carisma

arca

无刷调速器

Instruction manual

01 Warnings and installation manual

1. Before connecting the ESC to the electric connector pack, please make sure that all the wires and connectors are in the correct polarities and insulated. Short circuit may instantly destroy the ESC. Which
2. Make sure the connection is well soldered. If the connection is insufficient, you may experience intermittent or complete loss of control and it may damage the motor or cause other equipment damage.
3. Before using the ESC, please carefully read the user manual instructions and familiarize yourself with the details of the equipment used. This is crucial to avoid overheating the motor due to wrong power configurations and eventually damage the ESC. It is recommended the ESC is used as a vehicle. Electronic devices are fragile. Exposure of the ESC to harsh or shaky environments, like flying or in the ESC, accepting to changes in the specifications or requests of the ESC or vehicle movements. Using high speed operation, the end of the car might "FLOAT" due to the extreme motor speed, so please do not power the car in 2.4 power in "a low situation" - where it flies go and? otherwise the ESC may not work and cause serious damage to electronics.
4. Do not use the ESC in extreme temperatures exceeds 50°C (50°F), as high temperatures will damage the ESC controller.
5. After each usage, always disconnect the battery and the ESC. If the battery is not disconnected, the ESC will continue to receive power. If the battery remains connected for a long time, the remaining battery capacity will eventually be completely consumed. This might cause the battery or the ESC to malfunction. We are not responsible for any damage caused.
6. Do not allow children to use the product without adult supervision.
7. The ESC may become very hot while in operation, please avoid any contact.
8. The ESC equipment must not be exposed to moisture or water.
9. If the ESC is overheating, please go to a cooler or dry place, or use a fan to cool down the equipment. Avoid exposure to moisture and water. Do not dry and wait until it cools down.

02 Feature of product

1. Multiple protection functions: low voltage protection, ESC overheating protection
2. Built-in switch mode BEC: continuous current 3.0A, output voltage 6V
3. High speed fan extended cooling system
4. Internal power switch
5. This product is not waterproof. Do not operate under wet conditions
6. Power Overload protection

03 Product Specifications

Model	arca
Model	1/10
Sensorless Motor type	Sensor less brushless motor
Many applicable models	1/10 Road
Number of battery cells	2-3S Lipo
BEC output	6V output, continuous current 3.0A
Fan power	6V stable input from BEC
Dimensions	44.6mm*35.6mm*31.5mm/1.75kg

04 Sensorless Brushless Motor Connection only

Please refer to the instructions and wiring diagram for correct wiring:

1.Connect the motor:

When connecting a sensorless brushless motor:

ESC wire sequence A(U)B(V)C(from ESC to correspond with A(U)B(V)C wires of the motor. If optimizer rotation is reversed, swap either A&B(U&V) or A&C wires.

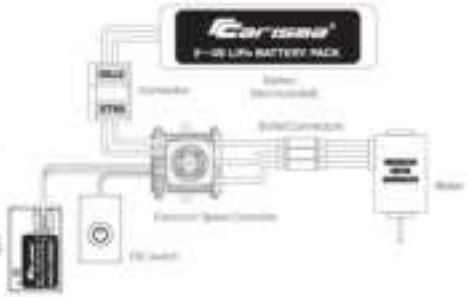
2.Connect the receiver:

Insert the BEC control cable as shown in the picture into the receiver connector plug. Please note the polarity as well, plug position in reverse. Channel 2 is normally the connector port.

3.Connect the battery:

The battery with ESC are polarity connected. Black is black (-negative), red is red (+positive). Please avoid any reverse connections, it will damage the ESC.

The ESC is equipped with an XT60 connector. Always use batteries with XT60 connectors.



05 Setting up the ESC

⚠ This power system is intended for professional use only. For the safety of yourself and others around you, we strongly recommend that you remove the small gear of the motor or remove the wheels before calibrating and setting the system.

5A Set the throttle travel

Before first use of ESC, or in case the remote control has been changed, or setting changes as throttle "TRIM", DB, EPA and other parameters, it is necessary to reset the throttle high point, otherwise the ESC may cause irregular performance or even will malfunction. Also make sure that the radio trim setting values of throttle high point as well brake high point are set to 100%. In addition if applicable, we highly recommend to enable the failsafe function of the remote controller at the same time.

