

ENGINE REBUILDING SPECIFICATIONS

Component	US	Metric
Connecting Rod Journal Diameter		
2.5L	2.1232-2.1240 in.	53.929-53.949 mm
3.0L		
1986-87	2.1240 in.	53.949 mm
1988-95	2.1253-2.1261 in.	53.982-54.002 mm
3.0L/3.2L SHO	2.0463-2.0472 in.	51.976-51.998 mm
3.8L	2.3103-2.3111 in.	58.681-58.701 mm
Crankshaft Endplay		
2.5L	0.0040-0.0080 in.	0.1016-0.2032 mm
3.0L	0.0040-0.0080 in.	0.1016-0.2032 mm
3.0L/3.2L SHO	0.0008-0.0087 in.	0.0203-0.2209 mm
3.8L	0.0040-0.0080 in.	0.1016-0.2032 mm
Cylinder Bore Diameter		
2.5L	3.6790-3.6830 in.	93.446-93.548 mm
3.0L	3.504 in.	89.002 mm
3.0L SHO	3.5039-3.5051 in.	88.999-89.029 mm
3.2L SHO	3.6220-3.6232 in.	91.998-92.029 mm
3.8L	3.810 in.	96.774 mm
Cylinder Bore Max Taper		
2.5L	0.0100 in.	0.2540 mm
3.0L	0.0020 in.	0.5588 mm
3.0L/3.2L SHO	0.0008 in.	0.0203 mm
3.8L	0.0020 in.	0.0508 mm
Cylinder Bore Out-Of-Round (Max.)		
2.5L	0.0048 in.	0.1219 mm
3.0L	0.0020 in.	0.0508 mm
3.0L/3.2L SHO	0.0008 in.	0.0203 mm
3.8L	0.0020 in.	0.0508 mm
Main Bearing Journal Diameter		
2.5L	2.2489-2.2490 in.	57.122-51.125 mm
3.0L	2.5190-2.5198 in.	63.983-64.003 mm
3.0L/3.2L SHO	2.5187-2.5197 in.	63.975-64.000 mm
3.8L	2.5190-2.5198 in.	63.983-64.003 mm
Main Bearing Clearance		
2.5L	0.0008-0.0015 in.	0.0203-0.0381 mm
3.0L	0.0010-0.0014 in.	0.0254-0.0356 mm
3.0L/3.2L SHO	0.0011-0.0022 in.	0.0279-0.0559 mm
3.8L	0.0010-0.0014 in.	0.0254-0.0356 mm
Main Bearing Journal Runout (Max.)		
2.5L	0.0002 in.	0.0050 mm
3.0L	0.0020 in.	0.0508 mm
3.0L/3.2L SHO	0.0024 in.	0.0609 mm
3.8L	0.0020 in.	0.0508 mm
Main Bearing Journal Taper (Max.)		
2.5L	0.0003 in.	0.0076 mm
3.0L	0.0006 in.	0.0152 mm
3.0L/3.2L SHO	0.0008 in.	0.0203 mm
3.8L	0.0003 in.	0.0076 mm
Piston-to-Bore or Liner Clearance		
2.5L	0.0012-0.0022 in.	0.0305-0.0559 mm