



HOBBYWING QUICKRUN 3652 Sensorless Brushless Motor User Manual

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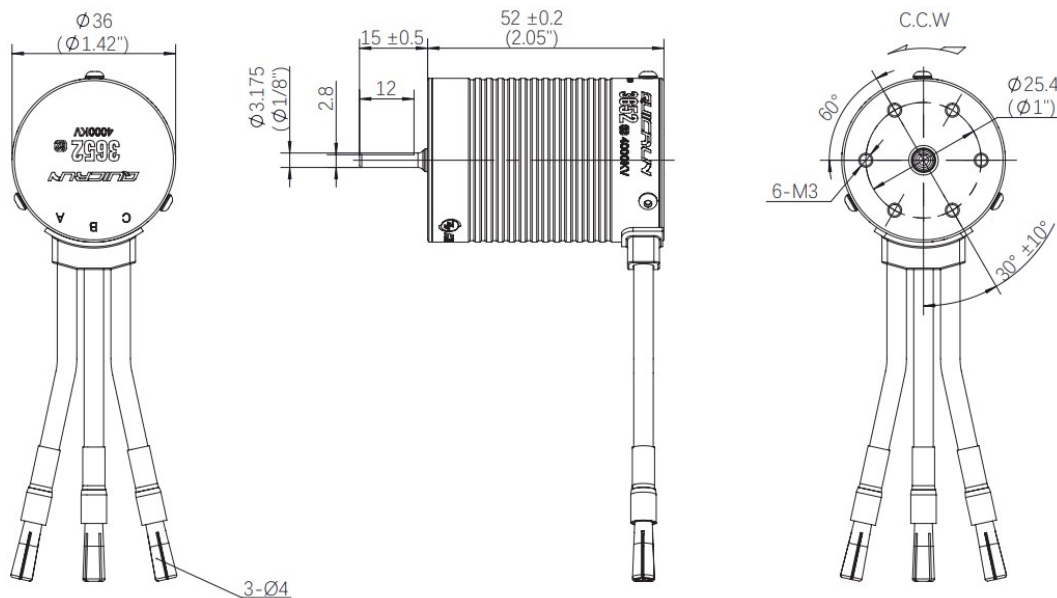
Warnings

- Please carefully check power devices and manual of car frame to ensure the power pairing is reasonable. Avoid wrong pairing to overload and damage the motor.
- Always wire up all the parts of the equipment carefully. If any of the connections come loose as a result of vibration, your model RC may lose control.
- Never apply full throttle if the pinion is not installed. Due to the extremely high RPMs without load, the motor may get damaged.
- Never allow the motor case to get 100 degrees Celsius (212 degrees Fahrenheit) because the magnets maybe demagnetized by high temperature.

