

ENGINE WIRING: REMOVAL - REFITTING



Note, one or more warnings are present in this procedure



WARNING



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

- [\(see 88A, Wiring harness, Wiring: Precautions for the repair\)](#) ,
- [Vehicle: Precautions for the repair](#) .

CAUTION



To prevent contamination of disconnected connectors and sockets, hermetically seal the connectors and sockets using a plastic bag and a securing clip. For traction battery sockets, use traction battery caps [Vehicle: Parts and consumables for the repair](#) .

CAUTION



To prevent damage to the wiring harness when refitting, observe the original routing.

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](#) .

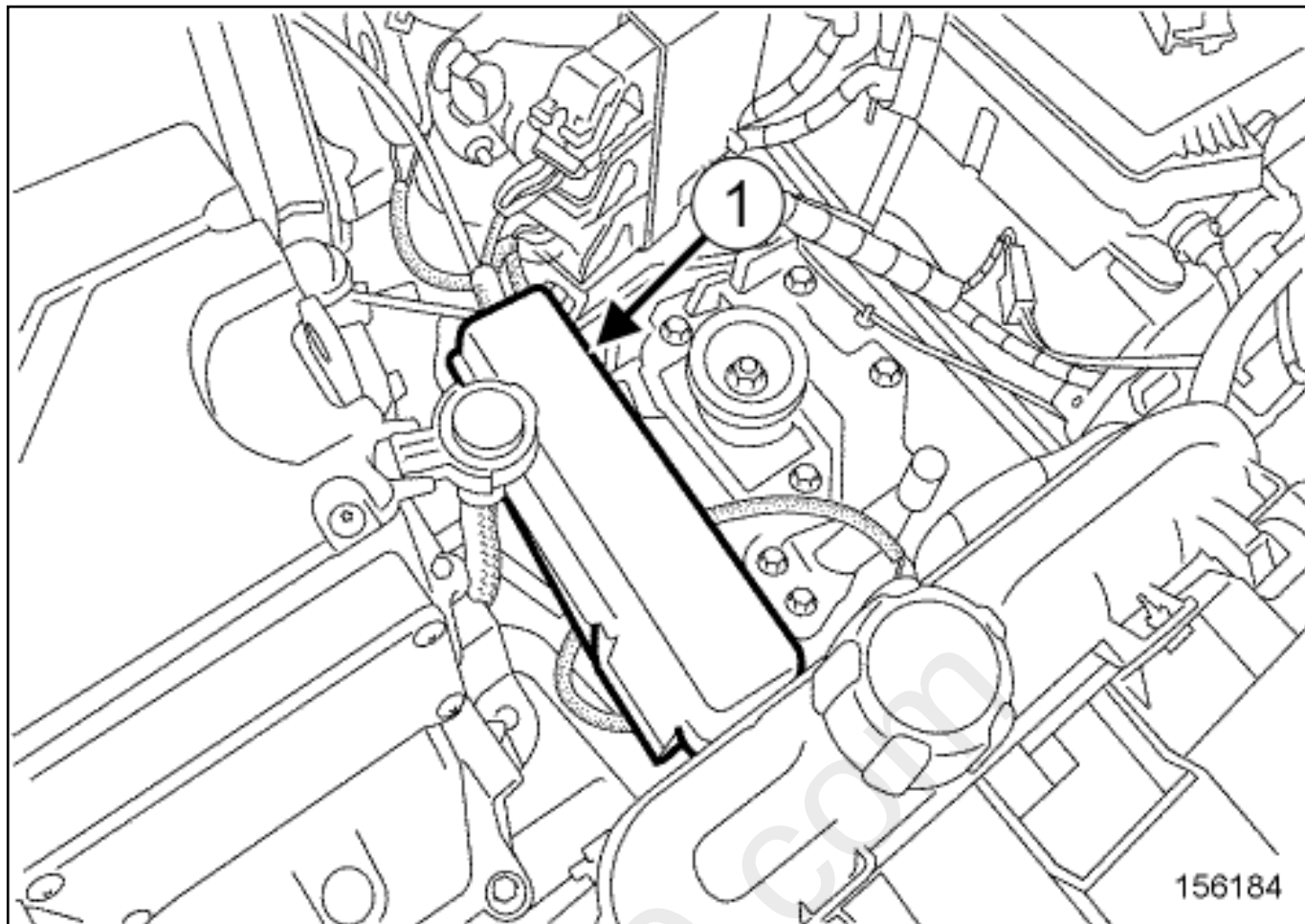
■ Lockout the vehicle [Vehicle: Lockout - Removal of lockout](#) .

