



540 Sensorless Brushless Motor

SINTER NEODYMIUM ROTOR
SENSORELESS VERSION

USERMANUEL

Thanks for your purchasing of RC OMG's 540Y Series Sensorless Brushless Motor.
RC OMG Co.,Ltd. is contributed to provide the cost-performance key components for the R/C Hobbist.
Please read the manuel carefully before your using of RC OMG's Motor and ESC.

Features

- ❑ High Power 4 Poles Sensorless Brushless Motor
- ❑ Sinter Neodymium Magnet
- ❑ Low Resistance,
- ❑ Precision balanced rotor,
- ❑ Completely Rebuildable
- ❑ Aluminum Heatsink Can
- ❑ 12AWG Connection Wire
- ❑ Anodized CNC Machined Plates

Warning Notes

Do not use aggressive advanced timing speed-control profiles with 540 Y series motors!
Because of it's a fixed timing and Precision Sensored motor, such profiles are not required to gain same performance as normal motors (with extreme speed-control timing advance) and with 540 Series Motor such profiles only result in higher motor temperature but not higher performance!
Not suitable for children who is under 14 years!!!
Keep the product from the reach of children who is under 14-year old.



Pay close attention to the following points, as they can destroy the product and be out of the scope of your warranty.
Nonobservance of these points can lead to property damage, personal injuries!

- ◆ Never leave the product unsupervised while it is switched on, in use or connected with a power source.
If a defect occurs, it could set fire to the product or the surroundings.
- ◆ Incorrect connections or connections with reversed polarity of the product should be prohibited.
- ◆ All wires and connections should be well insulated and short-circuits can possibly destroy the product.
Water, oil or fuels or other electroconductive liquids could contain minerals may be harmful for electronic circuits.
- ◆ If these things come in contacts with the product, you should stop the use of your product immediately and let it dry carefully.
- ◆ Do not overtighten the motor screws. Damaged threads are not covered under warranty!
- ◆ Do not overload the motor due to wrong or too long gear ratios.
- ◆ Do not apply full throttle if the motor is not installed. Due to the extremely high RPMs without load, the motor can be damaged.
Wire up all the parts of the equipment carefully. The loose connections will lead to vibration, then you could loose control over your model.
- ◆ Do not solder longer then 5 seconds per soldering joint when replacing the power wires to prevent possible damage to the product due to overheating of the components. Do use a high power soldering station with at least 60W for soldering.
- ◆ The manufacturer can not be held responsible for damages, which are a result of non-observance of the warning notes and security advices.

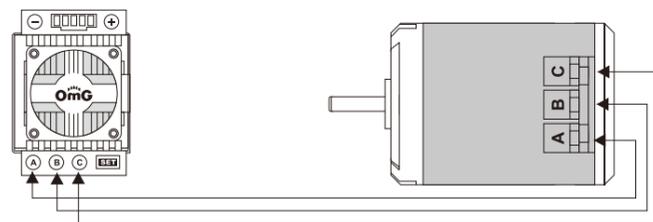
Warranty

Due to the nature of this product, this motor is warranted to the original purchaser to be free from defects in material and workmanship at the time of purchase. Motors that have been mishandled, abused, used incorrectly, use for an application other than intended or damaged by the used are not covered under warranty. RC OMG Co., Ltd. is not liable for any loss or damage, whether direct or indirect, incidental or consequential, or from any special situation, arising from the use, misuse, or abuse of this product.

Specification

Item No.	Continuous Current(A)	Applicable Voltage(V)	Resistance	No-Load Current(A)	Poles	Winding Wire	Size	Weught(g.)	Motor Type
OMG-540-5200KV-3T-SL	94A	9. 6V	0. 0051	3. 7A	4	Delta	36. 1X52. 1mm	180	Sensorless
OMG-540-4300KV-3.5T-SL	75A	12V	0. 0075	2. 7A	4	Delta	36. 1X52. 1mm	180	Sensorless
OMG-540-3900KV-4T-SL	69A	13V	0. 0081	2. 0A	4	Delta	36. 1X52. 1mm	180	Sensorless
OMG-540-3000KV-5T-SL	56A	16V	0. 0126	1. 4A	4	Delta	36. 1X52. 1mm	180	Sensorless
OMG-540-2350KV-3.5Y-SL	41A	22V	0. 0182	1. 2A	4	Star	36. 1X52. 1mm	180	Sensorless

Wiring Diagram



Installation & Connections

POWER WIRES: Connect correct wire A - A , B - B, C - C wire to ESC.
Wrong connection will lead to damage to motor and even causing fire. If you care about the soldering quality and correct soldering wire sequence, please contact your local dealer.

- Install the motor in the model.
Caution: The maximum length of the motor screws shall not exceed 8mm.
- Connect the power wires of the speedcontrol and the motor.
Make sure, that the sequence is correct by checking the color code and the letters:
- MOTOR.A = blue wire
- MOTOR.B = yellow wire
- MOTOR.C = orange wire
- Finally check all the connections before using the motor.



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