

ENGINE COOLING FAN ASSEMBLY: REMOVAL - REFITTING



Note, one or more warnings are present in this procedure



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.)[\(see 19A, Cooling, Coolant circuit assembly: Exploded view\)](#) .

REMOVAL

1. REMOVAL PREPARATION OPERATION

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

WARNING

DANGER: HIGH VOLTAGE VEHICLE.



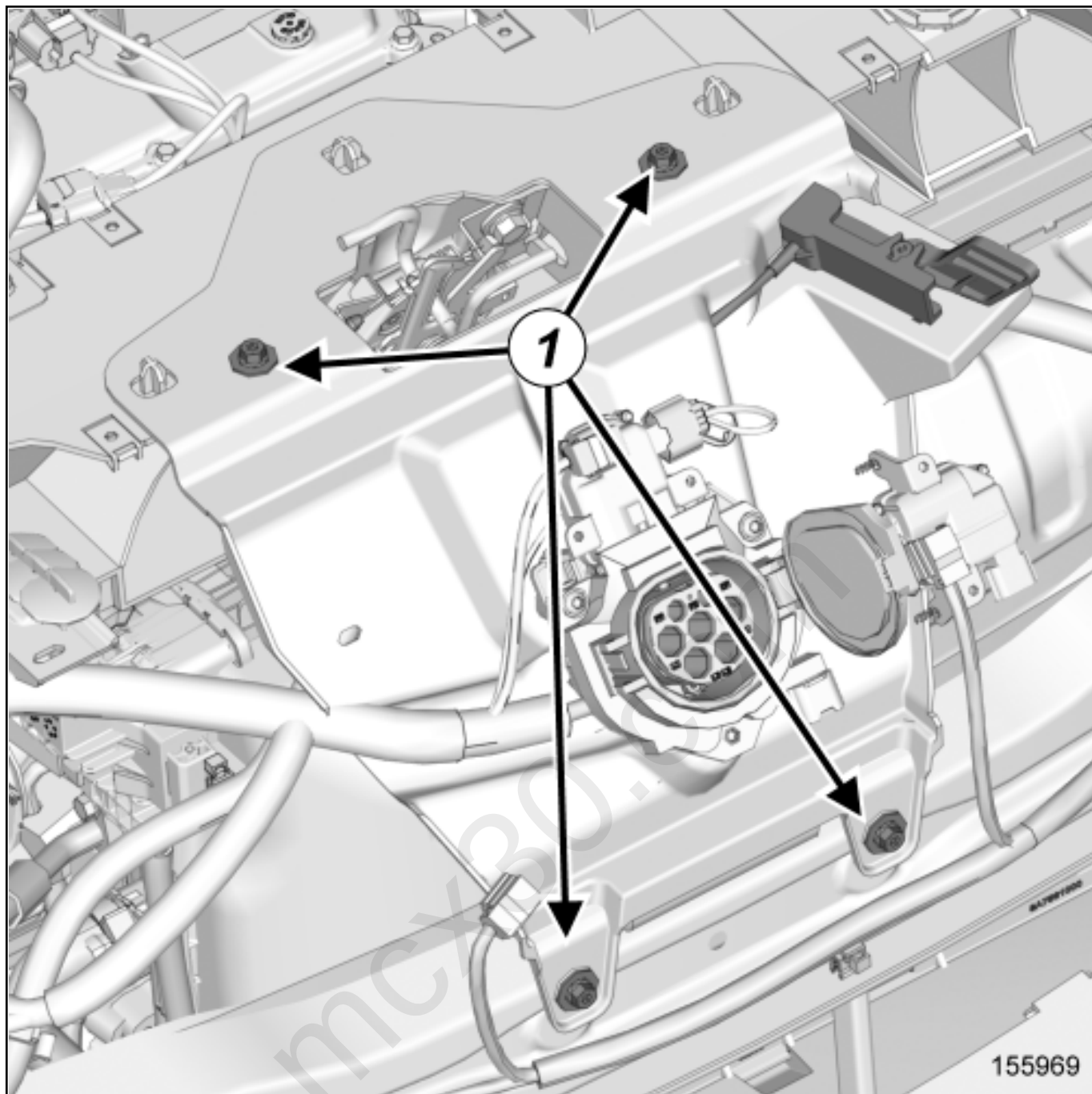
Risks of serious burns or electric shocks that may prove fatal.

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](#) .

