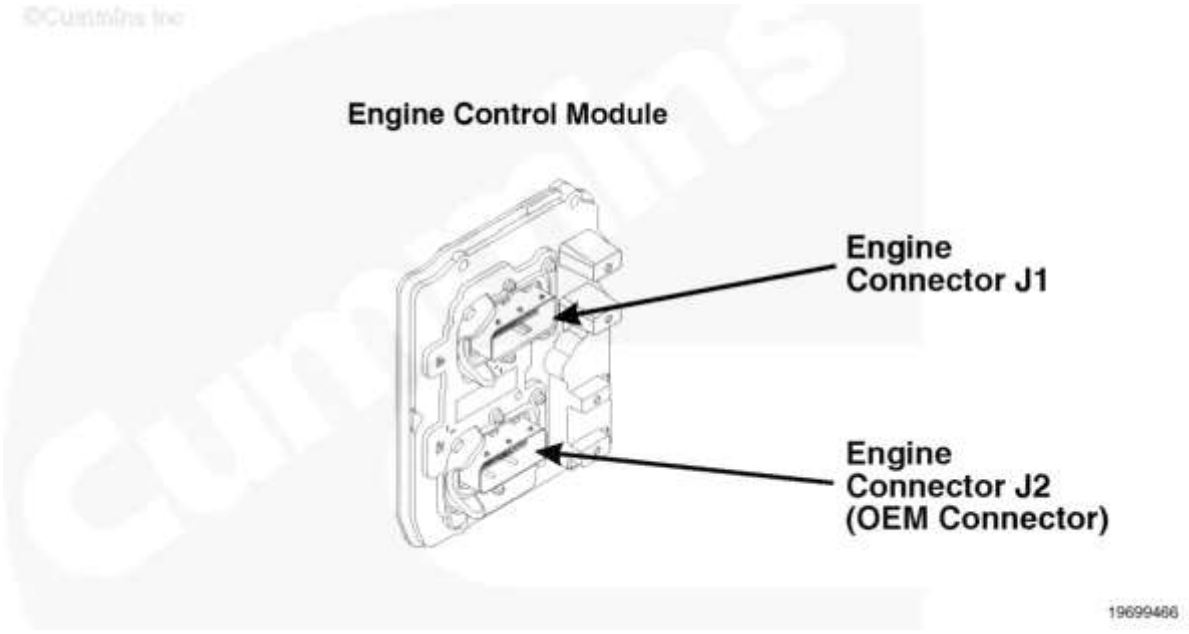
Fault Code: 6725

Intake Manifold 1 Pressure - Data Valid But Above Normal Operating Range - Least Severe Level

Overview

Codes	Reason	Effect
Fault Code: 6725 PID(P): SPN: 102 FMI: 0/15 Lamp: Amber SRT:	The intake manifold boost pressure reading is higher than expected for the engine operating conditions.	Possible reduced engine performance.



Engine Control Module (ECM)

Circuit Description

The engine control module (ECM) provides a 5 volt supply to the intake manifold pressure sensor on the sensor supply circuit. The ECM also provides a ground on the sensor return circuit. The intake manifold pressure sensor provides a signal to the ECM on the intake manifold pressure sensor signal circuit. This sensor signal voltage changes based on the pressure in the intake manifold.

Component Location

The intake manifold 1 pressure/temperature sensor is located in the air intake manifold.

Conditions For Running The Diagnostics

This diagnostic runs continuously when the engine is running.

Conditions For Setting The Fault Codes

The Engine Control Module (ECM) detected the intake manifold pressure reading was higher than expected for the engine operating conditions.

Action Taken When The Fault Code Is Active

- The ECM illuminates the amber CHECK ENGINE lamp and/or the malfunction indicator lamp (MIL) immediately when the diagnostic runs and fails.

A default value of the intake manifold pressure reading is used.

- Diesel exhaust fluid injection into the aftertreatment system is disabled.

Active and stationary regeneration of the diesel particulate filter will be disabled.

Exhaust gas recirculation (EGR) valve operation will be disabled.

Engine torque will be reduced if the engine is operated for an extended period of time with this fault active.

Conditions For Clearing The Fault Code

- To validate the repair, first ensure the engine coolant temperature is above 70 °C or 158 °F. Operate the engine if necessary.
- The fault code status displayed by the recommended Cummins electronic service tool or equivalent will change to INACTIVE immediately after the diagnostic runs and passes.
- The ECM will turn off the amber CHECK ENGINE lamp immediately after the diagnostic runs and passes.
- For On-Board Diagnostics (OBD) engines, the ECM will extinguish the Malfunction Indicator Lamp (MIL) after three consecutive trips where the diagnostic runs and passes.
- The “Reset All Faults” command in the recommended Cummins electronic service tool or equivalent can be used to clear active and inactive faults, as well as extinguish the MIL for OBD applications.

Shoptalk

Possible causes of this fault are:

A damaged turbocharger speed sensor

A damaged barometric pressure sensor

A damaged turbocharger compressor intake temperature sensor.

Refer to Troubleshooting Fault Code 6725. (/qs3/pubsys2/xml/en/procedures/189/189-t06-6725.html)

Last Modified: 25-May-2019
