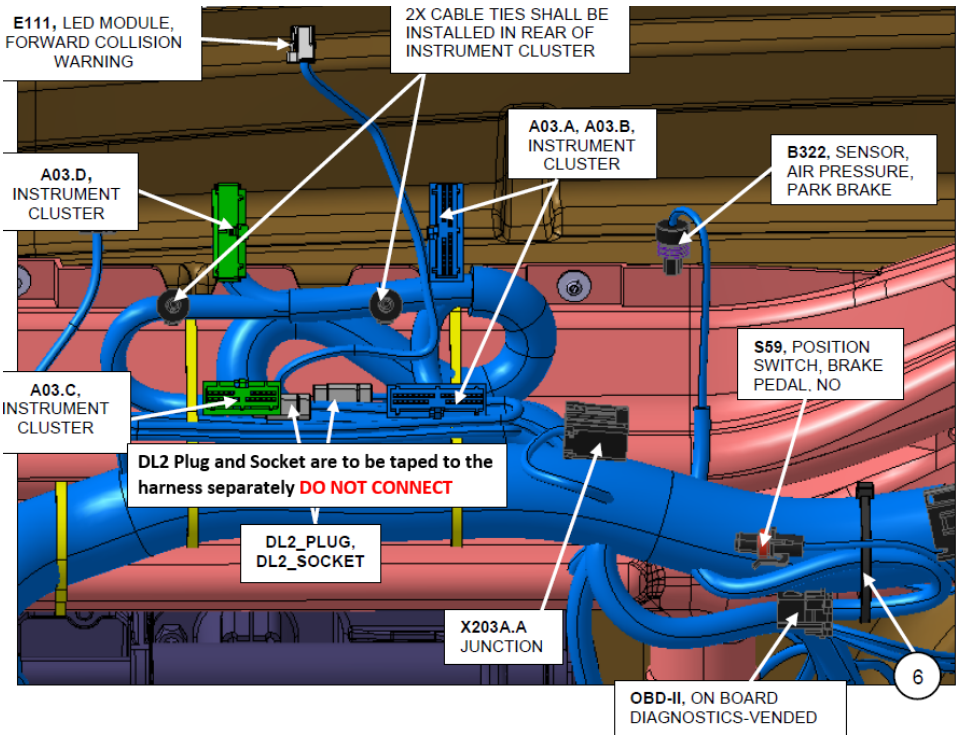
Volvo Chassis - Unable To Program VECU: Error Code 155; Possible EMS DTC U000188 CAN Communication Backbone 2 Net

Internal Content

For vehicles exhibiting these symptoms, there is an interconnect located behind the instrument panel that connects the instrument panel to the DL2 backbone. The current instrument panel does not support DL2 and when hooking it up to the DL2 there will be intermittent operations on the network.

This effects Volvo VN, VHD and VAH with variant ELS-BP+ built 1/1/2020 thru 4/19/2021

A quick way to identify if the innerconnect has been connected is to take an ohm reading between Pins 6 and 14 of the OBD diagnostic connector. If the resistance is around 40 ohms, pull the instrument cluster per 3811-03-02-10 Instrument Cluster, Replacement and see if the Deutsch two way connector has been connected. If they have, disconnect and tape each connector to the main harness separately.



Live UI

Tags

error 155 u000188 programming failure volvo

Related links and attachments

3811-03-02-10 IC Replacement

Feedback

Give feedback

to help improve the content of this article

Live UI

38168-2 Instrument Cluster, Replacement

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

i	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

CAUTION

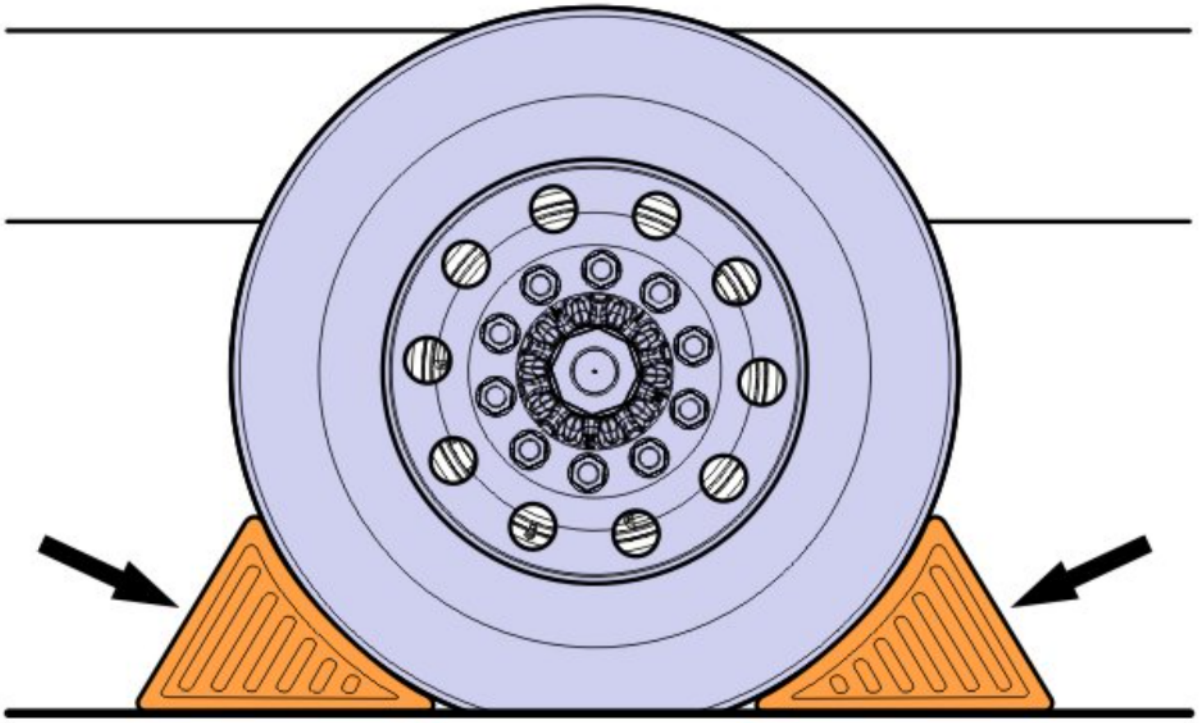
Service Information Advisory.

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 3, "General Safety Practices, Elecrical and Electronics" before performing this procedure.

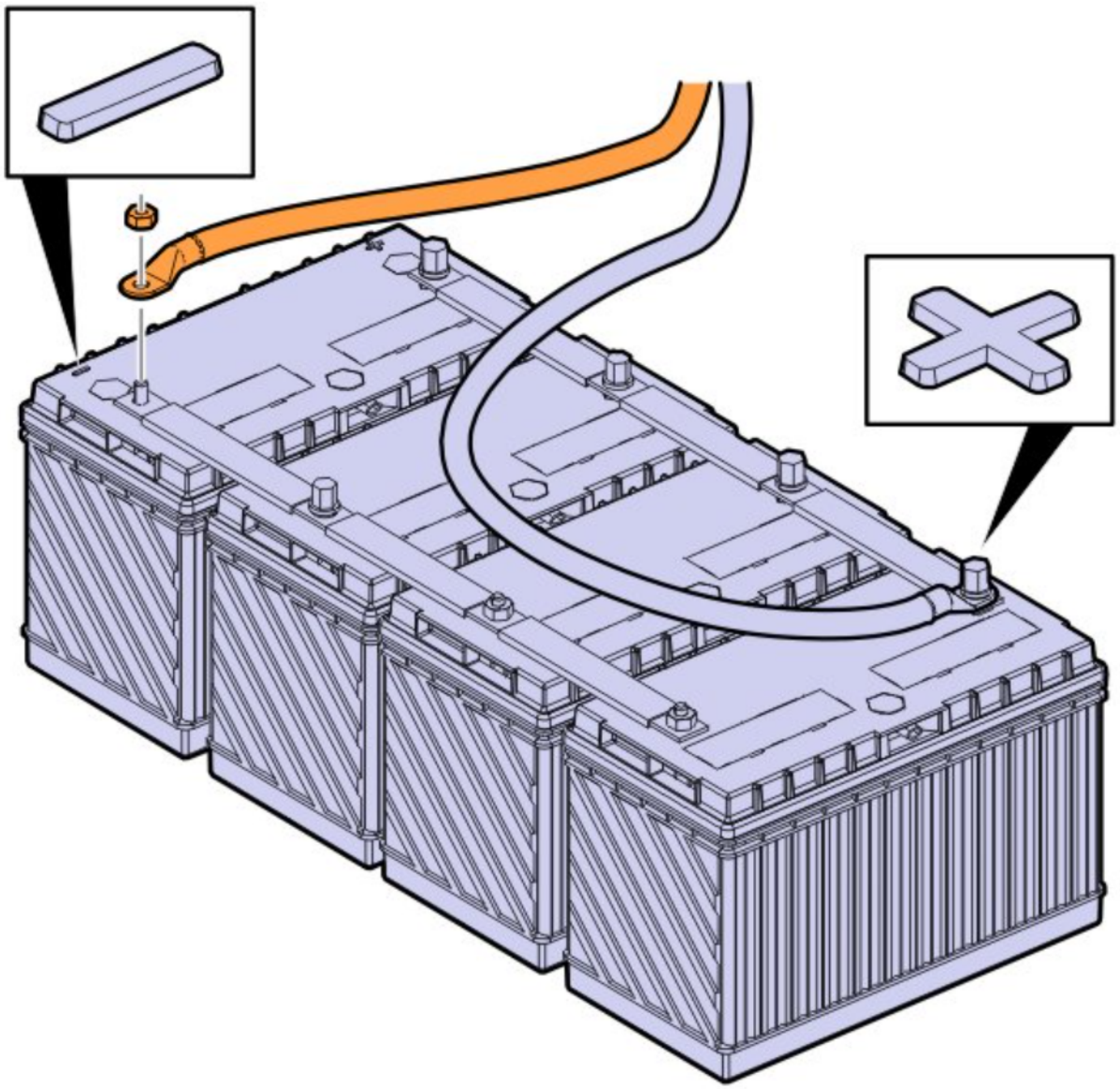
1	Park the vehicle on a level surface with the steering wheel in the straight ahead position.
2	Apply the parking brake.
3	Place the gear lever in neutral.
4	Install the wheel chocks.

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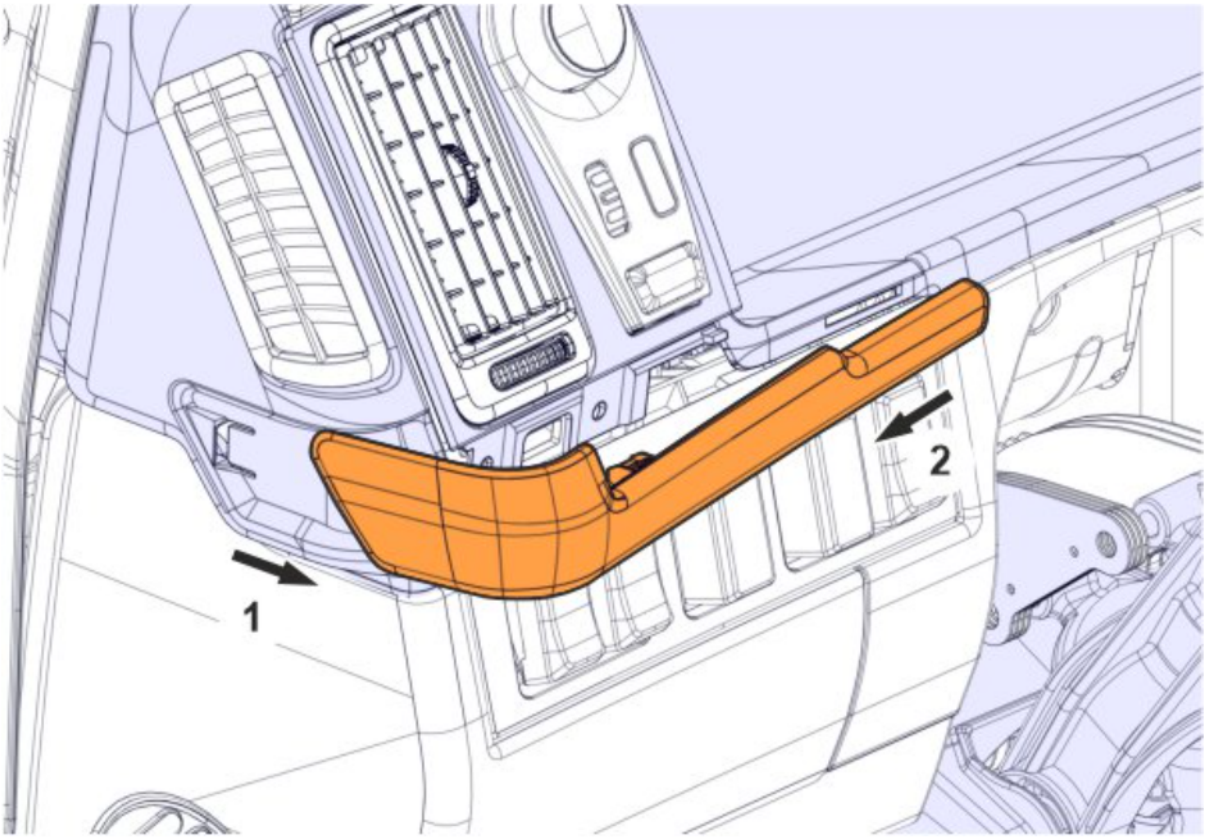
5	Disconnect the cable from the negative terminal.