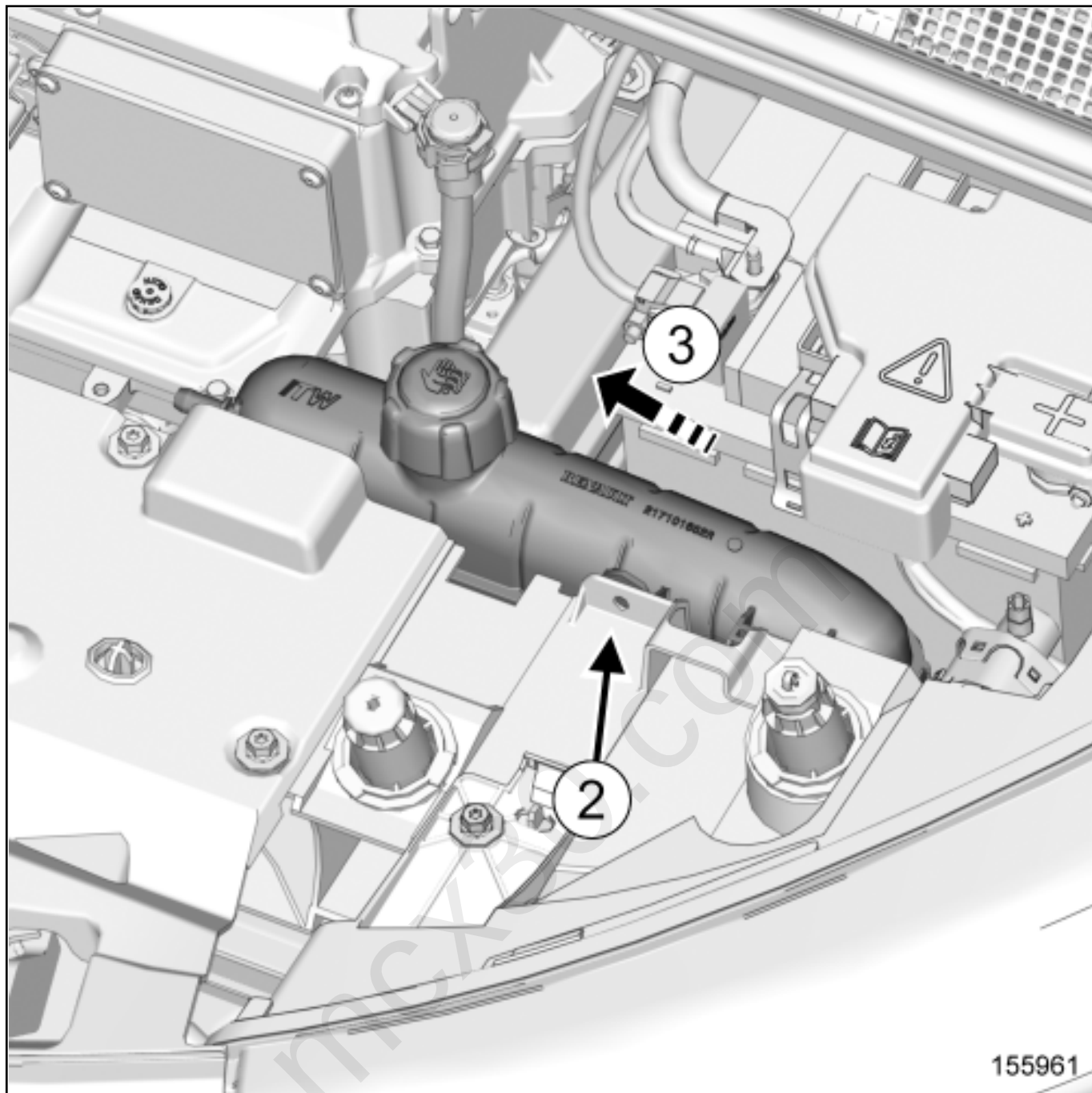
❑ Lockout the vehicle [Vehicle: Lockout - Removal of lockout](#) .

❑ Remove:

- the engine undertray,
- the front wheels [Front hub carrier assembly: Exploded view](#) ,
- the front section of the front wheel arch liners [Exterior body front trim assembly: Exploded view](#) ,
- the front bumper [Front bumper assembly: Exploded view](#) ,
- the headlights (see **Front signals - lighting assembly: Exploded view**) .

