

TT00003

Revised Valve Guide & Seal On 2006-2010 GM 6.6L Diesel VIN 2, 6 & D Engines

S. B. International, Inc., offers the following information on a revised valve guide and valve seal that began in 2010 with production LGH and LML engines. These revised components may be used as service parts any time these heads are serviced.

Models Affected:

2006-2010 Chevrolet Express Vans, Kodiak C4500/C5500 Series, Silverado 2006-2010 GMC Savanna Vans, Sierra, TopKick C4500/C5500 Series equipped with Duramax(TM) Diesel Engine (RPOs LLY, LBZ or LMM).

A technician may notice a change in the valve guides and valve stem oil seals on replacement cylinder heads or engines for 2006-2010 model year vehicles. This change may also be noticed on 2006-2010 vehicles that have received a replacement cylinder head or engine during a previous repair.

Beginning in 2010, production LGH and LML engines were made with a new design valve guide and pressed fit valve stem oil seal. Replacement cylinder heads and remanufactured engines for 2006-2010 vehicles will also be made with the new design valve guide and pressed fit valve stem oil seal. The new design requires special tool EN-49761 to install the valve stem oil seal to the correct height. Identify the valve guide design before servicing the valve stem oil seals on a 2006-2010 model year vehicle.

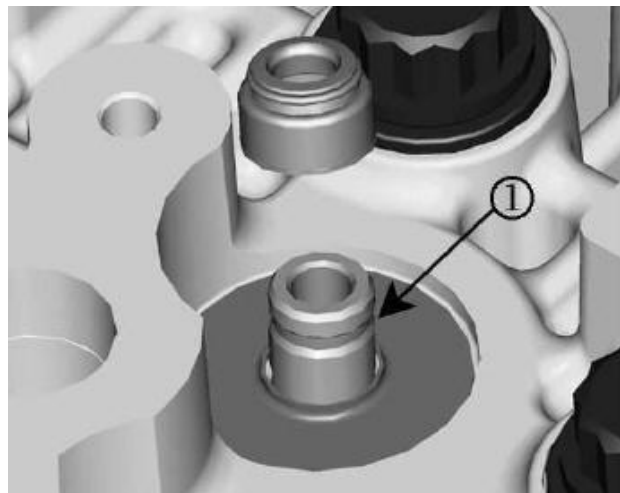


Figure 1.

Figure 1. The first design valve guide can be identified by the presence of a valve stem oil seal locating groove (1). This design used GM P/N 97212994.

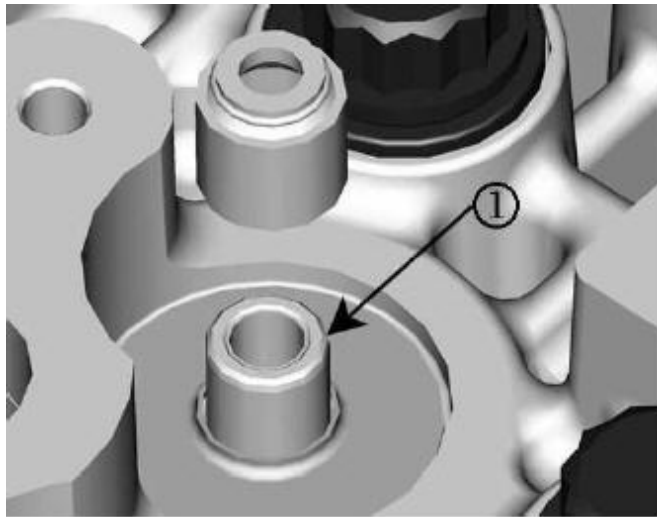


Figure 2.

Figure 2. The second design valve guide does not have this groove, as the valve stem oil seal is a pressed fit to the guide (1). This design used GM P/N 12624396. When servicing an engine with the second design valve guides, be sure to use EN-49761 to install the valve stem oil seal to the correct height. The EN-49761 is tapped down until it bottoms on the lower valve spring seat.

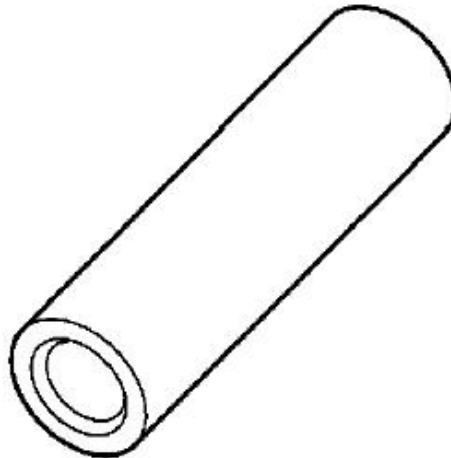


Figure 3.

Figure 3. GM special tool EN-49761.

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