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Service Information Bulletin

SUBJECT	DATE
Pressure Limiting Valve Flow Test - Two and Three-Filter Fuel System	February 2016

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0084	DD Platform - EPA07/10/ GHG14,	Pressure Limiting Valve Flow Test - Two-Filter Fuel System	Update PLV flow spec
DDC-SVC-MAN-S084	Plataforma DD EPA07/10/ GHG14		
DDC-SVC-MAN-S184	Plataforma DD Euro IV		
DDC-SVC-MAN-0084	DD Platform - EPA07/10/ GHG14	Pressure Limiting Valve Flow Test - Three-Filter Fuel System	
DDC-SVC-MAN-0191	DD Platform - GHG17	Pressure Limiting Valve Flow Test - Two-Filter Fuel System	



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2 Pressure Limiting Valve Flow Test – Two-Filter Fuel System

Table 1.

Service Tools Used in the Procedure	
Tool Number	Description
J-48708	Fuel Flow Tool, Amp/Needle Valve, HDE
W470589209100	Fuel Flow/Aeration Test Adaptors
DDDL 7.08 sp2 or later	



WARNING: PERSONAL INJURY

To avoid injury from hot surfaces, wear protective gloves, or allow engine to cool before removing any component.

Test as follows:

1. Install the Pressure Limiting Valve (PLV) flow test adaptor included in the W470589209100 Fuel Flow/Aeration Test Adaptors kit. Refer to the installation instructions in tool letter **12 TL-7** (<http://ddcsn-ddc.freightliner.com/cps/rde/xbcr/ddcsn/12TL7.pdf>).
2. Connect the DDDL to the vehicle and turn the ignition on. From the “Service Routines,” open the “Fuel System Integrity Check” tab.
3. Start the Fuel System Integrity Check routine and follow the instructions in DDDL.
4. Monitor the PLV return flow into a suitable container. Container should be able to hold at least 200 mL (6.75 oz.) of fuel. Was fuel flow out of the PLV during the Fuel System Integrity Check routine greater than 160 mL (5.4 oz.)?
 - a. Yes; Replace the Pressure Limiting Valve (PLV) and reset the PLV counter to 0. Refer to section "Removal of the Pressure Limiting Valve - Two-Filter System".
 - b. No; the PLV is not out of spec. Return to initial diagnostics that referred you to this procedure “Pressure Limiting Valve Flow Test – Two-Filter Fuel System.”

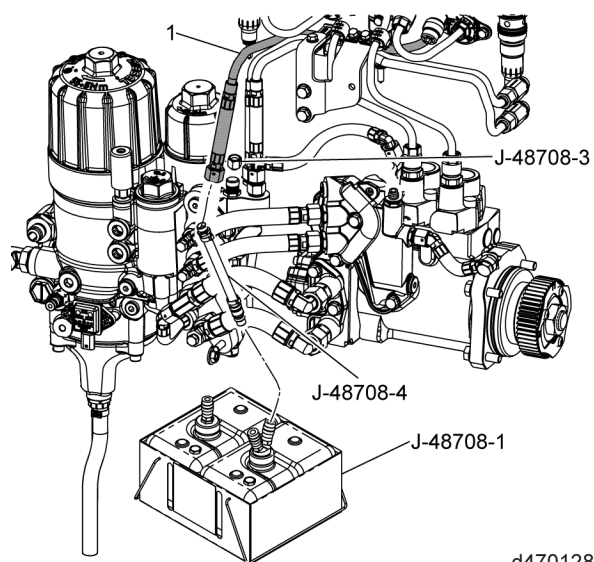
3 Pressure Limiting Valve Flow Test - Three-Filter Fuel System

Table 2.

Service Tools Used in the Procedure	
Tool Number	Description
J-48708	Fuel Flow Tool, Amp/Needle Valve, HDE
W470589039100	Fuel System Tool Update Kit w/o an MCM cooler
DDDL 7.06 sp2 or later	

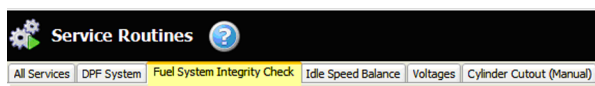
Test as follows:

1. Remove the Pressure Limiting Valve (PLV) line (1) from the fitting at the top of the fuel filter module.



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2. Install clear hose and fitting from J-48708-4 and J-48708 kit to the PLV return line.
3. Cap PLV return line fitting on the fuel filter module using J-48708-3.
4. Place the opposite end of the clear hose into a graduated container. Container should be able to hold 200 mL (6.75 oz.) of fuel.
5. Start the engine and perform the Automatic FSIC routing in the Service Routines panel and note the return flow to the graduated container. Was fuel flow out of the PLV during the Fuel System Integrity Check greater than 160 mL (5.4 oz.)?



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- a. Yes; replace the Pressure Limiting Valve (PLV) and reset the PLV counter to 0. Refer to section "Removal of the Pressure Limiting Valve - Three-Filter System".
- b. No; the PLV is not out of spec. Please return to the diagnostic that referred you to this procedure "Pressure Limiting Valve Flow Test - Three- Filter System."

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Table 3.

Service Tools Used in the Procedure	
Tool Number	Description
J-48708	Fuel Flow Tool, Amp/Needle Valve, HDE
W470589209100	Fuel Flow/Aeration Test Adaptors
DDDL 7.08 sp2 or later	

Test as follows:

1. Install the Pressure Limiting Valve (PLV) flow test adaptor included in the W470589209100 Fuel Flow/Aeration Test Adaptors kit. Refer to the installation instructions in tool letter **12 TL-7** (<http://ddcsn-ddc.freightliner.com/cps/rde/xbcr/ddcsn/12TL7.pdf>).
2. Connect the DDDL to the vehicle and turn the ignition on. From the “Service Routines,” open the “Fuel System Integrity Check” tab.
3. Start the Fuel System Integrity Check routine and follow the instructions in DDDL.
4. Monitor the PLV return flow into a suitable container. Container should be able to hold at least 200 mL (6.75 oz.) of fuel. Was fuel flow out of the PLV during the Fuel System Integrity Check routine greater than 160 mL (5.4 oz.)?
 - a. Yes; Replace the Pressure Limiting Valve (PLV) and reset the PLV counter to 0. Refer to section "Removal of the Pressure Limiting Valve - Two-Filter System".
 - b. No; the PLV is not out of spec. Return to initial diagnostics that referred you to this procedure "Pressure Limiting Valve Flow Test - Two-Filter Fuel System."