Throttle calibration steps are shown in the figure below:

With the ESC turned off, press and hold the power button until there is a beep and release it. At this time, the ESC is in the state of remote control waiting to be set. Pull the throttle trigger to the middle neutral position of the throttle, short press the power button, and the ESC beeps once. Pull the trigger at full throttle direction, short press the power button and the ESC beeps twice. Push the trigger at full brake, short press the power button, and the ESC beeps 3 times.

At this point, the ESC is momented with the throttle travel positions.

5B Instructions for switching on and off and beeping

1) Instructions for switching on and off:

Short press the ON/OFF button to turn it on when it is off, press and hold the ON/OFF button to turn it off when it is on.

2) Instructions for beeps when starting up:

When starting up under normal conditions, the motor will emit a number of beeps indicating the number of LiPhoenCells. Example: "Beep Beep" means 2 LiPhoen batteries, "Beep Beep Beep" means 3 LiPhoen Batteries.

06 Description of the ESC Status Indicator (LED)

1 Start-up phase

Everything is OK/Standby: LED green/red active.
No receiver signal: no LED.

2 Itinerary stage

Maximum forward throttle (full power): LED flashes green.
Maximum reverse throttle (full power): LED flashes red.
The ESC is overheated and the LED flashes green/red alternately.
Low voltage protection: LED flashes red slowly.

07 Troubleshooting quickly

Symptom	Possible cause	Solution
After battery is connected to the ESC and trying to operate it, either the LED light does not function, or the motor does not function/beep, and/or the fan does not work.	1. The battery voltage is too low 2. The ESC switch or the fan are damaged 3. The positive and negative poles of the ESC are reversed	1. Check whether the battery is charged, and connecting wires are correctly connected. 2. The switch or fan to be repaired/replaced. 3. Adjust the positive and negative wires to the correct sequence
After power is powered on, a flashing fault signal is detected (the green light flashes all the time, and the motor emits a singing sound)	1. The ESC does not detect the throttle signal 2. The neutral of the ESC throttle does not match the remote control	1. Check whether the throttle cable is inserted correctly in the receiver, or the channel is inserted correctly, or radio is switched on. 2. Recalibrate the ESC as a priority.
The throttle is moved in forward position, but the car reverses.	The vehicle motor position is opposite of normal.	Swap either A&B, or B&C wire position
During vehicle operation, it unable to move or the power output is significantly reduced.	1. The internal wires are loose/broken 2. The ESC enters the battery low voltage protection mode 3. The ESC enters the overheat protection protection mode	1. Check the wiring of the motor, the receiver and fuse for battery power of the vehicle. 2. The ESC having set minimum voltage protection, please replace/recharge the battery. 3. The ESC having generated alternately for temporary protection. Please wait for the ESC temperature to drop before continuing using?
The motor stops/stutters and cannot be started	1. The plug of the electric motor connection has incorrect connection. 2. Internal electrical component failure	1. Check each welding point and re-weld if necessary. 2. Contact the dealer/supplier in fact support to deal with maintenance/return
Moving forward normally, but unable to reverse	1. The telescopic of the accessory channel of the remote control remains from the braking area 2. The potentiometer trim "Rev Mode" is set incorrectly 3. The ESC is damaged	1. Adjust the neutral points of the throttle travel so that when the throttle and the remote controller is in the middle position, the indicator light on the ESC will not light up. 2. Re-adjust the calibration sequence 3. Contact the dealer/supplier to deal with maintenance/return
When setting the throttle range, when pressing the SET button to set the endpoint, the green light does not flash and there is no sound confirmation	1. The ESC throttle cable is not inserted into the correct channel of the receiver 2. The ESC throttle cable is inserted backwards 3. The forward and reverse throttle travel setting is not set to 100%	1. Insert the throttle cable into the CH correct channel on the receiver. 2. Check that the sequence of the receiver markings is inserted correctly. 3. Provide forward and backward travel is set to 100%

FOR DETAILED MANUAL AND PARTS FINDER, PLEASE GO TO HERE

有关详细的手册和零件查找器，请到这里

PER MANUALE DETTAGLIATO E RICERCA PARTI, PER FAVORE, VAI QUI

FÜR DETAILLIERTE HANDBUCH UND TEILESUCHE, BITTE GEHEN SIE HIER

POUR LE MANUEL DÉTAILLÉ ET LA RECHERCHE DE PIÈCES, VEUILLEZ ALLER ICI

詳細なマニュアルと部品の検索については、ここに行ってください

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