**Special tools required:**

- 13 5 460

**Important!**

Observe country-specific safety regulations.

Ensure adequate ventilation in the place of work!

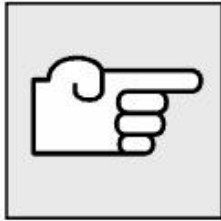
Connect the exhaust and extraction systems to the exhaust tailpipe.

The electric fuel pump must not operate without fuel! After completing repairs but before starting the engine for the first time, fill the fuel tank with min. 5 l fuel through the fuel filler pipe.

Do not damage non-return flap when pulling out extraction hose.

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Before starting the engine for the first time, if the tank has been run dry or drawn off, fill with diesel fuel and turn on ignition for approx. 1 minute. The fuel circuit is thus filled and vented, which results in the engine firing more quickly.



Drawing off fuel:

Start engine and allow to run.

The electric fuel pump runs.

In this way, the fuel is repumped through the suction jet pump and the tank expansion line from the left to the right side of the fuel tank.

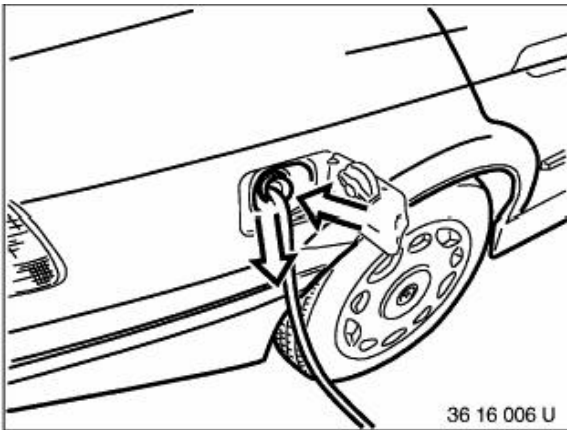
Important!

Once fuel has been drawn off through the fuel filler pipe, there are still residual amounts in the fuel tank, in the fuel filter and in the fuel pump surge chamber.

Note:

Fuel can be drawn out of the left and right sides of the tank through the filler neck, leaving only a small residual amount.

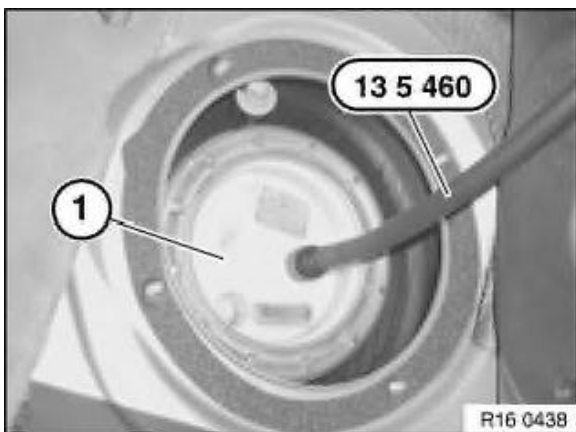
This residual amount in the fuel tank is drawn off after removal of the sensors for the fuel gauge (right/left).



Slide extraction hose of extractor unit, refer to BMW Service Workshop Equipment and Planning Documentation, into the fuel filler pipe, turning in the process if necessary.

Draw off fuel as much as possible with extractor unit, refer to BMW Service Workshop Equipment and Planning Documentation.

Follow drawing off of fuel on fuel gauge in instrument cluster.



Draining fuel filter and surge chamber:

Connect special tool 13 5 460 to connection of fuel filter (1). Connect special tool to extractor unit.

Draw off remaining fuel from filter and surge chamber.

A small amount of fuel still remains in the fuel tank.



Drawing off residual fuel amount from fuel tank:

Important!

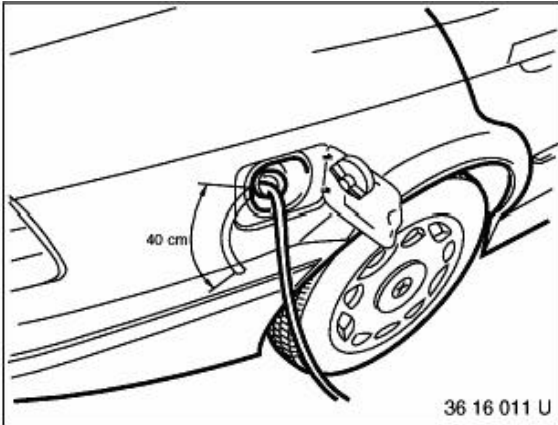
Ensure car interior is adequately ventilated.

Catch dripping fuel in a suitable container.

Remove fuel gauge sensor (right).

Remove fuel gauge sensor (left).

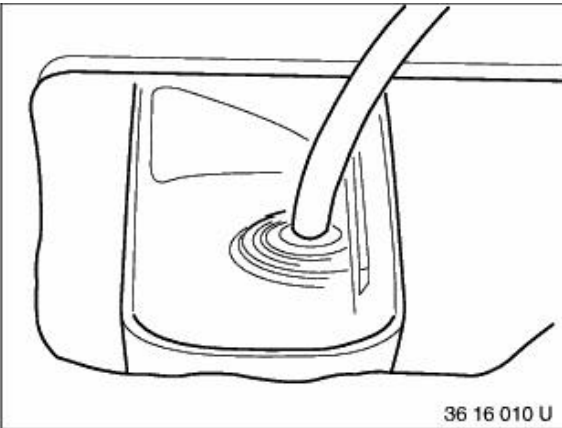
Draw off residual fuel quantity through installation openings.



Fuel filling:

Slide extraction hose of extractor unit, refer to BMW Service Workshop Equipment and Planning Documentation, approx. 40 cm into fuel filler pipe.

Fill fuel from suction extractor unit.



Drawing off after fault in suction jet pump:

Draw off right half of tank completely through fuel filler pipe.

Drain surge chamber and fuel filter.

Remove sensor for fuel gauge (left).

Insert extraction hose through sensor opening in tank, fuel (also residual quantity) can be drawn off.