

SERVICE PROCEDURE

REFERENCE: FSA 202514 AB01

DATE: 15.04.2026

SUBJECT: GEN-2 SCR Efficiency Issue (Muffler HW)

FSA TYPE: Customer Notification

Introduction

This technical bulletin has been prepared to define the service actions for muffler replacement, if the H476MCA, H566, and H625 vehicles continue to have SCR Eff. fault after software update performed under "FSA 202514".

FSA 202514 AB01A

Vehicles with an active ConnecTruck system will be evaluated by the F-Trucks engineering teams, and importers will be informed for any vehicles for which a muffler replacement decision is made.

FSA 202514 AB01B

For vehicles without an active ConnecTruck, the checks must be performed according to the table below, the required information must be entered into the empty fields and the corresponding **spare parts ticket must be submitted** accordingly.

Part :

Part Code	Part Name	Quantity
KTNC46 5J256 A*/B*/C*/D*/E*/F*/G*/H*	Exhaust Muffler	1
GC46 5K222 GA	Bolt M16x1,5x65	4
W500010 S437	Bolt M6x1x10	3
DC46 5270 DA	Clamp	1
GC46 5K203 AA	Gasket	1

Labour Code :

Labour Code	Labour Name	Duration (hr)
F3V17 DTCREADING	DTC Reading Via FODIT	0.20 hr
F4V53 SVCREGEN	Service Regeneration	0.30 hr
F5V89 DRIVETEST	Test Drive	0.50 hr
F4V44 5J256	Muffler R/I (EU6) (Clamp of the Exhaust Connection and Wiring of Muffler R/I Inc.)	2.00 hr
F4V44 5K277TOP	Muffler Top Cover R/I	0.15 hr
F4V44 5K277SENSOR	Muffler Sensor Cover R/I	0.15 hr
F4V44 5K277FRONT	Muffler Front Cover R/I	0.15 hr
F4V53 5J256LEAK	Exhaust Leak Checks acc. To FSA 202514	0.25 hr
F4V53 5J256CON	Controls & Doc. Process (Regeneration and Urea Quality Statistics)	0.25 hr

IMPORTANT NOTE :

This bulletin is intended for vehicles on which action FSA 202514 has already been performed. If FSA 202514 has not been carried out on the vehicle, the first step must be to ensure that this action is completed.

The muffler removed from the vehicle must not be scrapped under any circumstances. The part manufacturer will collect the removed muffler (part base number 5J256) from the dealer using a dedicated vehicle. The transportation cost will be covered by the manufacturer.

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Checklist for Critical Emission Fault		
Step No	Check Description	Comment / Action
1*	Initial Inspection and DTC Scan	<ul style="list-style-type: none"> Connect the FODIT device and perform a full DTC scan. Save the complete DTC report in PDF format to be submitted with the Service Technical Ticket. <p>(You can do this by selecting “Export All DTCs” after performing the DTC scan with FODIT, as shown in Figure 1)</p> <ul style="list-style-type: none"> If an error occurs during the “Export All DTCs” process, save a screenshot of all active and stored fault codes in the ECM and proceed to the next step.
2*	Relevant DTC Check	<p>Check whether any additional fault codes are present besides P20EE-00:</p> <ul style="list-style-type: none"> If none of the fault codes listed under (A) or (B) are present in the ECM and only the P20EE-00 fault code is detected, proceed to “Step No. 3.” If any of the fault codes listed under (A) and (B) are present in the ECM, these fault codes must be resolved first, and a service regeneration must be performed. Then check whether the P20EE-00 fault reappears. If P20EE-00 does not reoccur, return the vehicle to the customer and close the FSA. There is no need to proceed with the remaining sections of this TSB. If the vehicle has not performed a regeneration for an extended period, a critical emission fault may be triggered. Fault codes to be checked (A): <p>P244D-00 P20DE-00 P20CE-95 P20CE-96 P20D8-00 P20CD-02 P20DE-01 P20DE-02 P20DE-03 P20DE-04 P20D8-11 P20D8-14 P20D8-0B P20D8-0A P20DE-5 P20E1-00 P20D8-58 P20D8-19 P20DE-06 P20DE-07 P20E0-01 P20DF-00 P20E1-22 P20E1-21 P20E0-17 P20DF-16 P2A4C-22 P2A4C-21 P2A4E-00 P2A4D-00 P245E-00 P0420-00 P0299-00 P0234-00 P2229-00 P2228-00 P2002-00 P2463-00 P0108-00 P0107-00 P06A6-00 P06A6-01 P06A6-02 P06A6-03 P06A6-04 P06A7-00 P06A7-01 P06A7-02 P06A7-03 P06A7-04 P0005-00 P0007-00 P0006-00 P007D-00 P02E0-00 P02E3-24 P02E3-00 P02E2-23 P02E2-24 P02E2-25 P02E5-00 P02E4-00 P02E9-00 P02E8-00 P0546-00 P0545-00 P2033-00 P2032-00 P242C-00 P242D-00</p> <ul style="list-style-type: none"> Fault codes to be checked for errors that prevent urea dosing (B): <p>P0687-49 P0686-49 U02A2-01 U029D-00 U029E-00 U02A2-00 P2202-01 P2215-01 P204B-00 P204B-32 P204B-31 P204D-22 P204C-21 P204D-85 P20E8-01 P20F6-00 P24FF-00 P208E-00 P21C5-24 P21C5-23 P204D-24 P204C-23 P209F-00 P207F-27 P204D-12 P204C-11 P242C-00 P242D-00 P2BAF-02 P2064-01 P2049-00 P2063-00 P202E-00 P20C1-00 P20C4-00 P208B-01 P208B-24 P208B-31 P208A-00 P208B-4B P208D-00 P208C-00 P204C-00 P20A0-00 P20A3-00 P205B-22 P205B-21</p>
3*	Exhaust System Leakage Check	<p>A leakage occurring in the exhaust pipes may trigger the Critical Emission fault.</p> <ul style="list-style-type: none"> Start a service regeneration to perform the leakage check. Figure 2: Visually and manually inspect the engine-exhaust connection, exhaust flap, and DPF gasket areas to ensure there is no gas leakage. If no leakage is detected, proceed to the next step. If there is a noticeable leakage in the exhaust pipes, a video recording must be attached to the Technical Ticket. Proceed to the next step based on the feedback received in the Technical Ticket.
4*	Regeneration Statistics Check	<ul style="list-style-type: none"> Check the statistics by following the steps on FODIT: ECM > Functions > Regeneration Statistics > Execute (as described in Figure 3). Add a screenshot of the page to the Technical Ticket.
5*	Urea Quality Statistics Check	<ul style="list-style-type: none"> FODIT Check: Run the following path: ECM > Functions > Urea Quality Statistics. Add the screenshot showing the urea quality, as described in Figure 4, to the Technical Ticket.
6*	Urea Quality Check	<ul style="list-style-type: none"> FODIT Check: Run the following path: ECM > Functions > Templates > AFTT Screen. Add the screenshot showing the urea quality, as described in Figure 5, to the Technical Ticket.
7*	Final Decision and Exhaust Replacement Approval	<ul style="list-style-type: none"> Up to this step, please add the DTC record, regeneration statistics, urea quality statistics, and any other supporting evidence documents (if available) into the Service Technical Ticket. Afterwards, wait for the response that will come for the Technical Ticket so the issue can be evaluated. Please keep in mind that warranty claims for newly created work orders opened for Critical Emission faults will not be approved if they do not include all the required records. Very Important Note: The muffler removed from the vehicle must not be scrapped under any circumstances. The part manufacturer will collect the removed muffler (part base number 5J256) from the dealer using a dedicated vehicle. The transportation cost will be covered by the manufacturer.

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Please use related labour codes according to service action steps:

1* Initial Inspection and DTC Scan & 2* Relevant DTC Check : F3V17 DTCREADING, F5V89 DRIVETEST

3* Exhaust System Leakage Check : F4V53 5J256LEAK

4* Regeneration Statistics Check: F4V53 SVCREGEN

5* Urea Quality Statistics Check & 6* Urea Quality Check: F4V53 5J256CON

7* Final Decision and Exhaust Replacement Approval: F4V44 5J256, F4V44 5K277TOP, F4V44 5K277SENSOR, F4V44 5K277FRONT

Service Implementation :

1. Retrieving the DTC Report

- After vehicle identification is completed on the FODIT screen, all DTCs can be exported in PDF format by using the “**Export All DTCs**” button and If an error occurs during this process, screenshots of the faults inside the ECM must be taken.

