Service Campaign S3056 October 2025

VOLVO Service Campaign

VNRe Cabling and Cable Support Improvements

Service Category Service

Section Function Group 324

Technician Skill Level A **Market North America Applicability**

VOLVO

Years	Models
2021-2022	VNRE

Introduction

Volvo Trucks has determined that certain VNRe Model Vehicle have power cables and supporting brackets that do not adhere to Volvo's quality standards. Improved components have been developed. Please follow the installation instructions within this document to ensure the identified vehicles meet Volvo's quality standards.

Production Change Information

This bulletin applies to vehicles built within the specified production changes below.

Brand	Engine	Emission Level	Starting Build Date	Ending Build Date
Volvo	BEV	EM-ZE	31-March-2020	3-Decmeber-2021

Warranty Information

This repair is covered by an authorized Service Program. Reimbursement is obtained through the normal claim handling process.		
Claim Type (used only when uploading from the Dealer Bus. Sys.)		**B**
Main Labor Code	**Description**	**Hours**
3100-09-01-04	Traction Voltage, Decommissioning	0.8
3100-09-01-03	Traction Voltage, Commissioning	1.0
1720-16-09-01	Campaign General 0.1x12	1.2
3718-03-02-02	Power Cable, EDM to EM replacement 3.0x2	6.0
Causal Part	**23640210**	
SCC Authorization Code	**S3056**	
Expiration Date	**July 29, 2026**	

VNRe Cabling and Cable Support Improvements

Parts Information

Before ordering parts, please inspect to see if the EDM cable support brackets are installed. Only order if not installed.

Part Numbers	Part Names	Quantity
23977085	Power Cable, EMD2-Electric Motor 2	1
23977086	Power Cable, EMD1-Electric Motor 1	1
24225585	Power Cable TVJB1 to DCDC2	1
24225586	Power Cable TVJB1 to DCDC1	1
24225588	Power Cable HVJB1to TVMU	1
980464	Cable Tie	10
984726	Screw	5
	If Needed	
24456326	Bracket, EMD Cable Clipping (Driver's)	1
24456328	Bracket, EMD Cable Clipping (Passenger's)	1

Air Compressor Cable Information

Please inspect the air compressor drive motor before order the cable below, if the truck is fitted with an air-cooled air compressor drive motor the cable is NOT needed. If it is fitted with a water-cooled air compressor drive motor, you will need to order and replace the cable.

Part Numbers	Part Names	Quantity
24226282	Power Cable TVJB1 to Compressor	1

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DANGER

Risk of electrical discharge.

Damaged traction voltage cables can cause electric shocks and arcs resulting in serious burns or death.

- Check that the traction voltage cables are in good condition before any operation is carried out.
- Report to the responsible person if any damaged traction voltage cables are found.

DANGER

Risk of electrical discharge.

Incorrect handling of the traction voltage system (>60 V DC) can cause electric shocks and arcs resulting in serious burns or death.

- Decommissioning and commissioning must only be carried out by personnel with adequate certification according to **Safety regulations, electric vehicles**, in function group 30.
- The steps described in the instruction are minimum requirements.
- Always comply with the local legislation or regulations with stricter safety requirements, including but not limited to, measuring tools and personal protective equipment to be used.

DANGER

Risk of electrical discharge.

Defective gloves can result in electric shocks resulting in serious burns or death.

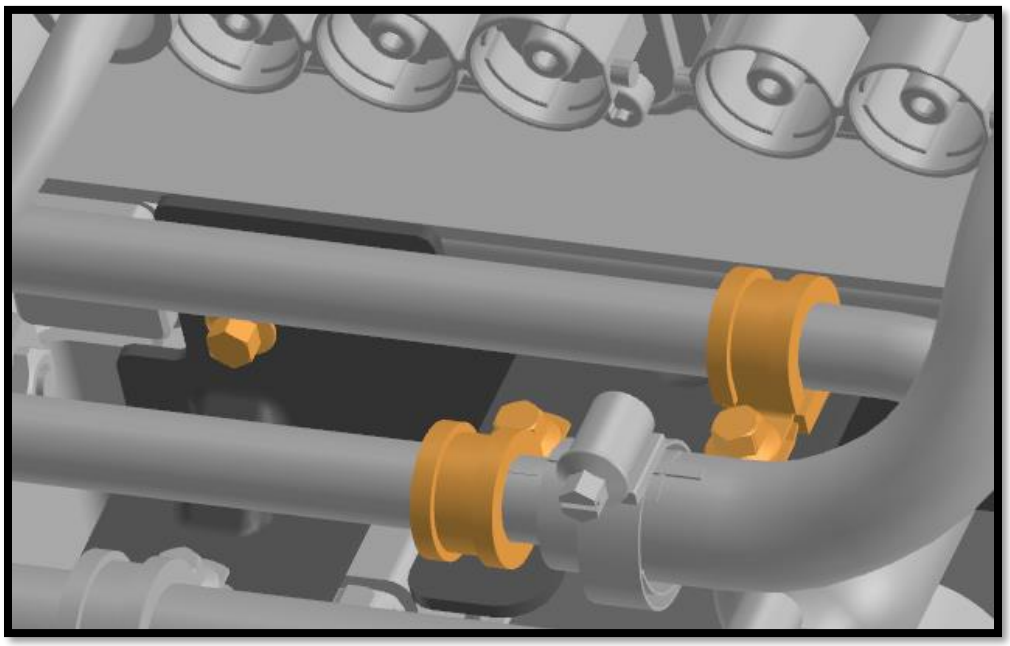
- Always use the gloves described in the instruction.
- Check gloves for leakage and damage before use, even if they are new.
- Ensure that gloves are completely dry before use.

VNRe Cabling and Cable Support Improvements

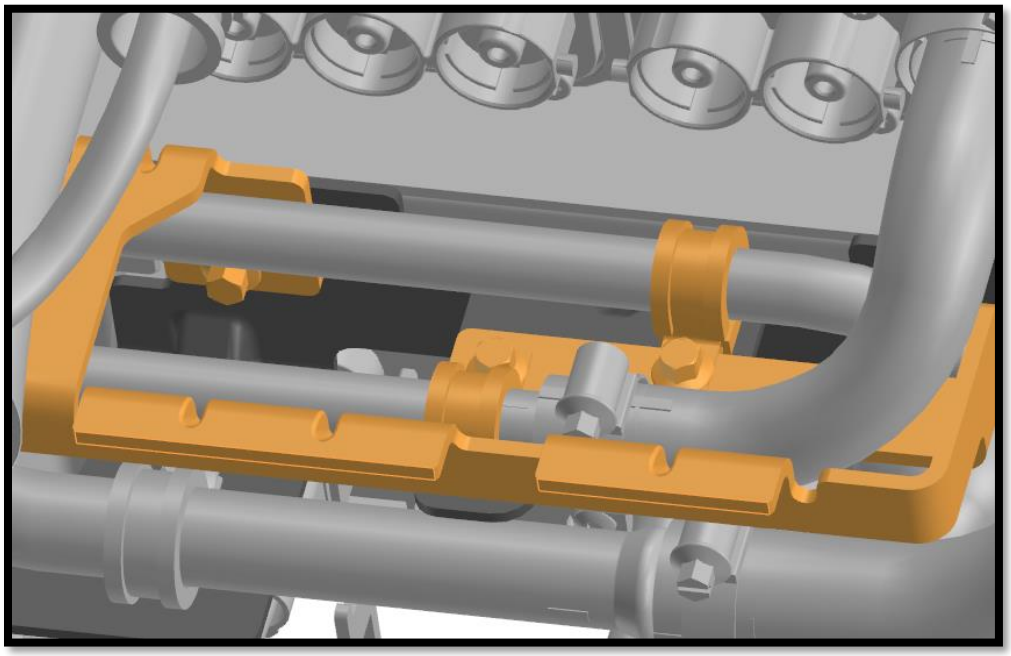
Repair Instructions

1. Follow steps 1 through 20 in Impact operation **3718-03-02-02 "Power Cable, Electric Motor Drive (EMD) to Electric Motor (EM), Replacement"** to decommission the traction voltage and remove the EMD to EM cables.

