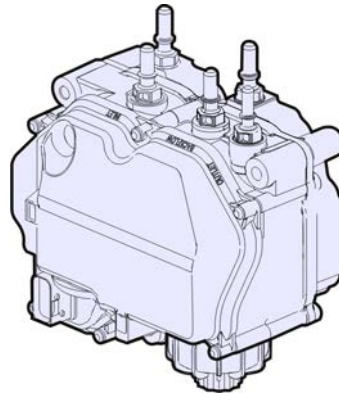




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DEF Pump Unit, Replacement CHU, CXU, GU, TD

DEF Pump Unit, Replacement



W2054664

This information covers a procedure for replacing the Diesel Exhaust Fluid (DEF) pump unit on CHU, CXU, GU and TD chassis.

Content

- “Special Tools”, page 2
- “Aftertreatment Diesel Exhaust Fluid (DEF) Pump Unit, Replacement”, page 3

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.

Special Tools

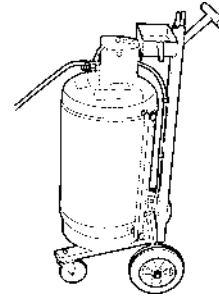
For special tools ordering information, refer to Tool Information, group 08.



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Coolant Drain Hose



W2004191

85112740

Coolant Extractor

2581-03-02-01 Aftertreatment Diesel Exhaust Fluid (DEF) Pump Unit, 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.

Removal

1

Apply parking brake and place shift lever in neutral.

2

Remove all cables from ground (negative) battery terminals to prevent personal injury from electrical shock and prevent damage to electrical components.

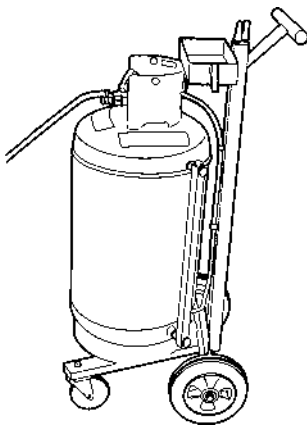
3

If equipped, remove the side fairing covering the Diesel Exhaust Fluid (DEF) tank.

4

Connect the coolant extractor to the drain fitting at the bottom of the radiator and drain the coolant.

Note: An alternate method is to connect the coolant drain hose to the drain fitting and drain the coolant into a suitable container.

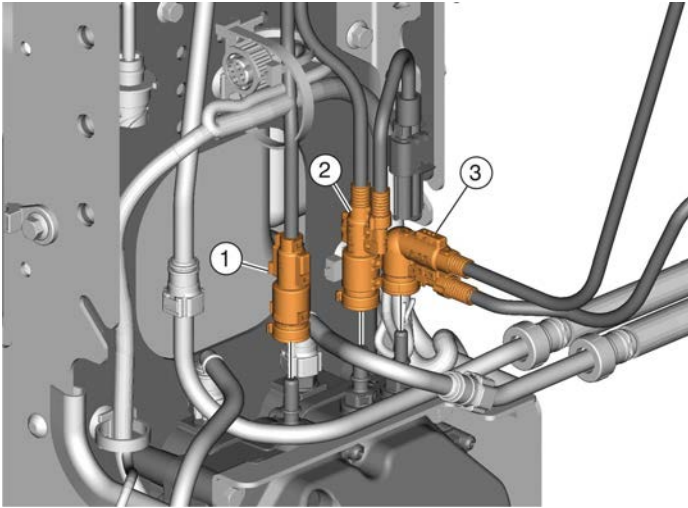


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DANGER

Coolant is toxic; risk of poisoning. Do not drink coolant. Use proper hand protection when handling. Keep coolant out of reach of children and animals. Failure to follow these precautions can cause serious illness or death.

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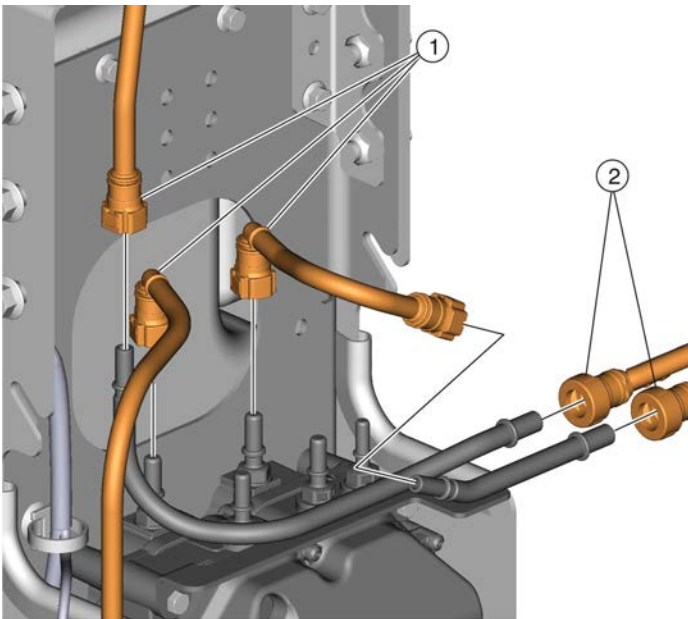
- 1 DEF Inlet Line
- 2 DEF Backflow Line
- 3 DEF Outlet Line

5

Note: For information on the handling of DEF fluid, refer to “General Safety Practices”, Group 20.