■ Drain the cooling system [Cooling system: Draining - Refilling](#) .

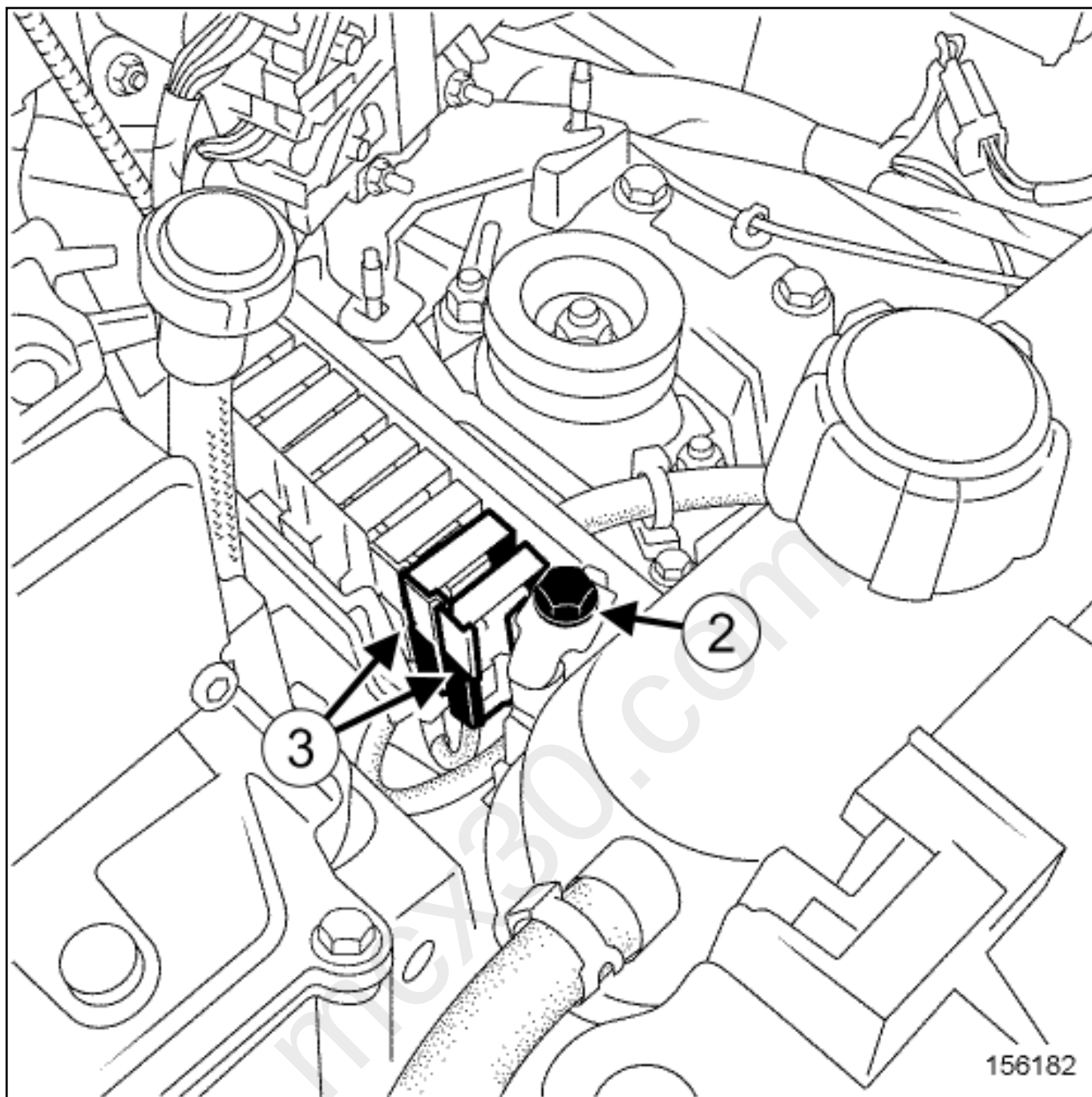
■ Remove:

- the engine undertray,
- the 12V battery [Battery: Removal - Refitting](#) ,
- the battery tray [Battery tray: Removal - Refitting](#) ,
- the electric vehicle charger [Electric vehicle charger assembly: Exploded view](#) ,
- 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](#) .