The screenshot displays a diagnostic software interface. At the top, there are navigation tabs for 'Diagnosis' and 'Settings'. The main area is titled 'ECUs' and contains a table with the following columns: System, Status, and DTCs. The table lists several ECUs, most of which are 'Not available', while the 'ECM (Engine Control Module)' is 'Available'. On the right side of the interface, there is a vertical menu with buttons for 'Rescan', 'Show all DTCs', 'Delete all DTCs', and 'Print DTC report'. The 'Print DTC report' button is highlighted with a red border.

System ↑	Status	DTCs
× *FSA (Field Service Action)	Not available	?
× AMT (Transmission Control Unit)	Not available	?
× BCM (Body Control Module)	Not available	?
× Brake System	Not available	?
× DTCC (Digital Tachograph)	Not available	?
× ECAS (Electronically Controlled Air Suspension)	Not available	?
▲ ECM (Engine Control Module)	Available	?
× EHPAS (Electro-Hydraulic Power Assisted Steering)	Not available	?
× FIC (Forward Looking Camera)	Not available	?

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Date: 2025-03-11T10:47:27.334+0006

ECU: ACM (Audio Control Module) (Available)
DTCs: 0

ECU: AMT (Transmission Control Unit) (Available)
DTCs: 0

ECU: BCM (Body Control Module) (Available)
DTCs: 1
B12D8-15 Water Pump Supply Circuit Short To Battery or Open

ECU: DTCO (Digital Tachograph) (Available)
DTCs: 0

ECU: EAPU (Electronic Air Processing Unit) (Available)
DTCs: 0

ECU: EBS (Electronic Braking System) (Available)
DTCs: 0

ECU: ECM (Engine Control Module) (Available)
DTCs: 3

P20A2-00	Reductant Purge Control Valve A Circuit GND
Malfunction Lamp	On
Fault Type	Pending
Fault Status	NA
P20C3-00	Reductant Heater C Control Circuit Low
Malfunction Lamp	On
Fault Type	Pending
Fault Status	NA
P2BAF-00	NOx System Driver Inducement Active
Malfunction Lamp	Off
Fault Type	Confirmed
Fault Status	Healed

When exported as a PDF, information such as the type and status of all faults will also be visible.

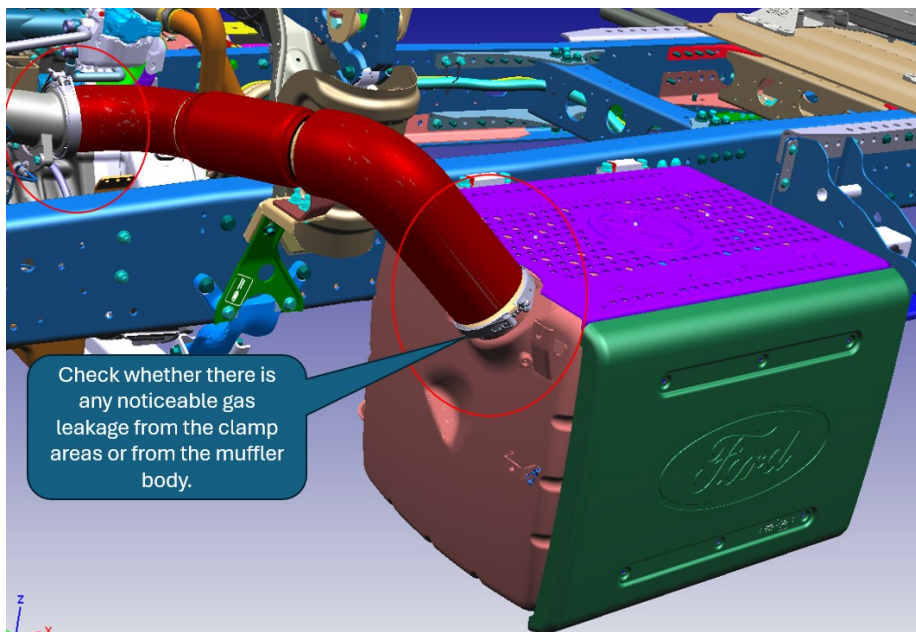
ECU: EHPAS (Electro-Hydraulic Power Assisted Steering) (Not available)
DTCs: -

ECU: FLC (Forward Looking Camera) (Available)
DTCs: 3

P0000B0	J1939 VDC2 - Steering Wheel Angle signal from EBS module is missing
P0000BE	J1939 VDC2 Yaw rate sensor signal from EBS is missing. Check EBS module errors.
P0000C0	VDC2 Lateral acceleration sensor signal is missing. Check EBS module errors.

2. Exhaust System Leakage Check

- Ensure that there is no gas leakage by visually and manually checking the engine exhaust connection, the exhaust pipe clamp and the muffler general.



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3. Regeneration Statistics Check

- Please select ECM section after vehicle identification is completed on the FODIT screen.

The screenshot shows the 'ECUs' section of the diagnostic tool. A table lists various ECUs with their status. The 'ECM (Engine Control Module)' is highlighted with a red box and a red '1' next to it.

System	Status	DTCs
*FSA (Field Service Action)	Not available	?
AMT (Transmission Control Unit)	Not available	?
BCM (Body Control Module)	Not available	?
Brake System	Not available	?
DTCO (Digital Tachograph)	Not available	?
ECAS (Electronically Controlled Air Suspension)	Not available	?
ECM (Engine Control Module)	Available	?
EHPAS (Electro-Hydraulic Power Assisted Steering)	Not available	?
FI C. (Forward Looking Camera)	Not available	?

- Then open the 'Functions' section, click 'Regen Statistics', and press the 'Run' button.

The screenshot shows the 'ECM (Engine Control Module)' section of the diagnostic tool. The 'Functions' tab is highlighted with a red box and a red '2'. The 'Regen Statistics' option is highlighted with a red box and a red '3'. The 'Run' button is highlighted with a red box and a red '4'.

- The engine must be running and the parking brake engaged in order to view the regeneration statistics.

The screenshot shows the 'Function - Regen Statistics' screen. The 'Next' button is highlighted with a red box.

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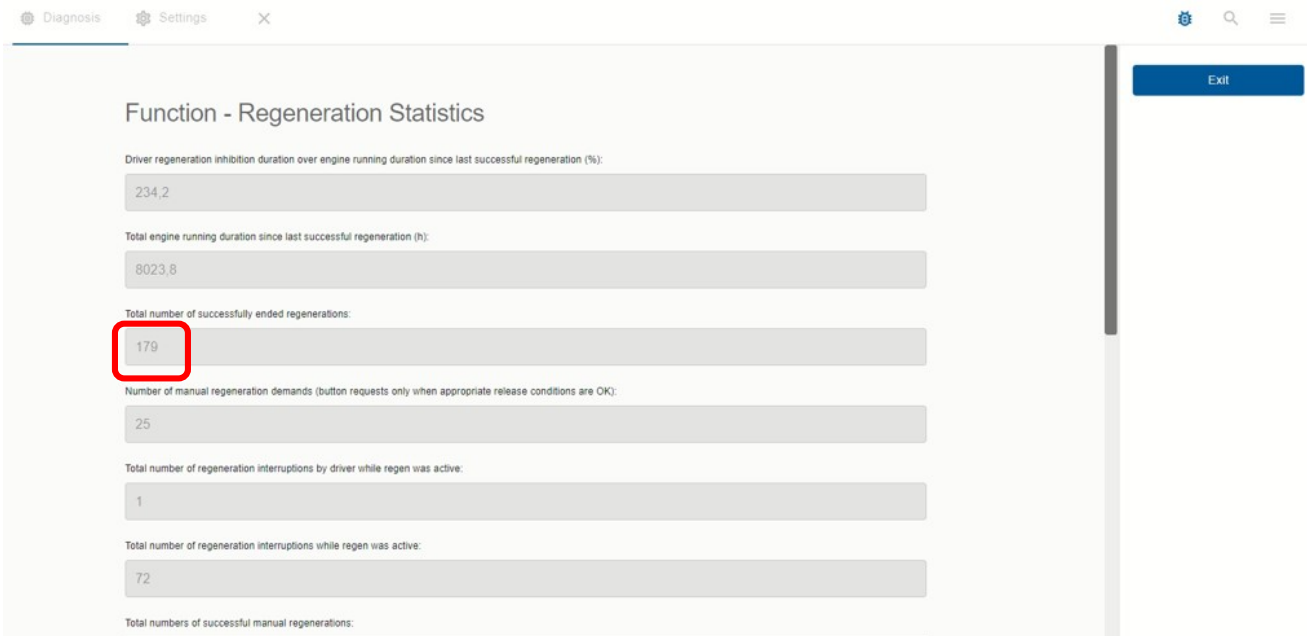
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- Function regeneration statistics must be below page.



