

## VIDEO TUTORIAL



### ❗ Important!

This replacement procedure can be used for:

BMW 3 Touring (E91) 318d 2.0, BMW 6 Coupe (F13) 640d xDrive 3.0, BMW 3 Saloon (E90) 318d 2.0, BMW 6 Convertible (F12) 640d xDrive 3.0, BMW X3 (E83) xDrive 20 d, BMW X3 (E83) xDrive 30 d, BMW 7 (E65, E66, E67) 730d 3.0, BMW 5 GT (F07) 530d 3.0, BMW 3 Touring (E91) 318i 2.0, BMW 3 Touring (E91) 316d 2.0, BMW 3 Saloon (E90) 320d xDrive 2.0, BMW 6 Convertible (F12) 640d 3.0, BMW 3 Convertible (E93) 325d 3.0, BMW 6 Coupe (F13) 640d 3.0, BMW 3 Saloon (E90) 320d 2.0, (+ 23)

The steps may slightly vary depending on the car design.

## REPLACEMENT: FUEL FILTER – BMW E90. TOOLS YOU NEED:



- All-purpose cleaning spray
- Drive socket # 8
- Drive socket # 13
- Torx bit T20
- Fluid container
- Flat screwdriver
- Crow bar
- Ratchet wrench
- Wheel chock

**BUY TOOLS**

### Replacement: fuel filter – BMW E90. Tip:

- Ensure adequate ventilation of the workplace. Fuel vapors are poisonous.
- All work should be done with the engine stopped.

## REPLACEMENT: FUEL FILTER – BMW E90. RECOMMENDED SEQUENCE OF STEPS:

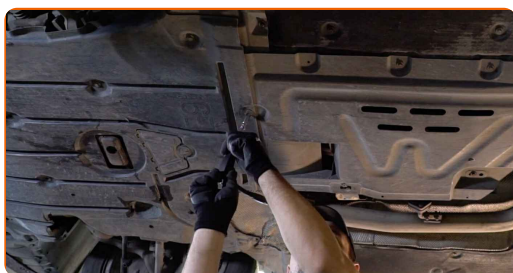
1 Open the fuel door.

2 Unscrew the fuel filler cap.

3 Lift the car using a jack or place it over an inspection pit.



4 Unscrew fixing bolts of the protective cover. Use a drive socket #8. Use a ratchet wrench.



5 Remove the protective cover.



6

Prepare a container for fluids.



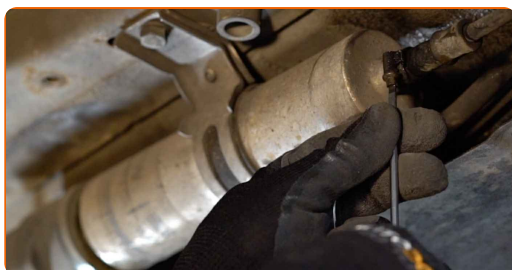
7

Treat the fasteners attaching the tubes to the fuel filter. Use all-purpose cleaning spray.



8

Loosen the fuel filter clamps. Use a flat screwdriver.



9

Remove the snap ring of the fuel pressure regulator retainer clip.



10

Detach the fuel pressure regulator from the fuel filter. Use a crowbar.

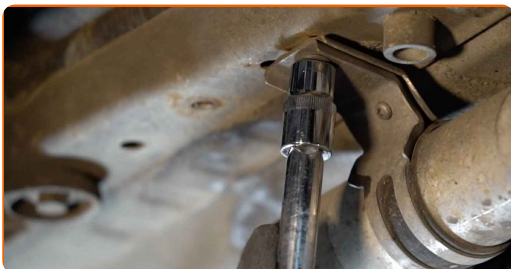


## Replacement: fuel filter – BMW E90. AUTODOC experts recommend:

- Be careful! Fuel may leak from the filter housing and hoses.

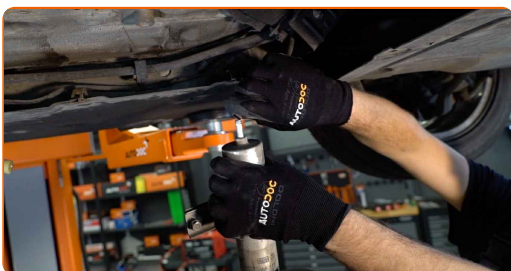
11

Loosen the fuel filter mounting. Use a drive socket #13. Use a ratchet wrench.



