

SERVICE INFORMATION

GENERAL

- This section covers service of the cylinder head, valves, rocker arms and camshaft.
- The engine must be removed from the frame to service the rocker arms, camshaft, cylinder head and valves.
- When disassembling, mark and store the disassembled parts to ensure that they are reinstalled in their original locations.
- Clean all disassembled parts with cleaning solvent and dry them by blowing them off with compressed air before inspection.
- The rocker arm and camshaft lubricating oil is fed through the oil passages in the cylinder head and head cover. Clean the oil passages before assembling.
- Be careful not to damage the mating surfaces when removing the cylinder head cover and cylinder head.

SPECIFICATIONS

Unit: mm (in)

ITEM			STANDARD	SERVICE LIMIT
Cylinder compression			1,098 kPa (11.2 kgf/cm ² , 159 psi) at 550 rpm	–
Cylinder head warpage			–	0.05 (0.002)
Rocker arm	Rocker arm I.D.	IN/EX	10.000 – 10.015 (0.3937 – 0.3943)	10.10 (0.398)
	Rocker arm shaft O.D.	IN/EX	9.972 – 9.987 (0.3926 – 0.3932)	9.91 (0.390)
	Arm-to-shaft clearance	IN/EX	0.013 – 0.043 (0.0005 – 0.0017)	0.08 (0.003)
Camshaft	Cam lobe height	IN	32.542 – 32.782(1.2812 – 1.2906)	32.52 (1.280)
		EX	32.263 – 32.503 (1.2702 – 1.2796)	32.24 (1.269)
Valve, valve guide	Valve clearance	IN	0.16 ± 0.02 (0.006 ± 0.001)	–
		EX	0.25 ± 0.02 (0.010 ± 0.001)	–
	Valve stem O.D.	IN	4.975– 4.990 (0.1959 – 0.1965)	4.90 (0.193)
		EX	4.955 – 4.970 (0.1951 – 0.1957)	4.90 (0.193)
	Valve guide I.D.	IN/EX	5.000 – 5.012 (0.1969 – 0.1973)	5.03 (0.198)
	Stem-to-guide clearance	IN	0.010 – 0.037 (0.0004 – 0.0015)	0.08 (0.003)
		EX	0.030 – 0.057 (0.0012 – 0.0022)	0.10 (0.004)
Valve guide projection above cylinder head	IN/EX	9.1 – 9.3 (0.36 – 0.37)	–	
Valve spring free length	IN/EX	Outer	38.33 (1.509)	37.04 (1.458)
		Inner	31.53 (1.241)	30.66 (1.207)

TORQUE VALUES

Cylinder head cover special bolt	12 N·m (1.2 kgf·m, 9 lbf·ft)	Apply engine oil to the threads and seating surface.
Camshaft holder nut	18 N·m (1.8 kgf·m, 13 lbf·ft)	
Cam sprocket socket bolt	8 N·m (0.82 kgf·m, 5.9 lbf·ft)	Apply engine oil to the threads and seating surface.
Cam chain tensioner lifter screw	4 N·m (0.41 kgf·m, 3.0 lbf·ft)	