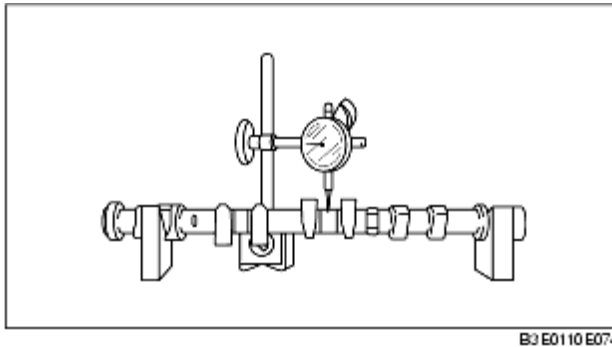


# CAMSHAFT INSPECTION

B3E011012420201

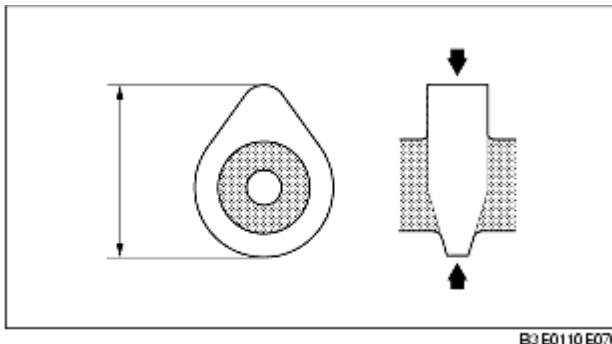
1. Set the No.1 and No.5 journals on V-blocks.
2. Measure the camshaft runout.
  - If it exceeds the specification, replace the camshaft.



B3 E0110 E074

**Maximum runout**  
**0.03 mm {0.0012 in}**

3. Measure the cam lobe height at the two points as shown in the figure.
  - If it is less than the specification, replace the camshaft.



B3 E0110 E076

## Standard height (mm {in})

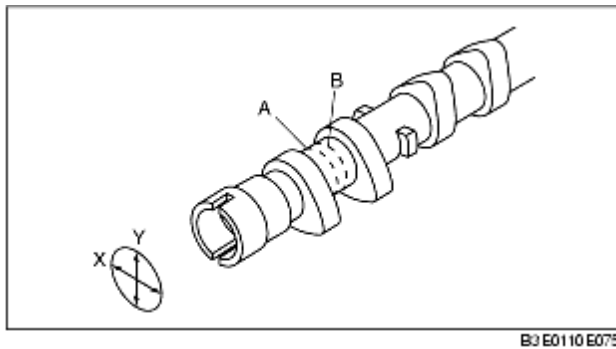
Camshaft	L8	LF, L3	L3 (with variable valve timing mechanism)
IN	40.79 {1.606}	42.12 {1.659}	42.44 {1.671}
EX	41.08 {1.618}		41.18 {1.621}

## Minimum height (mm {in})

Camshaft	L8	LF, L3	L3 (with variable valve timing mechanism)
IN	40.692 {1.603}	42.022 {1.655}	42.342 {1.667}
EX	40.982 {1.614}		41.082 {1.617}

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

- If it is less than the specification, replace the camshaft.

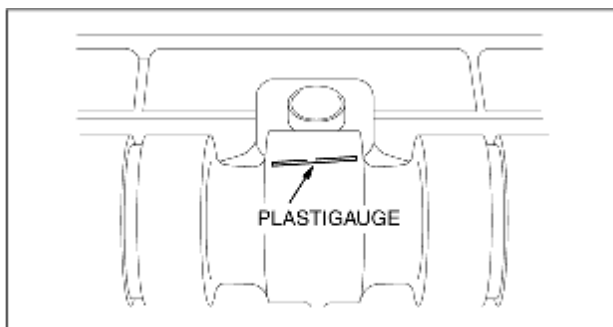


B3 E0110 E075

**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 a plastigauge atop the journals in the axial direction.



B3 E0110 E077

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 it exceeds the specification, 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 it exceeds the specification, 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](#).)