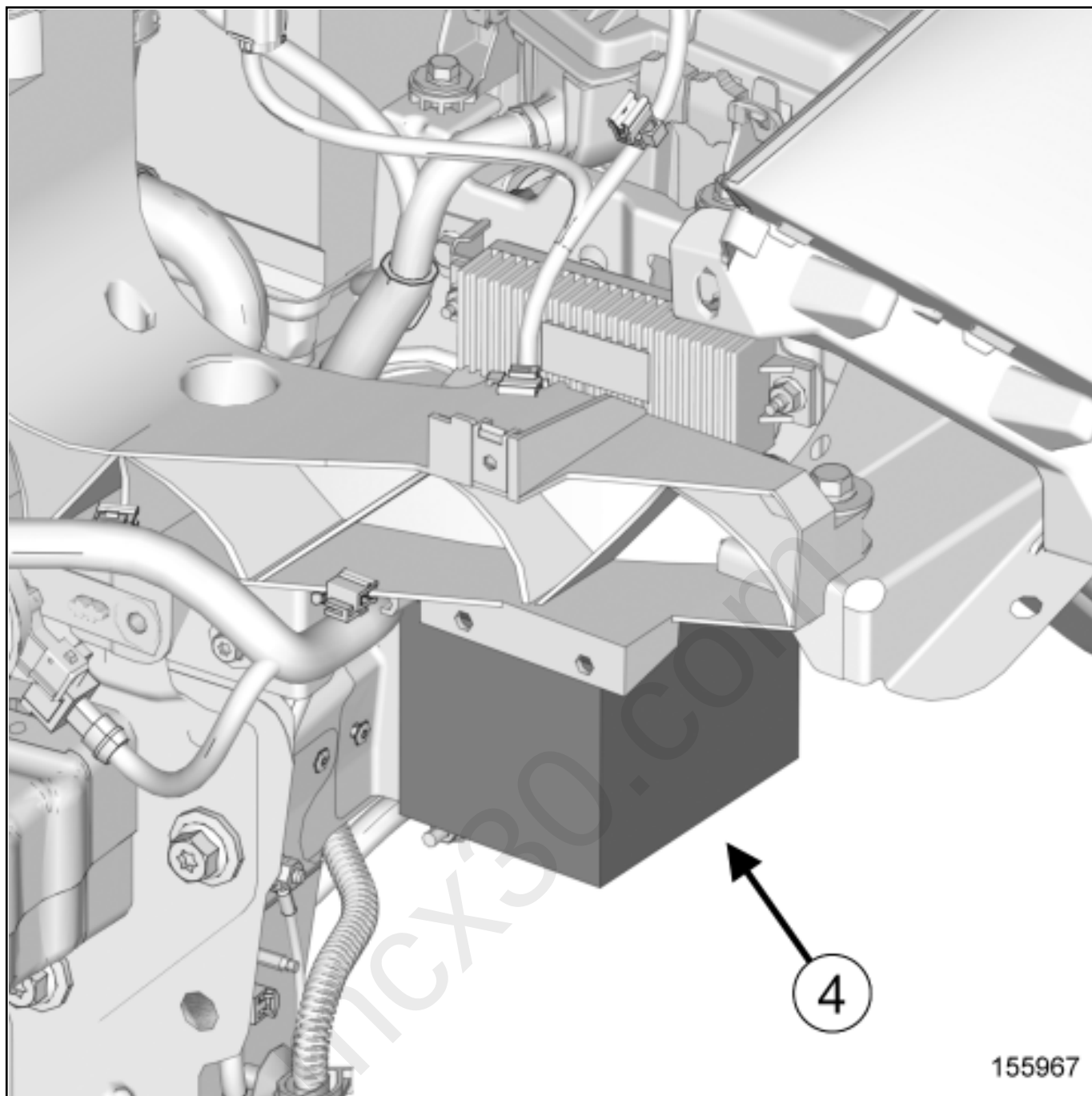


- Remove the electric vehicle charging socket support bolts(1) .
- Move the electric vehicle charging socket.
- Unclip the wiring between charger and electric vehicle charging socket.
- Remove the support bolt of the wiring between charger and electric vehicle charging socket.



