

Coolant pump inlet pipe: Removal - Refitting

D4F, and 784

Special tooling required

Mot. 1448 Remote operation pliers for hose clips.

Tightening torques

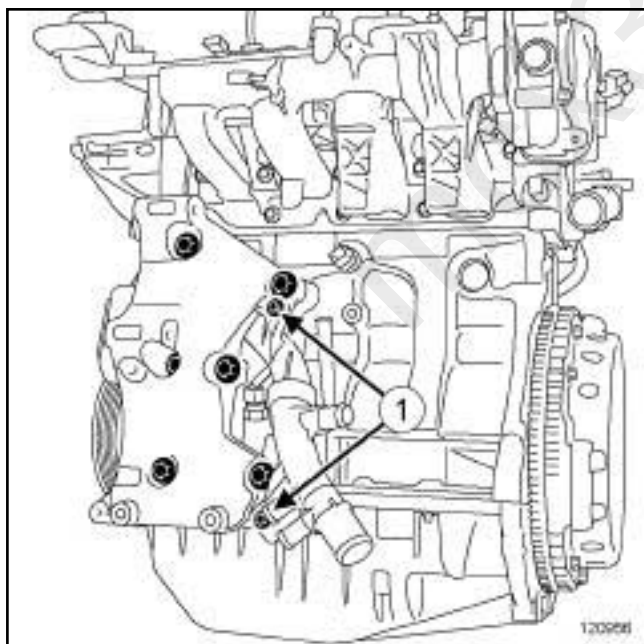
coolant pump inlet pipe bolts **10 Nm**

REMOVAL

I - REMOVAL PREPARATION OPERATION

- ☐ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (MR 392, 02A, Lifting equipment).
- ☐ Remove the engine undertray.
- ☐ Drain the cooling system (see **19A, Cooling, Cooling system: Draining - Refilling**, page 19A-16) .

II - OPERATION FOR REMOVAL OF PART CONCERNED



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- ☐ Remove the coolant pump inlet pipe hose clips using the **(Mot. 1448)**.
- ☐ Disconnect the coolant pump inlet pipe hoses.
- ☐ Remove:
 - the bolts **(1)** from the coolant pump inlet pipe,
 - the coolant pump inlet pipe.

REFITTING

I - REFITTING PREPARATIONS OPERATION

- ☐ Always replace the coolant pump inlet pipe seal.
- ☐ Clean the coolant pump inlet pipe bearing faces.

II - REFITTING OPERATION FOR PART CONCERNED

- ☐ Refit:
 - the coolant pump inlet pipe,
 - the coolant pump inlet pipe bolts.
- ☐ Torque tighten the **coolant pump inlet pipe bolts (10 Nm)**.
- ☐ Connect the coolant pump inlet pipe hoses.
- ☐ Refit the coolant pump inlet pipe hose clips using the **(Mot. 1448)**.

III - FINAL OPERATION.

- ☐ Fill and bleed the cooling system (see **19A, Cooling, Cooling system: Draining - Refilling**, page 19A-16) .
- ☐ Refit the engine undertray.

Expansion bottle: Removal - Refitting

Special tooling required

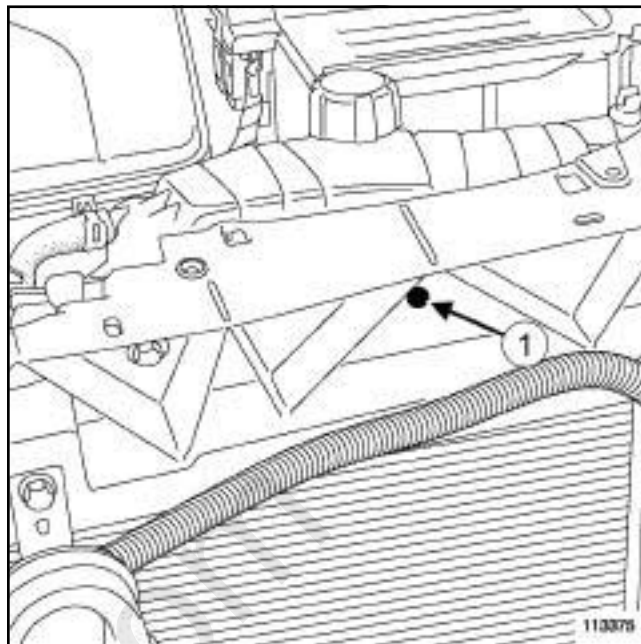
Mot. 1448	Remote operation pliers for hose clips.
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REMOVAL

I - REMOVAL PREPARATION OPERATION

- ☐ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (MR 393, 02A, Lifting equipment).
- ☐ Disconnect the battery (see **Battery: Removal - Refitting**) (MR 392, 80A, Battery).
- ☐ Remove:
 - the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection),
 - the engine undertray.