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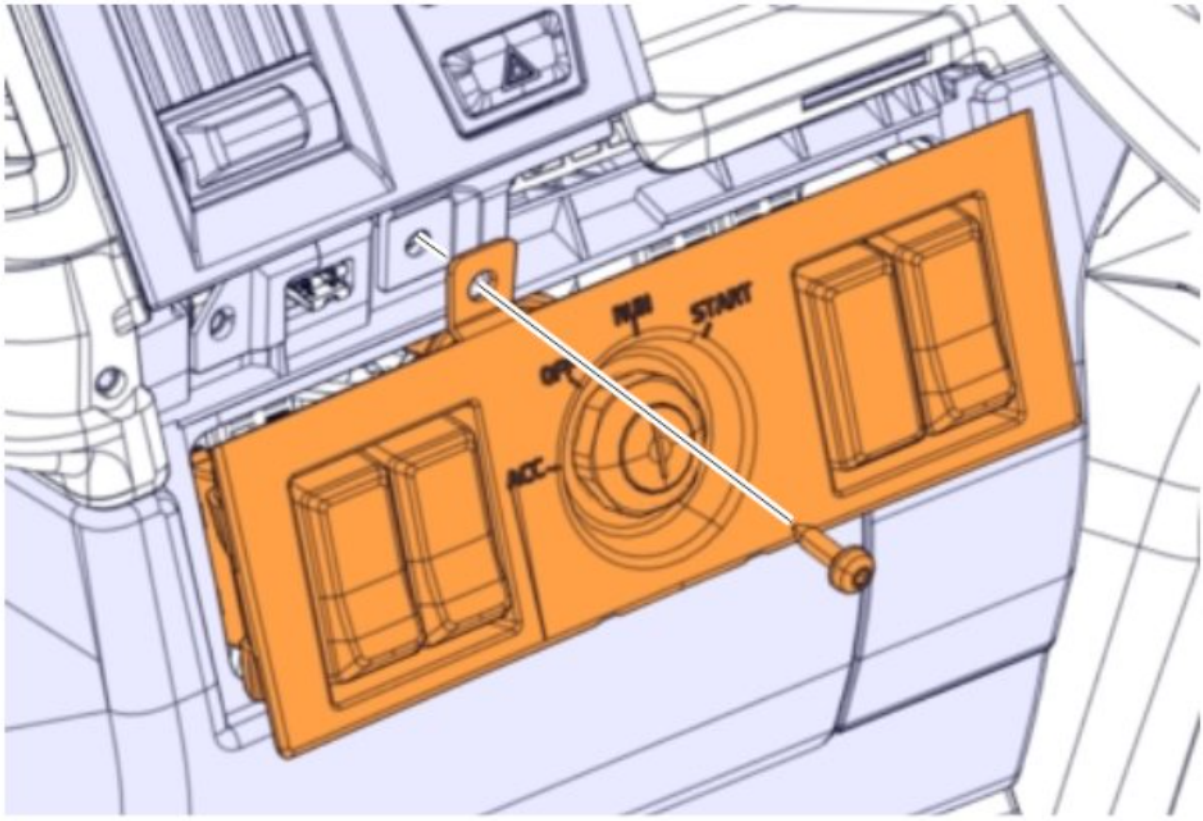


6	Remove the dashboard trim panel. **Note** Ensure not to damage the component.

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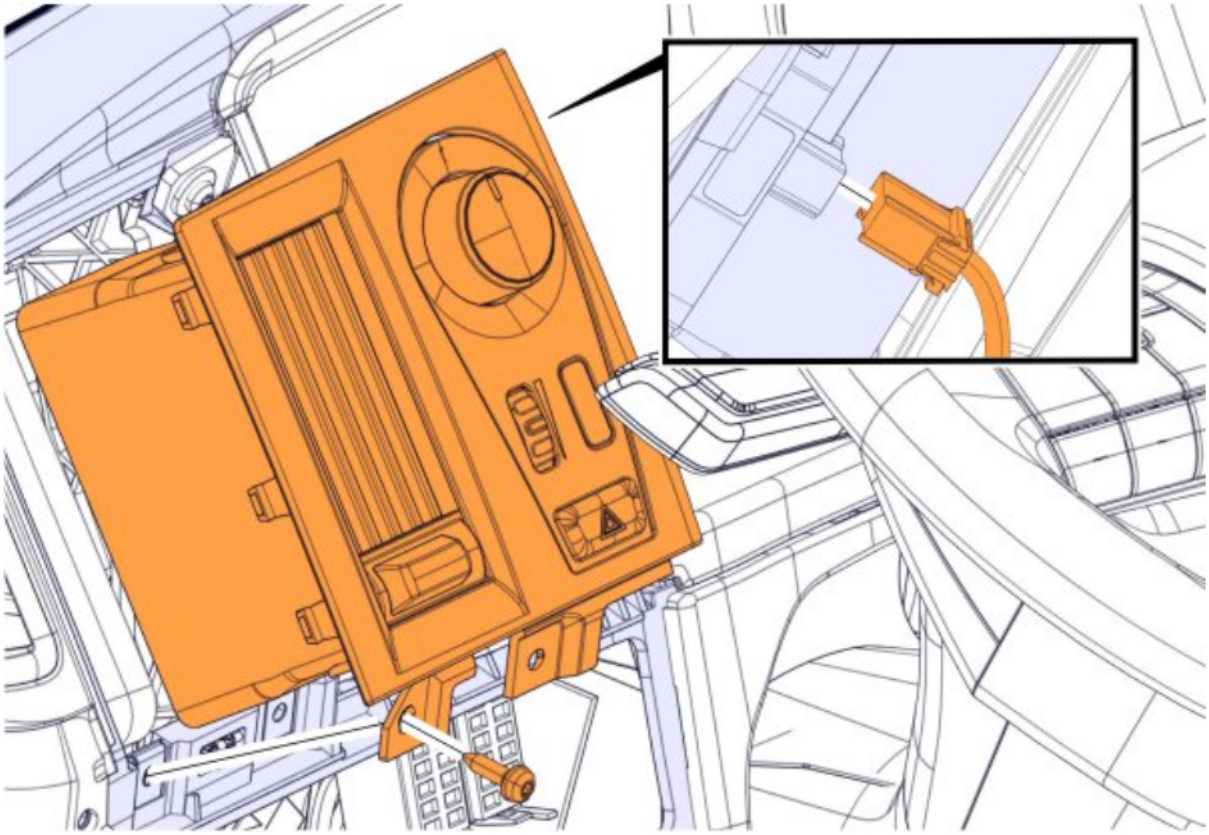
7	Remove the screw.
8	Remove the panel.



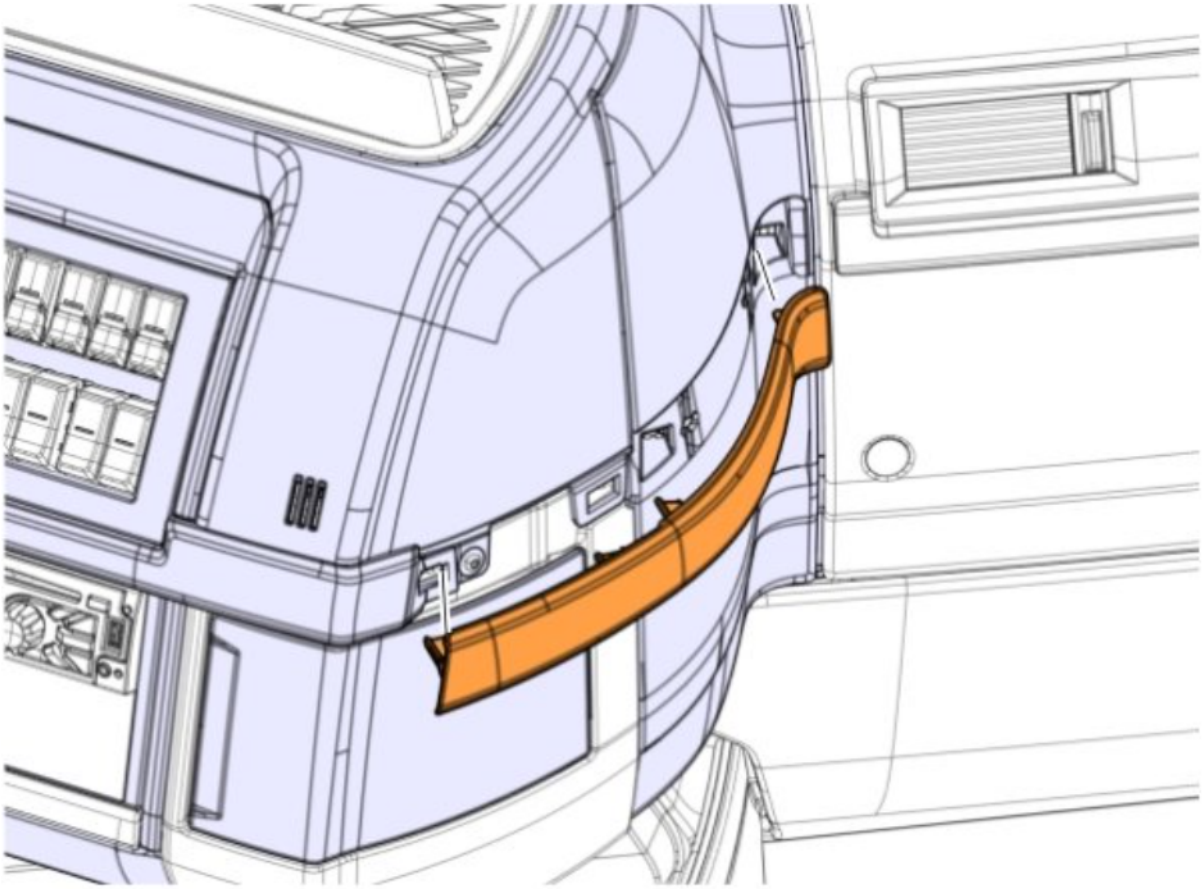
9	Remove the screw.
10	Remove the assembly.

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11	Disconnect the connector.

