

120A ESC Wiring and Setup Instructions

ESC Specifications

	2S	1S
Amps	120A	120A
Resistance	0.00035 Ohm	0.00026 Ohm
Size	TBD	Footprint: W30.5mm x L36.8mm x H16mm. Width including solder tabs is 36.8mm
Weight	TBD	42g with cap, no wires
Case	Aluminum case for maximum cooling	
BEC	6V at 3A	6V at 3.5A
Battery	2S LiPo/LiFe or 4-8 cell NiMh/NiCd	1S LiPo/LiFe or 3-4 cell NiMh/NiCd
Motor Type	Sensored 540 2-pole	
Switch	Integrated on/off switch	

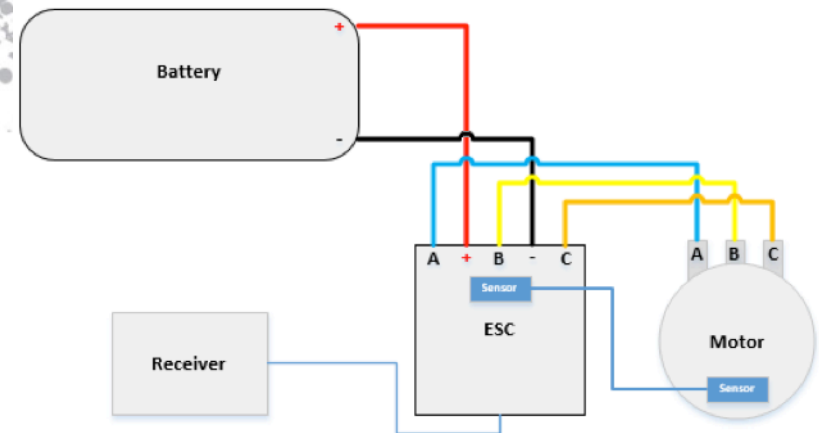
ESC Features

- Compatible with sensored 540 2-pole brushless motors.
- Data analysis.
- PC interface for advanced programming and updating.
- Easy programming through the program box.
- Built-in one touch On/Off switch with LED.
- Built-in low voltage cut-off, overheat protection and signal loss protection.

Setting Neutral, Forward and Brake Endpoints of the ESC

1. Ensure ESC is wired properly using the diagram and steps above.
2. Set transmitter throttle and brake EPA to 100%.
3. Turn ESC and transmitter off.
4. Turn on transmitter and leave throttle stick/trigger at neutral position.
5. Connect battery to ESC.
6. Press and hold the on/off button to turn esc on until a GREEN LED is lit up SOLID.
7. With throttle stick/trigger at neutral position, press the on/off button once. The GREEN LED will BLINK to indicate throttle neutral position has been set.
8. Move the throttle stick/trigger to the full throttle position, the RED LED will light up SOLID.
9. With throttle stick/trigger at full throttle, press the on/off button once. The RED LED will BLINK to indicate full throttle position has been set.
10. Move the throttle stick/trigger to the full brake position, then the GREEN/RED LED will light up SOLID.
11. With throttle stick/trigger at full brake, press the on/off button once. The GREEN/RED LED will BLINK to indicate full brake position has been set.
12. Move the throttle stick/trigger to the neutral position, the GREEN LED will light up solid to indicate that the throttle endpoints have been set.

Connection Diagram & Installation



1. Connect the speed control to the receiver Channel 2 (the white shrink wire is Signal).
2. Connect power wire "A" to the motor "A" solder-tabs.
3. Connect power wire "B" to the motor "B" solder-tabs.
4. Connect power wire "C" to motor "C" solder-tabs.
5. Connect the hall sensor cable between the speed control (underneath the solder taps) and motor.
6. Connect power wire "+" to battery "+" sign.
7. Connect power wire "-" to battery "-" sign.

Using the Program Box

1. Disconnect the ESC from the receiver.
2. Ensure the ESC is connected to the battery.
3. Plug the supplied programming wire into the Program Box in the blue slot. Make sure to respect the correct polarity.
4. Plug the other end of the supplied programming wire into the programming port or the ESC. Make sure to respect the correct polarity.
5. Turn on the ESC and the Program Box will turn on.
6. Scroll through the functions using the UP and DOWN arrow keys.
7. Use the LEFT and RIGHT arrow keys to scroll through the available settings. The setting is automatically saved after a short delay. The motor will "beep" to indicate the setting is saved.
8. When all setting changes are complete, turn off the ESC, disconnect the programming wire and re-connect the receiver wire.