

GENERIC · POWERTRAIN

P216E

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P216E

Fuel Injector Group F Supply Voltage Circuit Low

P216E indicates that the powertrain control module (PCM) has detected a low voltage condition on the power supply circuit feeding a specific group of fuel injectors, designated as Group F. This means the PCM commands the injectors to open, but the circuit voltage is below the expected threshold, which can prevent proper fuel delivery and cause a misfire or rich/lean condition.

SYSTEM

Powertrain

CODE TYPE

Generic (all makes)

SEVERITY

Medium

FIX DIFFICULTY

Intermediate

AREA

Fuel and air metering

Symptoms you may notice

- Illuminated check engine light, often with no other noticeable symptoms
- Rough idle or misfire, especially noticeable at idle or low speeds
- Engine hesitation or stumble during acceleration
- Reduced engine power or limp mode in some vehicles
- Poor fuel economy or strong fuel odor from the exhaust
- Hard starting or stalling, particularly when the engine is cold

Common causes, most likely first

- 1 Faulty fuel injector with an internal short or open coil
- 2 Damaged or corroded wiring harness or connector at the injector group
- 3 Blown fuse or faulty relay supplying power to the injector group
- 4 Poor ground connection for the injector circuit
- 5 Failed PCM driver for the injector group (rare but possible)
- 6 Aftermarket accessories or modifications tapping into the injector circuit

How to diagnose and fix it

- 1 Check for any related technical service bulletins (TSBs) or recalls for the vehicle
- 2 Inspect the injector group wiring harness for chafing, corrosion, or loose connectors
- 3 Test the injector group power supply circuit for voltage drops and continuity
- 4 Check the fuse and relay that supply power to the injector group
- 5 Measure the resistance of each injector in the group and compare to specifications
- 6 Perform a fuel injector balance test or use a noid light to check for injector pulse
- 7 If all else checks out, diagnose the PCM driver circuit or replace the PCM as a last resort



Don't overlook the injector group ground

- A common oversight is assuming the code points directly to a failed injector, when a corroded ground connection for the injector group often causes the same low-voltage fault.
- The injector group designation (Group F) varies by manufacturer, so consult the service manual to identify which injectors are included before testing.
- A weak battery or failing alternator can cause system voltage to drop below the threshold, triggering P216E even though the injector circuit itself is intact.
- Aftermarket alarm systems or remote starters that tap into injector wiring can introduce resistance and set this code intermittently.
- The PCM may set P216E as a result of a shorted injector coil that only fails when hot, so testing should include both cold and hot resistance checks.

Can I keep driving with P216E?

Driving with P216E is generally not recommended because the affected injectors may not deliver fuel correctly, leading to misfires that can damage the catalytic converter over time. If the engine runs smoothly and the light is steady, you can drive cautiously to a repair shop, but avoid heavy acceleration or towing.

Tools that help

- OBD-II scan tool
- Digital multimeter
- Noid light set
- Fuel injector resistance tester
- Service manual or wiring diagram
- Basic hand tools

Reading P216E

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.
6E	The exact fault within that area.

Often seen with

P0171 System Too Lean (Bank 1) · **P0200** Injector Circuit Malfunction · **P0300** Random/Multiple Cylinder Misfire Detected · **P216D** Fuel Injector Group F Supply Voltage Circuit/Open · **P216F** Fuel Injector Group F Supply Voltage Circuit High



See it working

Watch the animated explainer [How Airbags Work: A 50 km/h Crash in Slow Motion](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p216e/>

