

P0010: "A" CAMSHAFT POSITION ACTUATOR CIRCUIT (BANK 1)

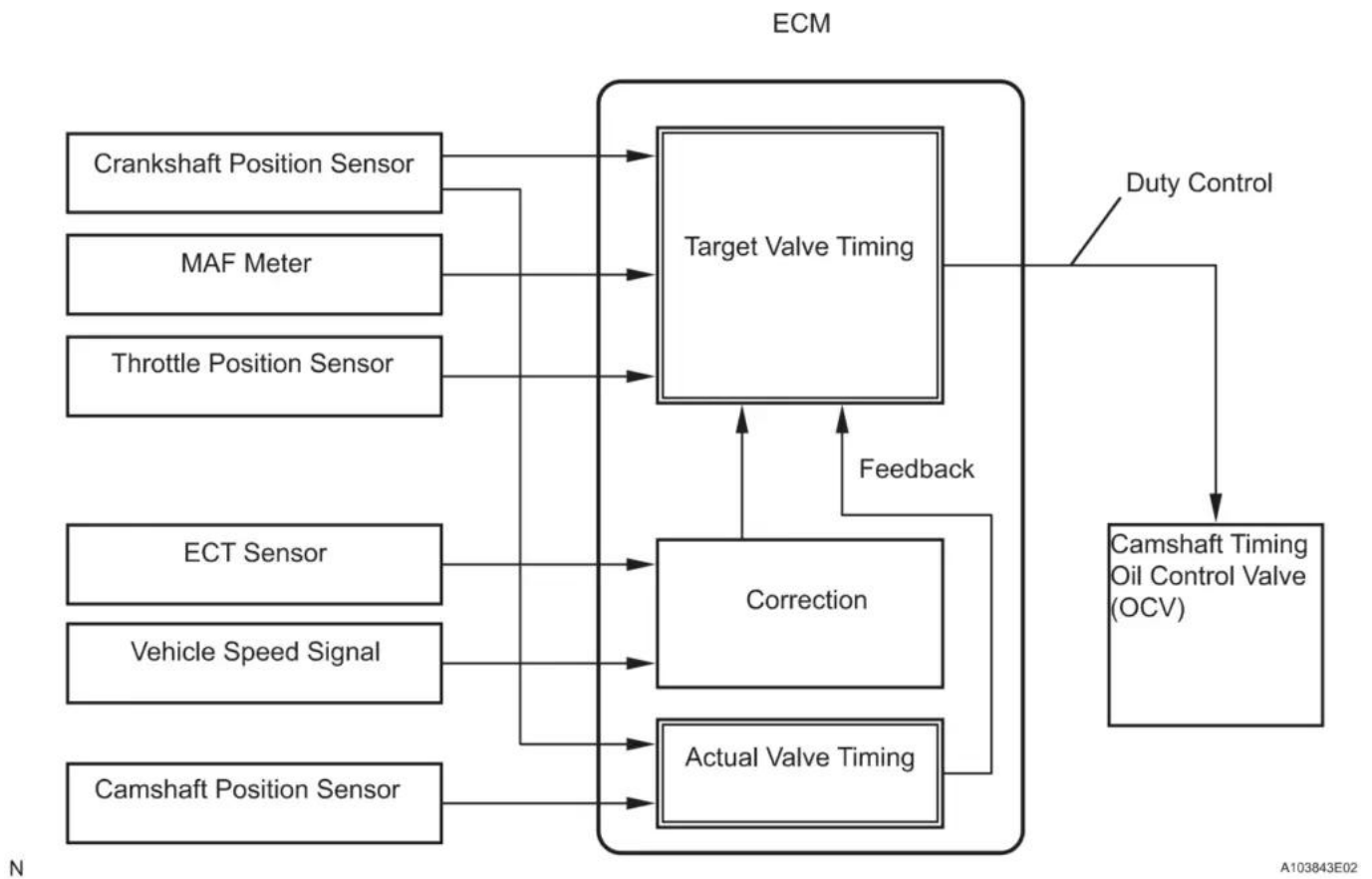
OVERVIEW

Severity	:	<div><div>Medium</div></div>
DIY Difficulty Level	:	<div><div>Intermediate</div></div>
Repair Cost	:	\$100-\$1000
Can I Still Drive?	:	Yes (Short-term only)

What Does The P0010 Code Mean?

A P0010 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 P0010 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). This code is specific to bank 1. Bank 1 is the side of the engine that contains cylinder #1.



P0010 wiring diagram

What Are The Symptoms Of The P0010 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 P0010 Code?

A code P0010 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 P0010 Code?

Some recommended troubleshooting and repair steps are:

- Carefully inspect the Bank 1VVT/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: [P0011](#)– [P0012](#)– [P0020](#)– [P0021](#)– [P0022](#)

Reference Sources

- [2GR-FE ENGINE CONTROL SYSTEM SERVICE MANUAL for P0010](#)
- [Technical Service Bulletin for P0010](#) - GM