



Haynes
shows you how

BMW 3-Series 320i & 320xi (12-14), 325i, 325xi, 330i & 330xi (06) & 328i & 328xi (07-14) Haynes Online Manual

2 Troubleshooting

Fuel pump

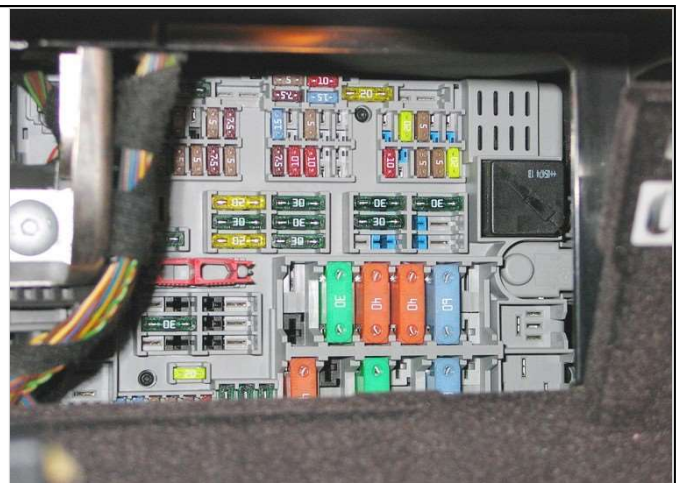
1 The fuel pump is located inside the fuel tank. Sit inside the vehicle with the windows closed, turn the ignition key to ON (not START) and listen for the sound of the fuel pump as it's briefly activated. You will only hear the sound for a second or two, but that sound tells you that the pump is working. Alternatively, have an assistant listen at the fuel filler cap.

Note:

On F-series chassis, the fuel pump starts up automatically every time the door is opened.

2 If the pump does not come on, check the fuel pump fuse and relay (see illustration) . If the fuse and relay are okay, check the wiring back to the fuel pump. If the fuse, relay and wiring are okay, the fuel pump is probably defective. If the pump runs continuously with the ignition key in the ON position, the Powertrain Control Module (PCM) is probably defective. Have the PCM checked by a professional mechanic.

2.2 The fuel pump fuse and relay are located in the interior fuse panel behind the glove box - use the cover legend to locate them



Fuel injection system

Note:

The following procedure is based on the assumption that the fuel pump is working and the fuel pressure is adequate (see [Section 4](#)).

3 Check all electrical connectors that are related to the system. Check the ground wire connections for tightness.

4 Verify that the battery is fully charged (see [Chapter 5](#)).

5 Inspect the air filter element (see [Chapter 1](#)).

6 Check all fuses related to the fuel system (see [Chapter 12](#)).

7 Check the air induction system between the throttle body and the intake manifold for air leaks. Also inspect the condition of all vacuum hoses connected to the intake manifold and to the throttle body.

8 Remove the air intake duct from the throttle body and look for dirt, carbon, varnish, or other residue in the throttle body, particularly around the throttle plate. If it's dirty, clean it with carb cleaner, a toothbrush and a clean shop towel.

9 With the engine running, place an automotive stethoscope against each injector, one at a time, and listen for a clicking sound that indicates operation (see illustration) . **Warning:** *Stay clear of the drivebelt and any rotating or hot components.*

2.9 An automotive stethoscope is used to listen to the fuel injectors in operation



10 If you can hear the injectors operating, but the engine is misfiring, the electrical circuits are functioning correctly, but the injectors might be dirty or clogged. Try a commercial injector cleaning product (available at auto parts stores). If cleaning the injectors doesn't help, replace the injectors.

11 If an injector is not operating (it makes no sound), disconnect the injector electrical connector and measure the resistance across the injector terminals with an ohmmeter. Compare this measurement to the other injectors. If the resistance of the non-operational injector is quite different from the other injectors, replace it.

12 If the injector is not operating, but the resistance reading is within the range of resistance of the other injectors, the PCM or the circuit between the PCM and the injector might be faulty.

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