



No.: 13 TL-1

January 17, 2013

TO: Service Locations

FROM: Service Operations

SUBJECT: **W470589099100 Plug, Fuel Pressure Test (Doser Regulator) & W470589089100 Filter Cap w/ Test Port**

NOTE: This document supersedes 11 TL-9.

GENERAL INFORMATION

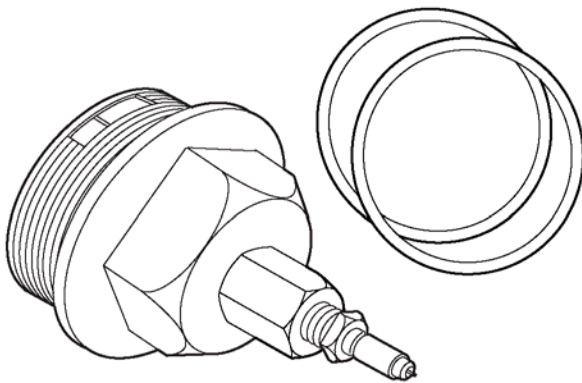
The Detroit Diesel special tool group has released two new essential tools for the fuel system. W470589099100, Fuel pressure test (doser regulator) Plug and W470589089100, Filter cap w/ test port. For service locations that are EPA07 and EPA2010 DD certified in SSI, no action is required. Tools will be automatically shipped and invoiced to your facility during the month of August. Locations that are **NOT** EPA07 and EPA2010 DD certified in SSI, will need to order the tools through the Paragon system.

The Doser Plug, W470589099100, is designed to be used with the Fuel System Integrity Check (FSIC) panel in DDDL version 7.07 or higher under Service Routines. The Doser Plug allows you to check High Pressure Pump in-pressure using the fuel compensation pressure sensor located in the doser block and the FSIC panel in DDDL. W470589099100 should only be used when instructed by the diagnostic for your fault or symptom.



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In 2010, the Low Pressure Pump inlet port was removed on all engines to accommodate a new amplifier return line routing for the two-cylinder air compressors used in some applications. The filter cap with test fitting W470589089100 will allow you to check Low Pressure Pump in-pressure (suction side) using your existing gauge set J-48706 when instructed by diagnostics.



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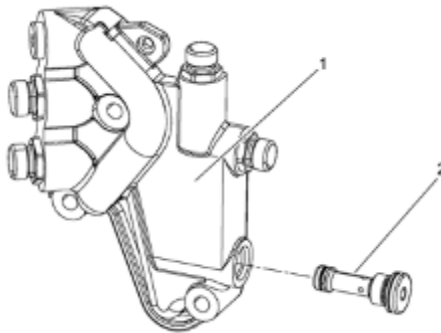
TOOL USAGE INSTRUCTIONS**W470589099100: Fuel Pressure Test (Doser Regulator) Plug – Three-Filter Fuel System**

NOTE: This procedure is used for a three-filter fuel system. For a two-filter fuel system, refer to the W470589099100: Fuel pressure test (Doser Regulator) Plug – Two-Filter Fuel System procedure in this letter.

! WARNING:**PERSONAL INJURY**

To avoid injury, never remove any engine component while the engine is running.

1. Remove doser regulator (2) from the high pressure flange (1).



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Notice: When diagnostic testing is complete, the Doser Plug, W470589099100, must be removed from the engine and the doser regulator reinstalled.

