

Fig. 49 Valve removal
① Valve spring compressor (Tool No. 07031-10701)

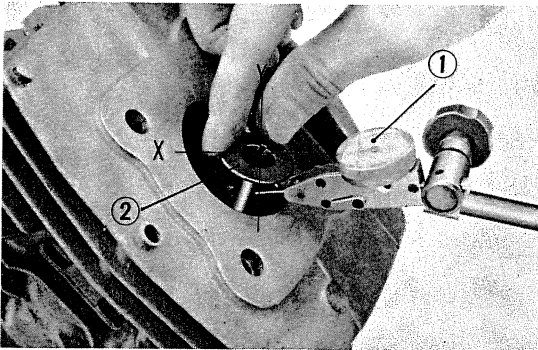


Fig. 50 Valve stem clearance measurement
① Dial gauge ② Valve

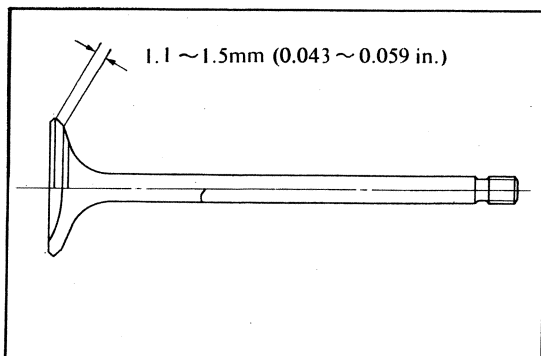


Fig. 51 Valve face

4. VALVE REMOVAL

A. Disassembly

- 1) Remove the cylinder head in accordance with section 3. A.
- 2) Compress valve spring with a valve lifter and remove valve cotter and valve spring. The valve can then be removed. (Fig. 49)

B. Inspection

- 1) Valve stem clearance is measured by raising the valve off its seat and measuring the amount of side play by applying the dial gauge against the valve head.

The play is measured along both the X and Y axes. (Fig. 50)

Exhaust valve with a TIR of greater than 0.08 mm (0.0032 in.) or inlet valve with TIR greater than 0.1 mm (0.004 in.) should have either the valve or guide replaced.

Item	Standard value	Serviceable limit
Valve stem diameter	IN 5.450-5.465mm (0.2145-0.2150 in.)	5.420mm min. (0.2130 in.)
	EX 5.430-5.445mm (0.2138-0.2146 in.)	5.400mm min. (0.2126 in.)

- 2) Valve guide replacement

Remove and reinstall valve guide using a valve guide driver (special tool No. 07046-21601). Use an oversize replacement valve guide. After replacing the valve guide, run a reamer through the valve guide to assure that the guide will be of standard diameter.

- 3) Valve face dimensional check

Apply thin coating of red lead or bluing on the valve face, press valve against the valve seat and rotate. Remove and check to see if there is a uniform width impression of the valve face. (Fig. 51)

Item	Standard value	Serviceable limit
Valve seat width	0.7mm (0.028 in.)	1.5mm max. (0.059 in.)