

09/12/2023
CAL FTL 54-031

Subject: Towing Related to Low Coolant Faults

**Models Affected: New Cascadia vehicles built from
September 9, 2019, through December 31, 2023.**

Our records indicate that you are the owner of certain New Cascadia vehicles, which are experiencing a false low coolant fault code, and 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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General Information

Certain Detroit Diesel powered New Cascadia vehicles are experiencing a 111/1 low coolant fault code without an accompanying 111/18 low coolant fault code. Due to the unique design of the low coolant level sensor used in this application, maturity of a 111/1 code without a 111/18 code typically indicates an added resistance in the coolant level wiring circuit and not an actual low coolant level condition. This CAL provides instructions that can be used as a temporary measure to avoid engine shutdown and towing of units due to the false fault code.

Work Instructions

1. Park the vehicle on a level surface, shut down the engine, and set the parking brake. Chock the tires.
2. Inspect the coolant level in the surge tank and ensure the coolant level is not too low.

IMPORTANT: A check engine lamp (CEL) on the dash illuminates for a 111/4 code when the electrical connector is disconnected from the coolant level sensor. Unplugging of the coolant level sensor typically results in an active 111/4 code and eliminates the ability of the engine to monitor low coolant. A vehicle can be driven with an active 111/4 code, but it is important that the coolant level be maintained and checked daily.

3. Disconnect the electrical harness from the coolant level sensor, shown in [Fig. 1](#).

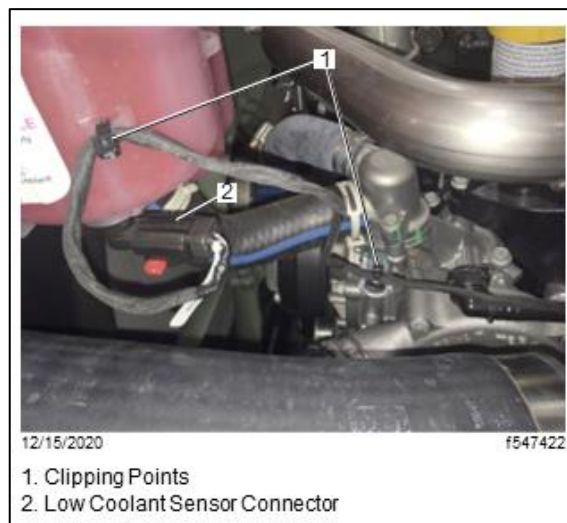


Fig. 1, Coolant Level Sensor

4. As soon as possible, take the vehicle to an authorized Freightliner dealer to inspect the coolant level sensor and wiring.

For additional information regarding the coolant level sensor and wiring, see **Freightliner Service Bulletin 54-337 - Coolant Level Sensor Wiring Repair**, and **Section 2.17, Subject 004** of the *New Cascadia Electrical Systems and Troubleshooting Manual*.

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Fault Codes

- 111/1 → Engine coolant level very low
- 111/3 → Engine coolant level voltage above normal shorted high
- 111/4 → Engine coolant level circuit voltage below normal
- 111/18 → Engine coolant level low