

2005-2009 Mustang Drivetrain Calculator

TIRE SIZE -	235	55	17	NUMBERS IN BLUE ARE INPUT PARAMETERS, OTHER NUMBERS ARE FIXED OR CALCULATED, AND SHOULD NOT BE CHANGED
TIRE DIAMETER -	27.18			
TIRE WIDTH -	9.25			
DIFFERENTIAL RATIO	3.31			

GEAR	GEAR RATIO	RPM/10MPH	RPM AT MPH															
			10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	
1	3.75	1535	1535	3070	4606	6141	7676	9211	10746									
2	2.19	897	897	1793	2690	3586	4483	5379	6276	7173	8069	8966	9862					
3	1.41	577	577	1154	1732	2309	2886	3463	4041	4618	5195	5772	6350	6927	7504	8081	8659	
4	1.00	409	409	819	1228	1638	2047	2456	2866	3275	3685	4094	4503	4913	5322	5731	6141	
5	0.72	295	295	590	884	1179	1474	1769	2063	2358	2653	2948	3242	3537	3832	4127	4421	
6																		

GEAR	GEAR RATIO	MPH/1000RPM	MPH AT RPM														
			1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500
1	3.75	6.51	10	13	16	20	23	26	29	33	36	39	42	46	49	52	55
2	2.19	11.15	17	22	28	33	39	45	50	56	61	67	72	78	84	89	95
3	1.41	17.32	26	35	43	52	61	69	78	87	95	104	113	121	130	139	147
4	1.00	24.43	37	49	61	73	85	98	110	122	134	147	159	171	183	195	208
5	0.72	33.93	51	68	85	102	119	136	153	170	187	204	221	237	254	271	288
6																	

DIFFERENTIAL RATIO	3.31	DRIVESHAFT RPM AT MPH														
TIRE DIAMETER	27.18															
$RPM = MPH \times Gear\ Ratio \times \frac{336}{Tire\ Diameter}$		10	20	30	40	50	60.0	70	80	90	100	110	120	130	140	150
		409	818	1228	1637	2046	2455	2865	3274	3683	4092	4501	4911	5320	5729	6138
		160	170	180	190	200	210	220	230	240	250	260	270	280	290	300
		6548	6957	7366	7775	8185	8594	9003	9412	9821	10231	10640	11049	11458	11868	12277

Differential Ratios	
Mustang V6	
Mustang GT	
Mustang Bullitt	
Mustang GT500	
Mustang GT500KR	

Tremec Transmission	
T5	V6
1st	3.75:1
2nd	2.19:1
3rd	1.41:1
4th	1.00:1
5th	0.72:1

TR3650	GT & Bullitt
1st	3.38:1
2nd	2.00:1
3rd	1.32:1
4th	1.00:1
5th	0.68:1

TR6060	GT500 & K
1st	2.97:1
2nd	1.78:1
3rd	1.30:1
4th	1.00:1
5th	0.80:1
6th	0.63:1



3.31:1
3.55:1
3.73:1
3.31:1
3.73:1

is
it
R

Typical Differential Ratios	
3.08 :1	
3.31 :1	
3.55 :1	
3.73 :1	
3.90 :1	
4.10 :1	
4.30 :1	
4.56 :1	

Typical Gear Ratios	
3.75 :1	
3.38 :1	
2.97 :1	
2.19 :1	
2.00 :1	
1.78 :1	
1.41 :1	
1.32 :1	
1.30 :1	
1.00 :1	
0.80 :1	
0.72 :1	
0.68 :1	
0.63 :1	