4. Urea Quality Statistics Check

- Please select the ECM Module for viewing the Urea Quality Statistics and then open the 'Functions' section, click 'Regen Statistics', and press the "Run" button.

ECUs

System ↑	Status	DTCs
✕ *FSA (Field Service Action)	Not available	?
✕ AMT (Transmission Control Unit)	Not available	?
✕ BCM (Body Control Module)	Not available	?
✕ Brake System	Not available	?
✕ DTCCO (Digital Tachograph)	Not available	?
✕ ECAS (Electronically Controlled Air Suspension)	Not available	?
▲ ECM (Engine Control Module)	Available	
✕ EHPAS (Electro-Hydraulic Power Assisted Steering)	Not available	?
✕ FIC (Forward Looking Camera)	Not available	?

1

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ECM (Engine Control Module)

DTCS ECU ID Measurements **Functions** 2

- Oil Maintenance
- Oil Quality
- Read/Write Configuration Parameters
- Read/Write Engine Code
- Read/Write Injector Code
- Read/Write PTO Revolution
- Read/Write Vehicle Identification Number
- Regen Statistics
- Reset
- Service Test
- Template
- Turbo Learning
- Urea Quality Statistics** 3

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- Function urea quality statistics must be below page.



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5. Urea Quality AFTT Screen Inspection

- Please select the ECM Module for viewing the AFTT screen and then open the 'Functions' section, click 'Template', and press the "Run" button.

Diagnosis Settings

ECUs

System ↑	Status	DTCs
*FSA (Field Service Action)	Not available	?
AMT (Transmission Control Unit)	Not available	?
BCM (Body Control Module)	Not available	?
Brake System	Not available	?
DTCO (Digital Tachograph)	Not available	?
ECAS (Electronically Controlled Air Suspension)	Not available	?
ECM (Engine Control Module)	Available	
EHPAS (Electro-Hydraulic Power Assisted Steering)	Not available	?
FI C (Forward Looking Camera)	Not available	?

Rescan
Show all DTCs
Delete all DTCs
Print DTC report

1

Diagnosis

ECM (Engine Control Module)

DTCs ECU ID Measurements **Functions**

- Oil Maintenance
- Oil Quality
- Read/Write Configuration Parameters
- Read/Write Engine Code
- Read/Write Injector Code
- Read/Write PTO Revolution
- Read/Write Vehicle Identification Number
- Regen Statistics
- Reset
- Service Test
- Template**
- Turbo Learning
- Urea Quality Statistics

Back
Run

2

3

4

- Within the Template section, select and open the Exhaust Emission (AFTT) screen.

Diagnosis

Function - Template

Please choose one of the template functions.

- Air Path Template
- Exhaust Emission (AFTT)**
- Driver Interactions Template
- Engine Template
- Exit

5

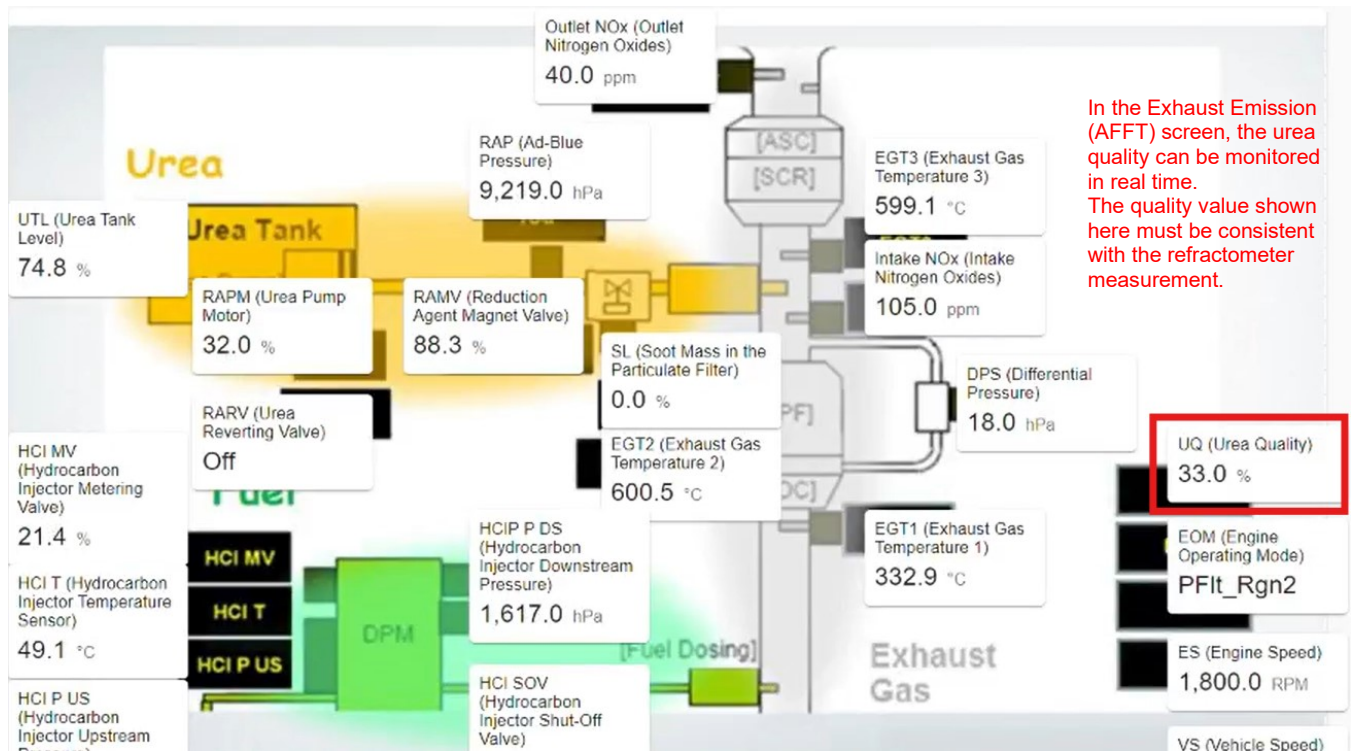
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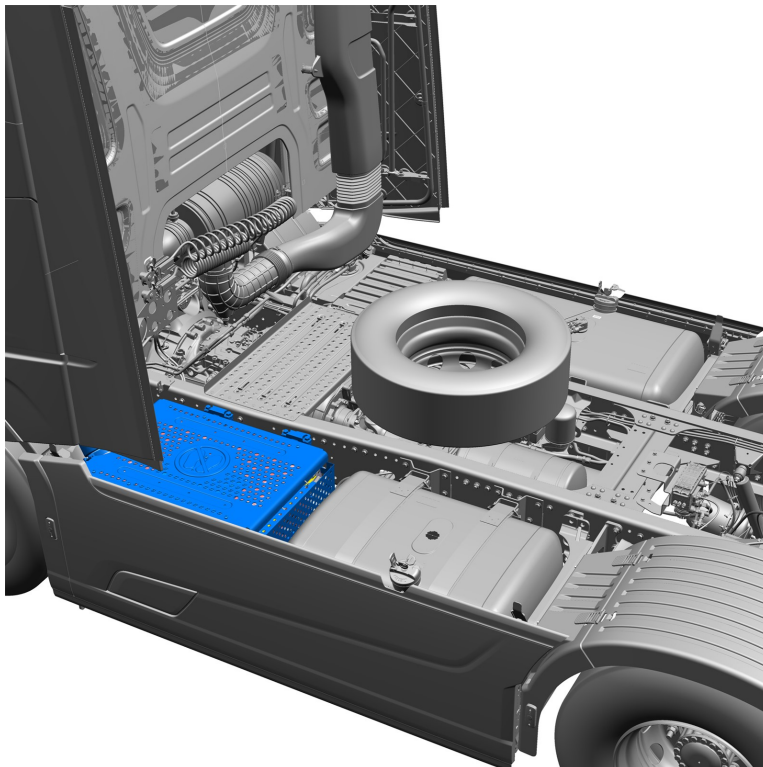
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6. Exhaust Muffler Replacement Procedure

- Remove the left side skirt from the vehicle.



