

24-volt Battery Hold Down Bracket

Service Category Service

Section Function Group 311

Technician Skill Level A

Market North

America Applicability

VOLVO

Years	Models
2021-2023	VNRE

Introduction

Volvo Trucks has determined that certain VNRE model vehicles have been built with a 24-volt battery hold down bracket that does not meet Volvo's quality standards. To correct this issue, replacement of the 24-volt battery hold down bracket is needed on affected vehicles.

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	08-April-2022

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
17-20-16-09-01	Campaign, General x7	0.7
Causal Part	23958972	
SCC Authorization Code	S2961	
Expiration Date	July 31, 2024	

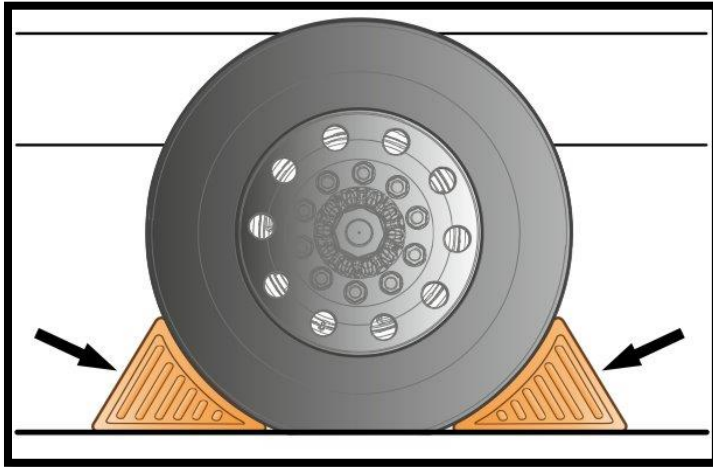
Parts Information

Part Numbers	Part Names	Quantity
24341567	Battery Hold Down Bracket	1

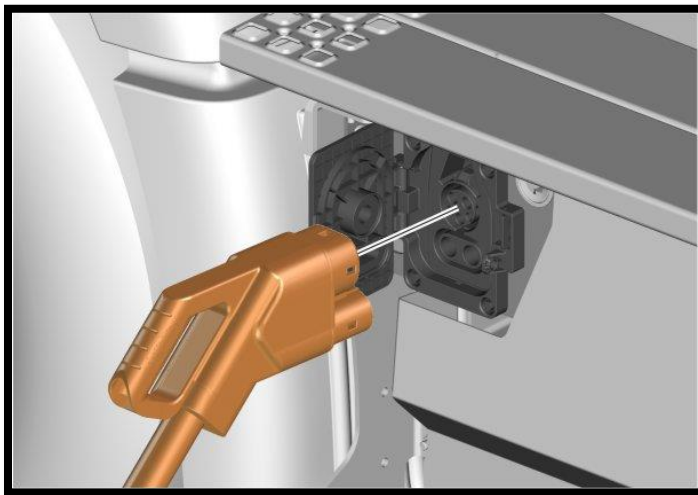
24-volt Battery Hold Down Bracket

Repair Procedure

- 1 Apply the parking brake.
- 2 Place the gear selector in neutral.
- 3 Remove the power key.
- 4 Safeguard the key.
- 5 Install the wheel chocks.

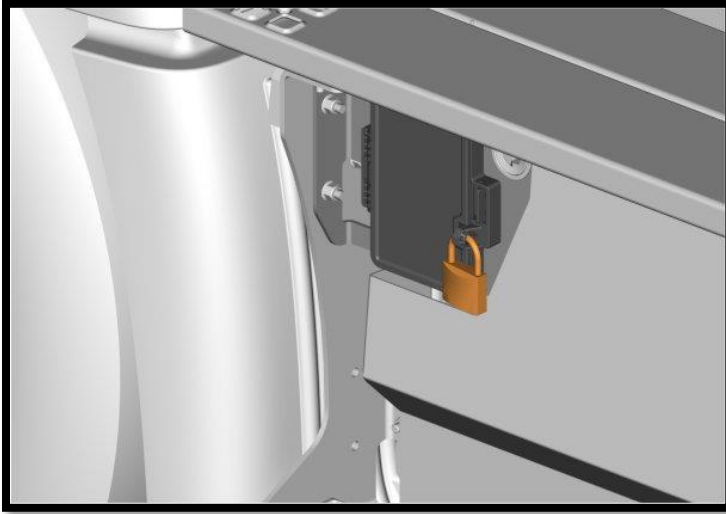


- 6 Disconnect all external power supply or charging devices.



24-volt Battery Hold Down Bracket

- 7 Lock the access to the CCS (Combined Charging System).

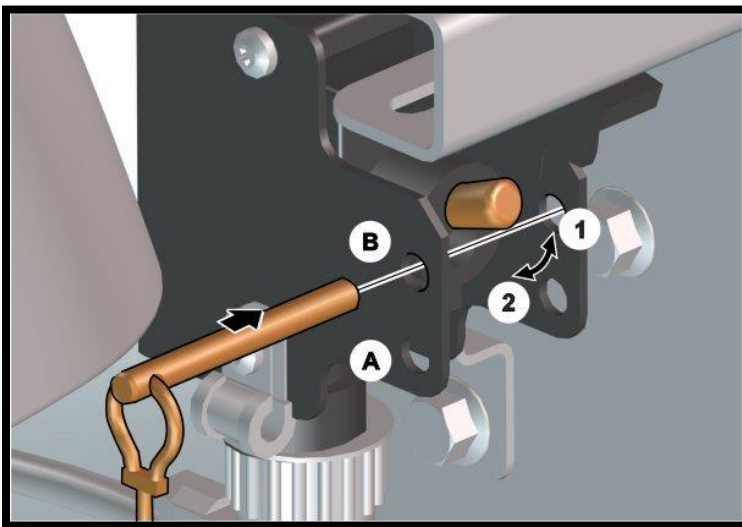


- 8 Set the chassis switch to position **(1)**.

Switch, position

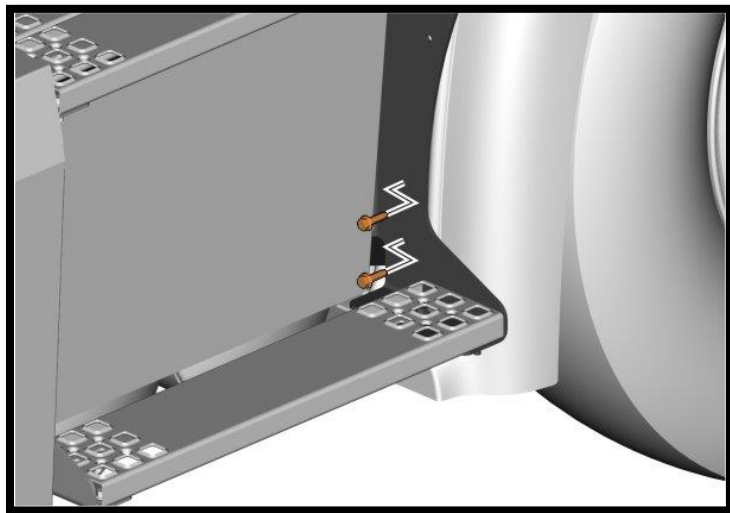
Position	Status
1	OFF
2	ON

- 9 Remove the safety pin from the slot **(A)** and install in the slot **(B)**.



