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Fuel Tank and Lines

6.76

SPECIFICATIONS

Model	320 i	320 i A
<u>Fuel Tank</u>		2-piece (with thermal insulation)
Capacity	1 (gal.)	60 (16) / 7 (2) in reserve
Fuel grade		branded premium grade fuels
Location		underneath rear seats, underneath floor plate, in front of rear axle
Filler neck		in right side panel behind rear wheel opening, closed by flap
Tank cap		screw-on type, not lockable
Immersed fuel level transmitter with suction unit		with central float, for combined level indication and fuel suction as well as return flow
Nominal voltage	V	6 ... 24
Fuel filter		fuel line filter (fully replaceable) ¹⁾ with additional fine mesh filter in immersed level transmitter/suction unit and in fuel delivery pump

1) Replace every 30,000 km (18,000 miles).

Torque Specifications in Nm / kpm (ft. lbs.)

Fuel tank to body mountings	20 ... 24 / 2.0 ... 2.4 (15 ... 17)	Hex. head screw M6, filler tube with flange to wheel house	8 ... 10 / 0.8 ... 1.0 (6 ... 7)
Fuel line filter (full flow filter)	20 ... 23 / 2.0 ... 2.3 (15 ... 16.5)	Activated carbon filter to clip	8 ... 10 / 0.8 ... 1.0 (6 ... 7)
Coupling nut AL 8, hose line from fuel supply line to fuel reservoir	35 ... 40 / 3.5 ... 4.0 (25 ... 29)	Activated carbon filter clip to battery console	8 ... 10 / 0.8 ... 1.0 (6 ... 7)

16 11 030 REMOVING AND INSTALLING FUEL TANK

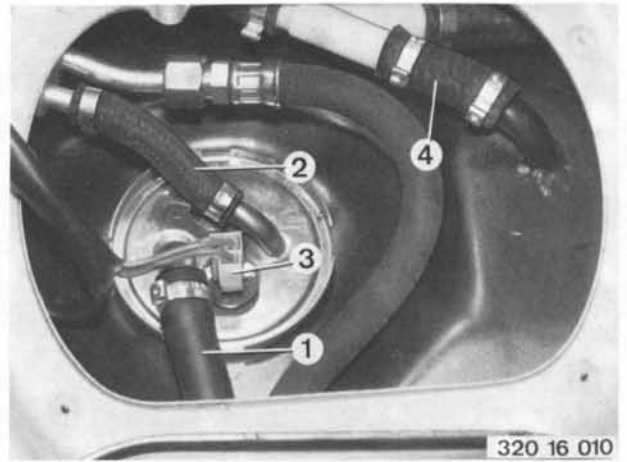
Check level of fuel before removing, and draw off fuel as required.

Remove rear seats and guard plate.

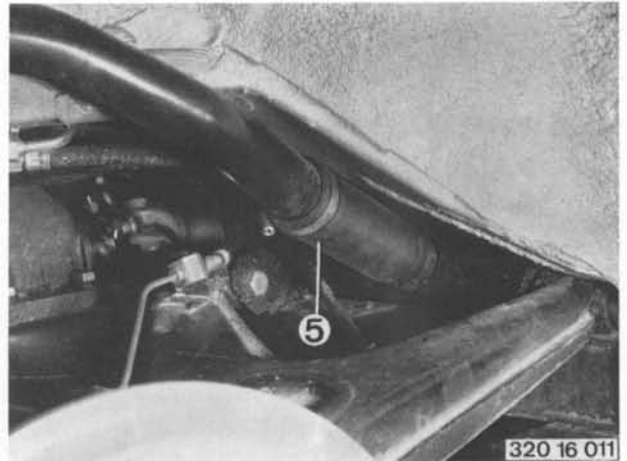
A) Right Tank

Detach hoses and plug.

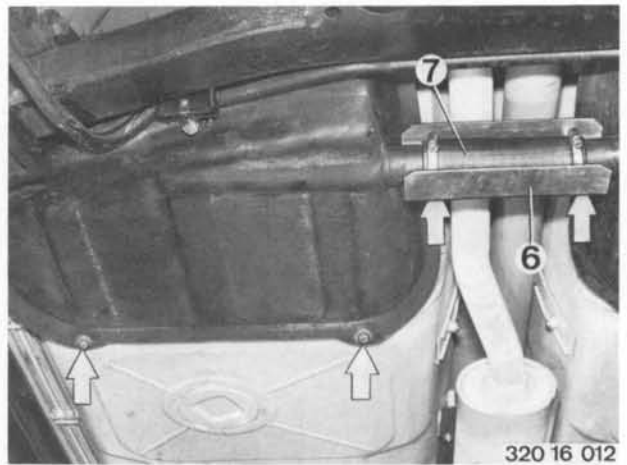
- 1 Suction line
- 2 Return line
- 3 Plug
- 4 Vent line



Detach hose (5) at filler neck.



Remove guard (6) mounting screw.
Loosen connecting hose (7) and take fuel tank off of body.