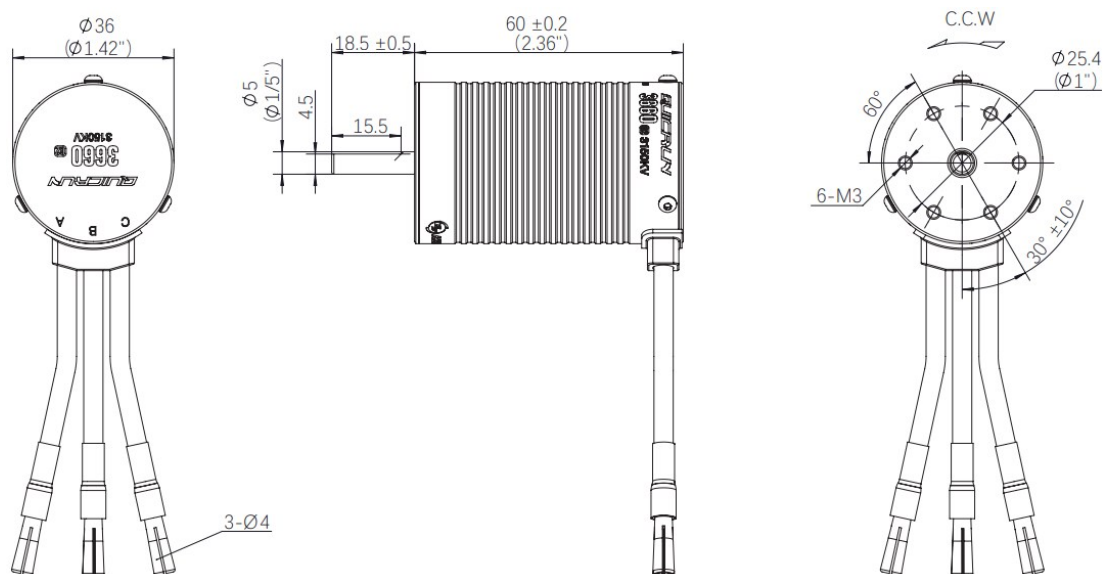
Specifications

Model	KV	Li P os	N o-l oa d C ur re nt	Diame ter/ Le ngth	Shaft D iameter / Length	Beari ng siz e (m m)	P o l e s	We igh t	Applicatio ns	
QUICRUN 3652SL 3250 KV G2	3250KV	2-3 S	4.0A					223g	1/10 On-road, Buggy, Truck (Light load)	
QUICRUN 3652SL 4000 KV G2	4000KV	2-3 S	5.3A	φ=36mm(1.42")L=52mm(2.05")	φ=3.175mm(0.13")L=15mm(0.59")	Front D13* D5*T4 Rear D13* D5*T4		224g		
QUICRUN 3652SL 5400 KV G2	5400KV	2 S	6.8A				4	224g		
QUICRUN 3660SL 3150 KV G2	3150KV	2-3 S	5.4A	φ=36mm(1.42")L=60mm(2.36")	φ=5mm(0.20")L=18.5mm(0.73")	Front D16* D5*T5 Rear D13* D5*T4		273g	1/10 Truck, Monster truck	
QUICRUN 3660SL 3700 KV G2	3700KV	2-3 S	6.5A					278g		

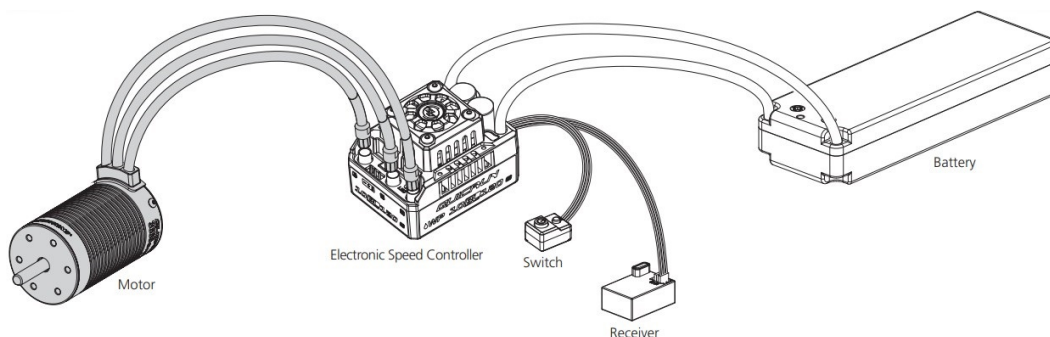
QUICRUN 3652SL-G2



QUICRUN 3660SL-G2



Installation & Connection



1. Install the motor

There are 6 motor mounting holes in M3 specification, and the mounting holes are 5.5mm 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

There is no strict wire sequence requirement for the connection between the motor and the esc, the # A/# B/# C three wires of the motor and esc can be connected at will, if the motor rotation in the opposite direction, you can exchange any two wires.

3. Inspection

Before power on the esc, please check the reliability of the motor installation and the correctness of all connections.

Gearing

Reasonable selection of gear ratio is very important. Improper gear ratio may bring you great loss. You can select the gear ratio according to the following points!

1. The running temperature of the motor

The motor temperature should be lower than 100 degrees Celsius (212 degrees Fahrenheit) in operation. Because high temperature may cause the magnets to get demagnetized, the coil to get melt and short circuited, and the ESC to get damaged. A suitable gearing ratio can effectively prevent the motor from overheating.

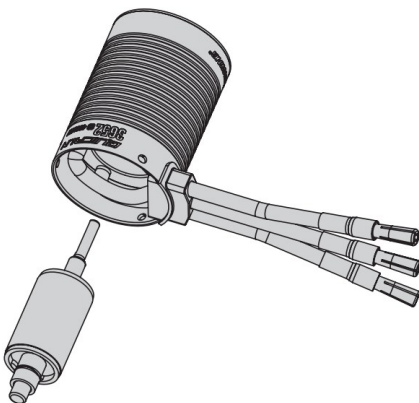
2. The principle of selecting gear ratio

To avoid the possible damage to ESC and motor caused by the overheat, please start with a small pinion/a big FDR and check the motor temperature regularly. If the motor and ESC temperature always stay at a low level during the running, you can change a big pinion/a low 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.)