Note: If inlet and backflow lines are switched, the system will not start.

Mark the DEF lines before removal. Place a suitable container under the DEF tank to catch fluid that may drain from the pump. Remove the DEF inlet, backflow and outlet lines from the pump.

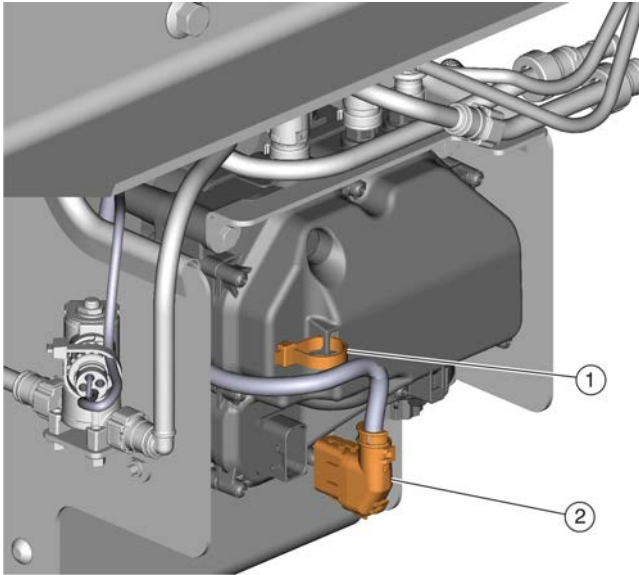


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- 1 Inlet Coolant Lines
- 2 Outlet Coolant Lines

6

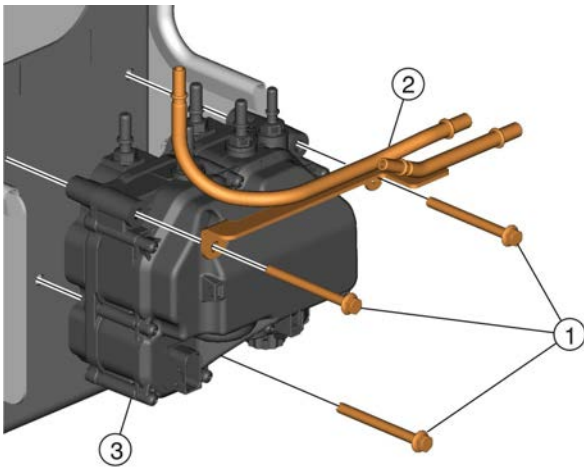
Remove the inlet and outlet coolant lines from the pump. Place protective caps on the DEF and coolant connectors.



W2055460

- 1 Cable Tie
- 2 Wiring Harness

7
Remove cable tie and disconnect the wiring harness from the DEF pump. Cover the electrical connector with a plastic bag to protect from possible damage from the DEF.

