

5.0L ENGINE MECHANICAL SPECIFICATIONS

Description	English Specifications	Metric Specifications
Engine block		
Engine block-to-cylinder head surface warpage	0.003 in. (0.0762mm) in a 6.0 in. (152.4mm) span	
Standard cylinder bore	4.0000-4.0012 in.	101.6-101.6305mm
Cylinder bore out-of-round and taper	0.0015/0.010 in.	0.0381/0.254mm
Cylinder bore-to-piston clearance	0.0012-0.0020 in.	0.0305-0.0508mm
Pistons		
Standard piston diameter	3.9987-3.9993 in.	101.567-101.5822mm
Piston ring groove width		
Top compression ring	0.0602-0.0612 in.	1.530-1.555mm
Second compression ring	0.0602-0.0612 in.	1.530-1.555mm
Oil control ring	0.1587-0.1596 in.	4.030-4.055mm
Piston pin diameter	0.9121-0.9122 in.	23.1673-23.1699mm
Piston rings		
Thickness		
Top compression ring	0.0575-0.0587 in.	1.460-1.490mm
Second compression ring	0.0575-0.0587 in.	1.460-1.490mm
Oil Control ring		Side seal -Snug fit
Side clearance		
Top compression ring	0.0013-0.0033 in.	0.0330-0.0838mm
Second compression ring	0.0013-0.0033 in.	0.0330-0.0838mm
End-gap		
Top compression ring	0.010-0.020 in.	0.25-0.50mm
Second compression ring	0.018-0.028 in.	0.4572-0.7112mm
Oil ring	0.010-0.040 in.	0.25-1.016mm
Crankshaft and connecting rods		
Crankshaft main journal diameter	2.2482-2.2490 in.	57.1043-57.1246mm
Main bearing-to-journal clearance (oil clearance)	0.0008-0.0026 in.	0.0203-0.06604mm
Crankshaft journal out-of-round and taper	0.0006 in.	0.01524mm
Crankshaft thrust play	0.004-0.008 in.	0.1016-0.2032mm
Crankshaft runout	0.002 in.	0.050mm
Connecting rod journal diameter	2.1228-2.1236 in.	53.9191-53.9191mm
Connecting rod journal out-of-round and taper	0.0006 in.	0.01524mm
Connecting rod journal-to-connecting rod clearance	0.0007-0.0024 in.	0.01778-0.06096mm
Connecting rod small end bore inside diameter	0.9097-0.9112 in.	23.1064-23.1445mm
Connecting rod big end side clearance	0.010-0.020 in.	0.254-0.508mm
Connecting rod twist	0.015 in.	0.381mm
Connecting rod bend	0.012 in.	0.3048mm

5.8L ENGINE MECHANICAL SPECIFICATIONS

Description	English Specifications	Metric Specifications
General Information		
Type	90° V8 Overhead Valve Engine	
Displacement	351 cu. in.	5.8L (5767cc)
Number of Cylinders	8	
Bore	4.00 in.	101.6mm
Stroke	3.50 in.	88.9mm
Compression ratio	8.3:1	
Firing order	1-3-7-2-6-5-4-8	
Oil Pressure	40-60 psi @ 2000 RPM (engine hot)	