2. Install W470589099100 into high pressure fuel flange.
Torque to 30 N·m (22 lb·ft).



3. Follow published diagnostics in PSL.

W470589099100: Fuel Pressure Test (Doser Regulator) Plug – Two-Filter Fuel System

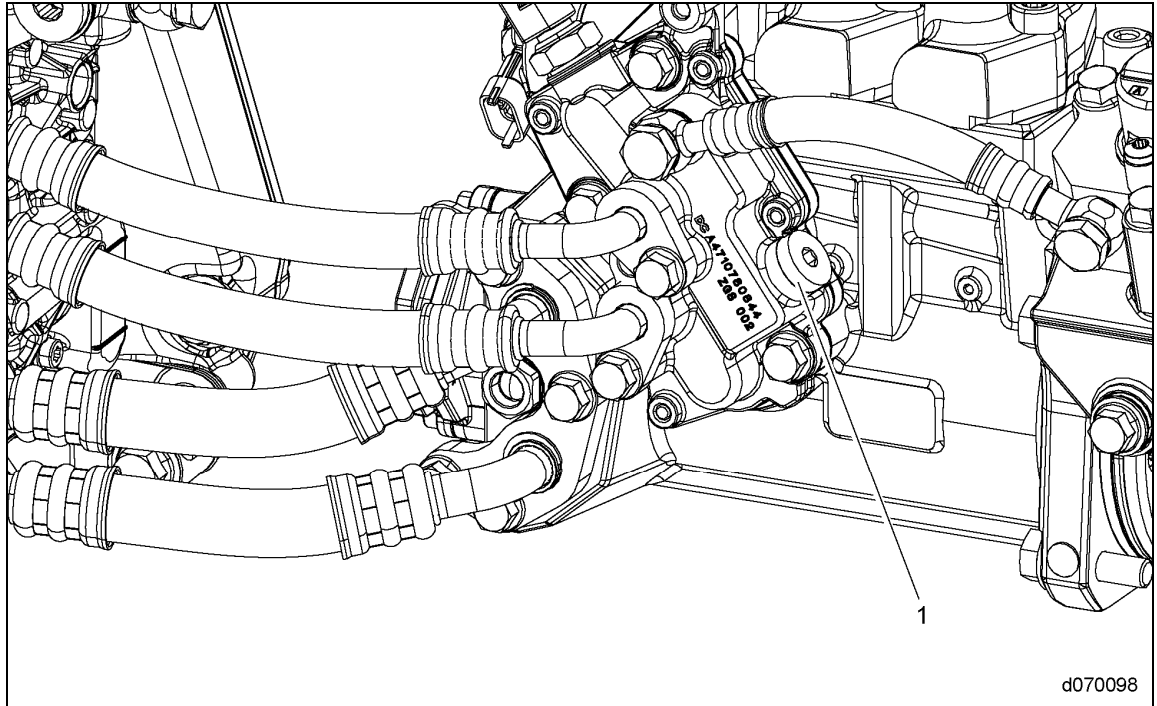
NOTE: This procedure is used for a two-filter fuel system. For a three-filter fuel system, refer to the W470589099100: Fuel pressure test (Doser Regulator) Plug – Three-Filter Fuel System procedure in this letter.

! WARNING:

