



Technical Service Bulletin

Technical Service Bulletin: TSB220250**Released Date: 07-Dec-2022****Fault Code 1883 or 5715 with Fault Code 1921, 1922, or 1981**

Fault Code 1883 or 5715 with Fault Code 1921, 1922, or 1981

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

- X12 CM2350 X119B
- X12 CM2450 X137B
- X15 CM2350 X114B
- X15 CM2350 X116B
- X15 CM2450 X124B
- X15 CM2450 X134B

Issue Summary

Symptom:

- Fault Code 1883 and/or 5715 active or has more than one inactive count within the last 25 engine operating hours along with Fault Code 1921, 1922, and/or 1981 active or has more than one inactive count within the last 25 engine operating hours.

Root Cause:

- Aftertreatment diesel particulate filter (DPF) differential pressure sensor is susceptible to moisture intrusion that can cause false occurrences of 1921, 1922, and/or 1981, which will lead to unnecessary aftertreatment DPF replacement.

Verification

- Use the recommended Cummins® electronic service tool or equivalent to read the fault codes.
- Fault Codes 1883 and/or 5715 active or has more than one inactive count within the last 25 engine operating hours.

- Fault Codes 1921, 1922, and/or 1981 active or has more than one inactive count within the last 25 engine operating hours.
- If the fault code does **not** return, no further troubleshooting is required. If Fault Code 1921, 1922, and/or 1981 return, complete the remainder of the troubleshooting steps.

Resolution

- If an ECM calibration code update for this fault code is available, the ECM calibration code revision **must** be that revision or higher.
- If fault codes are **not** active or do **not** have more than one inactive count within the last 25 engine operating hours, continue with published troubleshooting.
- If Fault Code 1883 and/or 5715 active or has more than one inactive count within the last 25 engine operating hours along with Fault Code 1921, 1922, and/or 1981 active or has more than one inactive count within the last 25 engine operating hours, perform the following steps:
 - Replace aftertreatment DPF differential pressure sensor. See corresponding Service Manual. Reference Procedure 019-443 in Section 19.
 - Inspect the aftertreatment DPF differential pressure sensor tubes for signs of damage, plugging, kinks, leakage, or loose connections. See corresponding Service Manual. Reference Procedure 011-047 in Section 11.
 - Reset the stored soot load in the engine control module (ECM). This can be performed by using the recommended Cummins® electronic service tool or equivalent to perform the Aftertreatment Maintenance Reset procedure under the Advanced ECM Data menu.
 - Use the recommended Cummins® electronic service tool or equivalent to perform an aftertreatment diesel particulate filter stationary regeneration.
 - If Fault Codes 1921, 1922, and/or 1981 do **not** return, release the unit.
 - If Fault Codes 1921, 1922, and/or 1981 return, proceed with the published troubleshooting.

Document History

Date	Details
2022-12-5	Module Created

Last Modified: 07-Dec-2022
