

P0268: CYLINDER #3 INJECTOR CIRCUIT HIGH

OVERVIEW

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

What Does The P0268 Code Mean?

Trouble code P0268 is a generic code (common to all manufacturers) denoting an above average current draw from the fuel injector servicing the number three cylinder.

The engine cylinder #3 injector is operating poorly or not at all due to a problem within the circuit. It may be noted that although this code is common to all vehicles, the prognosis may vary between manufacturers.

For example, they may have been experiencing problems with a batch of fuel injectors, or some other defective item within the circuit limited to their particular vehicles.

This type of problem is better addressed as soon as possible to prevent damage to other internal components. A bad fuel injector will effect the spark plug, cause detonation, effects the oxygen sensor and catalytic converter, and several other components as well.

Go online and access the technical service bulletins (TSBs) for your specific vehicle. Look for any TSBs relating to P0268 and their suggested repair procedure.

What Are The Symptoms Of The P0268 Code?

The symptoms displayed for a P0268 code may include:

- The malfunction indicator light will illuminate and code P0268 will set

- The engine will run rough at idle
- The fuel economy will suffer
- There will be a lack of power indicated by poor acceleration

What Are The Potential Causes Of The P0268 Code?

Potential causes for this DTC include:

- Faulty electrical harness from the PCM to the injector
- Faulty electrical connector on the fuel injector
- Internally shorted fuel injector causing a high-voltage draw
- Plugged or dirty fuel injector

How Can You Fix The P0268 Code?

It's been my experience over the years, that the problem is typically a corroded or loose fuel injector connector, or a faulty fuel injector.

A loose connector causes excessive resistance thereby increasing the voltage necessary for operation. The wiring harness to the powertrain control module (PCM) is not easily accessible, and left undisturbed is seldom faulty.

The fuel injector, on the other hand, is susceptible to a variety of problems. The number one problem is fuel with anhydrous ethanol content. This fuel additive reduces the oil base fuel consumption.

The water vapor produced with E10 anhydrous ethanol has an adverse effect on the fuel injectors. They rely on fuel for lubrication. Water vapor reduces the friction reducing attributes of gasoline and causes premature wear in the injector.

Small engine manufacturers do not endorse the use of ethanol based fuels as they significantly reduce the service life of a small engine.

Step-by-step Guide

Step 1: Inspect the electrical connector on the fuel injector. Look for bent or pushed out pins. Install some dielectric grease and push the electrical connector on the fuel injector. Make sure it is a tight fit and the metal spring retaining clip is in place

Step 2: Start the engine. Place a long screwdriver handle to your ear and the tip on the fuel injector. A clicking sound indicates a working injector. No sound is the opposite

Step 3: Disconnect the fuel injector. With an ohmmeter, check the resistance between the two male terminal blades. A good injector will have 0.5 to 2.0 ohms. More or less ohms indicates an injector

with an internal short.

Step 4: If the resistance is correct and the injector could be heard operating, the next step is to attempt to clean the injector. If cleaning fails to restore the injector to normal operating parameters, the only alternative is to replace the injector.

Step 5: Purchase a 'direct injection cleaner kit consisting of a can of cleaner and a injection hose. Pull the fuel pump fuse and start the engine. Allow it to run until it stalls.

Step 6: Remove the schrader valve from the fuel pressure test port on the fuel rail. Install the hose on the test port.

Step 7: Pinch off the fuel return line directly behind the fuel pressure regulator using a needle nose vise grips.

Step 8: Open the bottle of cleaner to build pressure in the fuel rail.

Step 9: Start the engine and allow it to run on the bottle of fuel injection cleaner until it stalls.

Step 10: Turn off the key and remove the cleaner hose from the test port. Install the schrader valve, remove the vise grips from the return line and install the fuel pump fuse.

Step 11: Use a common code scanner to erase the trouble codes. Start the engine. If the code returns, replace the injector.

Reference Sources

[Diagnostic Chart with Trouble Code for LHD Vehicles for P0268](#) - Pages 79-82.