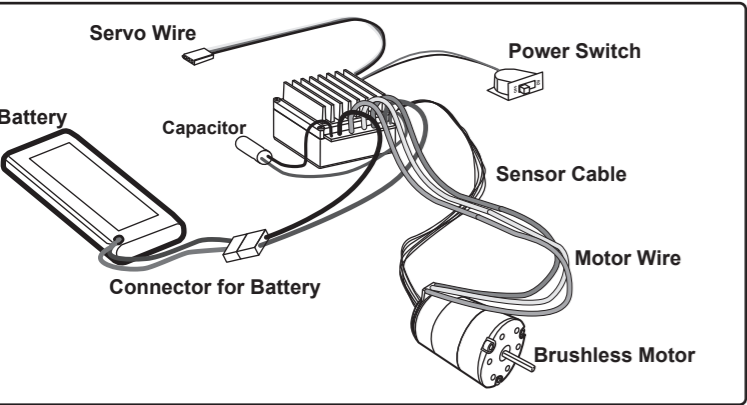


Thank you for purchasing and using the KO BLZ-350 ESC. This is a motor controller that can be used with either a sensor or sensor-less brushless motor. Maximum performance can be displayed with the use of a proper combination of motor and the use of other related equipment to be used. Please read the instruction manual carefully and use this item under suitable circumstances. Our company cannot owe responsibility from the nature of radio control models and the customer assumes all responsibilities that result from this product being used.

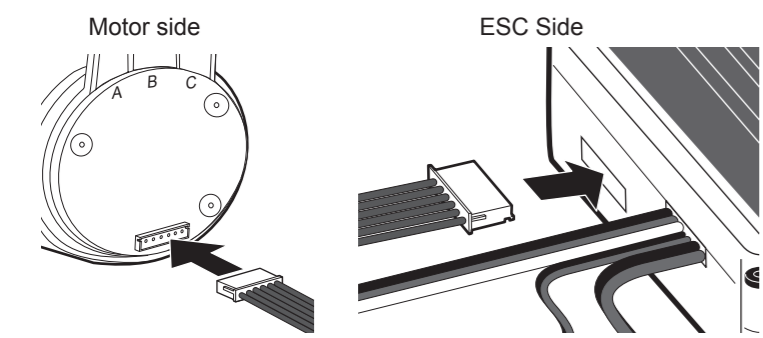
- Spec**
- Size: 35.3x31.3x21.8mm (including heat sink)
  - Max output: 65A / momentary 260A • Output: 35A
  - BEC output: 6V2A • Setup: Automatic
  - Function Mode: forward/brake/reverse
  - Input Voltage: 6V-7.4V
  - Correspondent batteries: Ni-Mh/Ni-cd 6cell LiPo/LiFe 2cell
  - Correspondent Motor: over 9.5T/ below 3900KV (sensored Bulushless Motor) and over 10.5T/ below 3500 KV (sensorless bulushless Motor)
- \*Setting up may change by using BLZ programmer.  
\*This Model fixed Motor Timing.(Can not changeable.)

**Connecting**



- \* **Brushless motor with the sensor;** Connect 3 motor wires and sensor cable with ESC.
- \* **Brushless motor without the sensor;** Connect 3 motor wires with ESC.

**Connecting of Sensor Cable**



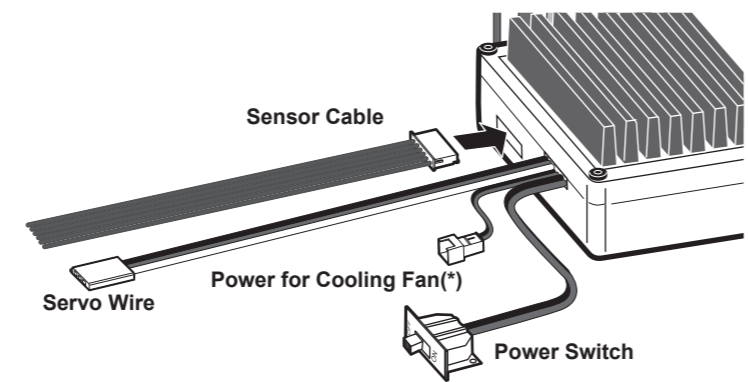
Be careful of the direction of the sensor cable, and connect the sensor cable with the motor and ESC. It may cause a damage if wrongly connected or pushed too hard.

**Setting of Transmitter**

- This ESC sets up automatically into neutral and will keep the throttle set-up in a standard with the setting listed below:
- \* Setting up throttle angle (throttle high point and brake point) for pulling and pushing to 100%
  - \* Set trim or sub-trim of the throttle in the center position 0.
  - \* Set the ABS and throttle speed settings to 'OFF' .
  - \* Re-set the Tx when you are not sure of Tx settings.
- If the Tx settings are very different from the standard settings, the motor may not run or you may not get maximum speed from the motor.  
-> See trouble shooting for reference.  
You may need to turn 'ON' the ESC again if you have to reverse the direction of the throttle on the Tx after the auto set-up.

