MDS Oil Gallery Plugs for 2005-2018 Dodge/Chrysler 5.7, 6.1 & 6.4L Engines

The AERA Technical Committee offers the following information regarding the multi-displacement system (MDS) oil gallery plugs used on Dodge/Chrysler/Jeep 5.7, 6.1 & 6.4L engines. The MDS deactivates four cylinders under light loads by directing oil pressure to prevent valve opening and closing.

All cylinder blocks for these applications have the drilling and passages for this feature (See Figure 1.), however, that system is not used on all vehicle applications. A block for non-use requires installation of 4 block-off plugs, Part # 53032221AA.
Cylinder blocks that are being built for MDS applications must have the required solenoid Part #53032152AD installed during installation. It is also advisable to make sure all service personnel are aware of valve train differences that exist between MDS and non-MDS applications.