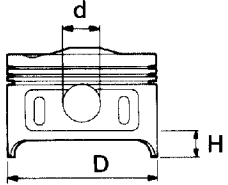
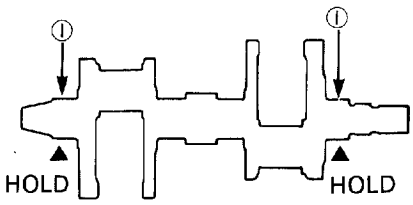


Unit: mm (in)

Cylinder/piston	Item	Standard	Service limit
	Cylinder I.D.	70.000–70.015 (2.755–2.756)	70.10 (2.759)
	Cylinder out of round	—	0.10 (0.004)
	Cylinder taper	—	0.10 (0.004)
	Cylinder warpage	—	0.10 (0.004)
	Piston mark direction	With "IN" mark facing to the intake side	—
	Piston O.D. (D)	69.970–69.990 (2.755–2.756)	69.85 (2.750)
	Piston O.D. measurement point (H)	10 (0.4)	—
	Piston pin hole I.D. (d)	17.002–17.008 (0.6694–0.6696)	17.02 (0.670)
			
	Cylinder-to-piston clearance	—	—
	Piston pin O.D.	16.994–17.000 (0.6691–0.6693)	16.98 (0.669)
	Piston-to-piston pin clearance	0.002–0.014 (0.0001–0.0005)	—
	Connecting rod-to-piston pin clearance	0.016–0.040 (0.0006–0.0020)	—
	Top ring-to-ring groove clearance	0.015–0.050 (0.0006–0.0019)	0.10 (0.04)
	Second ring-to-ring groove clearance	0.015–0.045 (0.0006–0.0018)	0.10 (0.004)
	Top ring end gap	0.20–0.35 (0.008–0.014)	0.5 (0.02)
	Second ring end gap	0.35–0.50 (0.014–0.020)	0.7 (0.03)
	Oil ring (side rail) end gap	0.20–0.80 (0.008–0.031)	1.00 (0.039)
	Top ring mark	Install with the marked side up	—
	Second ring mark	Install with the marked side up	—

Crankshaft	Item	Standard	Service limit
	Connecting and small end I.D.	17.016–17.034 (0.6699–0.6706)	17.04 (0.671)
	Connecting rod big end side clearance radial clearance	0.10–0.30 (0.004–0.012)	0.40 (0.016)
	Crankshaft runout ①	—	0.05 (0.002)
			
	Crankpin oil clearance	0.030–0.052 (0.0012–0.0020)	0.08 (0.003)
	Connecting rod bearing selection	See page 11-9	—
	Main journal oil clearance	'90-'93: 0.023–0.045 (0.0009–0.0018) After '93: 0.019–0.037 (0.0007–0.0015)	0.06 (0.002) 0.05 (0.002)
	Main journal bearing selection	See page 11-8	—

Starter system	Item	Standard	Service limit
	Starter motor brush length	12.0–13.0 (0.47–0.51)	6.5 (0.26)
	Starter clutch driven gear O.D.	47.175–47.200 (1.8573–1.8583)	47.16 (1.857)
	Kickstarter pinion gear I.D.	—	—
	Kickstarter spindle O.D.	—	—
	Kickstarter idle gear I.D.	—	—
	Countershaft O.D. at kickstarter idle gear	—	—
	Kickstater idle gear bushing O.D. I.D.	—	—