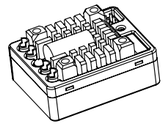
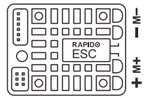
Outstanding Model Gear



RAPIDO ESC

ELECTRONIC SPEED CONTROLLER



PROGRAMABLE ITEM

1.Running mode: F/B/R mode, F/B mode, F/R crawler mode, the factory default value is F/B/R mode.

The F/B/R mode, that is Forward/Reverse with Brake which provides a reverse function and is suitable for practice. The reverse function is engaged by a Double click method. On the first application of backwards throttle, brakes are applied. On returning to the neutral point, and then applying the backwards throttle for a second time, the reverse function will be engaged. However, if at this time the motor is still moving forward (i.e in a double braking action from high speed), the ESC will not go into reverse. The motor must be at 0 rpm to engage reverse. This is a protection function for a reversing by mistake.

The F/B mode, that is forward with brake mode, which only go forward and have brakes, but reverse is disabled. This mode is suitable for competition purposes.

The F/R crawler mode, that is Forward / Reverse mode which provide the single-click reversing function. When moving from the neutral point to the backward zone, the ESC will engage reverse immediately. This mode is intended for rock crawling applications.

"Boat" mode, which uses a new procedural algorithm designed entirely for RC boat models.

2.Battery Type: Lithium Battery (Lipo) / NiMH battery, the default is Lipo

DECLARATION

Thank you for purchasing the RCOMG brand RAPIDO series brushed electronic Speed Controller (ESC) for RC Models! Incorrect use may cause personal injury and equipment damage, so please read this manual carefully before using and operate as per the manual guide strictly. We do not assume any liability arising from the use of this product, including but not limited to liability for incidental or consequential damages; at the same time, we do not assume any liability arising from unauthorized modifications to the product. We reserve the right to change product design, appearance, performance and usage requirements without notice.

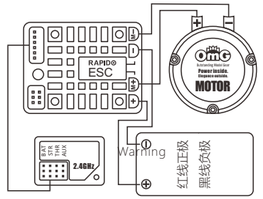
FEATURES

- Waterproof and dust proof , suitable for various climatic environments;
- Three running modes (F/B mode, F/B/R mode, and F/R crawler mode), suitable for various RC cars;
- 5V/3A BEC output capability;
- Automatic throttle stroke tuning, easy in operation, friendly for beginners;
- Unique design for air guide and cooling, better heat dissipation and stronger current resistance;
- Jumper setting for ESC parameter;
- Multi Protection Functions, including
- Motor overheat protection , low voltage cutoff and throttle signal loss protection.

ESC CONNECTTED

1 This ESC does not have reverse power supply protection. If the power supply is reversed, an instant irreversible damage to the ESC and the battery may happen.
So Please pay more attention to the polarity of the battery when using it. It is highly recommended to use the battery with antireverse function plug.

2 If the rotation direction of the motor is wrong, please exchange the two wires of the motor.



RAPIDO-DR-60A

Forward:continuous current/peak current 60A/360A
Reverse: continuous current/peak current 30A/180A
Voltage range: 2-3S Lipo
Applicable models: 1/10 electric TC, electric buggy, short-course truck, monster, Truck, crawlers
BEC output: 3A / 6V (switch regulator mode)
Fan operating voltage: no fan

支持电机T数	2节锂电	540	≥12T或RPM低于30000@7.2V
	2节锂电	550电机	≥18T或RPM低于20000@7.2V

内阻(单桥臂)：正转：0.001Ω, 反转: 0.002Ω
Size:36.5x32x18mm Weight:39g

具有2对电机输出线，可驱动 2 个电机。当同时驱动两个电机时，所支持的电机T数需要增加。这种情况常见于低速双电机攀爬车。

THROTTLE RANGE SETTING

Turn on the transmitter, set the "D/R", "EPA", "ATL" value of the throttle channel to 100% (if the transmitter has no display, turn the corresponding knob to the max), and set the throttle trim to "0" (if the transmitter has no display, turn the corresponding knob to the neutral point).

Please set the throttle channel direction to "REV" for FUTABA and similar transmitters, and set "NOR" for other branded transmitters.

We strongly recommend to turn on the fail-safe protection function of the transmitter, setting the no-signal protection ("F/S") function of the throttle channel to the output turn-off mode or turning the protection value to the neutral point, so that the motor can stop running when the receiver cannot receive signal from transmitter.

Switch on the ESC , with the transmitter stick at neutral point, and wait until the ESC self-check and auto-throttle calibration process finished (within 3 seconds). It will be in normal running after hearing the self-check success beep.

