

Measure the cylinder valve clearance by inserting a feeler gauge between the valve lifter and cam lobe.

**VALVE CLEARANCE:**

- IN: 0.16 ± 0.03 mm (0.006 ± 0.001 in)
- EX: 0.25 ± 0.03 mm (0.010 ± 0.001 in)



**ADJUSTMENT**

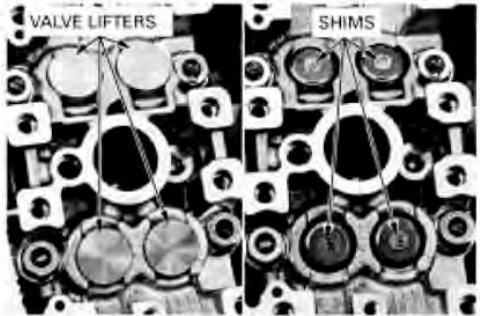
Remove the camshaft (page 10-5).

Remove the valve lifters and shims.

Clean the valve shim contact area in the valve lifter with compressed air.

**NOTE:**

- Shim may stick to the inside of the valve lifter. Do not allow the shims to fall into the crankcase.
- Mark all valve lifters and shims to ensure correct reassembly in their original locations.
- The valve lifter can be easily removed with a valve lapping tool or magnet.
- The shims can be easily removed with a tweezers or magnet.



Measure the shim thickness and record it.

**NOTE:**

Sixty-nine different thickness shims are available from the thinnest (1.200 mm thickness) shim to the thickest (2.900 mm thickness) in intervals of 0.025 mm.

Calculate the new shim thickness using the equation below.

$$A = (B - C) + D$$

- A: New shim thickness
- B: Recorded valve clearance
- C: Specified valve clearance
- D: Old shim thickness

**NOTE:**

- Make sure of the correct shim thickness by measuring the shim with the micrometer.
- Reface the valve seat if carbon deposits result in a calculated dimension of over 2.900 mm.

