

REMOTE DIAGNOSTICS REPAIR INSTRUCTIONS



DTC: P0217-00

Bulletin: RD24-037 Date: December 17, 2024

Description: Engine Coolant Over Temperature Condition

Applies to: US24 Emissions VN (4) B1

For Spanish click here: [ESPAÑOL](#) For French click here: [FRANÇAIS](#).

General Information

These repair instructions are intended to address the following fault(s):

DTC	Description	Possible Cause	Possible (Observable) Symptoms
P0217-00	Engine Coolant Over Temperature	• Extreme driving conditions • Coolant thermostat • Engine cooling fan • Radiator • Engine Cooling System • Coolant pump • Cylinder Head • Oil cooler	• High derate with potential engine shutdown

Required Parts

Part Number	Description	Quantity
21613426	Thermostat	1

Additional Resources

These repairs are the most likely fix for the identified fault, if this does not fix the issue, Tech Tool will need to be used for more detailed diagnostics. If filing a warranty claim, please include the ASIST case number.

Labor Code	
2627-03-02-02	1.1
3100-09-01-05 and 3100-09-01-06	0.2 each
Causal Part	21613426

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Repair Instructions

2627-03-02-02Thermostat, Replacement



Illustrations may differ slightly from the actual vehicle being serviced. However, key components addressed in this information are represented as accurately as possible.



Colors used in illustrations are for highlighting purposes only and do not correspond to the actual colors of the vehicle.



All threaded fasteners that do not have a tightening torque specification in the information are tightened to a standard torque. Standard torques are available in the following specification. ➡ Standard Tightening Torques



WARNING

Risk of burn injuries.

The coolant may be hot.

- ▶ The cooling system is under pressure and can reach a temperature sufficient to cause burns. Allow the coolant temperature to reach a safe level before starting the work.
- ▶ Remove the coolant tank cap carefully. Use appropriate protective equipment.



CAUTION

Service Information Advisory.

If you are not properly trained and certified in this procedure, ask your supervisor for training before you perform it.

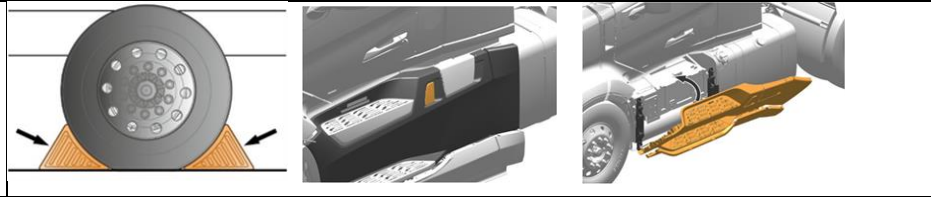
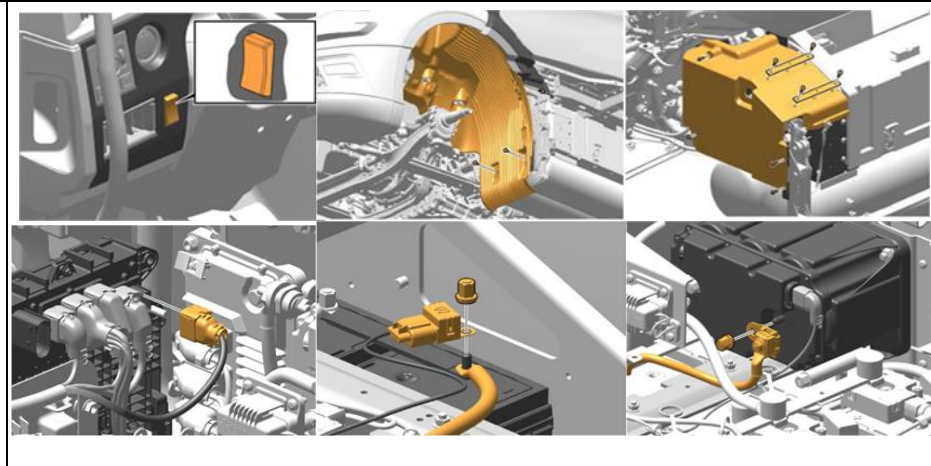
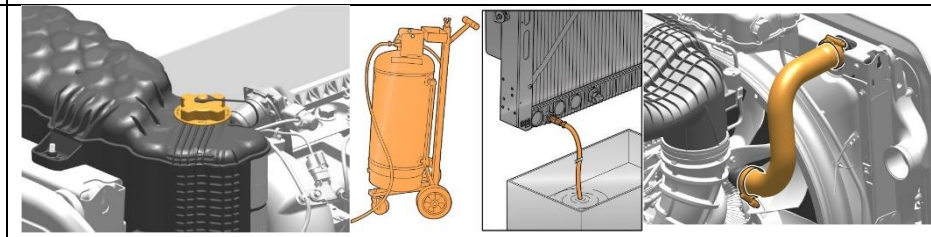
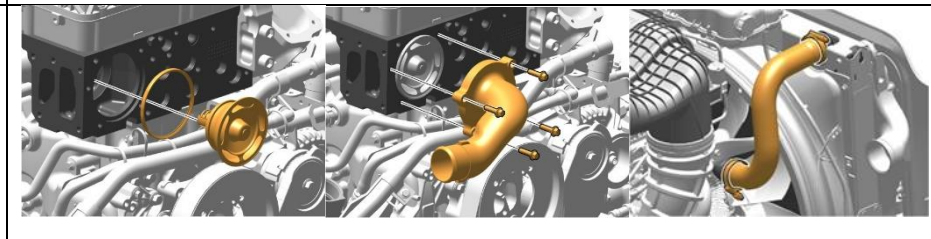
- ▶ You must read and understand the precautions and guidelines in Service Information, Function Group 2, "General Safety Practices, Engine" before performing this procedure.

