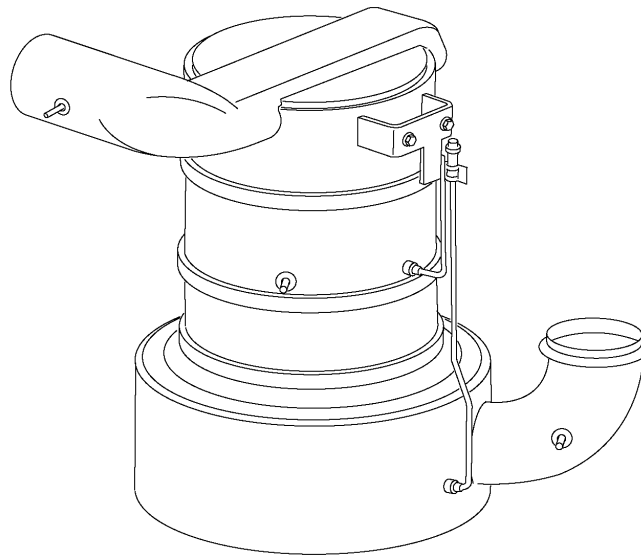


Diesel Particulate Filter (Compact)
Replacement
D16F

Diesel Particulate Filter (Compact), Replacement



W2005916

This information covers the proper replacement procedure for the Compact diesel particulate filter assembly used in a Volvo chassis with a D16F engine.

Contents

- "Particulate Filter, Complete, Replacement (One)" page 2

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

Service Procedures

2545-03-02-02

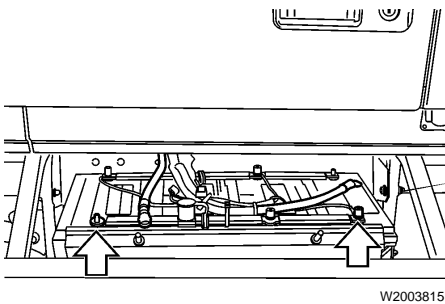
Particulate Filter, Complete, Replacement (One)

This bulletin provides replacement procedures for the Compact DPF.

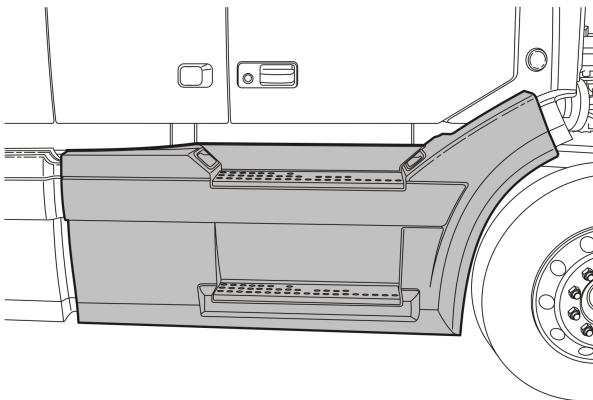
You must read and understand the precautions and guidelines in Service Information, group 20, "General Safety Practices, Engine" before performing this procedure. If you are not properly trained and certified in this procedure, ask your supervisor for training before you perform it.

Removal

- 1**
Apply the parking brake and place the shift lever in neutral.
- 2**
Remove all cables from ground (negative) battery terminals to prevent personal injury from electrical shock.

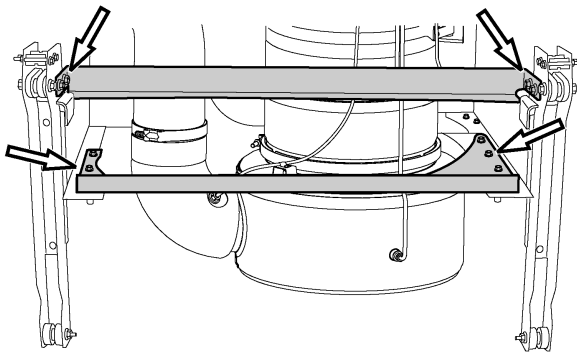


- 3**
Remove the right side chassis fairing, if equipped.



