

GENERIC · POWERTRAIN

P0611

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P0611

Fuel Injector Control Module Performance

P0611 is a generic powertrain code that indicates the fuel injector control module, often called the injector driver module, has reported an internal performance fault to the engine computer. The engine control module sets this code when it receives a signal from the injector control module that its self-diagnostic routine has failed, meaning the module cannot reliably command the fuel injectors.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Generic (all makes)	High	Professional	Computer and output circuits

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 activation
- Difficulty starting or a no-start condition
- Poor fuel economy or increased emissions
- Intermittent stalling or hesitation during driving

Common causes, most likely first

- 1 Faulty fuel injector control module (internal failure)
- 2 Corroded, loose, or damaged wiring or connectors at the injector control module
- 3 Power or ground supply issue to the injector control module
- 4 Failed fuel injector causing excessive current draw and module stress
- 5 Engine control module software needing update or recalibration
- 6 Electrical interference or voltage spikes damaging the module
- 7 Poor connection at the engine control module harness



How to diagnose and fix it

- 1 Perform a thorough visual inspection of the injector control module and its connectors for corrosion, damage, or loose pins
- 2 Check all fuses and relays related to the injector control module and fuel injection system
- 3 Measure battery voltage and ground integrity at the module connector to rule out power supply issues
- 4 Use a scan tool to check for related codes and freeze-frame data, and verify the module's communication status
- 5 Test each fuel injector for resistance and current draw to identify a faulty injector that may have damaged the module
- 6 If wiring and injectors are good, replace the fuel injector control module and perform any required programming or calibration
- 7 Clear codes and road test to confirm the repair, monitoring live data for injector pulse width and misfire counters

What the injector control module really does

- Many vehicles use a separate injector control module that handles the high-current switching for the injectors, and this module can fail independently of the engine computer.
- A shorted or failing fuel injector can draw excessive current and damage the injector control module, so always test injectors before replacing the module.
- Corroded connectors or chafed wiring near the module are common culprits, especially in areas exposed to heat, moisture, or road debris.
- This code does not always mean the module is defective; low battery voltage or a poor ground can cause the module to set a performance code without permanent damage.
- Some vehicles require reprogramming or initialization of a new injector control module, and a used module may not work without proper coding.

Can I keep driving with P0611?

Driving with P0611 is not recommended because the fault can cause misfires, reduced power, or sudden stalling, which may lead to unsafe driving conditions. Have the vehicle diagnosed and repaired promptly, and avoid heavy loads or high-speed driving until fixed.

Tools that help

- OBD-II scan tool with live data and bidirectional controls
- Digital multimeter for voltage, resistance, and current testing
- Wiring diagram and service information for the specific vehicle
- Basic hand tools for connector and component access
- Oscilloscope for injector pulse and current waveform analysis



Reading P0611

- P** Powertrain: engine, transmission and emissions.
- 0** Generic (SAE) code: it means the same thing on every OBD-II vehicle.
- 6** Computer and output circuits.
- 11** The exact fault within that area.

Often seen with

P0200 Injector Circuit Malfunction · **P0201** Injector Circuit Malfunction - Cylinder 1 · **P0202** Injector Circuit Malfunction - Cylinder 2 · **P0300** Random/Multiple Cylinder Misfire Detected · **P0351** Ignition Coil A Primary/Secondary Circuit Malfunction

See it working

Watch the animated explainer [How Regenerative Braking Works in Electric Cars](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p0611/>

