VOLVO
Volvo Trucks North America
Greensboro, NC USA

Service Bulletin Trucks

This Service Bulletin replaces SB 254–32, “EGR Cool-Side Pipes, Replace, D13F” (5.2007), publication no. PV776–20180153.

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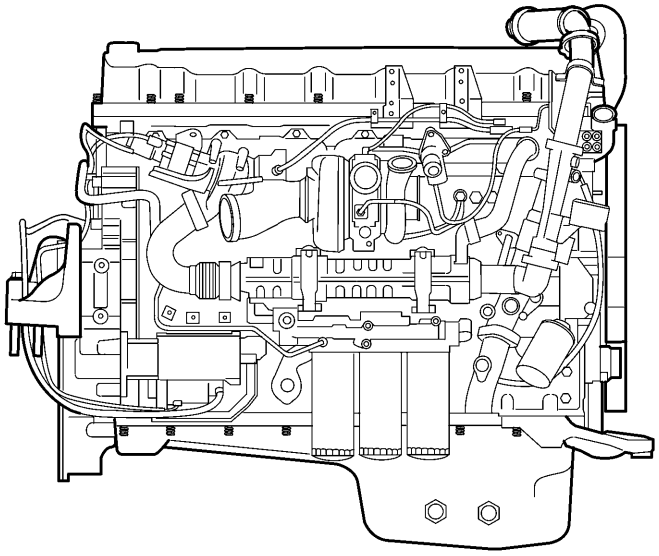
Tube Venturi
Replacement
D13F

EGR Venturi Tube, Replacement



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This information covers replacement of the EGR venturi tube on a Volvo D13F engine.

Contents

Note: Information is subject to change without notice.
Illustrations are used for reference only and can differ slightly from the actual vehicle being serviced. However, key components addressed in this information are represented as accurately as possible.

Service Procedures

2411-03-02-01
Tube Venturi, Replacement

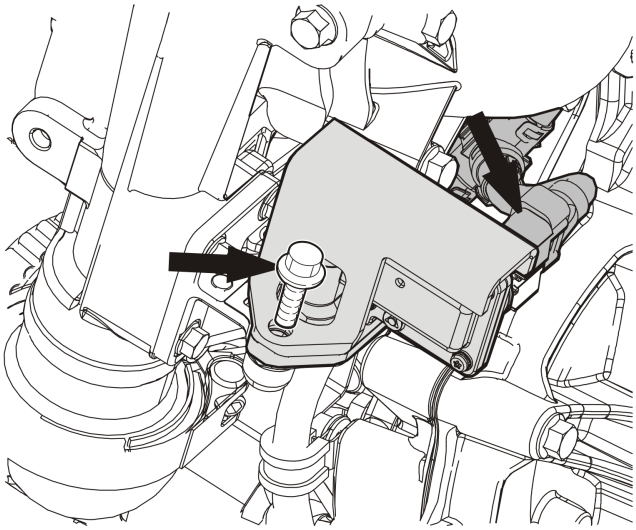
You must read and understand the precautions and guidelines in Service Information, group 20, "General Safety Practices, Engine" before performing this procedure. If you are not properly trained and certified in this procedure, ask your supervisor for training before you perform it.

Pressure Differential Sensor

Removal

1
Apply the parking brake and place the shift lever in neutral.

2
Disconnect the wiring harness lead from the connector terminal on the pressure differential sensor.



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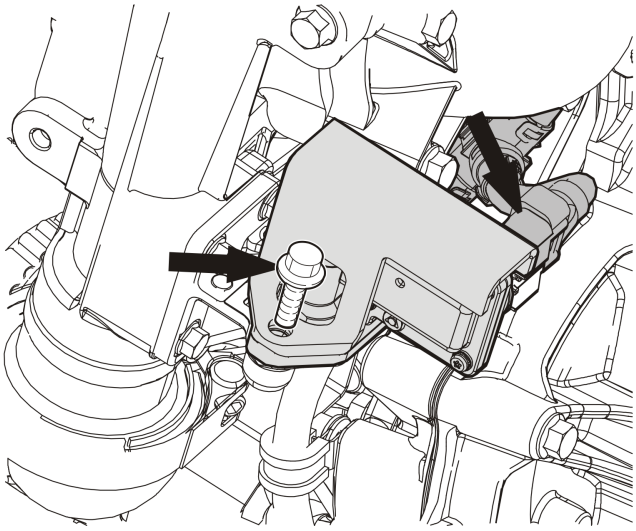
3
Loosen and remove the mounting bolts and remove the pressure differential sensor from the venturi tube.

