



# 7. CYLINDER/PISTON

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## SERVICE INFORMATION

### GENERAL INSTRUCTIONS

- Camshaft lubricating oil is fed to the cylinder head through an orifice in the engine case. Be sure this orifice is not clogged and that the O-ring and dowel pins are in place before installing the cylinder head.

### SPECIFICATIONS

ITEM	STANDARD	SERVICE LIMIT
Cylinder	I.D.	89.00–89.01 mm (3.5039–3.5041 in)
	Taper	—
	Out of round	—
	Warpage across top	—
Piston, piston rings and piston pin	O.D. at skirt	88.97–88.99 mm (3.5027–3.5035 in)
	Piston pin bore	21.002–21.008 mm (0.8268–0.8271 in)
Piston pin-to-piston clearance	0.002–0.014 mm (0.0001–0.0006 in)	0.12 mm (0.005 in)
Piston ring end gap	Top/second	0.30–0.50 mm (0.0118–0.0197 in)
	Oil (Side Rail)	0.2–0.9 mm (0.007–0.035 in)
Piston ring-to-groove clearance	Top	0.030–0.065 mm (0.0012–0.0026 in)
	Second	0.015–0.045 mm (0.0006–0.0018 in)
Cylinder-to-piston	Clearance	0.01–0.04 mm (0.0004–0.0016 in)
Piston pin O.D.		20.994–21.000 mm (0.8265–0.8268 in)

### TORQUE VALUES

- Cylinder bolt: 10–14 N·m (1.0–1.4 kg·m, 7–10 ft·lb)  
Cylinder nut: 22–28 N·m (2.2–2.8 kg·m, 16–20 ft·lb)