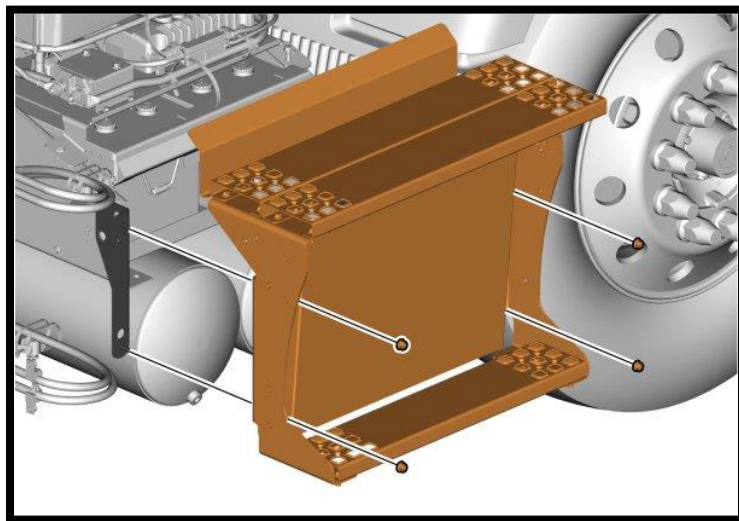
24-volt Battery Hold Down Bracket

- 10 Remove the screws.



- 11 Remove the nuts.

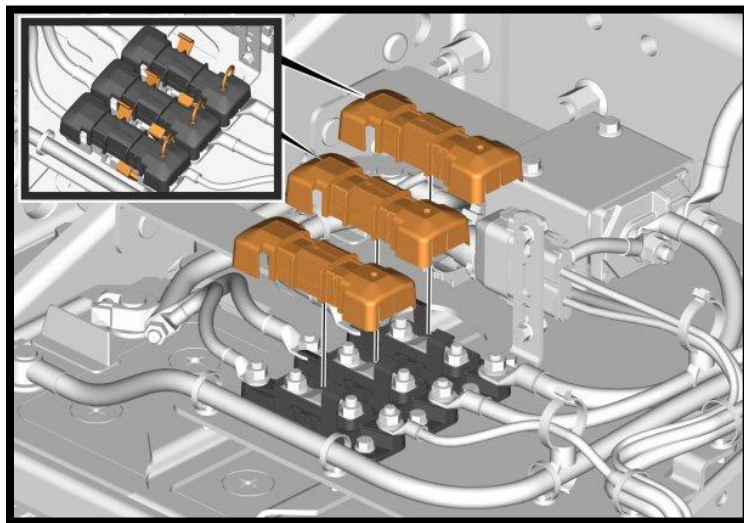
- 12 Remove the assembly.



24-volt Battery Hold Down Bracket

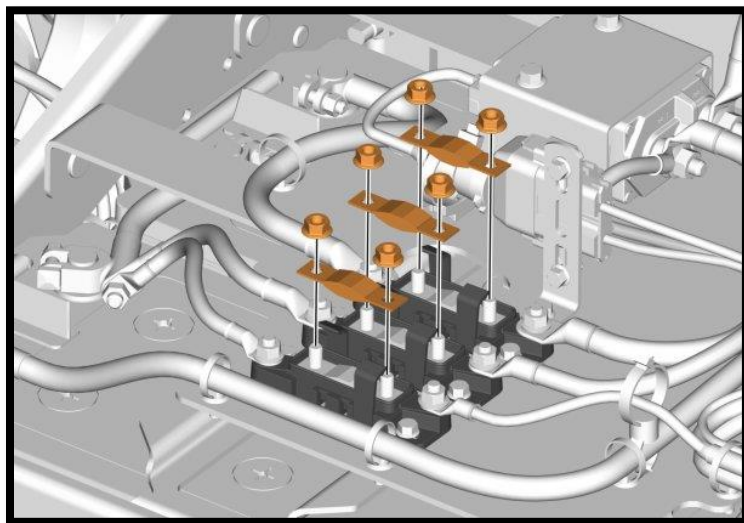
13 Release the clips.

14 Remove the covers.



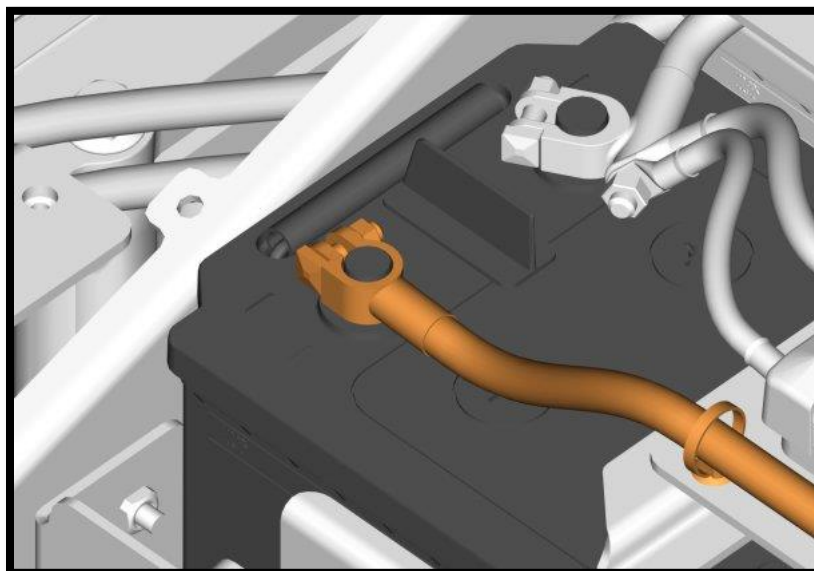
15 Remove the nuts.