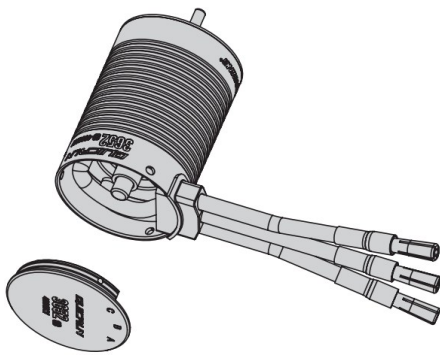
Assembly and Disassembly

In order to make the motor have longer service life and higher efficiency, we suggest to regularly check the bearing and clean the dirt in the motor. The specific time depends on the frequency of using the motor and the site conditions. When installing, please follow the steps in the following assembly drawing; when disassembling, follow the reverse steps.

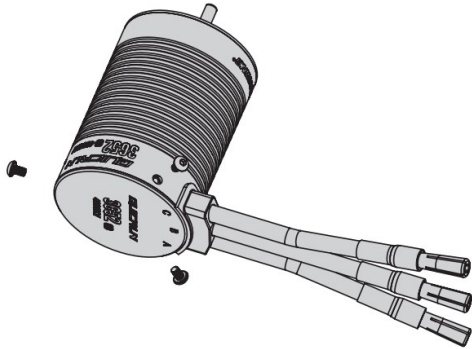
1. Mount the motor rotor



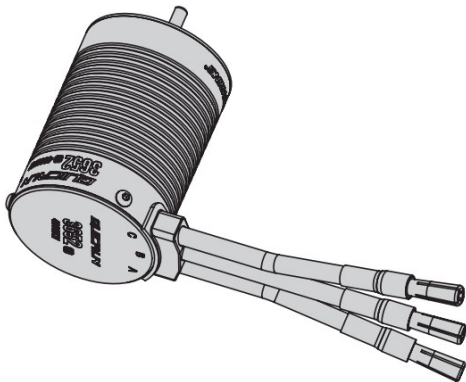
2. Mount the rear end bell set



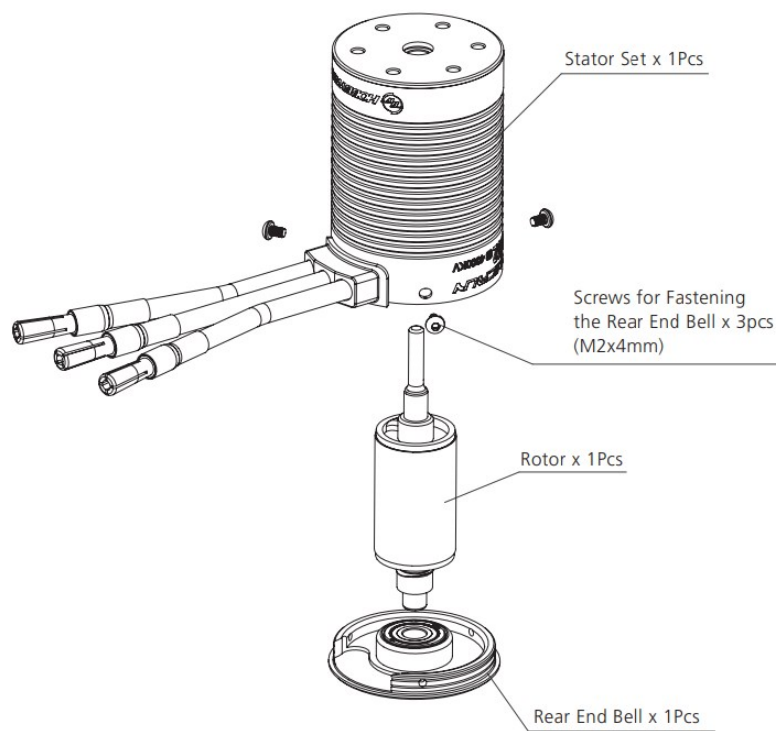
3. Mount screws for fastening the rear end bell



4. Picture of the assembled motor



Parts List





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3652, QUICRUN 3660, QUICRUN 3652, QUICRUN 3652 Sensorless Brushless Motor, Sensorless Brushless Motor, Brushless Motor, Motor