

# NON-COMPLIANCE RECALL

Volvo Trucks North America  
Greensboro, NC USA



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Date	Number	Release	Page
12.2023	EC0028	01	1(11)

## EC0028 DPF Replacement (VN, VHD VAH)

### RECALL INFORMATION

(December 2023)

Volvo has determined that certain 2014 -2018 model year VN, VHD, and VAH Vehicles require a replacement Diesel Particulate Filter (DPF) along with updated software.

To ensure Volvo Trucks remain emission compliant with these vehicles, repair instructions outlined in this document to replace the DPF and reprogram certain control modules.

### VEHICLES AFFECTED

Certain Volvo Trucks manufactured between January 06, 2015, and December 23, 2016.

### VEHICLE QUANTITY

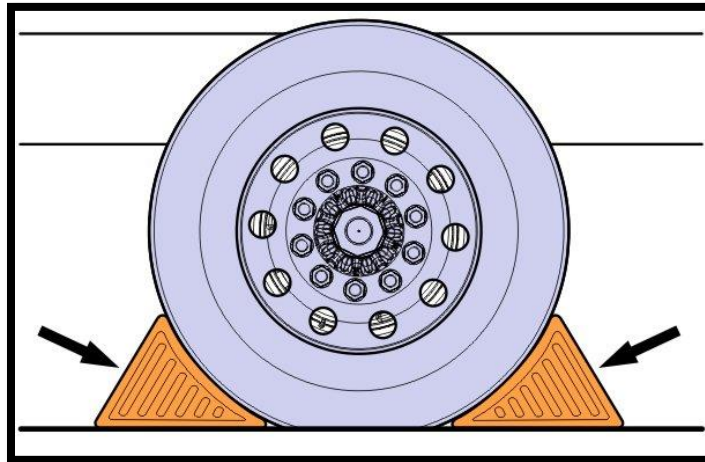
There are 2533 vehicles affected by this recall. (2,297\_US, 102\_CAN)

### Parts

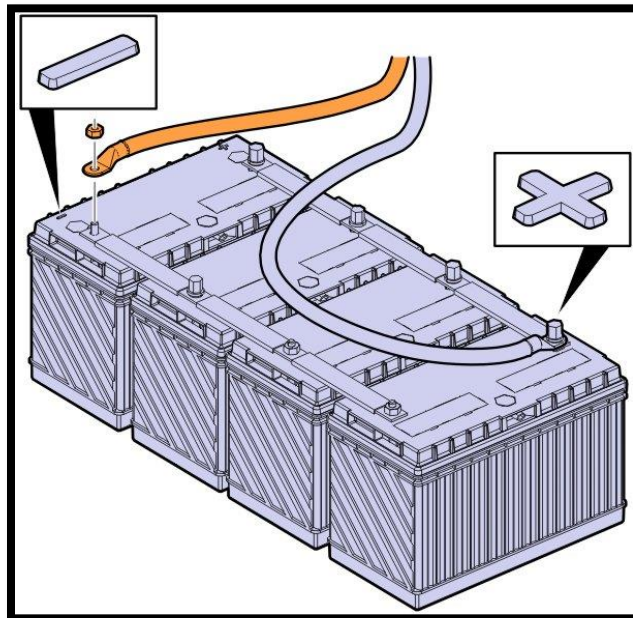
Non-Vertical Orientation		
Part Number	Description	Quantity
22810502	Filter Kit	1
21095726	V-Band Gasket	1
21021850	V-Clamp	1
992319	Stainless Cable Tie	2
21376801	Dosing Sealing Plate	1
60111689	Hex. Socket Screw	3
85152363	Recall Sticker	1

### Repair Procedure

1. Park the vehicle on a level surface.
2. Apply the parking brake.
3. Place the gear lever in neutral.
4. Install the wheel chocks.