16 Remove the fuses.

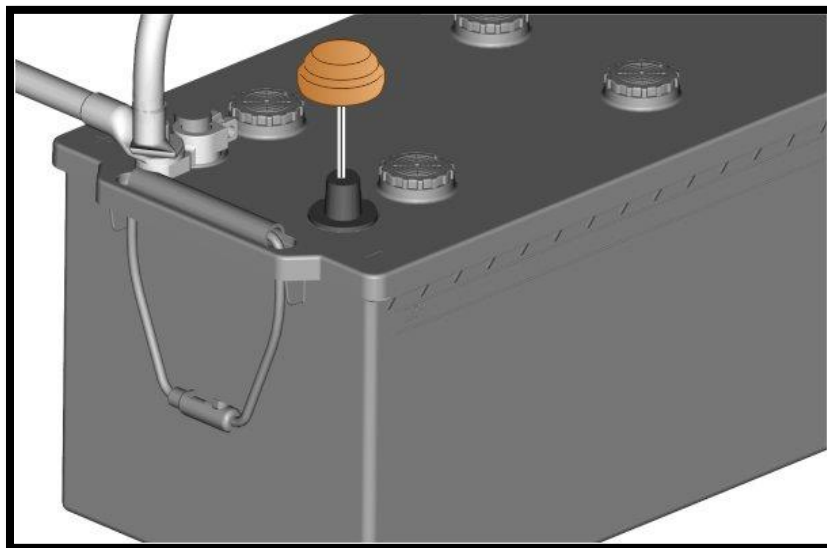


24-volt Battery Hold Down Bracket

- 17 Disconnect the cable from the negative terminal.

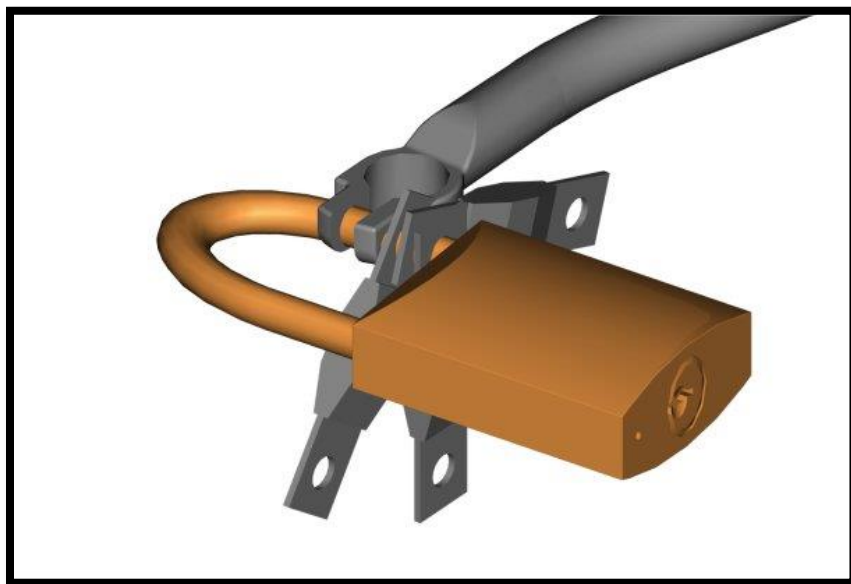


- 18 Install the plug.



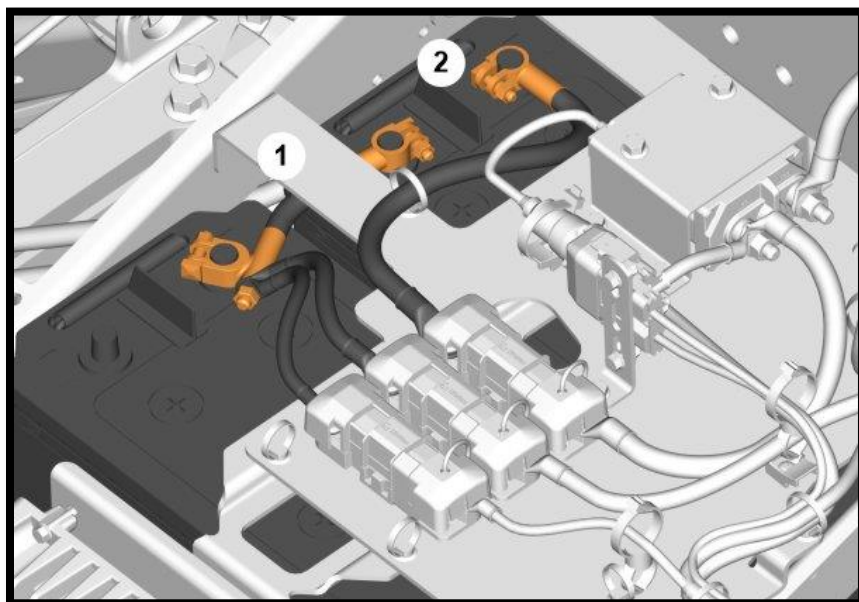
24-volt Battery Hold Down Bracket

- 19 Lock the negative terminal along with the fuses.



- 20 Loosen the nuts.

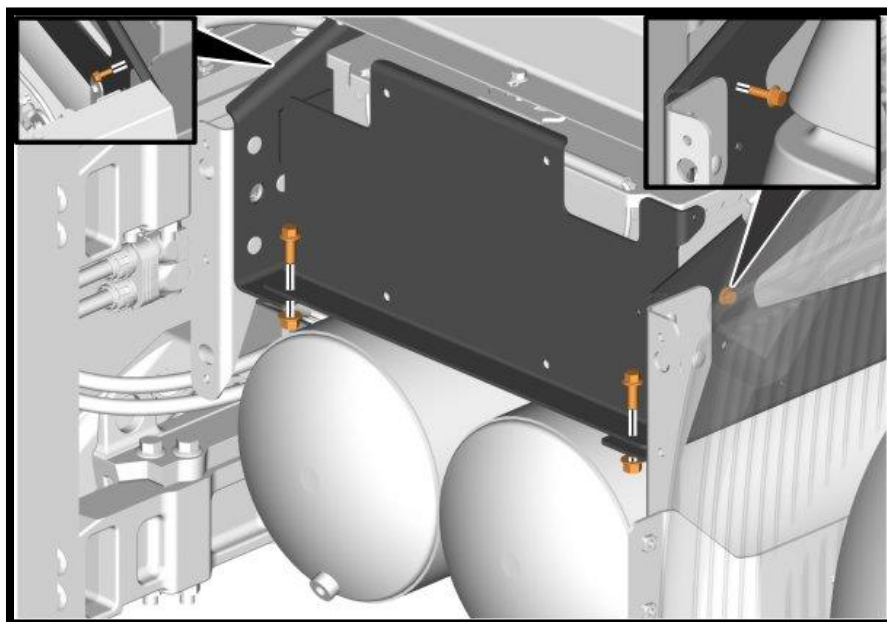
- 21 Remove the battery terminals (1) and (2).