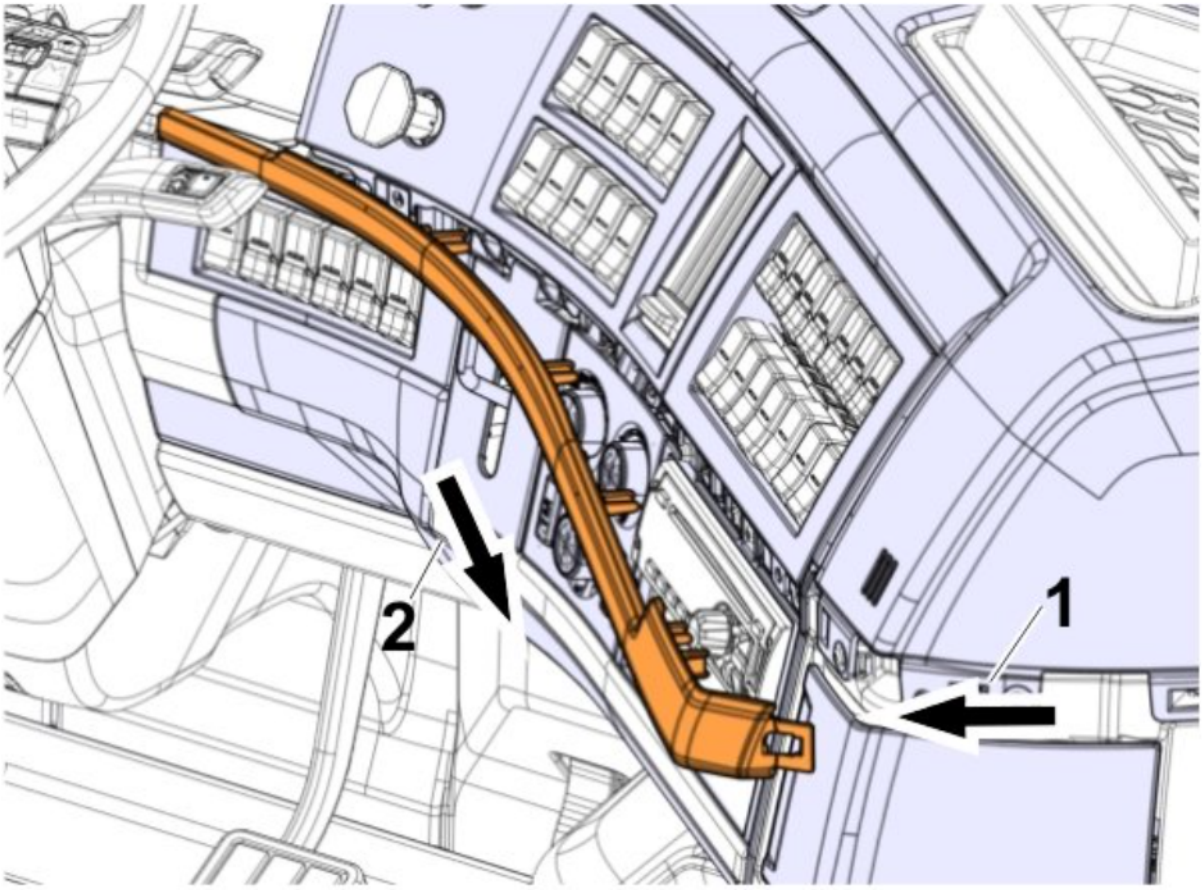


12	Remove the trim.



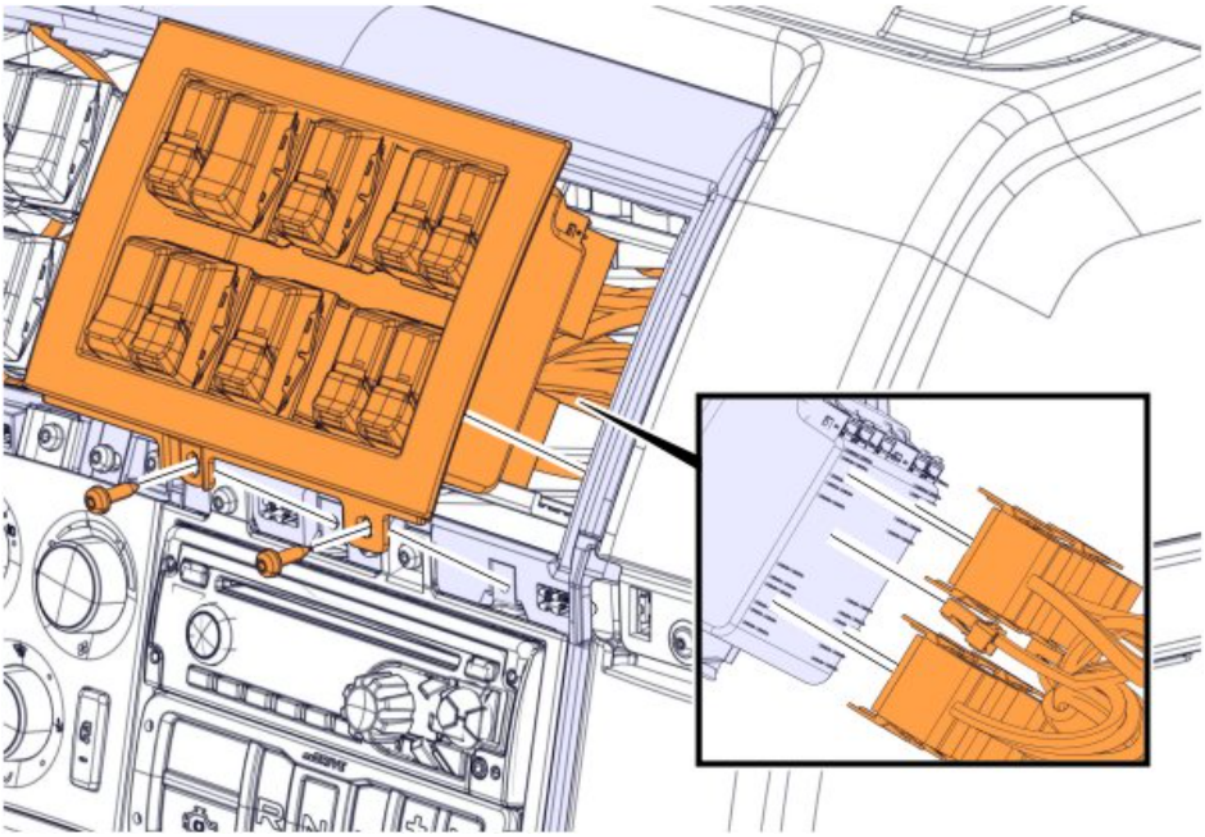
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13	Remove the trim.



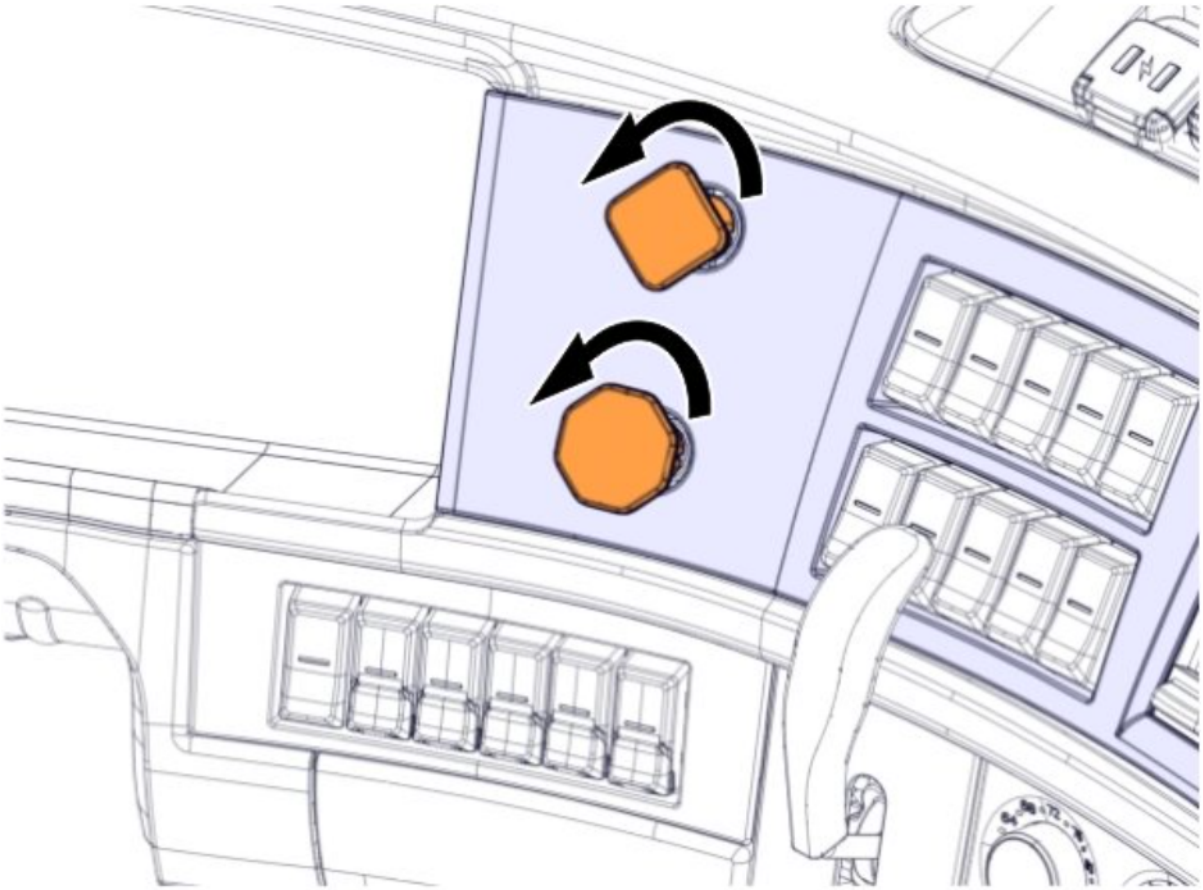
14	Remove the screws.
15	Pull out the radiator assembly.
16	Disconnect the connectors.
17	Remove the assembly.

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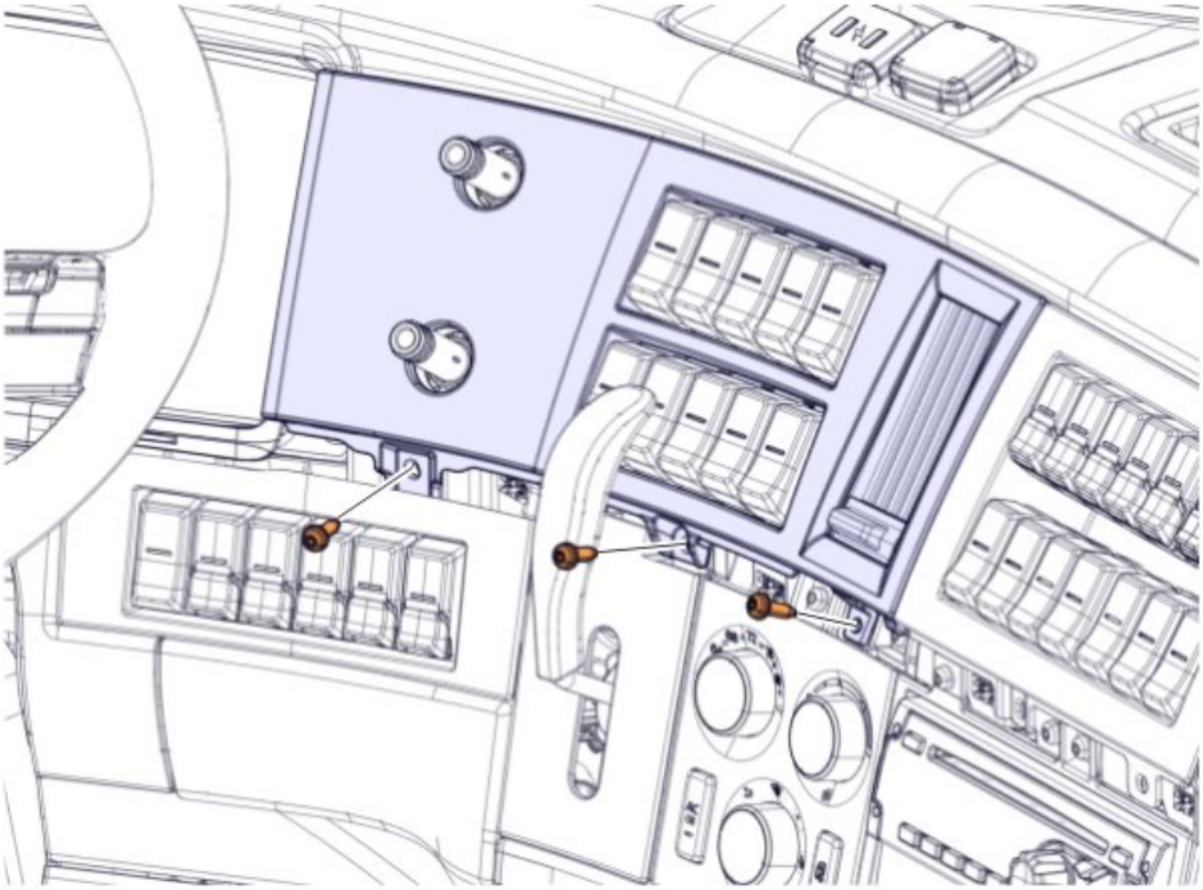


