

**HONDA**
C70

6. CYLINDER HEAD/VALVE

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SERVICE INFORMATION

GENERAL INSTRUCTIONS

- This section covers maintenance and inspection of the cylinder head, valves, camshaft and rocker arms. These services can be done with the engine installed.
- Camshaft and rocker arm lubricating oil is fed through oil passages. Be sure the passages are not clogged.
- During assembly, apply molybdenum disulfide grease to the camshaft bearings to provide initial lubrication.

TOOLS

Special

Valve Guide Reamer	07984-0980000
Valve Guide Driver	07942-1180100

Common

Valve Guide Remover, 5.5 mm	07742-0010100 or 07942-3290100
Valve Spring Compressor	07757-0010000 or 07957-3290001

TORQUE VALUES

Cylinder head	0.9 – 1.2 kg-m (7 – 9 ft-lb)
Cam chain sprocket	0.5 – 0.9 kg-m (4 – 7 ft-lb)

SPECIFICATIONS

			STANDARD	SERVICE LIMIT	
Compression pressure			12.5 ± 0.5 kg/cm ² (178 ± 7 psi)	—	
Camshaft	Cam height	IN.	26.07 mm (1.026 in)	25.69 mm (1.011 in)	
		EX.	26.07 mm (1.026 in)	25.69 mm (1.011 in)	
	Oil clearance		0.010 – 0.025 mm (0.0004 – 0.0010 in)	0.05 mm (0.002 in)	
	Side clearance		0.004 – 0.036 mm (0.0002 – 0.0014 in)	0.10 mm (0.004 in)	
Rocker arm shaft O.D.			9.978 – 9.989 mm (0.3928 – 0.3933 in)	9.91 mm (0.390 in)	
Rocker arm I.D.			10.000 – 10.015 mm (0.3937 – 0.3943 in)	10.10 mm (0.398 in)	
Valve spring	Free length	Inner	25.1 mm (0.99 in)	23.9 mm (0.94 in)	
		Outer	28.1 mm (1.11 in)	26.9 mm (1.06 in)	
	Preload/length		Inner	2.45 – 2.75 kg/22.7 mm (5.401 – 6.063 lbs/0.89 in)	2.3 kg/22.7 mm (5.07 lbs/0.89 in)
			Outer	6.65 – 7.75 kg/24.9 mm (14.661 – 17.086 lbs/0.98 in)	6.3 kg/24.9 mm (13.89 lbs/0.98 in)
Valve guide/ valve	Valve stem O.D.	IN.	5.455 – 5.465 mm (0.2148 – 0.2152 in)	5.400 mm (0.2126 in)	
		EX.	5.435 – 5.445 mm (0.2140 – 0.2144 in)	5.400 mm (0.2126 in)	
	Valve guide I.D.	IN.	5.475 – 5.485 mm (0.2156 – 0.2159 in)	5.500 mm (0.2165 in)	
		EX.	5.475 – 5.485 mm (0.2156 – 0.2159 in)	5.500 mm (0.2165 in)	
	Stem-to-guide clearance	IN.	0.010 – 0.030 mm (0.0004 – 0.0012 in)	0.08 mm (0.003 in)	
		EX.	0.030 – 0.050 mm (0.0012 – 0.0020 in)	0.10 mm (0.004 in)	
Valve seat width			1.0 mm (0.04 in)	1.6 mm (0.06 in)	
Cylinder head warpage			—	0.05 mm (0.002 in)	