

Cub Cadet Gear Ratio Chart

CUB CADET GEAR RATIOS															
Stock Cub Cadet	Top Pinion Gear				12				Tire Radius		13.45		84.5 circ		
	Big Front Gear				84				Engine RPM		6600		26.9 dia		
	3rd	2nd	1st	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	
	Top Shaft Tooth Count	26	19	13	15	16	17	18	20	21	22	23	24	25	27
	Bottom Shaft Tooth Count	26	33	39	37	36	35	34	32	31	30	29	28	27	25
	Final Gear Ratio	32.2	55.9	96.6	79.4	72.5	66.3	60.8	51.5	47.5	43.9	40.6	37.8	34.8	29.8
mph	16.4	9.4	5.5	6.7	7.3	8.0	8.7	10.3	11.1	12.0	13.0	14.1	15.2	17.7	
20% Underdrive	Top Pinion Gear				10				Tire Radius		13.45		84.5 circ		
	Big Front Gear				86				Engine RPM		6600		26.9 dia		
	3rd	2nd	1st	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	
	Top Shaft Tooth Count	26	19	13	15	16	17	18	20	21	22	23	24	25	27
	Bottom Shaft Tooth Count	26	33	39	37	36	35	34	32	31	30	29	28	27	25
	Final Gear Ratio	39.56	68.71	118.7	97.58	89.01	81.45	74.72	63.3	58.4	53.95	49.88	46.15	42.72	36.63
mph	13.4	7.7	4.5	5.4	5.9	6.5	7.1	8.3	9.0	9.8	10.6	11.4	12.4	14.4	
10% Underdrive	Top Pinion Gear				11				Tire Radius		13.45		84.5 circ		
	Big Front Gear				85				Engine RPM		6600		26.9 dia		
	3rd	2nd	1st	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	
	Top Shaft Tooth Count	26	19	13	15	16	17	18	20	21	22	23	24	25	27
	Bottom Shaft Tooth Count	26	33	39	37	36	35	34	32	31	30	29	28	27	25
	Final Gear Ratio	35.55	61.74	106.6	87.68	79.98	73.18	67.14	56.87	52.47	48.47	44.82	41.47	38.39	32.91
mph	14.9	8.6	5.0	6.0	6.6	7.2	7.9	9.3	10.1	10.9	11.8	12.7	13.8	16.1	
One Faster Pinion Gear	Top Pinion Gear				13				Tire Radius		13.45		84.5 circ		
	Big Front Gear				84				Engine RPM		6600		26.9 dia		
	3rd	2nd	1st	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	
	Top Shaft Tooth Count	26	19	13	15	16	17	18	20	21	22	23	24	25	27
	Bottom Shaft Tooth Count	26	33	39	37	36	35	34	32	31	30	29	28	27	25
	Final Gear Ratio	29.72	51.62	89.17	73.32	66.88	61.19	56.14	47.56	43.88	40.53	37.48	34.68	32.1	27.52
mph	17.8	10.2	5.9	7.2	7.9	8.6	9.4	11.1	12.0	13.0	14.1	15.2	16.8	19.2	
10% Overdrive	Top Pinion Gear				13				Tire Radius		13.45		84.5 circ		
	Big Front Gear				83				Engine RPM		6600		26.9 dia		
	3rd	2nd	1st	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	
	Top Shaft Tooth Count	26	19	13	15	16	17	18	20	21	22	23	24	25	27
	Bottom Shaft Tooth Count	26	33	39	37	36	35	34	32	31	30	29	28	27	25
	Final Gear Ratio	29.37	51.01	88.11	72.44	66.08	60.47	55.48	46.99	43.35	40.05	37.03	34.26	31.72	27.19
mph	18.0	10.4	6.0	7.3	8.0	8.7	9.5	11.2	12.2	13.2	14.3	15.4	16.7	19.4	
16% Overdrive	Top Pinion Gear				14				Tire Radius		13.45		84.5 circ		
	Big Front Gear				82				Engine RPM		6600		26.9 dia		
	3rd	2nd	1st	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	
	Top Shaft Tooth Count	26	19	13	15	16	17	18	20	21	22	23	24	25	27
	Bottom Shaft Tooth Count	26	33	39	37	36	35	34	32	31	30	29	28	27	25
	Final Gear Ratio	26.94	46.8	80.83	66.46	60.82	55.47	50.89	43.11	39.77	36.74	33.97	31.43	29.1	24.95
mph	19.6	11.3	6.5	7.9	8.7	9.5	10.4	12.3	13.3	14.4	15.6	16.8	18.2	21.2	
23% Overdrive	Top Pinion Gear				15				Tire Radius		13.45		84.5 circ		
	Big Front Gear				81				Engine RPM		6600		26.9 dia		
	3rd	2nd	1st	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	
	Top Shaft Tooth Count	26	19	13	15	16	17	18	20	21	22	23	24	25	27
	Bottom Shaft Tooth Count	26	33	39	37	36	35	34	32	31	30	29	28	27	25
	Final Gear Ratio	24.84	43.14	74.52	61.27	55.89	51.14	46.92	39.74	36.67	33.87	31.32	28.98	26.83	23
mph	21.3	12.2	7.1	8.6	9.5	10.3	11.3	13.3	14.4	15.6	16.9	18.2	19.7	23.0	
26% Overdrive	Top Pinion Gear				13				Tire Radius		13.45		84.5 circ		
	Big Front Gear				67				Engine RPM		6600		26.9 dia		
	3rd	2nd	1st	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	
	Top Shaft Tooth Count	26	19	13	15	16	17	18	20	21	22	23	24	25	27
	Bottom Shaft Tooth Count	26	33	39	37	36	35	34	32	31	30	29	28	27	25
	Final Gear Ratio	23.71	41.18	71.12	58.48	53.34	48.81	44.78	37.93	35	32.33	29.89	27.66	25.6	21.95
mph	22.3	12.8	7.4	9.0	9.9	10.8	11.8	13.9	15.1	16.3	17.7	19.1	20.6	24.1	