18	Remove the brake valve knobs. **Note** Note the orientation of the knobs before removal.

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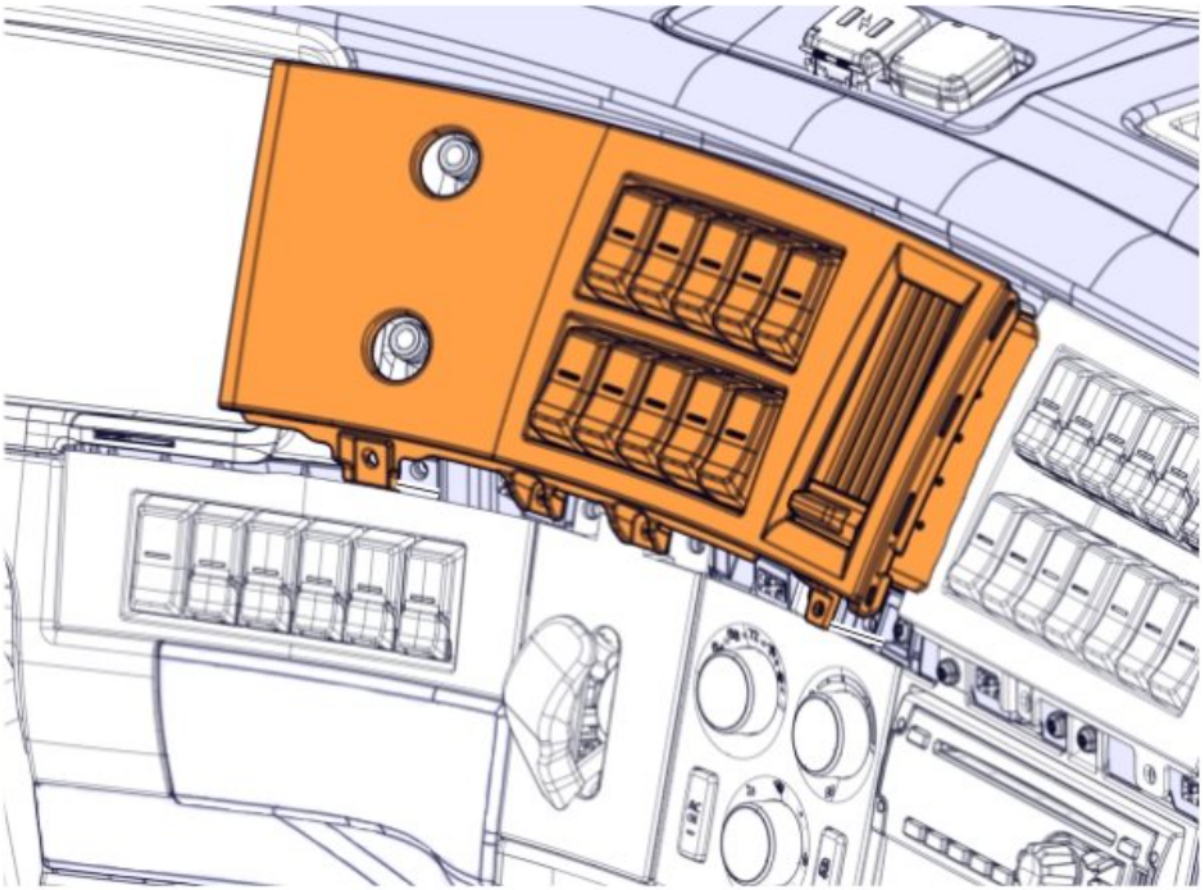


19	Remove the screws.



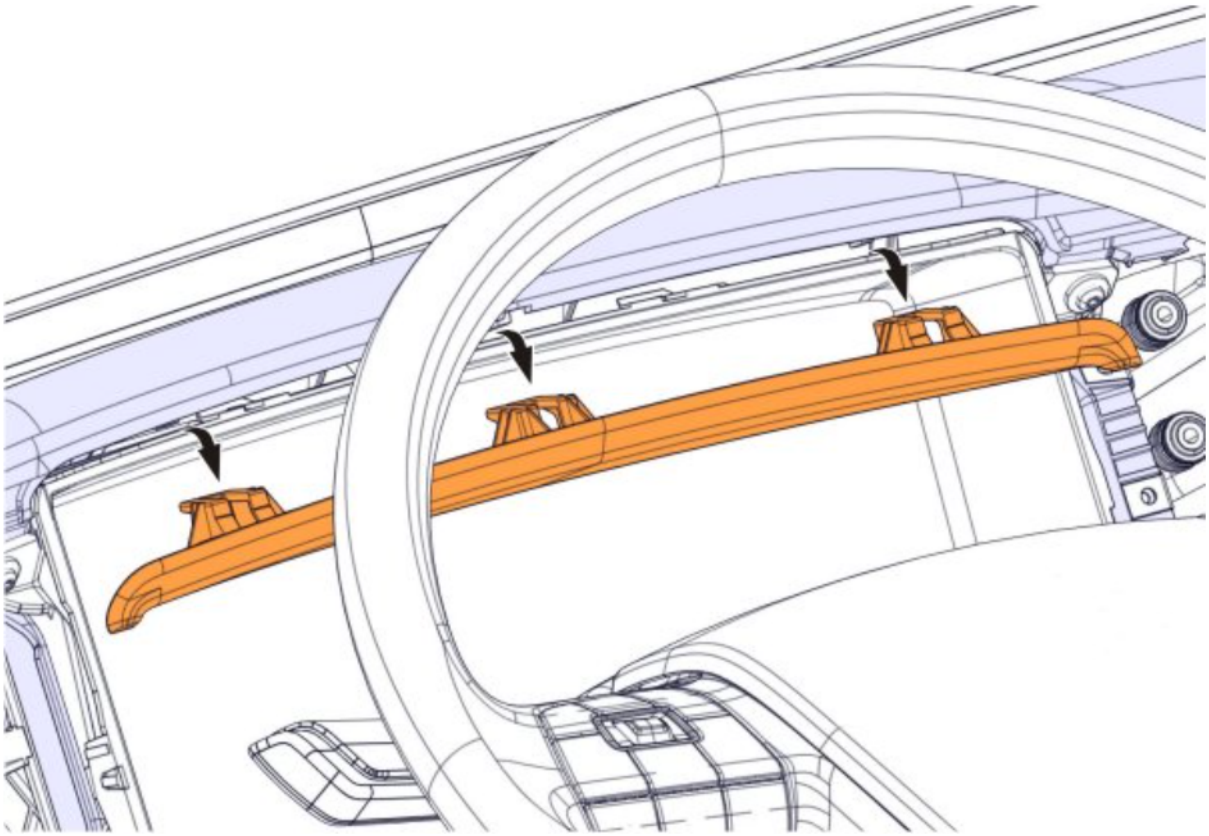
20	Remove the panel.

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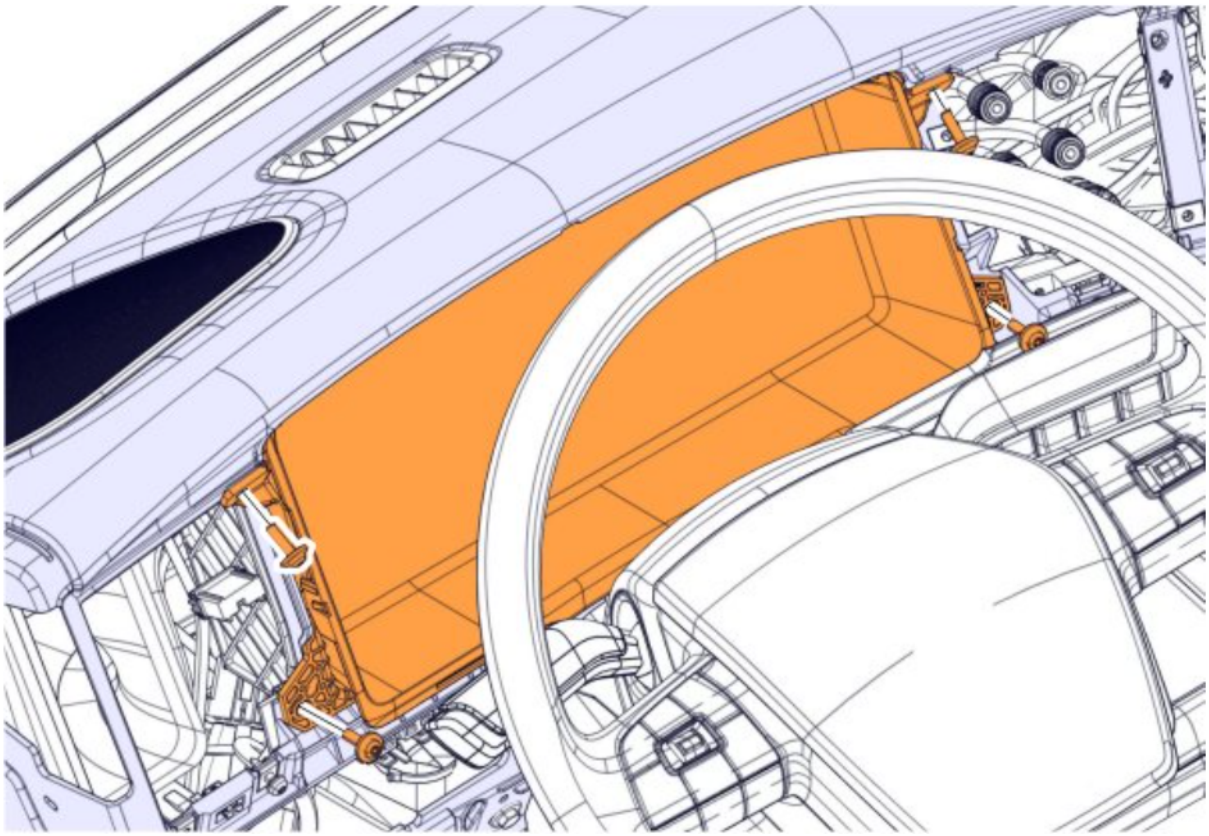


21	Remove the trim. Note Take care not to damage the component.

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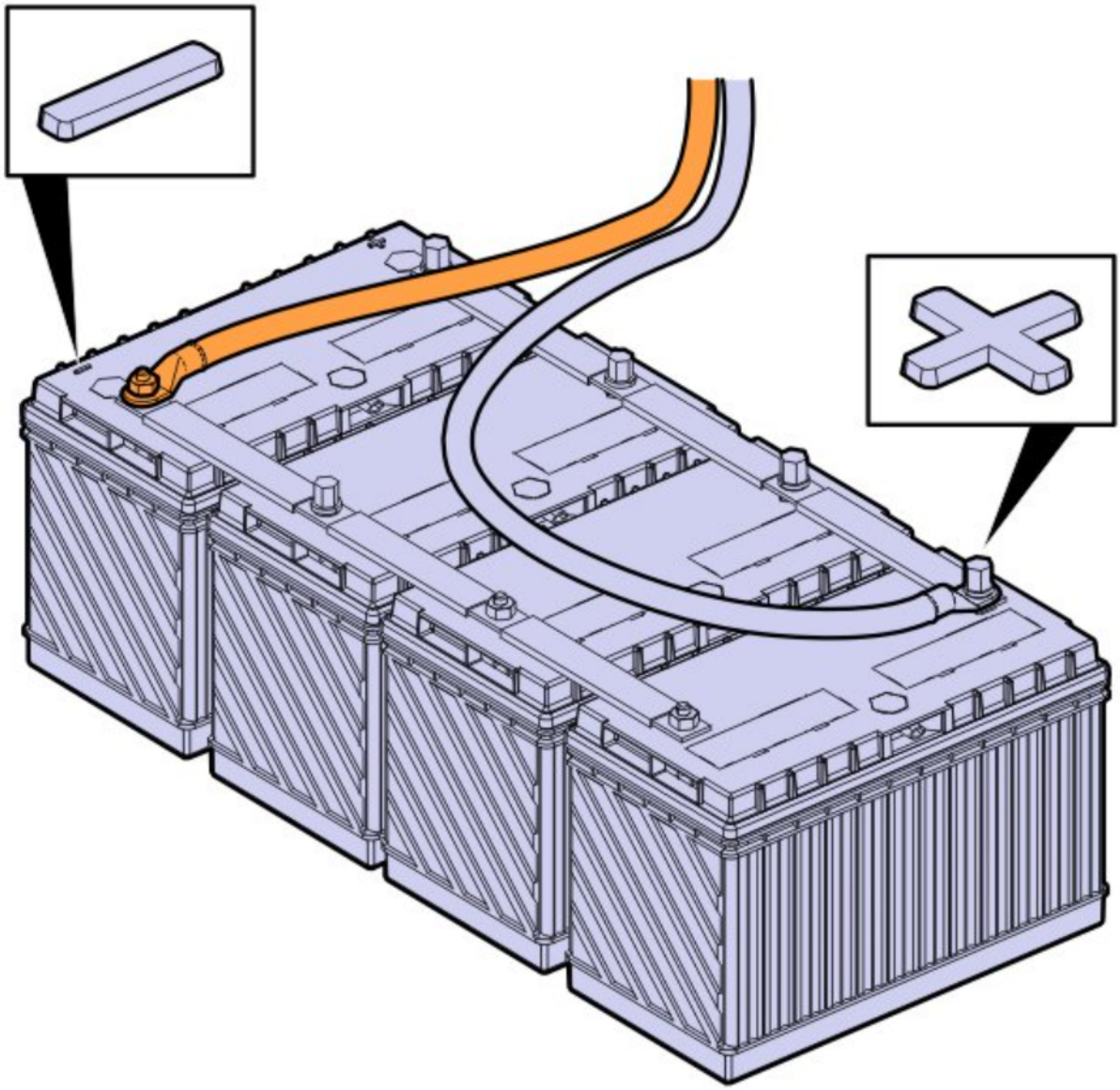


