



Technical Service Bulletin

Technical Service Bulletin:
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Additional Guidance for Misfire 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

- L9 CM2450 L126B

Issue Summary

Symptom:

- Misfire fault codes without any audible misfire or performance loss (false misfire):

Table 1, Misfire Fault Codes

Fault Code	Fault Description
5895	Engine Misfire Cylinder #1 - Root Cause Not Known
5896	Engine Misfire Cylinder #2 - Root Cause Not Known
5897	Engine Misfire Cylinder #3 - Root Cause Not Known
5898	Engine Misfire Cylinder #4 - Root Cause Not Known
5899	Engine Misfire Cylinder #5 - Root Cause Not Known

Table 1, Misfire Fault Codes	
Fault Code	Fault Description
5911	Engine Misfire Cylinder #6 - Root Cause Not Known
5914	Engine Misfire for Multiple Cylinders - Root Cause Not Known

Root Cause:

- The misfire diagnostic can be overly sensitive in certain conditions in some applications and can generate incorrect faults code. Running in PTO mode is particularly sensitive to these fault codes.

Verification

- Verify that one or more of the listed fault codes are active or inactive with more than one count within the last 25 engine operating hours.
- Verify there are no performance complaints with the unit.
- Run the injector performance test on the injectors. See corresponding Service Manual. Reference Procedure 014-014 in Section 14..

Resolution

- Do **not** replace injectors unless injector performance test results say to replace injector(s)
- Recommended to change the PTO speed to less than 2000 rpm if feasible. Changing the PTO speed can clear the false fault condition.
 - Run the vehicle in PTO mode to verify if the fault returns.
- Compare the ECM code and revision number in the ECM to the calibration revision listed in the ECM Calibration Revision History Database on QuickServe® Online (QSOL) for applicable changes. If an ECM calibration code update for this fault code is available, the ECM calibration code revision **must** be that revision or higher.
- Operate the engine within the “Conditions for Clearing the Fault Code” found in the Overview section of the troubleshooting procedure.

Document History

Date	Details
2023-3-23	Module Created

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