II - OPERATION FOR REMOVAL OF PART CONCERNED



- ☐ Remove the clip (1) .
- ☐ Remove the expansion bottle.
- ☐ Fit hose clamps to the expansion bottle hoses.
- ☐ Using the **(Mot. 1448)**, remove:
 - the clamp of the bottom hose of the expansion bottle,
 - the clamp of the top hose of the expansion bottle,
- ☐ Disconnect:
 - the expansion bottle's bottom hose,
 - the expansion bottle's top hose.
- ☐ Remove the expansion bottle.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- ☐ Connect:
 - the expansion bottle's top hose,
 - the expansion bottle bottom hose.
- ☐ Using the **(Mot. 1448)**, refit:
 - the clamp of the top hose of the expansion bottle,
 - the clamp of the bottom hose of the expansion bottle.
- ☐ Remove the hose clamps.

Expansion bottle: Removal - Refitting

☐ Refit:

- the expansion bottle,
- the expansion bottle clip.

II - FINAL OPERATION.

☐ Top-up the coolant level in the expansion bottle.

☐ Refit:

- the engine undertray,
- the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection).

☐ Connect the battery (see **Battery: Removal - Refitting**) (MR 392, 80A, Battery).

Expansion bottle: Removal - Refitting

D4F, and 784

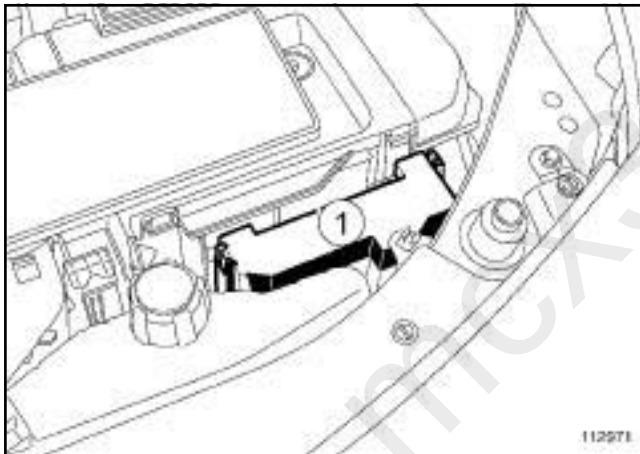
Special tooling required

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

REMOVAL

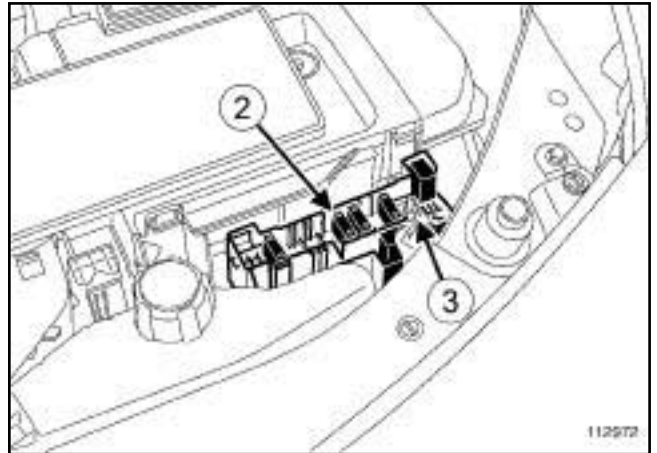
I - REMOVAL PREPARATION OPERATION

- ☐ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (MR 392, 02A, Lifting equipment).
- ☐ Disconnect the battery (see **Battery: Removal - Refitting**) (MR 392, 80A, Battery).
- ☐ Remove:
 - the engine undertray,
 - the front bumper (see **Front bumper: Removal - Refitting**) (MR 393, 55A, Exterior protection).



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- ☐ Remove the cover (1) from the power feed fuse board mounting.



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- ☐ Remove the green fuse (2) (30 A).
- ☐ Detach the fuse connector from the fuse mounting.
- ☐ Remove the power wiring harness nut (3) from the fuse mounting.
- ☐ Remove the power wiring harness from the fuse mounting.
- ☐ Detach the fuse board.
- ☐ Remove the air filter box air inlet pipe.