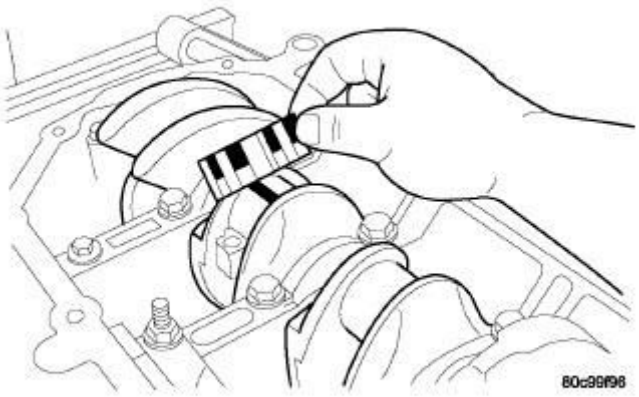

Fig. 166: Connecting Rod Bearing Clearance - Typical
Courtesy of CHRYSLER GROUP, LLC

1. For measuring connecting rod bearing clearance procedure and use of Plastigage. Refer to **MEASURING BEARING CLEARANCE USING PLASTIGAGE** . For bearing clearance refer to Engine Specifications. Refer to **2.4L ENGINE - SPECIFICATIONS** .

NOTE: The rod bolts should not be reused.

2. Before installing the **NEW** rod bolts the threads and under the bolt head should be oiled with clean engine oil.
3. Install each bolt finger tight then alternately torque each bolt to assemble the cap properly.
4. Tighten the connecting rod bolts using the 2 step torque-turn method. Tighten according to the following values:

CAUTION: Do not use a torque wrench for the second step.

1. Tighten the bolts to 20 N.m (15 ft. lbs.).
2. Tighten the connecting rod bolts an additional 90°.

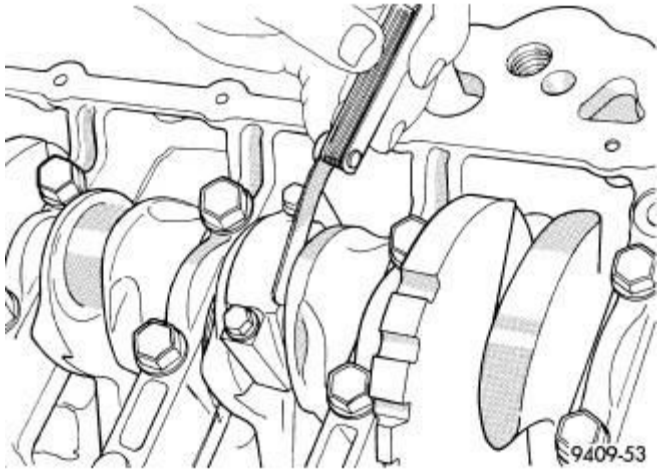

Fig. 167: Connecting Rod Side Clearance
Courtesy of CHRYSLER GROUP, LLC

5. Using a feeler gauge, check connecting rod side clearance. Refer to clearance specifications. Refer to **2.4L ENGINE - SPECIFICATIONS** .

BEARING(S), CRANKSHAFT, MAIN

STANDARD PROCEDURE

STANDARD PROCEDURE - MAIN BEARING SELECTION

NOTE: There are three different possibilities for the upper main bearings and five different lower main bearings. The upper and lower bearing shells are not interchangeable.

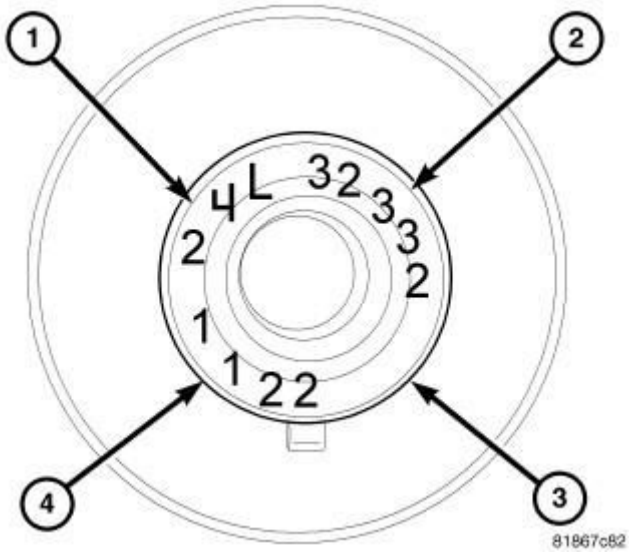

Fig. 168: Bearing Selection

Courtesy of CHRYSLER GROUP, LLC

The lower main bearing identification (2) is stamped in the nose of the crankshaft (3). There are 5 different bearing sizes available 0 through 4.

