

# 5 COMMON CHECK ENGINE LIGHT CODES

When the dreaded check engine light is on, it feels like almost anything could be wrong with your vehicle. Thankfully, it's easy to read the codes by plugging a diagnostic reader into the OBD-II port. Here are five common codes and what you need to know about them.



## P0128

### COOLANT THERMOSTAT (LOW TEMP)

#### SYMPTOMS

- Poor fuel economy
- Low reading on temp gauge
- High idle speed

#### POSSIBLE CAUSES

- Stuck thermostat (this is the most common cause)
- Faulty engine coolant temperature sensor
- Faulty, damaged or corroded wiring for engine coolant temp sensor



## P0300

### RANDOM/MULTIPLE CYLINDER MISFIRE

#### SYMPTOMS

- Poor fuel economy
- Jerking, bucking, rough running
- Strong smell of fuel in exhaust
- Rough idle

#### POSSIBLE CAUSES

- Failed ignition coil
- Worn spark plugs
- Clogged or failed fuel injector
- Loose components
- Problem with a spark plug, fuel injector or engine ground wire
- Low fuel pressure
- Internal engine problems
- Defective sensors



## P0420

### CATALYTIC CONVERTER LOW EFFICIENCY

#### SYMPTOMS

- Poor acceleration
- Sulfur or "rotten egg" smell
- Poor fuel economy
- Failed emissions test

#### POSSIBLE CAUSES

- Failed element inside the catalytic converter
- Exhaust system rust-through, damage or leaks
- Coolant, raw fuel from a misfire or oil burning
- Obstruction in the cat
- Bad O2 sensor



## P0455

### EVAPORATIVE EMISSION SYSTEM LARGE LEAK

#### SYMPTOMS

- Possible fuel smell
- Excessive fuel consumption

#### POSSIBLE CAUSES

- Loose or faulty gas cap
- Cracked hoses or filler neck
- Failed charcoal canister
- Faulty purge valve

#### PRO TIP

Check to be sure the gas cap is tight before spending time and/or money on diagnosing other parts.



## P0456

### EVAPORATIVE EMISSION SYSTEM SMALL LEAK

#### SYMPTOMS

- Often no symptoms
- In rare cases, a fuel odor

#### POSSIBLE CAUSES

- Loose or faulty gas cap
- Cracked, loose, damaged, disconnected or degraded hoses
- Dirt obstructing valves
- Faulty purge control valve

# Does Advance Auto Check Engine Light

**Yicheng Fang**



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