

Frame Rail Ground Stud
 VAH, VHD, VN

FSB 371-046, Frame Rail Ground Stud

(April 2014)

On certain Volvo Trucks built from 01/01/2010 to 3/28/2014 the main ground stud, located on the frame rail behind the battery box, may have improper torque. This improper torque may have allowed corrosion inhibitor to get between the ring terminals which may cause multiple Diagnostic Trouble Codes and/or intermittent issues.

To correct this problem, follow the procedure below:

Check

- 1 Secure the vehicle for service by parking it on a flat level surface, applying the parking brake, chocking the rear wheel, and placing the transmission in neutral.
- 2 Remove driver side fairing, if applicable.
- 3 Disconnect all cables from the negative (ground) battery terminals to prevent personal injury from electrical shock and prevent damage to electrical components.
- 4 Check torque of nut on ground stud.
 - * If ≥ 40 Nm (29.5 ft lb), **No further action required.** Proceed to step 5 of Repair B.
 - * If the nut is torqued to < 40 Nm (29.5 ft lb), proceed to repair section below.
- 5 If 3 or fewer terminals are present, go to **Repair A.**
- 6 If more than 3 terminals are present, go to **Repair B.**

Service personnel: Please circulate, read and initial

Service Manager	Warranty Administrator	Workshop Foreman	Service Technicians						

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.

Repair A

- 1 Remove the nut and cables from the ground stud.
- 2 Clean residual corrosion inhibitor and debris from all ring terminals and stud.
- 3 Reinstall the ring terminals and nut. Torque to 40 Nm \pm 6 Nm (29.5 \pm 4.5 ft lb).
- 4 Coat all connections with corrosion inhibitor or similar product.
- 5 Install all the previously removed cables to the negative (ground) battery terminals.
- 6 Install driver side fairing, if applicable.

Repair B

Required Parts

Quantity	Part Number	Description
1	983715	Nut (two may be required depending on vehicle build)
1	21650178	Buss Bar

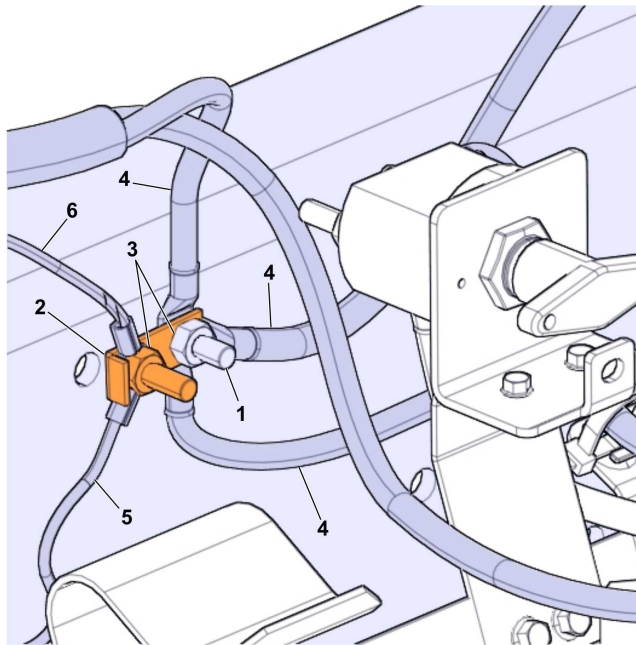
- 1 Remove the nut and cables from the ground stud.
- 2 Clean residual corrosion inhibitor and other debris from all ring terminals and studs.

- 3 Secure the cable at the frame rail ground stud.

Note: If more than 3 cables are located on this grounding point, use the 21650178 buss bar to re-allocate the other cables for a more even distribution.

Note: Install the buss bar if needed over the largest cables and secure. Tighten to 40 ± 6 Nm (29.5 ± 4.5 ft lb).

Note: Install the smaller cables on the buss bar stud and secure. Tighten to 12 Nm (9 ft lb).



W3084050

1. Ground Stud
2. Buss Bar
3. Nut
4. Battery Cables
5. Fusible Link
6. Chassis Ground

Note: If a washer is present on ground stud, discard and do not reuse.

Note: If adding buss bar check ring terminals for corrosion inhibitor and clean as necessary.

- 4 Coat all connections with corrosion inhibitor or similar product.
- 5 Install all the previously removed cables to the negative (ground) battery terminals.
- 6 Install driver side fairing, if applicable.

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 Check and Repair A	37126-0-01 0.3 hrs.
Primary Labor Code Check and Repair B	37126-0-02 0.4 hrs.
Causal Part	983716

Volvo Trucks North America engages in a comprehensive program of testing and evaluating to provide the best possible product. Volvo Trucks North America however, is not committed to, or liable for updating existing vehicles.