

SB-10055170-1508

Date 2.2014 Group **313** No. **004** Release **01** Page 1(12)

Stackable Battery Box, Premature Battery
Corrosion
VHD

FSB 313-004, Stackable Battery Box, Premature Battery Corrosion

(February 2014)

Changes have been made to the stackable 3 battery box used on certain Volvo VHD model chassis' from 2010–2013. This will improve the protection of the batteries from the environment therefore improving the condition of the battery terminals, cables, connections within the box in regards to corrosion.

Required Parts

Part #	Qty	Description	Application
22248322	1	Battery Shelf	VHD
22248326	1	Lower Hold Down	VHD
22248329	1	Lower Cover	VHD
21324949	1	Hold Down Bolt	VHD
22262398	1	Positive Jump Stud	VHD
21416154	1	Warning Label	VHD

Service personnel: Please circulate, read and initial

Service Manager	Warranty Administrator	Workshop Foreman	Service Technicians						

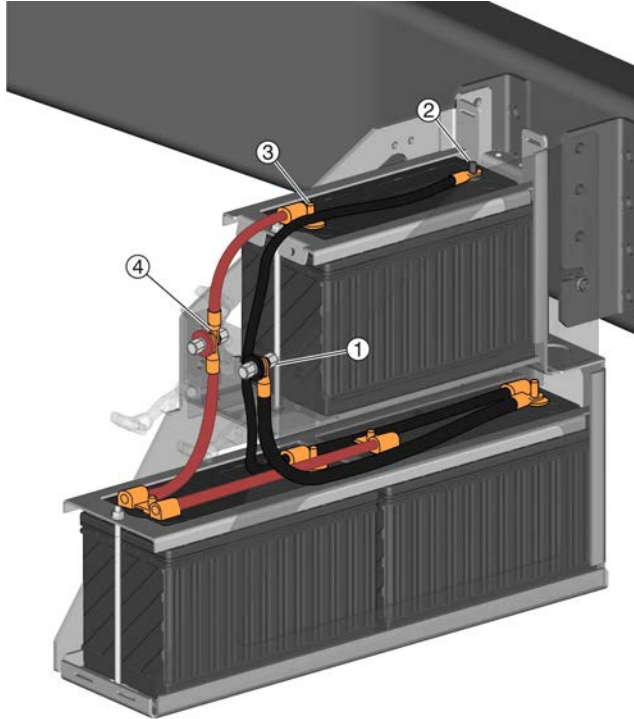
Repair procedure

Note: Information is subject to change without notice.
Illustrations are used for reference only, and may differ slightly from the actual engine version. However, key components addressed in this information are represented as accurately as possible.

You must read and understand the precautions and guidelines in Service Information, Function Group 30, "General Safety Practices, Electrical and Electronics" before performing this procedure. If you are not properly trained and certified in this procedure, ask your supervisor for training before you perform it.

- 1 Secure the vehicle for service by parking it on a flat level surface, applying the parking brake, chocking the rear wheels, and placing the transmission in neutral.
- 2 Turn the battery disconnect switch off (If applicable).
- 3 Remove the driver side top step.
- 4 Remove the upper and lower battery box covers.
- 5 Steam clean and blow dry (using an air nozzle) the cables, batteries and battery box assembly.
- 6 Remove the driver side fender extension attached to the battery box.
- 7 Cut and remove battery cable ties anchoring leads to upper battery hold down.

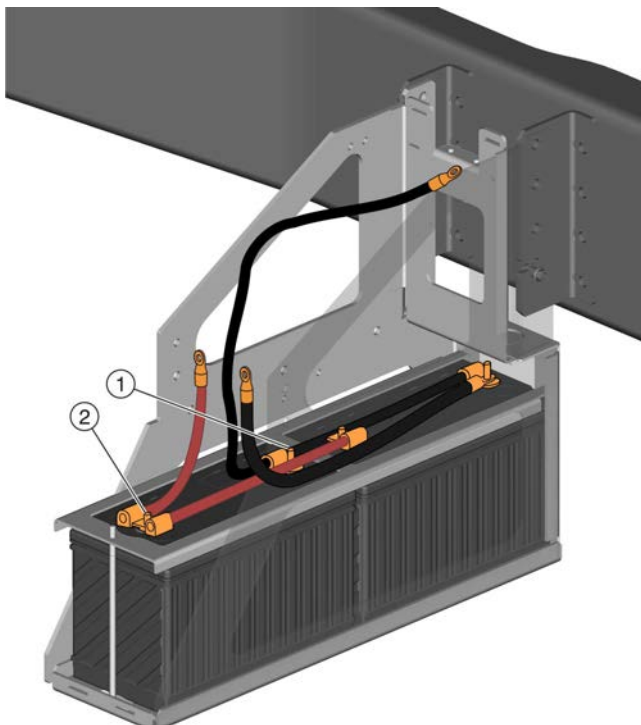
- 8 Disconnect the upper battery cables in order. Tape or cover each battery cable terminal as it is disconnected.



