

P0209: CYLINDER 9 INJECTOR CIRCUIT MALFUNCTION

OVERVIEW

Severity	:	High
DIY Difficulty Level	:	Advanced
Repair Cost	:	\$350-\$850
Can I Still Drive?	:	No

What Does The P0209 Code Mean?

P0209 means that the PCM detected a fault in the injector or the wiring to the injector. It monitors the injector and when the injector is activated, the PCM expects to see the voltage pulled "low" or close to zero.

When the injector is switched off, the PCM expects to see a voltage that is close to battery voltage or "high". If it doesn't see the expected voltage the PCM will set this code. The PCM also monitors resistance in the circuit. If the resistance is excessively low or high it will set this code.

What Are The Symptoms Of The P0209 Code?

The symptoms for this code will likely be a misfire and a rough running engine. Poor acceleration. The MIL will also be illuminated.

What Are The Potential Causes Of The P0209 Code?

The causes of a P0209 engine light code could be any of the following:

- Bad injector. This is usually the cause of this code but doesn't rule out the possibility of one of the other causes
- Open in the wiring to the injector
- Short in the wiring to the injector
- Bad PCM

How Can You Fix The P0209 Code?

Step 1: First, using a DVOM check the resistance of the injector. If it isn't within specs, then replace the injector.

Step 2: Check for voltage at the fuel injector connector. It should have 10 volts or more.

Step 3: Visually check the connector for damage or broken wires.

Step 4: Visually check the injector for damage.

Step 5: If you have access to an injector tester, activate the injector and see if it operates. If the injector operates, then you likely have either an open in the wiring, or a blocked injector. If you do not have access to a tester, swap the injector with another one and see if the code changes. If the code changes, then change the injector.

Step 6: At the PCM, remove the driver wire from the PCM connector and Ground the wire. (Make sure you have the correct wire. If you're not sure, do not attempt) The injector should activate

Step 7: Replace the injector

Reference Sources

[P0209: Cylinder 9 Injector Circuit Malfunction](#), OBD-Codes.