11. CRANKCASE/PISTON/CYLINDER

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SERVICE INFORMATION

GENERAL

- . This section covers crankcase separation for service of the crankshaft and piston.
- The following parts must be removed before separating the crankcase.
 - Alternator/flywheel (Section 10)
 - Clutch/gearshift linkage (Section 9)

disulfide oil to the crank pin during assembly.

- Cylinder head (Section 8) - Engine (Section 6)
- Oil pump (Section 4)
- Mark and store the disassembled parts to ensure that they are installed in their original locations.
- Mark and store the bearing inserts to ensure that the parts are installed in the correct locations during reassembly. If the
 inserts are improperly installed, they will block the oil hole, causing insufficient lubrication and eventual engine seizure.
- Inserts are improperly installed, they will block the oil note, causing insufficient ubrication and eventual engine seizure.

 * The connecting rod bearing inserts are select fit and are identified by color codes. Select replacement bearings from
 the code tables. After installing new bearings, recheck them with a plastigauge to verify clearance. Apply molybdenum

SPECIFICATIONS

nit: mm (in)

ITEM		STANDARD	SERVICE LIMIT	
Cylinder	I.D.		71.000 - 71.015 (2.7953 - 2.7963)	71.10 (2.795)
	Out of round			0.10 (0.004)
	Taper		-	0.10 (0.004)
	Warpage		_	0.05 (0.002)
Piston, piston Piston mark direction			"IN" mark facing toward the intake side	_
rings	Piston O.D.		70.965 - 70.985 (2.7939 - 2.7947)	70.90 (2.791)
	Piston O.D. measurement point		15 mm (0.6 in) from bottom of skirt	
	Piston pin bore I.D.		17.002 - 17.008 (0.6694 - 0.6696)	17.03 (0.670)
	Piston pin O.D.		16.993 - 17.000 (0.6690 - 0.6693)	16.98 (0.669)
	Piston-to-piston pin clearance		0.002 - 0.015 (0.0001 - 0.0006)	
	Piston ring-to-ring groove clearance	Тор	0.030 - 0.065 (0.0012 - 0.0026)	0.08 (0.003)
		Second	0.015 - 0.045 (0.0006 - 0.0018)	0.07 (0.003)
	Piston ring end gap	Тор	0.28 - 0.38 (0.011 - 0.015)	0.5 (0.02)
		Second	0.40 - 0.55 (0.016 - 0.022)	0.7 (0.03)
		Oil (side rail)	0.2 - 0.7 (0.01 - 0.03)	0.9 (0.04)
Cylinder-to-piston clearance		0.015 - 0.050 (0.0006 - 0.0020)	_	
Connecting rod small end I.D.		17.016 - 17.034 (0.6699 - 0.6706)	17.04 (0.671)	
Connecting rod-to-piston pin clearance		0.016 - 0.041 (0.0006 - 0.0016)		
Crankpin oil clearance		0.030 - 0.052 (0.0012 - 0.0020)	0.06 (0.002)	