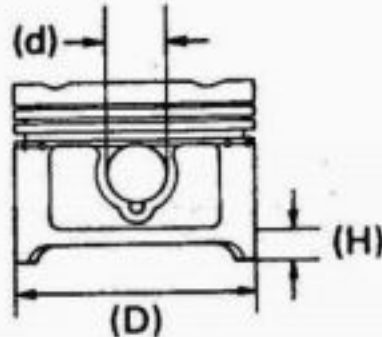
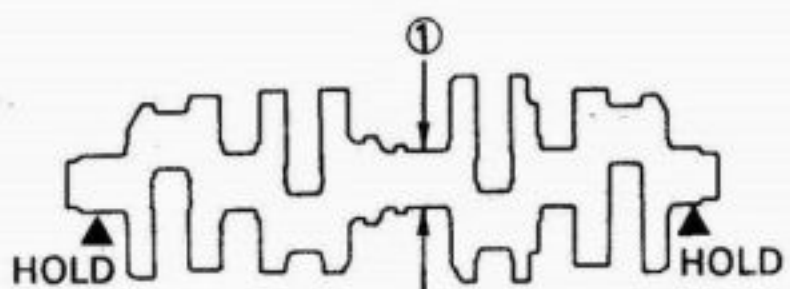


Cylinder/Piston	Item	Standard	Service Limit
	Cylinder I.D.	67.000-67.010 (2.6378-2.6381)	67.10 (2.641)
	Cylinder out of round	—	0.05 (0.002)
	Cylinder taper	—	0.05 (0.002)
	Cylinder warpage	—	0.10 (0.004)
	Piston mark direction	"IN" mark facing (toward the intake side)	—
	Piston O.D. (D)	66.960-66.990 (2.636-2.637)	66.90 (2.634)
	Piston O.D. measurement point (H)	14 mm (0.55 in) from the bottom	—
	Piston pin hole I.D. (d)	17.002-17.008 (0.6694-0.6696)	17.05 (0.671)
			
	Cylinder-to-piston clearance	0.010-0.050 (0.0003-0.0019)	0.10 (0.004)
	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 (0.0001-0.0006)	0.04 (0.002)
	Connecting rod-to-piston pin clearance	0.016-0.040 (0.0004-0.0020)	0.06 (0.002)
	Top ring-to-ring groove clearance	0.015-0.045 (0.0006-0.0018)	0.06 (0.002)
	Second ring-to-ring groove clearance	0.015-0.045 (0.0006-0.0018)	0.06 (0.002)
	Top ring end gap	0.15-0.30 (0.006-0.012)	0.5 (0.019)
	Second ring end gap	0.30-0.45 (0.012-0.018)	0.65 (0.025)
	Oil ring (side rail) end gap	0.20-0.70 (0.008-0.028)	0.9 (0.035)
	Top ring mark	"M" Mark side facing up	—
	Second ring mark	"RN" Mark side facing up	—

Crankshaft	Item	Standard	Service Limit
	Connecting rod small end I.D.	17.016-17.034 (0.6699-0.6706)	17.07 (0.672)
	Connecting rod big end side clearance	0.05-0.20 (0.002-0.008)	0.3 (0.01)
	radial clearance	—	—
	Crankshaft runout ①	—	0.05 (0.002)
			
	Crankpin oil clearance	0.024-0.057 (0.0009-0.0022)	0.06 (0.002)
	Connecting rod bearing selection	See page 9-15	—
	Main journal oil clearance	0.020-0.054 (0.0007-0.0021)	0.06 (0.002)
	Main journal bearing selection	See page 9-14	—