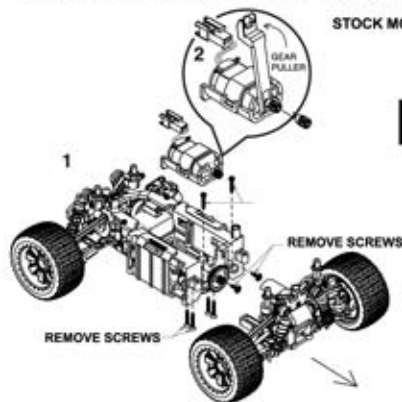
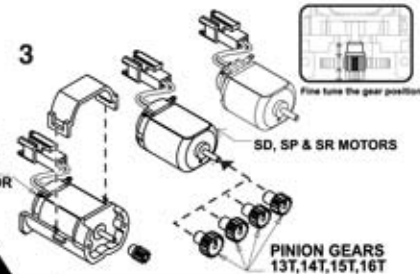




## 424702 THREE MOTOR RACING PACK



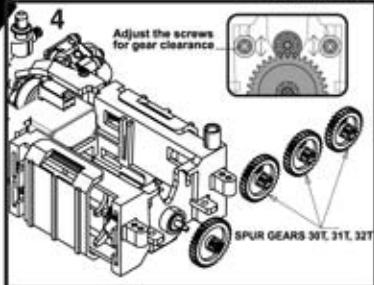
STOCK MOTOR



Fine tune the gear position

SD, SP & SR MOTORS

PINION GEARS  
13T,14T,15T,16T



Adjust the screws for gear clearance

SPUR GEARS 30T, 31T, 32T

### MOTOR SPECS:

**SD (GRAY)**  
Stock Replacement Motor  
RPM: 23,900  
Torque: 106 g/cm

**SP (GREEN)**  
High Torque / High Speed  
RPM: 28,800  
Torque: 114 g/cm

**SR (RED)**  
Ultra High Speed  
RPM: 29,900  
Torque: 95 g/cm



### SETTING THE GEAR MESH



Loose

Optimal

Tight



**WARNING:**

- The pinion gear should fit snug against the spur gear, but not too tight.
- If the pinion gear is too tight or loose, you may strip your gears and/or cause the motor to overheat.



**WARNING:**

- Do not overgear your vehicle, especially with high speed motors w/ low torque. Doing so will cause the motor overheat and possibly burn out.

### SETTING THE GEAR RATIO

Optimizing the gear ratio will greatly improve your vehicle's performance to accommodate different surfaces, engine sizes and tracks. For the most part, when you change to a larger pinion gear, the top speed of your vehicle will increase, but acceleration and battery life decreases.

We suggest using a higher pinion gear for long straight tracks on hard surfaces without many turns. When switching to a smaller pinion gear, the top speed decreases, but your vehicle will be punchier with faster acceleration and longer battery life.

We recommend using a lower pinion gear on short to medium asphalt, carpet or off road tracks with lots of turns.

\*All specifications are approximate. Environmental conditions and battery quality will cause motor specs to vary.

## RECOMMENDED GEAR RATIOS

### SD (GRAY) MOTOR

		Spur Gear			
Pinion Gear	8T	34T 17.1	32T 16:1	31T 15.5:1	30T 15:1
	10T	13.6:1	12.8:1	12.4:1	12:1
12T	11.3:1	10.67:1	10.3:1	10:1	
13T	9.7:1	9.85:1	9.53:1	9.23:1	
14T	9.7:1	9.14:1	8.86:1	8.57:1	
15T	9:1	8.5:1	8.27:1	8:1	
16T	8.5:1	8:1	7.75:1	7.5:1	

### SP (GREEN) MOTOR

		Spur Gear			
Pinion Gear	8T	34T 17.1	32T 16:1	31T 15.5:1	30T 15:1
	10T	13.6:1	12.8:1	12.4:1	12:1
12T	11.3:1	10.67:1	10.3:1	10:1	
13T	9.7:1	9.85:1	9.53:1	9.23:1	
14T	9.7:1	9.14:1	8.86:1	8.57:1	
15T	9:1	8.5:1	8.27:1	8:1	
16T	8.5:1	8:1	7.75:1	7.5:1	

### SR (RED) MOTOR

		Spur Gear			
Pinion Gear	8T	34T 17.1	32T 16:1	31T 15.5:1	30T 15:1
	10T	13.6:1	12.8:1	12.4:1	12:1
12T	11.3:1	10.67:1	10.3:1	10:1	
13T	9.7:1	9.85:1	9.53:1	9.23:1	
14T	9.7:1	9.14:1	8.86:1	8.57:1	
15T	9:1	8.5:1	8.27:1	8:1	
16T	8.5:1	8:1	7.75:1	7.5:1	

Not Recommended
Fast Acceleration / Moderate Top End - Optimal
Moderate Acceleration - Ultra High Top End - Optimal
Slow Acceleration - Ultra High Top End
Not Recommended

Download the Owner's Manual at [www.radlinerc.com](http://www.radlinerc.com)



Design Reg. No. 0700218.5M Patent Pending  
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