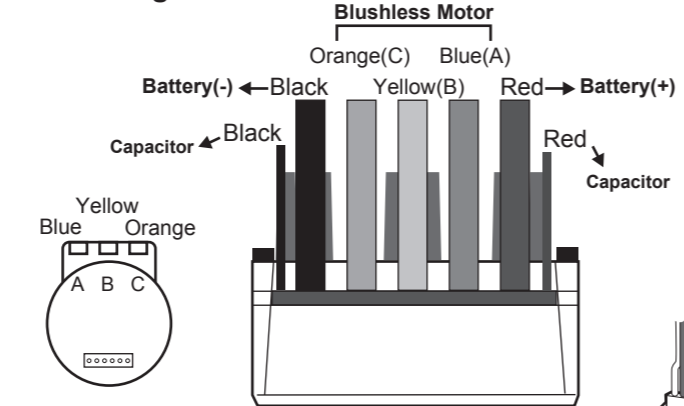
**Caution** This BLZ-350 is manufactured for surface use vehicles. \*Be sure of the connection to the Rx, servo and ESC. \*Do not use while there is a thunderstorm, rain or on wet surfaces. \*Do not use when consuming alcohol, medication or when tired. \*Keep away from small children. \*Remove batteries while not in use. \*Do not use on a crowded road.

**Attention** \*Be sure of the polarity of the batteries. \*Recommend using genuine KO connectors and optional parts. \*Turn 'ON' the Tx then the Rx and when turning 'OFF' , Rx then the Tx. \*Be careful not to touch items that can be hot during and after operation such as the motor, batteries and ESC. \*Be careful not to short-circuit the battery wires and the motor wires, etc. \*Remove the motor pinion when setting up. \*Be careful of any sharp edged parts of this product. \*Service may be rejected if disassembled and remodeled.



\*No.41005 BLZ Cooling Fan is Optional.

**Connecting of Motor Wire**

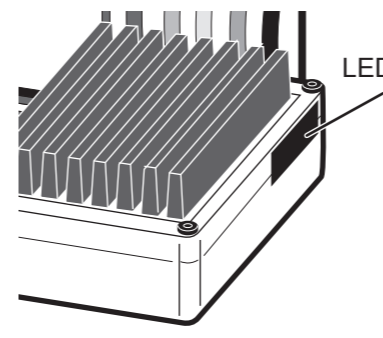


**Connecting of Servo Wire**



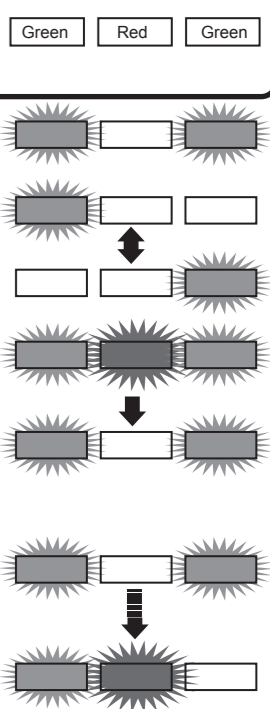
**Connect the battery** Default setting is for Lipo batteries to be used. To use a different type of battery, you will need to change the setting using the BLZ programmer (sold separately). Turn the power switch 'OFF' and connect the battery with the battery connector.

**Power switch 'ON'** First turn 'ON' the Tx and make sure the Tx is working correctly and then turn on the ESC. Otherwise the auto set-up will not work correctly.



The diagram to the left shows the location of the LED lamps installed on the side of the ESC. 3 LED lamps in order of green, red and green will be shown.

- 1 Turn the switch 'ON' and two green LED lamps as illustrated will light up and 'tone-up' melody can be heard.
- 2 Next the two green LED lamps will blink in turns as illustrated, which is an indication of receiving signal from the Rx to the ESC. \*It may take some time depending on the conditions of the circumstances and conditions around. Turn the switch 'ON' again if this takes too long.
- 3 After the auto indication is complete, a 'tone-down' melody will be heard and the middle red LED lamp will light up along with the green LED' s and the red LED will go off as illustrated. Now, auto indication is complete.



**Check the function**

**Forward (pull the throttle trigger)** Pulling the throttle trigger, the motor runs and the left green LED turns off and the red LED in the middle will start to blink slowly. The red LED will blink faster in proportion to the throttle stroke and will be fully lit at full throttle.

- > See and check the trouble shooting (1) when the red LED lamp does not light up.
- > See and check the trouble shooting (3) when the red LED lamp does not completely light up.

**Pushing the throttle trigger** Initial pushing of the throttle trigger will slow the car down or from neutral will go into reverse. (LED lamps will be lit the same as the neutral position) Return to neutral position again and push the throttle trigger and it will run in reverse.

**Reverse (push the throttle trigger)**

Pushing the throttle trigger, the motor runs and the right green LED lamp will go off first and then start blinking again slowly. It will completely light up at fully pushing the trigger.

- > See and check trouble shooting (3) when it does not completely light up.

**Trouble shooting**

- (1) **The red LED lamp does not light up when pulling the throttle trigger. (Only right green LED lamp blinks)**  
➡ Turn all switches 'OFF' and turn on again after re-setting the reverse switch of the Tx.
- (2) **LED lamp works correctly but the motor runs in the opposite direction and the function is reversed.**  
➡ Replace the orange motor connector with the blue one.
- (3) **The red LED lamp does not light on when pulling the throttle trigger.(Keeps blinking)**  
**The right green LED lamp does not completely light on when pushing the throttle trigger. (Keeps blinking)**  
➡ It seems the throttle 'High point' and the 'Brake point' may differ according to the Tx and the red LED lamp may not completely light up. In this case, reset both the High point and Brake point higher until the LED lamp lights up correctly. This may differ from Tx to Tx.
- (4) **The red LED lamp and right green LED lamp blink by turns and does not respond to the Tx.**  
➡ By any reason, Rx does not receive any Tx radio waves. Turn the switch of Tx and ESC off and turn the switches on again.

**Contact us** <http://www.kopropro.co.jp>



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