

P0020: "B" CAMSHAFT POSITION ACTUATOR CIRCUIT (BANK 2)

OVERVIEW

Severity	:	High
DIY Difficulty Level	:	Intermediate
Repair Cost	:	\$95-\$210
Can I Still Drive?	:	Yes (Short-term only)

What Does The P0020 Code Mean?

A P0020 code refers to the VVT (variable valve timing) or VCT (variable camshaft timing) components and the car's PCM (powertrain control module) or ECM (engine control module). VVT is a technology used in the engine to allow it to get greater power or efficiency at different running points.

That consists of an oil control valve (OCV), also called a solenoid valve and other components. Basically the check engine light and associated P0020 trouble code means that the voltage in the circuit has fallen below a set limit for a specific amount of time (varies by make/model/engine). Bank 2 is the side of the engine that doesn't contain cylinder #1.

Note: This DTC is nearly identical to [P0010](#)

What Are The Symptoms Of The P0020 Code?

Symptoms may include:

- Check Engine Light illuminated (Malfunction Indicator Lamp)
- Rough running
- other symptoms may also be present

What Are The Potential Causes Of The P0020 Code?

A code P0020 may mean that one or more of the following has happened:

- Faulty oil control valve (OCV)
- Open or short in the VVT/VCT circuit
- Open or short in the OCV / solenoid valve
- Damaged computer (PCM)

How Can You Fix The P0020 Code?

Some recommended troubleshooting and repair steps are:

- Carefully inspect the Bank 2VVT/VCT system circuit wiring and connectors, repair as required
- With a warm engine, test the operation of the OCV, replace/repair as needed

Other camshaft DTC codes: [P0010](#)– [P0011](#)– [P0012](#)– [P0021](#)– [P0022](#)

Reference Sources

[2GR-FE ENGINE CONTROL SYSTEM SERVICE MANUAL for P0020](#)