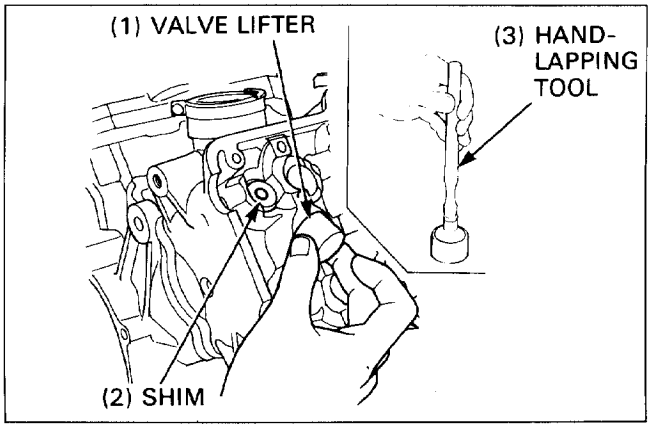
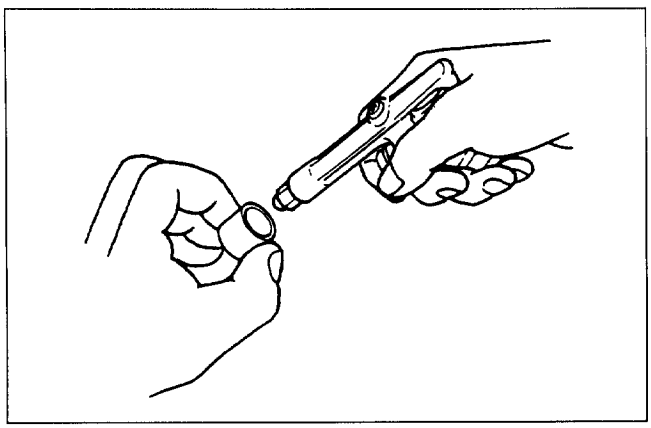
If the clearance is not correct:
Remove the camshafts (page 8-2).
Remove the valve lifters and shims.

NOTE

- Do not allow shims to fall into the crankcase. The shim(s) may occasionally stick to the lifter.
- Mark all lifters and shims to ensure correct reassembly.
- It is easy to remove the valve lifter with a valve lapping tool or magnet.
- Remove the shims with tweezers or a magnet.



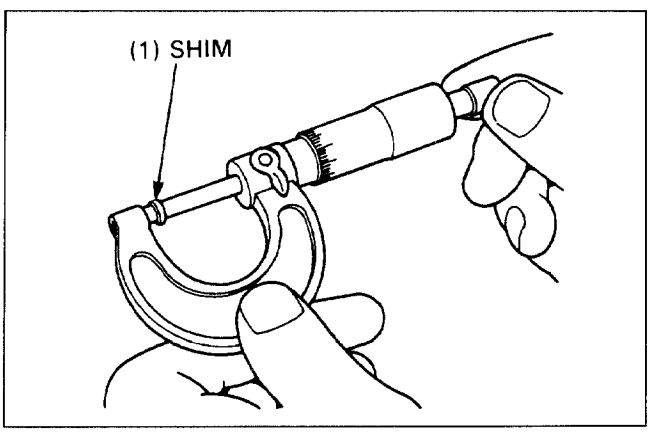
Shim selection:
Clean the valve retainers with compressed air.



Measure the shim thickness with a micrometer and record it.

NOTE:

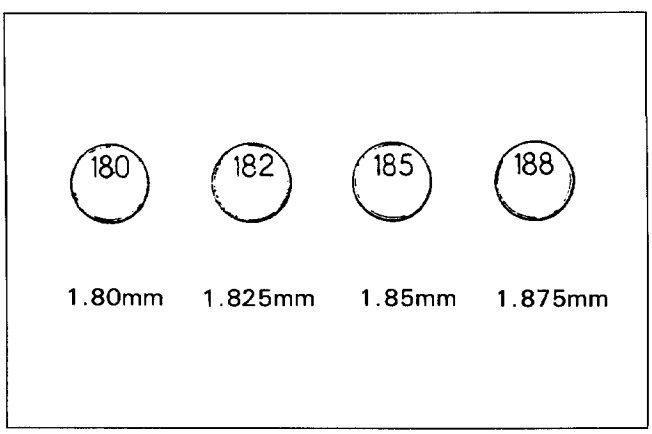
- Sixtyfive shims are available in thickness intervals of 0.025 mm.
  The thinnest is 1.200 mm, the thickest is 2.800 mm.



To confirm your shim choice, you may use the following formula:
a = (b−c)+d
a: New shim thickness
b: Recorded valve clearance
c: Specified valve clearance
d: Old shim thickness

Example:
Recorded valve clearance: 0.06 mm
Old shim thickness: 1.875 mm
Specified valve clearance: 0.16 mm

a=(0.06−0.16)+1.875 mm
a=1.775



NOTE

- If the required thickness of the new shim is more than 2.800 mm, the valve seat is probably heavily carboned. Reface the seat, recheck valve clearance and reselect the shim.