22	Remove the screws.



23	Connect the cable to the negative terminal.

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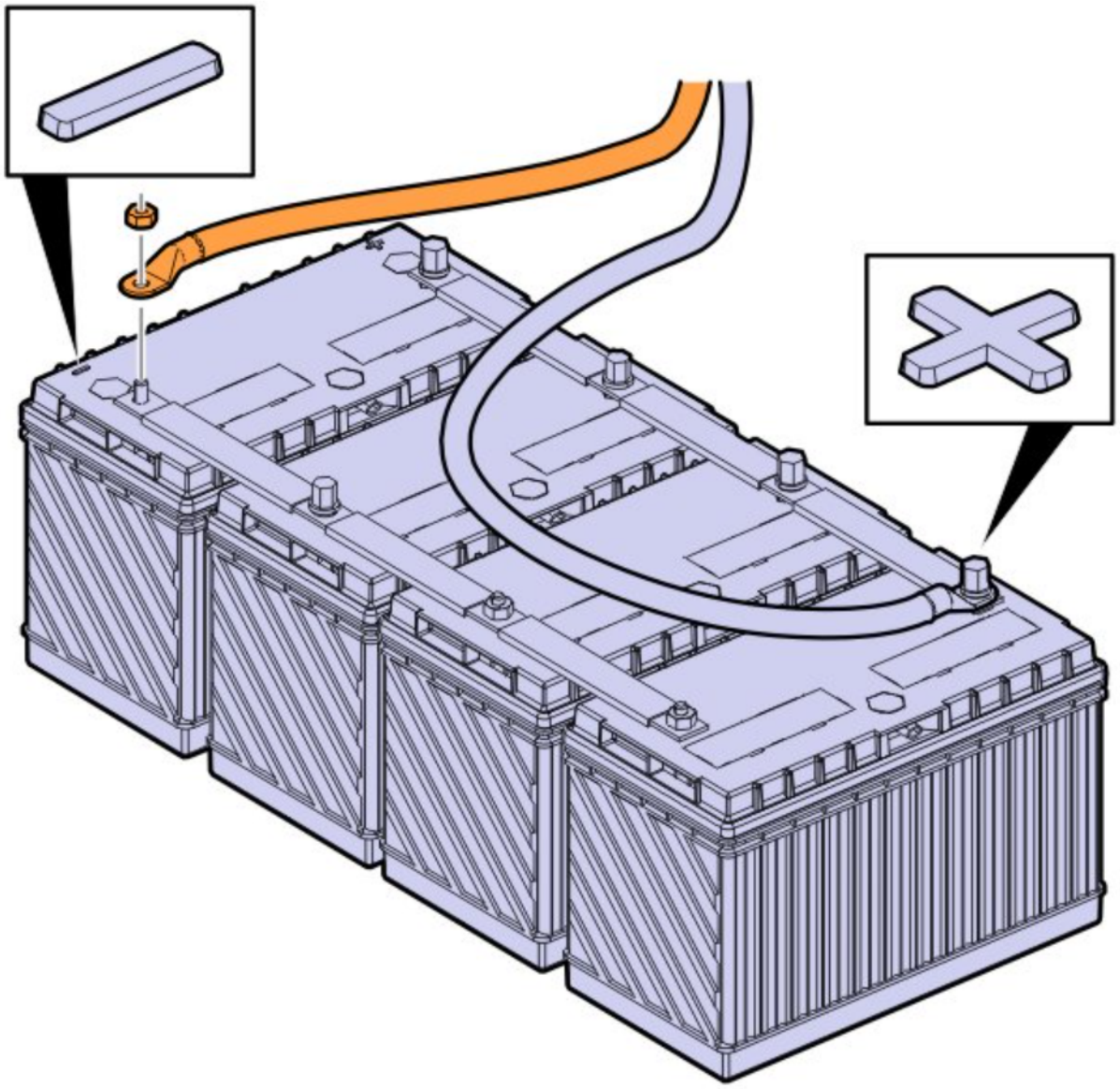
24	Connect the diagnostic tool (Premium Tech Tool).



25	Perform Replace hardware, programming in the diagnostic tool (Premium Tech Tool).

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26	Select MID 140 in the diagnostic tool.
27	Follow the instructions.
28	Perform System date and time, programming in the diagnostic tool (Premium Tech Tool).
29	Perform Odometer, programming in the diagnostic tool (Premium Tech Tool).
30	Disconnect the cable from the negative terminal.

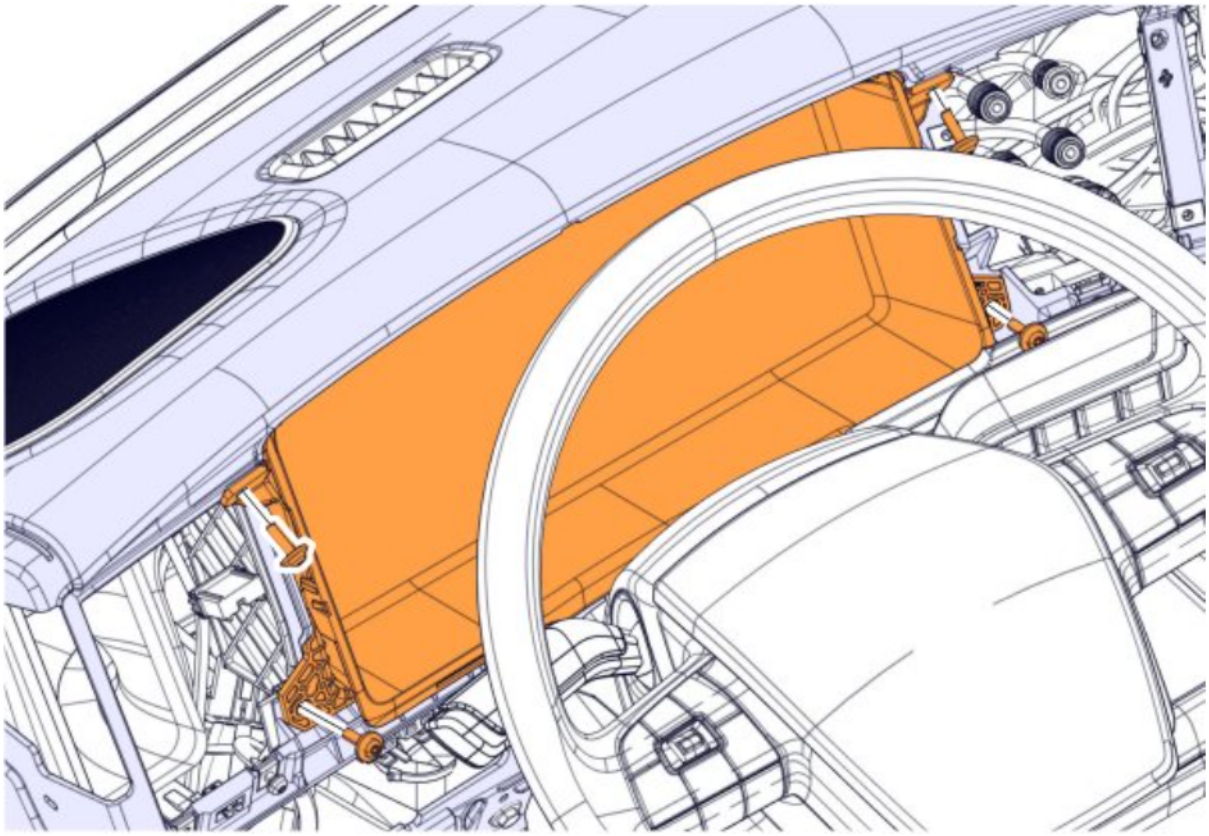


31	Disconnect the diagnostic tool (Premium Tech Tool).
32	Install the screws.
33	Torque tighten the screws.

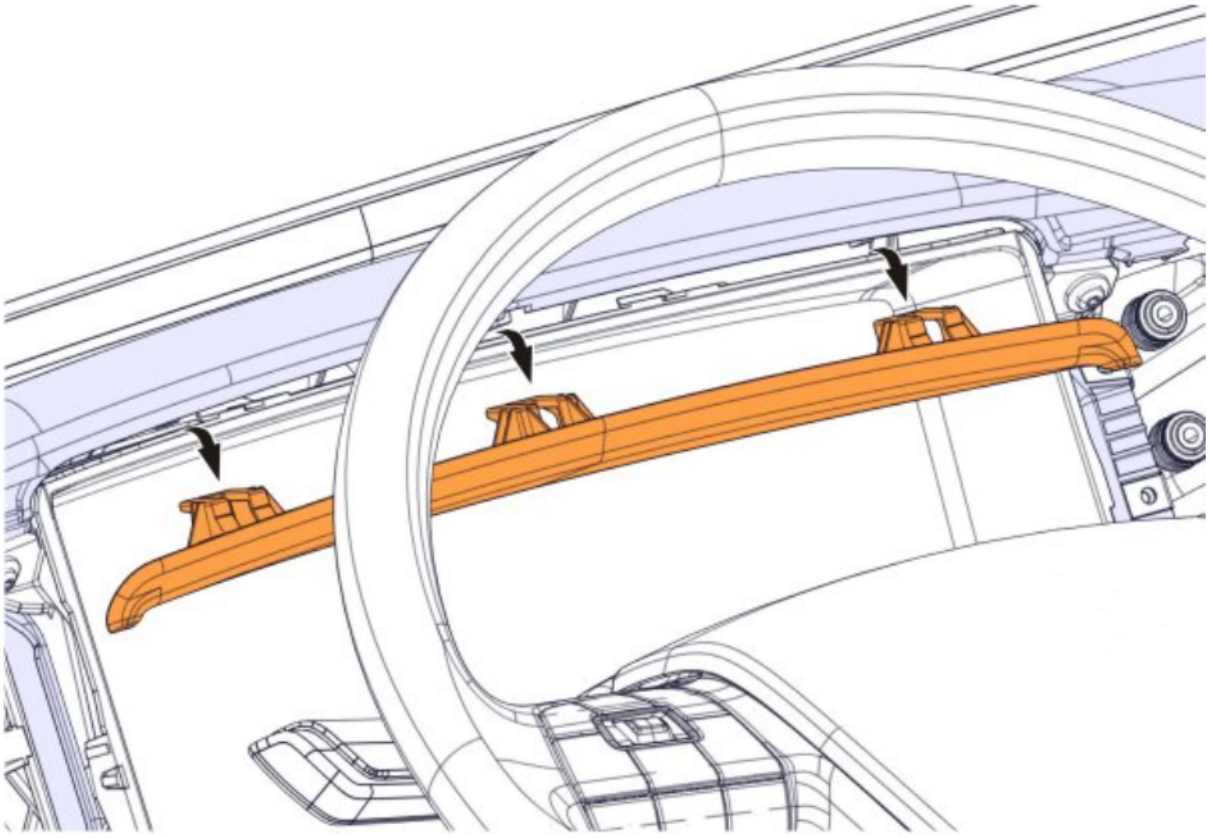
Tightening torque	
Instrument cluster, screw	M6
	12 ±2 Nm

