



Replacement Cam Bearings on 2005-2015 GM LS V-8 Engines

The AERA Technical Committee offers the following information regarding replacement cam bearings for 2005-2015 GM LS V-8 engines. There are two different groups of bearings used which can be categorized as early engines up to mid-year 2009 and late engines which are late 2009 and later. Refer to the graphs below for specific model year information.

It has been reported that under certain conditions the camshaft and bearings may come into physical contact with each other without sufficient lubrication assistance available. To offer resistance to such a situation causing a seizure condition, an alternative coated bearing surface is now available. New service cam bearings for Gen IV V8 engines have recently been released.

It is therefore advised when replacing cam bearings for an LS engine to replace all five cam bearings with the newly released service parts. The new cam bearings have a polymer coating and will appear different. The bearing surface looks black due to the coating.



Figure 1. New Polymer Coated Bearing

Note: If the black coating wears off, it does not mean that the bearing is bad. There is still a lead lining material underneath. If the lining is damaged or worn beyond specifications, then replacement would be required using the following guidelines.



The maximum cam journal to bearing oil clearance is .005" (.127 mm) with the service bearings installed on engines **with** AFM or CMP.

The maximum cam journal to bearing oil clearance is .006" (.152 mm) with the service bearings installed on engines **without** AFM or CMP.

First Design Camshaft with Aluminum Blocks and Iron Blocks up to early 2009

Part Number	Description
19260874	Replaces P/N 19167383 – Position #1 and #5 2005-2013 Gen IV Engines with Aluminum Block 2007-2009 Gen IV Engines with Iron Block and First design Camshaft
19260875	Replaces P/N 19167382 – Position #2 and #4 2005-2013 Gen IV Engines with Aluminum Block 2007-2009 Gen IV Engines with Iron Block and First Design Camshaft
19260876	Replaces P/N 19167218 Position #3 2005-2009 Gen IV Engines with Aluminum Block 2007-2009 Gen IV Engines with Iron Block and First Design Camshaft

Second Design Camshaft with Iron Block Only Late 2009 to Present

Part Number	Description
19260877	Replaces P/N 19167383 Position #1 and #5 2009 1/2-2013 Gen IV Engines with Iron Block and Second Design Camshaft
19260878	Replaces P/N 19167382 Position #2 and #4 2009 1/2-2013 Gen IV Engines with Iron Block and Second Design Camshaft
19260879	Replaces P/N 19167218 Position #3 2009 1/2-2013 Gen IV Engines with Iron Block and Second Design Camshaft