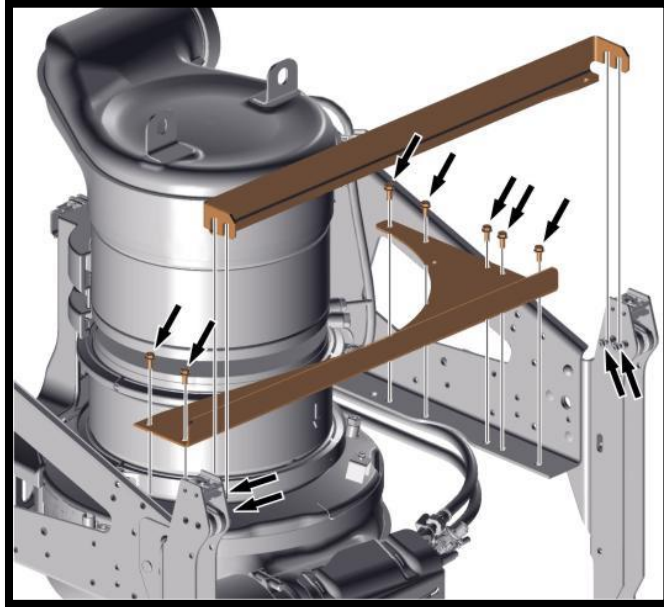


5. Disconnect the cable from the negative terminal.

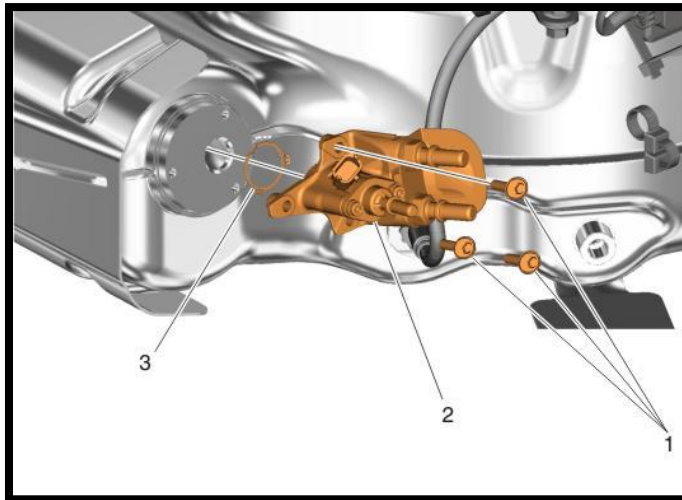


## Removal

6. Remove the fasteners securing the right-side steps, heat shield, and braces located between the angle wing brackets and remove the steps, heat shield, and braces.



7. Remove the aftertreatment Diesel Exhaust Fluid (DEF) doser fasteners and the aftertreatment DEF doser from the aftertreatment Diesel Particulate Filter (DPF). Remove and discard the aftertreatment DEF doser gasket. Cover the aftertreatment DEF doser with a plastic bag and secure the bag with a tie strap.



1. Fasteners.
2. Aftertreatment DEF Doser.
3. Gasket.

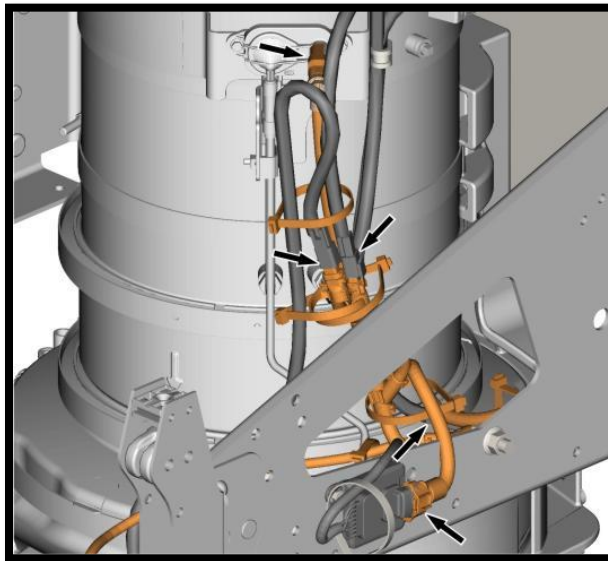
**Important**

Aftertreatment DEF is an irritant. Contact with DEF can irritate the skin and eyes. Inhaling aftertreatment DEF mist can cause lung irritation. Avoid aftertreatment DEF contact with skin and eyes. Avoid breathing mist created by aftertreatment DEF spray.

