



DETROITTM
DEMAND PERFORMANCESM

18SP721 – DD13 KM59 GEN1 Truck Two-Filter System Amplifier, Needle and PLV Return Fuel line Clearance Package Service Kit (P/N: A4710708435)

KIT DESCRIPTION

This service kit (P/N: A4710708435) contains all the necessary parts to replace the Amplifier, Needle and PLV Return Fuel lines on the DD13 with the KM59 GEN1 Two-Filter System.

KIT CONTENTS

Part No.	Qty.	Description
A4710706635	1	PLV Return Line (Truck)
A4710704935	1	Amplifier Return Line (Truck)
A4710706735	1	Needle Return Line (Truck)
18SP721	1	Installation Instructions

REPAIR PROCEDURE

Removal of the Needle, Amplifier, and Pressure Limiting Valve (PLV) Return Lines – Two-Filter System

Remove as follows:

Note:

KM59 GEN1 fuel filter module return lines are secured to the module with banjo bolts.

1. Remove the return line p-clip bolt securing the return lines to the mounting bracket.
2. Remove the return line p-clip from the engine.
3. Using J-48836 to hold the cylinder head fitting, remove the needle return line from the cylinder head fitting using J-48770.
4. Remove the PLV return line from the fuel rail and discard sealing washers.
5. Using J-48836 to hold the cylinder head fitting, remove the amplifier return line from the cylinder head fitting using J-48770.
6. Remove the three banjo bolts securing the needle, amplifier and PLV from the fuel filter module.
7. Remove the needle, amplifier and PLV return lines from the engine.

8. Remove both cylinder head fittings from the cylinder head and discard the sealing washers.

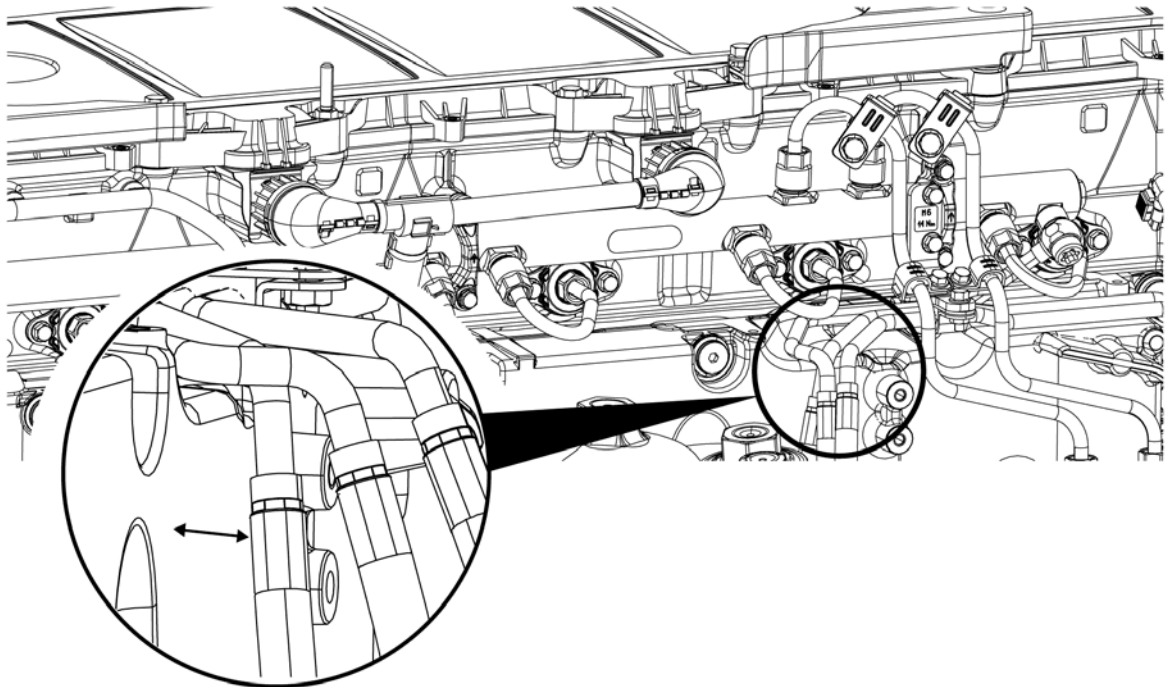
Installation of the Needle, Amplifier, and Pressure Limiting Valve (PLV) Return Lines – Two-Filter System

Install as follows:

Note:

KM59 GEN1 fuel filter module return lines are secured to the module with banjo bolts.

1. Using new sealing washers, install both cylinder head fittings at the rear of the cylinder head. Torque to 55 to 60 N·m (40 to 44 lb·ft).
2. Install the needle and amplifier return lines on to the cylinder head fittings at the rear of the cylinder head. Hand-tighten the return lines. Do not torque at this time.
3. Install the PLV return line on to the fuel rail with new sealing washers. Hand-tighten the line. Do not torque at this time.
4. Install the return lines on to the fuel filter module with new sealing washers. Hand-tighten the lines. Do not torque at this time.
5. Install the return lines p-clip on to the return lines.
6. Install the return lines p-clip on to the mounting bracket. Torque to 15 N·m (11 lb·ft).
7. Using J-48770, torque the needle and amplifier return lines on to the cylinder head fittings at the rear of the cylinder head to 25 N·m (18 lb·ft).
8. Torque the PLV line to the fuel rail to 30 to 33 N·m (22 to 24 lb·ft).



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NOTICE:

For KM59 GEN1 only, when tightening to the specified torque, ensure the amplifier return line to the fuel filter module does not come in to contact with the intake manifold.

9. Torque the return lines to the fuel module to 30 to 33 N·m (22 to 24 lb·ft).
10. Prime the fuel system, [Refer to section "Priming the Fuel System Using ESOC 350 Fuel Priming Pump - Two-Filter System"](#) .



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