



No.: 12 TS-21
December 11, 2012

TO: Service Locations

FROM: Service Operations

SUBJECT: **DD Platform Fuel Injector Cup Seals**

ISSUE

Injector cup seals installed in DD engines can fail and cause coolant leaks or cross-contamination with fuel. The seal material was improved with new seal P/N: A0249976445 which replaced former seal P/N: A4729970745 with DD15 engine serial number 472903S0107259 built on December 1, 2011, and DD13 engine serial number 471903S0107488 built on December 5, 2011.

REQUIRED ACTION

Failed fuel injector cup seals are the primary cause of fuel in coolant/coolant in fuel complaints. Reference the *EPA07/10/GHG14 DDEC VI/10 Electronics and Troubleshooting Manual* (DDC-SVC-MAN-0084) and the chapter titled "Diagnostic Tests" for the section "Fuel in Coolant/Coolant in Fuel". If an injector cup seal has failed, replace **all six** injector cup seals. Reference the *EPA07/10/GHG14 Fuel Manual* (DDC-SVC-MAN-0082) and the chapter titled "Fuel Injector Cup" for repair procedures.

Additional seals in the cooling system must also be replaced due to fuel-in-coolant contamination. See Table 1 for a list of parts to be replaced.

The cooling system should also be flushed and filled with new coolant after the seals are replaced. Reference the "Coolant Selections" manual (DDC-SVC-MAN-0002) and the section titled "Detroit Diesel Genuine Coolant Engine Products" for the current list of cooling system cleaners.

Part Number	Description	Qty.	Comments
A0249976445	Fuel Injector Cup Seal	6	
DD15/16: A4722030180 DD13: A4712031180	Coolant Outlet Nipple Racetrack Seal	1	
A4722030580	Seal between Coolant Return Casting (heater returns) and Oil/Coolant Module	1	
A4722030080	Thermostat Seal	1	
A4722010080	Water Pump Perimeter Seal	1	
A4722030880	Seal between Coolant Collector and Cylinder Head	1	Only for DD15/16 engine S/N (last five digits) 32840 built before March 22, 2010. Do not replace for DD13 engines.
A4722030980	Seal between Coolant Collector and Cylinder Head	1	Only for DD15/16 engine S/N (last five digits) 32840 built before March 22, 2010. Do not replace for DD13 engines.
DD15/16: A4722002252 DD13: A4712002352	Coolant Line – Air Compressor To Fuel Filter Module	1	Only for EPA07 engines. Do not replace on EPA10 engines.
DD15/16: A4722002352 DD13: A4712002452	Coolant Line – Fuel Filter Module To Oil/Coolant Module	1	Only for EPA07 engines. Do not replace on EPA10 engines.
DD15/16: A4722002152 DD13: A4712002252	Coolant Line – Air Compressor To Cylinder Block	1	Only for EPA07 engines. Do not replace on EPA10 engines.
A4720780180	Gasket – Fuel Injector Jumper Lines	6	
A4600700487	Fuel Injector O-Ring Seal Kit	6	
Standard: A4722030255 Need Release: A4712030155	Coolant Filter	1	Use applicable coolant filter. Note that some engines may not have a coolant filter if previously removed by the customer.
Coolant	NA	NA	Use applicable coolant as listed in the “Coolant Selections” manual (DDC-SVC-MAN-0002)

Table 1 – Parts List For Leaking Fuel Injector Cup Seals

CLAIM PROCESS

Normal in-warranty procedures apply.

For engines built with the **former** seal (before DD15 engine serial number 472903S0107259 built on December 1, 2011, and DD13 engine serial number 471903S0107488 built on December 5, 2011), use former seal P/N: A4729970745 as the Primary Failed Part Number (PFP).

For engines built with the **current** seal (after DD15 engine serial number 472903S0107259 built on December 1, 2011, and DD13 engine serial number 471903S0107488 built on December 5, 2011), use current seal P/N: A0249976445 as the Primary Failed Part Number (PFP).

CONTACT INFORMATION

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