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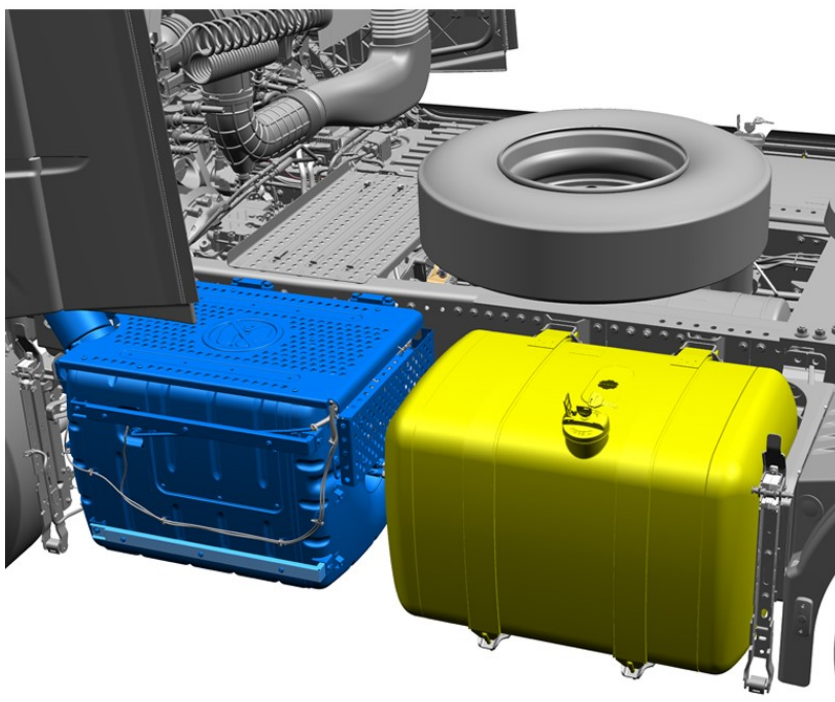
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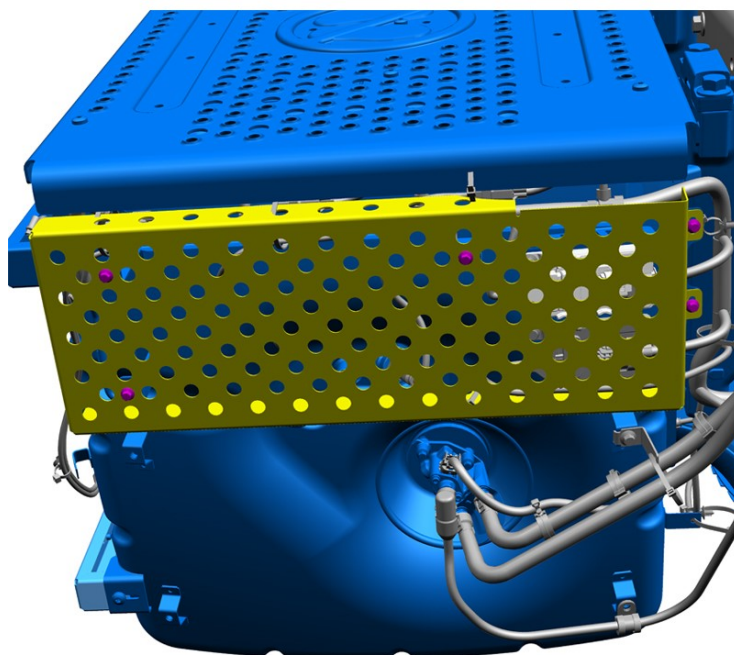
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- If equipped, remove the auxiliary fuel tank from the vehicle.



- Remove the sensor protection bracket by loosening the 5 × M8 bolts.



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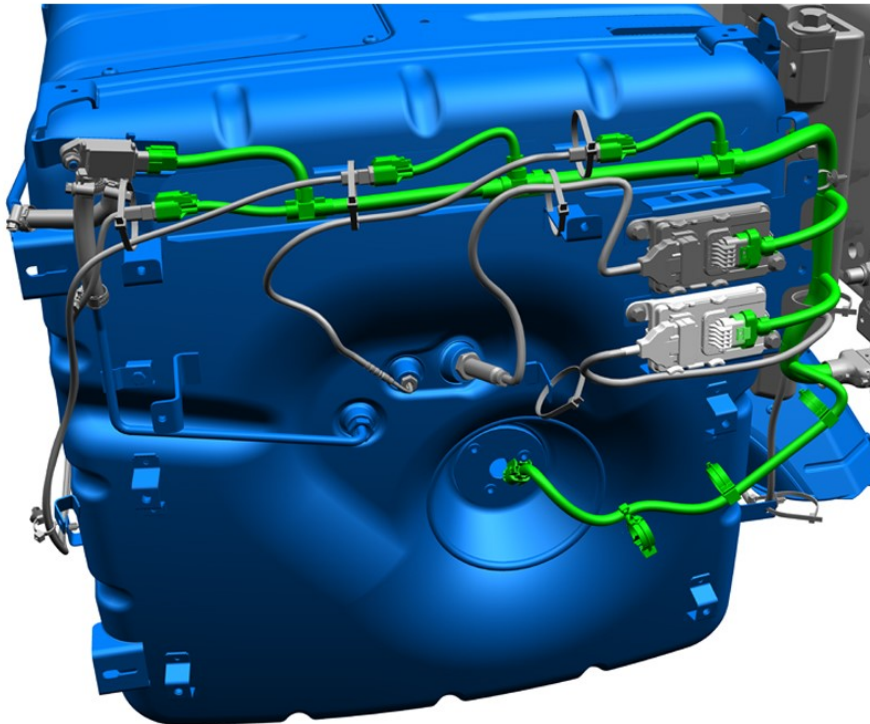
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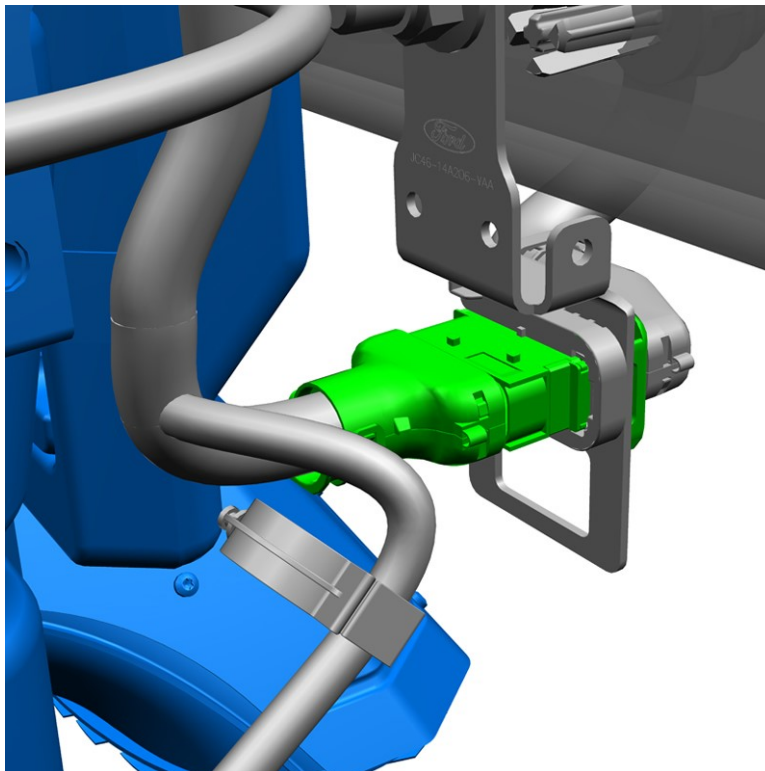
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- Disconnect the cables on the exhaust muffler.