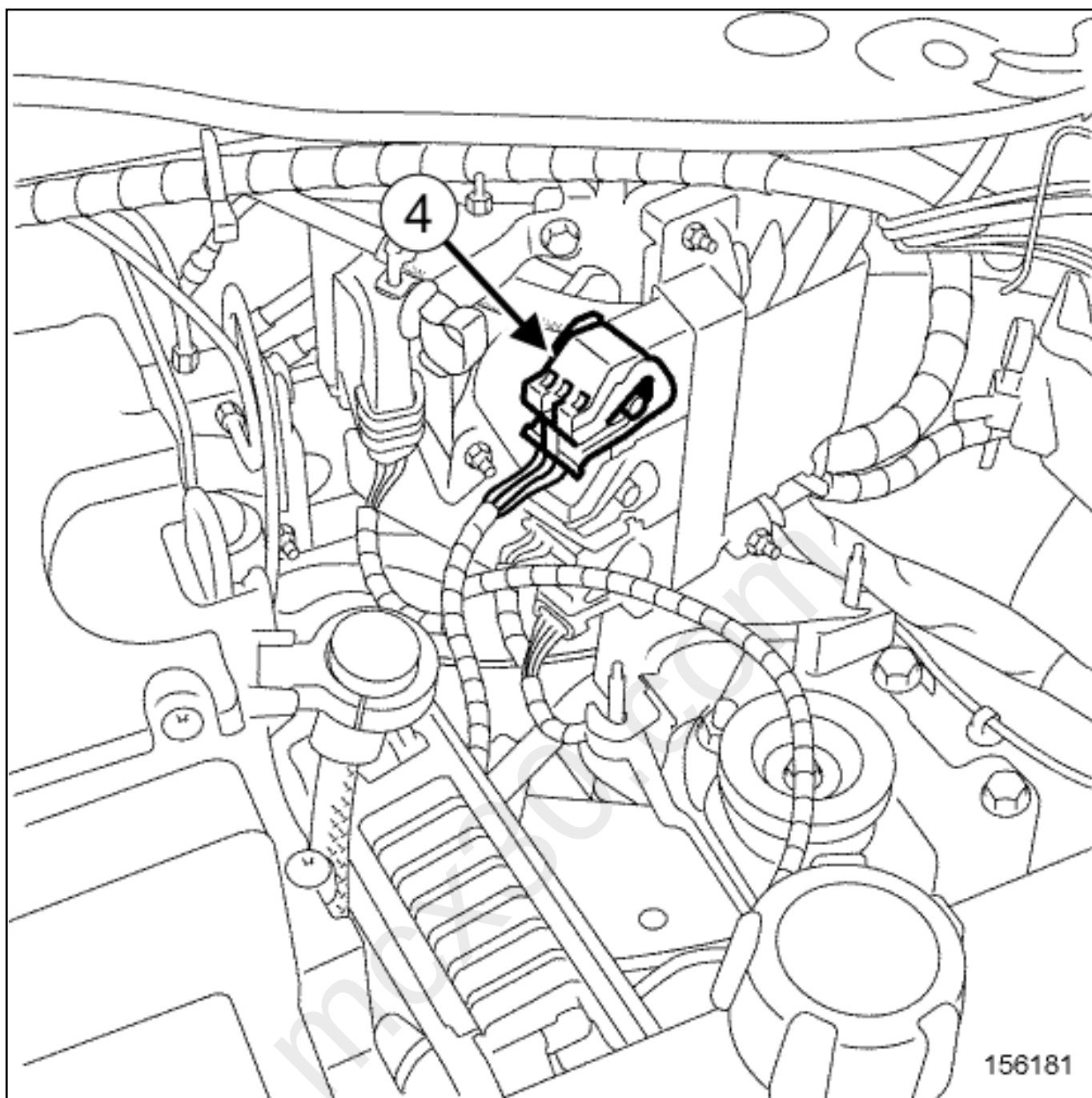
2. REMOVAL OPERATION