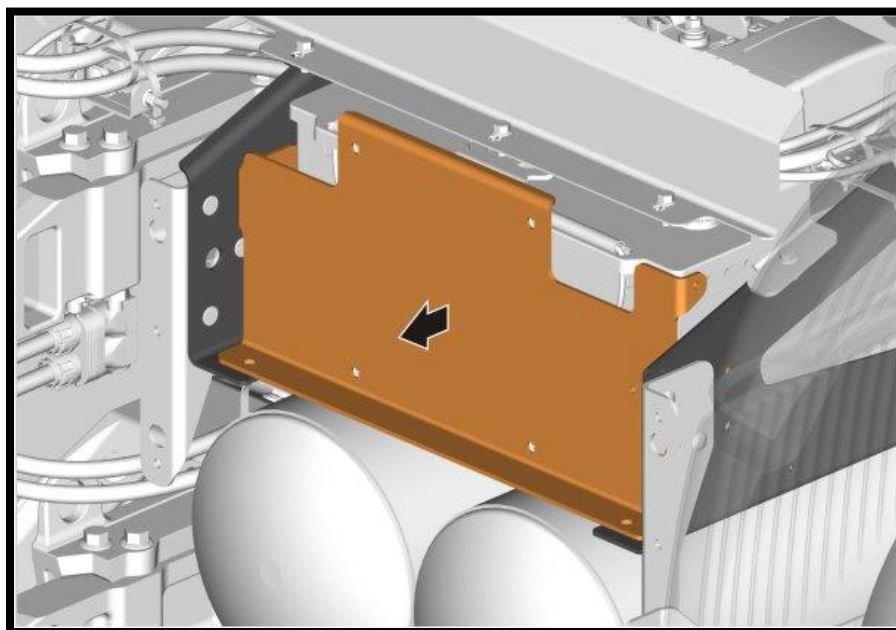
24-volt Battery Hold Down Bracket

22 Remove the screws.

23 Remove the nuts and screws.

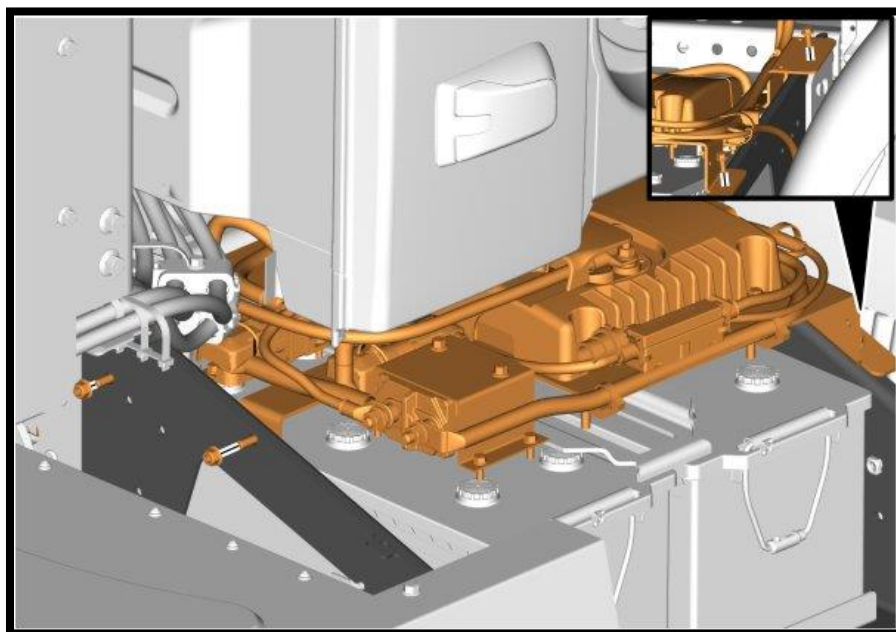


24 Remove the bracket.

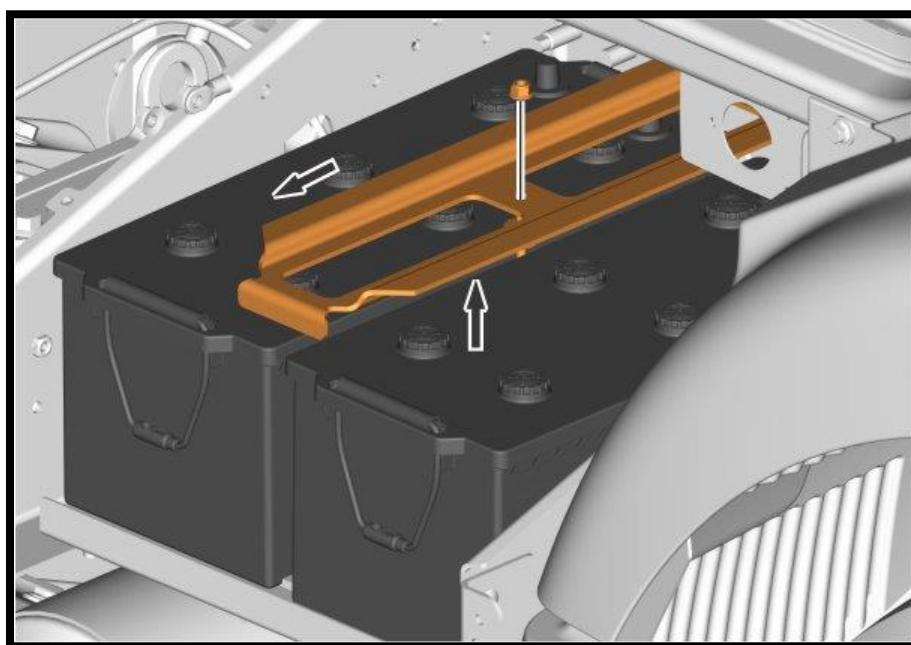


24-volt Battery Hold Down Bracket

- 25 Remove the screws.
- 26 Move aside the converter along with the bracket.



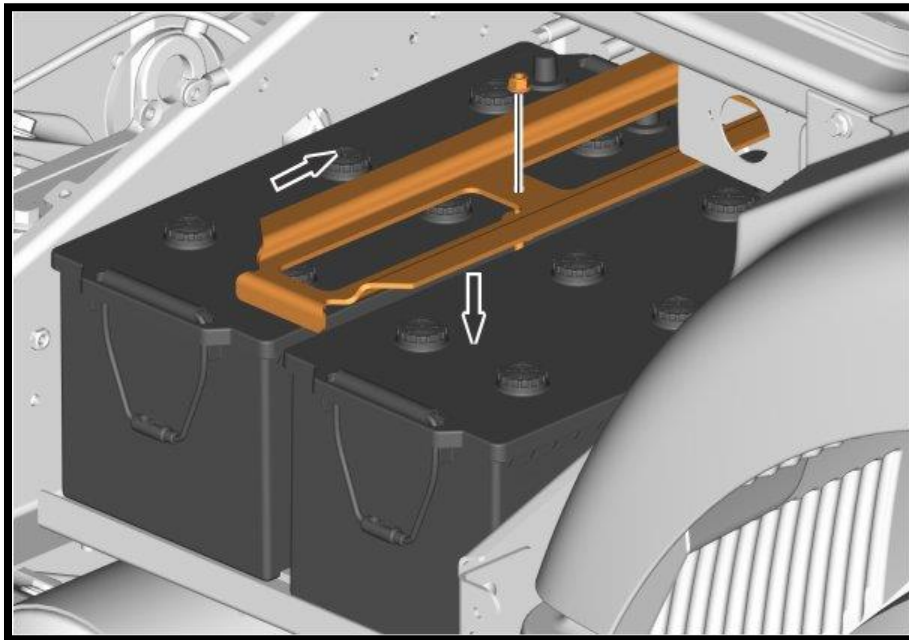
- 27 Remove the nut.
- 28 Remove the bracket and discard.



