

P0355: IGNITION COIL E PRIMARY/SECONDARY CIRCUIT MALFUNCTION

OVERVIEW

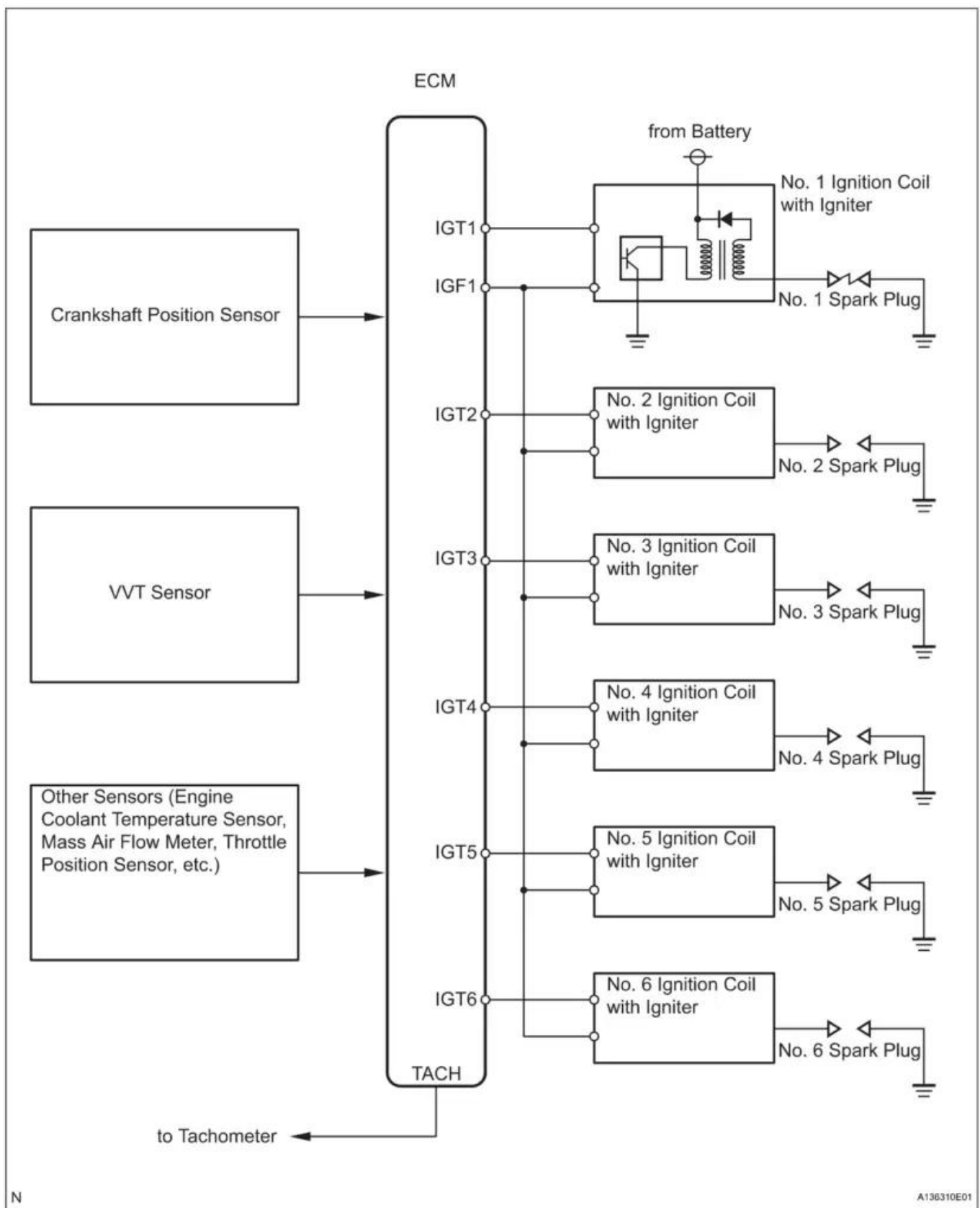
Severity	:	High
DIY Difficulty Level	:	Intermediate
Repair Cost	:	\$150-\$300
Can I Still Drive?	:	No

What Does The P0355 Code Mean?

The COP (coil on plug) ignition system is what is used on most modern engines. There is an individual coil for each cylinder that is controlled by the PCM (powertrain control module).

It eliminates the need for spark plug wires by putting the coil right above the sparkplug. Two wires are dedicated to each coil. One is a battery feed usually from the power distribution center. The other wire is the coil driver circuit from the PCM. The PCM grounds/ungrounds this circuit to activate or deactivate the coil. The coil driver circuit is monitored by the PCM for faults

If an open or a short is detected in the driver circuit for coil #5, a P0355 may set. Also, depending on the vehicle, the PCM may also shut down the fuel injector to the cylinder also.



P0355 wiring diagram

What Are The Symptoms Of The P0355 Code?

Symptoms of a P0355 DTC may include:

- MIL (Malfunction indicator lamp) illumination
- Engine misfire may be present or intermittent

What Are The Potential Causes Of The P0355 Code?

Potential causes of a P0355 code include:

- Short to voltage or ground on COP driver circuit
- Open on COP driver circuit
- Loose connection at coil or broken connector locks
- Bad Coil (COP)
- Faulty Powertrain Control Module

How Can You Fix The P0355 Code?

Is the engine misfiring presently? If not, the problem is likely intermittent. Try wiggle testing the wiring at the #5 coil and along the wiring harness to the PCM. If manipulating the wiring causes the misfire to surface, repair the wiring problem. Check for poor connection at the coil connector. Verify the harness isn't misrouted or chafing on anything. Repair as necessary

If the engine is misfiring presently, stop the engine and disconnect the #5 coil wiring connector. Then start the engine and check for a driver signal to the #5 coil. Using a scope will give you a visual pattern to observe, but since most people don't have access to one there's an easier way. Use a Voltmeter in AC Hertz scale and see if there's a Hz reading of between 5 and 20 or so that indicates the driver is working.

If there is a Hertz signal, then replace the #5 ignition coil. It's likely bad. If you don't detect any frequency signal from the PCM on the ignition coil driver circuit indicating the PCM is grounding/ungrounding the circuit (or there is no visible pattern on the scope if you have one) then leave the coil disconnected and check for DC voltage on the driver circuit at the ignition coil connector. If there is any significant voltage on that wire then there is a short to voltage somewhere. Find the short and repair it.

If there is no voltage on the driver circuit, then turn the ignition off. Disconnect the PCM connector and check the continuity of the driver between the PCM and the coil. If there is no continuity repair the open or short to ground in the circuit. If continuity is present, then check for resistance between ground and the ignition coil connector. There should be infinite resistance. If there isn't, repair the short to ground in the coil driver circuit

NOTE: If the ignition coil driver signal wire is not open or shorted to voltage or ground and there is no trigger signal to the coil then suspect a faulty PCM coil driver. Also keep in mind that if the PCM driver is at fault, there may be a wiring problem that caused the PCM failure. It's a good idea to do the above check after PCM replacement to verify there won't be a repeat failure. If you find that the engine isn't misfiring, the coil is being triggered properly but P0355 is continually being reset, there is the possibility that the PCM coil monitoring system may be faulty.

Reference Sources

[P0355: Ignition Coil E Primary/Secondary Circuit Malfunction](#), OBD-Codes.