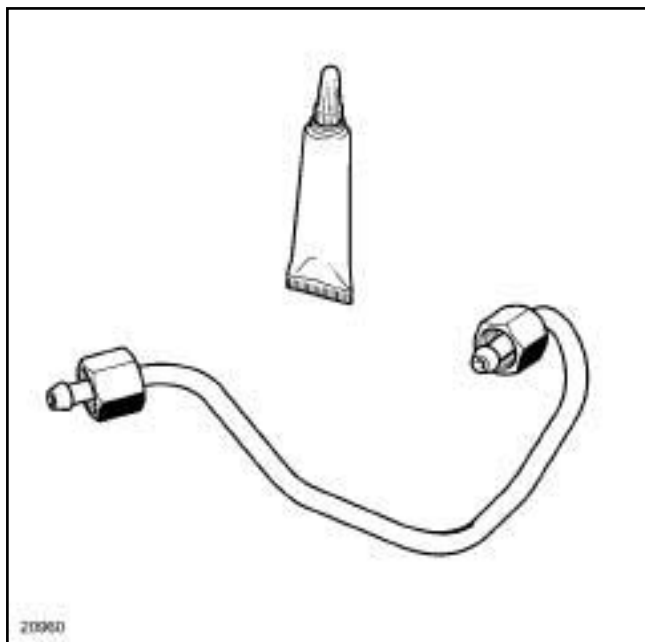


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❑

WARNING

Before fitting a new high pressure pipe, lightly lubricate the nut threads with oil from the applicator provided with the new part.

Be careful not to allow oil into the high pressure pipe.

Do not lubricate high pressure pipes supplied without an applicator, as these high pressure pipes are self-lubricating.

WARNING

Do not remove the blanking plugs from each component until the last moment.

❑ If replacing the four high pressure pipes:

- loosen the injector rail nuts by a few turns (the injector rail should be loose).

II - REFITTING OPERATION

❑ Remove the blanking plugs.

❑ Insert the high pressure pipe olive in the injector high pressure inlet taper.

❑ Position the high pressure pipe olive in the high pressure outlet taper of the injector rail.

❑ Finger tighten the high pressure pipe nuts, starting with the nut at the injector end.

❑ Slightly pretighten the high pressure pipe nuts.

Note:

The assembly order of the « rail-injector » high pressure pipes is not important.

❑ Mount a new clip provided with the new high pressure pipe.

❑ If replacing the four high pressure pipes, torque tighten the **injector rail nuts (28 N.m)**.

❑ Torque tighten in order the « **pump - rail** » **high pressure pipe nuts (28 N.m)** :

- injectors end,

- on the injector rail end.

Note:

Tighten each pipe fully before moving on to the next pipe.

III - FINAL OPERATION

❑ Refit the neck on the injector rail.

❑ Connect the connectors of:

- the injectors,

- the heater plugs.

❑ Insert the dipstick.

❑ Refit the dipstick guide.

❑ Torque tighten the **dipstick guide and filler neck nuts on the high pressure rail (21 N.m)**.

❑ Connect the battery (see **Battery: Removal - Refitting**) (80A, Battery).

❑ Prime the diesel circuit using the priming pump.

❑ Check the high pressure circuit (see **13B, Diesel injection, High pressure pipe: Check**, page **13B-18**) .

❑ Refit:

- the air filter unit (see **12A, Fuel mixture, Air filter unit: Removal - Refitting**, page **12A-6**) .

- the engine cover,

DIESEL INJECTION

Injector rail: Removal - Refitting

13B

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Equipment required

Diagnostic tool

Tightening torques

injector rail nuts	28 N.m
nuts of the neck and dipstick guide on the injector rail	21 N.m

IMPORTANT

To avoid all risk of damage to the systems, apply the safety and cleanliness instructions and operation recommendations before carrying out any repair (see **Diesel injection: Precautions for the repair**) .

IMPORTANT

Before starting any work on the injection circuit, use the **Diagnostic tool** to check:

- that the injector rail is not under pressure,
- that the fuel temperature is not too high.

It is essential to respect the safety and cleanliness advice whenever work is carried out on this system.

