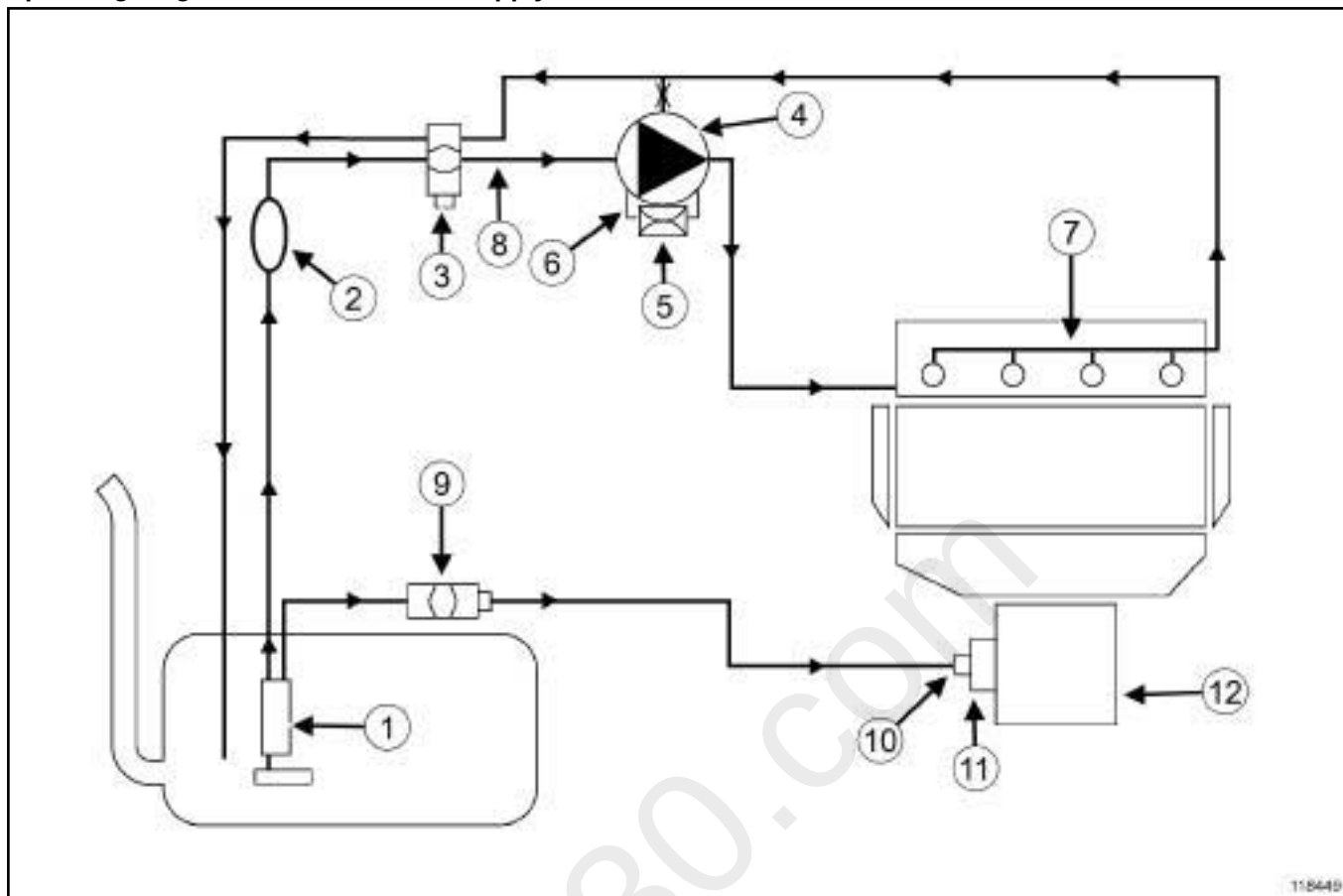


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Operating diagram of the diesel fuel supply circuit



The circuit comprises:

- a pump - sender (1) ,
- a priming bulb (2) ,
- a fuel filter (3) that can be fitted with a water detection sensor,
- a high pressure pump (4) with a built-in mechanical low pressure pump (transfer pump),
- a pressure regulator (5) mounted on the high pressure pump,
- a flow regulator (6) mounted on the high pressure pump,
- an injector rail (7) fitted with a pressure sensor,
- a bleed screw (8) ,
- four injectors,
- various sensors,
- an injection computer,
- a particle filter injector fuel filter (9) ,
- a diesel injector (10) on the catalytic pre-converter,
- a diesel injector cooler (11) ,
- a catalytic pre-converter (12) .

IMPORTANT

Loosening a high-pressure pipe union when the engine is running is strictly prohibited.

WARNING

It is forbidden:

- to dismantle the interior of the pump or injectors.
- to remove the pressure sensor from the fuel rail (because of circuit contamination problems). If the pressure sensor fails, the pressure sensor, the rail and the five high pressure pipes must be replaced,
- to dismantle the flow regulator solenoid valve and the pressure regulator solenoid valve on the high pressure pump.

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REMOVAL

I - REMOVAL PREPARATION OPERATION

☐ Remove:

- the front right-hand wheel (see **Wheel: Removal - Refitting**) (MR 392, 35A, Wheels and tyres),
- the right-hand wheel arch liner (see **Front wheel arch liner: Removal - Refitting**) (MR 393, 55A, Exterior protection).