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- 9 Remove upper battery hold down and fastener.
- 10 Remove upper battery from tray. Ensure cab air bags are aired up to allow sufficient clearance to work.

- 11 Disconnect the lower battery cables in order. Tape or cover each battery terminal as it is disconnected.

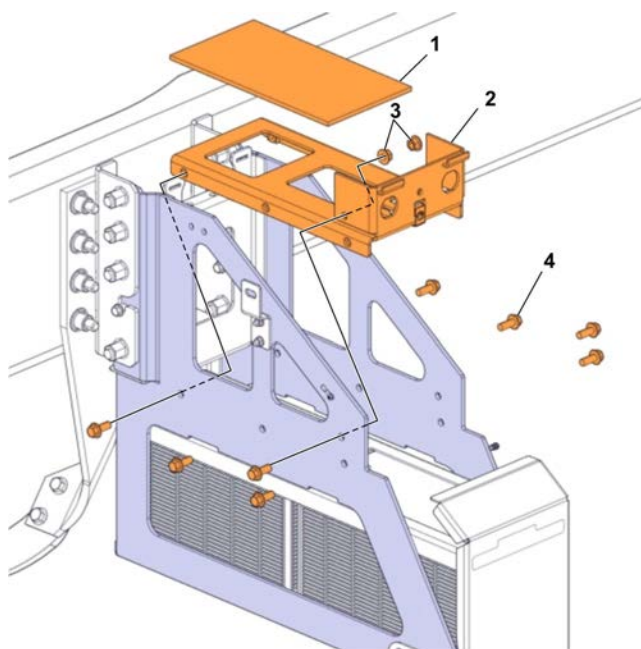


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- 12 Remove lower battery hold down and fasteners. Remove both batteries.

13 Remove upper battery support shelf.

- a. Remove the mat (1).
- b. Remove both jump studs.
- c. Remove the shelf and discard (2).



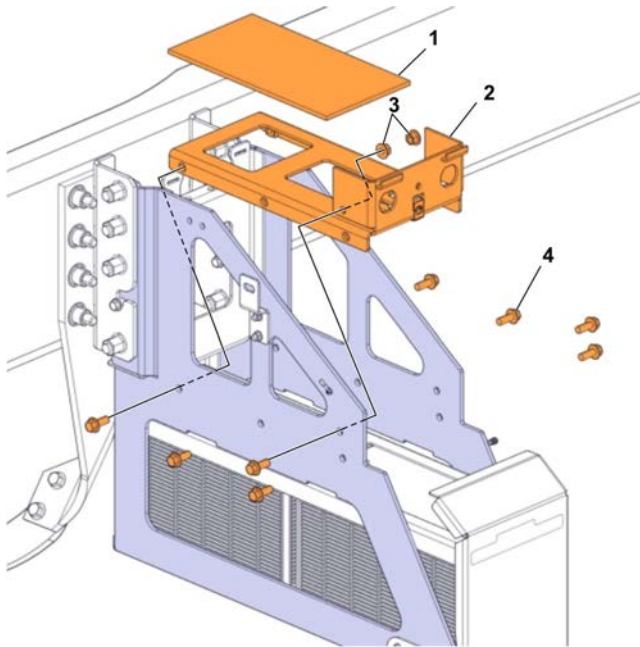
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14 Install the new upper battery support shelf (part # 22248322).

- a. Install both jump studs (Original Negative(-) and New Positive(+)) (part # 22262398)

Note: Do not over tighten plastic nut. Hand tighten only.

- b. Install replacement upper battery shelf (2).
- c. Install original mat (1).

