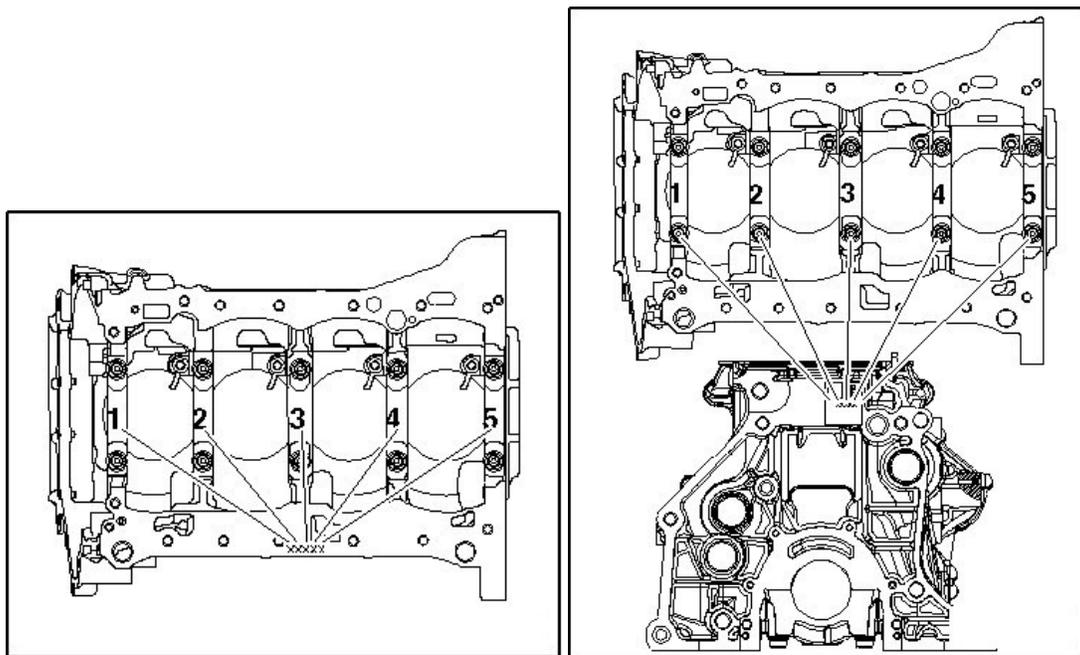


Main Bearing Identification on 2008-2016 Audi/Volkswagen 2.0L CCTA Engines

The AERA Technical Committee offers the following information on main bearing identification for 2008-2016 Audi/Volkswagen 2.0L CCTA engines. This information should be referenced anytime crankshaft service is being considered. Although Volkswagen does not offer the common .010" (.25 MM), .020" (.50 MM) undersize crankshaft bearings that the aftermarket does, they do offer STD replacement bearings.

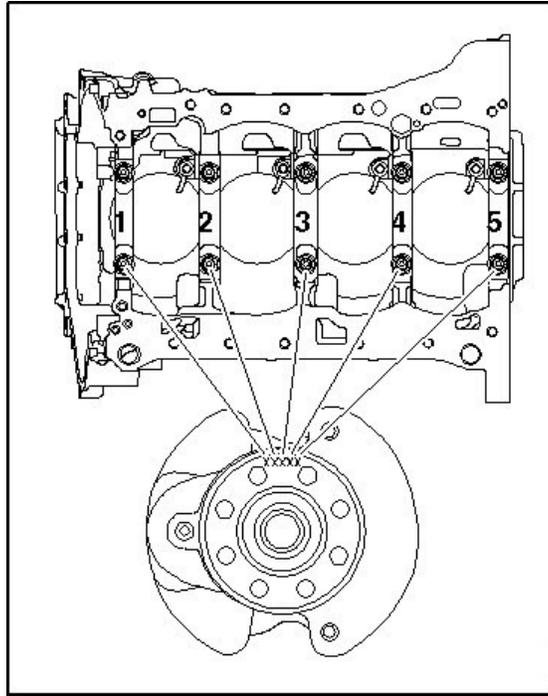
At the time of original assembly of these engines the manufacturer used a select bearing fit to obtain the desired oil clearance. To accomplish that they may have used different grade main bearings for the top and bottom locations on a single journal. Those grade sizes were determined by journal diameters and housing bore sizes. To indicate the grade of bearings used, markings were made on the crankshaft rear face and the cylinder block.

The bearing shells are allocated to the cylinder block with the correct thickness by the factory. Colored dots serve to identify the bearing thicknesses as shown.



Above Diagrams Show Possible Upper Main Bearing Code Locations (BLOCK)

The code letters on the lower contact surface or on the top of the cylinder block identify which bearing shell and where it must be installed in the cylinder block (upper bearing shell).



Code Location for Lower Main Bearings (CAP)

The code letters on the crankshaft identify which bearing shells and where they must be installed in the bearing cap (lower bearing shell). The first letter is for bearing cap one, the second for bearing cap two, etc.

S	=	black
R	=	red
G	=	yellow
B	=	blue
W	=	white

Bearing Color Codes for VW

If the crankshaft and block reusable and still within standard dimensions a select bearing fit to obtain desired clearance of .0007-.0015" (.017-.037 MM) may be possible if the proper bearings are ordered.