

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.

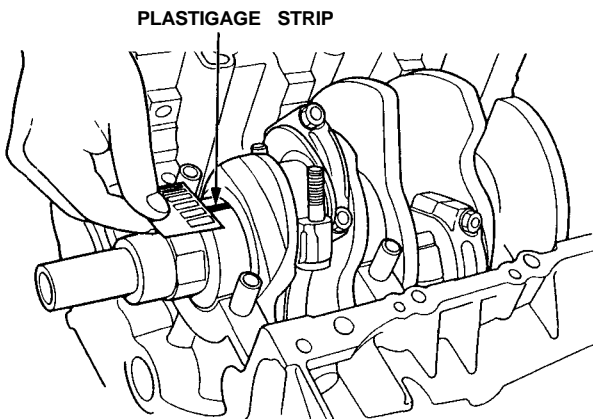
NOTE: If the engine is still in the car when you bolt the main cap down to check clearance, the weight of the crankshaft and flywheel will flatten the plastigage further than just the torque on the cap bolts, and give you an incorrect reading. For an accurate reading, support the crankshaft with a jack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

4. Reinstall the bearings and caps, then torque the 9 mm cap bolts to 40 Nm (4.0 kg-m, 29 lb-ft). Torque the 11 mm cap bolts to 78 Nm (7.8 kg-m, 57 lb-ft).
5. Torque the side bolts to 50 Nm (5.0 kg-m, 36 lb-ft).
6. Remove the caps and bearings, and measure the widest part of the plastigage.

Main Bearing-to-Journal Oil Clearance:

Standard (New): 0.020 — 0.044 mm
(0.0008 — 0.0017 in)

Service Limit: 0.05 mm (0.002 in)



If the plastigage measures too wide or too narrow, (remove the engine if it's still in the car), remove the crankshaft, remove the upper half of the bearing, then 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.

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 to 45 Nm (4.5 kg-m, 33 lb-ft).

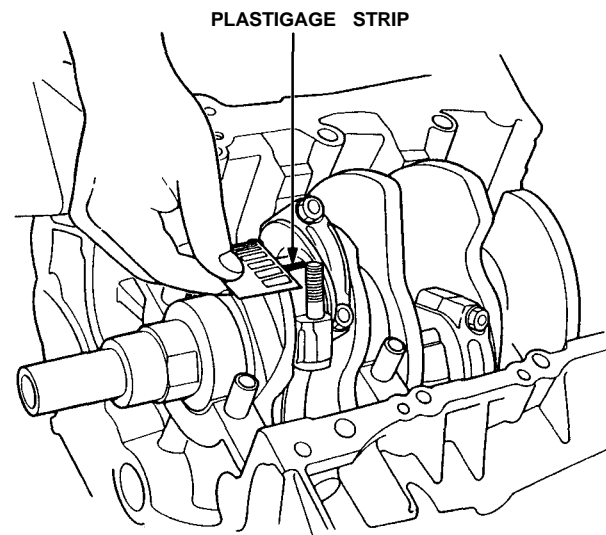
NOTE: Do not rotate the crankshaft during inspection.

5. Remove the rod cap and bearing half and measure the widest part of the plastigage.

Connecting Rod Bearing-to-Journal Oil Clearance:

Standard (New): 0.022 — 0.046 mm
(0.0009 — 0.0018 in)

Service Limit: 0.05 mm (0.002 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.