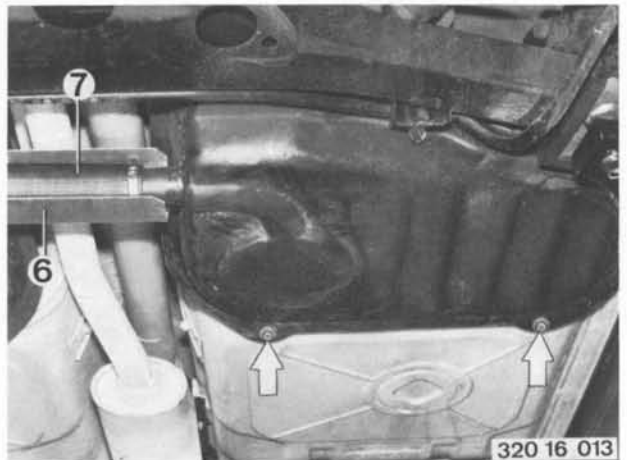


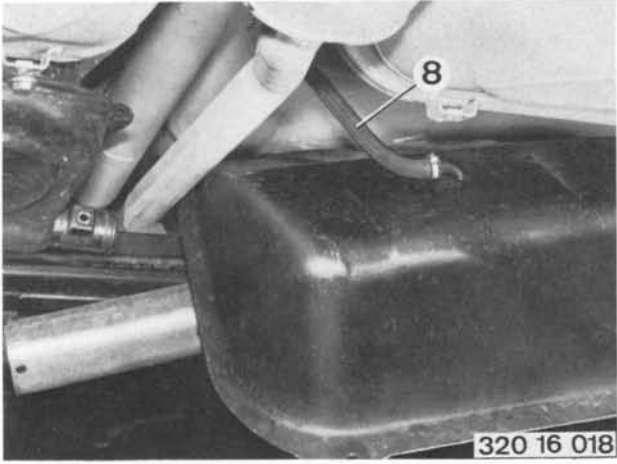
B) Left Tank

Remove guard (6) mounting screw.

Loosen connecting hose (7).

Take fuel tank off of body and remove by tilting forward.





Remove vent line (8).

Installation Note! If vent line is replaced, length of hose should not exceed 600 mm (23.622 in.).

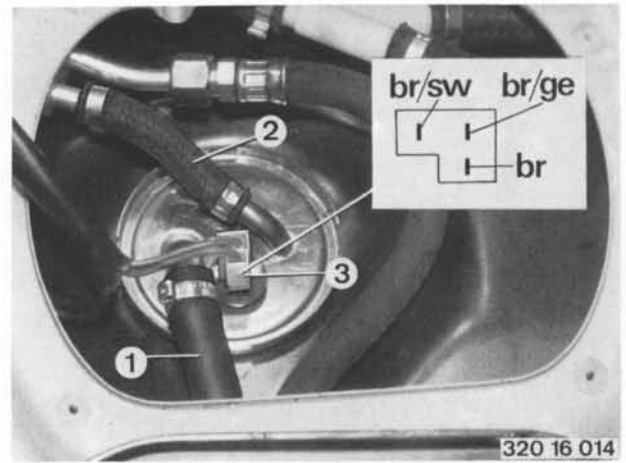
16 12 000 REMOVING AND INSTALLING FUEL SUCTION UNIT

Remove rear seat.
Remove guard plate.
Detach hoses and plug (3) at fuel suction unit.

Installation Note!

- 1 Suction line
- 2 Return line
- 3 Plug

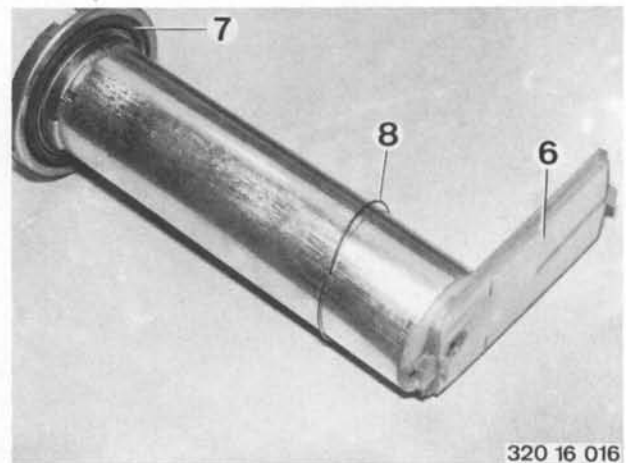
Wire Colors: brown/black
brown/yellow
brown



Unscrew fuel suction unit by turning it to the left with two crossed screwdrivers.



Installation Note! Remove and clean screen (6).
Round cord seal (7) will swell after contacting fuel and must always be replaced whenever unit is removed.
When replacing fuel suction unit, take off the transport holder (8).



