

# 540



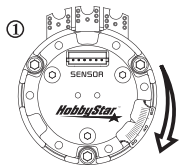
## 540 SENSORED MOTOR BREAKTHROUGH 1/10 SCALE

### Features:

- ▶ Sensor -based for Excellent Torque and Low-Speed Driveability
- ▶ High RPM precision bearings
- ▶ Adjustable Timing
- ▶ Compatible with any Sensored/ Sensorless ESC
- ▶ CNC Machined Billet T6 Aluminum Heatsink Can
- ▶ High Purity Copper Windings Maximize Conductivity
- ▶ High Power Solder Tabs
- ▶ Removable/Replaceable Rotor
- ▶ Powerful Sintered Neodymium Magnet
- ▶ Precision Engineered for Maximum Energy Conversion
- ▶ Meet IFMAR /ROAR rules

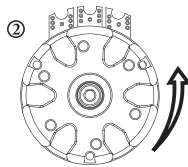
### Timing Adjustment:

- A. Loosen the three screws at the back of the motor.
- B. Turn sensor cover to desired position.
- C. Tighten the three screws well.



① Less timing (lower number), reduced torque and RPM, less power consumption.

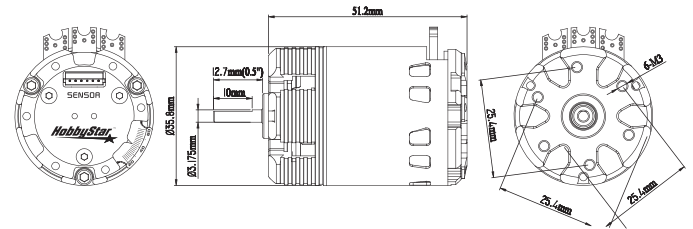
② More timing (higher number), increased torque and RPM, more power consumption.



- Increase timing: motor temperatures increase, run-time is reduced.
  - Adjust temperature in small amounts and monitor temps.
  - Timing adjustment requires fine-tuning, make adjustments carefully.
- ▲ If sensor cover screws come loose during operation motor damage may occur, please be sure to tighten screws securely.

### Dimensions:

#### 540 Product size



At the top of the motor

The side

At the bottom of the motor

### Application:

Motor	Touring Zero timing	Touring Turbo	1/10 Buggy
3.5T	8.0 - 8.5	not suggested	not suggested
4.5T	7.3 - 7.8	7.8 - 8.9	not suggested
5.5T	6.4 - 7.0	7.0 - 8.4	not suggested
6.5T	6.2 - 6.8	7.0 - 8.2	11.0 - 12.5
7.5T	6.0 - 6.6	7.0 - 8.0	10.5 - 12.0
8.5T	5.8 - 6.4	7.0 - 7.8	10.0 - 11.5
9.5T	5.5 - 6.5	6.8 - 7.6	9.0 - 10.5
10.5T	5.2 - 6.4	6.2 large track, 7.0 small track	8.0 - 9.5
11.5T	5.0 - 6.3	6.0 large track, 6.8 small track	8.0 - 9.0
13.5T	4.8 - 6.0	5.7 large track, 6.6 small track	not suggested
17.5T	4.5 - 5.8	5.4 large track, 6.0 small track	not suggested
21.5T	3.8 - 4.3	4.8 large track, 5.2 small track	not suggested

### Specifications:

Product	Design	Size	I/P	Max Amps	Rotor Poles	IO (7-40)	Resistance	Turns	Watts	Rotor (mm)	KV (rev/min)	Weight (g)	Shaft Diameter (Inches)	TYPE
3.5T	Sensored	540	1-2S	130A	2	9.1A	0.0026	3.5	600	ϕ12.5xϕ5	9,100	178	ϕ3.175	MODIFIED
4.5T	Sensored	540	1-2S	108A	2	6.9A	0.0042	4.5	490	ϕ12.5xϕ5	7,620	178	ϕ3.175	MODIFIED
5.5T	Sensored	540	1-2S	100A	2	5.8A	0.0061	5.5	430	ϕ12.5xϕ5	6,450	178	ϕ3.175	MODIFIED
6.5T	Sensored	540	1-2S	94A	2	4.1A	0.0087	6.5	390	ϕ12.5xϕ5	5,350	178	ϕ3.175	MODIFIED
7.5T	Sensored	540	1-2S	86A	2	3.5A	0.0104	7.5	360	ϕ12.5xϕ5	4,700	178	ϕ3.175	MODIFIED
8.5T	Sensored	540	1-3S	80A	2	3.2A	0.0138	8.5	340	ϕ12.5xϕ5	4,100	178	ϕ3.175	MODIFIED
9.5T	Sensored	540	1-3S	70A	2	2.7A	0.0165	9.5	290	ϕ12.5xϕ5	3,700	178	ϕ3.175	MODIFIED
10.5T	Sensored	540	1-3S	63A	2	1.9A	0.0208	10.5	230	ϕ12.5xϕ5	3,450	178	ϕ3.175	MODIFIED
11.5T	Sensored	540	1-3S	56A	2	1.8A	0.0258	11.5	220	ϕ12.5xϕ5	3,200	178	ϕ3.175	MODIFIED
13.5T	Sensored	540	1-3S	49A	2	1.6A	0.0361	13.5	190	ϕ12.5xϕ5	2,860	178	ϕ3.175	MODIFIED
10.5T	Sensored	540	1-3S	63A	2	1.9A	0.0208	10.5	230	ϕ12.5xϕ7.12	3,600	178	ϕ3.175	SPIC
13.5T	Sensored	540	1-3S	49A	2	1.6A	0.0361	13.5	190	ϕ12.5xϕ7.12	3,050	178	ϕ3.175	SLIPER STOCK
17.5T	Sensored	540	1-3S	34A	2	1.1A	0.0514	17.5	130	ϕ12.5xϕ7.12	2,200	178	ϕ3.175	STOCK
21.5T	Sensored	540	1-3S	28A	2	0.9A	0.0875	21.5	100	ϕ12.5xϕ7.12	1,760	178	ϕ3.175	SPIC