

3471E **CAR Brushless ESC Manual**

7.2V 7.4V

5.4V

Initial Detected voltage x70%

6.0V

6.6V

4.8V

Low power auto-cut table

Battery Volt

AUTO

NI-CD/NI-MH

LI-PO

LI-FE

Specification

- 1.Input Voltage: 7.2V(NI-CD/MH) 7.4V(LI-PO) 6.6V(LI-FE)
- 2.Output:Rating 50A, Peak:80A
- 3.Out max power: 30A/7.2V(MAX 216W)
- 4.Size/Weight:40mmX28.8mmX30mm/52g(Fan excluded)
- 5.BEC:5V 2A
- 6.P.W.M:9.5KHz
- 7.MOTOR:
- Support 540S Brushless Motor/7.4V under 3600KV

Over temperature protection

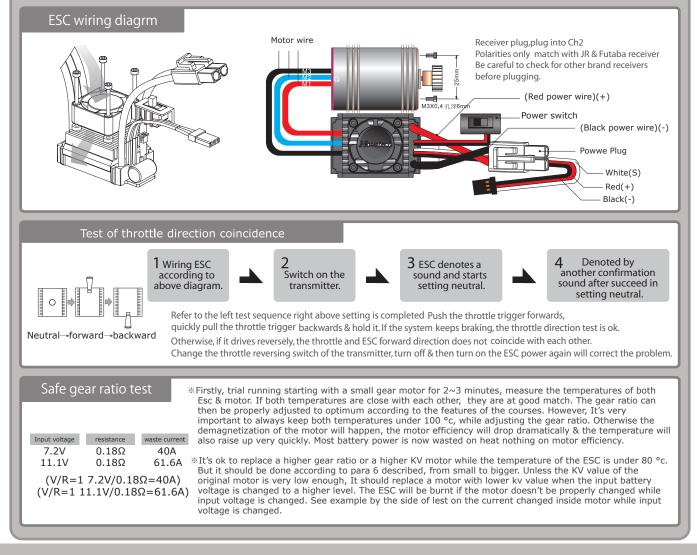
The motor will be intermittenly turned off when the temperature reaches around $95^{\circ}C(\pm 3 \sim 5^{\circ}C)$. Optional vent fan is available for selection to enhance the ESC ventilation.

Warning

- 1.Avoid touching ESC heat sink or motor casing right after operation for not burning your boby or skin.
- 2. To avoid poor contact or overheat melting of connector and rated connector & wires while replacing the original ESC connector or elongating the connecting wires.
- 3.Connect the battery pack just before driving, disconnect & take it out of the car immediately after termination. Always make sure connecting the ESC to a proper power source that has correct voltage & polarity.Incorrect voltages or reversed polarity will damage the ESC.Don't solder ESC wires directly

battery.A prpoer connector is a must to be used in between.

- 4. Please make sure turn off ESC power, when you use set-up card (B6090). And take the servo wire out of the receiver, then insert the set-up card according to the electrode sign on the card. You need to turn off ESC power when setting is done, then insert servo wire into the receiver.
- 5. This ESC is not for waterproofing; please letting ESC out of water when use. Or take the power plug out when it in water and use dryer to make ESC dried, then turn on power and test it again.



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Brushless Setting Card

 The setting parameters displayed after plugging on the programming board are the parameters programmed last time not the parameters inside current ESC.
Press down " Enter " button after setting all prarmeters, a sound of " Di Di Di (for Brushless ESC)" or " Di Di Di Di Di (for Brushed ESC)" indicates that setting is successfully completed.

Set process

- 1.Turn off the "ESC" power and take the servo wire out of the receiver, then insert the set-up card according to the electrode sign on the card, and then turn on "ESC" power.
- 2. The set-up card will transfer the last setting to ESC, a series of sound from motor to confirm the finish of the setting transfer. By pressing down the corresponded buttons of each parameter to change the setting level as required. Red led indicates level of parameter being selected. Press down the "Enter" button to transfer the new setting to ESC, another sound come out from motor indicates completed transfer.
- 3.Turn off the ESC power, plug servo line into receiver, & then turn on the ESC power. Followings are ESC parameters able to be set by programming board.

(Reverse Power) 4 set up levels, low, middle & high.							
	OFF	LO	MI	HI			
	Disable	Lower	Power	High			

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	Standard	LO	MI	HI
	Lower	P	ower	High
	* The lower the	sotting the more smoo	thly startup will be. The	higher the setting

% The lower the setting, the more smoothly startup will be. The higher the setting the stronger respond of acceleration will be.

(Drag Brake) Set of brake strength while the throttle gets bach to the contra position.							
	0000		000				
OFF	LO	MI	HI				
Disable	Lower	Drag Brake	High				

(Battery Type)

Press down the right hand side button to select the battery type being used.

(Neutral Setting)

- 1.Auto -Esc default set at Auto, support transmitter with 50-50 or 70-30 throttle.
- 2.Manual- Adjust the throttle of transmitter to the factory default setting, insert the set-up card & press "manual" button. Plug the servo wire back into receiver. Turn on the ESC, sound of "Bi Bi Bi" denotes. Move the throttle to the forward full, stay 2 second & get a sound of "Bi Bi Bi". Move the throttle to the reverse full, stay 2 second & get a long and quick sound of "Do Ra Mi Fa So". Release the throttle to the central point, & get a sound of "Do Mi Do Mi". The manual set up of the ESC neutral is now completed. Be sure to strictly follow the set up steps at the sequence of forward full, reverse full & then neutral. Otherwise the manual set up can't work properly.
- 3. Once after press down the manual button, the set-up process should be completed within 15 sec; otherwise, the ESC will be reset to the auto-neutral detecting.

If you use other mode on the programming card (ex: Start Power) after set the manual setting mode, you have to change neutral setting from Manual to Auto, and then it won't affect the manual setting as before as you setting.

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