

5.8L ENGINE MECHANICAL SPECIFICATIONS

Description	English Specifications	Metric Specifications
Valve springs (cont'd)		
Valve spring assembled height		
Intake:	1.75-1.81	44.45-45.97
Exhaust:	1.58-1.64	40.13-41.66
Valve spring out of square:	5/64 (0.078)	1.9800
Valve Stem Diameter		
Standard		
Intake:	0.3415-0.3423	8.67-8.69
Exhaust:	0.3410-0.3418	8.66-8.68
0.015 Oversize		
Intake:	0.3565-0.3573	9.06-9.08
Exhaust:	0.3561-0.3568	9.04-9.06
0.030 Oversize		
Intake:	0.3715-0.3723	9.44-9.46
Exhaust:	0.3711-0.3718	9.43-9.44
Crankshaft and Flywheel		
Main bearing journals		
Diameter:	2.9994-3.0002	76.185-76.205
TIR Maximum runout:	0.0020	0.0508
Maximum out of round:	0.0006	0.0152
Thrust face runout TIR maximum:	0.0010	0.0254
Maximum taper per inch/mm:	0.0005	0.0127
Thrust bearing journal length:	1.137-1.139	28.88-28.93
Main and rod bearing journal		
Finish RMS maximum: 12		
Main bearing thrust face		
Finish RMS maximum: 25 front/20 rear		
Connecting rod journal		
Diameter:	2.3103-2.3111	58.6816-58.7019
Taper per inch/cm maximum:	0.0006	0.0152
Crankshaft free end-play:	0.004-0.008	0.102-0.203
Flywheel clutch face run-out:	0.0100	0.2540
Crankshaft Bearings		
Connecting rod bearing to crankshaft clearance selective fit		
Desired:	0.0008-0.0015	0.020-0.038
Allowable:	0.0008-0.0025	0.0203-0.0635
Bearing wall thickness		
Standard:	0.572-0.577	14.53-14.66
0.002 undersize:	0.573-0.578	14.55-14.68
Main bearing to crankshaft selective fit		
Desired:	0.0008-0.0015	0.0200-0.0381
No. 1 bearing:	0.0001-0.0015	0.00254-0.0381
All other bearings:	0.0005-0.0015	1.0127-1.0381
Allowable:	1.0008-1.0026	1.020-1.066
No. 1 bearing:	1.0001-1.0020	1.00254-1.0508
All other bearings:	1.0005-1.0024	1.0127-1.0609
Bearing wall thickness		
Standard	0.0957-0.0960	2.430-2.438
No. 1 upper bearing:	0.0961-0.0966	2.441-2.454
All other bearings:	0.0957-0.0962	2.431-2.443