Cub Cadet Gear Ratio Chart

33% Overdrive	Top Pinion Gear										Tire Radius		13.45	84.5	circ	
	Big Front Gear										Engine RPM		6600	26.9	dia	
	3rd	2nd	1st	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.
Top Shaft Tooth Count	26	19	13	15	16	17	18	20	21	22	23	24	25	27		
Bottom Shaft Tooth Count	26	33	39	37	36	35	34	32	31	30	29	28	27	25		
Final Gear Ratio	21.69	37.66	65.06	53.49	48.79	44.65	40.96	34.7	32.01	29.57	27.34	25.3	23.42	20.08		
m.p.h.	24.4	14.0	8.1	9.9	10.8	11.8	12.9	15.2	16.5	17.9	19.3	20.9	22.6	26.3		
38% Overdrive	Top Pinion Gear										Tire Radius		13.45	84.5	circ	
	Big Front Gear										Engine RPM		6600	26.9	dia	
	3rd	2nd	1st	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.		
Top Shaft Tooth Count	26	19	13	15	16	17	18	20	21	22	23	24	25	27		
Bottom Shaft Tooth Count	26	33	39	37	36	35	34	32	31	30	29	28	27	25		
Final Gear Ratio	19.93	34.62	59.8	49.17	44.85	41.04	37.65	31.89	29.43	27.18	25.13	23.26	21.53	18.46		
m.p.h.	26.5	15.3	8.8	10.7	11.8	12.9	14.0	16.6	18.0	19.4	21.0	22.7	24.5	28.6		
43% Overdrive	Top Pinion Gear										Tire Radius		13.45	84.5	circ	
	Big Front Gear										Engine RPM		6600	26.9	dia	
	3rd	2nd	1st	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.		
Top Shaft Tooth Count	26	19	13	15	16	17	18	20	21	22	23	24	25	27		
Bottom Shaft Tooth Count	26	33	39	37	36	35	34	32	31	30	29	28	27	25		
Final Gear Ratio	18.4	31.96	55.2	45.39	41.4	37.88	34.76	29.44	27.16	25.09	23.2	21.47	19.87	17.04		
m.p.h.	28.7	16.5	9.6	11.6	12.8	13.9	15.2	17.9	19.5	21.1	22.8	24.6	26.6	31.0		
47% Overdrive	Top Pinion Gear										Tire Radius		13.45	84.5	circ	
	Big Front Gear										Engine RPM		6600	26.9	dia	
	3rd	2nd	1st	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.		
Top Shaft Tooth Count	26	19	13	15	16	17	18	20	21	22	23	24	25	27		
Bottom Shaft Tooth Count	26	33	39	37	36	35	34	32	31	30	29	28	27	25		
Final Gear Ratio	17.05	29.61	51.14	42.05	38.38	35.1	32.2	27.28	25.16	23.25	21.49	19.89	18.41	15.78		
m.p.h.	31.0	17.6	10.3	12.6	13.8	15.1	16.4	19.4	21.0	22.7	24.6	26.6	28.7	33.5		

INSERT NUMBERS ONLY IN THE GREEN BOXES

ROD LENGTH CHART

DECK HEIGHT 8.625

CRANK STROKE	COMPRESSION DISTANCE OF PISTON				
	1.125		1.000	0.875	
3.250	5.875		6.000	6.125	FLUSH ROD LENGTH
	5.937				.062 POP OUT ROD LENGTH
	6.000				.125 POP OUT ROD LENGTH
3.400				6.050	FLUSH ROD LENGTH
3.500	5.750		5.875	6.000	FLUSH ROD LENGTH
	5.812		5.937	6.062	.062 POP OUT ROD LENGTH
	5.875		6.000	6.125	.125 POP OUT ROD LENGTH
3.750	5.625		5.750	5.875	FLUSH ROD LENGTH
	5.687		5.812	5.937	.062 POP OUT ROD LENGTH
	5.750		5.875	6.000	.125 POP OUT ROD LENGTH
3.812	5.594		5.719	5.844	FLUSH ROD LENGTH
	5.656		5.781	5.906	.062 POP OUT ROD LENGTH
	5.719		5.844	5.969	.125 POP OUT ROD LENGTH
3.875	5.563		5.688	5.813	FLUSH ROD LENGTH
	5.625		5.750	5.875	.062 POP OUT ROD LENGTH
	5.688		5.813	5.938	.125 POP OUT ROD LENGTH
3.937	5.532		5.657	5.782	FLUSH ROD LENGTH
	5.594		5.719	5.844	.062 POP OUT ROD LENGTH
	5.657		5.782	5.907	.125 POP OUT ROD LENGTH
4.000	5.500		5.625	5.750	FLUSH ROD LENGTH
	5.562		5.687	5.812	.062 POP OUT ROD LENGTH
	5.625		5.750	5.875	.125 POP OUT ROD LENGTH

WHAT IS COMPRESSION DISTANCE