Number of battery cells and self-test beep sound indication

1 short beep sound	NiMH NiCd battery
2 short beep sound	2S lipo
3 short beep sound	3S lipo
4 short beep sound	4S lipo
1 long beep sound	Success of throttle self-checking and tuning

LED Status In Normal Running

LED red no flash	the throttle stick is in the neutral range
LED red flash	forward, brake, reverse under non-full throttle
LED red solid bright	forward, brake, reverse under full throttle

Direction of the position status of the transmitter throttle stick

PARAMETER SETTING METHOD

ESC adopts jumper cap setting method, which can be set to running mode and battery type Setting method: It is recommended to use tweezers and refer to the diagram below, unpluging the jumper cap to set the parameter; if you want to set the battery type to "Lipo" mode, just insert the jumper cap into the two PINs on the left side of the battery.

Description of protection function

1. Voltage cutoff: When the ESC detects that the battery voltage is lower than the protection threshold for 2 seconds, it will enter the low-voltage protection state and and the red LED flashes (usually, the ESC has two levels of low-voltage protection, the first level is to reduce the output power, and the second level is to shut off the output power completely),

Note: When setting to boat mode, the motor will stop running after entering the low voltage protection. At this time, please return the throttle stick to the zero-speed position, and then increase the throttle again to make the motor continue to run, but only half of the power output power available against normal conditions, docking and stopping the boat immediately.

2.Over-heat protection: When the internal temperature of the ESC is higher than 100°C, the output power will be reduced until the output power is cut off (when over-heat protection applied, the ESC will not cut off the output power suddenly, so as to avoid accidents caused by sudden shutdown). After stopping running, the red light will flash, and when the temperature is lower than 80°C, the normal output power will be restored.

4.Throttle signal loss protection: When the ESC does not detect the throttle signal for 0.1 seconds, the output power will be shut off, and it will resume normal sunning immediately after the signal is restored. It is strongly recommended to turn on the fail-safe protection function of the transmitter, setting the no-signal protection("F/S") function of the throttle channel to the output turn -off mode or turning the protection value to the neutral point, so that the motor can stop running when the receiver cannot receive signal from transmitter. (Note: the output turn-off mode means that when the receiver cannot receive the signal from the transmitter, the receiver will not output any control signal to the ESC.

Fault phenomenon **Solution**
Possible reasons

①

F Powered on, no flash, no self-test, and no beep sound.

S ESC has no working power supply; the ESC switch is damaged.

P Check whether the power input path from the battery to the ESC has bad welding, and re-weld it; replace the ESC switch.

②

F Powered on, LED red flash, and the motor does not run.

S The ESC throttle wire is inserted backwards or the channel is incorrect; the ESC cannot successfully complete the throttle self-checking and tuning process.

P Insert the ESC throttle wire into the receiver throttle channel (Throttle, channel 2) in the correct direction; set the throttle trim to "0" or turn the corresponding knob to the neutral point

③

F Throttle engage Forward , but the car reverses.

S The direction of the throttle channel of the transmitter is incorrectly set or the wiring of the motor is incorrect.

P Swap the two wires of the motor; reverse the throttle channel of the transmitter, Changing from the original " NOR" to "REV" or from the original "REV" to "NOR".

④

F Throttle cannot reach to full speed, the Throttle stick is at the Max, and the LED not solid red

S The transmitter settings are wrong.

P Set the "D/R", "EPA", "ATL" value of the throttle channel to 100% or turn the corresponding knob to the max), and set the throttle trim to "0" or turn the corresponding knob to the neutral point.

Fault phenomenon **Solution**
Possible reasons

⑤

F Can not reverse.

S "Running Mode" jumper cap is in the wrong position ; the neutral point of throttle is offset.

P Insert the "Running Mode" jumper cap into the correct position; set the throttle trim to "0" or turn the corresponding knob to the middle position.

⑥

F During the running of the motor, it suddenly stops.

S throttle signal is lost; the ESC enters the battery low voltage protection or overheat protection state.

P Check whether the battery voltage of the transmitter is too low, and whether the receiver works normally ; ESC LED red flashes indicates low voltage or overheat protection , please replace the battery pack or check the temperature of the ESC.

⑦

F The car can't move forward or reverse, and the LED status is normal.

S The connection between the ESC and the motor is broken; the motor is damaged.

P Check the connection between the motor and the ESC to make sure the connection is reliable; replace the motor with a new one.

⑧

F When the motor starts , it accelerates rapidly, and the motor gets stuck or stops sometimes.

S Battery discharging is not enough ; the motor speed is too high and the gear ratio is too aggressive; there is a problem with the car transmission system.

P Replace the battery with strong discharge capacity; replace the low-speed motor, or increase the reduction ratio; Check the car transmission system to make sure it smooth.