24-volt Battery Hold Down Bracket

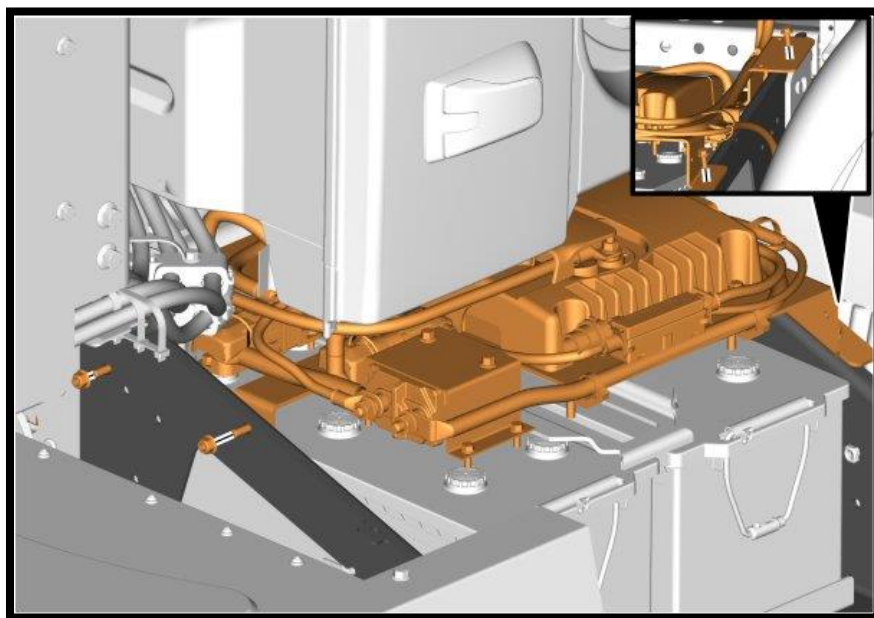
- 29 Install the new bracket P/N 24341567.
- 30 Position the screw.
- 31 Install the nut.
- 32 Torque tighten the nut.

Tightening torque	
Battery retainer, nut	Tightening sequence: Tighten the nuts between the batteries first.
	16 ±4 Nm (12 ±3 lb _f ·ft)

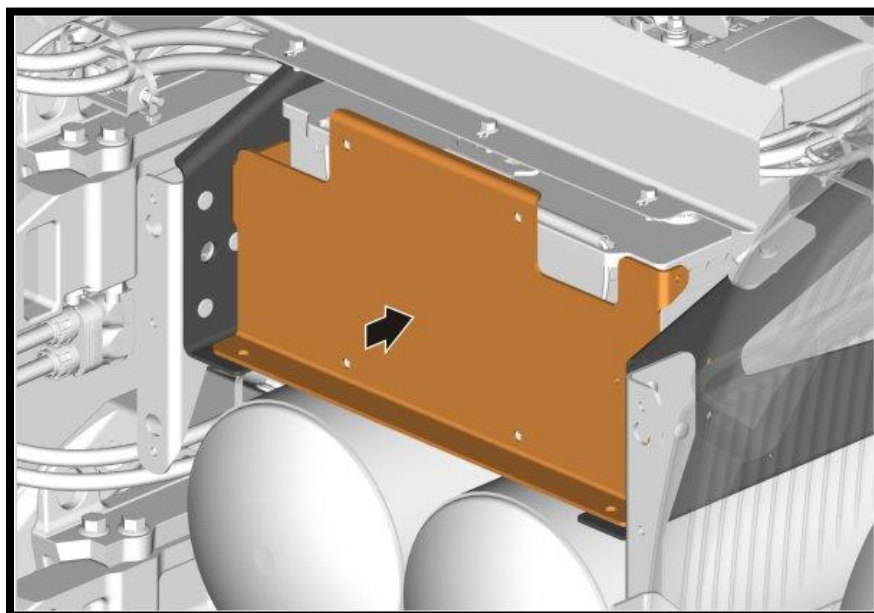


24-volt Battery Hold Down Bracket

- 33 Position the converter along with the bracket.
- 34 Install the screws.



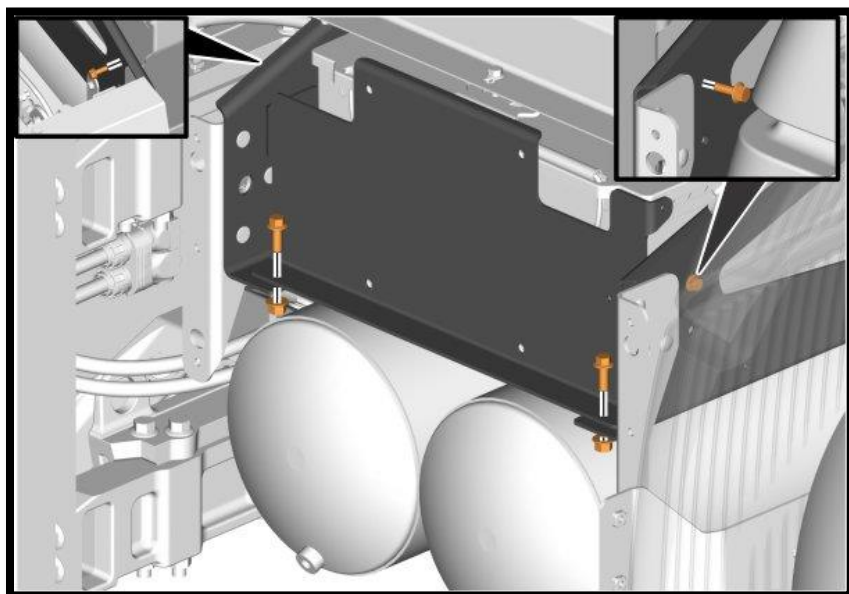
- 35 Install the bracket.



