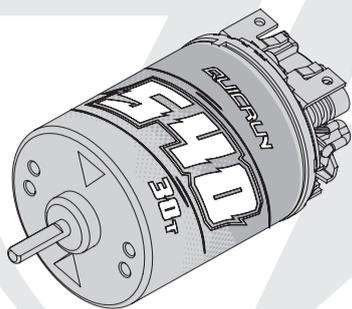


QUICRUN USER MANUAL

QUICRUN Brushed 540 & 555



Thank you for purchasing this HOBBYWING product! Any improper use may cause personal injury and damage to the product and related devices. We strongly recommend reading through this user manual before use and strictly abide by the specified operating procedures. We shall not be liable for any liability arising from the use of this product, including but not limited to reimbursement for incidental or indirect losses. We do not assume any responsibility caused by unauthorized modification of the product. We have the right to change the product design, appearance, performance and use requirements without notice.



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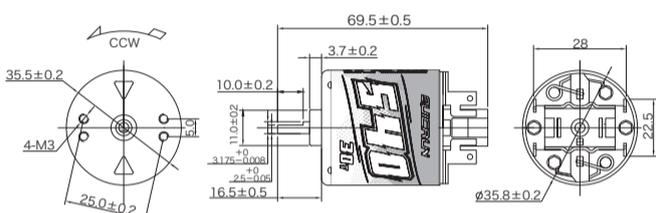
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01 Warnings

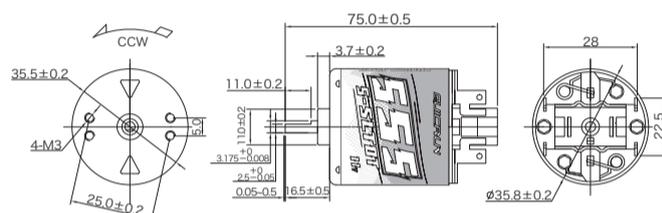
- Please carefully check power devices and manual of car chassis to ensure the power pairing is reasonable. Avoid wrong pairing to overload and damage the motor.
- Always wire up all the parts of the system carefully. If any of the connections come loose as a result of vibration, your model RC may lose control.
- Never allow the motor case to get 85 degrees Celsius (185 degrees Fahrenheit) because the motor maybe damaged by high temperature.
- If the motor stops during running, please confirm whether the carbon brush is stuck or not.

02 Specifications

Model	PN	Turns	(RPM@7.4V)	Input Voltage	Diameter/Length(mm)	Shaft Diameter/Length (mm)	Slot	Weight (W/O Wires)	Applications
QUICRUN Brushed 540-30T	30404313	30T	14000	≤ 12.6V	φ=36mm(1.42in) L=53mm(2.09in)	φ=3.175mm(0.125in) L=16.5mm(0.65in)	3	168g	1/10 On-road / Buggy / Crawler & 2WD Truck
QUICRUN Brushed 540-40T	30404314	40T	10500	≤ 12.6V	φ=36mm(1.42in) L=53mm(2.09in)	φ=3.175mm(0.125in) L=16.5mm(0.65in)	3	169g	1/10 On-road / Buggy / Crawler & 2WD Truck
QUICRUN Brushed 555-11T	30404315	11T	17000	≤ 10V	φ=36mm(1.42in) L=58.5mm(2.30in)	φ=3.175mm(0.125in) L=16.5mm(0.65in)	5	193g	1/10 Crawler / Short course truck / Monster truck
QUICRUN Brushed 555-13T	30404316	13T	14000	≤ 12.6V	φ=36mm(1.42in) L=58.5mm(2.30in)	φ=3.175mm(0.125in) L=16.5mm(0.65in)	5	193g	1/10 Crawler / Short course truck / Monster truck

