



Technical Service Bulletin

Technical Service Bulletin: TSB200068	Released Date: 24-Mar-2020
Fault Code 2989 at High Engine RPM	

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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

- L9N CM2380 L124B
- L9N CM2380 L130B

Issue

Symptom:

- Fault Code 2989 comes active during vehicle operation.
- Reduced engine power.
- Troubleshooting is unable to identify the cause.

Root Cause:

- At certain combinations of engine speed and load, the engine ECM calibration is temporarily unable to supply desired airflow to the engine.

Verification

Installations which utilize high final drive ratios and operate at high vehicle speed will result in the engine operating at or near its governed RPM limit. Under these conditions, the rapid onset of a load, such as an increasing grade may cause fault code 2989 to become active.

Resolution

1. The best solution is to change the vehicle final gear ratio to better conform to the conditions under which it will be used, however it is understood that this is **not** always feasible.
2. Compare the engine control module (ECM) code and revision number to calibration revisions listed in the ECM Calibration Revision History on QSOL for applicable changes related to this issue.

Description of Change

A revised engine calibration exists which accommodates operation of the engine at extended high RPM and increasing load.

Customer Communication

A revised engine calibration exists which accommodates operation of the engine at high RPM and increasing load.

If extended operation at speeds which result in maximum engine RPM are expected, it is recommended that the vehicle final gear ratio be changed to reduce engine RPM at those speeds. A local Cummins® Distributor can provide guidance to optimize engine economy, efficiency, and performance.

Service Instructions

Normal troubleshooting should **always** be performed to make sure that the fault code is **not** based on a mechanical or sensor issue.

Upon completion of the calibration update, test drive the vehicle in the conditions under which the fault code was logged to confirm that the issue is resolved.

Service Parts Availability

An updated ECM calibration is available for Service. Use calibrations with revision date 13 February 2020 or later.

Service Tools and Training Available

The Cummins® recommended electronic service tool or equivalent is required to update the engine ECM calibration.

Production Status

Implemented for production. See Table 1.

Table 1, Production Information					
ESN First	Build Date ¹			Plant	
74641758	02 March 2020			RMEP	
¹ Engine build date can be found on the engine dataplate.					
Table 2, Publications Affected					
Manual Type	Engine	Bulletin Number	Procedure Title	Procedure	Section

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Manual Type	Engine	Bulletin Number	Procedure Title	Procedure	Section
Fault Code Troubleshooting Manual	L9N CM2380 L124B L9N CM2380 L130B	5467495	Engine Intake Air Mass Flow - Data Valid But Below Normal Operating Range - Moderately Severe Level	52-fc2989	TF

Document History

Date	Details
2020-3-20	Module Created

Last Modified: 24-Mar-2020
