



**DETROIT**<sup>TM</sup>  
**DEMAND PERFORMANCE**<sup>SM</sup>

## 18SP724 – EPA07 DD15/16 Three-Filter Fuel System Needle Return Line Service Kit (P/N: A4720708332)

### KIT DESCRIPTION

This service kit (P/N: A4720708332) contains all the necessary parts to replace the Needle Return Fuel line and the M16x1.5 cylinder head fitting on EPA07 DD15/16 engines with the Three-Filter Fuel System.

### KIT CONTENTS

Part No.	Qty.	Description
A4720704032	1	Needle Return Line
A4720783831	1	M16x1.5 Cylinder Head Fitting
18SP724	1	Installation Instructions

### REPAIR PROCEDURE

## Removal of the Needle Return Line – Three-Filter System

 **WARNING:**

### **PERSONAL INJURY**

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

Remove as follows:

### **NOTICE:**

Engine size/model year specific service kits, containing all necessary parts to replace the high pressure fuel rail feed lines have been released. Refer to TS letter 13 TS-21 for the high pressure fuel line kit numbers to repair these engines.

1. Remove and discard the high pressure fuel rail feed lines. [Refer to PSL section "Removal of the High Pressure Fuel Rail Feed Lines - Three-Filter System"](#).
2. Using J-48836 to hold the cylinder head fitting, remove the needle return line from the cylinder head fitting using J-48770.
3. Remove the needle return line from the high pressure flange.
4. Remove the needle return line from the needle return pressure control valve.

- Using J-48836, remove the needle return line cylinder head fitting from the cylinder head and discard the sealing washer.

## Installation of the Needle Return Line – Three-Filter System

Install as follows:

**NOTE:** EPA07 engines have an M18x1.5 and an M16x1.5 cylinder head fitting. EPA10 and newer engines use M18x1.5 only.

- Using a new sealing washer, install the supplied M16x1.5 cylinder head fitting at the rear of the cylinder head.
- Torque the cylinder head fitting to 45 to 50 N·m (33 to 37 lb·ft).
- Install the needle return line on to the cylinder head fitting, fuel filter module and high pressure flange.
- Torque the needle return to the cylinder head fitting to 23 to 25 N·m (17 to 19 lb·ft), to the fuel filter module to 28 to 30 N·m (21 to 22 lb·ft) and to the high pressure flange to 25 N·m (18 lb·ft).

 **WARNING:**

### PERSONAL INJURY

**All parts provided within this kit must be installed in the proper locations, and MUST be fastened to the specified torque. Failure to properly torque hardware/components will result in failure of a high pressure fuel feed line, resulting in possible fire and/or personal injury.**

### NOTICE:

Engine size/model year specific service kits, containing all necessary parts to replace the high pressure fuel rail feed lines have been released. Refer to TS letter 13 TS-21 for the high pressure fuel line kit numbers to repair these engines.

- Install the high pressure fuel rail feed lines. [Refer to PSL section "Installation of the High Pressure Fuel Rail Feed Lines - Three-Filter System"](#).



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**18SP724 1506** As technical advances continue, specifications will change. Printed in U.S.A.