

GENERIC · POWERTRAIN

P2152

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P2152

Fuel Injector Group 'C' Supply Voltage Circuit/Open

P2152 indicates that the powertrain control module (PCM) has detected an open circuit or out-of-range voltage on the power supply circuit feeding fuel injector group 'C'. This group typically includes a set of injectors that share a common voltage feed, and the PCM monitors the circuit to ensure the injectors receive proper power for fuel delivery.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Generic (all makes)	Medium	Intermediate	Fuel and air metering

Symptoms you may notice

- Illumination of the check engine light, often with no other noticeable symptoms
- Rough idle or misfire, especially if multiple injectors in the group are affected
- Engine hesitation or stumble during acceleration
- Reduced engine power or limp mode in some vehicles
- Poor fuel economy due to improper fuel delivery
- Difficulty starting or stalling shortly after start

Common causes, most likely first

- 1 Open or damaged wire in the injector group 'C' supply voltage circuit
- 2 Corroded or loose electrical connector at one of the injectors in group 'C'
- 3 Failed fuel injector with an open internal coil
- 4 Blown fuse or faulty relay that supplies power to the injector group
- 5 PCM internal fault affecting the injector driver circuit
- 6 Chafed or shorted wiring harness due to vibration or heat exposure

How to diagnose and fix it

- 1 Verify the code with a scan tool and check for any related misfire or injector circuit codes
- 2 Inspect the fuse and relay that provide power to the injector group 'C' circuit
- 3 Visually inspect the wiring harness and connectors at each injector in group 'C' for damage or corrosion
- 4 Measure resistance across each injector in group 'C' to check for an open coil (typical resistance is 12-16 ohms)
- 5 Check for battery voltage at the supply wire to each injector with the key on, engine off
- 6 Perform a voltage drop test on the supply circuit to identify excessive resistance
- 7 If the circuit and injectors test good, diagnose the PCM driver circuit or replace the PCM as needed



Before you replace the PCM or injectors

- A common oversight is assuming the injector itself is faulty when the real problem is a corroded connector pin or a chafed wire in the harness that only shows up under vibration.
- The supply voltage circuit for group 'C' often shares a fuse or relay with other circuits, so a blown fuse may be caused by a short in a different component on the same feed.
- Some vehicles use a single power feed for multiple injectors, and an open in that feed will disable the entire group, leading to multiple misfire codes that can mislead diagnosis.
- A failed injector with an open coil can cause the PCM to set P2152 even if the wiring is intact, so resistance testing of each injector is essential before condemning the harness.
- Intermittent faults may not appear during a simple voltage check; a wiggle test of the harness while monitoring injector voltage with a multimeter or oscilloscope can reveal the issue.

Can I keep driving with P2152?

Driving with P2152 is possible but not recommended because the engine may run rough, misfire, or enter limp mode, which can damage the catalytic converter over time. Avoid heavy acceleration and long trips until the fault is repaired.

Tools that help

- OBD-II scan tool
- Digital multimeter
- Test light
- Wiring diagram for the specific vehicle
- Socket set and trim removal tools

Reading P2152

- P** Powertrain: engine, transmission and emissions.
- 2** Generic (SAE) code: it means the same thing on every OBD-II vehicle.
- 1** Fuel and air metering.
- 52** The exact fault within that area.

Often seen with

P0200 Injector Circuit Malfunction · **P0300** Random/Multiple Cylinder Misfire Detected · **P0350** Ignition Coil Primary/Secondary Circuit · **P2151** Fuel Injector Group 'B' Supply Voltage Circuit High · **P2153** Fuel Injector Group 'C' Supply Voltage Circuit Low



See it working

Watch the animated explainer [How a Rotary Engine Works: Wankel in X-Ray](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p2152/>