24-volt Battery Hold Down Bracket

36 Install the screws.

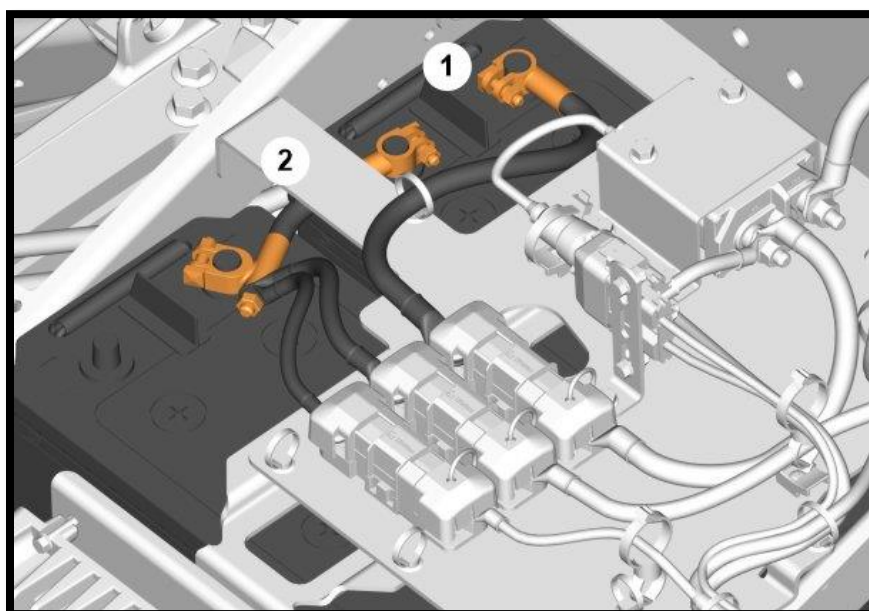
37 Install the screws and nuts.



38 Install the battery terminals (1) and (2).

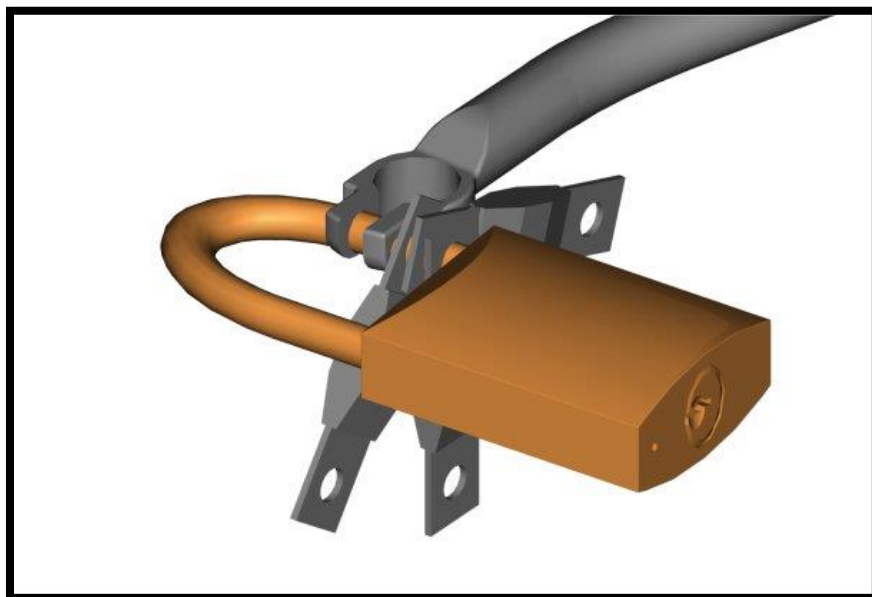
39 Torque tighten the nuts.

Tightening torque	
Cable terminal, nut	4.5 ±0.5 Nm (3 ±0.4 lb _r -ft)

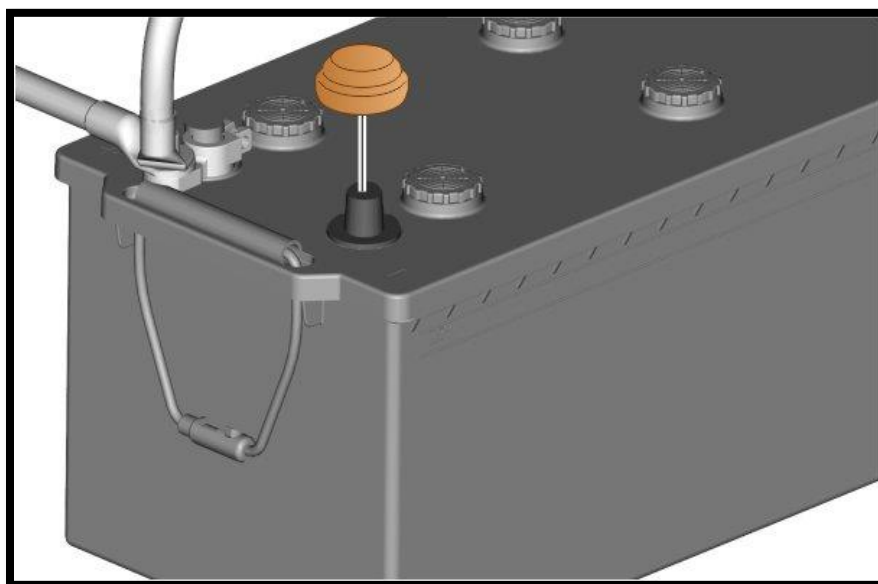


24-volt Battery Hold Down Bracket

- 40 Unlock the negative terminal along with the fuses.



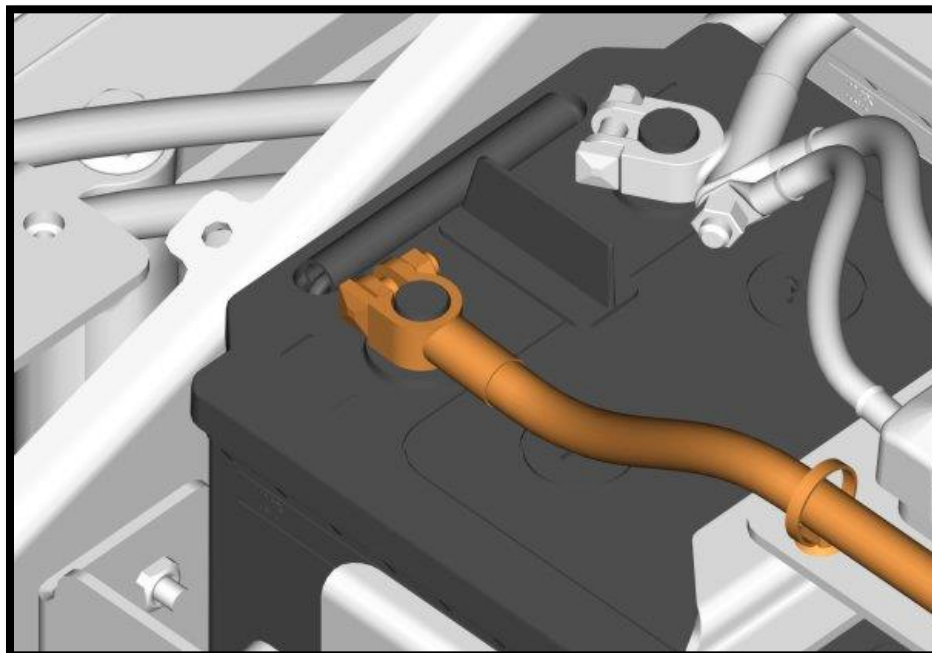
- 41 Remove the plug.