4

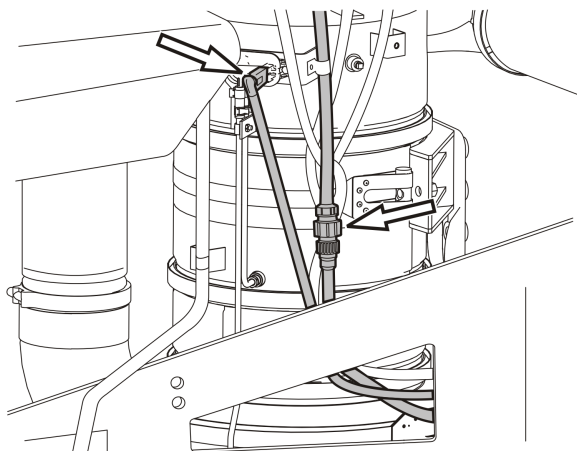
Remove the bolts and nuts securing braces and/or steps located between the angle wing brackets and remove.



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5

Label all diesel particulate filter (DPF) wiring harness and differential pressure sensor connectors (if required) to aid in reassembly.



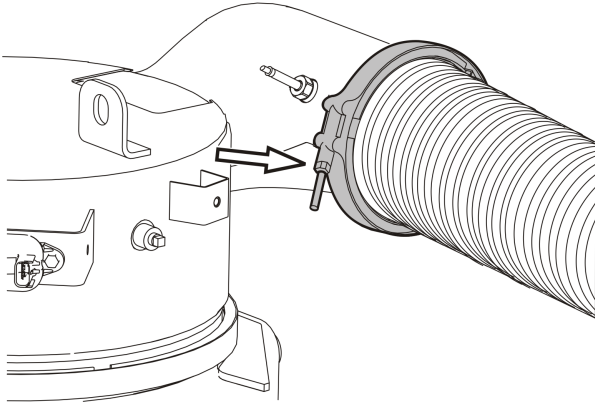
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6

Disconnect all wiring and sensor connectors from the DPF and cut all tie straps securing the harness.

7

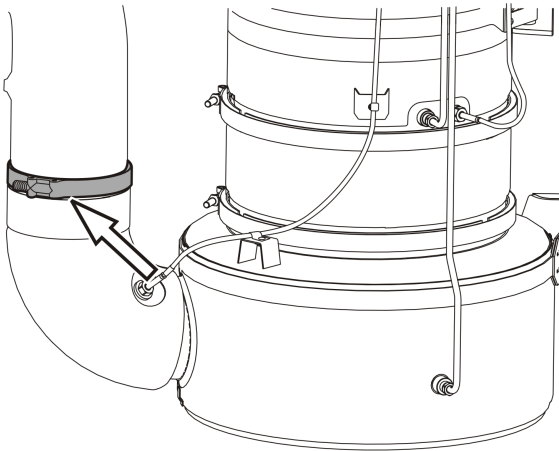
Remove the upper exhaust V-band clamp that connects the flex pipe to the inlet module of the DPF.



W2005910

8

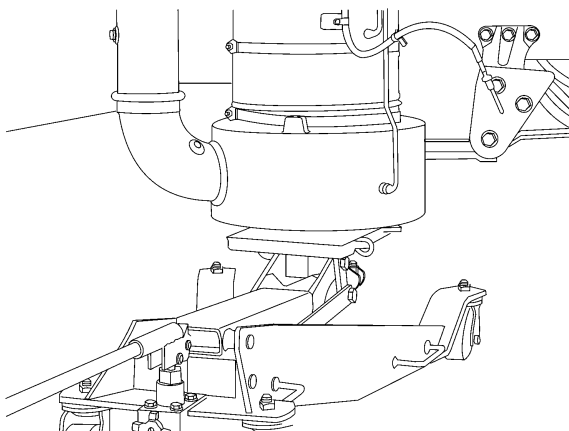
Remove the lower exhaust V-band clamp that connects the DPF outlet module to the exhaust pipe.



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9

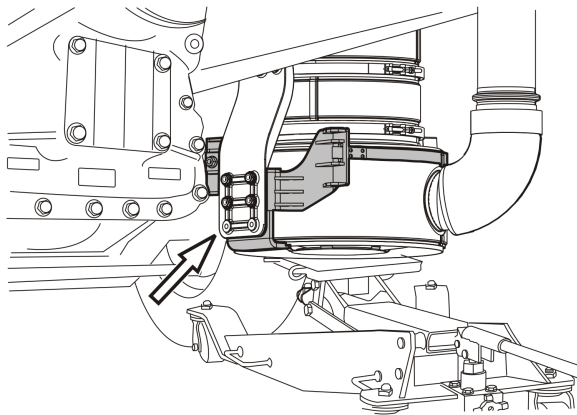
Remove the upper band clamp that supports the DPF to the chassis upper mounting bracket.