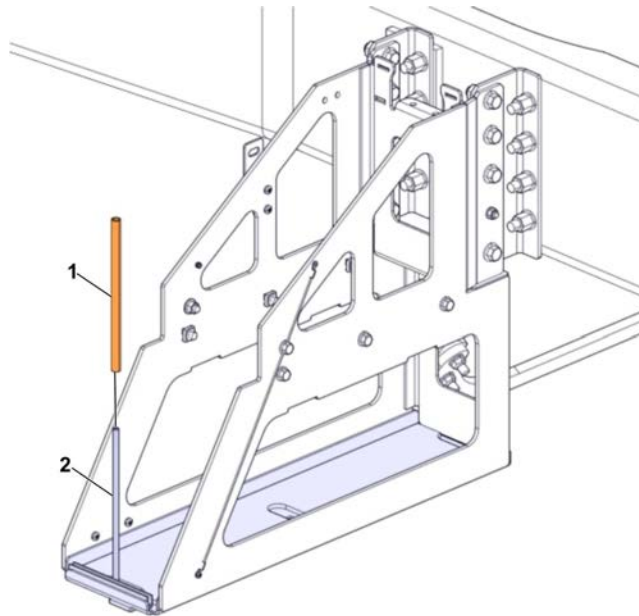


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15 Recheck the cleanliness of the battery box and make certain it is clean and dry.

16 Install tubing on hold down bolt(part # 21324949)(Outside lower).

- a. Obtain a length of 3/8" air tubing.
- b. Cut to an approximate length of 216 mm (8.5 inches).
- c. Slide the tubing over the new longer hold down bolt.

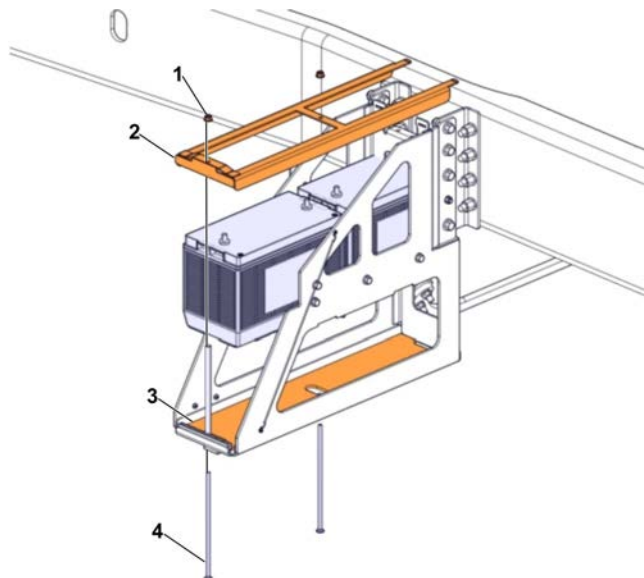


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1. Tube
2. Battery Hold Bolt

17 Install the lower mat, both lower batteries and the replacement battery hold down (part # 22248326).

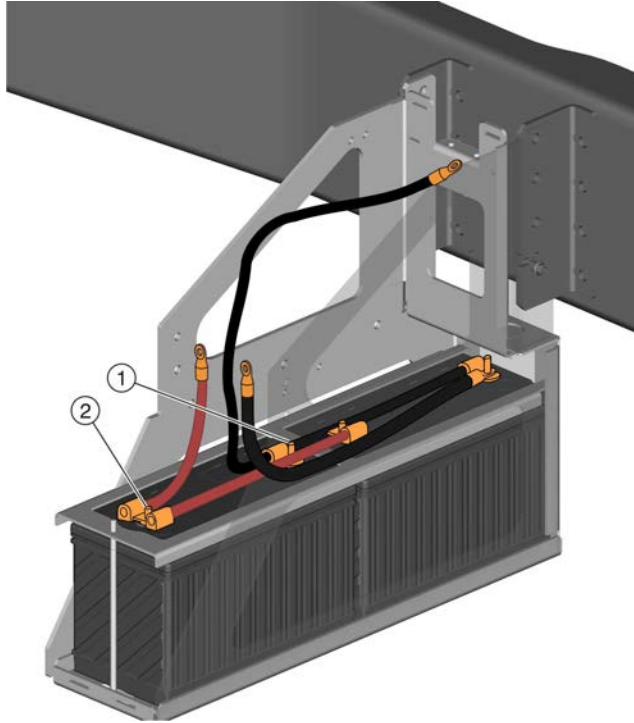
Torque the hold down fastener to 9.5 Nm (7 ft/lb).



