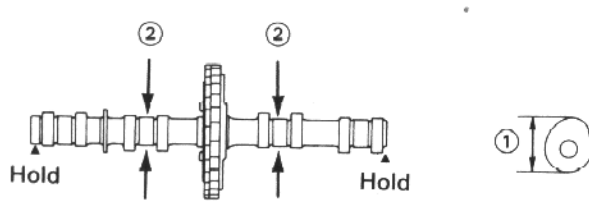
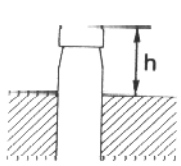


GENERAL INFORMATION

Cylinder head

Unit: mm (in)

Item	Standard	Service limit
Cylinder compression	1,280–1,320 kPa (12.8–13.2 kg/cm ² , 182–188 psi)/400 rpm	—
Cylinder compression difference	Within 30 mmHg (1.2 inHg) of each other	—
Valve clearance IN	0.12–0.18 (0.005–0.007)	—
(cold) EX	0.17–0.23 (0.007–0.009)	—
Cylinder head warpage	—	0.1 (0.004)
Cam lobe height ① IN	33.070–33.230 (1.3020–1.3083)	33.02 (1.300)
IN (California model)	—	—
EX	33.120–33.280 (1.3039–1.3102)	33.07 (1.302)
EX (California model)	—	—
Camshaft runout ②	—	0.05 (0.002)
Camshaft oil clearance	0.020–0.062 (0.0008–0.0024)	0.10 (0.004)
		
Camshaft journal O.D.	22.959–22.980 (0.9039–0.9047)	22.965 (0.9041)
Camshaft holder I.D.	—	—
Valve stem O.D. IN	3.775–3.790 (0.1486–0.1492)	3.70 (0.146)
EX	3.755–3.770 (0.1478–0.1484)	3.69 (0.145)
Valve guide I.D. IN	3.800–3.812 (0.1496–0.1253)	3.89 (0.153)
EX	3.800–3.812 (0.1496–0.1253)	3.89 (0.153)
Stem-to-guide clearance IN	—	0.04 (0.002)
EX	—	0.05 (0.002)
Valve guide projection above cylinder head (h) IN	13.37–13.77 (0.526–0.542)	—
EX	11.52–11.92 (0.454–0.469)	—
 Before guide installation: 1. Chill the valve guides in the freezer section of a refrigerator for about an hour. 2. Heat the cylinder head to 100–150°C (212–300°F).		
Valve seat width	0.9–1.1 (0.035–0.043)	1.5 (0.06)
Valve spring free length IN	39.40 (1.551)	38.6 (1.52)
EX	39.40 (1.551)	38.6 (1.52)
inner IN	—	—
inner EX	—	—
outer IN	—	—
outer EX	—	—
Rocker arm I.D. IN	—	—
EX	—	—
Rocker arm shaft O.D. IN	—	—
EX	—	—
Rocker arm-to-rocker arm shaft clearance	—	—
Valve lifter O.D.	—	—
Valve lifter bore I.D.	—	—
Hydraulic lash adjuster assist spring free length	—	—
Hydraulic lash adjuster compression stroke with kerosene	—	—