Working on the circuit with the engine running is strictly forbidden.

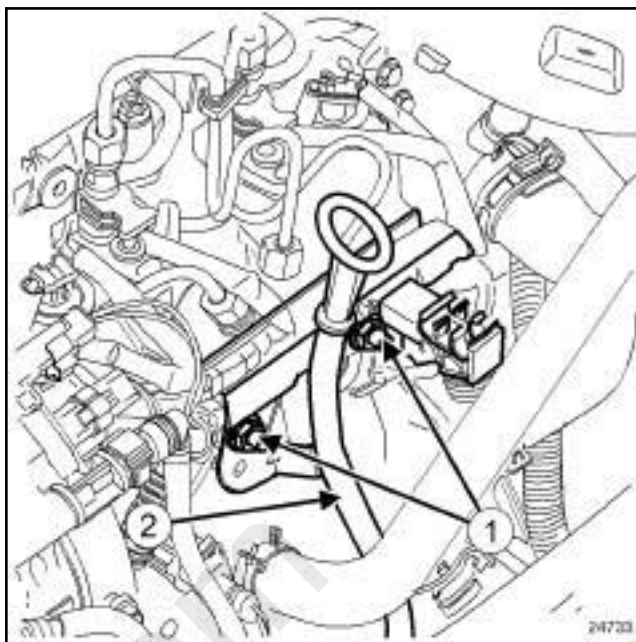
IMPORTANT

Wear leaktight gloves (Nitrile type) for this operation.

REMOVAL

I - REMOVAL PREPARATION OPERATION

- ☐ Disconnect the battery (see **Battery: Removal - Refitting**) (80A, Battery).
- ☐ Remove the front engine cover.



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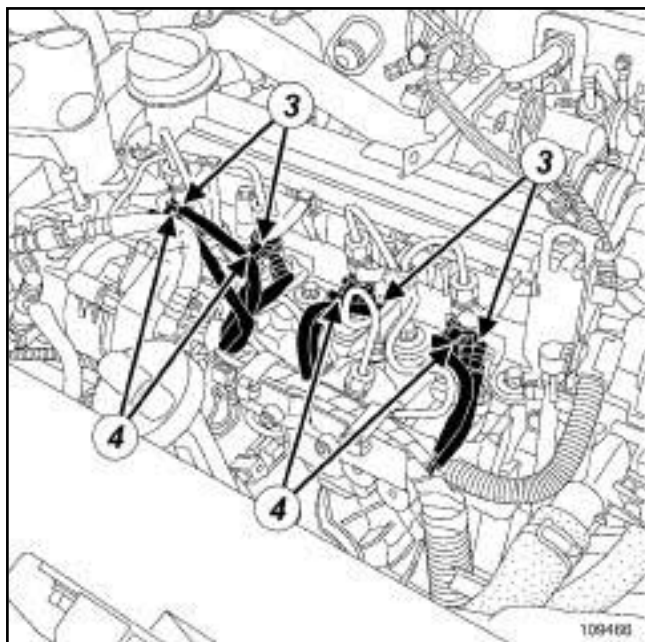
- ☐ Remove the nuts (1) from the dipstick guide and neck.
- ☐ Put the engine oil dipstick guide to one side (2) .

