

GENERIC · POWERTRAIN

P217D

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P217D

Fuel Injector Group H Supply Voltage Circuit/Open

P217D indicates that the powertrain control module has detected an open circuit or abnormal voltage supply on the power feed to a group of fuel injectors designated as Group H. The computer monitors the injector supply voltage and sets this code when the voltage falls outside the expected range, typically because the circuit is open or has excessive resistance.

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
- Engine misfire or rough running, especially under load or acceleration
- Reduced engine power or limp mode in some vehicles
- Difficulty starting or an engine that cranks but does not fire
- Poor fuel economy or increased emissions
- Intermittent stalling or hesitation during driving

Common causes, most likely first

- 1 Open or damaged wire in the injector supply circuit (Group H)
- 2 Corroded or loose electrical connector at the injector or harness
- 3 Blown fuse or faulty relay supplying power to the injector group
- 4 Failed fuel injector with an internal open circuit
- 5 Damaged powertrain control module (PCM) driver circuit
- 6 Rodent damage or chafed wiring harness causing a short or open

How to diagnose and fix it

- 1 Check for any related technical service bulletins (TSBs) or recalls for the vehicle
- 2 Inspect the injector supply fuse and relay, and replace if blown or faulty
- 3 Disconnect the injectors in Group H and inspect connectors for corrosion or damage
- 4 Measure resistance of each injector in Group H and compare to specifications
- 5 Perform a voltage drop test on the supply circuit to locate excessive resistance
- 6 Check wiring continuity from the PCM to the injectors, looking for opens or shorts
- 7 If all circuits and injectors test good, diagnose the PCM driver circuit or replace the PCM



Don't overlook the injector supply circuit

- A common oversight is replacing injectors when the real problem is a corroded ground or power wire in the harness, so always perform a voltage drop test before condemning parts.
- The code may set intermittently due to vibration or heat, so wiggle-test the harness while monitoring live data to catch an intermittent open.
- Group H is a manufacturer-specific grouping, so consult the service manual for the exact injectors included; do not assume it covers all injectors on one bank.
- A weak battery or charging system fault can cause low supply voltage that mimics an open circuit, so verify battery and charging system health first.
- After repairs, clear the code and perform a drive cycle to confirm the fix; some vehicles require several key cycles before the monitor runs.

Can I keep driving with P217D?

If the engine runs smoothly and only the check engine light is on, you can drive cautiously to a repair shop. If you experience misfiring, rough running, or reduced power, avoid driving and have the vehicle towed to prevent catalytic converter damage or unsafe driving conditions.

Tools that help

- OBD-II scan tool with live data capability
- Digital multimeter (DMM)
- Test light
- Wiring diagram for the specific vehicle
- Basic hand tools (screwdrivers, socket set)

Reading P217D

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.
7D	The exact fault within that area.

Often seen with

P0200 Injector Circuit Malfunction · **P0261** Cylinder 1 Injector Circuit Low · **P0264** Cylinder 2 Injector Circuit Low · **P217E** Fuel Injector Group H Supply Voltage Circuit Low · **P217F** Fuel Injector Group H Supply Voltage Circuit High



See it working

Watch the animated explainer [How a Refrigerator Works: The Cooling Cycle](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p217d/>

