

SPECIFICATIONS (Continued)

PISTON 3.0L Continued

Coded (O/S:050)	TBDmm (TBD in.)
PISTON-TO-BORE CLEARANCE	0.030-0.050mm (0.0012-0.0020 in.)
Service Limit	0.080mm MAX.
RING GROOVE WIDTH	
Compression (Top)	1.21-1.23mm (0.0476-0.0484 in.)
Compression (Bottom)	1.505-1.525mm (0.0593-0.0600 in.)
Oil	2.81-2.83mm (0.1106-0.1114 in.)
PISTON PIN	
Length	61.9-62.0mm (2.437-2.441 in.)
Diameter	20.997-21.009mm (0.8267-0.8271 in.)
PIN TO PISTON CLEARANCE	-0.005 + 0.001mm (-0.00020 + 0.0004 in.)
PIN TO ROD CLEARANCE	0.005-0.011mm (0.00020-0.00043 in.)
PISTON PIN INSTALLING TEMPERATURE	70-80°C (158-176°F)
PISTON RINGS	
Ring Width	
Compression (Top)	1.17-1.19mm (0.0461-0.0469 in.)
Compression (Bottom)	1.47-1.49mm (0.0579-0.0587 in.)
Ring Gap	
Compression (Top) (In Gauge)	0.30-0.45mm (0.012-0.018 in.)
Compression (Bottom) (In Gauge)	0.30-0.45mm (0.012-0.018 in.)
Oil Ring (Steel Rail) (In Gauge)	0.20-0.50mm (0.008-0.020 in.)
Side Clearance	
1st Ring	0.02-0.06mm (0.0008-0.0024 in.)
2nd Ring	0.015-0.055mm (0.0006-0.0022 in.)
Oil Ring	0.06-0.15mm (0.0024-0.0059 in.)

PISTON 3.2L

Diameter	
Coded (STD)	91.960-91.990mm (3.6205-3.6217 in.)
Coded (O/S: 0.25)	TBDmm (TBD in.)
Coded (O/S: 0.50)	TBDmm (TBD in.)
PISTON-TO-BORE CLEARANCE	0.030-0.050mm (0.0012-0.0020 in.)
Service Limit	0.080mm MAX.
RING GROOVE WIDTH	
Compression (Top)	1.23-1.25mm (0.0484-0.0492 in.)
Compression (Bottom)	1.51-1.53mm (0.0594-0.0602 in.)
Oil	2.81-2.83mm (0.1106-0.1114 in.)
PISTON PIN	
Length	61.9-62.0mm (2.437-2.441 in.)
Diameter	21.997-22.009 (0.8660-0.8665 in.)
PIN TO PISTON CLEARANCE	0.005 + 0.001mm (-0.00020 + 0.00004 in.)
PIN TO ROD CLEARANCE	0.005-0.011mm (-0.00020 + 0.00004 in.)

PISTON 3.2L Continued

PIN TO ROD CLEARANCE	0.005-0.011mm (0.00020-0.00043 in.)
PISTON PIN INSTALLING TEMPERATURE	70-80°C (158-176°F)
PISTON RINGS	
Ring Width	
Compression (Top)	1.17-1.19mm (0.0461-0.0469 in.)
Compression (Bottom)	1.47-1.49mm (0.0579-0.0587 in.)
Ring Gap	
Compression (Top) (In Gauge)	0.30-0.45mm (0.012-0.018 in.)
Compression (Bottom) (In Gauge)	0.45-0.60mm (0.018-0.024 in.)
Oil Ring (Steel Rail) (In Gauge)	0.20-0.50mm (0.008-0.020 in.)
Side Clearance	
1st Ring	0.04-0.08mm (0.0016-0.0031 in.)
2nd Ring	0.02-0.06mm (0.0008-0.0024 in.)
Oil Ring	0.06-0.15mm (0.0024-0.0059 in.)

LUBRICATION SYSTEM

OIL PUMP	
Relief Valve Spring Tension (Force @ Length)	6.05 N/mm (34.5 lb./in.)
Relief Valve to Bore Clearance	0.052-0.088mm (0.0020-0.0035 in.)
Outer and Inner Rotor	
Tip Clearance	0.06-0.018mm (0.0024-0.0071 in.)
Rotor to Housing Side Clearance	0.03-0.09mm (0.0012-0.0035 in.)
Outer Rotor to Housing	
Radial Clearance	0.10-0.175mm (0.0039-0.0069 in.)
Inner Rotor Shaft to Housing Clearance	0.03-0.095mm (0.0012-0.0037 in.)

OIL CAPACITY

Passenger Car: 5.0 qt. with filter change.

BELT TENSION ALLOWABLE LIMITS — 3.0L SHO ONLY

	Specifications		Allowable Minimum
	New Belt (1) Installation Tension	Used Belt (2) Reset Tension	Cold Belt (2) (3) Audit Check
6 Rib	100-120 kg (220-265 lbs.)	67-87 kg (148-192 lbs.)	N.A.
4 Rib	70-90 kg (154-198 lbs.)	51-71 kg (112-157 lbs.)	

- (1) New belt installed and tensioned/engine not rotated.
- (2) Used belt is any belt that has rotated on an engine.
- (3) Cold belt (i.e., 3-hour soak; 0 warm-up).

CA12924-B



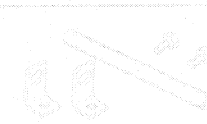
0.012-0.0020



0.0484-0.0492



0.012-0.018



0.018-0.024

VALVE SPRING COMPRESSOR SET
VALVE SPRING COMPRESSOR SET

VALVE SPRING COMPRESSOR SET
VALVE SPRING COMPRESSOR SET

(Continued)