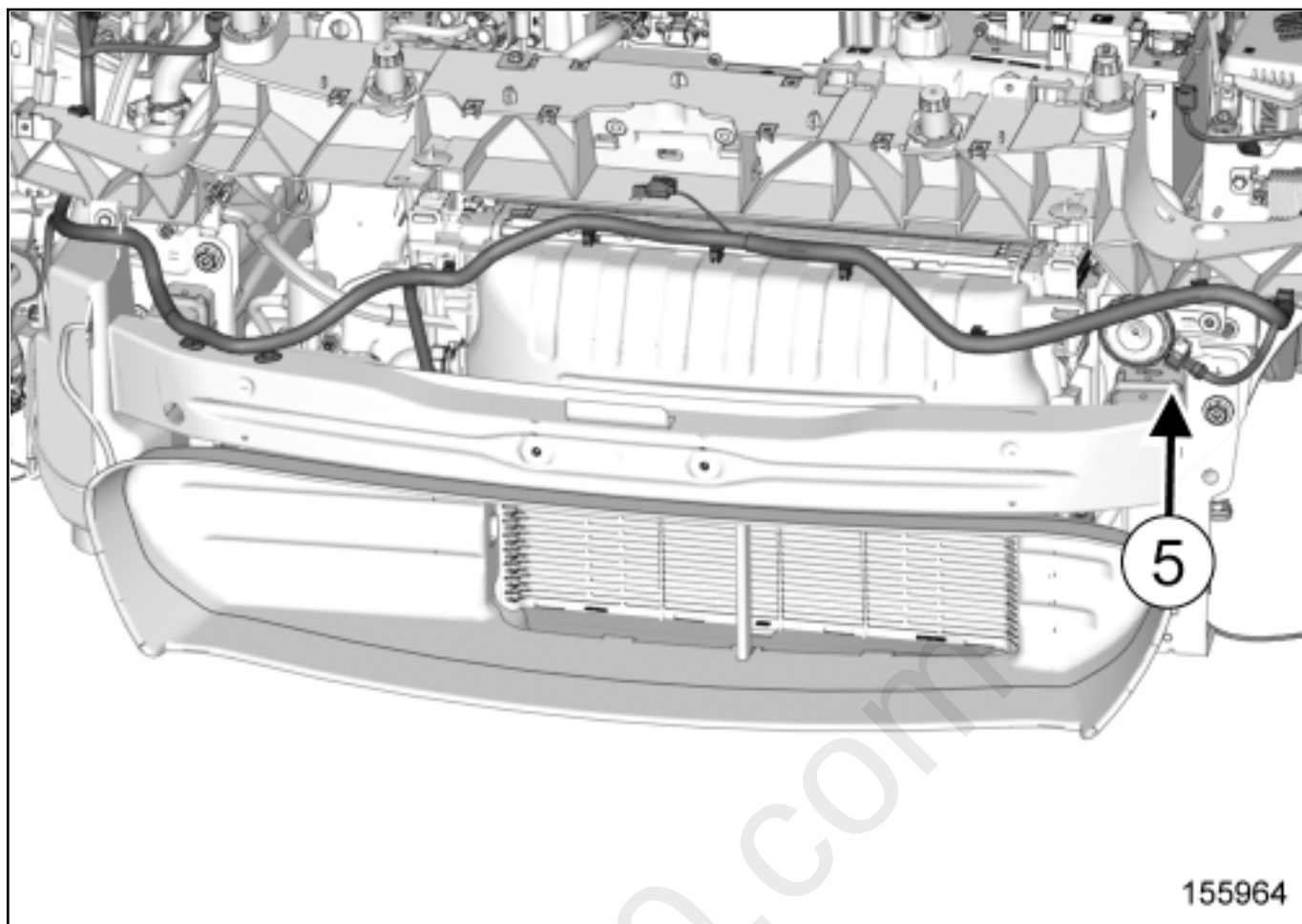
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- Remove the expansion bottle clip(2) .
- Unclip the expansion bottle in the direction of arrow(3) .
- Remove the "intermediate pipe - condenser" connecting pipe support bolt [Passenger compartment cooling assembly: Exploded view](#) .
- Move the "intermediate pipe - condenser" connecting pipe.
- Remove:
 - the front opening element lock [Front opening element mechanism assembly : Exploded view](#) ,
 - the windscreen washer reservoir bolt [Wiping and washing: List and location of components](#) .



■ Disconnect the pedestrian warning connector(4) .

■ Unclip the pedestrian warning.