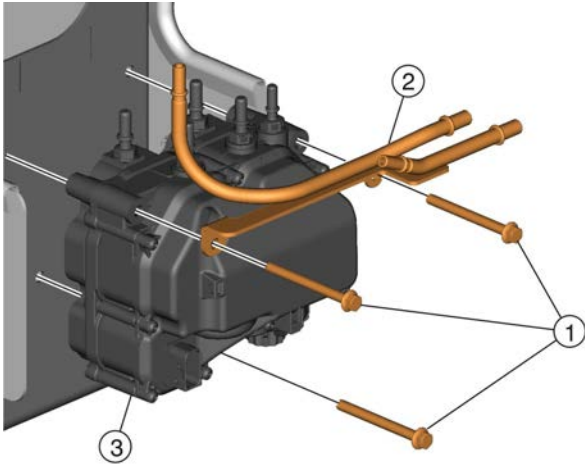


W2055463

- 1 Fasteners
- 2 Bracket
- 3 DEF Pump

8
Remove the DEF pump from the tank by removing the fasteners along with the bracket.

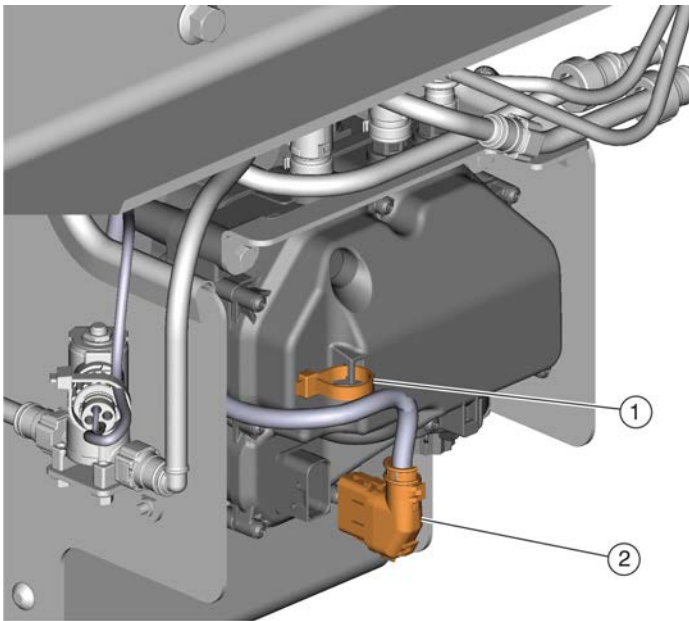
Installation



W2055463

- 1**
Install fasteners to attach bracket and the DEF pump onto the tank. Tighten the fasteners to specification. Refer to Specifications in Group 20.

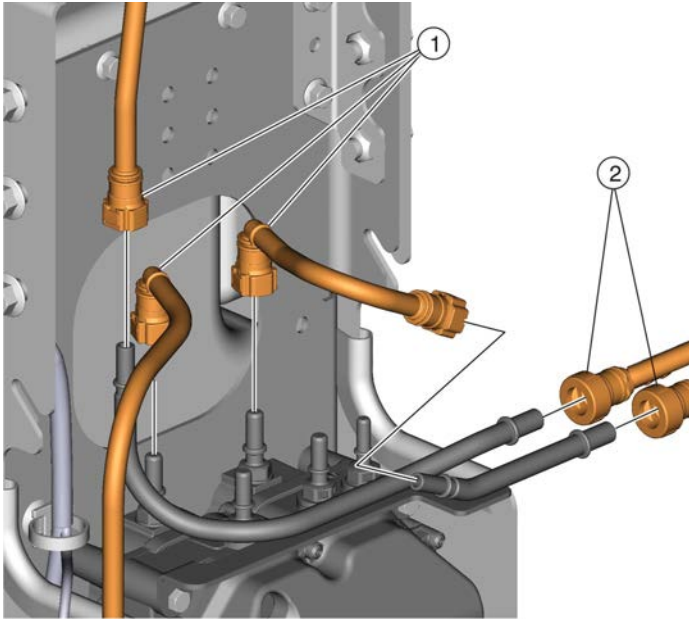
- 1 Fasteners
- 2 Bracket
- 3 DEF Pump



W2055460

- 2**
Remove plastic bag from the electrical connector. Connect the wiring harness to the DEF pump and secure the harness using a cable tie.

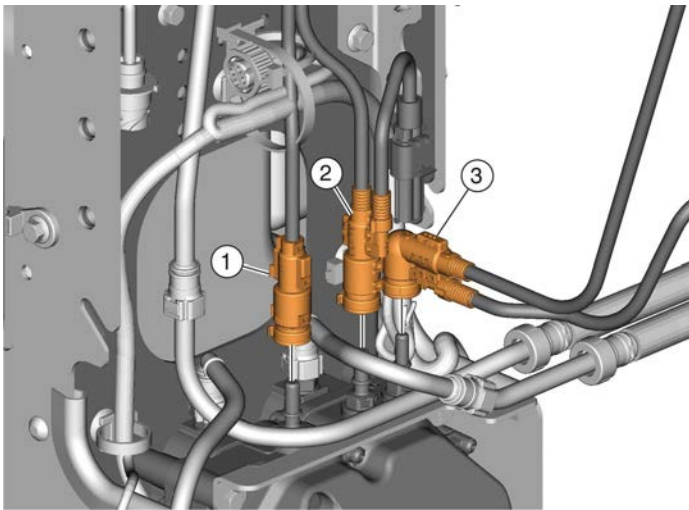
- 1 Cable Tie
- 2 Wiring Harness



W2055462

- 1 Inlet Coolant Lines
- 2 Outlet Coolant Lines

3
Install the inlet and outlet coolant lines onto the DEF pump.



W2055927

- 1 DEF Inlet Line
- 2 DEF Backflow Line
- 3 DEF Outlet Line

4
Install DEF inlet, backflow and outlet lines onto the pump.
Note: If inlet and backflow lines are switched, the system will not start.

5
If equipped, install the side fairing that covers the DEF tank.

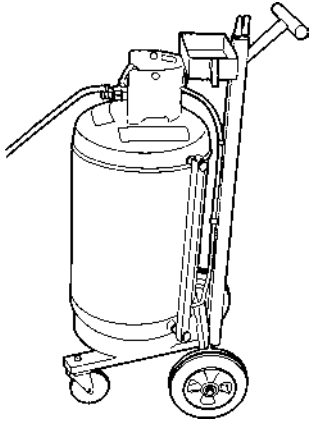
6

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

7

Fill the cooling system with the recommended coolant using the coolant extractor. Ensure the coolant system is full.

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8

Use the diagnostic tool to purge the air out of the coolant heating system.