PERSONAL INJURY

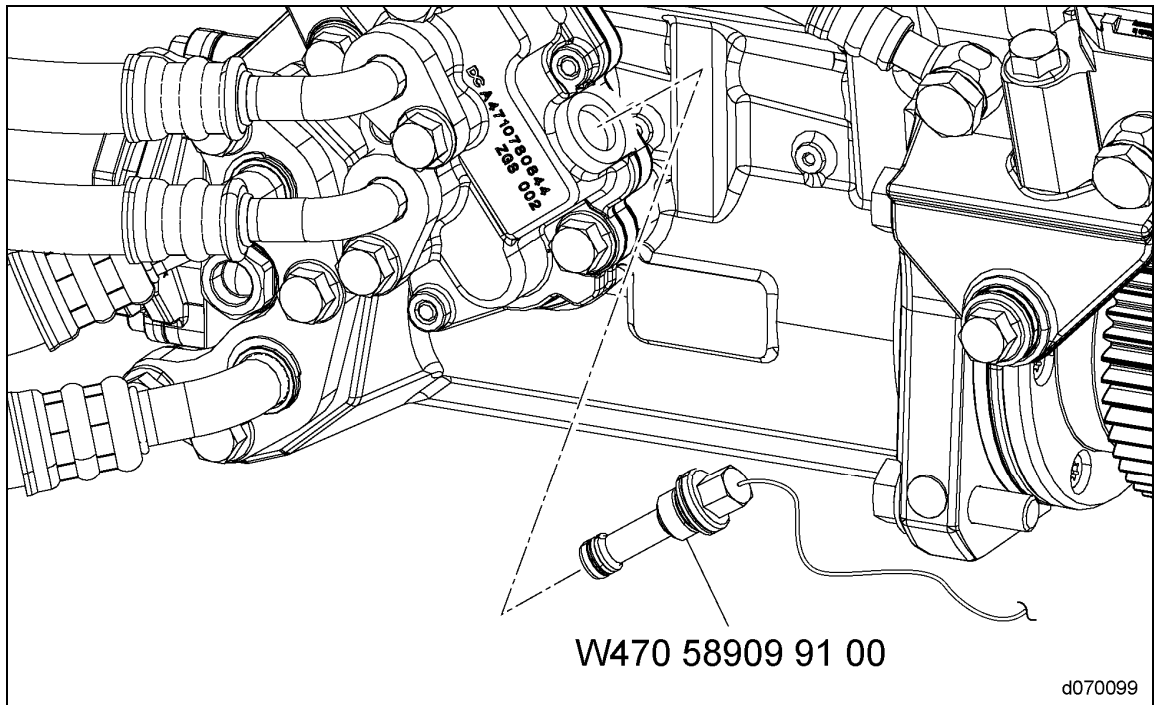
To avoid injury, never remove any engine component while the engine is running.

1. Remove doser regulator (1) from the high pressure flange.



Notice: When diagnostic testing is complete, the Doser Plug, W470589099100, must be removed from the engine and the doser regulator reinstalled.

2. Install W470589099100 into high pressure fuel flange.
Torque to 30 N·m (22 lb·ft).



3. Follow published diagnostics in PSL.

W470589089100: Filter Cap w/ Test Port

NOTE: W470589089100 is used only on a three-filter fuel system. For a two-filter fuel system, use W470589149100 Filter Cap with Test Port. For additional information, refer to Tool Letter 12 TL-8.

**WARNING:****PERSONAL INJURY**

To avoid injury, never remove any engine component while the engine is running.

1. Using a 36 mm socket, unscrew the prefilter cap.
2. Pull the cap and prefilter straight up and out of the fuel filter housing.
3. Remove the prefilter from the prefilter cap.
4. Install prefilter on W470589089100, Filter Cap with test port.



5. Apply a thin coat of petroleum-based lithium grease to the prefilter cap seal ring.
6. Apply a thin coat of petroleum-based lithium grease to the inside and outside of the prefilter bottom seal.
7. Install the prefilter into the fuel filter module.
8. Turn the cap counterclockwise until a "click" sound is made, then turn clockwise and hand tighten.
9. Torque prefilter cap to 15-20 N·m (11-15 lb·ft).
10. Prime the fuel system using the ESOC 350.
11. Connect gauge set J-48706.



12. Follow published diagnostics in PSL.

ADDITIONAL INFORMATION

Ordering Information: Tools will be automatically shipped and invoiced to your facility during the month of August. Locations that are **NOT** EPA07 and EPA10 DD certified in SSI, will need to order the tools through the Paragon system. Tools can be ordered through Paragon using a DDE supplier prefix.

- DDE W470589099100 Plug, Fuel Pressure Test (Doser Regulator)
- DDE W470589089100 Filter Cap w/ Test Port

Refer to the appropriate section in Power Service Literature for individual tool usage and procedures. If there are any questions or concerns about the use of these tools, call the Customer Support Center. Do not attempt to modify these tools in any way; doing so may result in damage to the tool or damage to the engine.

CONTACT INFORMATION

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