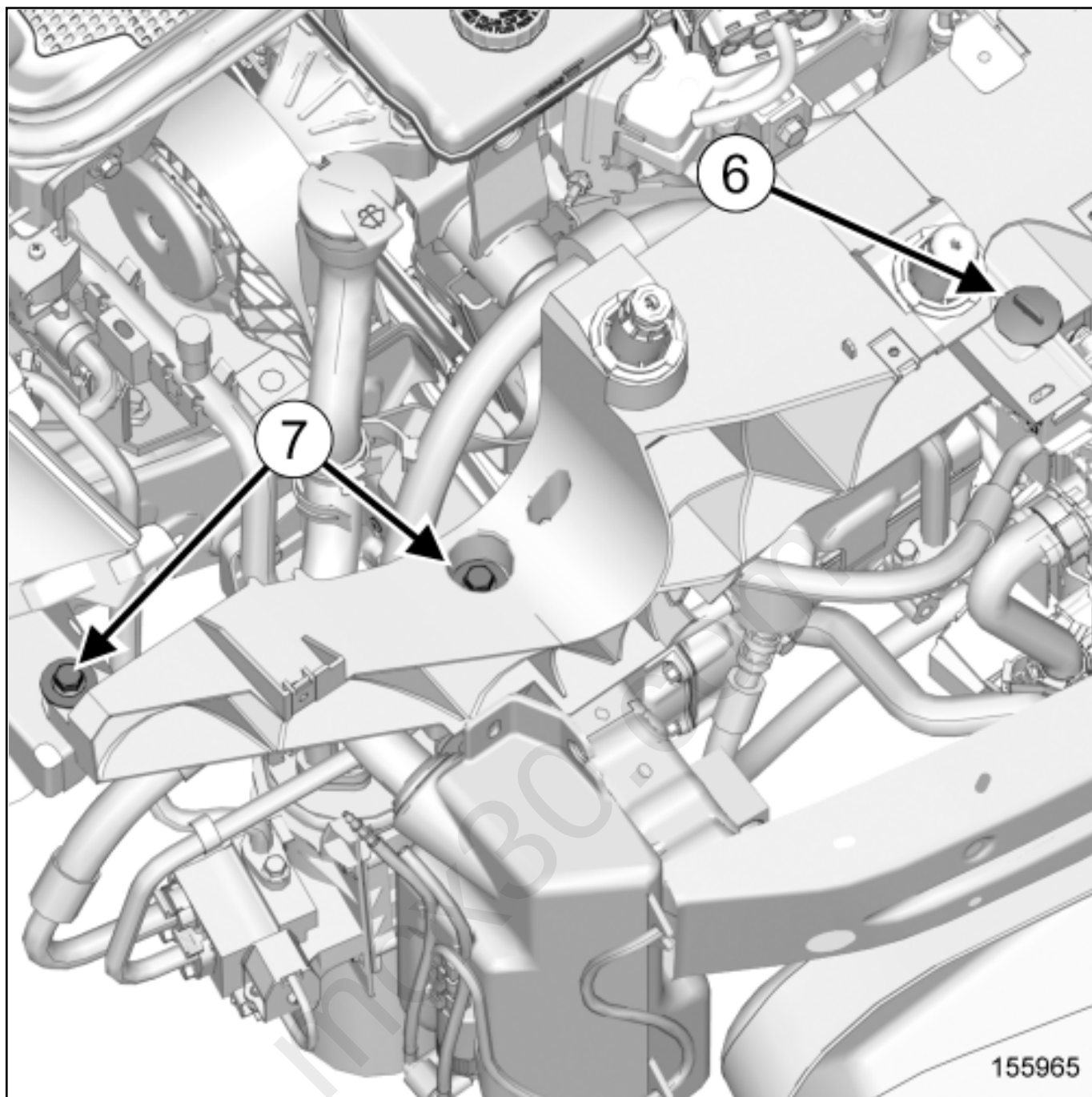
Unclip:

- the wiring from the front upper cross member,

- the windscreen washer pipe from the front upper cross member.

Disconnect the audible warning connector(5) .

