

ELECTRIC COOLANT PUMP: REMOVAL - REFITTING



Note, one or more warnings are present in this procedure



Special tooling required

Remote operation pliers for hose clips.

Mot. 1448

Pipe clamps.

Ms. 583

Equipment required

Diagnostic tool



WARNING

■ To avoid all risk of damage to the systems, apply the safety and cleanliness instructions and operation recommendations before carrying out any repair:

- [Vehicle: Precautions for the repair](#) .



WARNING

When working in the engine compartment, take care as the radiator fan(s) may start up unexpectedly (risk of being cut).

■ To avoid any risk of serious burns when the engine is hot:

- do not open the expansion bottle cap,
- do not drain the cooling system,
- do not open the bleed screw(s).



CAUTION

Prepare for the flow of fluid, and protect the surrounding components.

Location and specifications (tightening torques, parts always to be replaced, etc.)[\(see 19A, Cooling, Coolant circuit assembly: Exploded view\)](#) .

1. REMOVAL PREPARATION OPERATION

- Position the vehicle on a two-post lift [Vehicle: Towing and lifting](#) .

WARNING

DANGER: HIGH VOLTAGE VEHICLE.



Risks of serious burns or electric shocks that may prove fatal.

Before carrying out any work on the vehicle, it is essential that you follow the instructions regarding vehicle lockout. This work must be carried out by an employee who is qualified and authorised to work on a high-voltage onboard network [Vehicle: Precautions for the repair](#) .

- Lockout the vehicle [Vehicle: Lockout - Removal of lockout](#) .

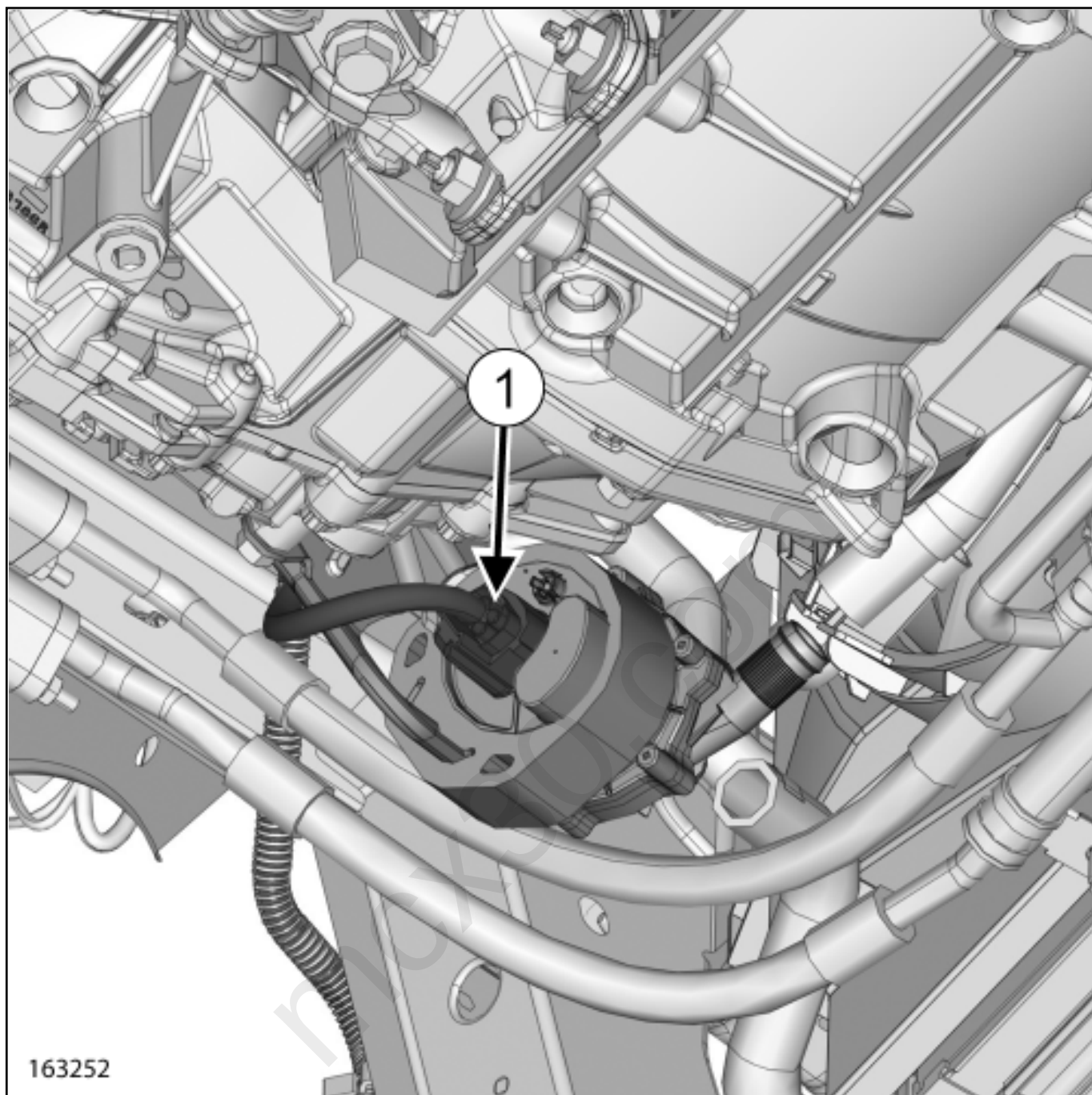
- Remove the engine undertray.

2. REMOVAL OPERATION

- Position tools Pipe clamps. (Ms. 583) on the electric coolant pump cooling hoses ([see 19A, Cooling, Coolant circuit assembly: Exploded view](#)) .

- Separate the clips on the cooling hoses of the electric coolant pump using the tool Remote operation pliers for hose clips. (Mot. 1448) ([see 19A, Cooling, Coolant circuit assembly: Exploded view](#)) .

- Disconnect the electric coolant pump cooling hoses ([see 19A, Cooling, Coolant circuit assembly: Exploded view](#)) .



- Disconnect the electric coolant pump connector(1) .
- Unclip the electric coolant pump from its support.
- Remove the electric coolant pump([see 19A, Cooling, Coolant circuit assembly: Exploded view](#)) .

REFITTING

1. REFITTING OPERATION

- Proceed in the reverse order to removal.
- Remove the lockout of the vehicle [Vehicle: Lockout - Removal of lockout](#) .
- Bleed the cooling system ([see 19A, Cooling, Cooling system: Draining - Refilling](#)) .
- Apply the After repair procedure using the Diagnostic tool [Diagnostic tool : Use](#) :
 - Computer concerned by the After repair procedure:
 - "Electric vehicle central control unit" ,
 - Component controlled by this computer concerned by the After repair procedure:
 - "Electric coolant pump" .



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XSL version : 3.02 du 22/07/11

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