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1. Nut
2. Battery Hold Down
3. Mat
4. Stud

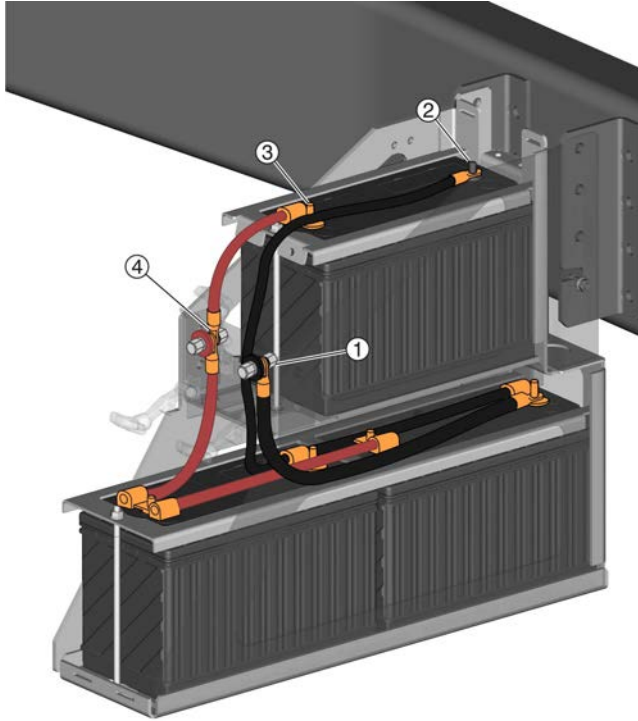
- 18 Remove the tape or covers from the lower battery cable terminals. Connect the cables in reverse order.



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- 19 Coat the lower battery connections with corrosion inhibitor or similar product.
- 20 Install the upper battery and hold down. Torque the hold down fastener to 9.5 Nm (7 lb/ft).

- 21 Remove the tape or covers from the upper battery cable terminals. Connect the cables in reverse order.

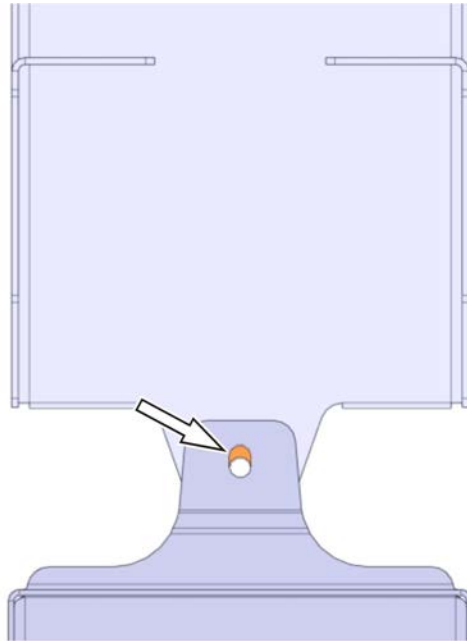


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- 22 Coat the upper battery cable connections with corrosion inhibitor or similar product.
23 Install cable ties as needed to secure the battery cables.

24 Modify the upper battery box cover as follows:

- a. Place the new lower cover (part # 22248329) over the upper cover, as if positioned on the box.
- b. Place the lower cover (oblong hole) over top of the (hole) in the upper cover so that the oblong is mostly located above the hole.
- c. Scribe the inside oblong shape onto the upper cover.
- d. File the cover to same shape hole as lower cover.



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25 Install the upper and lower battery box covers. (Attach tethers, if applicable).

26 Install warning label (part # 21416154).

27 Install driver side top step.

28 Turn the battery disconnect switch on.

29 Check for proper operation of the electrical system.

30 Remove the wheel chocks.

Reimbursement

This repair may be eligible for reimbursement if a product failure was experienced within time and mileage limits of the applicable Warranty coverage. Reimbursement is obtained via the normal claim handling process.	
Claim Type (used only when uploading from the Dealer Bus. Sys.)	W
Labor Code	
Primary Labor Code	31305-0-01 1.4 hrs.
Causal Part	21689508

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