- Disconnect the cables underneath the exhaust muffler.



SERVICE PROCEDURE

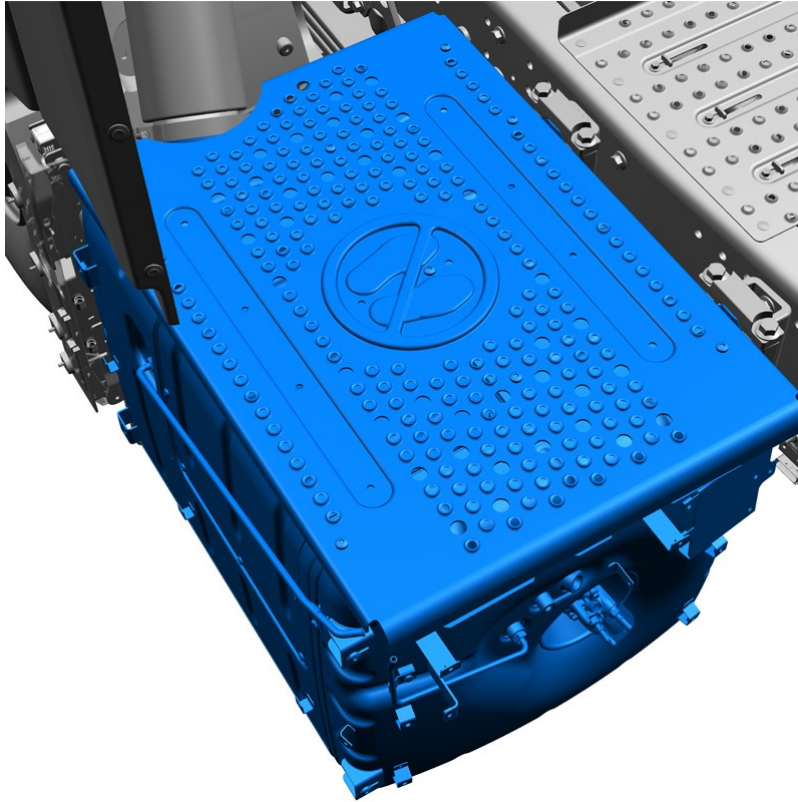
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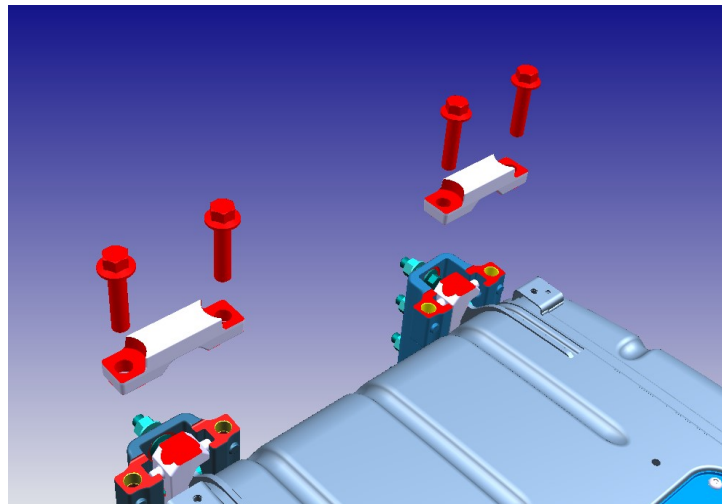
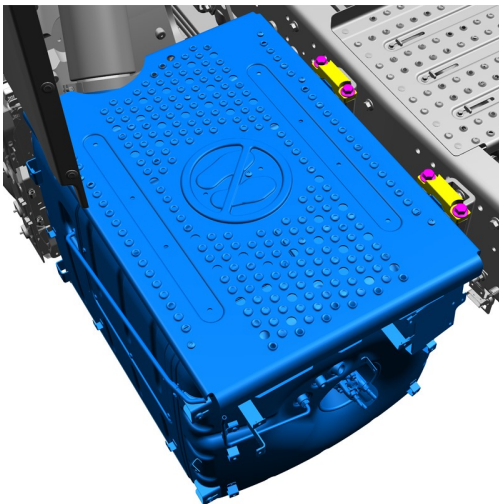
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- Support the muffler from underneath using appropriate lifting equipment.



- Remove the 4 × M16 mounting bolts on the muffler chassis brackets.



SERVICE PROCEDURE

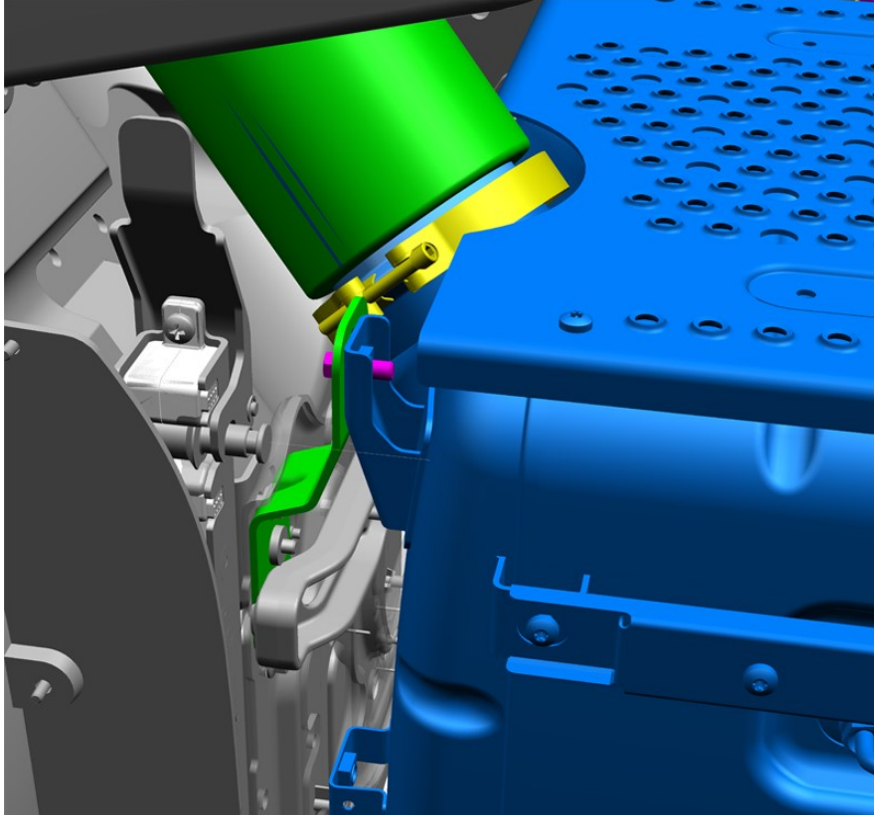
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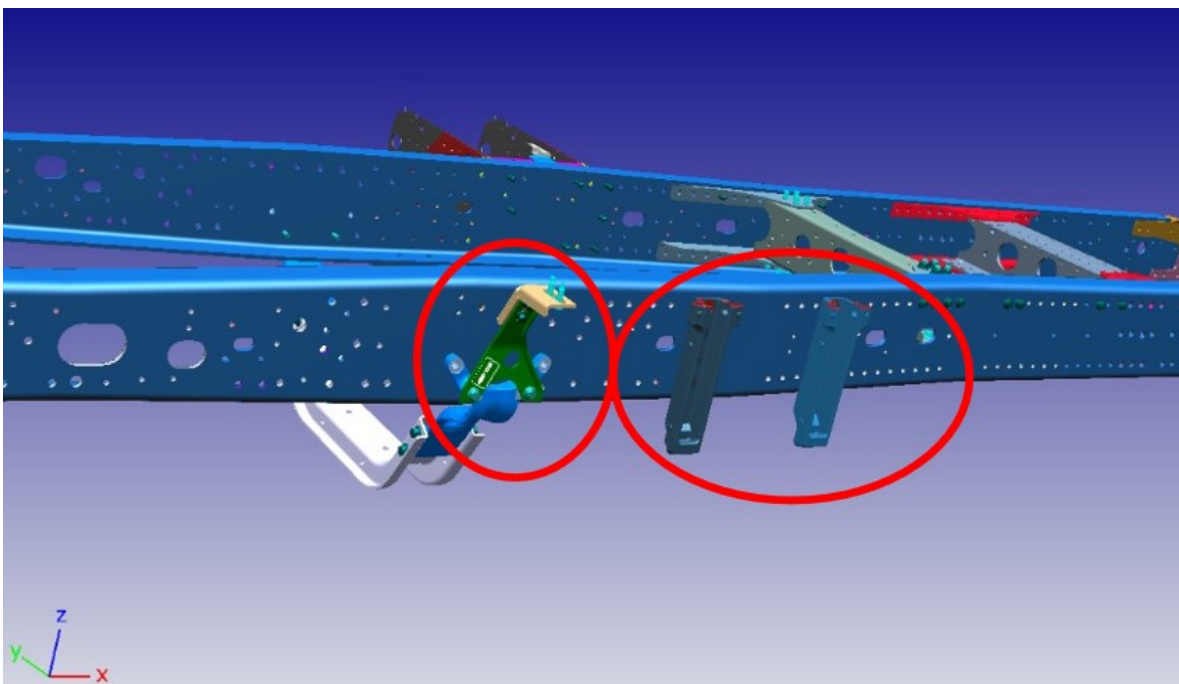
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- Loosen the V-clamp on the exhaust pipe connection using a H6 Allen key. If applicable, loosen the M10 bolt of the connection bracket attached to the fender.