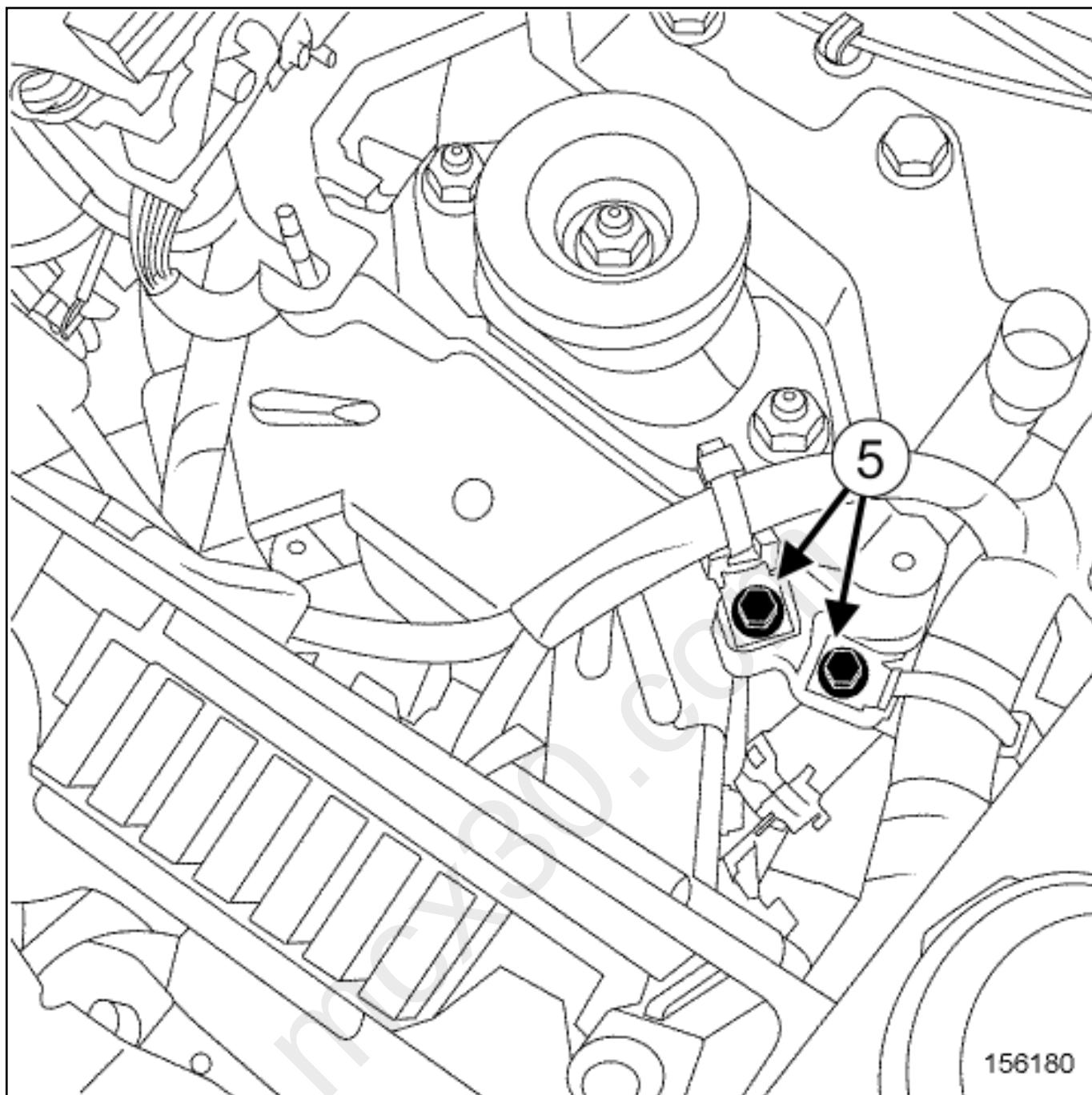
- Unclip the fuse holder unit cover(1) .