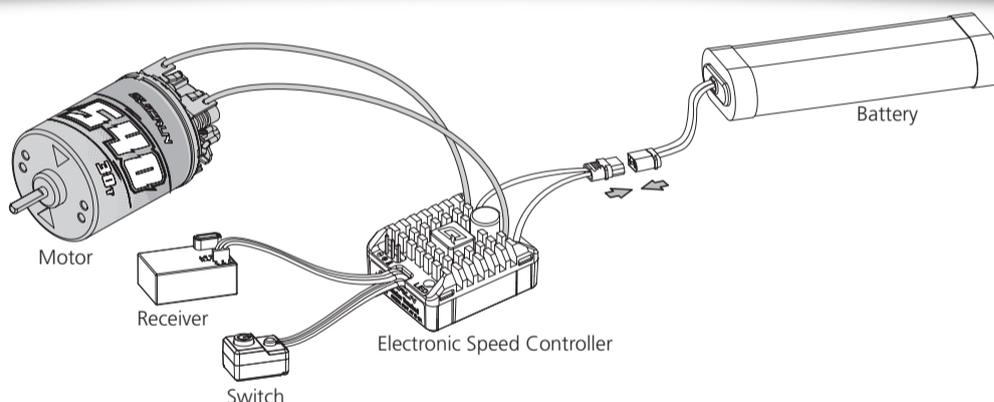


QUICRUN Brushed 540



QUICRUN Brushed 555

03 Installation & Connection



1. Installation of the motor

There are 4 motor mounting holes in M3 specification, and the mounting holes are 5mm in depth, before installing the motor on the vehicle, please carefully confirm whether the specification of the screws is appropriate according to the thickness of the motor mounting plate to avoid damage to the motor due to too long screws.

2. How to Connect the Motor to an ESC

As shown in the figure above, connect the esc with the two wires of the motor. If the motor rotation direction is incorrect, it can be adjusted by exchanging the positions of the two wires of the motor.

3. Inspection

Before powering on the esc, please check the installation and the order of all connections.

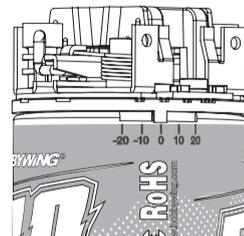
04 Timing Adjustment

As shown in the right figure, the motor has an adjustable timing range from - 20 degrees to + 20 degrees, and the default value is 0 degrees. The timing can be adjusted by loosening the two screws of the rear end plate of the motor and rotating the rear end plate.

Timing adjustment mechanism: When the motor rotation direction is CCW (counterclockwise), the effective range of timing is between 0 and + 20 degrees, that is, adjust the timing in the direction of + 20 degrees, the motor rpm will increase; When the motor rotation direction is CW (clockwise), the effective range of timing is between 0 and - 20 degrees, that is, adjust the timing in the direction of - 20 degrees, the motor rpm will increase.

Note:

1. CCW (counter clockwise) and CW (clockwise) directions are defined as the rotation direction of the motor when the output shaft of the motor faces the face.
2. Adjusting the timing will increase the rpm of the motor, so the running current will also increase. Therefore, please adjust it carefully according to the load.



05 Gearing

Reasonable selection of gear ratio is very important. Improper gear ratio may cause damage. You can select the gear ratio according to the following points!

1. The operating temperature of the motor

The motor temperature should be lower than 85 degrees Celsius (185 degrees Fahrenheit) in operation. High temperature may cause the magnets to get demagnetized, the coil to melt and short circuit, and the ESC to get damaged. A suitable gearing ratio can effectively prevent the motor from overheating.

2. The principle of selecting gear ratio

To avoid the possible damage to ESC and motor caused by the overheating, please start with a small pinion/a big FDR and check the motor temperature regularly. If the motor and ESC temperature always stays at a low level during the running, you can change a larger pinion/a lower FDR and also check the motor temperature regularly to ensure that the new FDR is suitable for your vehicle, local weather and track condition. (Note: For the safety of electric devices, please check the ESC and motor temperature regularly.)