

10. CYLINDER HEAD/VALVES

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SERVICE INFORMATION

GENERAL

- This section covers service of the cylinder head, valves.
- The cylinder head and valves services can be done with the engine installed in the frame.
- 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.
- Clean the oil passages before assembling cylinder head.
- 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		1,370 kpa (13.9 kgf/cm ² , 197.7 psi) at 680 min ⁻¹ (rpm)	—
Cylinder head warpage		—	0.05 (0.002)
Valve, valve guide	Valve clearance	IN 0.16 ± 0.03 (0.006 ± 0.001)	—
		EX 0.25 ± 0.03 (0.010 ± 0.001)	—
	Valve stem O.D.	IN 3.775 – 3.790 (0.1486 – 0.1492)	3.7 (0.15)
		EX 3.765 – 3.780 (0.1482 – 0.1488)	3.7 (0.15)
	Valve guide I.D.	IN/EX 3.800 – 3.812 (0.1496 – 0.1501)	3.89 (0.153)
	Stem-to-guide clearance	IN 0.010 – 0.037 (0.0004 – 0.0015)	0.075 (0.0029)
		EX 0.020 – 0.047 (0.0008 – 0.0019)	0.085 (0.0033)
	Valve guide projection above cylinder head	IN 15.5 (0.61)	—
EX 13.1 (0.52)		—	
Valve seat width	IN/EX 1.2 – 1.6 (0.05 – 0.06)	1.9 (0.07)	
Valve spring free length	IN/EX 39.7 (1.56)	38.5 (1.52)	
Valve lifter	O.D.	22.478 – 22.493 (0.8850 – 0.8855)	22.47 (0.885)
	Bore I.D.	21.1 – 21.3 (0.83 – 0.84)	22.5 (0.89)
Camshaft	Cam lobe height	IN 35.12 – 35.20 (1.383 – 1.386)	35.073 (1.3808)
		EX 34.71 – 34.79 (1.367 – 1.370)	34.662 (1.3646)
	Runout	—	0.02 (0.001)
	Camshaft holder I.D.	IN/EX 17.000 – 17.018 (0.6693 – 0.6700)	17.027 (0.6703)
	Camshaft O.D.	IN/EX 16.966 – 16.984 (0.6680 – 0.6687)	16.960 (0.6677)
	Camshaft-to-camshaft holder clearance	IN/EX 0.016 – 0.052 (0.0006 – 0.0020)	0.067 (0.0026)