



# Camshafts/Rocker Arms and Camshaft Seals

## Installation

### CAUTION:

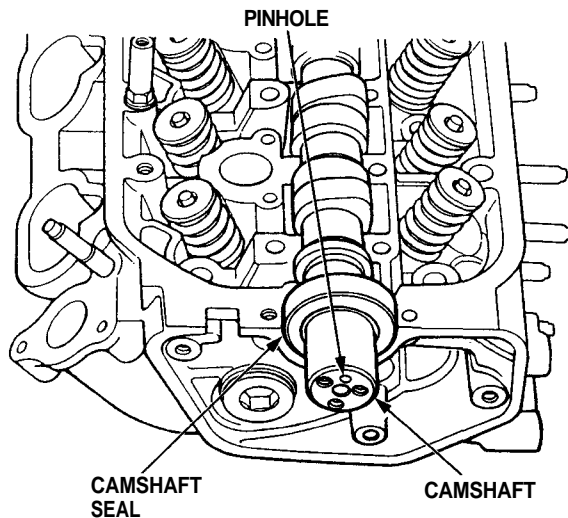
- Make sure that all rockers are in alignment with valves when torquing rocker assembly bolts.
- To prevent rocker arm assembly from coming apart, leave the camshaft holder mounting bolts in the holes.
- Handle the rocker arms carefully so that the oil does not come out of hydraulic tappets.

1. After wiping down the camshaft and journals in cylinder head, lubricate both surfaces and install camshaft.

 Lubricate camshaft lobes after reassembly.

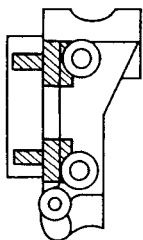
2. Set the camshaft and camshaft seal as shown below.

NOTE: The pin hole is at the top position.

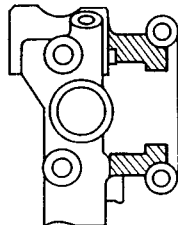


Seal housing surface should be dry.  
Apply a light coat of oil to camshaft  
and inner lip of seal.

3. Apply liquid gasket to the head mating surfaces of the No. 1 and the No. 7 camshaft holders.  
– Apply liquid gasket to the shaded areas.

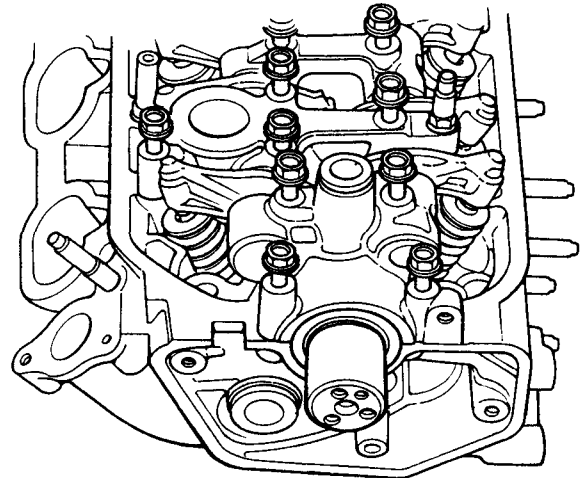


No. 7 (LEFT HEAD)  
Similar  
No. 1 (RIGHT HEAD)



No. 1 (LEFT HEAD)  
Similar  
No. 7 (RIGHT HEAD)

4. Set the rocker arm assembly (see page 6-13) in place and loosely install the bolts.  
– Make sure that the rocker arms are properly positioned on the valve stems.



5. Tighten each bolt two turns at a time in the sequence shown below to ensure that the rockers do not bind on the valves.

### Specified torque:

8 mm bolts: 22 N-m (2.2 kg-m, 16 lb-ft)

6 mm bolts: 12 N-m (1.2 kg-m, 9 lb-ft)