- Secure the muffler using a forklift or suitable lifting device, lift it slowly, and remove it from the vehicle. The other brackets may remain on the vehicle.



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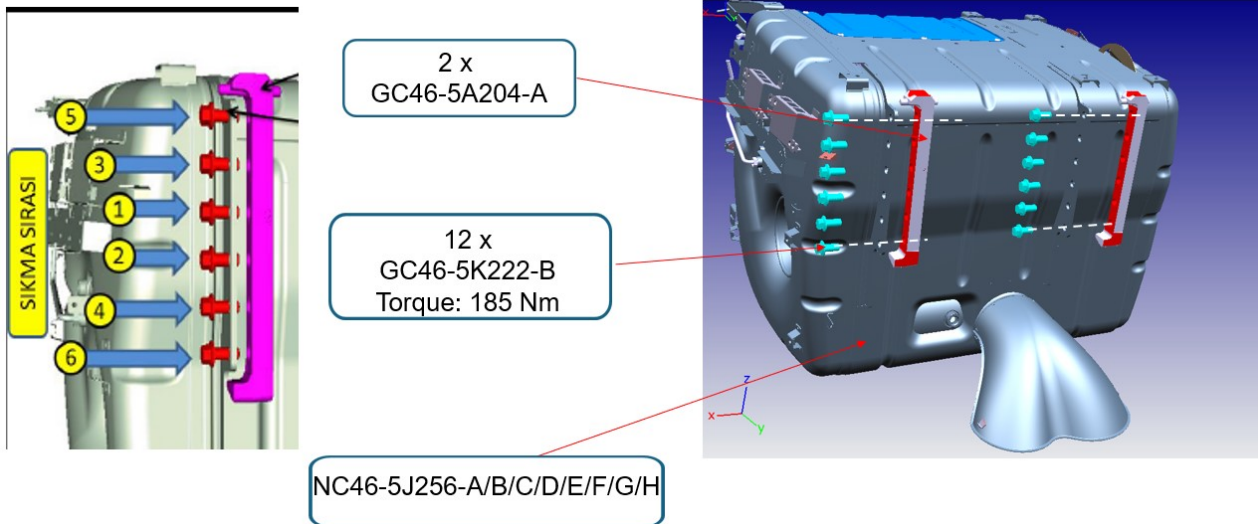
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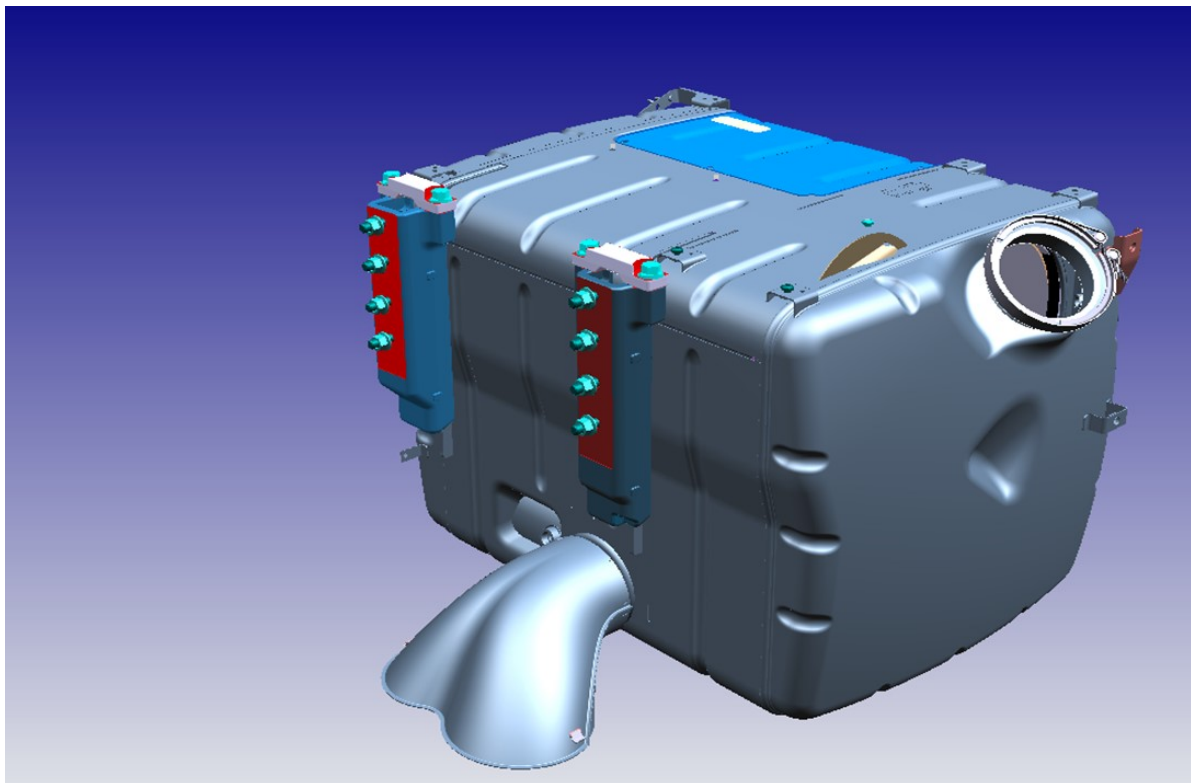
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- Remove all heat shields from the removed muffler and reinstall them onto the new muffler using existing bolts. They are re-usable. After that, complete the rear hanger bracket mounting of the entire muffler assembly with the existing bolts.



- Use the lifting machine to position the muffler back into its slot on the mounting brackets attached to the chassis.



