

REMOTE DIAGNOSTICS REPAIR INSTRUCTIONS



DTC: P2463 - 00

Bulletin: RD24-30

Date: December 17, 2024

Description: Particulate Filter Restriction - Soot Accumulation Bank 1 - No additional information

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
P2463 - 00	Particulate Filter Restriction - Soot Accumulation Bank 1	- Regeneration process is not functioning - Regeneration inhibited, driver has not allowed regeneration to take place - Aftertreatment Hydrocarbon Doser - Catalyst	Low Power

Required Parts

Part Number	Description	Quantity
23937771	AHI Doser (US24)	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	
3100-09-01-06 Low Voltage System, Decommissioning	0.2
3100-09-01-05 Low Voltage System, Commissioning	0.2
2584-03-02-03	0.8
Causal Part	23937771

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NOTE: Before proceeding, please make sure that ALL electronic control modules are up to date and there are no pending updates available.

2584-03-02-03 Aftertreatment Hydrocarbon Doser, 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 severe burns.

Exhaust gases and component surfaces are hot. Avoid exposure and contact.

► Wait for the engine to cool before working with exhaust-related components.



WARNING

Risk of burn injuries.

Heated components and mechanical parts can cause burns.

► Exercise caution when working with heated components. Always use the 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.

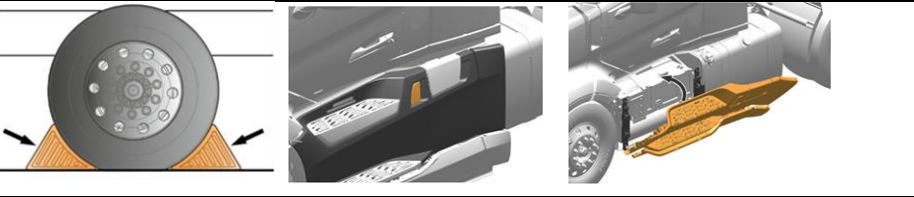
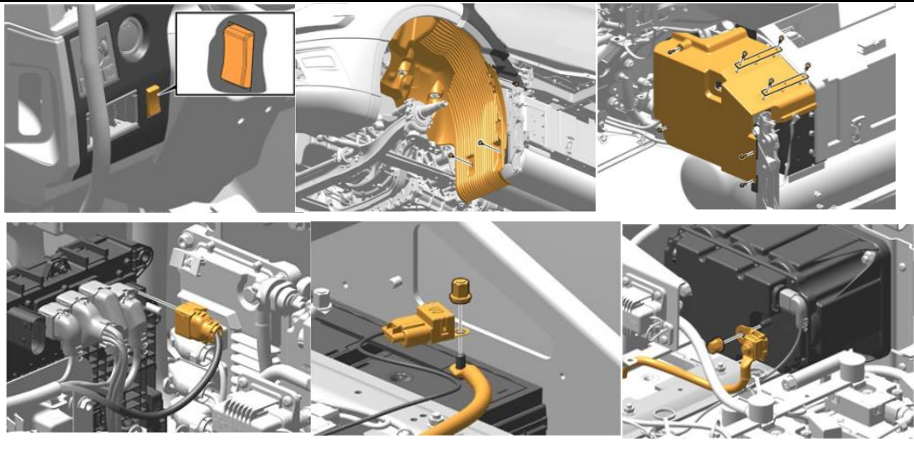
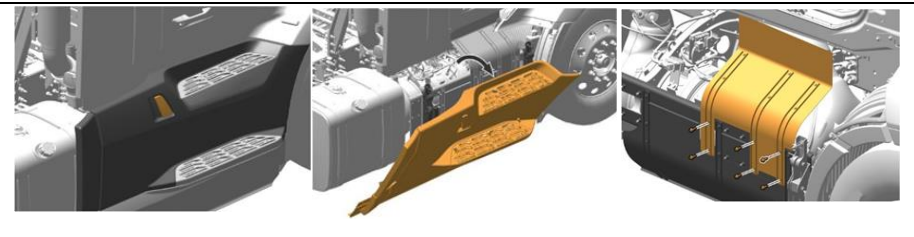
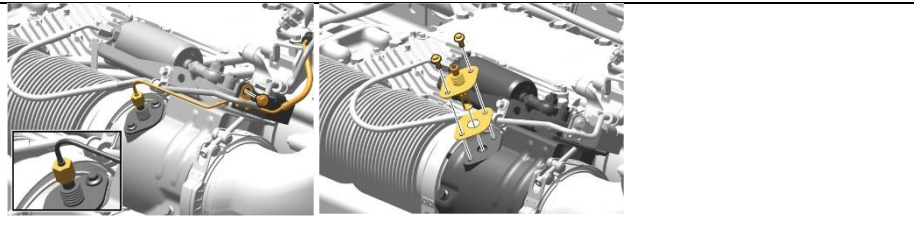
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Park the vehicle on a level surface. Apply the parking brake. Place the gear lever in neutral. Install the wheel chocks. Unlatch the LH fairing. Remove the tether. Remove the fairing.	
Decommission the low voltage system. 1 Turn the dash mounted battery 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. Unlatch the RH fairing, remove the tether, remove the fairing. Remove the screws, remove the heat shield.	
Remove the screw. Loosen the nut. Move aside the fuel pipe. Remove the screws. Remove the injector. Remove the gasket. Clean the contact surface. Install the gasket. Note: Use a new part. Install the injector. Install the screws. Note: Use new parts. Torque-tighten the screws. Tightening torque Injector (AHI (Aftertreatment Hydrocarbon Injector)), screw 14 ± 2 Nm (10 ± 1 lb-ft).	

