

GEAR CHARTS

		Final Drive Ratio (FDR) Chart							
		SPUR GEAR 48 PITCH							
		80	81	82	83	84	85	86	87
PINION SIZE	13	10.46	10.59	10.72	10.85	10.98	11.12	11.25	11.38
	14	9.71	9.84	9.96	10.08	10.20	10.32	10.44	10.56
	15	9.07	9.18	9.29	9.41	9.52	9.63	9.75	9.86
	16	8.50	8.61	8.71	8.82	8.92	9.03	9.14	9.24
	17	8.00	8.10	8.20	8.30	8.40	8.50	8.60	8.70
	18	7.56	7.65	7.74	7.84	7.93	8.03	8.12	8.22
	19	7.16	7.25	7.34	7.43	7.52	7.61	7.69	7.78
	20	6.80	6.89	6.97	7.06	7.14	7.23	7.31	7.40
	21	6.48	6.56	6.64	6.72	6.80	6.88	6.96	7.04
	22	6.18	6.26	6.34	6.41	6.49	6.57	6.65	6.72
	23	5.91	5.99	6.06	6.13	6.21	6.28	6.36	6.43
	24	5.67	5.74	5.81	5.88	5.95	6.02	6.09	6.16
	25	5.44	5.51	5.58	5.64	5.71	5.78	5.85	5.92
	26	5.23	5.30	5.36	5.43	5.49	5.56	5.62	5.69
27	5.04	5.10	5.16	5.23	5.29	5.35	5.41	5.48	
28	4.86	4.92	4.98	5.04	5.10	5.16	5.22	5.28	

		Final Drive Ratio (FDR) Chart									
		SPUR GEAR 64 PITCH									
		110	111	112	113	114	115	116	117	118	
PINION SIZE	19	9.84	9.93	10.02	10.11	10.20	10.29	10.38	10.47	10.56	
	20	9.35	9.43	9.52	9.61	9.69	9.78	9.86	9.94	10.03	
	21	8.90	8.99	9.07	9.15	9.23	9.31	9.39	9.47	9.55	
	22	8.50	8.58	8.65	8.73	8.81	8.89	8.96	9.04	9.12	
	23	8.13	8.20	8.28	8.35	8.43	8.50	8.57	8.65	8.72	
	24	7.79	7.86	7.93	8.00	8.07	8.15	8.22	8.29	8.36	
	25	7.48	7.55	7.62	7.68	7.75	7.82	7.89	7.96	8.02	
	26	7.19	7.26	7.32	7.39	7.45	7.52	7.58	7.65	7.72	
	27	6.93	6.99	7.05	7.11	7.18	7.24	7.30	7.37	7.43	
	28	6.68	6.74	6.80	6.86	6.92	6.98	7.04	7.10	7.16	
	29	6.45	6.51	6.57	6.62	6.68	6.74	6.80	6.86	6.92	
	30	6.23	6.29	6.35	6.40	6.46	6.52	6.57	6.63	6.69	
	31	6.03	6.09	6.14	6.20	6.25	6.31	6.36	6.42	6.47	
	32	5.84	5.90	5.95	6.00	6.06	6.11	6.16	6.22	6.27	
33	5.67	5.72	5.77	5.82	5.87	5.92	5.98	6.03	6.08		
34	5.50	5.55	5.60	5.65	5.70	5.75	5.80	5.85	5.90		

		Rubber Tire Rollout Chart (63mm diameter)							
		SPUR GEAR48 Pitch Spurs							
		80	81	82	83	84	85	86	87
PINION SIZE	13	18.92	18.69	18.46	18.24	18.02	17.81	17.60	17.40
	14	20.37	20.12	19.88	19.64	19.40	19.18	18.95	18.73
	15	21.83	21.56	21.30	21.04	20.79	20.55	20.31	20.07
	16	23.28	23.00	22.72	22.44	22.18	21.92	21.66	21.41
	17	24.74	24.43	24.14	23.85	23.56	23.28	23.01	22.75
	18	26.20	25.87	25.56	25.25	24.95	24.65	24.37	24.09
	19	27.65	27.31	26.98	26.65	26.33	26.02	25.72	25.43
	20	29.11	28.75	28.40	28.05	27.72	27.39	27.08	26.76
	21	30.56	30.18	29.82	29.46	29.11	28.76	28.43	28.10
	22	32.02	31.62	31.24	30.86	30.49	30.13	29.78	29.44
	23	33.47	33.06	32.66	32.26	31.88	31.50	31.14	30.78
	24	34.93	34.50	34.08	33.66	33.26	32.87	32.49	32.12
	25	36.38	35.93	35.50	35.07	34.65	34.24	33.84	33.46
	26	37.84	37.37	36.91	36.47	36.04	35.61	35.20	34.79
27	39.29	38.81	38.33	37.87	37.42	36.98	36.55	36.13	
28	40.75	40.25	39.75	39.28	38.81	38.35	37.91	37.47	

