

Diagnostic Trouble Code (DTC) P2AB047 - US14+OBD16 Emissions And Newer



Begin by checking the version of Particulate Matter (PM) Sensor that is currently installed.

For older versions of PM sensor prior to the end of 2017 (part numbers 22835170, 22733524):

If both U0080 and P2AB0 are logged together, focus troubleshooting on U0080. The issue is very unlikely to be with the PM sensor itself and swapping the PM sensor is unlikely to fix the issue.

Typical causes of U008088:

- Open circuit on CAN-L
- Short circuit between CAN-H and ground or power
- Excessive resistance in CAN lines
- Short circuit between CAN-H and CAN-L
- Short circuit between CAN-L and power

For newer versions of PM sensor from 2018 onwards (part numbers 22946032, 23320447):

The association between U0080 and P2AB0 has been corrected. For trucks that log both of these faults at the same time, troubleshooting should address them separately.

CBR-2079 should be reviewed for further information concerning U0080 when the newer version of PM sensor is installed.



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Diagnostic Trouble Code (DTC) U008088 - US17+OBD16 Emissions And Newer



U008088 is a general Datalink 7 (DL7) CAN communications fault. It can be logged by either the Engine Control Module (EMS) or Aftertreatment Control Module (ACM) when there is an issue detected on the CAN line.

There is currently a software issue whereby U0080 is not consistently inhibiting DL7 communication faults, such as:

- U010C – Engine lost communication with turbo
- U029D or U029E – NOx sensor communication faults
- U02A3 – Particulate Matter sensor communication fault
- P1148 - Turbo lost communication with engine

If a vehicle has code U008088 showing as 'Active' on a DTC Readout:

1. Check for other active codes.

- **If there are no other active fault codes:** Follow Guided Diagnostics for U008088 for an open or shorted communication circuit.
- **If any of the communication faults listed above are 'Active' at the same time as U0080:** They SHOULD NOT be used for fault tracing. These faults are coming up in error.

This solution will be updated when more information is available.

If a vehicle has code U008088 showing as 'Inactive' on a DTC Readout:

1. Check for other active codes.

- **If any of the communication faults listed above are 'Active' while U0080 is 'Inactive':** These faults are real. Troubleshooting SHOULD be performed on the communication faults.
- **If any of the communication faults listed above are also 'Inactive':** They SHOULD NOT be used for fault tracing. These faults have come up in error.

Typical causes of U008088:

- Open circuit on CAN-L
- Short circuit between CAN-H and ground or power
- Excessive resistance in CAN lines
- Short circuit between CAN-H and CAN-L
- Short circuit between CAN-L and power

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