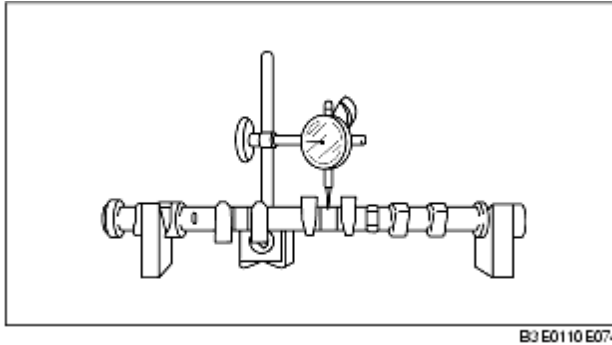


CAMSHAFT INSPECTION

B3E011012420E01

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

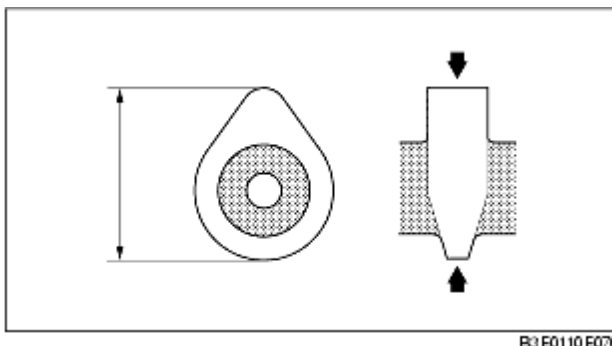


2. Measure the camshaft runout using a dial gauge.

- If it exceeds the maximum specification, replace the camshaft.

Maximum runout
0.03 mm {0.001 in}

3. Measure the cam lobe height as shown using the micrometer.



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

Standard cam lobe height (mm {in})

Camshaft	ZJ	ZY, Z6
IN	41.373 {1.6289}	
EX	40.597 {1.5983}	41.495 {1.6337}

Minimum cam lobe height (mm {in})

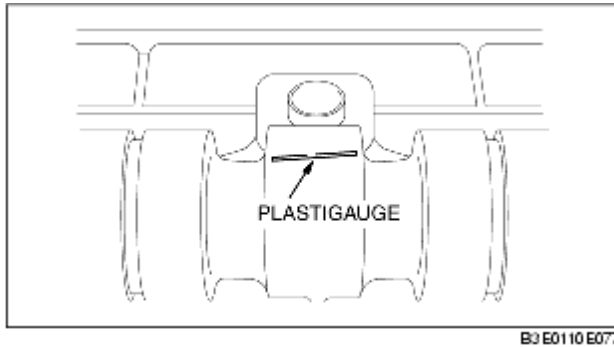
Camshaft	ZJ	ZY, Z6
IN	41.30 {1.6260}	
EX	40.53 {1.5957}	41.43 {1.6311}

4. Measure the journal diameter using the micrometer. Measurement positions total four, and they are in the X and Y directions, at the two points (A and B) as shown in the figure.

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

Standard journal diameter
25.940-25.965 mm {1.0213-1.0222 in}
Minimum journal diameter
24.910 mm {0.9807 in}

5. Measure the camshaft journal oil clearance using a plastigauge with the tappet removed.

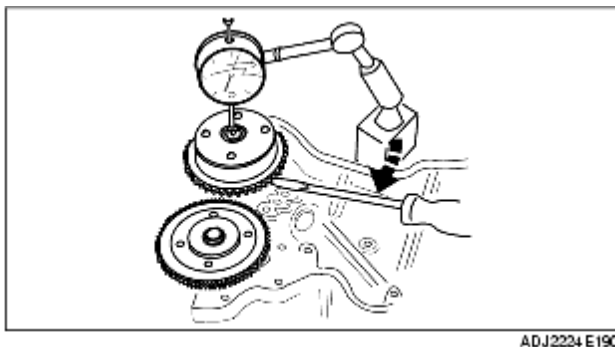


Note

- Clean the camshaft journal and the journal receptacle part.
- Cut the plastigauge to the same length as the journal width and position it in parallel to the camshaft.
- If it exceeds the specification, replace the cylinder head.

Standard oil clearance
0.035-0.081 mm {0.0014-0.0031 in}
Maximum oil clearance
0.09 mm {0.0035 in}

6. Measure the camshaft end play using a dial gauge.



- If it exceeds the maximum specification, replace the cylinder head or the camshaft.

Standard end play
0.07-0.19 mm {0.0027-0.0074 in}
Maximum end play
0.20 mm {0.0078 in}