

GMC P111D: INTAKE AIR TEMPERATURE (IAT) SENSOR 1-FUEL TEMPERATURE SENSOR 2 CORRELATION

OVERVIEW

Severity	:	<div><div>Medium</div></div>
DIY Difficulty Level	:	<div><div>Intermediate</div></div>
Repair Cost	:	\$90-\$1000
Can I Still Drive?	:	Yes (Short-term only)

What Does The GMC P111D Code Mean?

This code mean that:

- The ECM determines the absolute temperature difference between the Fuel Temperature Sensor 2 and the IAT Sensor 1 signals is more than 100°C (180°F) at start up.

OR

- The ECM determines the absolute temperature difference between the CAC Temperature Sensor signal and the IAT Sensor 2 signal is more than 20°C (36°F), but less than or equal to 100°C (180°F) after 10 minutes of engine run time.
- The ECM determines the block heater if OFF.
- The ECM determines there is no sunload.

Conditions for setting the code:

- Case 1: DTCs [P0016](#), [P0112](#), [P0113](#), [P0187](#), [P0188](#), [P0335](#), [P0336](#), [P0340](#), or [P0341](#) are not set. Ignition has been OFF for 8 hours or more. The ambient temperature is warmer than -60°C (-76°F). The engine is running.
- Case 2: DTCs [P0016](#), [P0112](#), [P0113](#), [P0187](#), [P0188](#), [P0335](#), [P0336](#), [P0340](#), or [P0341](#) are not set. Ignition has been OFF for 8 hours or more. The ambient temperature is warmer than -60°C

(-76°F). The engine is running. In the first 60 s of engine run time, the ECM determines the block heater is OFF. AND In the first 10 minutes of engine run time, the vehicle speed as been at least 24 km/h (15 mph) for at least 5 minutes and the ECM determines there is no Sunload

This DTC runs once per key cycle when the conditions in 1 or 2 are met.

Reference Sources

- [Technical Service Bulletin 06-06-01-007G for P111D](#) - General Motors; 2001–2013 GMC Sierra, 2003–2009 GMC TopKick, and 2006–2013 GMC Savana
- [Technical Service Bulletin 06-06-01-007I for P111D](#) - General Motors, 2001-2016 GMC Sierra, 2003-2009 GMC TopKick, and 2006-2016 GMC Savana