

# CAMSHAFT INSPECTION

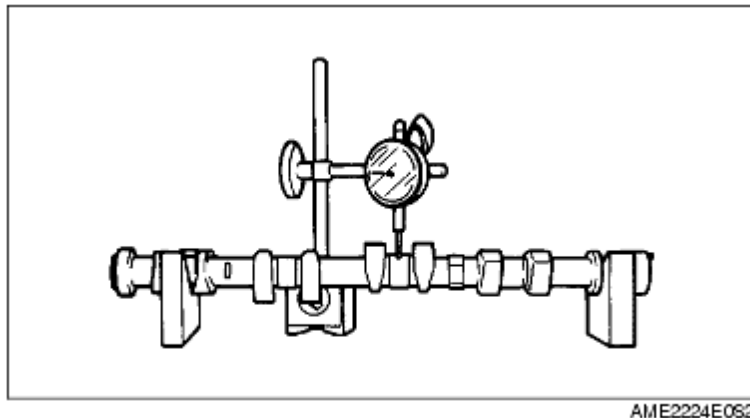
A6E242412420E01

1. Set the No.1 and No.5 journals on V-blocks.

2. Measure the camshaft runout.

- If not as specified, replace the camshaft.

Maximum runout:  
0.03 mm {0.0012 in}



AME2224E082

3. Measure the cam lobe height at the two points as shown.

- If not as specified, replace the camshaft.

Standard height (mm) {in}

Camshaft	L8	LF, L3	L3 (with variable valve timing mechanism)
INT	40.79 {1.606}	42.12 {1.659}	42.44 {1.671}
EXH	41.08 {1.618}	41.08 {1.618}	41.18 {1.622}

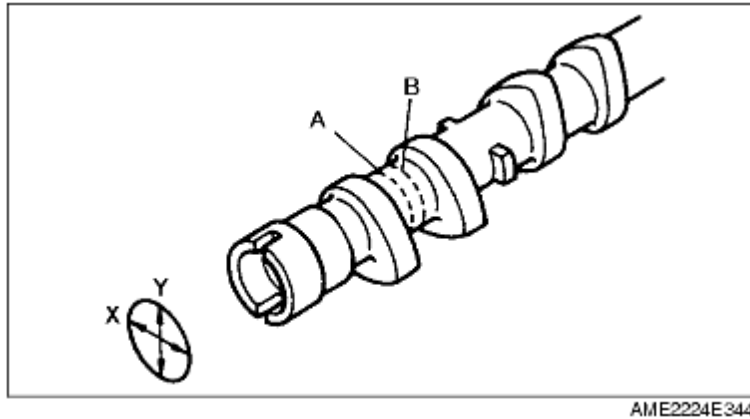
Minimum height (mm) {in}

Camshaft	L8	LF, L3	L3 (with variable valve timing mechanism)
INT	40.692 {1.603}	42.022 {1.655}	42.342 {1.667}
EXH	40.982 {1.614}	40.982 {1.614}	41.082 {1.618}

4. Measure the journal diameters in X and Y directions at the two points (A and B) as indicated in the figure.

- If not as specified, replace the camshaft.

Standard diameter:  
24.96-24.98 mm {0.9827-0.9834 in}  
Minimum diameter:  
24.95 mm {0.982 in}



5. Remove the tappet.

6. Position plasticgag atop the journals in the axial direction.

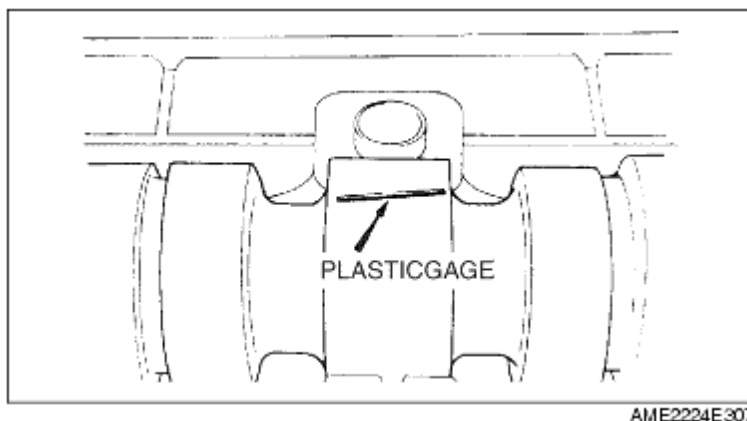
7. Install the camshaft cap. (See [Camshaft Assembly Note](#).)

8. Remove the camshaft cap. (See [Camshaft Cap Disassembly Note](#).)

9. Measure the oil clearance.

- If not as specified, replace the cylinder head.

Standard clearance:  
0.04-0.08 mm {0.002-0.003 in}  
Maximum clearance:  
0.09 mm {0.0035 in}

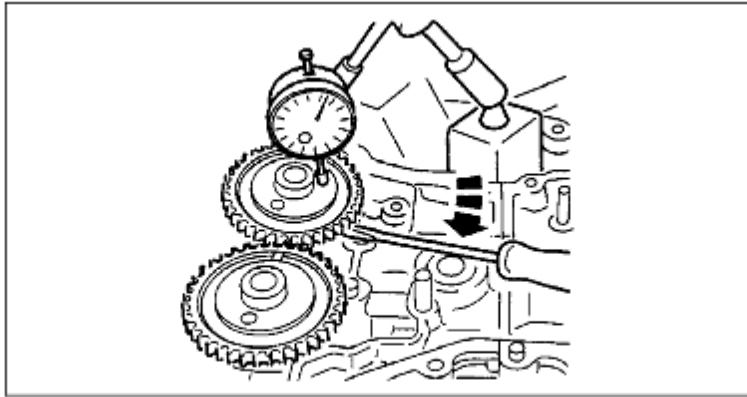


10. Install the camshaft cap. (See [Camshaft Assembly Note](#).)

11. Measure the camshaft end play.

- If not as specified, replace the cylinder head or camshaft.

Standard end play:  
0.09-0.24 mm {0.0035-0.0094 in}  
Maximum end play:  
0.25 mm {0.0099 in}



12. Remove the camshaft cap. (See [Camshaft Cap Disassembly Note](#).)