2. On the driver's side of the EMD, remove the screws pictured. Leave p-clamps installed.

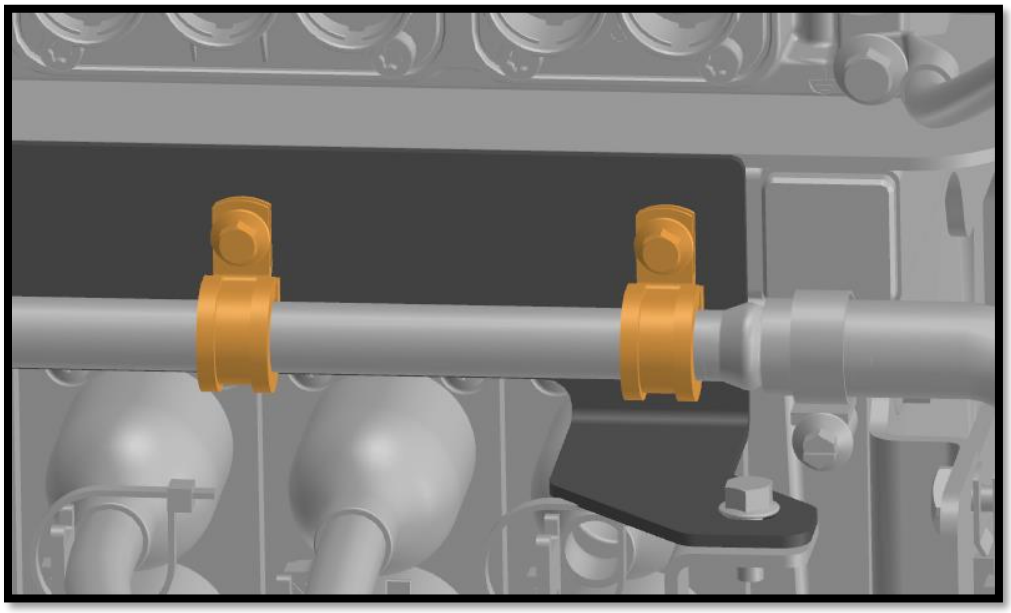


3. Install the EMD Cable support bracket **P/N 24456326** using 3 screws **P/N 984726**.

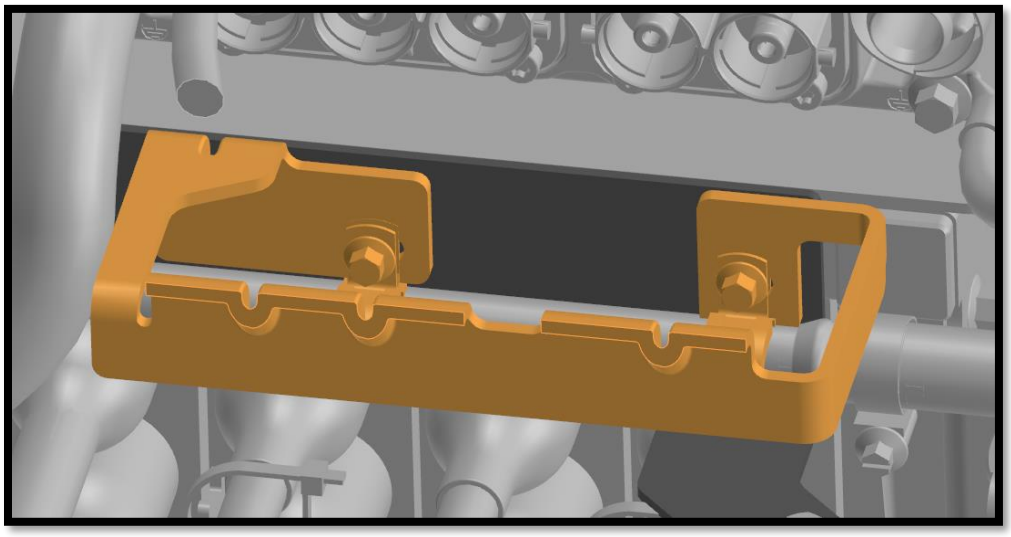


VNRe Cabling and Cable Support Improvements

4. On the passenger's side on the EMD, remove the screws pictured.



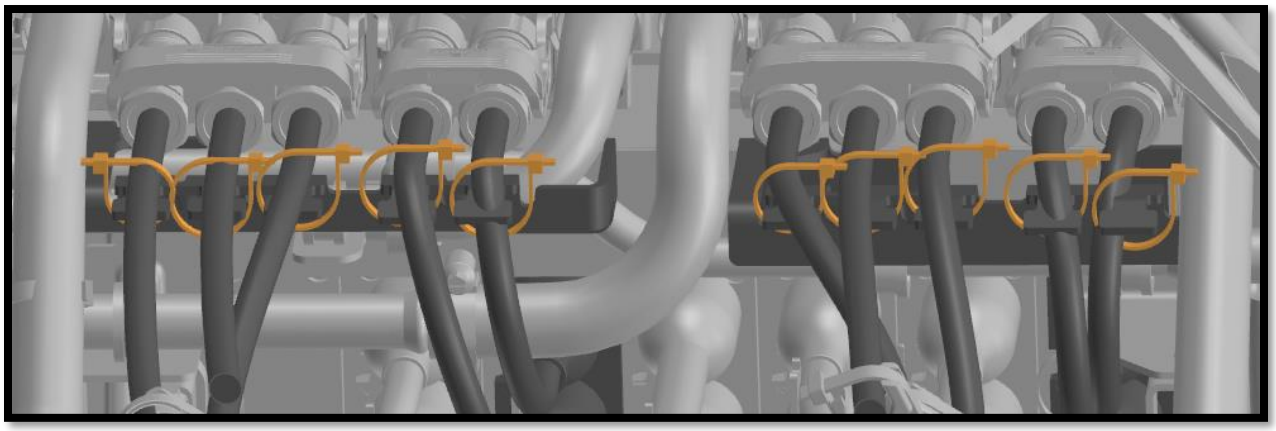
5. Install EMD cable support bracket **P/N 24456328** using 2 screws **P/N 984726.**



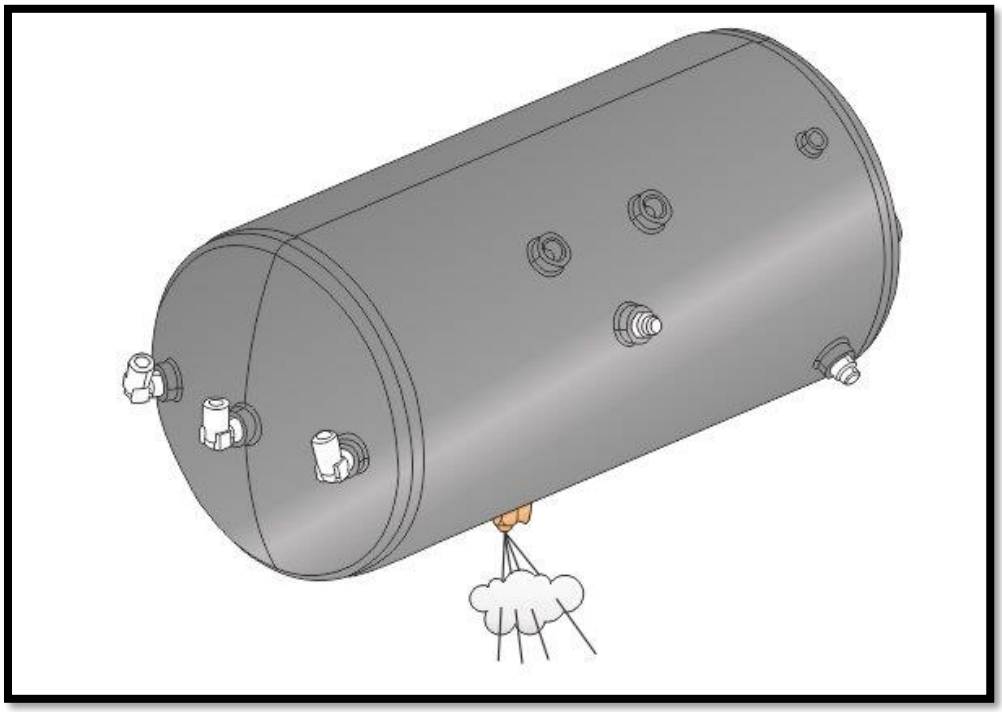
6. Follow steps 21 through 45 in Impact operation **3718-03-02-02 "Power Cable, Electric Motor Drive (EMD) to Electric Motor (EM), Replacement"** to install the new EMD to EM cables (Driver's side cable **P/N 23977086**, Passenger's side **P/N 23977085)**.

