



Technical Service Bulletin

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Cold Weather Fault Codes	

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Warranty Statement

The information in this document has no effect on present warranty coverage or repair practices, nor does it authorize TRP or Campaign actions.

Contents

Product Affected

- B6.7 CM2350 B121B
- B6.7 CM2450 B155B
- L9 CM2350 L116B
- L9 CM2450 L126B

Issue

Symptom:

- Units experiencing the fault codes below while operating at lower ambient air temperatures 0°C [32°F] either one or multiple fault codes may be present. Root cause of malfunction is **not** found during other steps of the trouble shooting tree.
- Fault Codes: 4729, 7233, 1866, 1228, 125, 153, 3361, 691, 742, 3542, 1896, 3382, 3389, 7232

Root Cause:

- Units that have been exposed to lower ambient air temperatures without a Cummins® approved winter front, will be more prone to creating icing or condensation in the components mentioned below.

- Components in the EGR and air handling system have been identified to be prone to having have icing, condensation or residue.
 - Air Handling System (charge air cooler, intake air throttle, air intake piping, intake manifold pressure)
 - EGR System (EGR differential pressure sensor, EGR valve, EGR crossover pipe).

Verification

- Verify that unit has been operating in lower ambient air temperatures less than or equal to 0°C [32°F] from fault code snapshot in INSITE™ electronic service tool.
- Note that ice and condensation may **not** be present during trouble shooting and maintenance operations due to higher temperatures in the service location. In most cases fault code status may become inactive, indicating this malfunction.

Resolution

- Inspect and clean any component that have icing, condensation, or residue on EGR and Air Handling components.
- If no trouble is found and the engine has been operating in sub-freezing temperature, direct the customer to the Operation of Diesel Engines in Cold Climates, Service Bulletin 3379009 (</qs3/pubsys2/xml/en/bulletin/3379009.html>). A winter front is recommended to reduce occurrences of this malfunction. A winter front will assist in reducing the time to increase the engine compartment temperatures. Operating with a winter front will reduce ice buildup prior to operation of EGR system and engine intake throttle actuator.
- Reference Radiator Shutter Assembly Procedure for guidelines on winter fronts. See corresponding Service Manual. Reference Procedure 008-049 in Section 8.

Document History

Date	Details
2020-5-13	Module Created
2020-5-14	Fixed hyperlink.
2021-3-1	Added B6.7 CM2450 B155B and L9 CM2450 L126B

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