

GEARING CHART FOR CASTLE 1/10TH SCALE MOTORS

All motors can be used with either Sidewinder Sv2, Sidewinder 3, Sidewinder SCT, Mamba Max Pro, or Mamba Max SCT except for 1415 which is for use only with Mamba Max Pro, and Mamba Max SCT.

The following are the only setups approved by Castle Creations for the vehicles listed. Any motor/vehicle/battery combinations that are not listed on this chart are NOT recommended setups and will NOT be covered under warranty. Please contact Castle Creations technical support if you have any questions regarding your setup.

2WD SC TRUCKS (4 - 5 lbs)		SC10™ / RC10SC5M™	Slash™	Losi 22 SCT™	Circuit
1406 SERIES	Max Cells	87T SPUR	90T SPUR	86T SPUR	87T SPUR
4600KV	2S LiPo 6-7 NiMH	12T - 16T	12T - 18T	12T - 16T	12T - 16T
5700KV	2S LiPo 6-7 NiMH	12T - 15T	12T - 16T	12T - 15T	12T - 15T
1410 SERIES		87T SPUR	90T SPUR	86T SPUR	87T SPUR
3800KV	2S LiPo 6-7 NiMH	14T - 18T	14T - 19T	14T - 18T	14T - 17T
2WD/4WD SC TRUCKS (5 - 6.5 lbs)		Slash™	Ruckus™ 2WD	Hyper 10SC™	Torment™ 2WD
1410 SERIES	Max Cells	54T SPUR	87T SPUR	42T SPUR	87T SPUR
3800KV	2S LiPo 6-7 NiMH	11T - 15T	10T - 14T	10T - 13T	10T - 13T
1415 SERIES		54T SPUR	87T SPUR	42T SPUR	87T SPUR
2400KV	4S LiPo	10T - 16T	10T - 14T	10T - 13T	10T - 13T
NOTE: For use only with Mamba Max Pro or Mamba Max Pro SCT. Do not use 1415 motors with Sidewinder Sv2, Sidewinder 3, or Sidewinder SCT.					
		SC10 4X4™**	Ten-SCTE™	ProSC™	4WD Circuit, Ruckus™ and Torment™
1410 SERIES	Max Cells	62T SPUR	40T SPUR	42T SPUR	45T SPUR
3800KV	2S LiPo 6-7 NiMH	11T - 14T	10T - 13T	12T - 14T	10T - 13T
1415 SERIES		62T SPUR	40T SPUR	42T SPUR	45T SPUR
2400KV	4S LiPo	11T - 15T	10T - 16T	N/A	10T - 14T
2WD BUGGIES (2.5 - 4 lbs)		RC10B4™ /B5M™	Losi 22™	Bandit™	Kyosho RB6™
1406 SERIES	Max Cells	87 SPUR	88T SPUR	90T SPUR	82T SPUR
4600KV	3S LiPo 10 NiMH	12T - 20T	12T - 20T	12T - 18T	12T - 18T
5700KV	3S LiPo 10 NiMH	12T - 18T	12T - 18T	12T - 16T	12T - 15T
6900KV	2S LiPo 6-7 NiMH	12T OR LESS	12T OR LESS	12T OR LESS	12T OR LESS
7700KV	2S LiPo 6-7 NiMH	12T OR LESS	12T OR LESS	12T OR LESS	12T OR LESS
1410 SERIES		87T SPUR	88T SPUR	90T SPUR	82T SPUR
3800KV	3S LiPo 10 NiMH	12T - 20T	12T - 20T	12T - 20T	12T - 18T

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(Continued from the other side)

4WD BUGGIES (3 - 4 lbs)		RC10B44/B44.1™	Losi 22-4™	DURANGO™	KYOSHO™ ZX-6
1406 SERIES	Max Cells	87T SPUR	92/94T SPUR	87T SPUR	LARGEST
4600KV	3S LiPo 10 NiMH	14T - 20T	14T - 22T	14T - 20T	14T - 20T
5700KV	3S LiPo 10 NiMH	14T - 18T	14T - 20T	14T - 18T	14T - 18T
1410 Series	Max Cells	87T SPUR	92/94T SPUR	87T SPUR	LARGEST
3800KV	3S LiPo 10 NiMH	14T - 20T	14T - 22T	14T - 20T	14T - 20T
2WD STADIUM TRUCKS (3 - 4 lbs)		RC10T4™ /T5M™	Losi XXX-T™ /22T™	RUSTLER™	Kyosho RT6™
1406 SERIES	Max Cells	87T SPUR	88T SPUR	90T SPUR	82T SPUR
4600KV	3S LiPo 10 NiMH	12T - 18T	12T - 18T	12T - 18T	12T - 17T
5700KV	3S LiPo 10 NiMH	12T - 16T	12T - 16T	12T - 16T	12T - 15T
6900KV	2S LiPo 6-7 NiMH	12T OR LESS	12T OR LESS	12T OR LESS	12T OR LESS
7700KV	2S LiPo 6-7 NiMH	12T OR LESS	12T OR LESS	12T OR LESS	12T OR LESS
1410 SERIES	Max Cells	87T SPUR	88T SPUR	90T SPUR	82T SPUR
3800KV	3S LiPo 10 NiMH	12T - 20T	12T - 20T	12T - 19T	12T - 18T

*Spur gears are the largest known. If larger gears are available, use them.

**SC10 4x4 uses either 32P or 48P gears. 32P are referenced.

SET-UP GUIDE FOR ALL CASTLE CREATIONS 1/10TH SCALE CAR AND TRUCK BRUSHLESS POWER SYSTEMS

Motor gearing is a recommended starting point ONLY. Always start with the smallest pinion and largest spur available for your application. Pinion and spur gear sizes refer to tooth count. The pinion is the small gear on the motor and the spur is the large one attached to the car.

Always check your motor temperature frequently on the first run after changing the gearing, motor or increasing battery voltage! Never let the motor get above 180°F. Use an infrared temperature gun to monitor motor temps.

If the motor starts to get close to 180° reduce the pinion size, increase the spur size, or reduce the pack voltage.



A WORD ABOUT BATTERIES AND CONNECTORS

As with any extremely high powered electric power system, the primary limitations to ultimate vehicle performance are the batteries and connectors. Use the best batteries and connectors that you can find. The better the batteries, the more punch you'll have!

- Recommended capacity for 1/10th scale vehicles is 5000mah+. Do not use 20C continuous discharge batteries. We recommend 30C continuous discharge or higher for 1/10th scale vehicles (or high quality 25C batteries such as Traxxas® Power Cells).
- Poor quality battery connectors can be a roadblock to performance. Avoid the common "white plastic" connectors commonly seen on many battery packs. A fast brushless setup will draw many times the power that these connectors can safely handle. Invest in connector sets made for high powered electric systems such as our CC Bullets, Castle Connectors, Traxxas® TRX® connectors, or Deans® Ultra plugs.

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