

- On the premise of improving the performance, the design of 4268SD G3 is optimized which extremely reduce the weight of motor. The weight of 1900KV / 2200KV is 20g / 45g lighter than peers. The light motor is convenient for the driver to adjust the balance performance of the vehicle.

03 Specifications

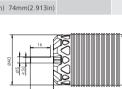
PN	Model	KV (No-load)	LiPo	Internal resistance	No-load current	Outer diameter/Length	Bearing size(mm)	Shaft diameter/ Exposed shaft length	Pole	Weight	Application
30401906	XERUN-4268SD-1900KV-G3-OffRoad	1900KV	2-6s	0.0075 Ω	4A					315g	1/8 Off-load
30401907	XERUN-4268SD-2200KV-G3-OffRoad	2200KV	2-6s	0.0069 Q	4.1A	67.8mm (2.669in)				285g	178 OTI-10au
30401908	XERUN-4268SD-2000KV-G3-OnRoad	2000KV	2-6s	0.0069 Q	4.2A		Front:D16*D5*T5		4	285g	1/8 On-road
30401910	XERUN-4268SD-2400KV-G3-OnRoad	2400KV	2-4s	0.0059 Ω	4.3A		Rear:D11*D5*T5			276g	
30401909	XERUN-4268SD-2800KV-G3-OnRoad	2800KV	2-4s	0.0035 Ω	6.1A					300g	
30405001	XERUN-4274SD-2250KV-G3	2250KV	2-6s	0.0037 Ω	5A					354g	1/8 Truck, Monster truc
	4-M4	Ţ., +-	-				<u>S</u>		ſ	Ø42 24.6	



XERUN 4268/4274

<u>85</u> 450	16			
	18.50		67.80	

XERUN 4268

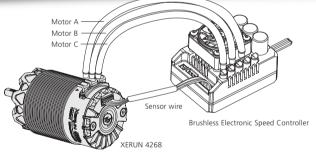


XERUN 4274



M3*10

04 Installation & Connection



1. Install the motor

The motor mounting screw specifications are two groups of M3 and two groups of M4. The motor screw hole can be locked into the depth of 5.5mm. Before installing the motor on the vehicle, please carefully confirm whether the specification of the matching screw is appropriate, so as to avoid damaging the motor by using too long or too thick screw. Generally, it is recommended to use m3 / M4 screw with length not longer than 8mm, which is determined according to the thickness of frame motor mounting base

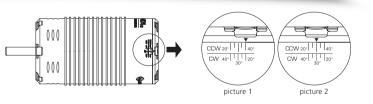
2. Motor connection

• When welding / connecting the motor and the electronic speed controller (ESC), please pay attention to the ESC marking to ensure that the terminals on the ESC and the motor are one-to-one, that is, wire A of the ESC matches wire A of the motor, wire B of the ESC matches wire B of the motor, wire C of the ESC matches wire C of the motor. Make sure the sensor wire is clean and undamaged, and pay attention to the orientation of the sensor wire. Connect the sensor wire to the terminal of the motor and ESC in the correct direction.

3. Inspection Before power on the remote control vehicle, please check the reliability of the motor installation and the correctness of all connections.

05 Timing Adjustment

- 1. With the motor direction set to CCW, take the graduation/value after "CCW" on the motor case as the starting point when adjusting the timing. With the reversed triangle pointing at a value /graduation,
- the smaller/bigger the value, the smaller/bigger the timing. The timing is 40 degrees in picture 1. 2. With the motor direction set to CW, take the graduation/value after "CW" on the motor case as the starting point when adjusting the timing. (With the reversed triangle pointing at a value/graduation, the smaller/bigger the value, the smaller/bigger the timing. The timing is 20 degrees in picture 1.
- 3. The motor timing is 30 degrees by default (as shown in picture 2). The motor timing should be within 30 to 40 degrees if you want to activate the Turbo timing. And the timing can be within 20 to 40 degrees if you have no intention to activate the Turbo timing



06 Gearing

- Reasonable selection of gear ratio is very important. Improper gear ratio may bring you great loss. Please according to the following points to select the correct gear ratio!
- 1. The working 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 operation, 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.)

$\mathbf{07}$ 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 Parts List

