

Main Bearings

Clearance

1. To check main bearing-to-journal oil clearance, remove the main caps and bearing halves.
2. Clean each main journal and bearing half with a clean shop towel.
3. Place one strip of plastigage across each main journal.

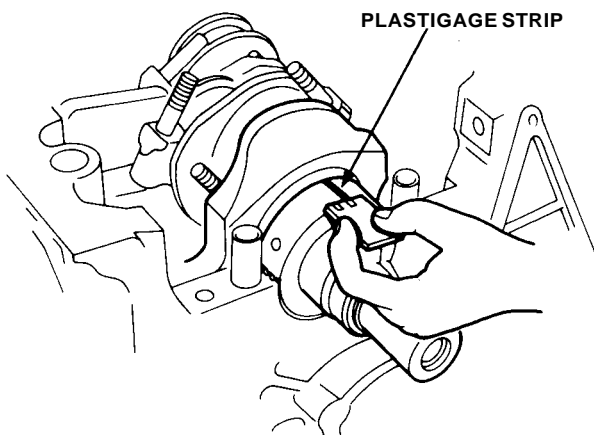
NOTE: If the engine is still in the car when you bolt the main cap down to check clearance, the weight of the crankshaft and flywheel will flatten the plastigage further than just the torque on the cap bolts, and give you an incorrect reading. For an accurate reading, support the crank with a jack under the counterweights, and check only one bearing at a time.

4. Reinstall the bearings, caps and cap bridge, then torque the 9 mm bridge bolts to 39 N-m (4.0 kgf-m, 29 lbf-ft). Torque the 11 mm cap bolts to 65 N-m (6.6 kgf-m, 48 lbf-ft).
5. Torque the side bolts to 49 N-m (5.0 kgf-m, 36 lbf-ft).
6. Remove the bridge, caps and bearings, and measure the widest part of the plastigage.

Main Bearing-to-journal Oil Clearance:

Standard (New): 0.024—0.048 mm
(0.0009-0.0019 in)

Service Limit: 0.050 mm (0.0020 in)



7. If the plastigage measures too wide or too narrow, (remove the engine if it's still in the car), remove the crankshaft, and remove the upper half of the bearing. Install a new, complete bearing with the same color code (select the color as shown on next page), and recheck the clearance.

CAUTION: Do not file, shim, or scrape the bearings or the caps to adjust clearance.

8. If the plastigage shows the clearance is still incorrect, try the next larger or smaller bearing (the color listed above or below that one), and check again.

NOTE: If the proper clearance cannot be obtained by using the appropriate larger or smaller bearings, replace the crankshaft and start over.

Connecting Rod Bearings



Clearance

1. Remove the connecting rod cap and bearing half.
2. Clean the crankshaft rod journal and bearing half with a clean shop towel.
3. Place plastigage across the rod journal.
4. Reinstall the bearing half and cap, and torque the nuts as shown on page 7-20.

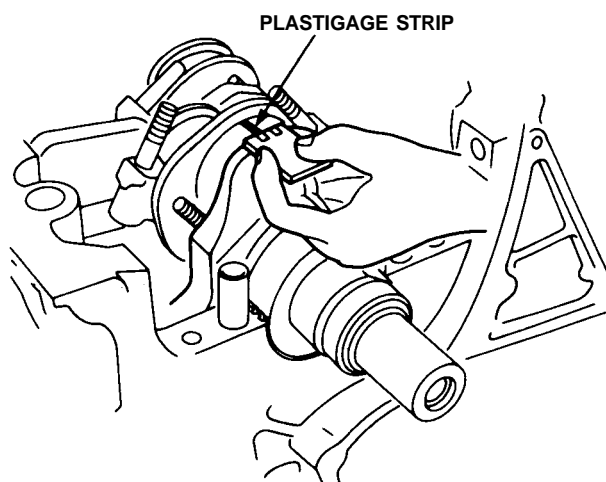
NOTE: Do not rotate the crankshaft during inspection.

5. Remove the rod cap and bearing half and measure the widest part of the plastigage. Make sure the clearance between the connecting rod and the bearing is within the standard shown below.

Connecting Rod Bearing-to-Journal Oil Clearance:

Standard (New): 0.040 - 0.064 mm
(0.0016-0.0025 in)

Service Limit: 0.064 mm (0.0025 in)



6. If the plastigage measures too wide or too narrow, remove the upper half of the bearing, install a new, complete bearing with the same color code (select color as shown on next page), and recheck the clearance.

CAUTION: Do not file, shim, or scrape the bearing or the caps to adjust clearance.

7. If the plastigage shows the clearance is still incorrect, try the next larger or smaller bearing (the color listed above or below that one), and check clearance again.

NOTE: If the proper clearance cannot be obtained by using the appropriate larger or smaller bearings, replace the crankshaft and start over.