VNRe Cabling and Cable Support Improvements

7. Install the cable ties. **P/N 980464 x 10.**

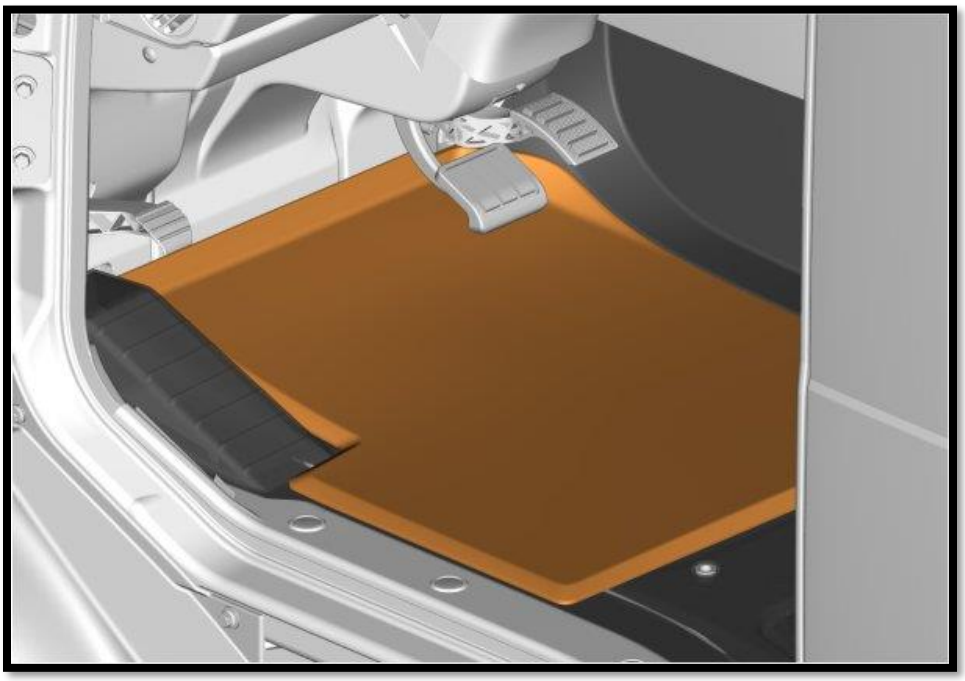


8. Drain the compressed air tank.

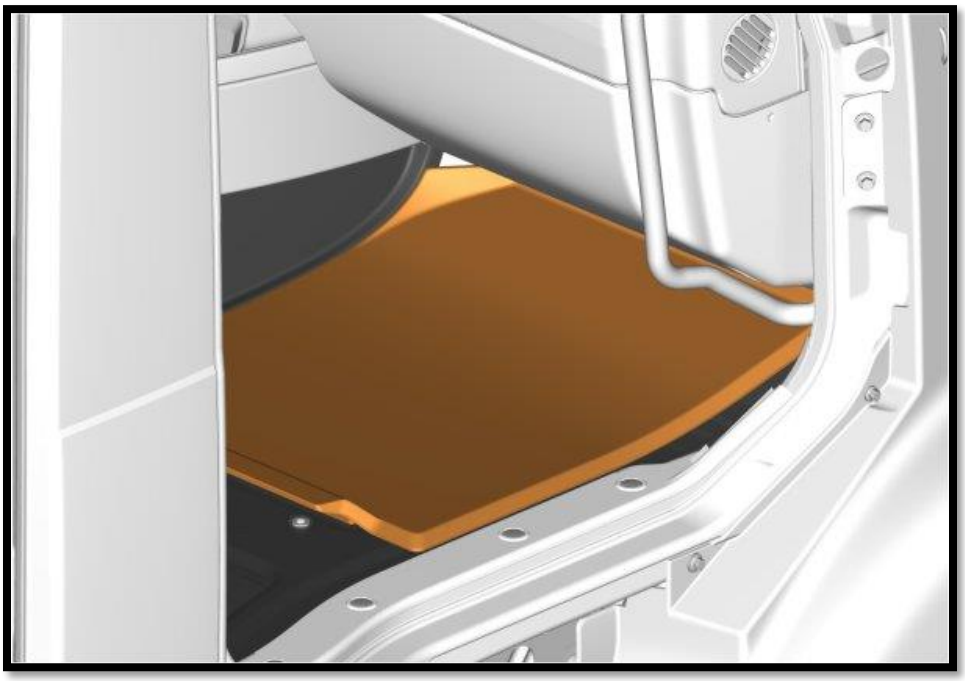


VNRe Cabling and Cable Support Improvements

9. Remove driver floor mat.



10. Remove passenger the floor mat.

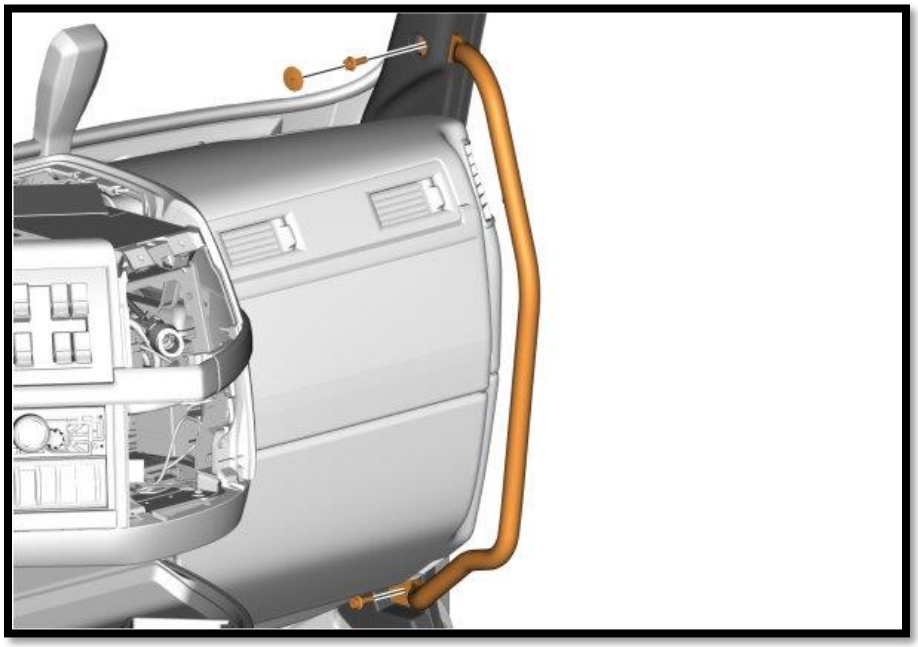


VNRe Cabling and Cable Support Improvements

11. Remove the screw cover.

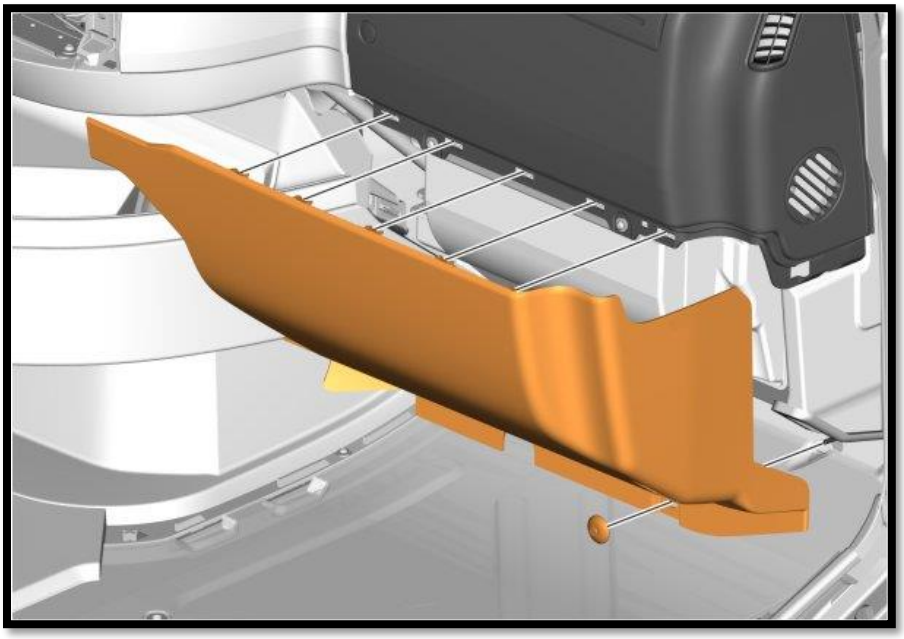
12. Remove the screws.

