESC has entered the Low	5 5
	Voltage Protection Mode or	LED flashing means Over-heat
	Over-heat Protection Mode	
When accelerating quickly, the	1) The battery has a bad	1) Use a better battery
motor stops or trembles	discharge performance	
	2) Gear ratio is too aggressive	2) Use lower KV motor or softer gear ratio
	3) The "Start Mode (Punch)" of	
	the ESC is too aggressive	value
When the throttle stick is in the	Over current protection, motor	
neutral range, the red LED and the	demagnetization, or motor is	reduce the input voltage)
green LED flashes synchronously	over load	2) Change the motor

[PROGRAM THE ESC]



Note:

- In the program process, the motor will emit "Beep" tone when the LED is flashing. \boxtimes
- \boxtimes We use a long time flash and long "Beep----" tone to represent number "5" for easily identify the items of the big number.
 - " A long time flash" (Motor sounds "B ----") = the No. 5 item
 - " A long time flash + a short time flash" (Motor sounds "B ---B") = the No. 6 item
 - " A long time flash + 2 short times flash" (Motor sounds "B ---BB") = the No. 7 item
 - " A long time flash + 3 short times flash" (Motor sounds "B ---BBB") = the No. 8 item
 - " A long time flash + 4 short times flash" (Motor sounds "B ---BBBB") = the No. 9 item

9 e al e	Press the SET key to choose the programmable value, the RED LED flashes for several times, the times presents the serial number of the value you are choosing	
Press GET key	Red LED flashes for 1 time to choose "Forward with brake" Red LED flashes for 2 times to choose "Forward/Reverse with brake" Red LED flashes for 3 times to choose "Forward and Reverse"	Finis
► Press ET key	Red LED flashes 1 time, choose "0%" Red LED flashes 2 times, choose "5%" Red LED flashes 3 times, choose "10%" Red LED flashes 4 times, choose "20%" Red LED flashes 5 times, choose "40%" Red LED flashes 6 times, choose "60% Red LED flashes 7 times, choose "80%" Red LED flashes 8 times, choose "100%	Finish programming, switch off the
Press ET key	Red LED flashes 1 time, choose "None" Red LED flashes 2 times, choose "2.6V" Red LED flashes 3 times, choose "2.8/V" Red LED flashes 4 times, choose "3.0V" Red LED flashes 5 times, choose "3.2V" Red LED flashes 6 times, choose "3.4V"	ESC,
Press	Press SET key to choose the value, the flash times of RED LED means the serial number of the value (1 time means the 1st value, 2 times means the 2nd value)	and then switch it on

If you got any problems with this speed controller please contact your local hobby shop or Absima Distributor via www.absima.com

Declaration of conformity For the products manufactured by Absima GmbH mentioned in this manual the compelling and relevant EC Directive will apply: Direktive: 2004/108/EG

CE

The following special directives will apply: EN 61000-6-1:2007 EN 61000-6-3:2007



This symbol on the products and / or accompanying documents means the used electrical and electronic products must be at the end of their lifetime separated from household waste. Please take these products for the treatment, recovery and recycling to designated collection points, which will receive the devices free of charge. The proper disposal of this product, prevent any potential adverse effects on humans and the environment which could otherwise arise from inappropriate waste handling at the end of its lifetime. For more details of your nearest designated collection point, contact your local authority.

For business users in the European Union, please contact your dealer or supplier for further information if you wish to dispose electrical and electronic equipment. He holds further information ready for you. Information on disposal in other countries outside the European Union. This symbol is only valid in the European Union.

Absima GmbH Gibitzenhofstr. 127A D-90443 Nürnberg Phone: +49 (0) 911 65084130 Fax: +49 (0) 911 65084140 email: info@absima.com

www.absima.com © 2016 Absima GmbH Änderungen und Irrtümer vorbehalten. Changes and errors excepted. WEEE-Reg.-Nr. DE 69286900

Made in China