

## P0008: ENGINE POSITIONS SYSTEM PERFORMANCE BANK 1

### OVERVIEW

Severity	:	High
DIY Difficulty Level	:	Advanced
Repair Cost	:	\$200-\$1200
Can I Still Drive?	:	No

### What Does The P0008 Code Mean?

This diagnostic trouble code (DTC) is a generic powertrain code, which means that it applies to OBD-II equipped vehicles, including but not limited to Cadillac, , Chevrolet, etc.

Although generic, the specific repair steps may vary depending on make/model. This source has a good description of this P0008 code:

*"The Engine Control Module (ECM) tests for misalignment between both camshafts on one bank of the engine & the crankshaft. The misalignment would be at an idler sprocket for either bank or at the crankshaft. Once the ECM learns the position of both camshafts on one bank of the engine, the ECM compares the learned values to a reference value. The ECM will set a DTC if both learned values for one bank of the engine are exceeding a calibrated threshold in the same direction."*

The code is more common in the following makes: Suzuki, GM, Cadillac, Buick, Holden. In fact, there are service bulletins for certain GM vehicles and the fix is to replace timing chains (including such engines as 3.6 LY7, 3.6 LLT or 2.8 LP1).

You may also see this DTC in a vehicle that also has other related DTCs such as [P0009](#), [P0016](#), [P0017](#), P0018, and P0019. Bank 1 refers to the side of the engine that contains cylinder #1.

## What Are The Symptoms Of The P0008 Code?

Symptoms of a P0008 DTC may include:

- MIL (Malfunction indicator lamp) illumination
- Roughness while accelerating
- Poor fuel economy
- Decreased power
- Timing chain “noise”

## What Are The Potential Causes Of The P0008 Code?

Potential causes of a P0008 code may include:

- Stretched timing chain
- Crankshaft reluctor wheel has moved and is no longer referenced to top dead center (TDC)
- Timing chain tensioner problem

## How Can You Fix The P0008 Code?

If your vehicle is new enough that it still has powertrain warranty left, by all means let the dealer perform the fix. Generally, diagnosing and fixing this DTC will involve inspecting the timing chains and tensioners for excessive wear or misalignment, and inspecting the crank reluctor wheel for proper positioning. Then replacing parts as required.

As said earlier, there are known issues with some GM engines so there may be updated or revised replacement parts. Please consult a factory service manual for more vehicle make & model specific troubleshooting steps.

## Reference Sources

[Technical Service Bulletin for P0008](#)