4
Remove the sensor assembly from the mounting flange on the venturi tube.

Installation

1
Ensure new seals are in position on the pressure differential sensor mounting flange.

2
Place the pressure differential sensor in position on the venturi tube and install the mounting bolts.



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3
Tighten the mounting bolts to specification.

4
Connect the wiring harness lead to the sensor terminal.

5
Due to the Engine Electronic Control Unit (EECU) self learning capability, it is necessary to reset learned EECU parameters after servicing some engine related components. This allows the EECU to learn the new components behavior. After servicing is complete, perform the “Learned Data Reset” using the PC tool. This is located in the Function Group 1 menu.

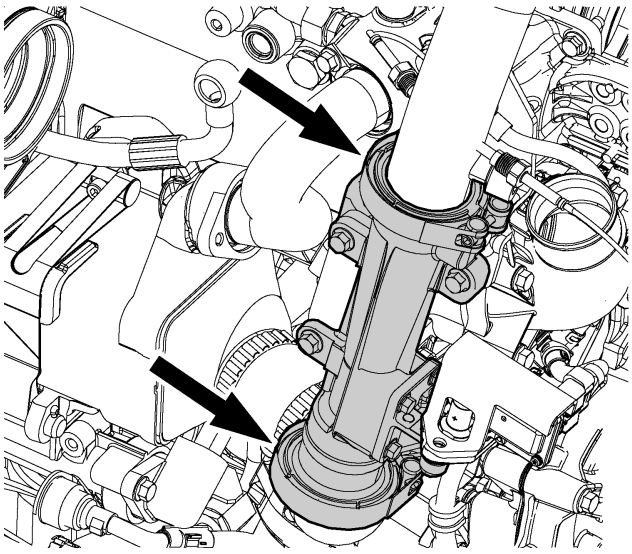
Venturi Tube

Removal

1
Apply the parking brake and place the shift lever in neutral.

2
Disconnect the wiring harness lead from the pressure differential sensor terminal.

Note: The pressure differential sensor can be removed from the venturi tube or left in place and removed as an assembly with the venturi tube.



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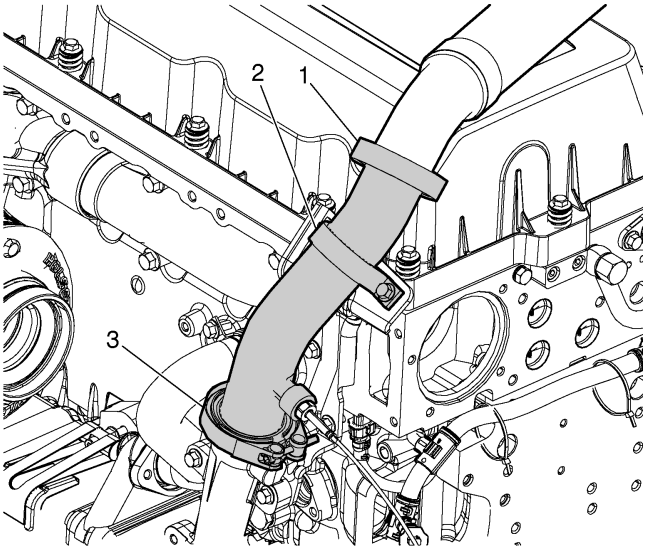
3
Loosen and remove the V-clamps at the top and bottom ends of the venturi tube.



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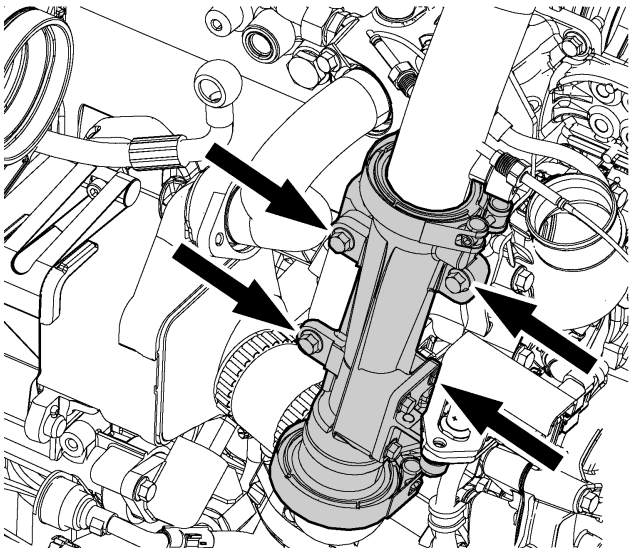
1 V-Clamp
2 Retainer Strap
3 V-Clamp

4
Remove the retainer strap fasteners that secure the venturi outlet pipe to the venturi tube mounting bracket.



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5
Remove all fasteners securing the venturi tube to the mounting bracket.

