

# Standards and Service Limit

## Cylinder Head/Valve Train — Sections 6

	MEASUREMENT			STANDARD (NEW)	SERVICE LIMIT
Compression	200 rpm and wide open throttle kPa (kg/cm <sup>2</sup> , psi)	Nominal Minimum Maximum variation		1,400 (14.0, 199) 1,000 (10.0, 142) 200 (2.0, 28)	
Cylinder head	Warpage Height			— 150.95-151.05 (5.9429-5.9468)	0.05 (0.002) —
Camshaft	End play Camshaft-to-holder oil clearance Total runout Cam lobe Height	M/T IN Primary Mid Secondary EX Primary Mid Secondary A/T IN Primary Mid Secondary EX Primary Mid Secondary		0.05-0.15 (0.002-0.006) 0.050-0.089 (0.002-0.004) 0.03 (0.0012) 37.086 (1.4601) 38.037 (1.4975) 37.326 (1.4695) 36.559 (1.4393) 37.398 (1.4724) 36.741 (1.4465) 37.266 (1.4672) 37.655 (1.4825) 37.504 (1.4765) 36.559 (1.4393) 37.398 (1.4724) 36.741 (1.4465)	0.5 (0.02) 0.15 (0.006) 0.06 (0.0024) — — — — — — — — — — — —
Valve	Valve clearance Valve stem O.D. Stem-to-guide clearance	IN EX IN EX IN EX		0.15-0.19 (0.006-0.007)*3 0.17-0.21 (0.007-0.008)*3 5.475-5.485 (0.2156-0.2159) 5.45-5.46 (0.2146-0.2150) 0.025-0.055 (0.001-0.002) 0.05-0.08 (0.002-0.003)	— — 5.445 (0.2144) 5.42 (0.2134) 0.08 (0.003) 0.11 (0.004)
Valve seat	Width Stem installed height	IN EX IN EX		0.80-1.00 (0.031-0.039) 1.25-1.55 (0.049-0.061) 41.55-42.35 (1.6358-1.6673) 41.55-42.35 (1.6358-1.6673)	1.5 (0.059) 2.0 (0.079) 42.435 (1.6707) 42.435 (1.6707)
Valve spring	Free length	M/T IN Outer Inner EX A/T IN EX		43.23 (1.7020) *1 43.24 (1.7024) *2 39.79 (1.5665) *1 39.82 (1.5677) *2 46.00 (1.8110) *1 45.98 (1.8102) *2 44.59 (1.7555) *1 44.60 (1.7559) *2 47.40 (1.8661) *1 47.43 (1.8673) *2	} 42.40 (1.6693) } 39.02 (1.5362) } 45.12 (1.7764) } 43.73 (1.7217) } 46.69 (1.8382)
Valve guide	I.D. Installed height	IN and EX IN and EX		5.51-5.53 (0.2169-0.2177) 13.75-14.25 (0.5413-0.5610)	5.53 (0.218) 14.50 (0.5709)
Rocker arm	Arm-to-shaft clearance	Primary and Secondary Mid IN and EX IN and EX		0.025-0.052 (0.0010-0.0020) 0.024-0.053 (0.0009-0.0021)	0.08 (0.003) 0.08 (0.003)

\*1: NIHON HATSUJO made, \*2: CHUO HATSUJO made.  
M/T: Manual Transmission A/T: Automatic Transmission

\*3: Measured between the rocker arm and camshaft.