

Coolant pump inlet pipe: Removal - Refitting

K4M

- ☐ Refit the injector rail protector.
- ☐ Fill the cooling system (see **19A, Cooling, Cooling system: Draining - Refilling**, page 19A-6) .
- ☐ Connect the battery (see **Battery: Removal - Refitting**) (80A, Battery).
- ☐ Bleed the cooling system (see **19A, Cooling, Cooling system: Draining - Refilling**, page 19A-6) .

Expansion bottle: Removal - Refitting

Special tooling required

Ms. 583	Pipe clamps.
Mot. 1448	Remote operation pliers for hose clips.

Tightening torques

expansion bottle nuts	8 N.m
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IMPORTANT

The circuits are designed to be pressurised, so be careful at high temperatures (risk of serious burns).

Do not remove the cap from the expansion bottle while the engine is hot.

Take care when carrying out a repair under the bonnet, as the radiator fan(s) may start to operate without warning.

Do not open the bleed screw(s) with the engine running.

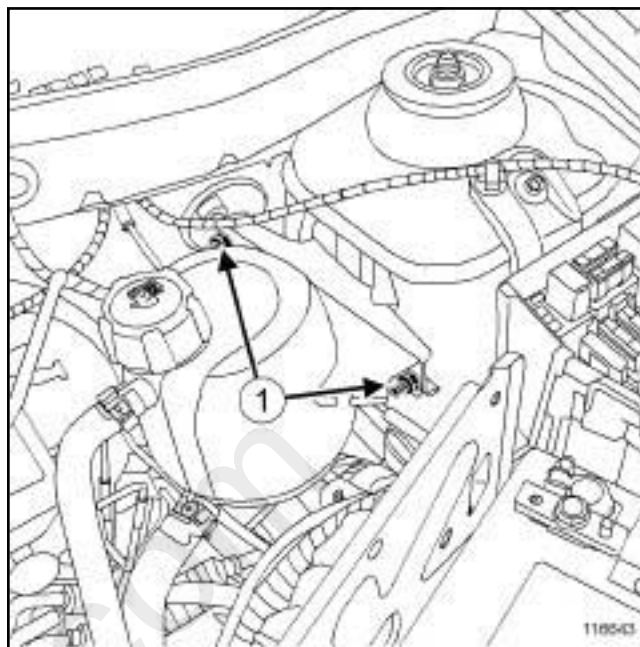
WARNING

The coolant helps to keep the engine running properly (heat exchange).

The system does not operate using pure water.

WARNING

If the coolant is leaking from the expansion bottle cap, replace the valve.

REMOVAL**REMOVAL OPERATION**

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- ☐ Remove the expansion bottle nuts (1) .
- ☐ Move aside the expansion bottle.
- ☐ Position hose clamps (**Ms. 583**) on the expansion bottle hoses.
- ☐ Remove the expansion bottle cap.
- ☐ Drain the coolant from the expansion bottle.
- ☐ Remove the following using the tool (**Mot. 1448**) or « CLIC » clip pliers:
 - the clamp of the top hose of the expansion bottle,
 - the clamp of the bottom hose of the expansion bottle.
- ☐ Disconnect:
 - the expansion bottle bottom hose,
 - the expansion bottle top hose.
- ☐ Remove the expansion bottle .

REFITTING**I - REFITTING PREPARATION OPERATION**

- ☐ Always replace the « CLIC » type clips.

II - REFITTING OPERATION

- ☐ Connect:
 - the expansion bottle top hose,