

TO: Service Locations

FROM: Service Operations

SUBJECT: **DD13 Cylinder Head and Cylinder Head Gasket Change**

### ISSUE

Detroit<sup>™</sup> made a cylinder head casting change for DD13 engines to improve cooling in April of 2015 with engine serial number 471927S0336887. The 471932C effective point is 471932C0200669. The oil drain passages on the exhaust side of the cylinder head were modified. This change also required cup plugs to be installed in the deck of the cylinder head. A new cylinder head gasket was released with the cylinder head change. See illustrations below.



**Figure1. New DD13 Cylinder Head (Left) and New DD13 Cylinder Head Gasket (Right)**

### REQUIRED ACTION

When making repairs to a DD13 engine with the new cylinder head design, the correct, new cylinder head gasket must be used. The new cylinder head gasket part number is A4710161220. This new cylinder head and head gasket can be used on any DD13 engine with oil drains in the cylinder block that have the same shape as shown above. The new cylinder head and head gasket cannot be used on earlier cylinder blocks with square oil drains. PartsPro was updated to reflect these changes. Detroit always recommends using PartsPro and the latest service documentation when making repairs to Detroit engines.

A summary of the DD13 models follows:



| <b>HDEP DD13 MODEL BREAKDOWN</b> |                     |                     |                              |                        |
|----------------------------------|---------------------|---------------------|------------------------------|------------------------|
| <b>DESCRIPTION</b>               | <b>ENGINE MODEL</b> | <b>DISPLACEMENT</b> | <b>APPLICATION</b>           | <b>YEAR</b>            |
| EPA10 GHG14 DD13                 | 471927S             | 12.8 L (DD13)       | FUEL ECON PACKAGE 0 (FE0)    | 2013<br>(EPA10, GHG14) |
| EPA10 GHG14 DD13                 | 471932C             | 12.8 L (DD13)       | COACH (EVOBUS)               |                        |
| EPA10 GHG14 DD13                 | 471933S             | 12.8 L (DD13)       | PIERCE FIRETRUCK             |                        |
| EPA10 GHG14 DD13                 | 471934S             | 12.8 L (DD13)       | COACH (MCI & VAN HOOL)       |                        |
| EPA10 GHG14 DD13                 | 471935S             | 12.8 L (DD13)       | MTU                          |                        |
| EPA10 GHG17 DD13                 | 471928S             | 12.8 L (DD13)       | TRUCK (FE1)                  | 2016<br>(GHG17)        |
| EPA10 GHG17 DD13                 | 471938C             | 12.8 L (DD13)       | COACH (EVOBUS)               |                        |
| EPA10 GHG17 DD13                 | 471940S             | 12.8 L (DD13)       | PIERCE FIRETRUCK             |                        |
| EPA10 GHG17 DD13                 | 471941S             | 12.8 L (DD13)       | MCI, VAN HOOL, OSHKOSH, FCCC |                        |
| EPA10 GHG17 DD13                 | 471942S             | 12.8 L (DD13)       | MTU                          |                        |

**CONTACT INFORMATION**

Please contact the Detroit™ Customer Support Center at 800-445-1980 or email [csc@daimler.com](mailto:csc@daimler.com) if you have any questions.