NTC3 Gear Combinations

This chart consists of all the ratios that are available from Associated Electrics for our Nitro TC3 kits and RTRs.

The NTC3 RTR #2040 kit comes stock with a 54 spur and 24 tooth clutch bell. That gives you a final drive of 5.63, which has good takeoff and top end speed. You change either the spur or clutch bell gear or both to achieve either higher or lower final drive ratios to increase takeoff power or top end speed.

By checking this chart you will see the final drive ratios for whatever gear combinations that you may have or want to have installed in your kit. The final drive can be calculated with the following formula, and with the NTC3/RTR include the transmission ratio of 2.5.

If you use the formula below, you can calculate the gears in your kit yourself, which can help you to gain more performance from your NTC3 kit.

Spur gear size ÷ clutch bell gear x transmission ratio	
= final drive	
Example: 54 ÷ 24 x 2.5 =5 .63	

- With a higher numerical final drive ratio (5.0, 6.0,7.0, and so on), you will find increased acceleration.
- With a lower final drive (6.0, 5.0, 4.0, and so on), you gain more top end speed.

Standard gear sizes:

	NTC3 RTR (single speed)		
	Spur Gear	Clutch Bell Gear	
single speed	54T	24T	
	NTC3 RTR+, #2	042	
	Spur Gear	Clutch Bell Gear	
1 st gear	54T	22T	
2 nd gear	50T	26T	
	NTC3 Team kits #2034 & 2035		
	Spur Gear	Clutch Bell Gear	
1 st gear	54T	22T	
2 nd gear	50T	26T	
NTC3 Factory Team kit #2033			
	Spur Gear	Clutch Bell Gear	
1 st gear	54T	21T	
2 nd gear	50T	27T	

Gear Ratio Chart for the NTC3

Spui	· Cl	utch Bell	Drive Ratio
54		20 Silver	6.75
54	(FT)	21 Gray	6.43
1ST	54 (Team &	+) 22 Blue	6.14
54		23 Gold	5.87
54	(RTR)	24 Red	5.63
54		25 Green	5.40
54		26 Black	5.19
54		27 Purple	5.00

Final

52	20	6.50
52	21	6.19
52	22	5.91
52	23	5.65
52	24	5.42
52	25	5.20
52	26	5.00
52	27	4.81

50	20	6.25
50	21	5.95
50	22	5.68
50	23	5.43
50	24	5.21
50	25	5.00
2nd: 50	(Team & +) 26	4.81
50	(FT) 27	4.63

20	6.00
21	5.71
22	5.45
23	5.22
24	5.00
25	4.80
26	4.62
27	4.44
	21 22 23 24 25 26