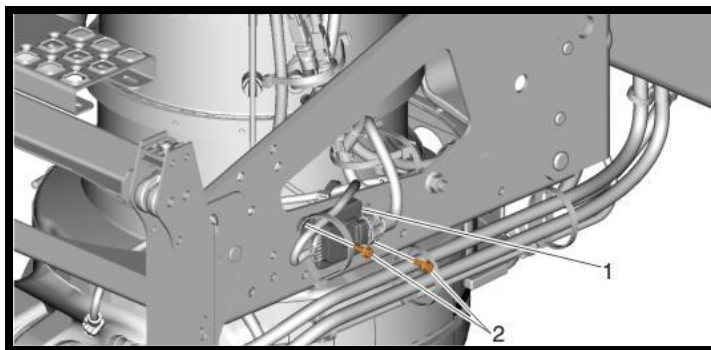
**Important**

When disconnecting hoses and components, do not spill aftertreatment DEF onto separated connectors. If this occurs, replace the connectors immediately. Cleaning with water or compressed air will not help as the aftertreatment DEF quickly oxidizes metal and, due to capillary action, “creeps” along cabling at a speed of about 0.6 meters/hour

8. Label all aftertreatment DPF wiring harness and differential pressure sensor connectors (if required) to aid in reassembly.

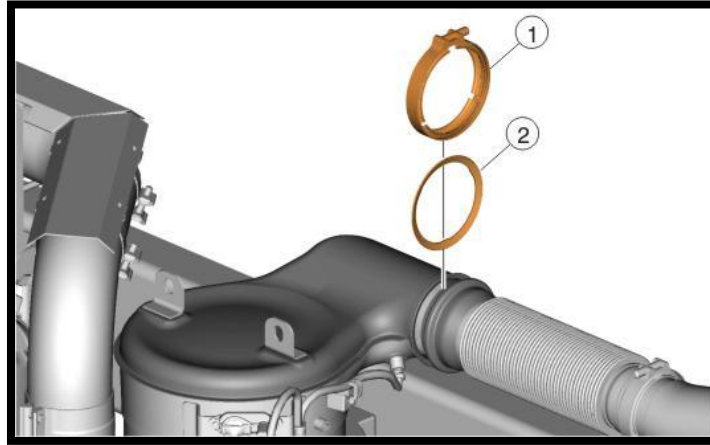


9. Disconnect all wiring and sensor connectors from the aftertreatment DPF and cut all tie straps / remove clamp securing the harness.
10. Remove the fasteners and remove the NOx sensor module from the front angle wing bracket.



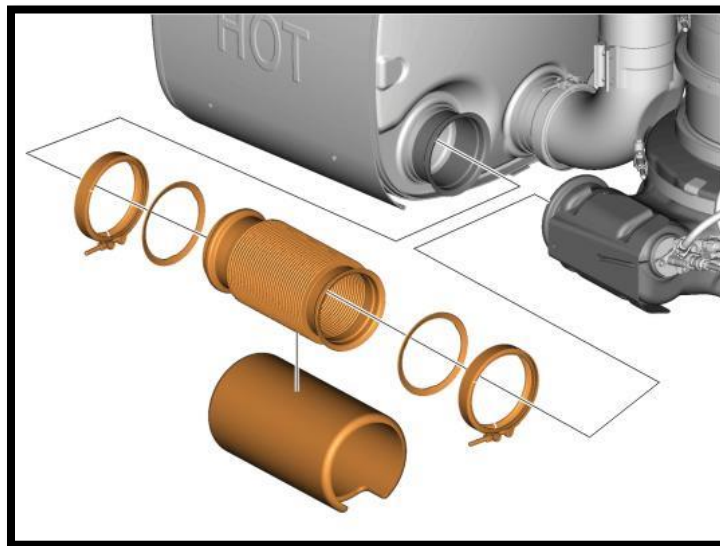
1. NOx Sensor Module
2. Fasteners

11. Remove and discard the upper exhaust V-band clamp that connects the flex pipe to the inlet of the aftertreatment DPF.