DIESEL INJECTION

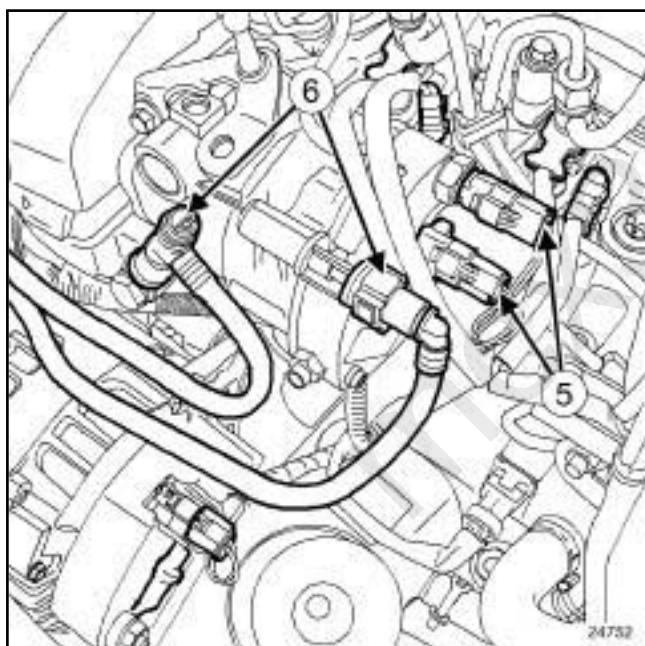
Injector rail: Removal - Refitting

13B

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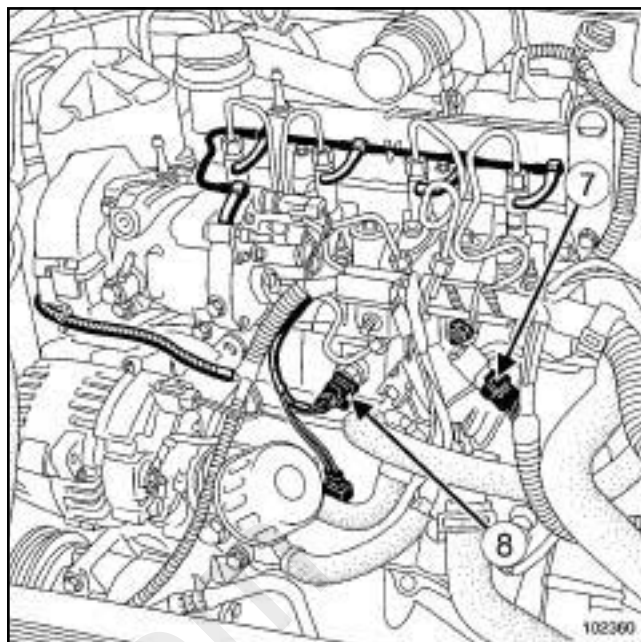


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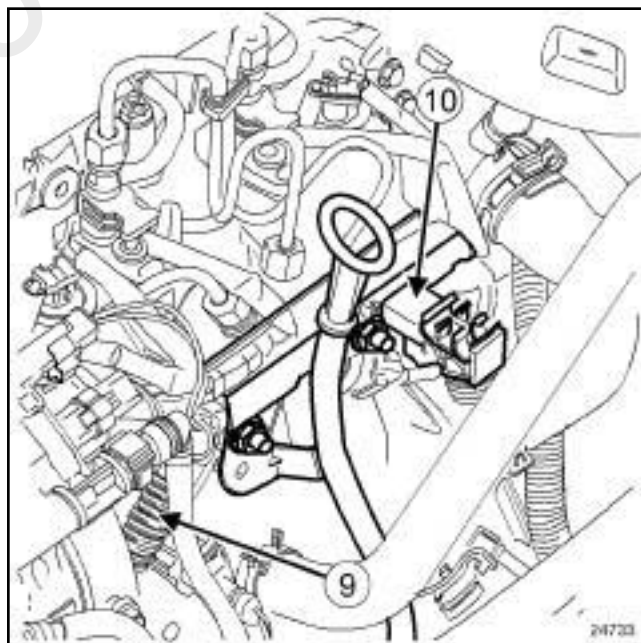
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- ❑ Disconnect:
 - the heater plugs (3) ,
 - the injectors (4) ,
 - the connectors on the high pressure pump (5) ,
 - the diesel return pipe connecting the injectors to the high pressure injection pump.
- ❑ Clean the diesel supply and return pipes (see **Diesel injection: Precautions for the repair**) .
- ❑ Disconnect the diesel supply and return pipes (6) .
- ❑ Place blanking plugs on the openings.



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- ❑ Disconnect:
 - the pressure sensor (7) from the injector rail,
 - the accelerometer (8) .



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- ❑ Unclamp the engine wiring (9) and place it to one side.
- ❑ Remove:
 - the neck (10) located on the spherical injector rail,
 - the high pressure pipe between the high pressure pump and the injector rail (see **13B, Diesel injection, High pressure pipe between pump and rail: Removal - Refitting, page 13B-19**) ,