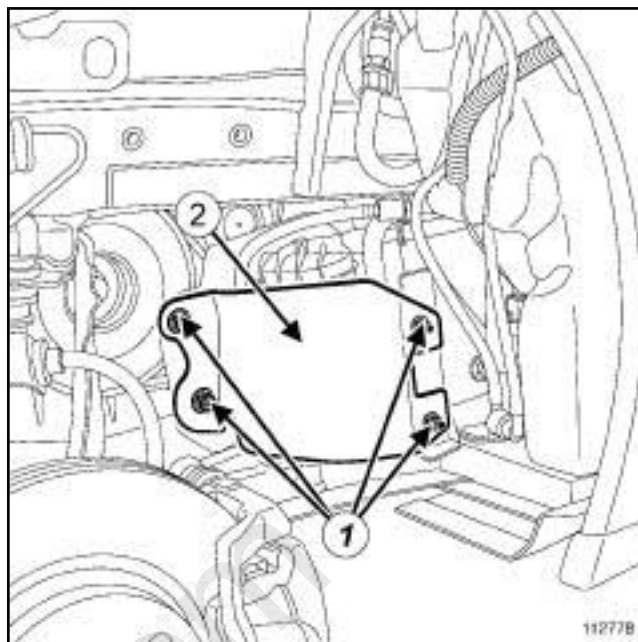
II - OPERATION FOR REMOVAL OF PART CONCERNED

- ☐ The safety advice and cleanliness instructions must be respected (see **13B, Diesel injection, Diesel injection: Precautions for the repair**, page **13B-1**).

Note:

Use only wipes (**77 11 211 707**) to clean the filter and pipes once the fuel circuit is opened.

Be sure to have the new diesel filter to hand before starting work.



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☐ Remove:

- the mounting nuts (**1**) from the diesel filter protection plate (**2**),
- the diesel filter protection plate.

IMPORTANT

Wear gloves during the operation.

IMPORTANT

During this operation, it is essential to:

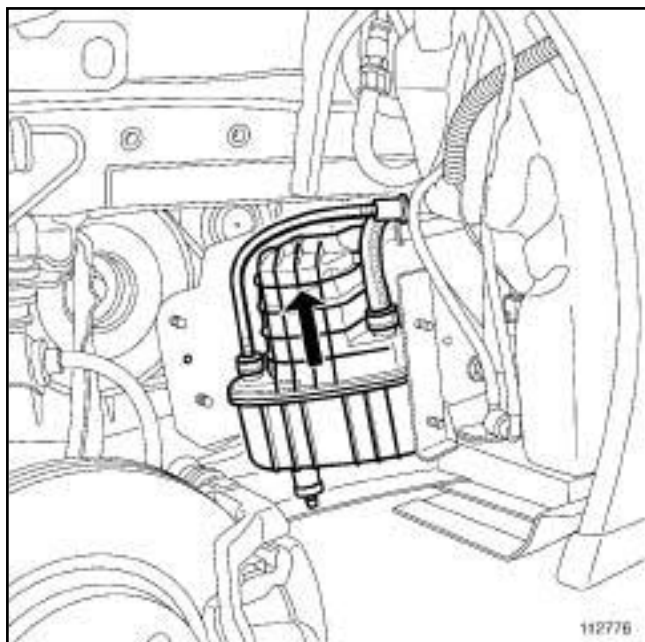
- refrain from smoking or bringing red hot objects close to the working area,
- beware of fuel splashes when disconnecting the union,
- protect sensitive areas from fuel outflow.

FUEL SUPPLY

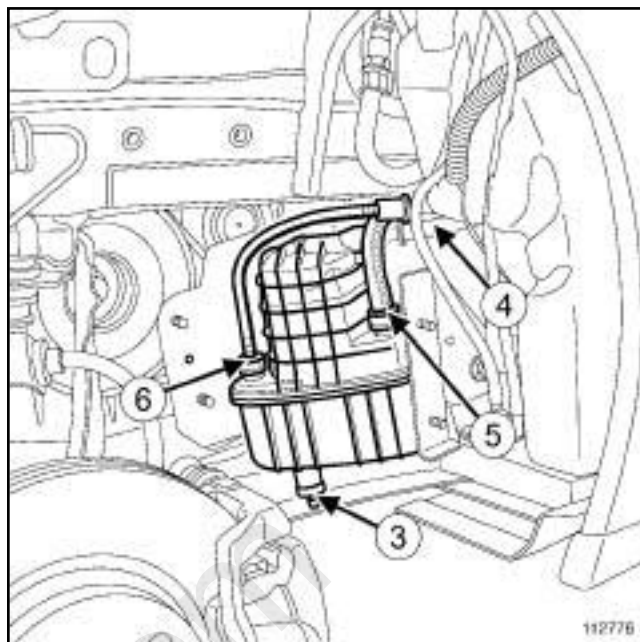
Diesel filter: Removal - Refitting

13A

K9K



- ☐ Push the diesel filter upwards to remove it from its holder.



- ☐ Place a container under the water separator bleed screw (3) to collect the diesel fuel.
- ☐ Open the bleed screw (3) .
- ☐ Disconnect the pipe unions on the diesel filter in the following order: (4) , (5) then (6) .

WARNING

Prevent the hose unions from coming into contact with a polluted environment.

- ☐ Remove the diesel filter.
- ☐ Let the diesel fuel flow out from the various pipes into a container.

Note:

Make preparations for fuel outflow.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- ☐ Connect the pipe unions on the diesel filter (only remove the caps at the last moment).
- ☐ Refit:
 - the diesel filter,
 - the protection plate for the diesel filter.