13. Remove the handle.



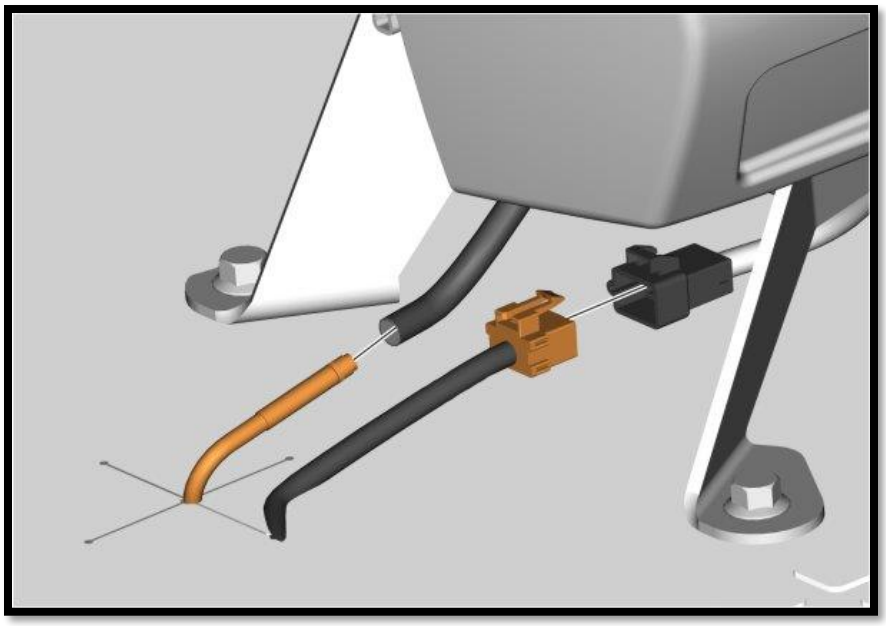
14. Remove the retainer.

15. Remove the passenger kick panel.



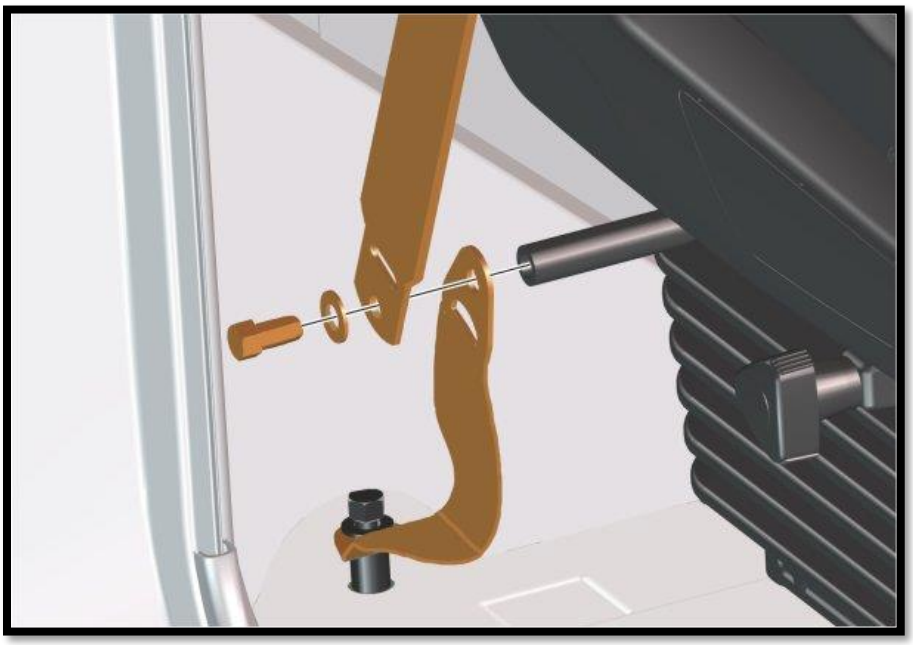
VNRe Cabling and Cable Support Improvements

16. Remove air tube and disconnect the connector from the passenger's seat.



17. Remove the screw and washer.

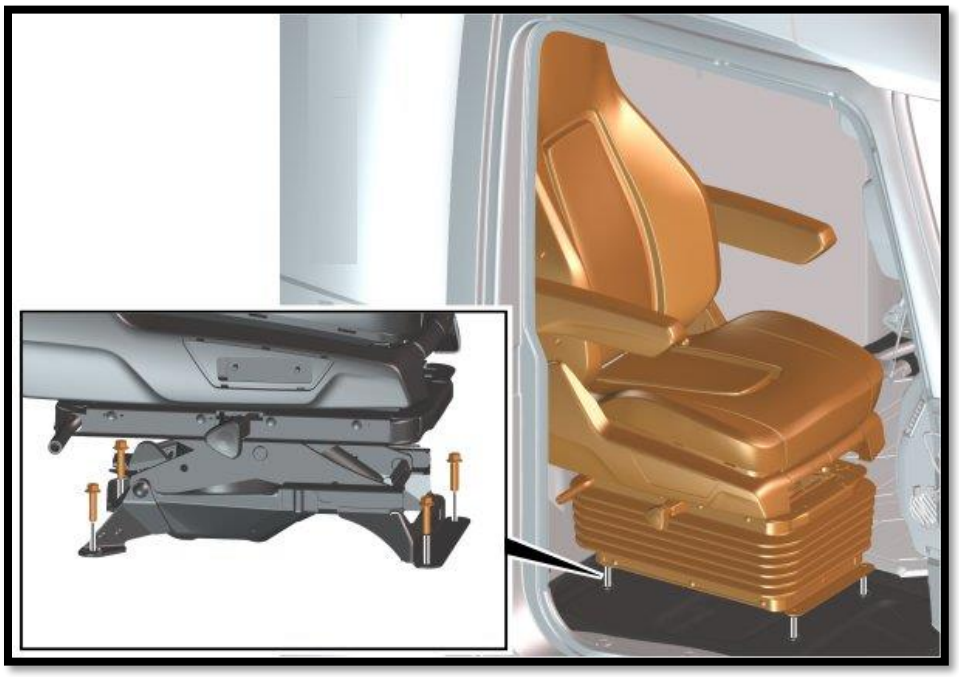
18. Remove seat belt.



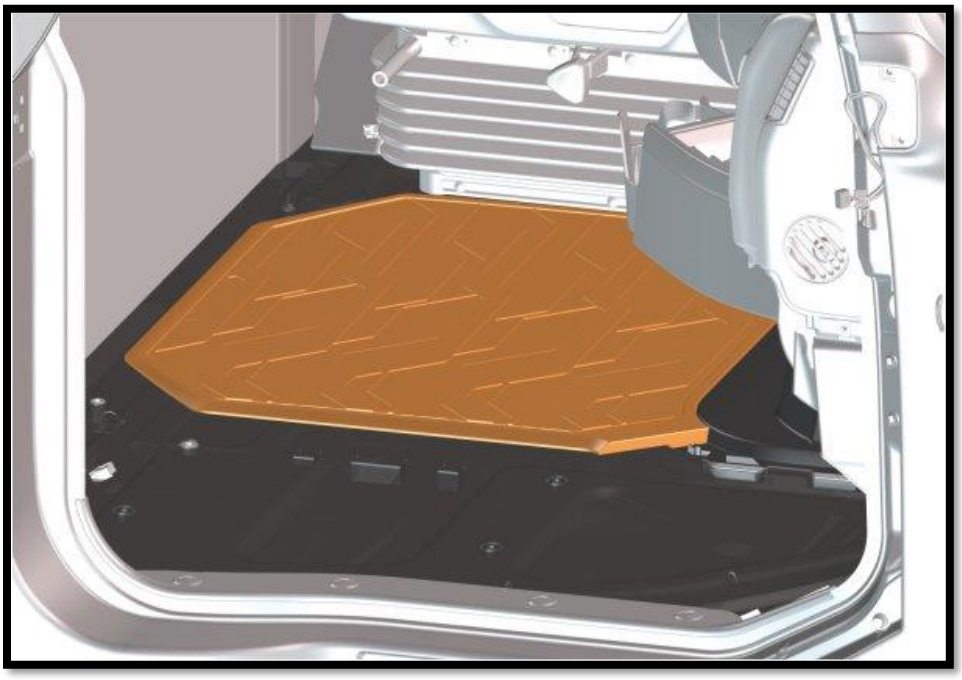
VNRe Cabling and Cable Support Improvements