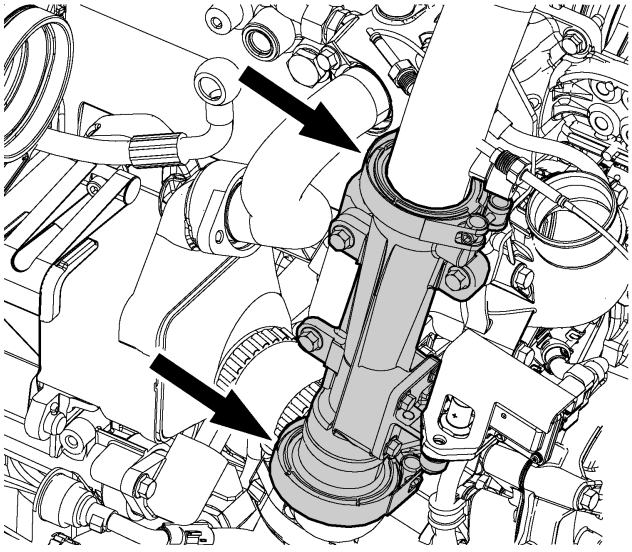
6
Remove the venturi tube from the engine.

Installation

1
Place a new O-ring on the 90-degree elbow.

2
Place a new O-ring on the venturi tube outlet flange.

3
Place the venturi tube in position on the mounting bracket.



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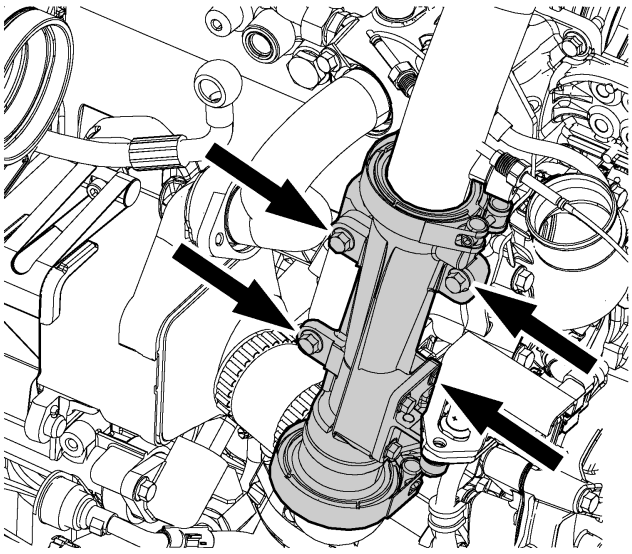
4
Check that the O-ring is properly positioned on the venturi tube and install the V-clamps connecting the venturi tube to the crossover piping and 90-degree elbow. Tighten the clamps to specification.



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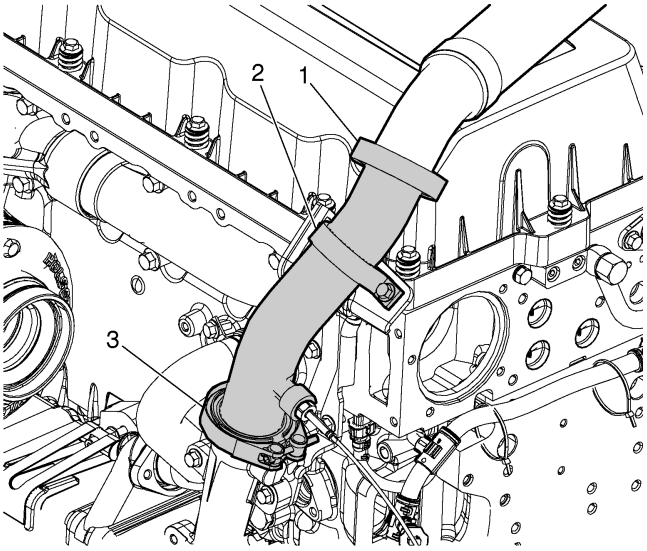
5
Install all fasteners securing the venturi tube to the mounting bracket.



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1 V-Clamp
2 Retainer Strap
3 V-Clamp

6
Install the retainer strap and fasteners to secure the venturi outlet pipe to the venturi tube mounting bracket.

7
Connect the wiring harness lead to the pressure differential sensor terminal.

8
Due to the Engine Electronic Control Unit (EECU) self learning capability, it is necessary to reset learned EECU parameters after servicing some engine related components. This allows the EECU to learn the new components behavior. After servicing is complete, perform the “Learned Data Reset” using the PC tool. This is located in the Function Group 1 menu.