## Big-end Bearing Clearance, Check, measure with micrometer (Z 22 SE)

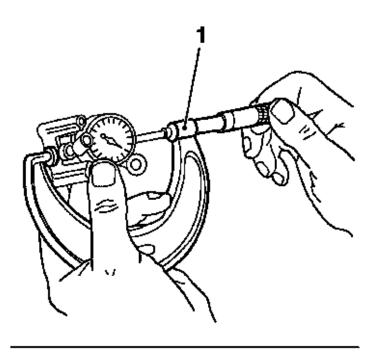


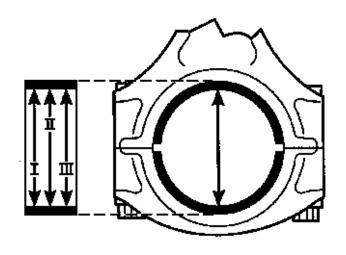
## Measure

- Fit the internal gauge and calibrate it with the micrometer (1).
   Attach the big—end bearing caps to the connecting rods.
  - Tightening torque 25 Nm + 50° + 50°
    + 10°
  - 1 Measure the diameter of the big—end bearings at 3 points.
    - Use the inside micrometer to measure at the points I, II and III.
  - 2 Measure the diameter of the big—end bearings at 3 points.
    - Use the inside micrometer to measure at the points I, II and III.
  - 3 Measure the diameter of the big—end bearings at 3 points.
    - Use the inside micrometer to measure at the points I, II and III.
  - 4 Measure the diameter of the big—end bearings at 3 points.
    - Use the inside micrometer to measure at the points I, II and III.

Calculate the mean value for the big-end bearing diameter.

• Formula: I + II + III / 3





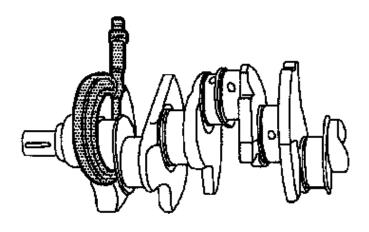
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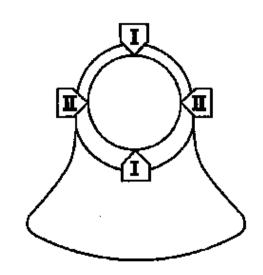
- 2.
- Determine the big—end bearing journal diameter.
- 1 Measure the diameter of the big—end bearing journals at 2 points.
  - Use a micrometer to measure at the points I and II.
- 2 Measure the diameter of the big—end bearing journals at 2 points.

- Use a micrometer to measure at the points I and II.
- 3 Measure the diameter of the big—end bearing journals at 2 points.
  - Use a micrometer to measure at the points I and II.
- 4 Measure the diameter of the big—end bearing journals at 2 points.
  - Use a micrometer to measure at the points I and II.

Calculate the mean value for the big-end bearing journal diameter.

• Formula: I + II / 2





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- **3.** Determine the big—end bearing clearance.
  - Formula: Mean big-end bearing diameter mean big-end bearing journal diameter
- 4. Comparison between specified values and actual values
  - Permissible big-end bearing clearance: 0,041 0,043 mm