

P0015: "B" CAMSHAFT POSITION - TIMING OVER-RETARDED (BANK 1)

OVERVIEW

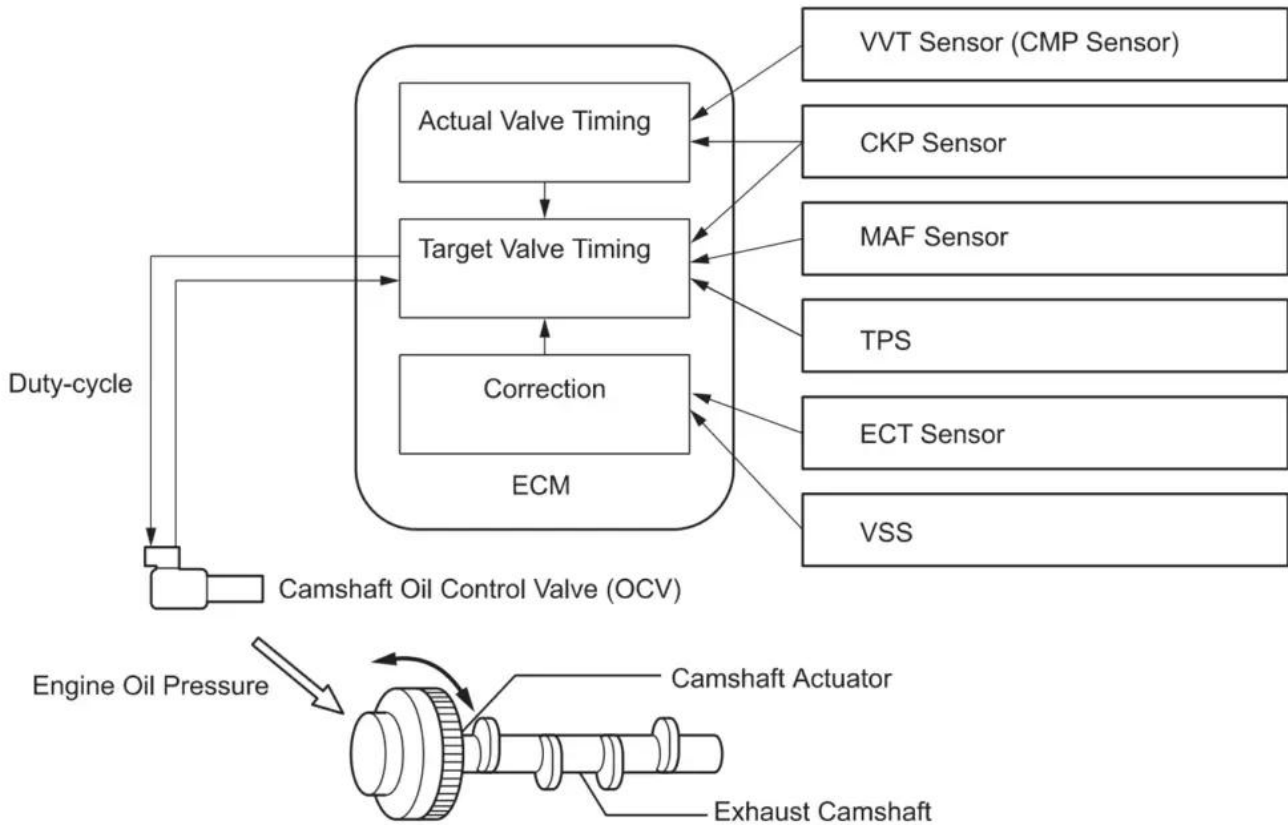
Severity	:	<div><div>High</div></div>
DIY Difficulty Level	:	<div><div>Intermediate</div></div>
Repair Cost	:	\$35-\$450
Can I Still Drive?	:	Yes (Short-term only)

What Does The P0015 Code Mean?

A code P0015 refers to the VVT (variable valve timing) or VCT (variable camshaft timing) components and the car's PCM (powertrain control module, also called an ECM).

That consists of a few different components but the P0015 DTC specifically refers to the camshaft (cam) timing. In this case, if the cam timing is over-retarded, the engine light will be illuminated and the code will be set. Bank #1 is the side of the engine that contains cylinder #1. The "B" camshaft shall be either the "exhaust," "right," or "rear" camshaft. Left/Right and Front/Rear are determined as if viewed from the driver's seating position.

VVT System



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A130637E02

P0015 wiring diagram

What Are The Symptoms Of The P0015 Code?

Most likely a P0015DTC will result in one of the following:

- Hard starting
- Poor idle and/or
- Stalling

There are potentially other symptoms as well. Of course, when trouble codes are set, the MIL (malfunction indicator lamp, a.k.a. the check engine light) illuminates.

What Are The Potential Causes Of The P0015 Code?

A P0015 DTC trouble code may be caused by one or more of the following:

- Incorrect camshaft timing
- Wiring problems (harness/wiring) in intake timing control valve control solenoid system
- Continuous oil flow to VCT piston chamber
- Failed timing valve control solenoid (stuck open)

How Can You Fix The P0015 Code?

The main thing to check is to verify the operation of the VCT solenoid. You're looking for a sticking or stuck VCT solenoid valve caused by contamination. Refer to vehicle specific repair manual to perform component tests for the VCT unit. Notes: Dealer techs have advanced tools and the ability to follow detailed troubleshooting steps, including the ability to test components using a scan tool.

Other related DTCs: [P0010](#)– [P0011](#)– [P0012](#)– [P0014](#)– [P0020](#)– [P0021](#)– [P0022](#)

Reference Sources

- [2GR-FE ENGINE CONTROL SYSTEM SERVICE MANUAL for P0015](#) - Toyota RAV4
- [Technical Service Bulletin for P0015](#) - Mazda
- [Technical Service Bulletin for P0015](#) - Nissan