19. Remove the passenger seat mounting screws.

20. Remove seat from the cab.



21. Remove the floor mat.

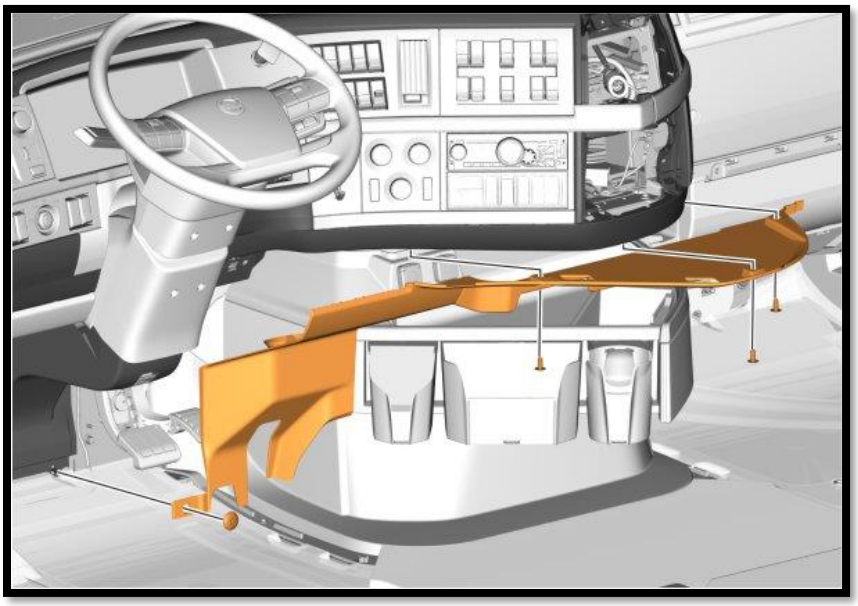


VNRe Cabling and Cable Support Improvements

22. Remove the retainer.

23. Remove the plastic rivets.

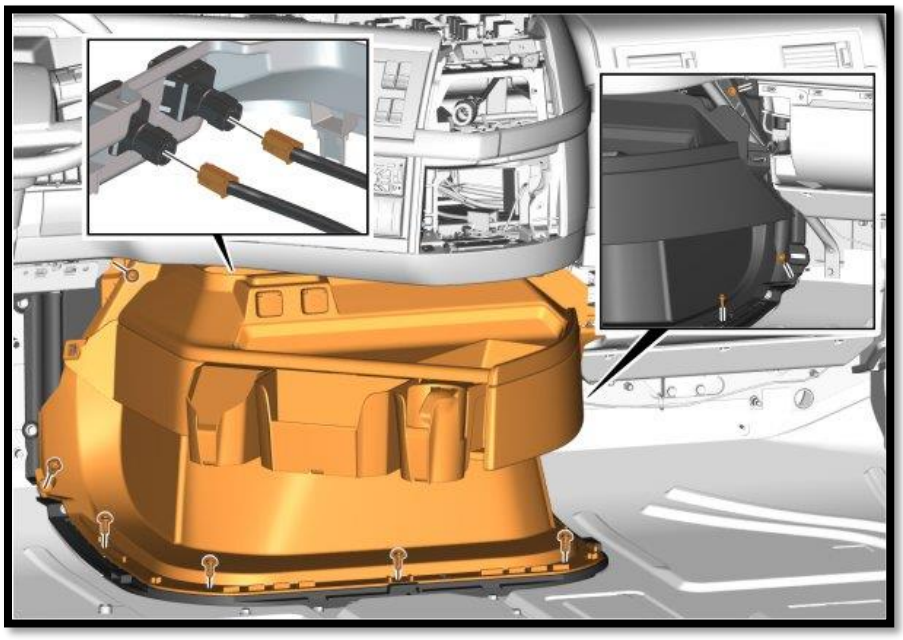
24. Remove the panel.



25. Remove the screws.

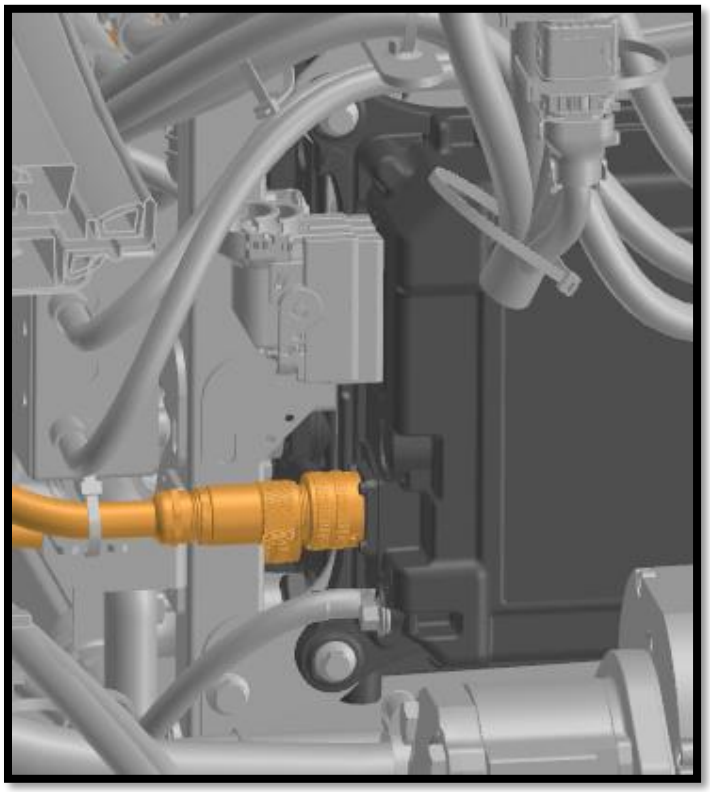
26. Remove the engine cover.

27. Disconnector the connectors.

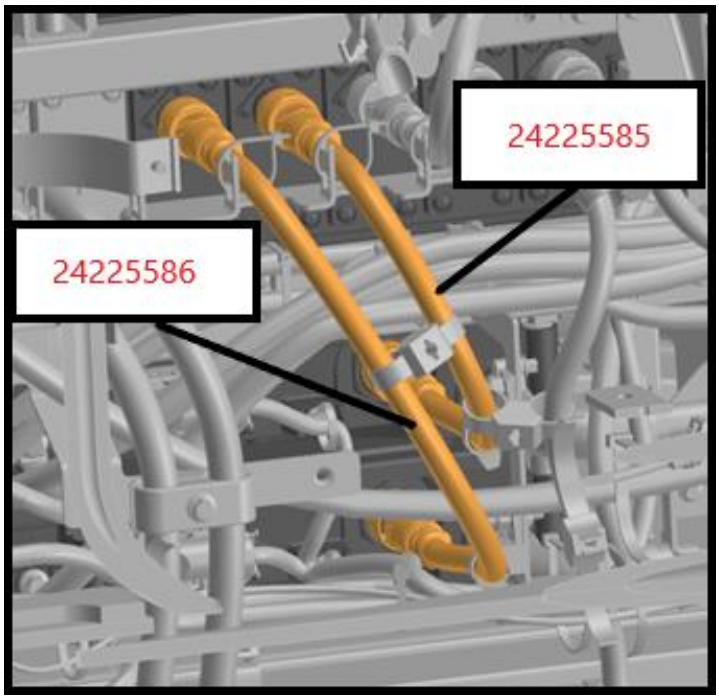


VNRe Cabling and Cable Support Improvements

28. Remove and replace the low current cable to the TVMU with **P/N 24225588**.



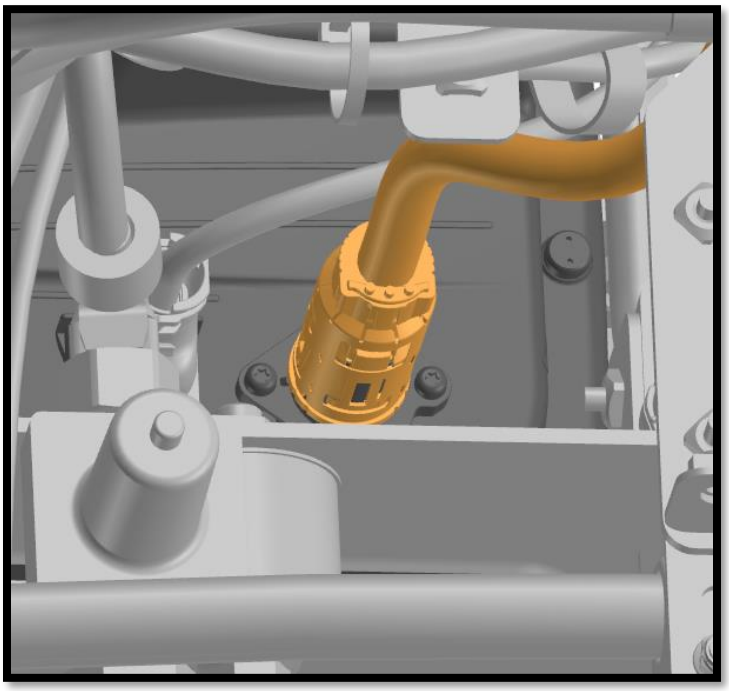
29. Remove and replace the low current cables to both DC/DC converters with the new cables (P/N **24225586** and **24225585)**.



