

**Haynes**  
shows you how**BMW 3-Series (92-98) & Z3 (96-98) Haynes Online Manual**

## 30 Fuel filter replacement

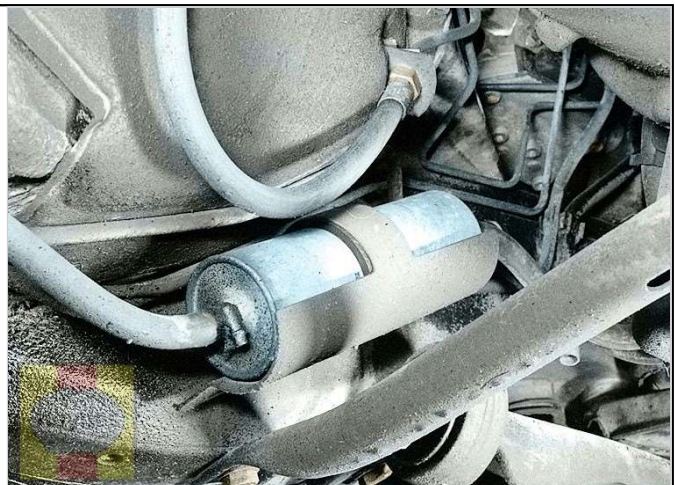
### Warning:

Gasoline is extremely flammable, so take extra precautions when you work on any part of the fuel system. Don't smoke or allow open flames or bare light bulbs near the work area, and don't work in a garage where a gas-type appliance (such as a water heater or clothes dryer) is present. Since gasoline is carcinogenic, wear fuel-resistant gloves when there's a possibility of being exposed to fuel, and, if you spill any fuel on your skin, rinse it off immediately with soap and water. Mop up any spills immediately and do not store fuel-soaked rags where they could ignite. The fuel system is under constant pressure, so, if any fuel lines are to be disconnected, the fuel pressure in the system must be relieved first (see Chapter 4 for more information). When you perform any kind of work on the fuel system, wear safety glasses and have a Class B type fire extinguisher on hand.

### Four-cylinder engine

- 1 Depressurize the fuel system (see [Chapter 4A](#) ).
- 2 The fuel filter is located under the vehicle (see illustration) .

#### 30.2 Fuel filter location - four-cylinder engine



- 3 Jack up the vehicle and support it on axle stands.
- 4 Where applicable, remove the securing clips or nuts and withdraw the fuel filter cover.

5 If possible, clamp the fuel feed and return hoses to minimize fuel loss when the hoses are disconnected.

6 Place a container under the filter to catch escaping fuel, then loosen the hose clamps, and disconnect the fuel hoses from the filter.

7 Loosen the clamp nut or bolt until the filter can be slid from its mounting clamp (see illustration) .

### 30.7 Unscrewing the fuel filter clamp bolt



8 Installation is a reversal of removal, but make sure that the flow direction arrow on the filter points in the direction of fuel flow (i.e., towards the engine), and on completion, pressurize the fuel system with reference to [Chapter 4A](#) .

## Six-cylinder engine

9 Depressurize the fuel system (see [Chapter 4B](#) ).

10 The fuel filter is located on a bracket bolted to the left-hand engine mounting (see illustration) .

### 30.10 Fuel filter location (arrow) viewed from underneath the vehicle - six-cylinder engine



11 Working in the engine compartment, to improve access, remove the air ducting connecting the air mass meter to the throttle body, with reference to [Chapter 4B](#) if necessary.

**12** Locate the fuel filter outlet hose, which connects to the fuel pipe under the intake manifold. Clamp the hose to minimize fuel spillage when the hose is disconnected, then loosen the hose clamp and disconnect the hose from the pipe.

**13** Jack up the vehicle and support on axle stands.

**14** Working under the vehicle, locate the fuel filter inlet hose, which connects to the fuel supply pipe under the left-hand side of the vehicle floor. As before, clamp the hose, then disconnect the hose from the pipe.

**15** Again working under the vehicle, loosen the filter clamp bolt or nut, and slide the filter down from under the vehicle.

**16** Disconnect the fuel hoses from the old filter, and connect them to the new filter.

**17** Installation is a reversal of removal, but make sure that the flow direction arrow on the filter points in the direction of fuel flow (i.e., towards the engine), and on completion, pressurize the fuel system with reference to Chapter 4B.

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