24-volt Battery Hold Down Bracket

- 42 Connect the cable to the negative terminal.
- 43 Torque tighten the nut.

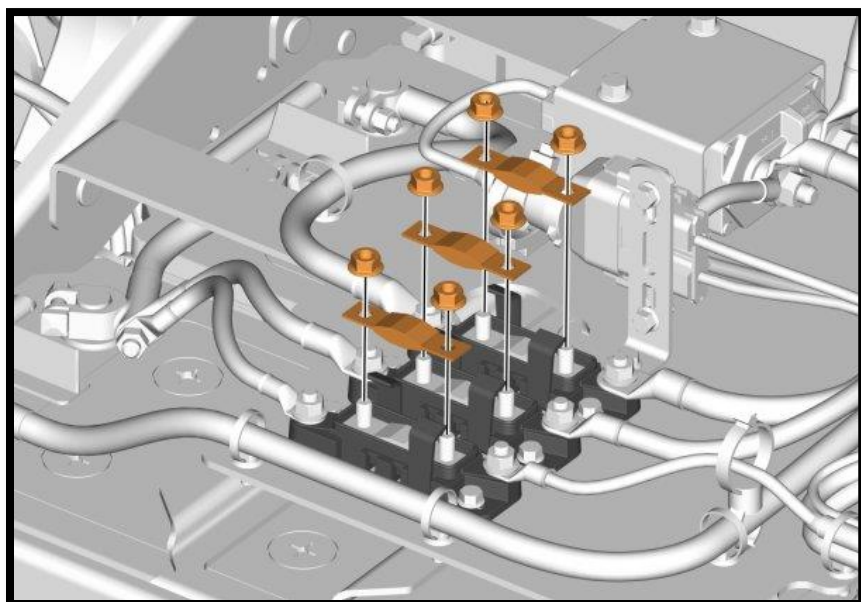
Tightening torque	
Cable terminal, nut	4.5 ±0.5 Nm (3 ±0.4 lbf·ft)



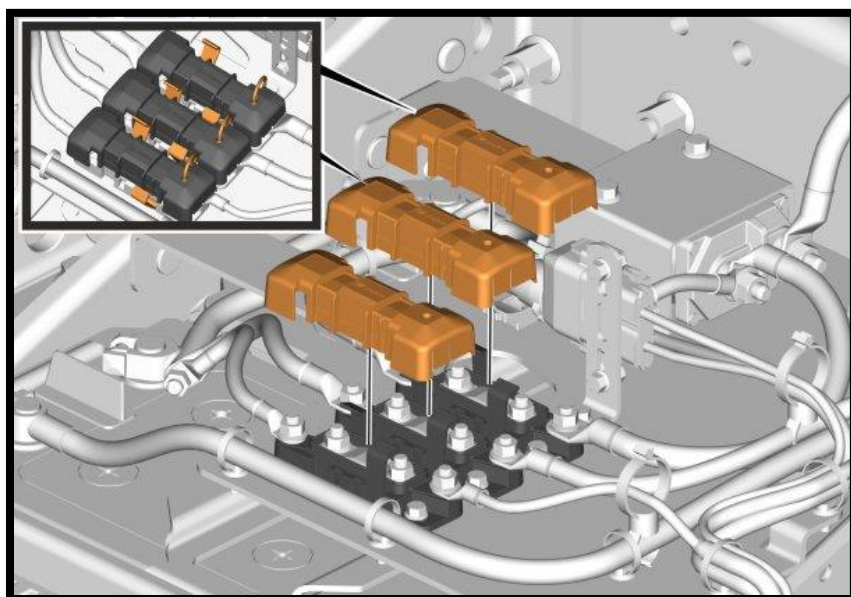
24-volt Battery Hold Down Bracket

- 44 Install the fuses.
- 45 Install the nuts.
- 46 Torque tighten the nuts.

Tightening torque	
Fuse, nut	15 ±3 Nm (11 ±2 lbf·ft)



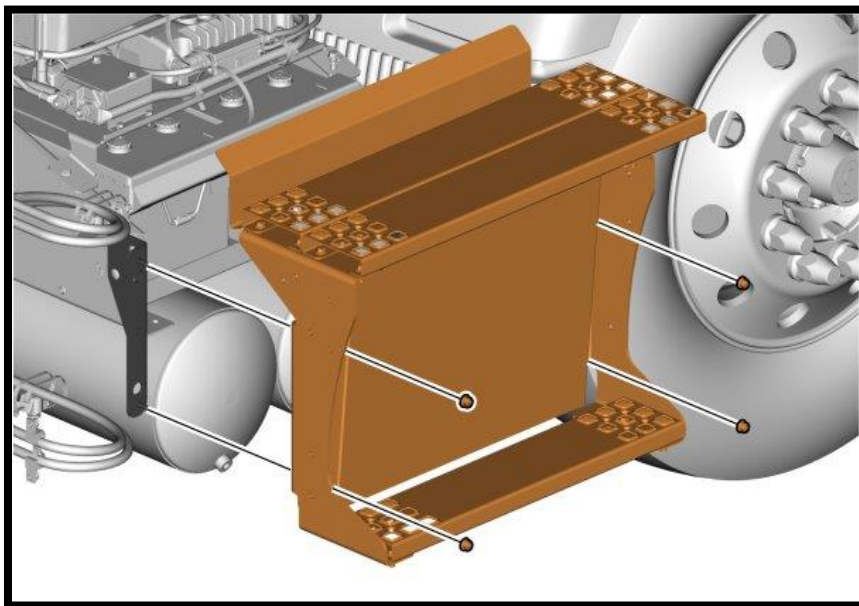
- 47 Install the covers.
- 48 Lock the clips.