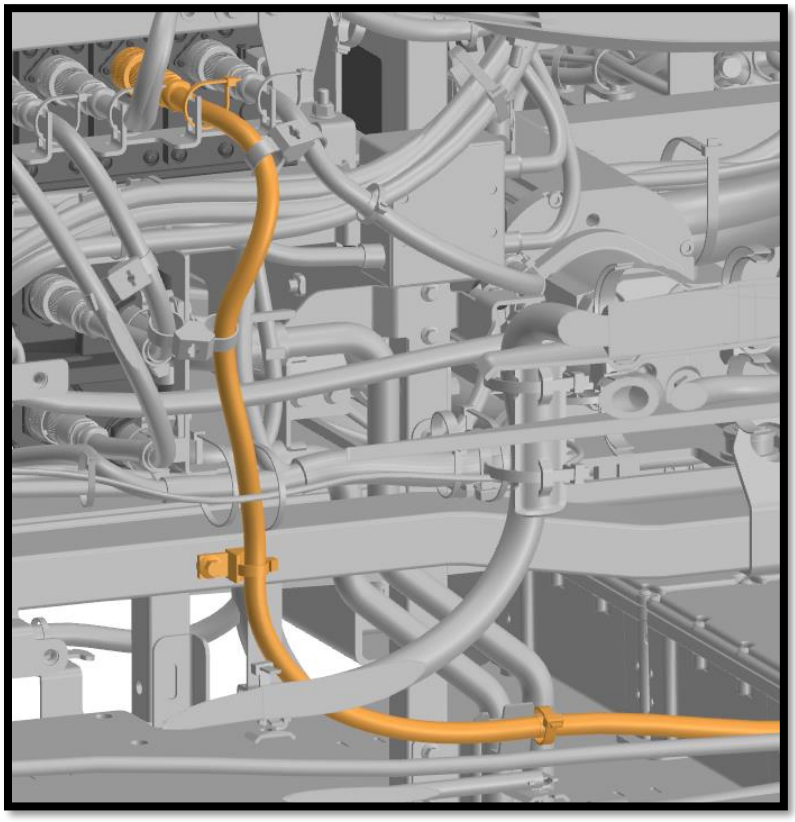
VNRe Cabling and Cable Support Improvements

Important Note
Only replace the air compressor cable if the truck is fitted with a water-cooled compressor

30. Disconnect the high voltage connector to air compressor.

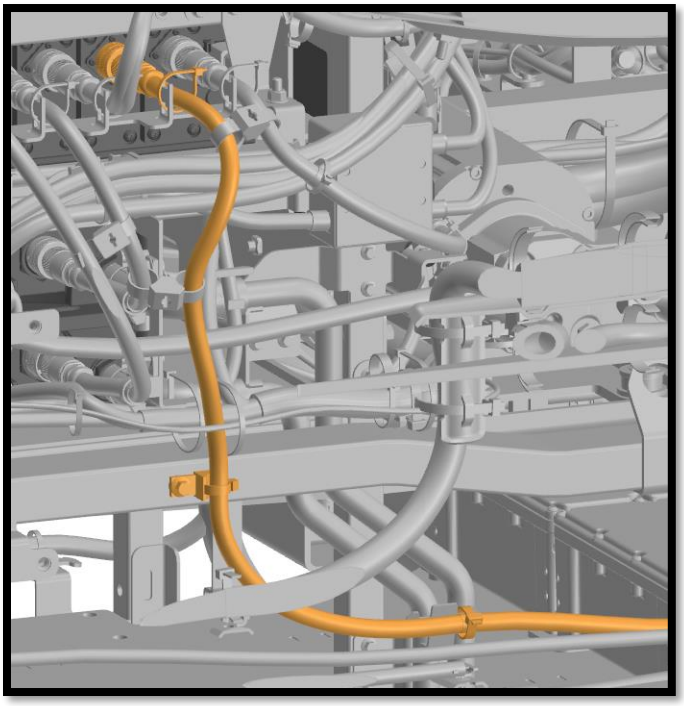


31. Disconnect the connector. Remove and discard the cable.

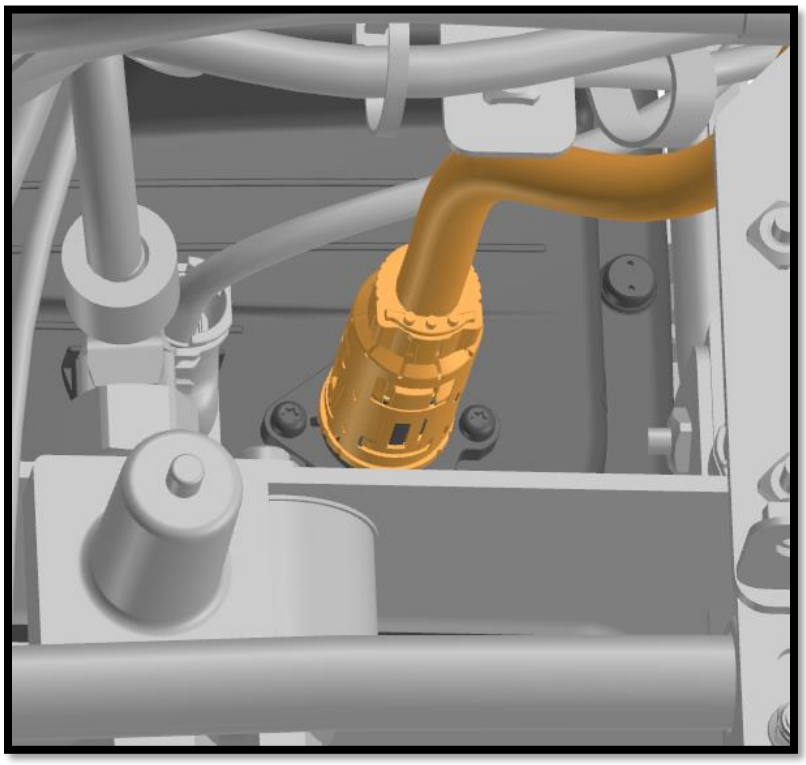


VNRe Cabling and Cable Support Improvements

32. Install the new cable **P/N 24226282**. Route and clip in the same manner as removed cable.



33. Connect the high voltage cable to the air compressor.

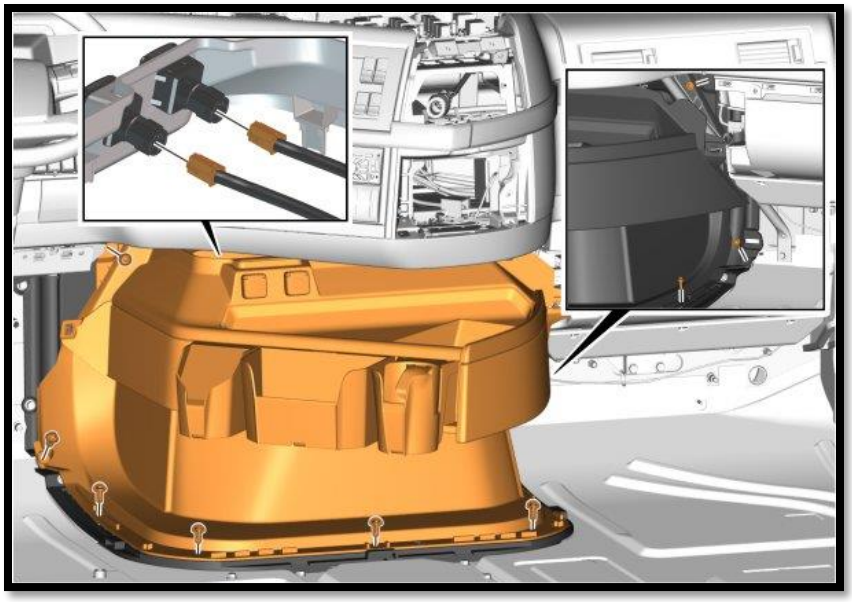


VNRe Cabling and Cable Support Improvements

34. Connect the connectors.

35. Install the engine cover.

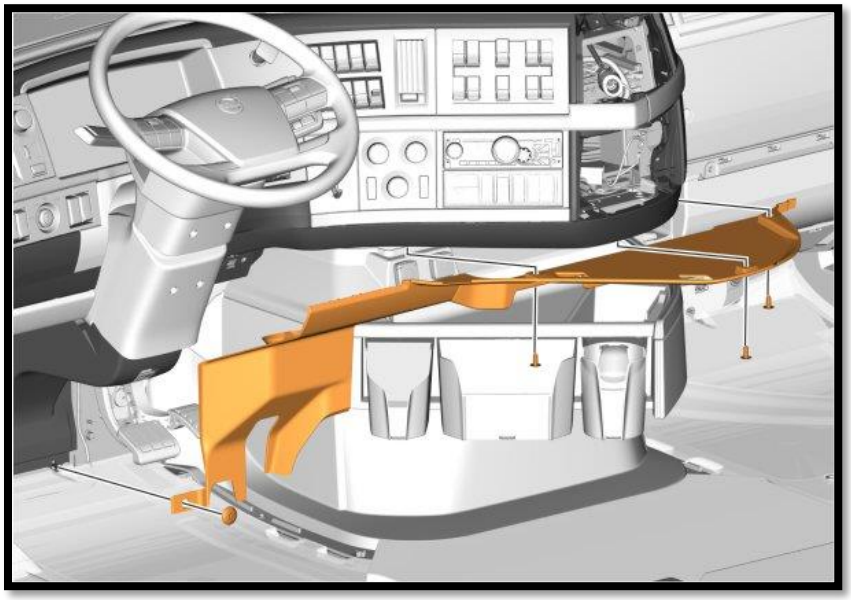
36. Install the screws.



