

ENGINE REBUILDING SPECIFICATIONS

Component	US	Metric
Piston Ring Side Clearance (cont.)		
3.2L SHO		
	Oil	0.0024-0.0059 in.
3.8L		0.0609-0.1499 mm
	Top	0.0016-0.0034 in.
	Bottom	0.0016-0.0034 in.
0.0406-0.0863 mm		0.0406-0.0863 mm
Valve Face Angle		
2.5L		45 degrees
3.0L		44 degrees
3.0L/3.2L SHO		45.5 degrees
3.8L		45.8 degrees
Valve Seat Angle		
2.5L		45 degrees
3.0L		45 degrees
3.0L/3.2L SHO		45 degrees
3.8L		44.5 degrees
Valve Seat Runout		
2.5L	0.0012 in.	0.0305 mm
3.0L	0.0010 in.	0.0254 mm
3.8L	0.0030 in.	0.0762 mm
Valve Spring Pressure (closed)		
2.5L	182 lbs. @ 1.13 in.	82 kg @ 28.7 mm
3.0L		
	1986-87	185 lbs. @ 1.11 in.
	1988-95	180 lbs. @ 1.16 in.
84 kg @ 28.2 mm		82 kg @ 29.5 mm
3.0L/3.2L SHO	121 lbs. @ 1.19 in.	55 kg @ 30.2 mm
3.8L	220 lbs. @ 1.18 in.	99 kg @ 29.9 mm
Valve Spring Free Length		
2.5L	1.76 in.	44.70 mm
3.0L	1.84 in.	46.74 mm
3.0L/3.2L SHO	1.76 in.	44.70 mm
3.8L	1.97 in.	50.04 mm
Valve Spring Installed Height		
2.5L	1.49 in.	37.85 mm
3.0L	1.58 in.	40.13 mm
3.8L	1.97 in.	50.04 mm
Valve Stem-to-Guide Clearance		
2.5L		
	Intake	0.0018 in.
	Exhaust	0.0023 in.
0.0457 mm		0.0584 mm
3.0L		
	Intake	0.0001-0.0028 in.
	Exhaust	0.0015-0.0033 in.
0.0025-0.0711 mm		0.0381-0.0838 mm
3.0L/3.2L SHO		
	Intake	0.0010-0.0023 in.
	Exhaust	0.0012-0.0025 in.
0.0254-0.0584 mm		0.0304-0.0635 mm
3.8L		
	Intake	0.0010-0.0028 in.
	Exhaust	0.0015-0.0033 in.
0.0254-0.0711 mm		0.0381-0.0838 mm