

**09/27/2024
CAL FTL 08-002**

Subject: Check Torque of Inverter High Voltage Cable Connections

Make: Freightliner

Model: eCascadia

Model Year Affected: 2023-25

Build Date Range: Selected Vehicles Built Between October 24, 2022, and February 5, 2024.

Our records indicate that you are the owner of certain vehicles; therefore, DTNA has decided to share the following documentation with you.

Please see the attached communication in this email. We hope you find this information helpful.

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Work Instruction

Danger: Service and repair of an electric vehicle should only be performed by technicians that have completed HV3 Daimler Safety Training. To prevent personal injury or death, or damage to the electric system, do not attempt repairs yourself.

Danger: Decommission the vehicle and verify the high voltage system is shut down. Failure to follow these steps could result in serious personal injury or death.

1. Park the vehicle on a level surface, place the vehicle in neutral, shut down the vehicle, and set the parking brake. Chock the tires.
2. Decommission the vehicle. For instructions, see Chapter 2: Group 08 Electric Drive; Section 2.8: Commissioning and Decommissioning in the *eCascadia Workshop Manual*.
3. Open each inverter access cover.
4. Tighten each cable connection fastener 17 lbf-ft (23 N·m). See **Fig. 1** and **Fig. 2**.
5. Record whether each connection reaches the tightening torque without turning (Y/N). If it turns, note how far. Fill out the table on the following page and return it with the warranty claim.
6. Use a silicone-based lubricant on the O-ring to ensure it seals properly when reinstalling the inverter access cover. See **Fig. 4** and **Table 1**.
 - If an O-ring is damaged, replace it with part number 66-34040-000. See **Fig. 3**.

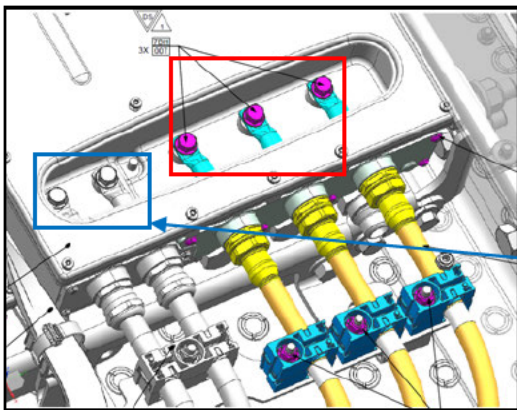


Fig. 1 AC Cable Connections at Inverter

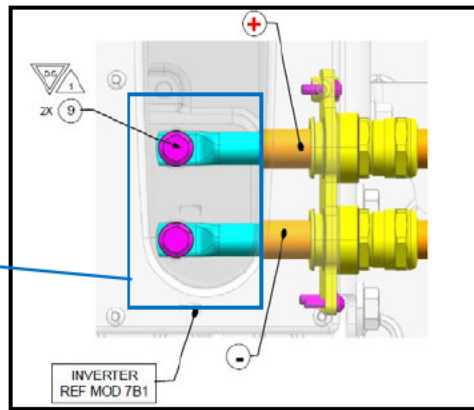


Fig. 2 DC Cable Connections at Inverter



Fig. 3 O-ring



Fig. 4 Lubricant

7. Using a torque wrench, verify the bolt on each of the battery HV connectors is 17 lbf-ft (23 N·m). See **Fig. 5**.

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<p>Record if each connection reaches 17 lbf-ft (23 N-m) tightening torque without turning (Y/N)</p>						
<p>If bolt turns, note how far before reaching torque (ie. 1/4 turn, 1/2 turn, full turn?)</p>						
<p>Connection</p>	1	2		3	4	5
<p>Inverter 1</p>						
<p>Inverter 2</p>						
<p>Inverter 3</p>						

Table: 1 Recording Torque

Fig. 5 Inverter to Battery

Fig. 6 Battery to Battery

Fig. 7 DC Box to Battery

A. Ensure Fasteners are tightened to 17 lbf-ft (23 N-m)

Table: 2 Check the Torque on All the HV Battery Cable