37. Install the panel.

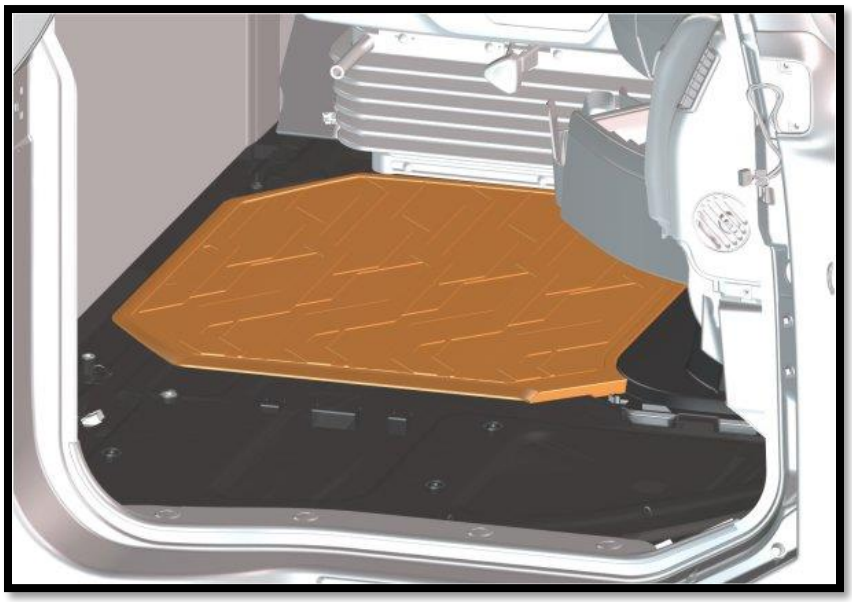
38. Install the plastic rivets.

39. Install the retainer.



VNRe Cabling and Cable Support Improvements

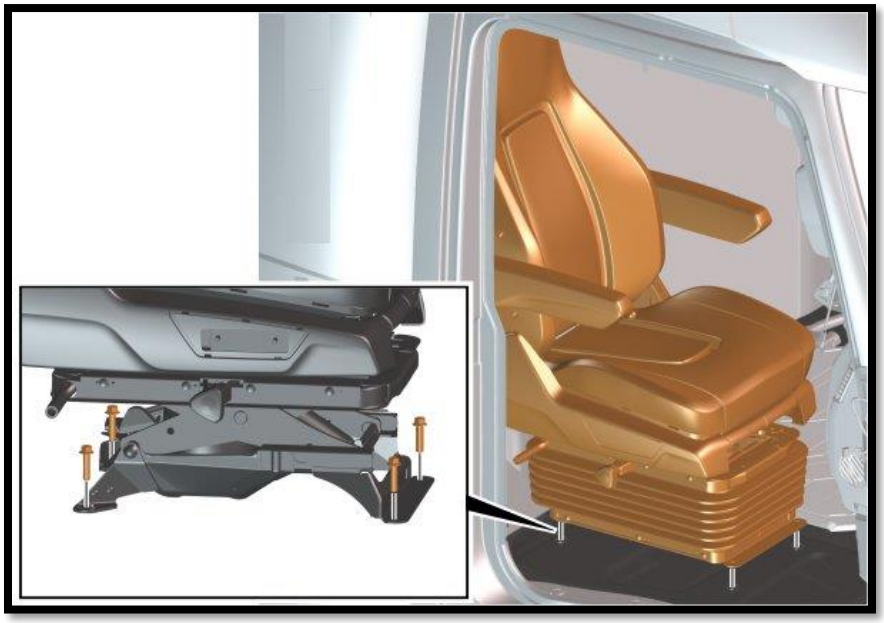
40. Install the floor mat.



41. Install the passenger seat.

42. Install and torque the screws.

Tightening torque	
Seat, screw	M10
	48 ±8 Nm (35 ±6 lb_f·ft)



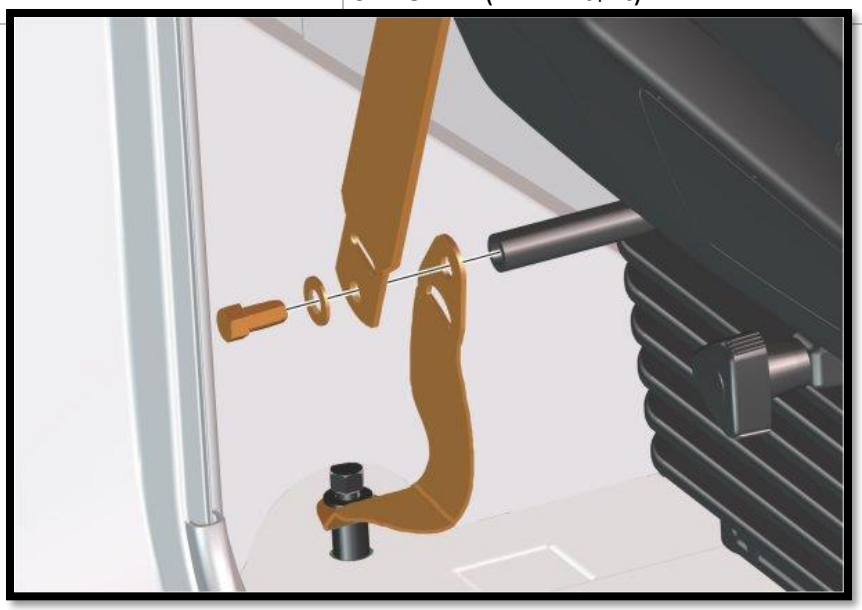
VNRe Cabling and Cable Support Improvements

43. Install seat belts.

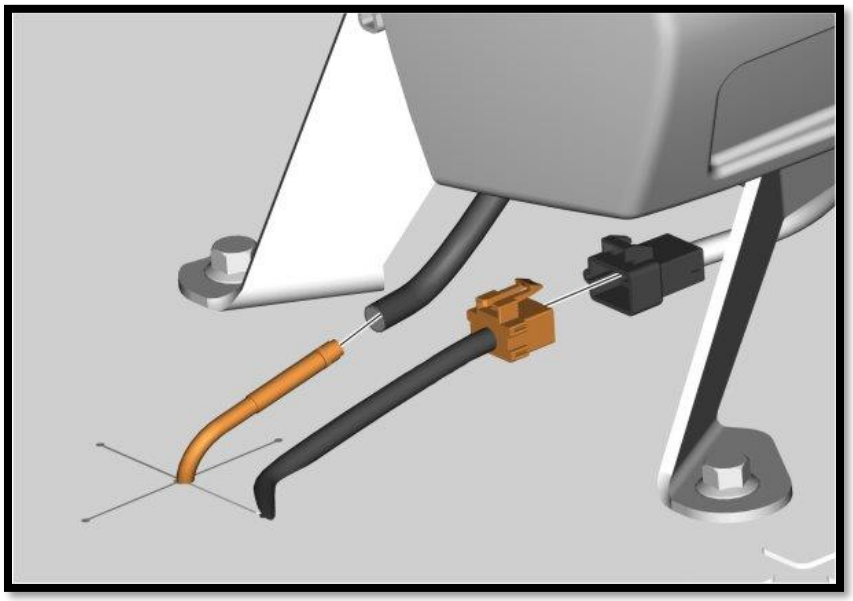
44. Install the washers and screw.

