

CYLINDER HEAD/VALVES

SPECIFICATIONS

Unit: mm (in)

ITEM			STANDARD	SERVICE LIMIT
Cylinder compression			1,275 kPa (13.0 kgf/cm ² , 185 psi) at 350 rpm	—————
Cylinder head warpage			—————	0.10 (0.004)
Valve, valve guide	Valve clearance	IN	0.16 ± 0.03 (0.006 ± 0.001)	—————
		EX	0.22 ± 0.03 (0.009 ± 0.001)	—————
	Valve stem O.D.	IN	4.975 – 4.990 (0.1959 – 0.1965)	4.965 (0.1955)
		EX	4.960 – 4.975 (0.1953 – 0.1959)	4.950 (0.1949)
	Valve guide I.D.	IN	5.000 – 5.012 (0.1969 – 0.1973)	5.040 (0.1984)
		EX	5.000 – 5.012 (0.1969 – 0.1973)	5.040 (0.1984)
	Stem-to-guide clearance	IN	0.010 – 0.037 (0.0004 – 0.0015)	—————
		EX	0.025 – 0.052 (0.0010 – 0.0020)	—————
Valve guide projection above cylinder head	IN	16.3 – 16.5 (0.64 – 0.65)	—————	
	EX	16.3 – 16.5 (0.64 – 0.65)	—————	
Valve seat width	IN/EX	0.90 – 1.10 (0.035 – 0.043)	1.5 (0.06)	
Valve spring free length	Inner	IN/EX	37.4 (1.47)	35.4 (1.39)
	Outer	IN/EX	40.6 (1.60)	38.6 (1.52)
Valve lifter	Valve lifter O.D.	IN/EX	25.978 – 25.993 (1.0228 – 1.0233)	25.97 (1.022)
	Valve lifter bore I.D.	IN/EX	26.010 – 26.026 (1.0240 – 1.0246)	26.04 (1.025)
Camshaft	Cam lobe height	IN	38.42 – 38.50 (1.513 – 1.516)	38.12 (1.501)
		EX	38.38 – 38.46 (1.511 – 1.514)	38.08 (1.499)
	Runout	—————	0.05 (0.002)	
Oil clearance	—————	0.020 – 0.074 (0.0008 – 0.0029)	0.10 (0.004)	

TORQUE VALUES

Cylinder head cover bolt	10 N·m (1.0 kgf·m, 7 lbf·ft)	
Breather plate flange bolt	12 N·m (1.2 kgf·m, 9 lbf·ft)	Apply a locking agent to the threads CT bolt.
Camshaft holder flange bolt	12 N·m (1.2 kgf·m, 9 lbf·ft)	Apply oil to the threads.
Cylinder head scaling bolt	32 N·m (3.3 kgf·m, 24 lbf·ft)	Apply a locking agent to the threads.
Cylinder head mounting bolt	69 N·m (7.0 kgf·m, 51 lbf·ft)	Apply molybdenum disulfide oil to the threads. (after removing anti-rust oil additive).
Cylinder head SH bolt	10 N·m (1.0 kgf·m, 7 lbf·ft)	
Cam sprocket bolt	20 N·m (2.0 kgf·m, 14 lbf·ft)	Apply a locking agent to the threads.
Cam chain tensioner cap nut	12 N·m (1.2 kgf·m, 9 lbf·ft)	
Cam chain tensioner lifter mounting bolt	10 N·m (1.0 kgf·m, 7 lbf·ft)	
Cam chain tensioner lifter sealing bolt	12 N·m (1.2 kgf·m, 9 lbf·ft)	
Cam chain guide A mounting bolt	12 N·m (1.2 kgf·m, 9 lbf·ft)	
Cylinder head stud bolt	See page 1-15	
PAIR reed valve cover flange bolt	10 N·m (1.0 kgf·m, 7 lbf·ft)	
Vacuum joint plug socket bolt	3 N·m (0.3 kgf·m, 2.2 lbf·ft)	
Cam pulse generator cover SH bolt	12 N·m (1.2 kgf·m, 9 lbf·ft)	