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10

Position a flat surface jack with a very stable support (such as a transmission jack) under the base of the DPF.



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11

Remove the fasteners which secure the DPF lower supporting bracket to the chassis frame bracket. This will release the weight of the DPF onto the transmission jack.

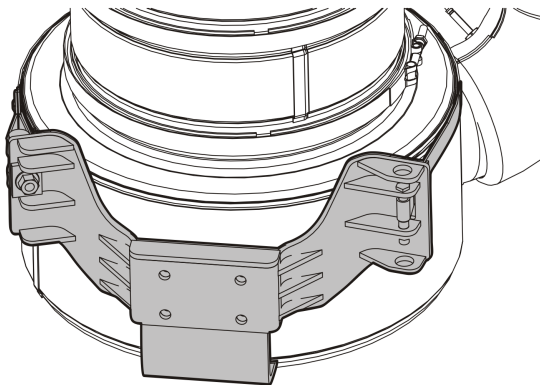
Note: Removing the lower bracket will release the weight of the DPF. Ensure the transmission jack is properly positioned and level.

12

Lower and roll the transmission jack out from the right side of the chassis to remove the DPF assembly.

13

Remove the lower band clamp and bracket from the DPF assembly.



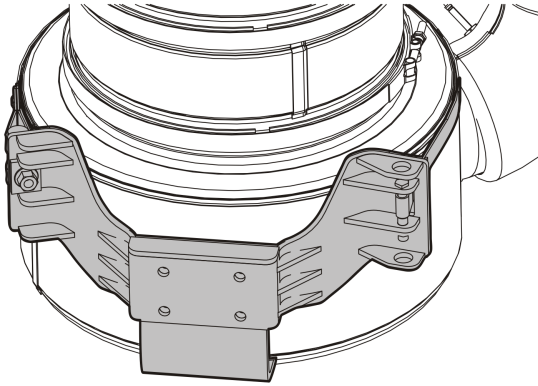
W2005914

Installation

1

Install the lower band clamp and bracket onto the DPF assembly. Ensure that the bracket lower support foot aligns with the notch located on the bottom of the muffler assembly. The bracket only fits correctly in one location. Torque-tighten the band clamp fasteners to 27 ± 5 Nm (20 ± 4 ft-lb).

27 ± 5 Nm
(20 ± 4 ft-lb)



W2005914

2

Position the DPF assembly (with the installed lower bracket) onto a flat level transmission jack and roll the jack under the chassis. Lift the DPF assembly with the transmission jack and align the lower bracket with the chassis frame bracket. Secure the DPF bracket to the chassis frame bracket. Torque-tighten the fasteners to 48 ± 8 Nm (35 ± 6 ft-lb). Remove the transmission jack.

48 ± 8 Nm
(35 ± 6 ft-lb)

3

Install the upper band clamp which supports the DPF to the frame upper mounting bracket. Torque-tighten the band clamp fasteners to 27 ± 5 Nm (20 ± 4 ft-lb).

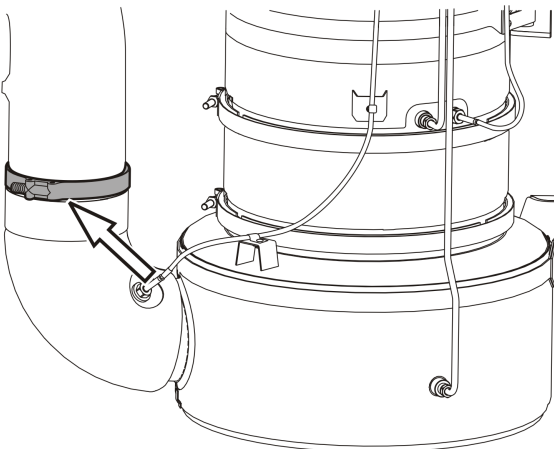
27 ± 5 Nm
(20 ± 4 ft-lb)

4

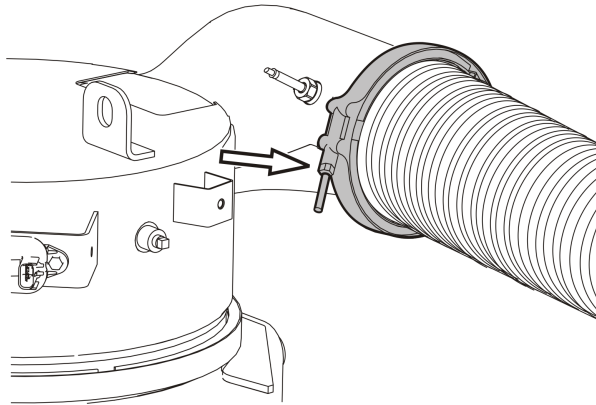
Install the lower exhaust V-band clamp that connects the DPF outlet module to the exhaust pipe. Torque-tighten the clamp fastener to 7 ± 2 Nm (62 ± 18 in-lb).