45. Torque the screw.

Tightening torque	
Seat belt, screw	M10
	64 ±3 Nm (47 ±2 lb_f·ft)



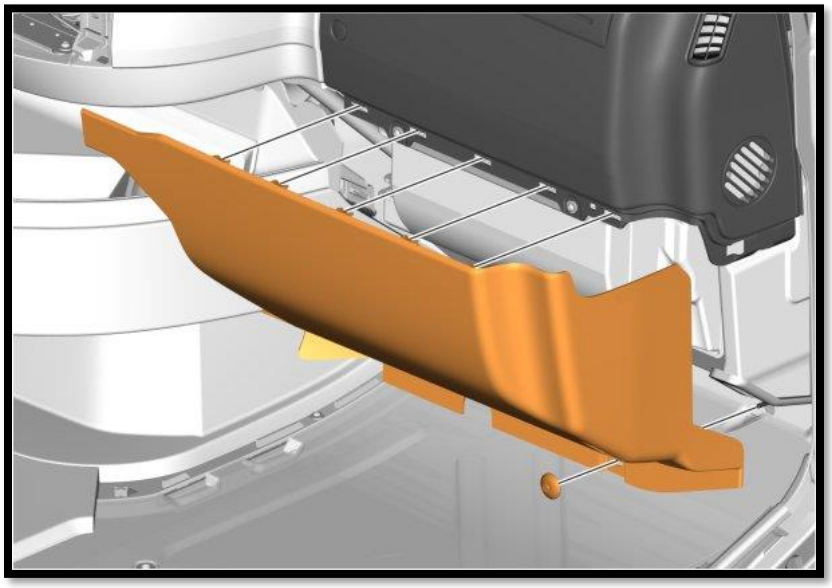
46. Connect the air pipe and connector.



VNRe Cabling and Cable Support Improvements

47. Install the panel.

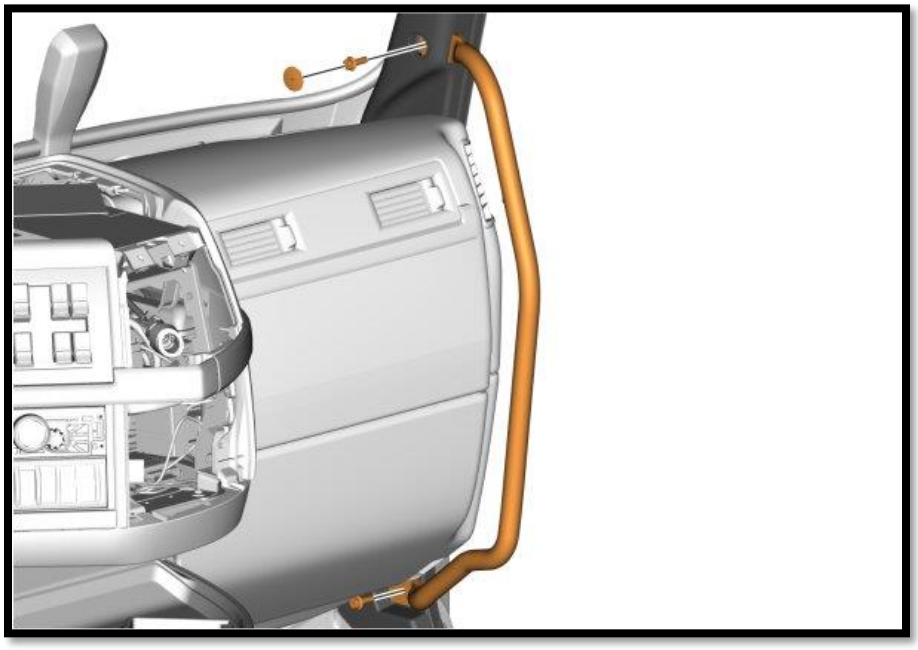
48. Install the retainer.



49. Install the handle.

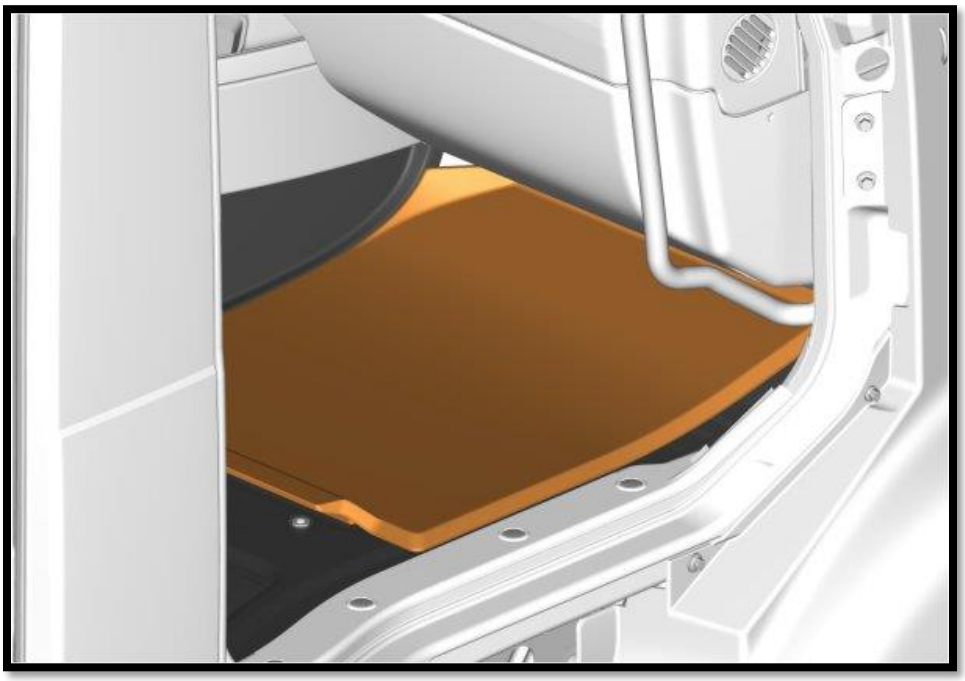
50. Install the screws and torque.

Tightening torque	
Screw	M8
	24 ±4 Nm (18 ±3 lb_f·ft)

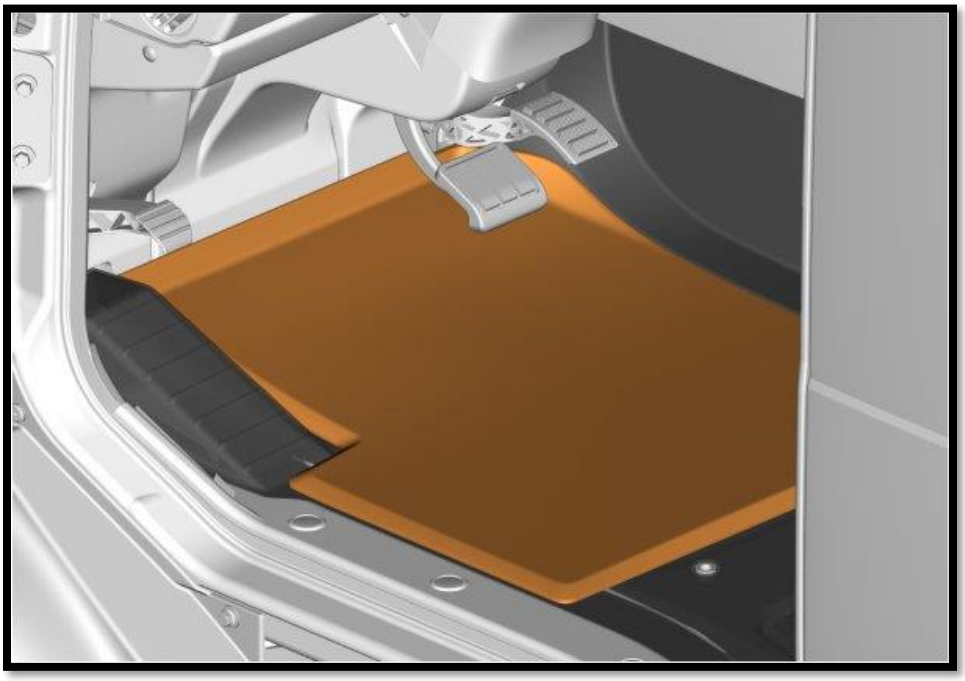


VNRe Cabling and Cable Support Improvements

51. Install the passenger floor mat.



52. Install the driver floor mat.



53. Follow steps 45 through 49 in Impact operation **3718-03-02-02 "Power Cable, Electric Motor Drive (EMD) to Electric Motor (EM), Replacement"** to complete the truck reassembly and to commission the traction voltage system.

54. Return the truck to service.