

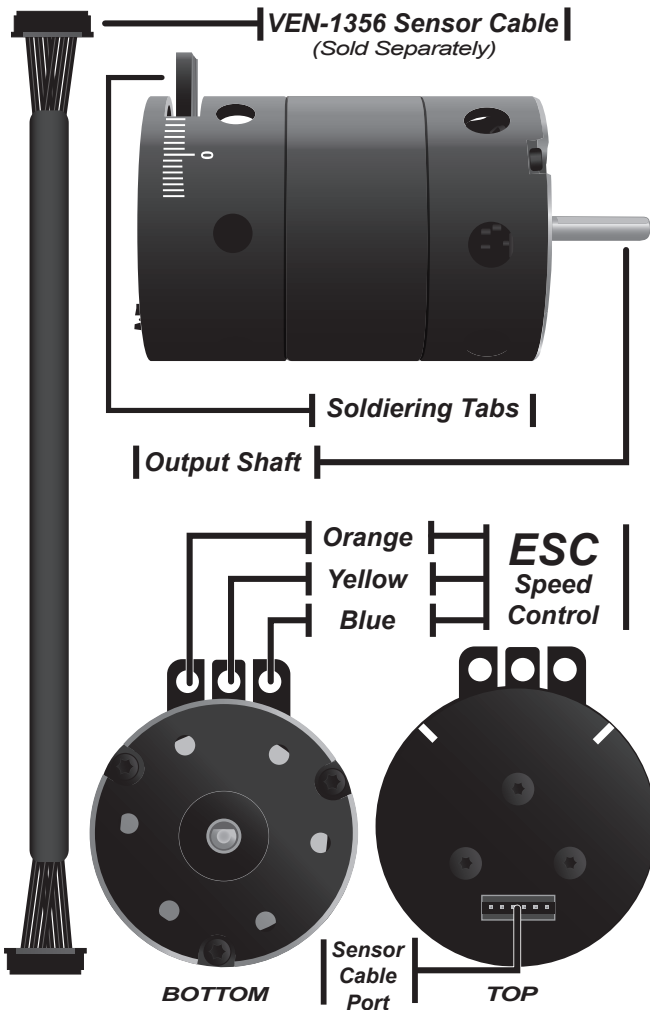
V540 VENOM™ INSTRUCTIONS

Thank you for purchasing the Venom™ V540 Brushless Motor. This motor was designed for power and performance thanks to its well ventilated can and sensor capabilities. This Motor has bearings that are serviceable and a replaceable rotor.

WARNING

- Never leave the motor unattended while it is ON or plugged in. If the motor overheats there is the potential for fire.
- Always check the connections of the wires and cables to ensure correct polarity.
- Make sure all wires and cables are well insulated to avoid short circuiting.
- Avoid contact with water and any other liquids. If this occurs, stop the use of the product and set out to dry.
- Never solder on the PCB or other components.
- **DO NOT** over tighten the hex screws, this may lead to stripping them. Warranty does not cover the screws.
- Check to make sure you have the correct gear ratio and never overload the motor.
- **DO NOT APPLY FULL THROTTLE** if the motor has not been installed. The high RPM of these motor can possibly damage them.
- Make sure all connections and screws have been fastened to avoid an out of control model.
- Always use a high power soldering unit and avoid prolonged soldering to avoid damage to the different components of the motor.

PART KEY



INSTALLATION

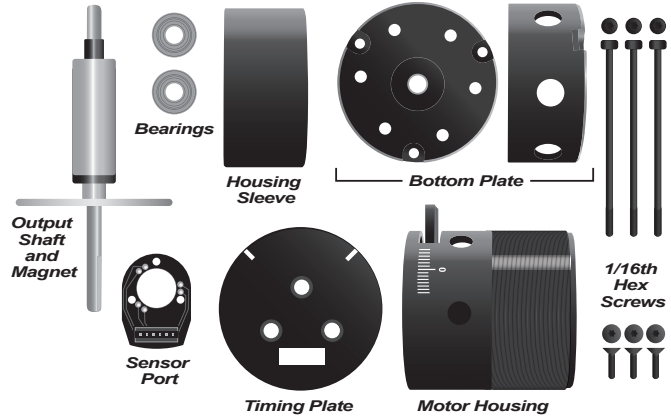
Sensor Cable VEN-1356 (Sold Separately):

A Bi-Directional Sensor Cable must be used with the V540 Motor at all times or else the motor will not work. Plug the Sensor Cable into the Motor Sensor Cable Port and also into the desired ESC (Speed control). (Refer to PART KEY Drawing below)

Power Wires: To connect the correct power wires that will provide power to the Venom™ V540, they will need to be soldered accordingly. (Refer to PART KEY Drawing below)

- 1) Install the V540 into the model
- 2) Connect the Sensor Cable to both the Venom™ V540 Motor and the desired ESC.
- 3) Connect the Orange, Yellow, Blue Power Wires to the ESC. **NOTE:** Check for correct polarity to avoid damaging the Motor and the ESC.
- 4) Make sure all connections are correct before running the model.

