

BEARS motorsport 0121 742 2200

Gear Ratio Calculation Sheet

Customer Neil Ellis Transmission Type 113 SWA
 Vehicle Type 1 Engine cc
 Engine Type Type 1

RPM	1st Gear		2nd Gear		3rd Gear		4th Gear		5th Gear		6th Gear		BHP	Torque ft/lbs
	MPH	AT	MPH	AT	MPH	AT	MPH	AT	MPH	AT	MPH	AT		
2500	13.4		24.5		40.1		56.7							
3000	16.0		29.4		48.1		68.1							
3250	17.4		31.9		52.1		73.7							
3500	18.7		34.3		56.1		79.4							
4000	21.4		39.2		64.1		90.8							
4500	24.0		44.1		72.1		102.1							
5000	26.7		49.0		80.1		113.4							
5500	29.4		53.9		88.1		124.8							
6000	32.1		58.8		96.2		136.1							
6300	33.7		61.8		101.0		142.9							
7000	37.4		68.6		112.2		158.8							
7500	40.1		73.5		120.2		170.2							

Vehicle Weight **950.0** kg
 Tyre Diameter **668.0** mm
 Required ET **14.0** secs
 Engine hp **160.0** hp
 Enter max rpm **6300.0** rpm
Calculated Values
 HP for required ET **151.1** hp
 ET with HP available **13.7** secs
 MPH for quarter mile **99.3** mph

Gear Ratios & Final Drive

	Ratio	Overall Ratio
1st	3.780	14.648
2nd	2.060	7.983
3rd	1.260	4.883
4th	0.890	3.449
5th	0.000	0.000
6th	0.000	0.000
Final Drive		3.875