

05/01/2024  
CAL FTL 54-027

## Subject: New Cascadia Vehicles Equipped With D-Climate P4 Ground Cable Anti-Corrosion Sealer Issue

**Make:** Freightliner

**Model:** New Cascadia

**Model Year Affected:** 2020 to 2022

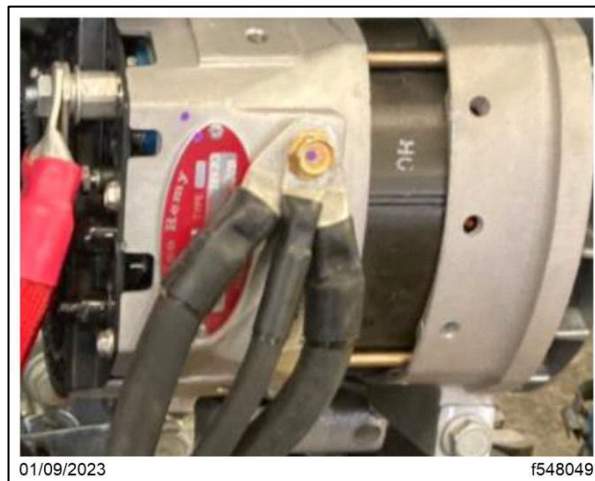
**Build Date Range:** Some vehicles built between July 8, 2020 through September 1, 2022.

Our records indicate that you are the owner of certain Freightliner 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.

### Issue

Some New Cascadia vehicles equipped with the D-Climate system have the ground cables installed on the alternator body in a manner as shown in [Fig. 1](#) that, once the spray is applied, it can interfere with the optimal grounding. See [Fig. 2](#). A further improved configuration will be described below and shown in [Fig. 3](#).



**Fig. 1, Ground Cables Mounted on the Alternator**

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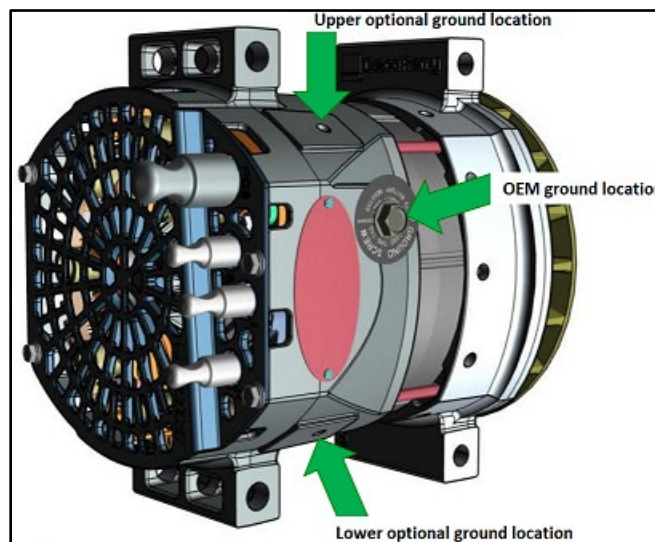
## Work Instructions

1. Park the vehicle on a level surface, shut down the engine, and apply the parking brakes. Chock the tires.
2. Disconnect the batteries.
3. Remove the ground cable mounting screw on the alternator case. Remove the red dielectric paint from the mating surfaces with an acceptable cleaner as shown in **Fig. 2**.



**Fig. 2, Corrosion Sealer Applied on the Ground Cable Mounting Eyes**

4. Install the D-Climate ground cable removed previously onto the lower optional ground location as shown in **Fig. 3**.



**Fig. 3, Delco Remy 40SI Ground Locations**

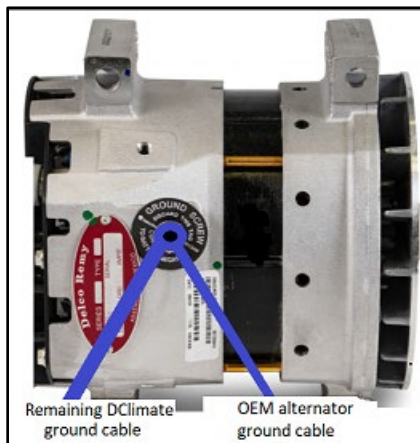
5. Retain the cable with a butterfly clamp as shown in **Fig. 4**.

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**Fig. 4, Installation of Ground Cable at Lower Optional Ground Location**

6. Install the two remaining ground cables, including the original OEM alternator ground cable and D-Climate ground cable onto the OEM grounding location. Ensure that both cable eyelets are fanned out to allow full contact of the cables with the alternator case as shown in [Fig. 5](#).

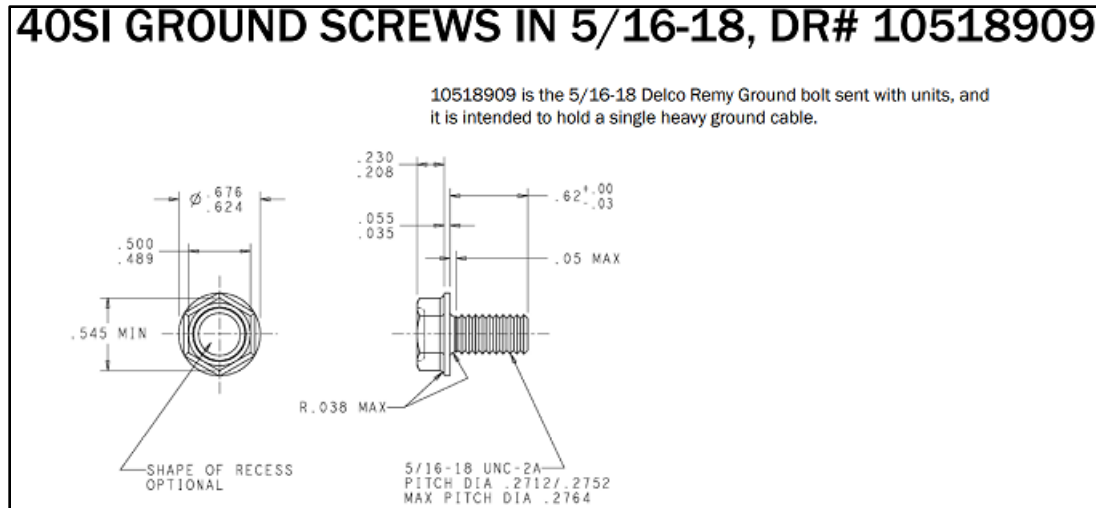


**Fig. 5, Installation of D-Climate Ground Cable and OEM Alternator Cable**

7. Install the ground cables in both locations with the correct Delco Remy approved fastener as shown in [Fig. 6](#). As a reference, 0.625 equals to 5/8". The 0.62 dimension of DR 10518909 is intended for the original OEM signal ground cable only, and may have been discarded in favor of a longer fastener when three cables were stacked onto the center OEM alternator ground location. If a non-DR approved dimension fastener is present, discard it.

**Note:** If an excessively long fastener is installed in any of the three grounding locations, damage to the stator may result as Delco Remy 40SI alternator grounding locations are 'through holes' rather than 'blind holes.'

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**Fig. 6, Delco Remy Approved Fastener DR 10518909**

8. Tighten the capscrews (DR 10518909) in both the grounding locations 60 to 90 lbf·in (678 to 1017 N·cm).