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	(9 ±1 lb_f·ft)

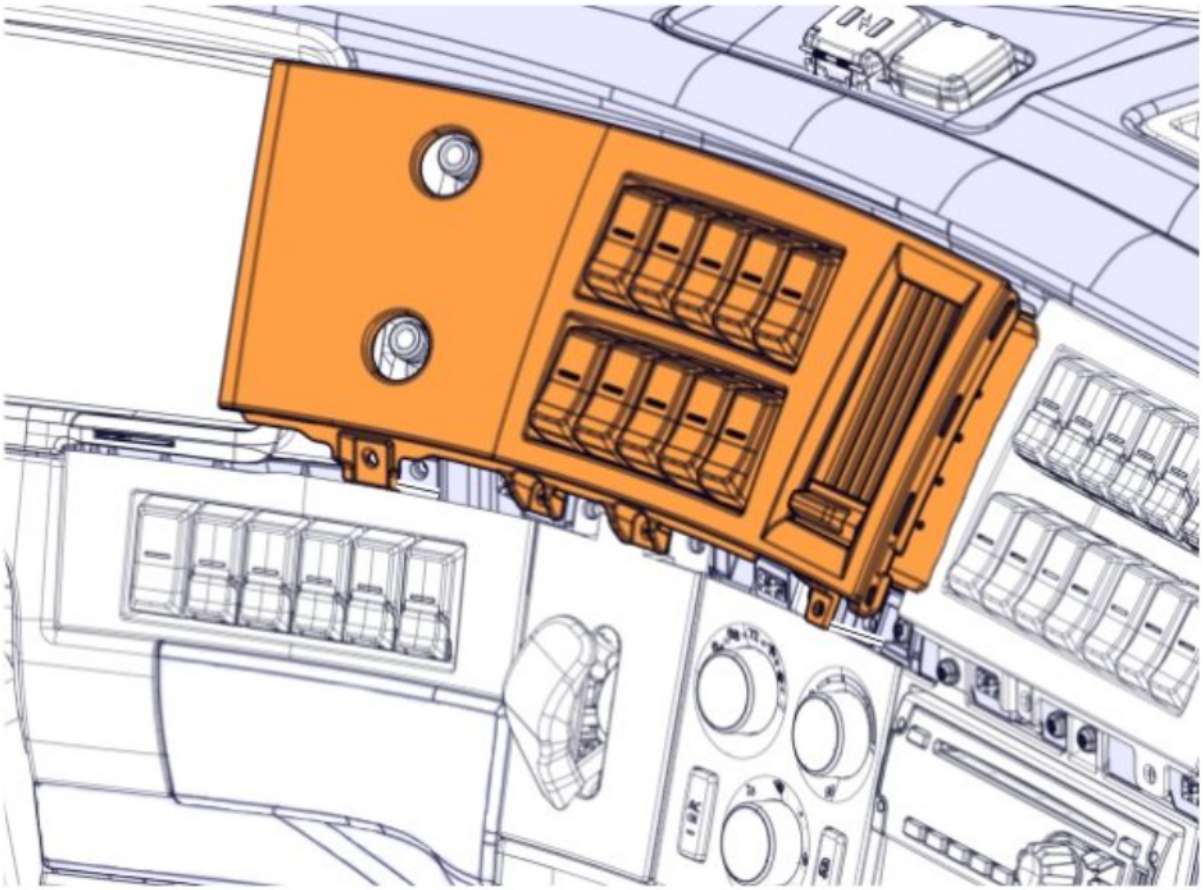


34	Install the trim.

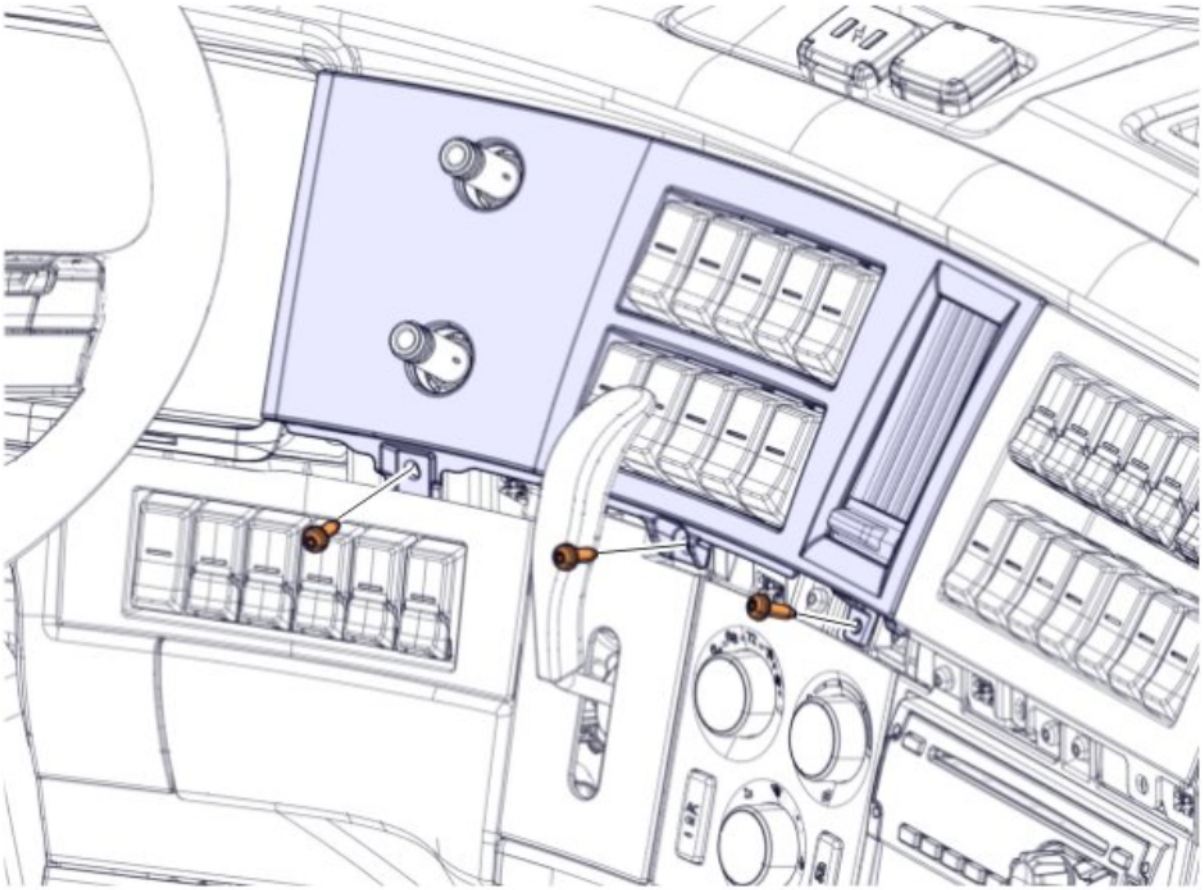


35	Install the panel.

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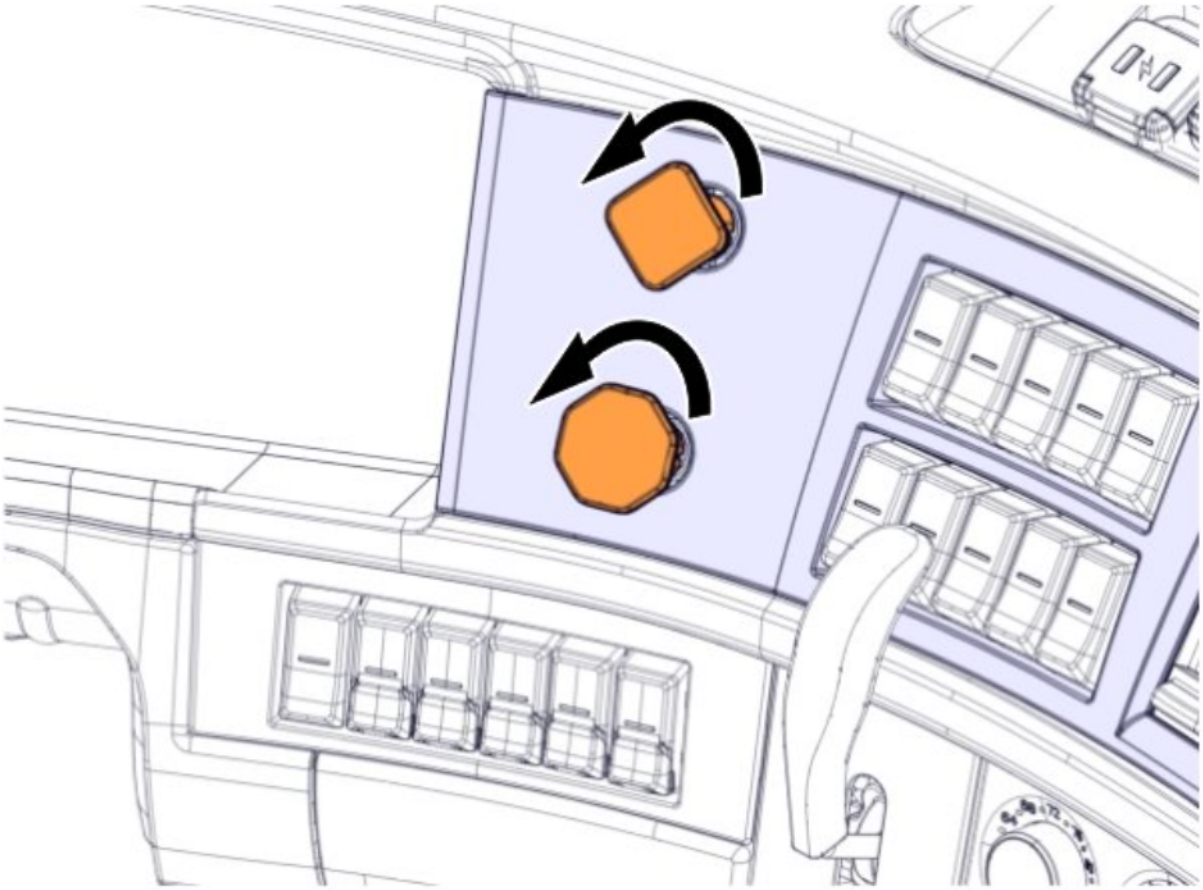
36	Install the screws.



37	Install the brake valve knobs.

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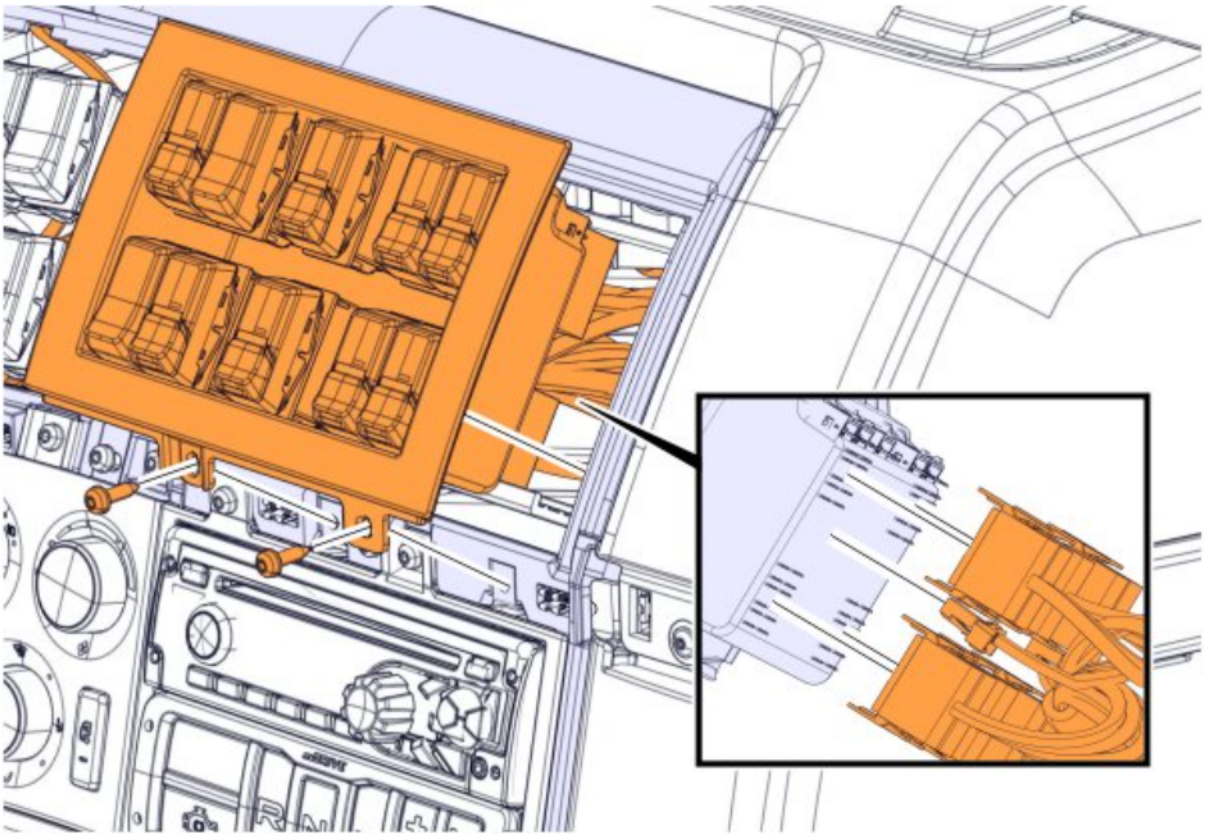
	Note Install as noted in removal.



