

AUDI P1137: LONG TERM FUEL TRIM ADD. FUEL, BANK 1 SYSTEM TOO RICH

OVERVIEW

Severity	:	High
DIY Difficulty Level	:	Intermediate
Repair Cost	:	\$50-\$500
Can I Still Drive?	:	No

What Does The Audi P1137 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, and the oxygen sensor heater for oxygen sensor before the catalytic converter must be properly functioning.

The ECM detected the HO2S circuit was too rich, or that it could no longer change Fuel Trim because it was at its lean limit.

What Are The Potential Causes Of The Audi P1137 Code?

- Air intake system leaking, vacuum hoses leaking or damaged
- Air leaks located after the MAF sensor mounting location
- EGR valve sticking, EGR diagramleaking, or gasket leaking
- EVAP vapor recovery system has failed
- Excessive fuel pressure, leaking or contaminated fuel injectors
- Exhaust leaks before or near the HO2S(s) mounting location
- Fuel pressure regulator is leaking or damaged
- HO2S circuits wet or oily, corroded, or poor terminal contact
- HO2S is damaged or it has failed
- HO2S signal circuit open, shorted to ground, shorted to power

- Low fuel pressure or vehicle driven until it was out of fuel
- Oil dipstick not seated or engine oil level too high (overfilled)

Reference Sources

- Audi of America, 2012, [Technical Service Bulletin](#).
- Audi of America, 2013, [Technical Service Bulletin](#).
- Audi of America, 2013, [Technical Service Bulletin](#).
- Audi of America, 2014, [Technical Service Bulletin](#).
- Omnitek Engineering Corp., 2020, [Diagnostic Trouble Code \(DTC\) Guide for Omnitek ECM 64A/66A/88A](#), page 131.
- [Audi A4 Avant 95-01 Service Repair Manual](#), page 40.