1. V-Band Clamp
2. Gasket

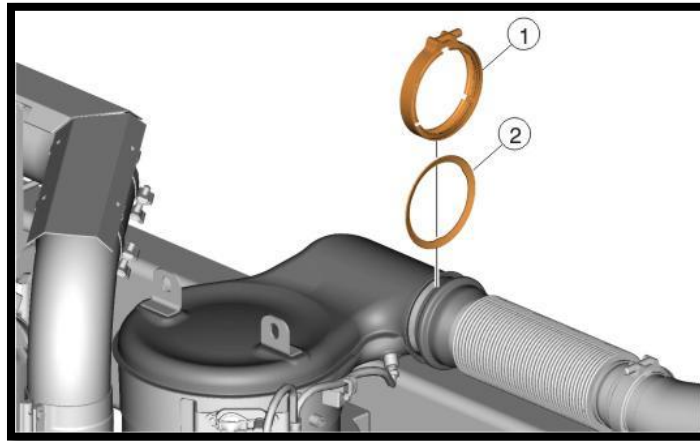
12. Remove and discard the lower exhaust V-band clamp that connects the aftertreatment DPF outlet to the thermal pipe.



13. Remove and discard the V-band clamp that connects the aftertreatment Selective Catalytic Reduction (SCR) catalyst and thermal pipe. Remove the thermal pipe. Remove and discard the gaskets from the thermal pipe.
14. Position a flat surface jack with a very stable support (such as a transmission jack) under the base of the aftertreatment DPF. Raise the jack until it will support the weight of the aftertreatment DPF.
15. Remove the upper and lower band clamps. Turn the aftertreatment DPF slightly to disconnect the inlet pipe.
16. Lower and roll the transmission jack out from the right side of the chassis to remove the aftertreatment DPF assembly.

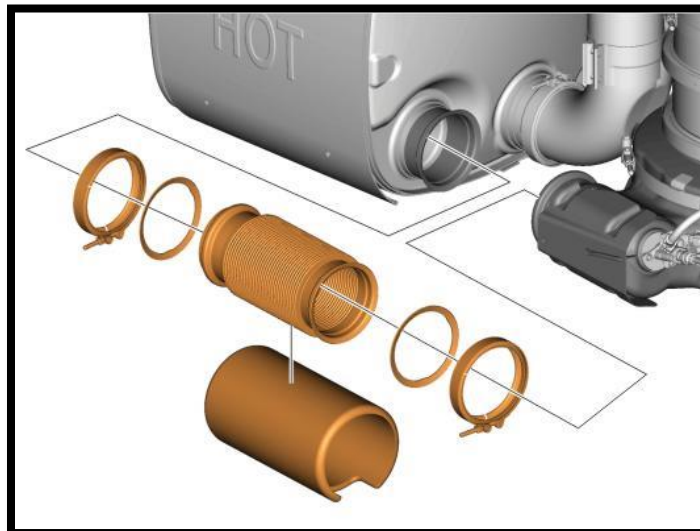
## Installation

17. Clean the gasket sealing surfaces on the upper exhaust flex pipe and the aftertreatment DPF inlet pipe. Remove and discard the gasket from the upper exhaust flex pipe.
18. Position the aftertreatment DPF assembly onto a flat level transmission jack and roll the jack under the chassis. Lift the aftertreatment DPF assembly with the transmission jack and loosely connect the upper and lower band clamps around the aftertreatment DPF. Lower the aftertreatment DPF onto the support bracket and remove the jack. Make sure the aftertreatment DPF is properly positioned on the alignment pad. Tighten the band clamps to spec.
19. Install a new V-band clamp and gasket on the upper exhaust flex pipe and position the flex pipe to the inlet of the aftertreatment DPF. Tighten the clamp fastener to spec.

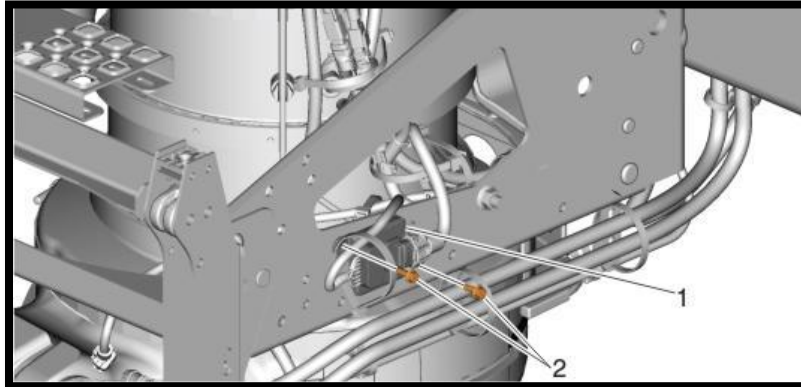


1. V-Band Clamp
2. Gasket

20. Clean the gasket sealing surfaces on the aftertreatment DPF outlet and SCR catalyst inlet and install new gaskets. Position the thermal wrapped exhaust pipe and install new clamps. Tighten the clamps to specification.