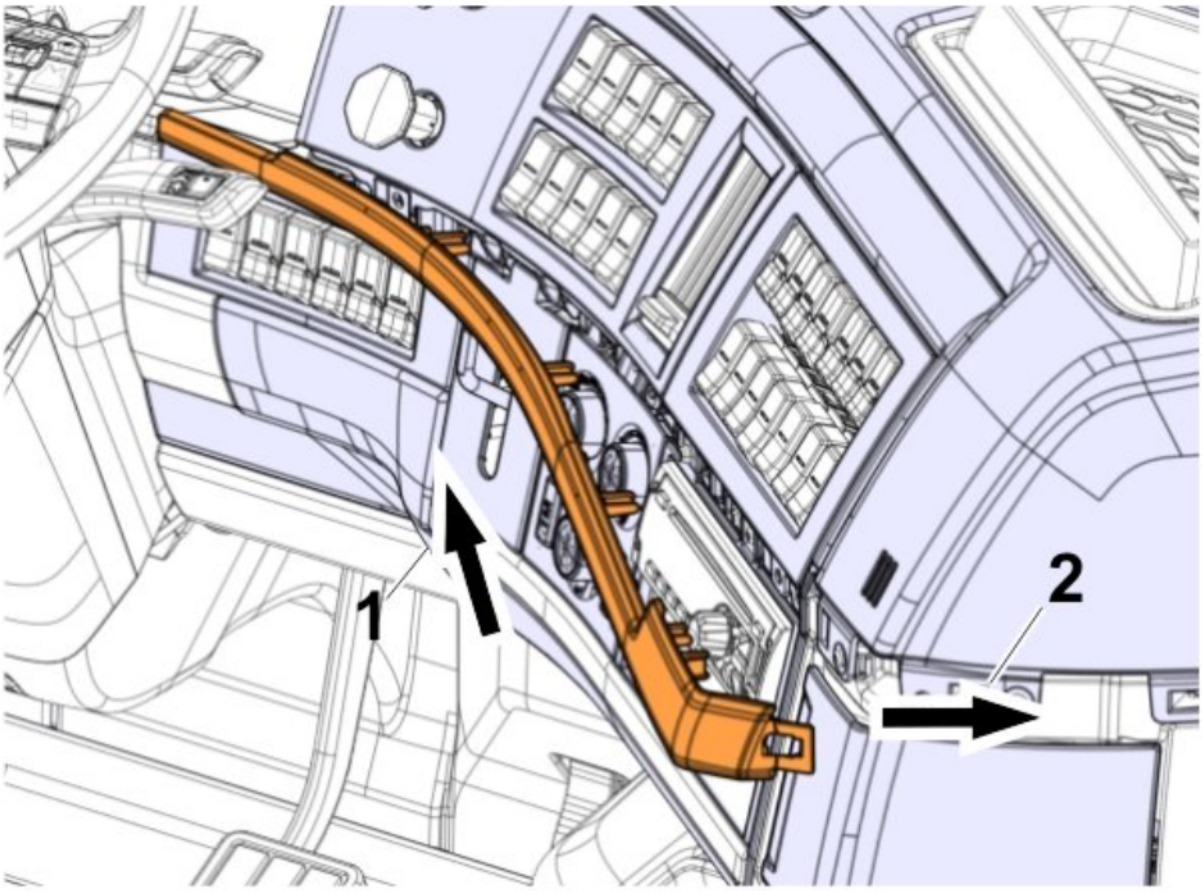
38	Connect the connectors.
39	Install the assembly.
40	Install the screws.
41	Torque-tighten the screws.

Tightening torque	
Dashboard, panel, screw	M4
	1.5 ±0.5 Nm (13 ±4 lb_f·in)

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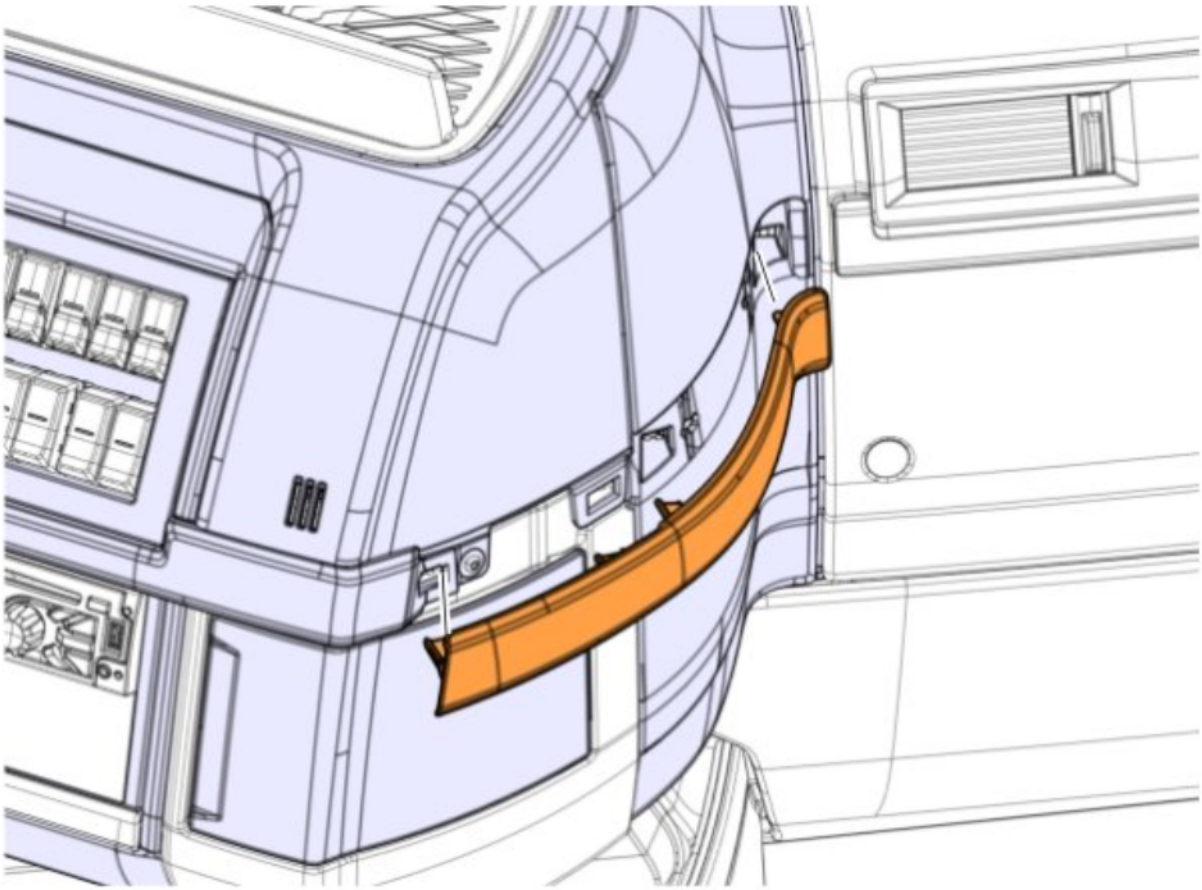


42	Install the trim.



43	Install the trim.

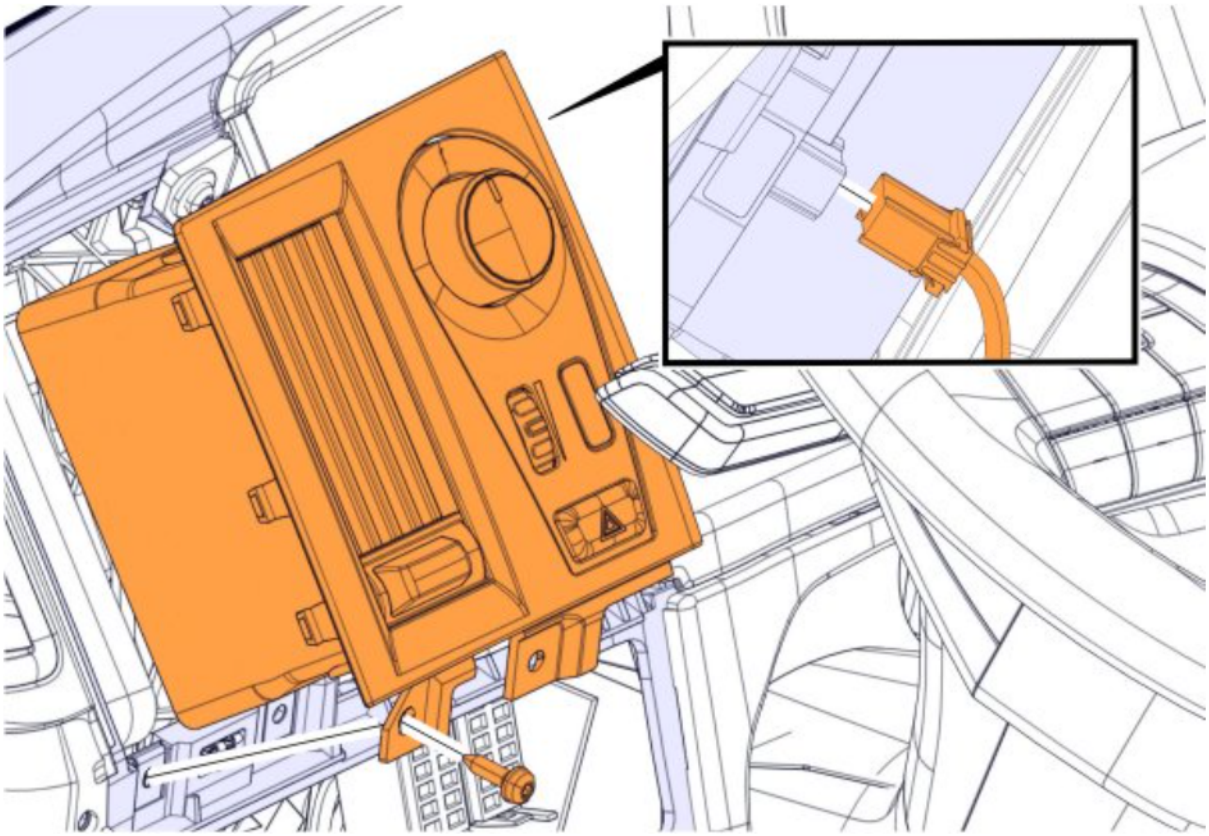
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44	Connect the connector.
45	Install the assembly.
46	Install the screw.
47	Torque tighten the screw.