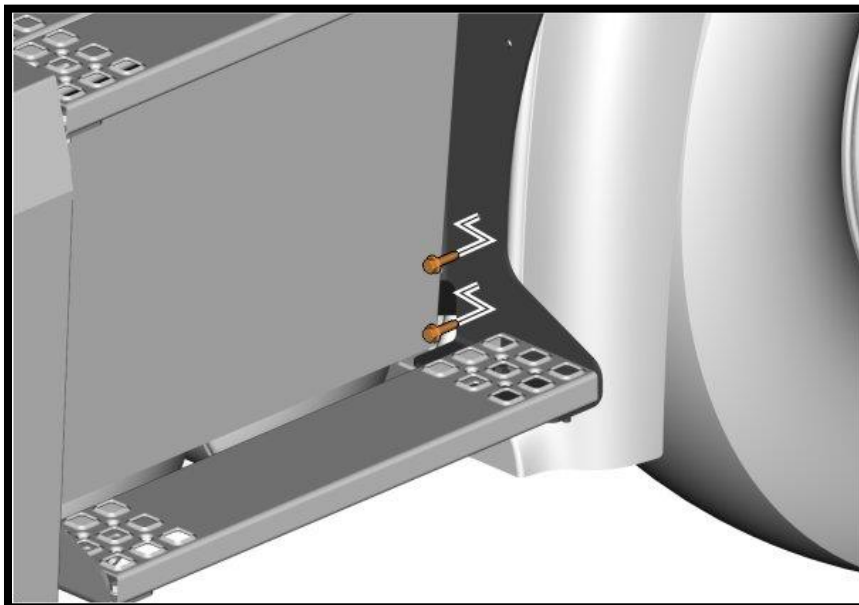
24-volt Battery Hold Down Bracket

49 Install the assembly.

50 Install the nuts.



51 Install the screws.



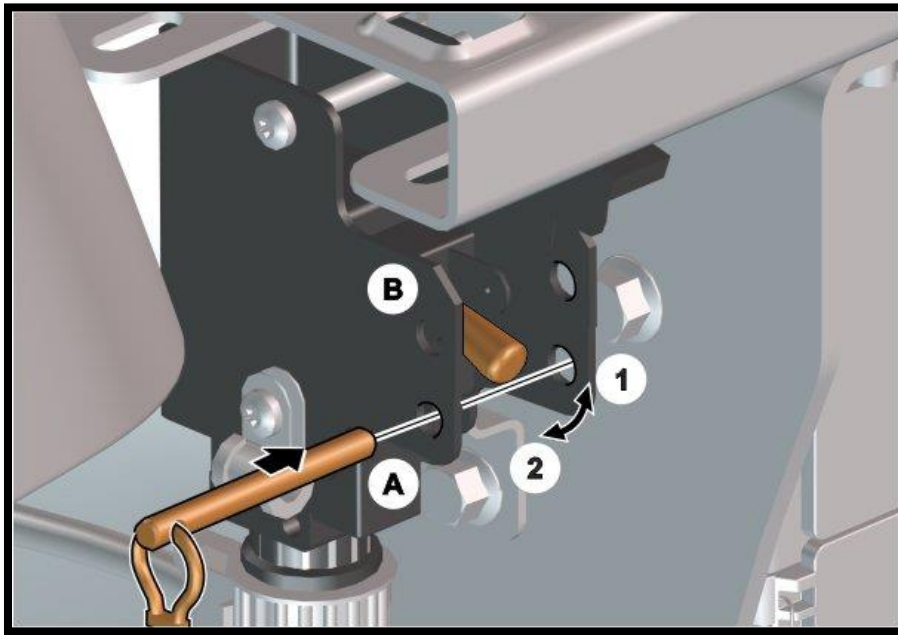
24-volt Battery Hold Down Bracket

52 Remove the safety pin from the slot **(B)** and install in the slot **(A)**.

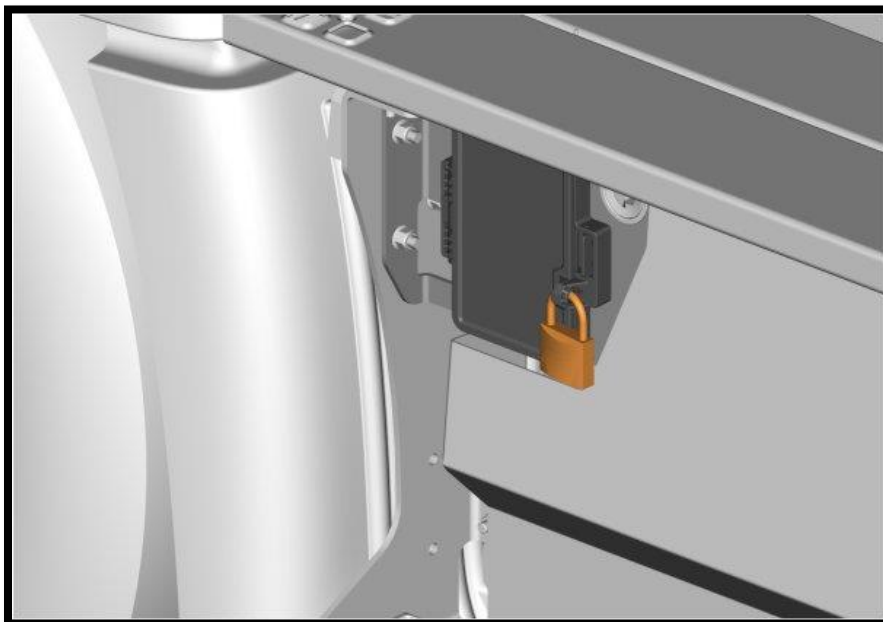
53 Set the chassis switch to position **(2)**.

Switch, position

Position	Status
1	OFF
2	ON

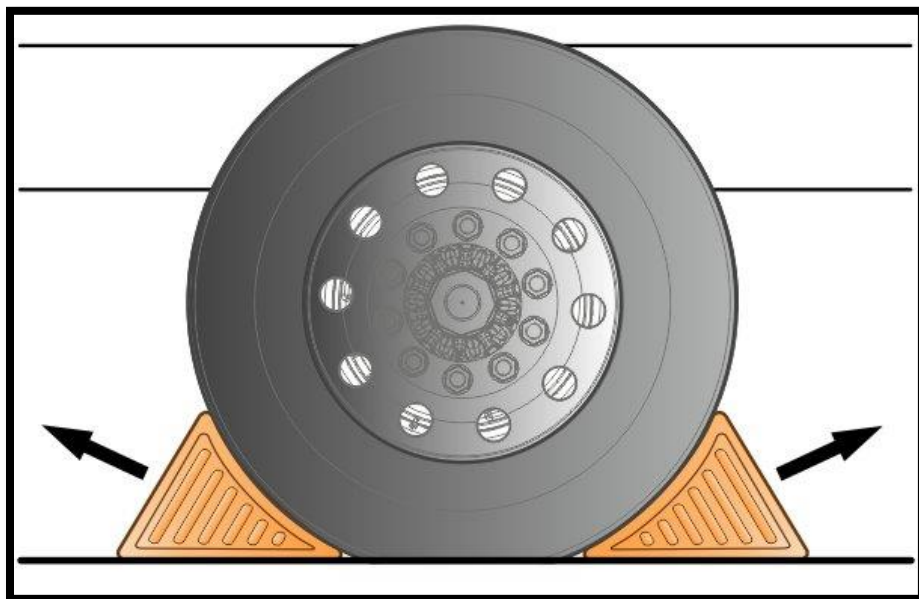


54 Unlock the access to the CCS.



24-volt Battery Hold Down Bracket

55 Remove the wheel chocks.



56 Release truck to service.