16 12 010 REMOVING AND INSTALLING ACTIVATED CARBON FILTER

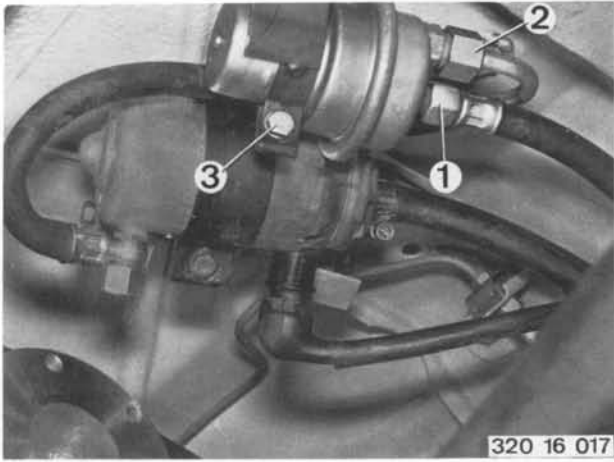
Activated carbon filter does not require servicing.
Remove strap.
Remove hoses (1 and 2).

Installation Note!

- 1 to throttle housing
- 2 to fuel tank vent



16 12 040 REMOVING AND INSTALLING PRESSURE RESERVOIR

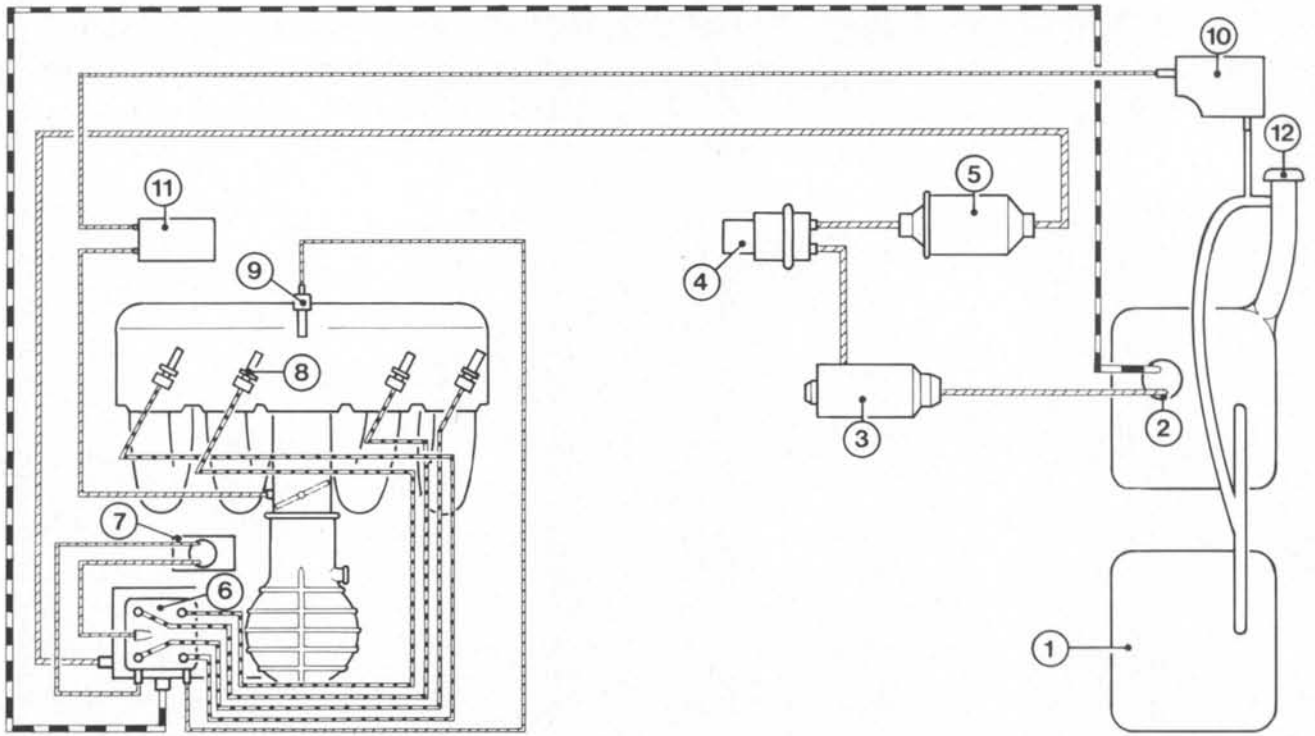


Besides reducing the noise level and smoothing pressure peaks, the pressure reservoir has the task of maintaining a certain cut-off pressure in the system in conjunction with the pump check valve when the engine and/or fuel pump are stopped.

Loosen hose connections (1 and 2).

Remove holding screw (3).

Remove pressure reservoir by pulling toward front.



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Layout of Fuel System

- 1 Fuel tank
- 2 Fuel suction unit
- 3 Fuel pump
- 4 Pressure reservoir
- 5 Fuel filter
- 6 Fuel distributor
- 7 Warm-up regulator
- 8 Injection valve
- 9 Cold start valve
- 10 Fuel compensation tank
- 11 Activated carbon filter
- 12 Tank cap without vent