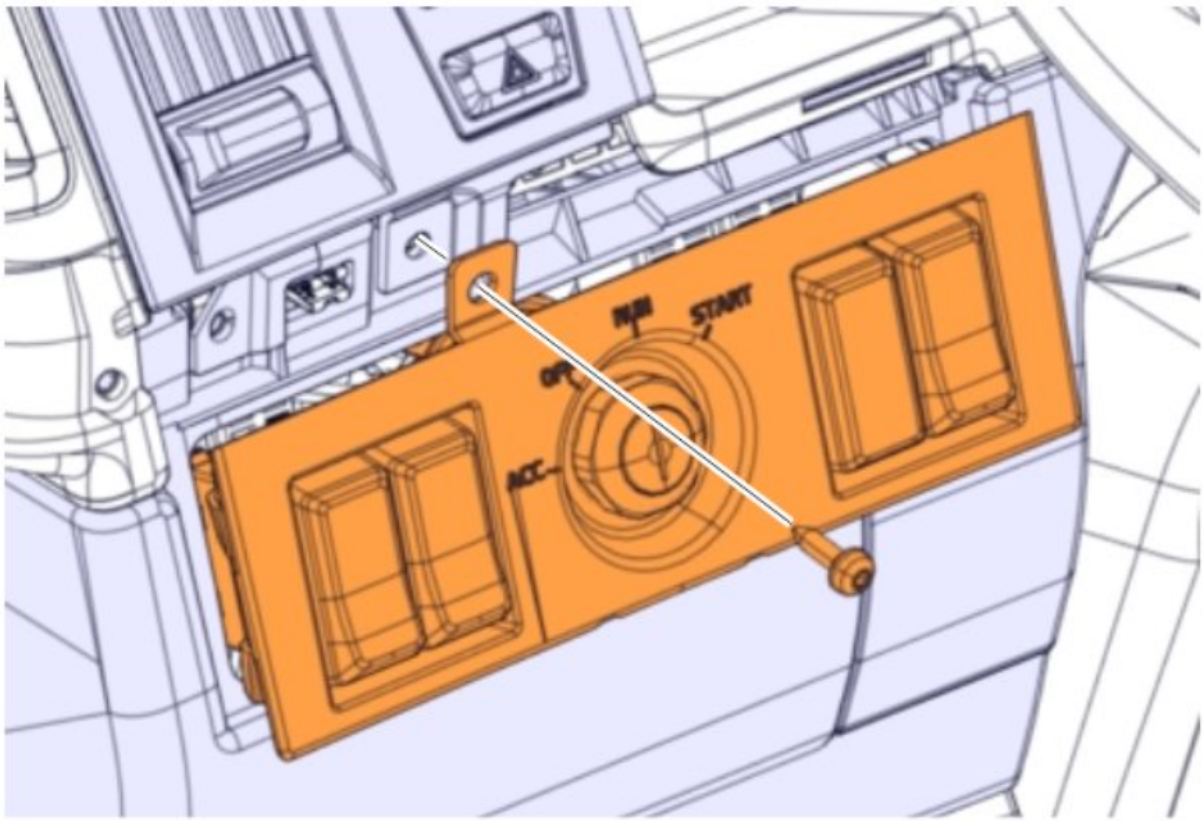
Tightening torque	
Dashboard, panel, screw	M4
	1.5 ±0.5 Nm (13 ±4 lb_f·in)

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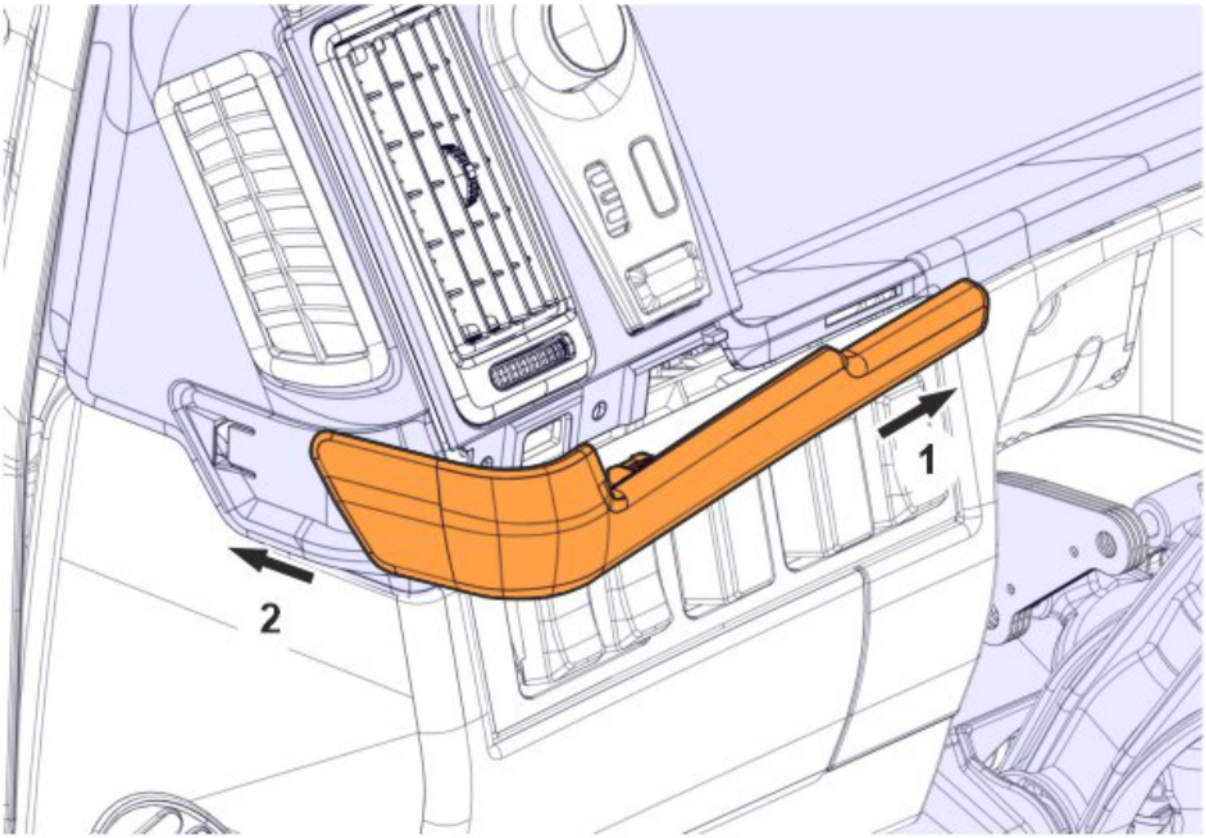
48	Install the panel.

49	Install the screw.



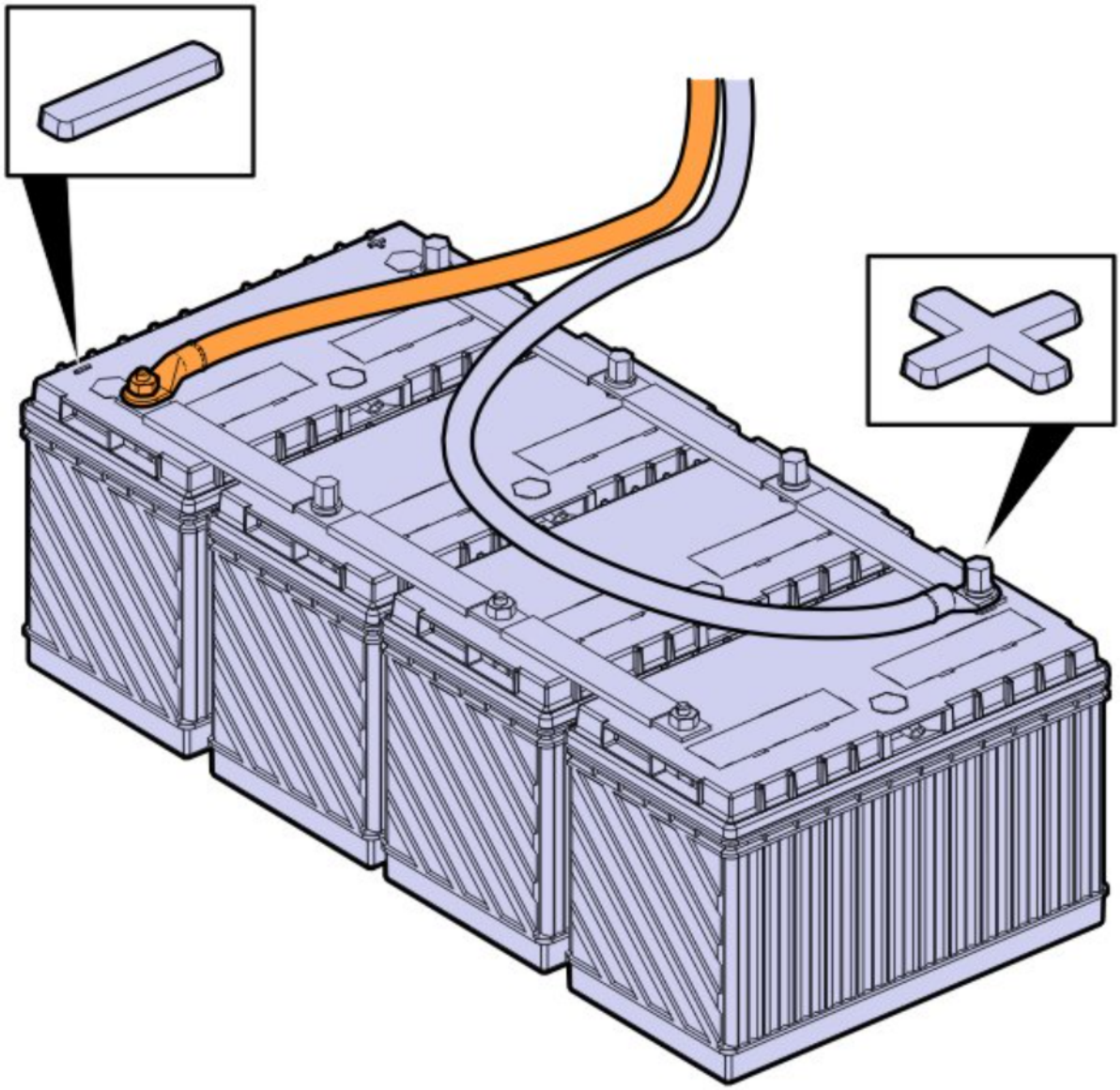
50	Install the dashboard trim panel.

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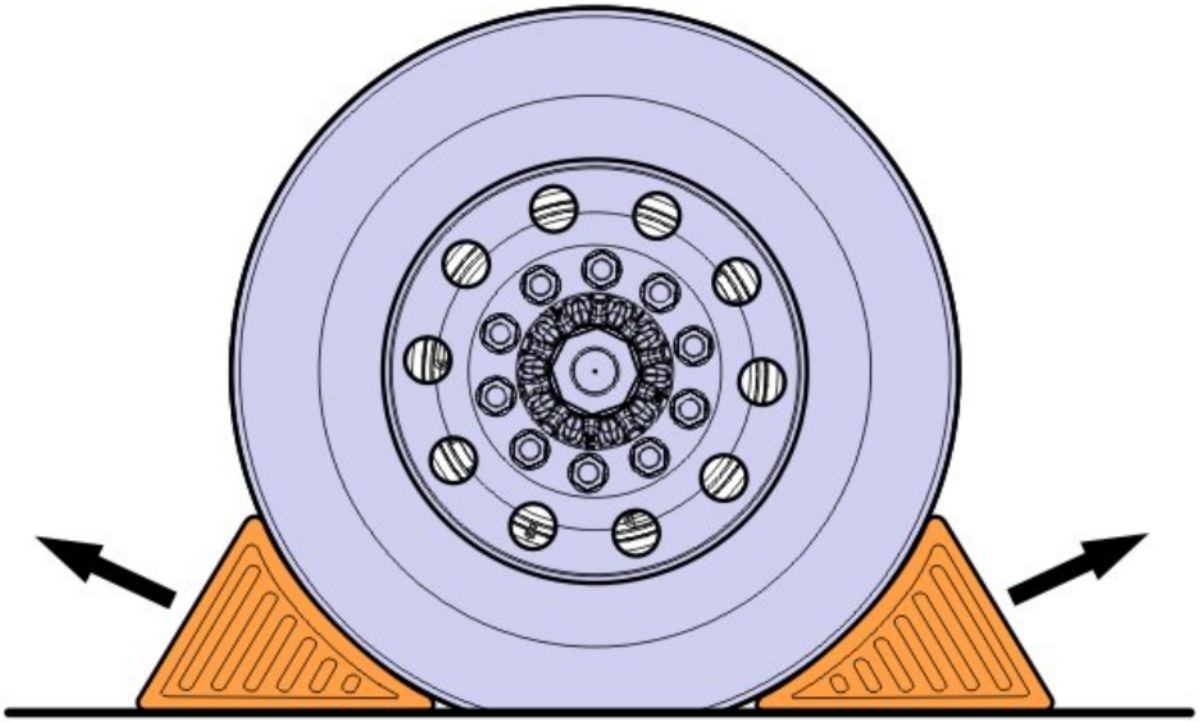
51	Connect the cable to the negative terminal.

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52	Remove the wheel chocks.

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