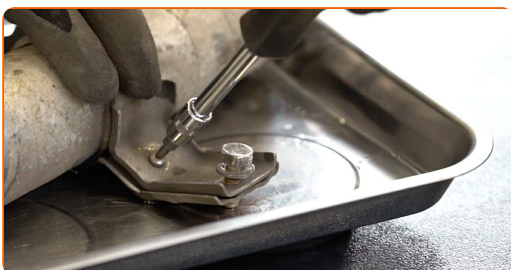
12

Disconnect the fuel supply lines from the fuel filter.



13

Unscrew the fastener of the fuel filter bracket. Use Torx T20. Use a ratchet wrench.





14

Remove the fuel filter. Put the old filter cartridge in the container.



15

Install a new fuel filter.

### Replacement: fuel filter – BMW E90. AUTODOC recommends:

- Remember, it is important not to mix up the input and output of the filter. Arrows on the filter indicate the direction of fuel flow.
- During installation, take care to prevent dust and dirt from getting into the fuel filter housing.
- Attention! Use quality filters – BMW E90.

16

Connect the fuel supply lines to the fuel filter.

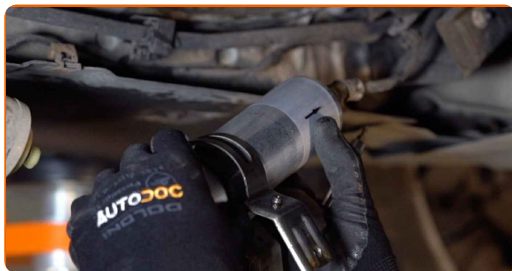


17

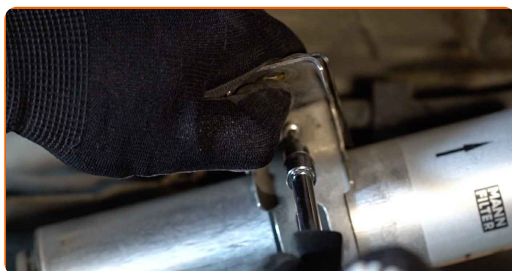
Tighten the fuel supply line fastening. Use a flat screwdriver.



- 18 Install the bracket on the fuel filter.



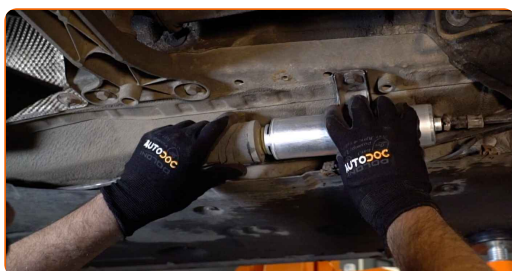
- 19 Tighten the fastener of the fuel filter bracket. Use Torx T20. Use a ratchet wrench.



- 20 Tighten the fuel filter fasteners. Use a drive socket #13. Use a ratchet wrench.



- 21 Attach the fuel pressure regulator to the fuel filter. Install the snap ring of the fuel pressure regulator's retainer clip.



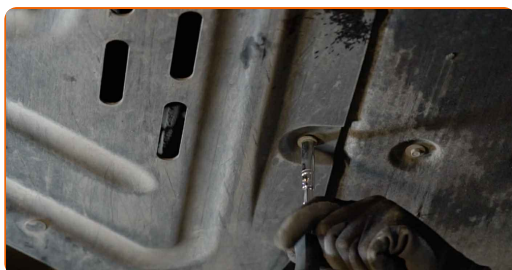
- 22 Take the fluid container away from under the fuel filter.



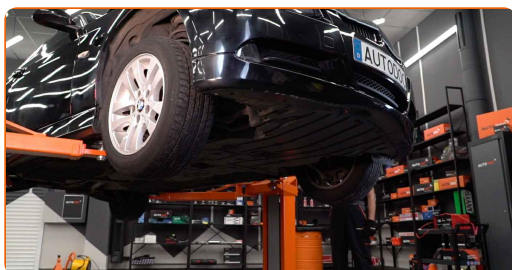
- 23 Install the protective cover.



- 24 Tighten fixing bolts of the protective cover. Use a drive socket #8. Use a ratchet wrench.



- 25 Lower the car.



- 26 Tighten the fuel filler cap.

- 27 Close the fuel door.



### Replacement: fuel filter – BMW E90. AUTODOC experts recommend:

- Before starting off, switch the ignition on and off several times. This should be done to activate the fuel pump to make it pump fuel through the fuel system.

**28**

Run the engine for a few minutes. This is necessary in order to make sure that the component operates properly.

**29**

Shut off the engine.



### Replacement: fuel filter – BMW E90. Tip:

- To protect the environment from pollution, be sure to dispose of the used filters at special collection points.

**WELL DONE!** 👍

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