

P0014: "B" CAMSHAFT POSITION - TIMING OVER-ADVANCED OR SYSTEM PERFORMANCE (BANK 1)

OVERVIEW

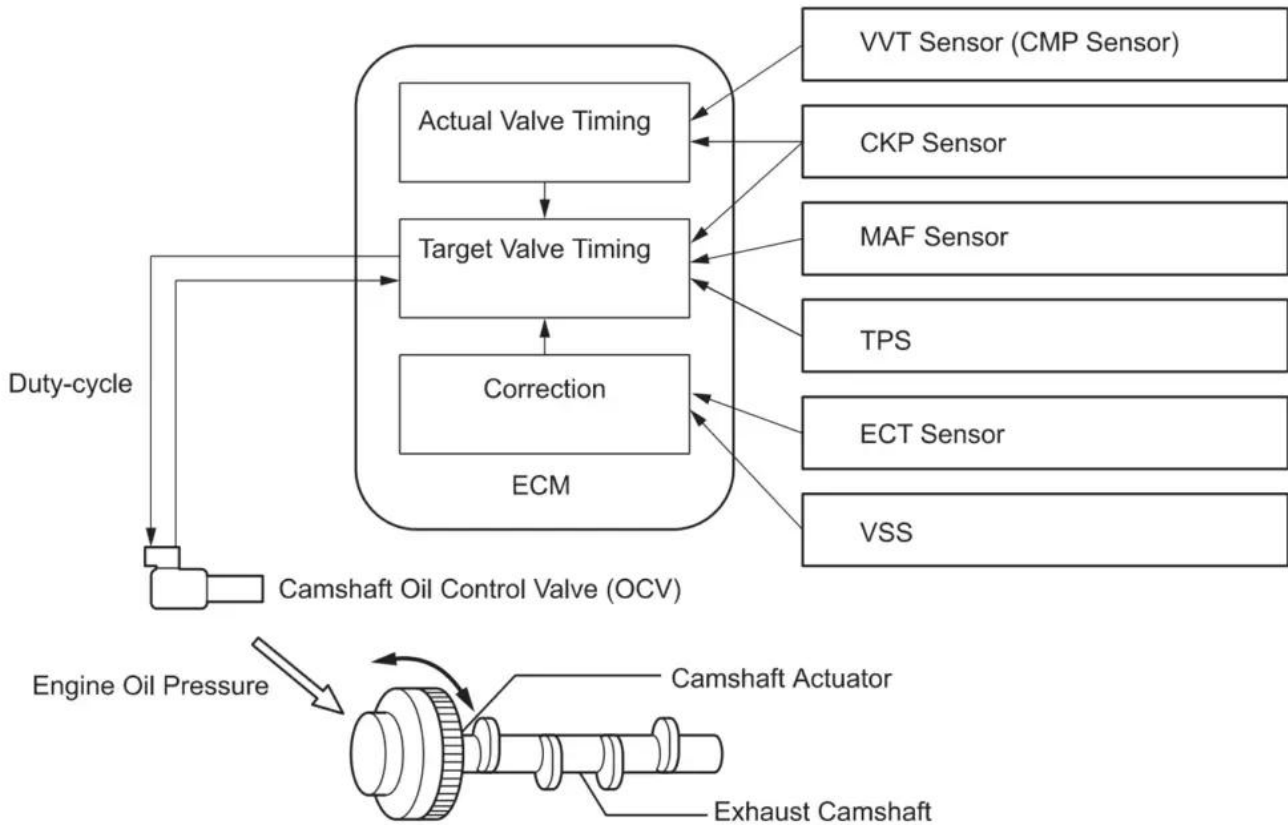
Severity	:	<div><div></div></div> High
DIY Difficulty Level	:	<div><div>Intermediate</div></div>
Repair Cost	:	\$35-\$450
Can I Still Drive?	:	Yes (Short-term only)

What Does The P0014 Code Mean?

A P0014 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 a few different components but the P0014 DTC specifically refers to the camshaft (cam) timing. In this case, if the cam timing is above a set limit (over-advanced), the engine light will be illuminated and the code will be set. Bank 1 is the side of the engine containing 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



Y

A130637E02

P0014 wiring diagram

What Are The Symptoms Of The P0014 Code?

Most likely a P0014 DTC 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 P0014 Code?

A P0014 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 P0014 Code?

This DTC code is a result of a mechanical fault of the VCT unit or related components, so there is no need for electrical diagnosis. 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](#)–[P0020](#)– [P0021](#)– [P0022](#)

Reference Sources

- [2GR-FE ENGINE CONTROL SYSTEM SERVICE MANUAL for P0014](#) - Toyota RAV4
- [Technical Service Bulletin for P0014](#) - KIA
- [Technical Service Bulletin for P0014](#) - GM