INSTRUCTION MANUAL



• Calibration transmitter's neutral position automatically

INTRODUCTION

Thank you for purchasing G-Force SPORT brushed ESC for 1/10 scale car. Please read the Instruction Manual thoroughly before you use the product. These operating instructions are designed to ensure that you quickly become familiar with its features and functions and make full use of this product.

SAFETY NOTE

- It is not a toy and suitable for users older than 14 years old.
- Never allow water, moisture, oil or other foreign materials to get inside ESC, motor, or on the PC Boards. It may damage the ESC completely.
- Never disassemble the ESC and modify the components on the PC Boards.
- Never solder one part for more than 5 seconds as some components will get damaged by high temperature.
- Never run the ESC without load at full throttle and it may damage the bearings and other moving parts.
- Please make sure the location where to fix the ESC has good airflow ventilating so that the heat could dissipate quickly.
- To avoid short circuit, please keep the ESC connectors far away from other metal parts.
- Never connect the battery in polarity in reverse.
- Please remove the pinion gear before performing calibration and programming functions with this system. Please keep your hands, hair, cloth, clear from the gear train and wheels
- Before you switch on the ESC, please make sure all the cables are well solder with the connectors (It is easy to get loose when running). What's more, make sure the cables not touch the moving parts.
- To avoid signal interference, please always turn on the transmitter first THEN turn on the speed control. Do the opposite when powering it off.
- Never use faulty accessories, e.g. faulty motor which may damage the ESC. Always insulate exposed wiring with heat shrink tubing or electrical tape to prevent short circuits, which can damage ESC too.

- Always disconnect the battery pack from the speed control when not in use to avoid short circuits and possible fire hazard. When the ESC is switched off, there is still small current and it may cause over discharge of the battery after some time.
- This ESC can support 4-6 cells NiMH or 2S cells LiPo battery.

PREPARATION

1) Plan Speed Control Placement

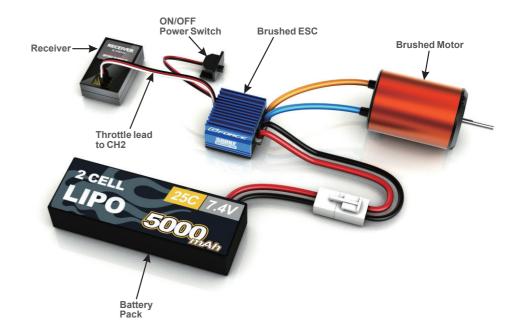
Choose a location for the speed control that is protected from debris. To prevent radio interference, place the speed control as far away from the radio receiver as possible and keep the power wires as short as possible. Select a location that has good airflow ventilating. If the ESC gets air flow, it will run cooler; and that means it will be more efficient.

2) Mount Speed Control in Vehicle

Use double-sided tape to mount the speed control in vehicle (do not use CA glue).

CONNECTION

- 1) Connect Throttle lead to ESC and other end to the Receiver (Throttle Channel, CH2)
- 2) Connect the motor and the ESC.
- Connect ESC to battery pack.



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LOW VOLTAGE CUTOFF FOR 2S LIPO

How to turn on 2S LiPo low voltage cutoff?

- 1. ESC switch OFF. Turn on the Transmitter. Hold full throttle on your transmitter and turn the ESC's switch ON. Keep holding full throttle on the transmitter. The ESC will flashes red LED and ring beep... beep... tones. Wait 3 seconds.
- 2. Release trigger to neutral (center) and wait one second.

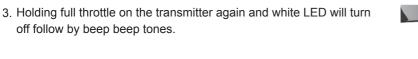


3. Holding full throttle on the transmitter again and white LED will turn on follow by beep beep tones.



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EXPLANATION OF LED INDICATOR

The throttle trigger is in neutral position	Red LED is stays ON
The motor is running while the throttle trigger doesn't reach to the highest throttle/brake position	Green LED is blinking.
The throttle trigger is at the highest throttle/brake position.	Green LED stays ON
Low voltage cutoff for 2S LiPo Battery	White LED stays ON
Voltage low for 2S LiPo Battery	Red LED is blinking.

Controls	Forward / Brake / Reverse
Constant/Burst Current	60A/200A
Motor Compatible	Brushed Motor
Car Compatible	1/10 Buggy and Touring Car
Motor Limits	6S NiMH or 2S LiPo ≥ 15T
Resistance	0.0018ohm
Battery Cell Count	6S NiMH or 2S LiPo
BEC Output	6V@1A
Size	35.3x32.4x19.7mm (LxWxH)
Weight	38g









Products by G-FORCE, Inc. www.gforce-hobby.jp

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