

CYLINDER HEAD/VALVES

● VALVE SPRINGS

Measure the free length of the inner and outer valve springs.

SERVICE LIMITS:

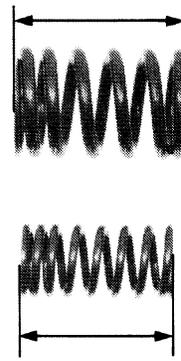
INNER (IN): 32.2 mm (1.27 in)

(EX): 32.2 mm (1.27 in)

OUTER (IN): 36.3 mm (1.43 in)

(EX): 36.3 mm (1.43 in)

Replace the springs if they are shorter than the service limits.



● VALVE STEM-TO-GUIDE CLEARANCE

Inspect each valve for bending, burning or abnormal stem wear.

Check valve movement in the guide and measure and record each valve stem O.D.

SERVICE LIMITS: IN : 5.45 mm (0.215 in)

EX: 5.43 mm (0.214 in)

NOTE

- Ream the guides to remove any carbon deposits before checking clearances.

Measure and record each valve guide I.D.

SERVICE LIMIT: 5.525 mm (0.2175 in)

Subtract each valve stem O.D. from the corresponding guide I.D. to obtain the stem to guide clearance.

SERVICE LIMITS: IN: 0.12 mm (0.005 in)

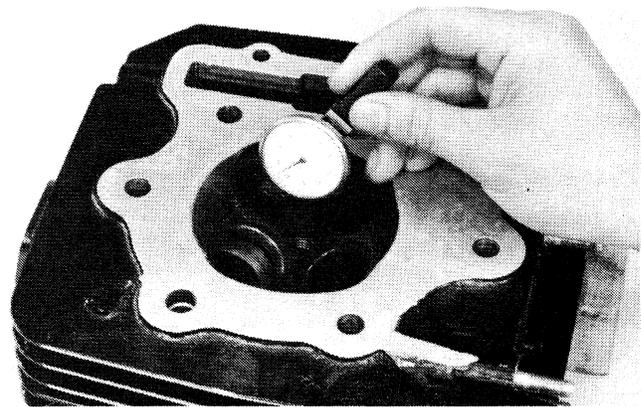
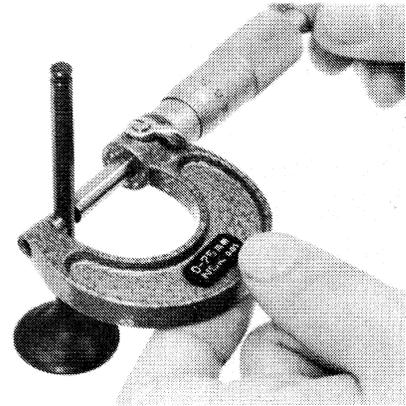
EX: 0.14 mm (0.006 in)

If the stem-to-guide clearance exceeds the service limits, determine if a new guide with standard dimensions would bring the clearance within tolerance. If so, replace any guides as necessary and ream to fit.

If the stem-to-guide clearance exceeds the service limits with new guides also, replace the valves.

NOTE

- Reface the valve seats whenever the valve guides are replaced.



(1) VALVE GUIDE REMOVER
07742-0010100 OR 07942-3290100