Note: Inspect clamps for galled threads or deformed clamping surfaces. Replace clamps as required.

7 ± 2 Nm
(62 ± 18 in-lb)



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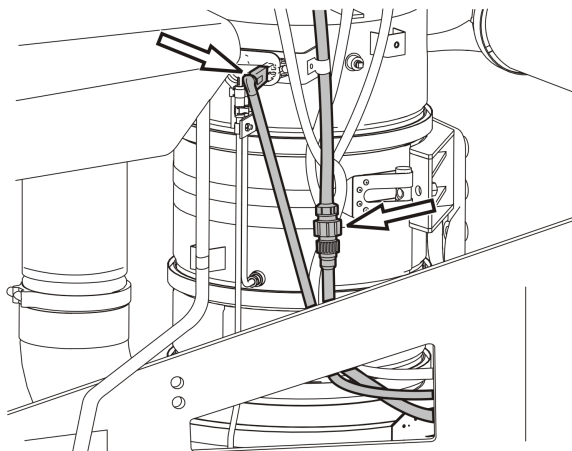
W2005910

5

Install the upper exhaust V-band clamp that connects the flex pipe to the inlet module of the DPF. Position the clamp as shown to prevent the clamp from contacting other components. Torque-tighten the clamp fastener to 7 ± 2 Nm (62 ± 18 in-lb).

Note: Inspect clamps for galled threads or deformed clamping surfaces. Replace clamps as required.

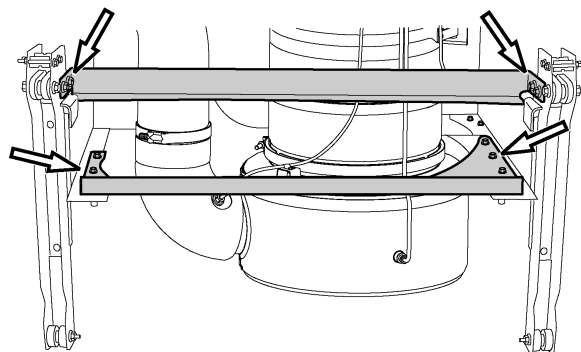
7 ± 2 Nm
(62 ± 18 in-lb)



W2005909

6

Reconnect the DPF wiring harness connectors as marked at disassembly. Secure the harness wires using nylon tie straps.



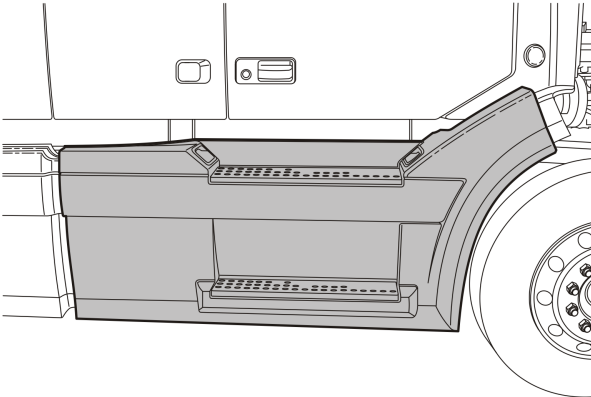
W2005956

7

Position the connector braces and/or steps located between the angle wing brackets and secure using bolts and nuts. Torque-tighten to specification.

8

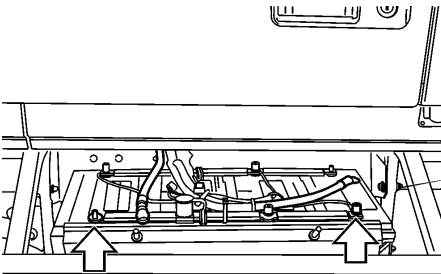
Reinstall the right side chassis fairing, if equipped.



W2005915

9

Install all previously removed cables to the ground (negative) battery terminals.



W2003815

10

Start the engine, check for leaks and proper operation. Fault codes may need to be cleared at this time.