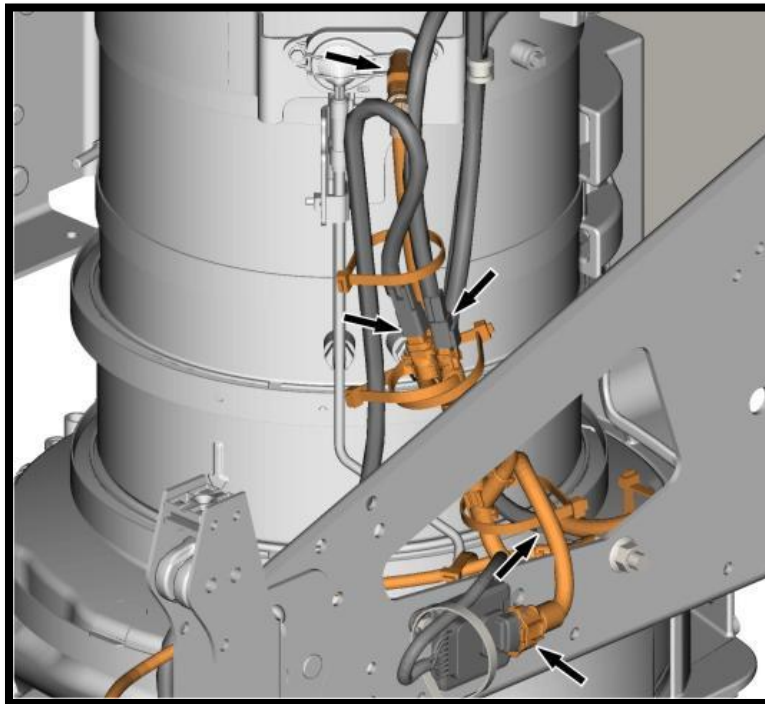


21. Position the NOx sensor module on the front angle wing bracket and install the fasteners.

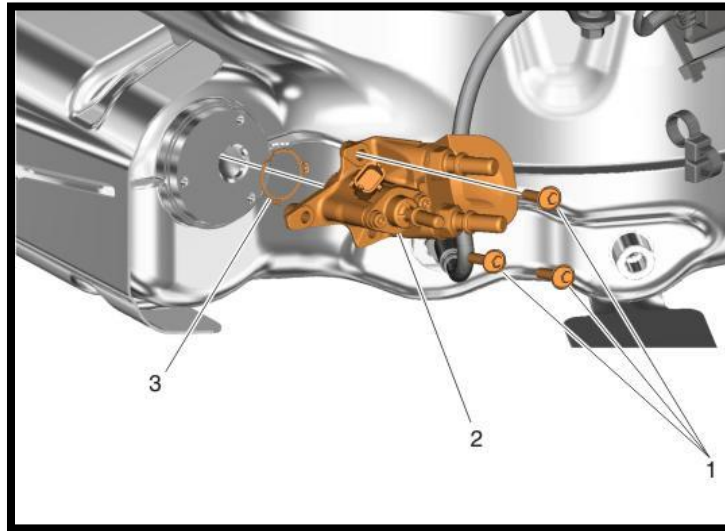


- 1. NOx Sensor Module
- 2. Fasteners

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

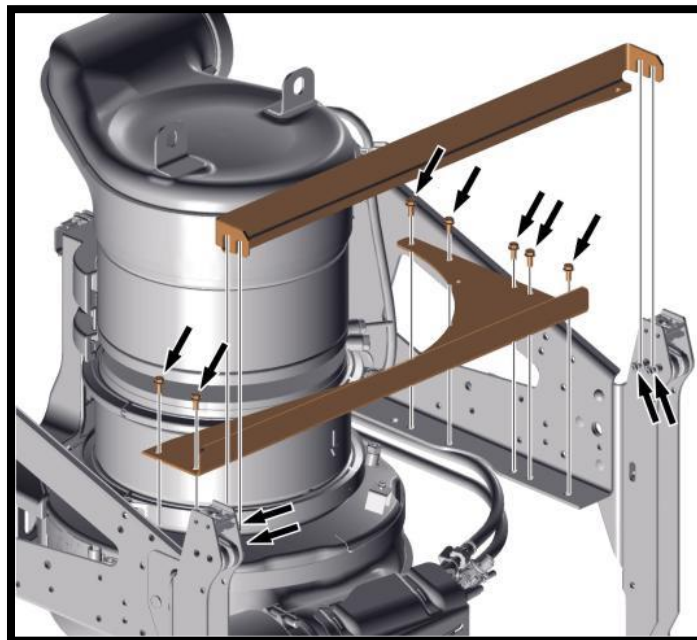


23. Position a new gasket on the aftertreatment DEF doser and install the unit on the aftertreatment DPF. Tighten fasteners to specification.



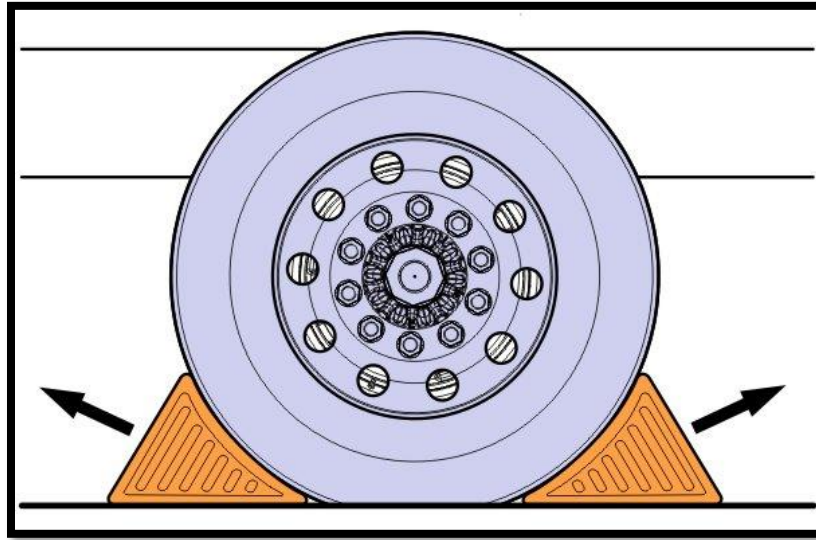
1. Fasteners
2. Aftertreatment DEF Doser
3. Gasket

24. Position the right-side braces, head shield, and steps located between the angle wing brackets and secure using fasteners. Tighten the fasteners to specification.





27. Remove wheel chocks.



## Software Updates

28. Connect to truck using PTT.
29. Under Programs Tab, Program Engine Control Module (ECM MID 128) using operation 1700-08-03-39 in PTT.
30. Clear any DTC's that may have occurred during programming
31. Return vehicle to service.

**REIMBURSEMENT**

This repair is covered by an authorized Recall. Reimbursement is obtained through the normal claim handling process.	
	<b>UCHP Reimbursement</b>
<b>Claim Type</b> (used only when uploading from the Dealer Business System)	40
<b>Recall Status</b>	
Vehicle repaired per instructions	1-Modified per instructions
<b>Labor Codes</b>	
2545-03-02-02 Aftertreatment Diesel Particulate Filter (DPF), Complete, Replacement (One) – <b>Frame-mounted DPF</b>	1.3
<b>Causal Part</b>	22413830
<b>Authorization Number</b>	M0262

**Note:** Dealers are to perform Non-Compliance Recalls on all subject vehicles at no charge to the vehicle owner regardless of mileage, age of vehicle or ownership (original purchaser or subsequent purchasers). Whenever vehicles are subject to a Non-Compliance Recall are brought to your dealership for service, it is strongly recommended that every effort be made to perform the recall correction before the vehicle is released to the owner.