



P1275 · Ford

Cylinder 5 High To Low Side Open

P1275 on a Ford means the powertrain control module (PCM) has detected an open circuit between the high side and low side of the fuel injector circuit for cylinder 5. The PCM commands the injector on and monitors the current flow, and when it sees no current or an unexpected voltage drop it flags this code because the injector coil or its wiring is not completing the circuit.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Ford specific	Medium	Intermediate	Fuel and air metering (injector circuits)

Symptoms you may notice

- Often no symptoms besides the warning light, especially if the open is intermittent
- A noticeable misfire or rough idle that may feel like a shake at stoplights
- Loss of power and sluggish acceleration under load
- Poor fuel economy as the PCM adds fuel to compensate for the dead cylinder
- A flashing check engine light if the misfire is severe enough to damage the catalytic converter
- Possible rotten egg smell from the exhaust if unburned fuel reaches the converter

Common causes, most likely first

- 1 Broken or chafed wire in the injector harness between the PCM and cylinder 5 injector
- 2 Corroded or loose connector pins at the cylinder 5 injector or at the PCM
- 3 Failed cylinder 5 fuel injector with an open internal coil
- 4 Rodent damage to the injector wiring loom on top of the engine
- 5 Water intrusion into the injector connector causing corrosion and an open circuit
- 6 PCM driver circuit failure for cylinder 5 (less common but possible)

How to diagnose and fix it

- 1 Inspect the cylinder 5 injector connector and harness for chafing, corrosion, or rodent damage
- 2 Disconnect the injector and measure resistance across its two terminals; compare to a known-good injector
- 3 Check for battery voltage at the injector high-side wire with the key on and engine off
- 4 Perform a continuity test from the injector low-side wire back to the PCM connector to find the open
- 5 Wiggle-test the harness while watching injector resistance or a noid light to catch intermittent opens
- 6 Repair or replace the damaged section of harness and clear the code
- 7 If wiring and injector test good, test the PCM driver circuit or substitute a known-good PCM for diagnosis



Why cylinder 5 injector opens are often misdiagnosed

- A P1275 can set intermittently from a harness that only opens when the engine moves under torque, so a static resistance test at idle may pass and send you chasing the wrong part.
- The code does not always mean the injector itself is bad; chafed wiring near the intake or valve cover is a very common cause on older Ford engines.
- Technicians sometimes replace the injector only to find the connector pin has backed out of the shell, which creates the same open circuit and sets the code again immediately.
- A noid light test at the cylinder 5 connector proves the PCM is commanding the injector but does not prove the injector coil is good, so always pair it with a resistance check.
- If the open is on the low-side driver inside the PCM, the injector will test fine and the harness will test fine, which is the trap that leads to unnecessary injector replacement.

Can I keep driving with P1275?

You can drive short distances to a repair shop, but avoid heavy acceleration and long trips because a dead cylinder dumps unburned fuel into the catalytic converter and can overheat it. If the check engine light is flashing, stop driving and have the vehicle towed.

Tools that help

- Digital multimeter with resistance and continuity modes
- Noid light or injector test light
- Wire piercing probes or back-probe pins
- Factory wiring diagram for the specific Ford model
- Scan tool capable of reading Ford-specific codes and misfire data

Reading P1275

P	Powertrain: engine, transmission and emissions.
1	Manufacturer-specific code (Ford): its meaning depends on the make.
2	Fuel and air metering (injector circuits).
75	The exact fault within that area.

Often seen with

P1276 Accelerator Pedal Positioning Sensor 1 Circuit · **P1277** Accelerator Pedal Position Sensor 1 Circuit Low Voltage · **P1276** Cylinder 6 High To Low Side Open · **P1277** Cylinder 7 High To Low Side Open · **P1276** Accelerator Pedal Position (APP) Sensor 1 Performance · **P1277** Accelerator Pedal Position Sensor 1 Circuit Low Voltage · **P0205** Injector Circuit/Open - Cylinder 5 · **P0305** Cylinder 5 Misfire Detected · **P0355** Ignition Coil 'E' Primary/Secondary Circuit



See it working

Watch the animated explainer [How a Wideband Air-Fuel Sensor Works](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/ford-p1275/>