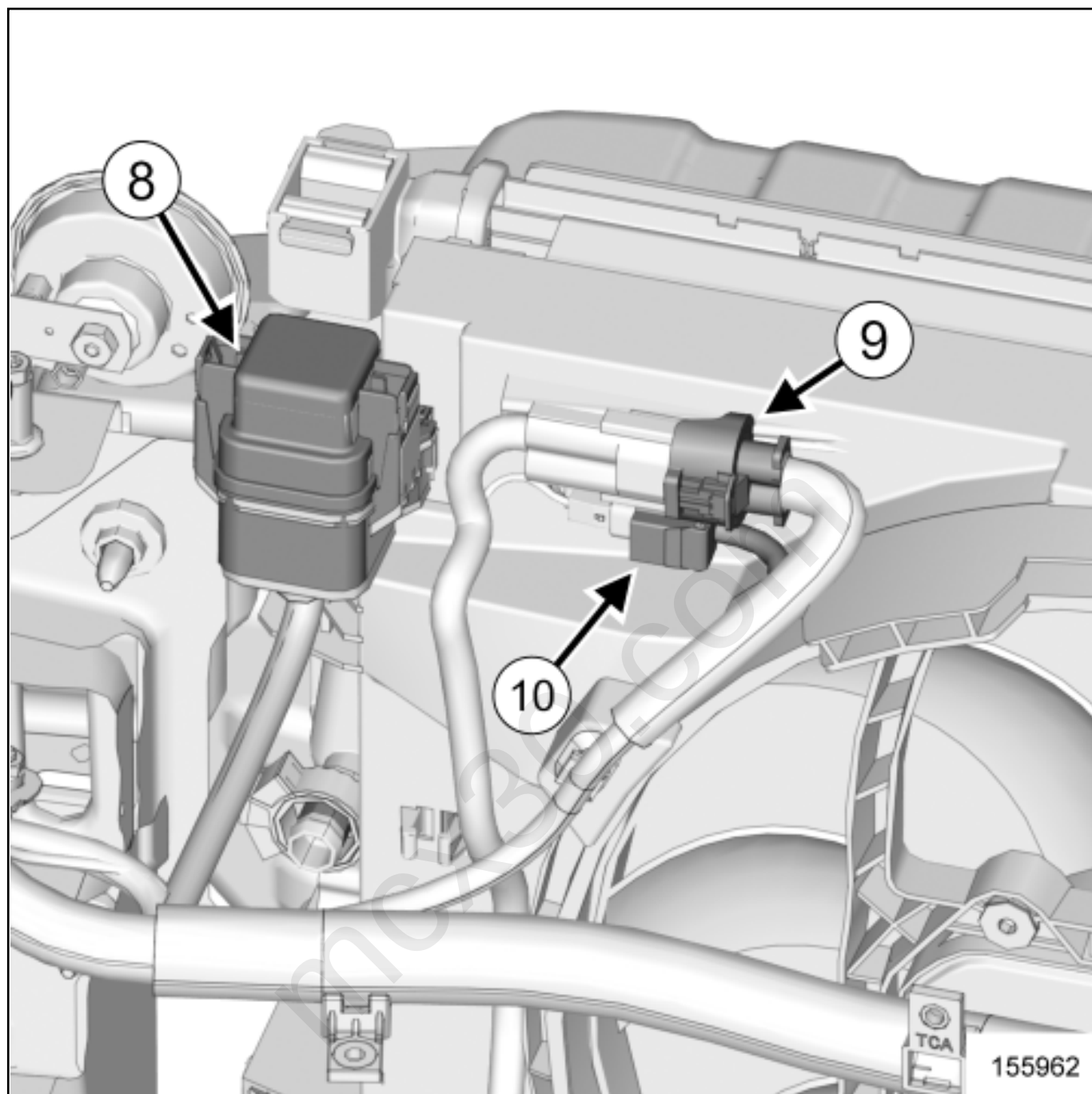
Unclip the degassing hose from the front upper cross member([see 19A, Cooling, Coolant circuit assembly: Exploded view](#)) .



Remove:

- the front upper cross member pins(6) ,
- the front upper cross member bolts(7) ,
- the front upper cross member.

2. REMOVAL OPERATION



Unclip:

- the relay unit(8) ,
- the engine cooling fan assembly connector(9) ,
- the signal connector(10) .

Disconnect:



the engine cooling fan assembly connector,

the signal connector.

Unclip the wiring.

Unclip the wiring from the air conditioning solenoid valve.

Remove the "intermediate pipe - condenser" connecting pipe support bolts [Passenger compartment cooling assembly: Exploded view](#) .

Unclip the engine cooling fan assembly from the front end panel.

Remove the engine cooling fan assembly.

Note:



Pay attention to the hose between the cooling radiator and electric coolant pump and the air conditioning solenoid valve.

REFITTING

1. REFITTING OPERATION

Proceed in the reverse order to removal.

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



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:



"Engine cooling fan assembly" .



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