CRANKSHAFT IDENTIFICATION		LOWER CRANKSHAFT BEARING SELECTION	
JOURNAL DIAMETER GRADE	DIMENSION	LOWER MAIN BEARING SIZE CLASSIFICATION	LOWER MAIN BEARING DIMENSION
0	52 mm, -0.012 to -0.015 mm	0 (Pink or Red)	2 mm, 0 to -0.003 mm
1	52 mm, -0.015 to -0.018 mm	1 (Black)	2 mm, +0.003 to 0 mm
2	52 mm, -0.018 to -0.021 mm	2 (No Color)	2 mm, +0.006 to +0.003 mm
3	52 mm, -0.021 to -0.024 mm	3 (Green)	2 mm, +0.009 to +0.006 mm
4	52 mm, -0.024 to -0.027 mm	4 (Blue)	2 mm, +0.012 to +0.009 mm

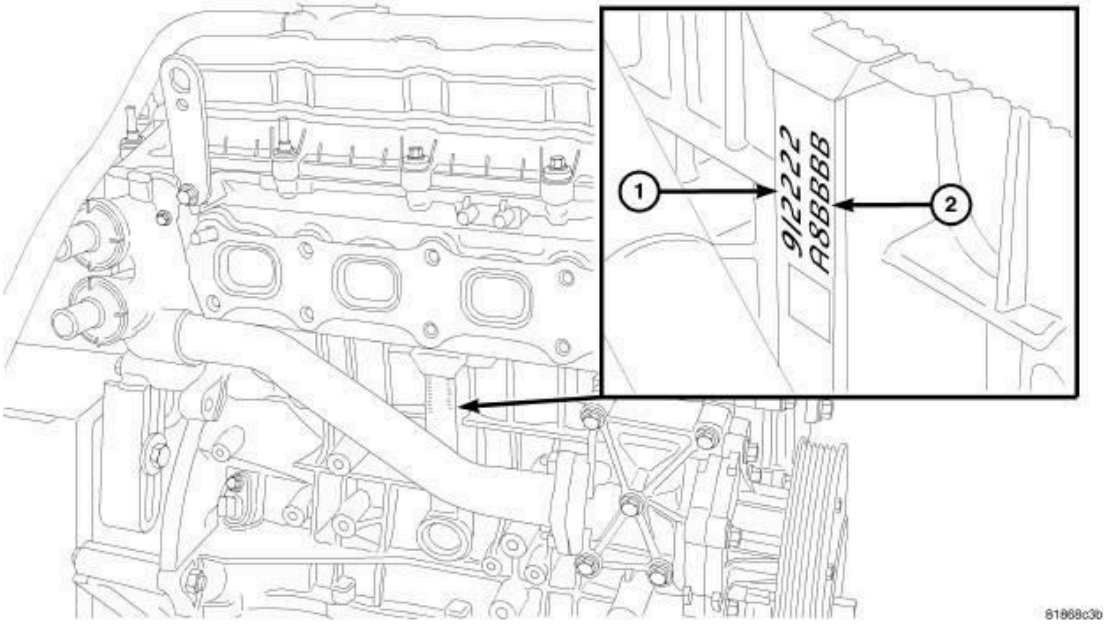

Fig. 169: Upper Main Bearing Shell Identification
Courtesy of CHRYSLER GROUP, LLC

The upper main bearing shell identification (1) is located in the middle of cylinder block on the right side of the engine. There are three different size bearings available. The bearing class is read downward from top and corresponds to the front journal to the rear journal on the bottom.

UPPER MAIN BEARING SELECTION