

120A ESC Wiring and Setup Instructions

ESC Specifications

| | 2S | 1S |
|------------|--|---|
| Amps | 120A | 120A |
| Resistance | 0.00035 Ohm | 0.00026 Ohm |
| Size | Footprint W30.5mm x L37.2mm x H19.5mm. Width including solder tabs is 37mm | Footprint: W30.5mm x L36.8mm x H16mm. Width including solder tabs is 36.8mm |
| Weight | 59g with cap, no wires | 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 | |

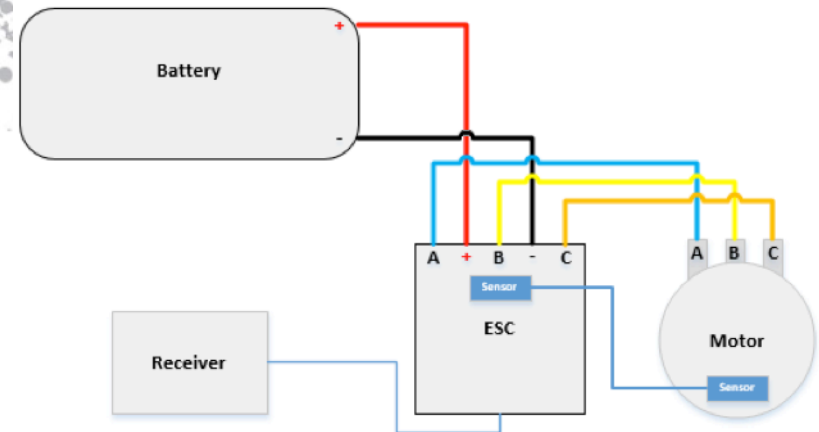
ESC Features

- 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. Turn on transmitter and leave throttle stick/trigger at neutral position.
3. Set transmitter throttle and brake EPA to 100%.
4. Connect battery to ESC.
5. Press and hold the on/off button to turn esc on **until** a GREEN LED is lit up SOLID and the ESC will BEEP repeatedly.
6. With throttle stick/trigger at neutral position, press the on/off button once. The GREEN LED will BLINK to indicate throttle neutral position is being set. **Wait** until the RED LED lights SOLID and the ESC BEEPs once.
7. With throttle stick/trigger at full throttle, press the on/off button once. The RED LED will BLINK to indicate full throttle position is being set. **Wait** until the RED and GREEN LEDs light SOLID and the ESC BEEPs twice.
8. With throttle stick/trigger at full brake, press the on/off button once. The GREEN/RED LED will BLINK to indicate full brake position is being set. **Wait** until the LEDs are off and the ESC BEEPs three times.
9. Move the throttle stick/trigger to the neutral position, the GREEN LED will light up to indicate that the throttle endpoints have been set. The GREEN LED will flash if no timing or turbo are set and will be solid green if they are 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.