		Foam Tire Rollout Chart (116 Tooth 64P Spur)											
		TIRE DIAMETER											
		53	54	55	56	57	58	59	60	61	62	63	
PINION SIZE	19	16.04	16.35	16.65	16.95	17.25	17.56	17.86	18.16	18.46	18.77	19.07	
	20	16.89	17.21	17.52	17.84	18.16	18.48	18.80	19.12	19.44	19.75	20.07	
	21	17.73	18.07	18.40	18.73	19.07	19.40	19.74	20.07	20.41	20.74	21.08	
	22	18.58	18.93	19.28	19.63	19.98	20.33	20.68	21.03	21.38	21.73	22.08	
	23	19.42	19.79	20.15	20.52	20.89	21.25	21.62	21.98	22.35	22.72	23.08	
	24	20.26	20.65	21.03	21.41	21.79	22.18	22.56	22.94	23.32	23.71	24.09	
	25	21.11	21.51	21.91	22.30	22.70	23.10	23.50	23.90	24.29	24.69	25.09	
	26	21.95	22.37	22.78	23.20	23.61	24.02	24.44	24.85	25.27	25.68	26.10	
	27	22.80	23.23	23.66	24.09	24.52	24.95	25.38	25.81	26.24	26.67	27.10	
	28	23.64	24.09	24.53	24.98	25.43	25.87	26.32	26.76	27.21	27.66	28.10	
	29	24.49	24.95	25.41	25.87	26.33	26.80	27.26	27.72	28.18	28.64	29.11	
	30	25.33	25.81	26.29	26.76	27.24	27.72	28.20	28.68	29.15	29.63	30.11	
	31	26.17	26.67	27.16	27.66	28.15	28.64	29.14	29.63	30.13	30.62	31.11	
	32	27.02	27.53	28.04	28.55	29.06	29.57	30.08	30.59	31.10	31.61	32.12	
33	27.86	28.39	28.91	29.44	29.97	30.49	31.02	31.54	32.07	32.59	33.12		
34	28.71	29.25	29.79	30.33	30.87	31.42	31.96	32.50	33.04	33.58	34.12		

QUICK REFERENCE TABLE

Key Guide		FRONT														REAR													
		Off-Throttle	On-Throttle	Downstops	Camber	Caster	Ride Height	Toe	Roll Center	Anti-Roll bar	Tires	Shock Springs	Shock Damping	Shock Position	One-Way Front Axle	Solid Front Axle	Front Differential	Downstops	Camber	Ride Height	Roll Center	Anti-Roll bar	Tires	Shock Springs	Shock Damping	Shock Position	Rear Differential	Solid Rear Axle	Gurney Strip
How to get rid of UNDERSTEER	Corner Entry			5	6	4	5	5	3	1	1	3	3	4	5	5	6	3	6	5	2	1	3	3	3	4	4	3	3
	Mid Corner			2	6	3	5	8	2	1	3	4	3	4	5	5	6	7	5	5	2	1	1	3	3	4	4	3	3
	Corner Exit			2	6	3	5	8	2	1	3	4	5	4	5	5	6	8	5	5	2	1	1	3	5	4	4	3	3
	Braking			6	6	4	5	7	4	2	4	4	5	4	3	3	4	3	4	5	2	1	1	3	3	3			3
	Corner Entry			5	6	4	5	5	3	1	1	3	3	4	5	5	6	3	6	5	2	1	3	3	3	4	4	3	3
How to get rid of OVERSTEER	Mid Corner			2	6	3	5	8	2	1	3	4	3	4	5	5	6	7	5	5	2	1	1	3	3	4	4	3	3
	Corner Exit			2	6	3	5	8	2	1	3	4	5	4	5	5	6	8	5	5	2	1	1	3	5	4	4	3	3
	Braking			6	6	4	5	7	4	2	4	4	5	4	3	3	4	3	4	5	2	1	1	3	3	3			3
	Corner Entry				8	2	1		2	1	1	2	3	4	4	4	5	3	6	1	2	1	1	3	4	5	2	2	3
	Mid Corner			6	8	2	1		2	1	1	3	4	5	4	4	5	5	6	1	2	1	1	2	3	4	2	2	3
How to get rid of TRACTION ROLL	Corner Exit			6	8	2	1		2	1	1	3	4	5	4	4	5	5	6	1	2	1	1	2	3	4	2	2	3
	Braking				8	2	1		2	1	1	2	3	4	4	4	5	3	6	1	2	1	1	3	4	5	2	2	3
	STRAIGHT LINE STABILITY To make Better			7	5	3	7	4	7	5	3	8	4	8	8	8	8		5	6	7	7	3	8	4	8	6	6	2
STEERING RESPONSE To make Faster				6	4	4	5	1	2	4	4	2	1	4					4	2	3	4	4	3	4			4	