

AUDI P1176: O2 CORRECTION BEHIND CATALYST B1 LIMIT ATTAINED

OVERVIEW

Severity	:	High
DIY Difficulty Level	:	Intermediate
Repair Cost	:	\$100-\$300
Can I Still Drive?	:	Yes

What Does The Audi P1176 Code Mean?

Engine started, battery voltage must be at least 11.5v, all electrical components must be off, the ground between the engine and the chassis must be well connected, the exhaust system must be properly sealed between the catalytic converter and the cylinder head, the coolant temperature must be at least 80 degrees Celsius, and the oxygen sensor heater for oxygen sensor before the catalytic converter must be properly functioning.

The ECM has detected a malfunction of the oxygen sensor.

Note:

- Vacuum in the intake system sucks in the leak detection spray with false air. Leak detection spray decreases ignition quality of the fuel mixture. This causes a drop in engine speed and changes the value produced by the Heated Oxygen Sensor (HO2S).
- Vehicle must be raised before connector for oxygen sensor is accessible.
- The oxygen sensor before catalytic converter has a static regulation and can be differentiated from the oxygen sensor behind catalytic converter via a 6-pin connector.

What Are The Potential Causes Of The Audi P1176 Code?

- O2 sensor circuit has shorted to ground or B+

- O2 sensor circuit is open
- ECM has failed
- O2 sensor has failed
- Intake Manifold Runner Position Sensor is faulty
- Intake system for leaks (false air) is faulty
- Motor for intake flap is faulty

Reference Sources

[Audi A4 Avant 95-01 Service Repair Manual](#), page 41.