

GEARING CHART FOR CASTLE 1:10 SCALE MOTORS

All motors can be used with Sidewinder 3, Sidewinder 4, Sidewinder SCT or Mamba X except for 1415 which is for use only with Mamba X and Sidewinder 4.

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)		Associated SC10™ / RC10SC5M™	Traxxas Slash™	Losi 22 SCT™	ECX 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	Max Cells	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)		Traxxas Slash™ 4X4	ECX Ruckus™ 2WD	Associated SC10 4X4™*	Losi Ten-SCTE™
1410 SERIES	Max Cells	54T SPUR	87T SPUR	62T SPUR	40T SPUR
3800Kv	2S LiPo 6-7 NiMH	11T - 15T	10T - 14T	11T - 14T	10T - 13T
1415 SERIES	Max Cells	54T SPUR	87T SPUR	62T SPUR	40T SPUR
2400Kv	4S LiPo	10T - 16T	10T - 14T	11T - 15T	10T - 16T
2WD/4WD SC TRUCKS (5 - 6.5 lbs) - CONT.		Associated ProSC™		ECX 4WD Circuit™, Ruckus™, and Torment™	
1410 SERIES	Max Cells	42T SPUR		45T SPUR	
3800Kv	2S LiPo 6-7 NiMH	12T - 14T		10T - 13T	
1415 SERIES	Max Cells	42T SPUR		45T SPUR	
2400Kv	4S LiPo	N/A		10T - 14T	
2WD BUGGIES (2.5 - 4 lbs)		Associated RC10B4™ / B5M™	Losi 22™	Traxxas 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	Max Cells	87T SPUR	88T SPUR	90T SPUR	82T SPUR
3800Kv	3S LiPo 10 NiMH	12T - 20T	12T - 20T	12T - 20T	12T - 18T
4WD BUGGIES (3 - 4 lbs)		Associated RC10B44™	Losi 22-4™	Durango™	Kyosho ZX-6™
1406 SERIES	Max Cells	84T SPUR	86T SPUR	87T SPUR	78T SPUR
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)		Associated RC10T4™ / T5M™	Losi 22T™	Traxxas 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
2WD MONSTER TRUCKS		Pro-Line MT™	Traxxas Stampede™	ECX Torment™	
14 SERIES	Max Cells	86T SPUR	86T SPUR	87T SPUR	
1406-4600Kv	2S LiPo 6-7 NiMH	15T - 18T	15T - 18T	10T - 13T	
1406-5700Kv	2S LiPo 6-7 NiMH	13T - 16T	13T - 16T	10T - 13T	
1410-3800Kv	2S LiPo 6-7 NiMH	16T - 20T	16T - 20T	10T - 13T	

Note: Spur gears listed are the largest currently known. If larger gears are available, use them.

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

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OVERPOWERING RC SINCE 1997

GEARING CHART

FOR 1:10 SCALE CASTLE MOTORS

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SET-UP GUIDE FOR ALL CASTLE CREATIONS 1:10 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, 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 1:10 scale vehicles is 5000mah+. Do not use 20C continuous discharge batteries. We recommend 30C continuous discharge or higher for 1:10 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.