

AUDI P1127: LONG TERM FUEL TRIM ADD. AIR. BANK 1 SYSTEM TOO RICH

OVERVIEW

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

What Does The Audi P1127 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: 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 P1127 Code?

Below are some potential causes of this DTC:

- 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
- Fuel pressure too high, leaks in the vacuum hose to fuel pressure regulator
- Fuel pressure regulator has failed
- Fuel injectors are dirty, faulty or do not close properly
- ECM has failed

Reference Sources

- Audi, 2013, [Technical Service Bulletin](#).
- Audi, 2012, [Technical Service Bulletin](#).
- Audi, 2013, [Technical Service Bulletin](#).
- [Audi A4 Avant 95-01 Service Repair Manual](#), page 39.