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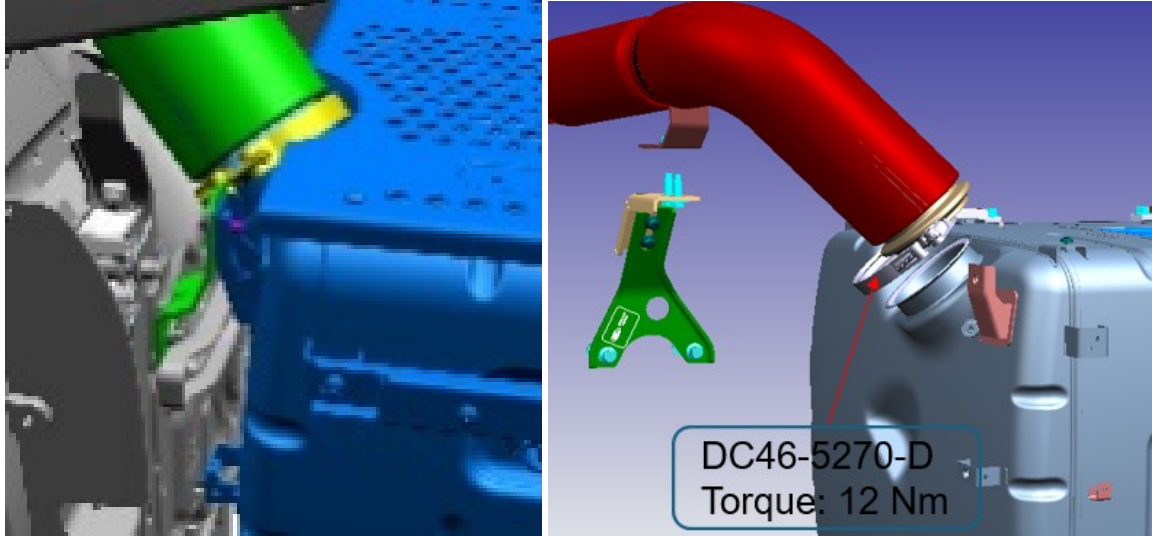
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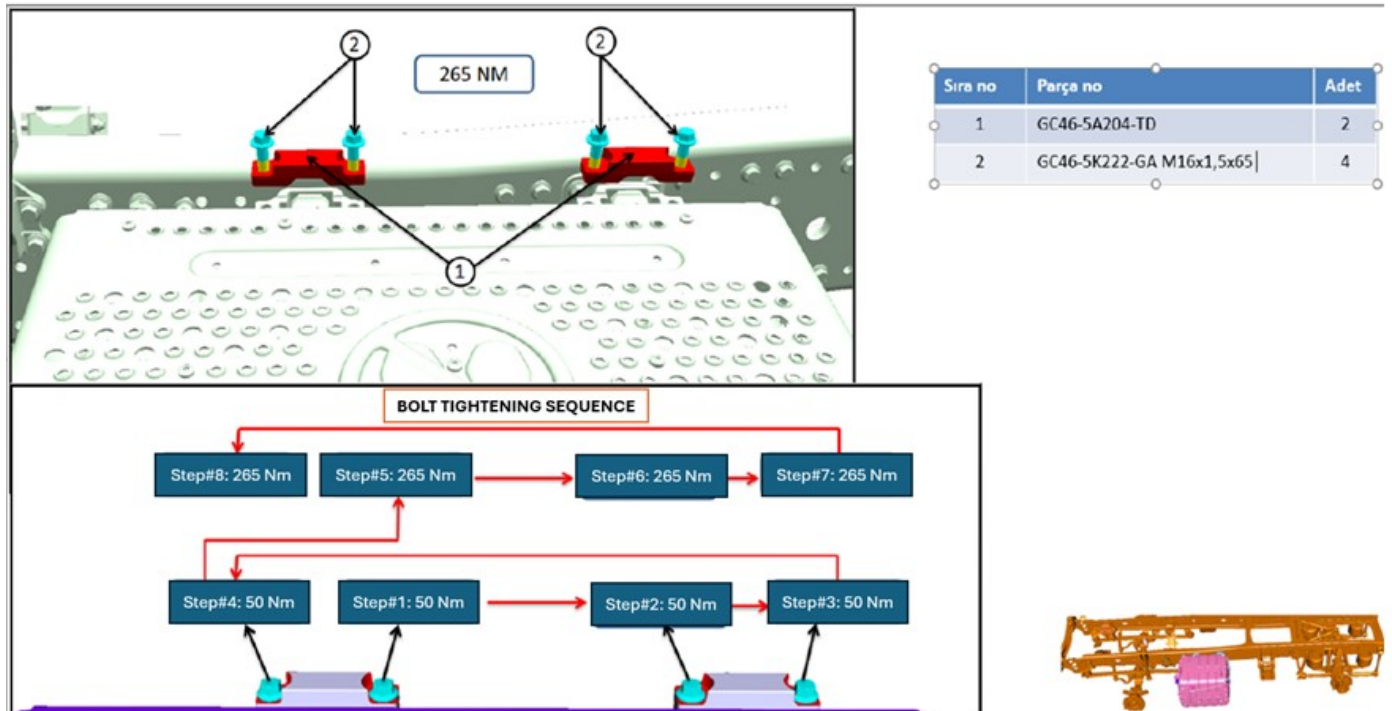
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- Renew the V-clamp at the exhaust pipe connection and torque it to 12 Nm using an H6 Allen key. If applicable, torque the M10 bolt of the bracket connected to the fender to 63 Nm.



- Torque the upper muffler mounting bolts with new bolts, following the sequence shown below.



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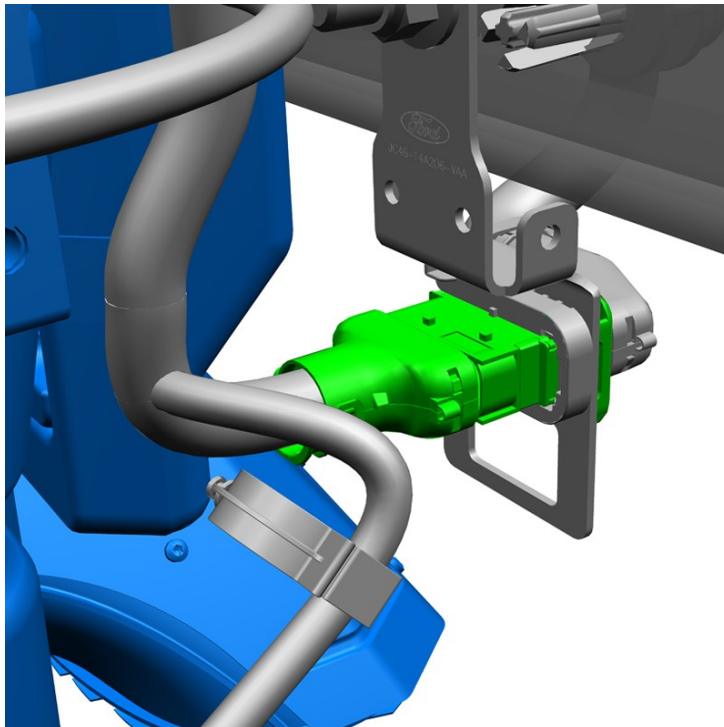
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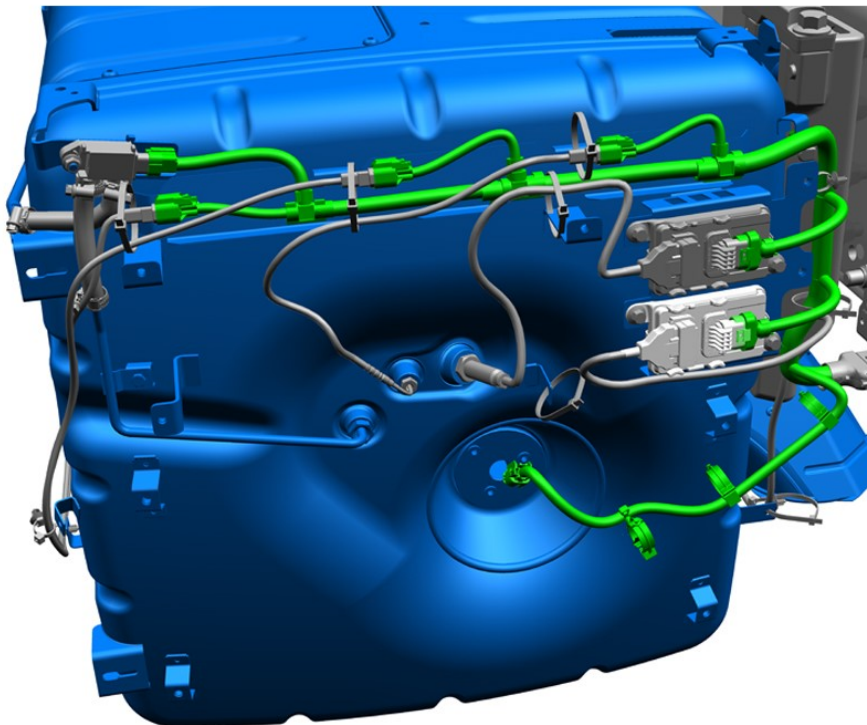
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- Reconnect the cable connections located at the lower part of the muffler.



