

AUDI P1128: LONG TERM FUEL TRIM ADD. AIR. BANK 1 SYSTEM TOO LEAN

OVERVIEW

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

What Does The Audi P1128 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 fuel mixture is so rich that the O2S control is on lean limit. Note: When an O2S malfunction ([P0131](#) to [P0414](#)) is also stored with this malfunction, the O2S malfunction(s) should be repaired first.

Note: After exhaust system repairs, make sure exhaust system is not under stress and that it has sufficient clearance from the bodywork. If necessary, loosen double clamps and align exhaust pipe so that sufficient clearance is maintained to the bodywork and support rings carry uniform loads. Do not use any silicone sealant. Traces of silicone components which are sucked into the engine are not burned there, and they damage the oxygen sensor.

What Are The Potential Causes Of The Audi P1128 Code?

- Fuel pressure is too low or fuel quantity supplied is too low
- Fuel filter faulty
- Transfer fuel pump has failed

- Fuel injector is faulty (sticking or not opening)
- Engine speed (RPM) sensor is faulty
- MAF sensor circuit open
- MAF sensor circuit shorted to ground
- Air leak in the manifold
- Secondary air injection system combi-valve stuck open
- Secondary air injection system electrical short
- ECM has failed

Reference Sources

- Audi of America, 2002, [Technical Service Bulletin - Diagnosis of Driveability Complaints on Turbo Charged Engines](#).
- Audi of America, 2010, [Technical Service Bulletin](#).
- Audi of America, 2013, [Technical Service Bulletin](#).
- Audi of America, 2015, [Technical Service Bulletin](#).
- Audi of America, 2020, [Technical Service Bulletin](#).
- [Audi A4 Avant 95-01 Service Repair Manual](#), page 39.