

5.8L ENGINE MECHANICAL SPECIFICATIONS

Description	English Specifications	Metric Specifications
Crankshaft Bearings (cont'd)		
0.002 undersize		
No. 1 bearing:	0.0958-0.0962	2.433-2.443
All other bearings:	0.0958-0.0963	2.433-2.446
Connecting rods		
Piston pin bore or bushing I.D.:	0.9097-0.9112	23.106-23.144
Rod bearing bore I.D.:	2.4265-2.4273	61.633-61.653
Connecting rod bore max. out of round:	0.0004	0.0102
Rod length center to center:	5.9545-5.9575	151.244-151.321
Connecting rod alignment maximum total difference		
Twist:	0.0240	3.1500
Service limit:	0.0230	0.5840
Bend:	0.0120	0.3048
Rod to crankshaft assembled side clearance:	0.010-0.020	0.254-0.508
Service limit:	0.0230	0.5840
Pistons		
Diameter		
Coded red:	3.9978-3.9984	101.544-101.560
Coded blue:	3.9990-3.9996	101.575-101.590
.003 oversize:	4.0002-4.0008	101.605-101.620
Piston to bore clearance selective fit		
Standard engine:	0.0018-0.0026	0.0457-0.0660
Lightning engine:	0.0015-0.0023	0.0381-0.0584
Piston pin bore diameter:	0.9123-0.9126	23.172-23.180
Ring groove width compression		
Top:	0.080-0.081	2.032-2.057
Bottom:	0.080-0.081	2.032-2.057
Oil:	0.188-0.189	4.775-4.801
Piston pins		
Length:	3.010-3.040	76.45-77.21
Diameter		
Standard:	0.9119-0.9124	23.162-23.174
.001 oversize:	0.9130-0.9133	23.190-23.197
.002 oversize:	0.9140-0.9143	23.215-23.223
To piston pin bore clearance (selective fit):	0.0003-0.0005	0.0076-0.0127
To connecting rod bushing clearance: Interference fit		
Piston rings		
Ring width		
Top Compression:	0.077-0.087	1.9558-2.2098
Bottom compression:	0.077-0.087	1.9558-2.2098
Side clearance		
Top compression:	0.002-0.004	0.051-0.102
Bottom compression:	0.002-0.004	0.051-0.102
Oil: snug		
Ring gap		
Top compression:	0.010-0.020	0.254-0.508
Bottom compression:	0.010-0.020	0.254-0.508
Oil (steel rail):	0.015-0.040	0.381-1.016