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Park the vehicle on a level surface. Apply the parking brake. Place the gear lever in neutral. Install the wheel chocks. Unlatch the LH fairing. Remove the tether. Remove the fairing.	
Decommission the low voltage system. 1 Turn the dash mounted battery switch to the (OFF) position or (if equipped) press the LOCK button twice. 2 Remove the screws and move the splash shield out of the way. 3 Remove the nut, screws, and brackets. Remove the battery switch cover. 4 Turn the battery disconnect switch to the (OFF) position. 5 Disconnect the connector. 6 Unlatch the battery cover and remove. 7 Remove the nut, fuse, and the battery negative cable. 8 If equipped with Ultra Capacitor. Remove the nut and battery negative cable from ultra capacitor.	
Unlatch and raise the hood. Note: If the vehicle is equipped with a removable bumper end cap remove. Remove coolant filler cap. Drain the cooling system. Remove top hose.	
Remove screws and housing. Remove the sealing ring & thermostat. Install new sealing ring & thermostat. Install housing & screws. Install hose tighten clamps to 6.5 Nm 5 lb-ft.	

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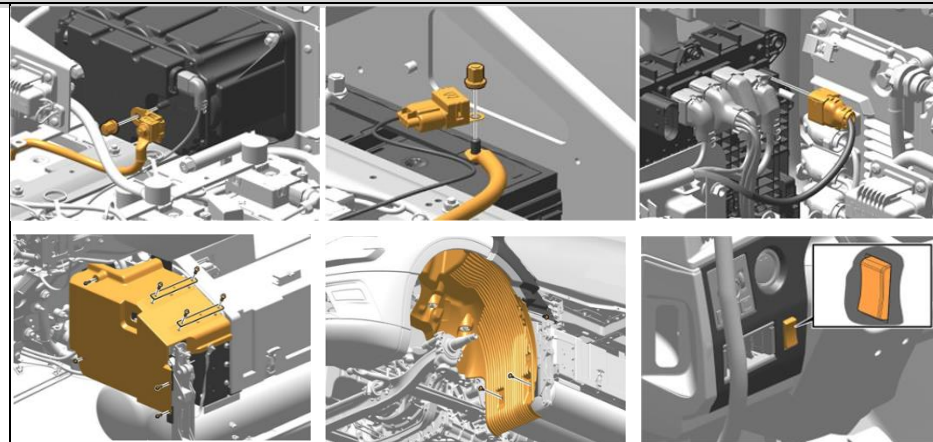
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Commission the low voltage system.

- 1 Install the battery negative cable from ultra capacitor if equipped. Install the nut.
- 2 Tighten the nut to torque. Tightening torque cable terminal, nut 20 ± 2 Nm (15 ± 1 lbf·ft)
- 3 Install the battery negative cable. Install the fuse. Install the nut.
- 4 Tighten the nut to torque. Tightening torque battery, terminal, nut 20 ± 2 Nm (15 ± 1 lbf·ft)
- 5 Install the battery cover. Latch the battery cover. Connect the connector. Turn the switch to the (ON) position.
- 6 Install the battery switch cover. Install the brackets. Install the screws. Install the nut.
- 7 Position the splash shield. Install the screws.
- 8 Turn the dash mounted battery switch to (ON) position or (if equipped) push the Unlock button twice.

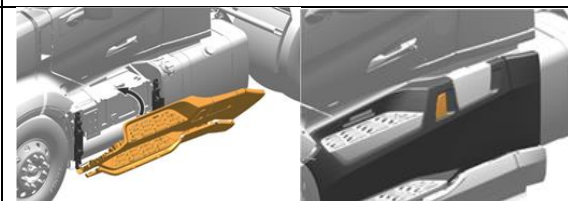


Install the LH fairing.

Install the tether.

Latch the fairing.

Lower the hood. Note: Ensure that the hood is latched.



Fill the coolant system. Note: Use recommended coolant. Fill gradually to obtain good degassing.

Install filler cap. Start engine, check for leakage.

Stop engine, check coolant level. Fill coolant level to MAX mark.

Clear codes with PTT.

Remove the wheel chocks.