- Reconnect the cable connections on the right side of the muffler.



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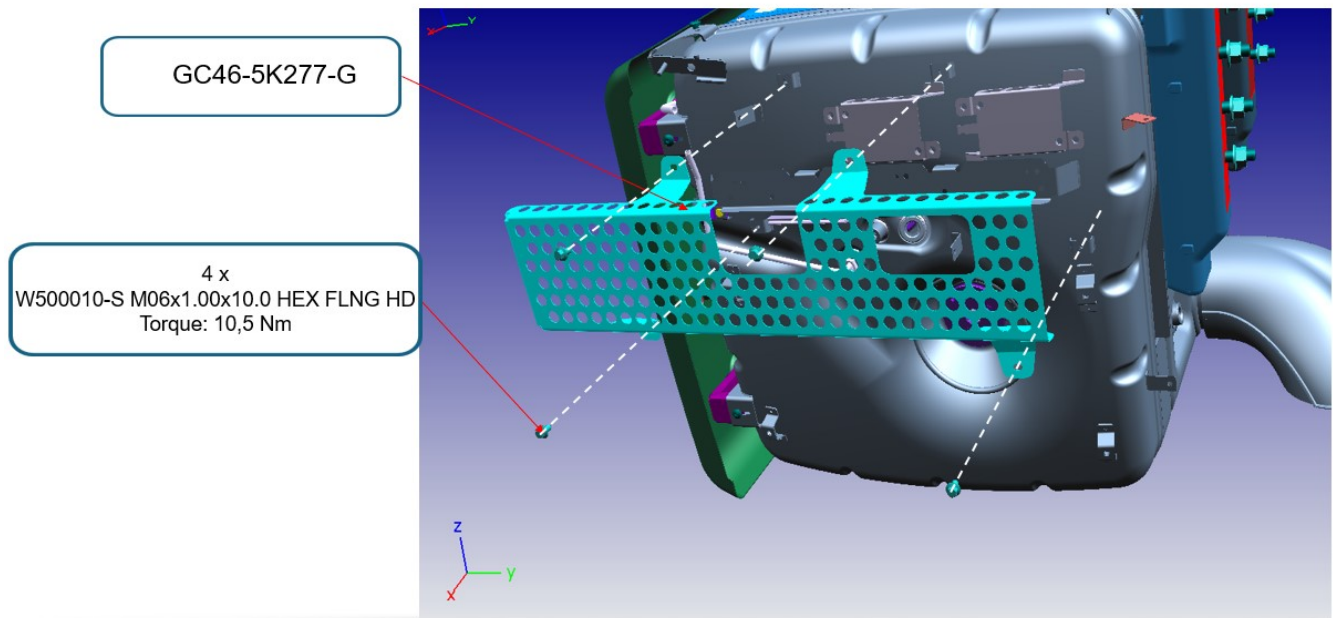
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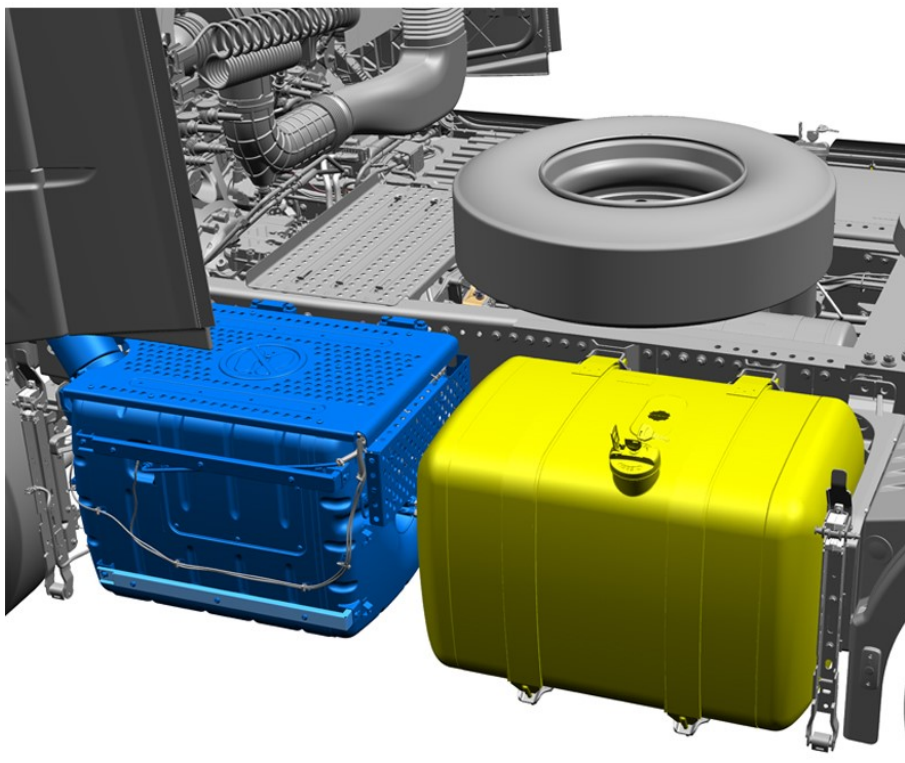
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- Complete the installation of the side protective heat shield.



- If equipped, complete the reinstallation of the auxiliary fuel tank to the vehicle.



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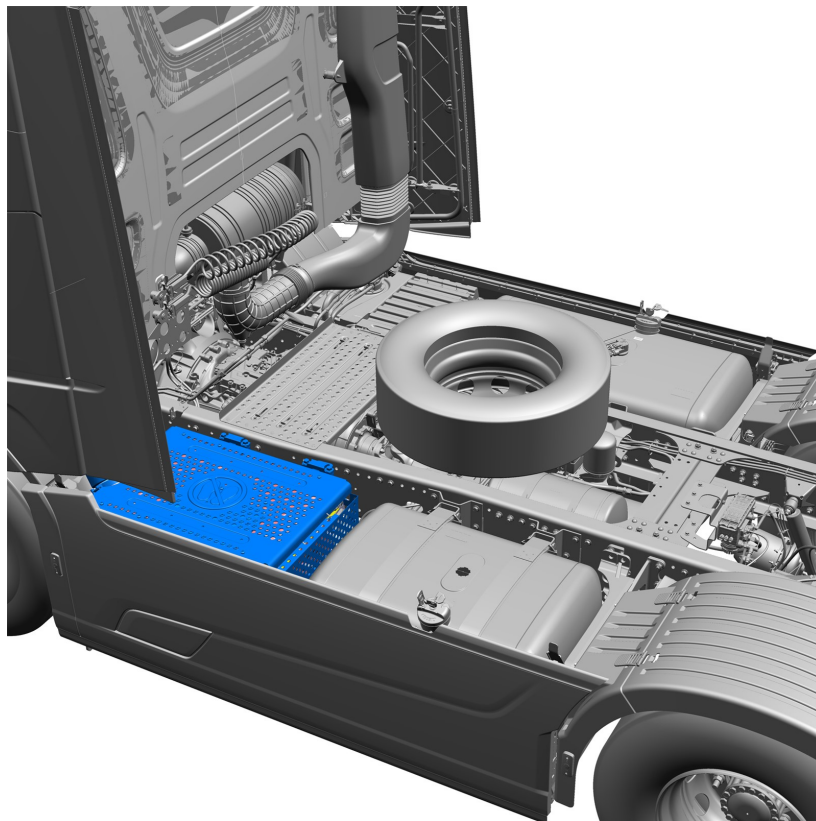
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- Complete the reinstallation of the left side skirt onto the vehicle.



Best Regards,
Ford Trucks Service Engineering