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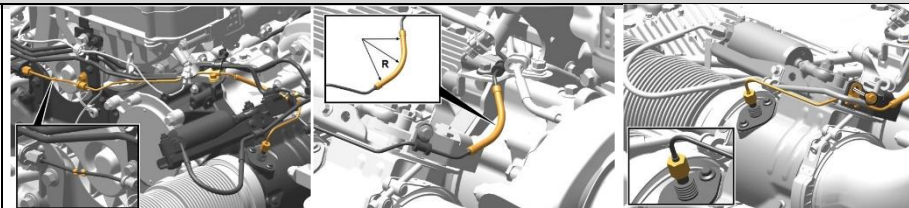
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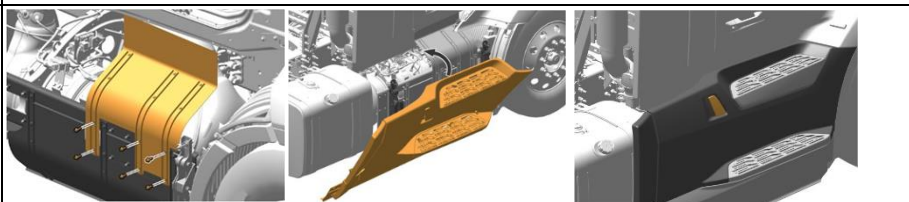
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Conditions

If the pipe is reused, remove a clip. If there are no clips, replace the pipe. If installing new pipe, do not remove any clips. **Note:** If the pipe has been disconnected on either end for service this counts as a reuse condition. The minimum bend radius is 50mm at the flexible line. Do not twist the tube and crimp. Install and tighten fuel pipe cap nut. Torque to 25 ± 6 Nm (18 ± 4 lb-ft).

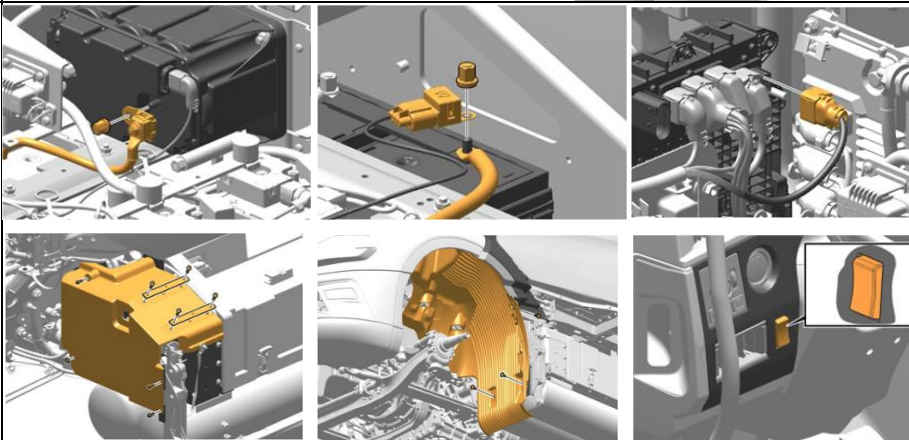


Install the heat shield. Install the screws.
Install the RH fairing. Install the tether.
Close and latch the fairing.



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.
Connect (Premium Tech Tool). Execute **Exhaust Aftertreatment, diagnostic**.
Select Option C. Perform the "AFI adaptative factor reset".
Disconnect (Premium Tech Tool). Start the engine. Check for leakage.
Stop the engine. Remove the wheel chocks.