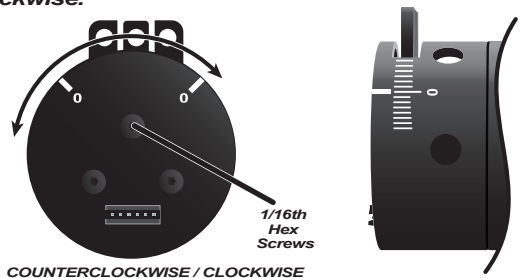
DISASSEMBLED



Disassembling the Motor:

- 1) Remove all three Hex screws at the bottom of the motor with a 1/16th hex screw driver.
- 2) Remove the bottom plate from the Motor Housing. Remove or oil the bearing located in the plate where the out-put shaft has been removed.
- 3) Carefully remove the Output Shaft and Magnet.
- 4) Remove three smaller hex screws from the top of the Timing Plate.
- 5) Remove Sensor Port by turning it clockwise and lifting out of the Motor Housing hole.
- 6) Located inside the Sensor Port slot inside the Motor Housing is the 2nd bearing to be oiled or removed.

The timing on the Venom™ V540 brushless motor is extremely easy to adjust. You will need to loosen the three 1/16th hex screws that are located at the top of the motor near the Sensor Cable Port. Grip the top and turn clockwise to advance the timing. (This adjustment applies when output shaft is set to turn counter clockwise). The opposite is true to delay/retard timing. The rotation direction of the motor can be changed by switching any two of the three power wires. The effect of advancing the timing is to make slightly more power from the motor. The down side is increased heat and less run time. There is a balance to be found in adjusting the timing this is just one more tool in finding the balance for your set up. **Note: if the motor is run in a counter clockwise direction the timing advance will be clockwise.**



NOTE: This is the manufacturer default setting

TIMING

Venom™ warrants this product to be free of material and workmanship defects when new. If a component is defective or was not correctly made, Venom™ will, at its sole discretion, repair or replace it free of charge within 90 days from date of purchase. If you believe a defect became evident only after operation, please contact us to discuss the situation.

A dated & itemized sales receipt must accompany any product returned for warranty work. Before returning any product, please contact Venom™ Customer Service at 800-705-0620 to receive a Return Merchandise Authorization Number (RMA#).

Venom™ Limited Warranty

The V540 Brushless Motor is a unique brushless design that will need to be geared differently than any other brushed motor. It is very important that the gear ratio recommendations are correct. Over gearing your V540 Brushless Motor may result in overheating and the unexpected shutdown of the ESC. Each R/C model should have this information inside of the manual that it came with.

GEARING

Guarantee

We guarantee this product to be free of manufacturing faults and material defects. This product has been checked and adjusted individually before leaving the manufacturer. Please contact your local hobby shop for replacement parts and technical support or contact Venom™ Customer Service at 800.705.0620 or customerservice@venom-group.com.

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Venom™ GUARANTEE

SPEC GUIDE

V540 BL Motor	VEN-1325 3.5r	VEN-1326 4.5r	VEN-1327 5.5r	VEN-1328 6.5r	VEN-1329 7.5r	VEN-1330 8.5r	VEN-1331 9.5r	VEN-1332 10.5r	VEN-1333 13.5r	VEN-1338 17.5r	VEN-1334 18.5r
IFMAR Spec	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
NORMAL VOLTS	6v	7.2v	7.2v	7.2v	7.2v	7.2v	7.2v	7.2v	7.2v	7.2v	7.2v
VOLTS RANGE	4.8 - 7.4	4.8 - 7.4	4.8 - 7.4	4.8 - 7.4	4.8 - 7.4	4.8 - 7.4	4.8 - 7.4	4.8 - 7.4	4.8 - 7.4	4.8 - 7.4	4.8 - 7.4
KV	10200	8500	7000	6200	5500	4600	4400	4000	3200	2400	2200
Max. power Amps 7.2v	130A	120A	95A	85A	75A	60A	55A	50A	45A	35A	30A
Max. Efficiency Amps 7.2v	76A	67A	54A	49A	43A	35A	32A	29A	26A	19A	14A
Max. power (W) @ 7.2v	550W	480W	390W	350W	310W	250W	230W	210W	185W	140W	100W
Max. power (W) @ 6v	400W	360W	300W	270W	200W	175W	160W	160W	145W	115W	90W
Max. power (W) @ 4.8v	305W	275W	225W	200W	180W	145W	130W	120W	105W	80W	65W
Max. Length	70mm	70mm	70mm	70mm	70mm	70mm	70mm	70mm	70mm	70mm	70mm
Max. Can Length	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
Max. Dia.	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
Weight	156g	156g	156g	156g	156g	156g	156g	156g	156g	156g	156g
Recommended Gear Box Configurations w/ 6 cells	1:10 TC 1:8.5 - 1:12	1:10 TC 1:7 - 1:10 4WD 1:13.5 - 1:15	1:10 TC 1:6 - 1:9 2WD Truck 1:12 - 1:13.5	Off Road	1:10 TC 1:5 - 1:7.5 2WD, Truck 1:10.5 - 1:13	1:10 TC 1:4 - 1:6 Off-Road 1:7.5 - 1:10	1/10 EP Touring 1:6.8-1:8	1:10 TC 1:4 - 1:6 Off-Road 1:7.5 - 1:10	1/10 On Road 1:5-1:6.8	1/10 On Road 1:5-1:6	1/10 Rock- Crawler
Integrated Cooling Fan	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Comparable Stock Motor							19T	21T	23T	27T	55T

Venom Group International
600 West Buckles Rd.
Hayden, ID 83835

Australia
PO Box 7325
Alexandria NSW 2015
Australia

Customer Service
800.705.0620
customerservice@venom-group.com

WWW.VENOM-GROUP.COM



CONTACT INFO