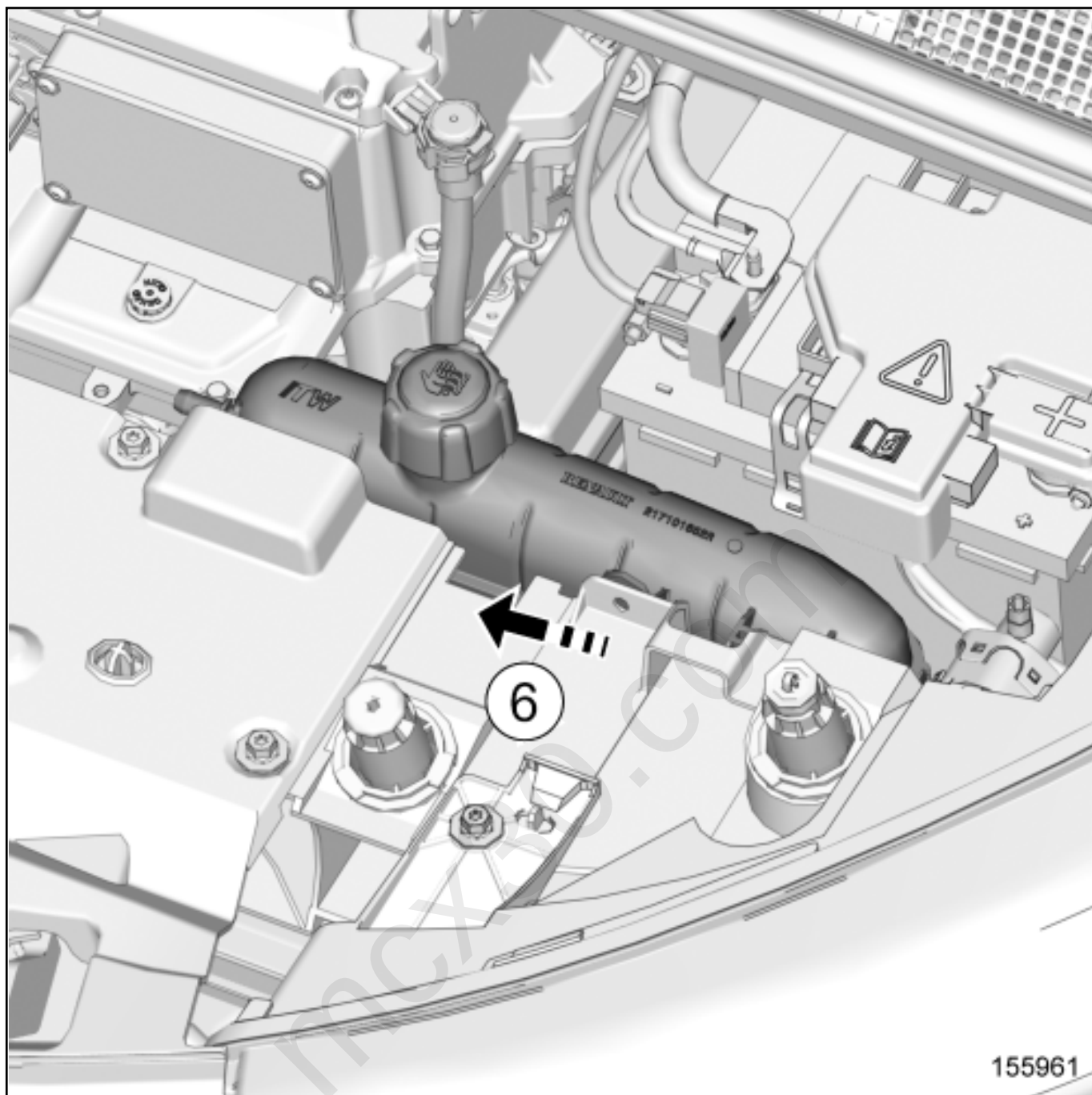
- Remove the bolt(2) from the power wiring.
- Move the wiring.
- Unclip the fuse holders(3) .
- Disconnect the current sensor connector.
- Unclip the wiring from the current sensor.



■ Disconnect the electric vehicle computer connector(4) .

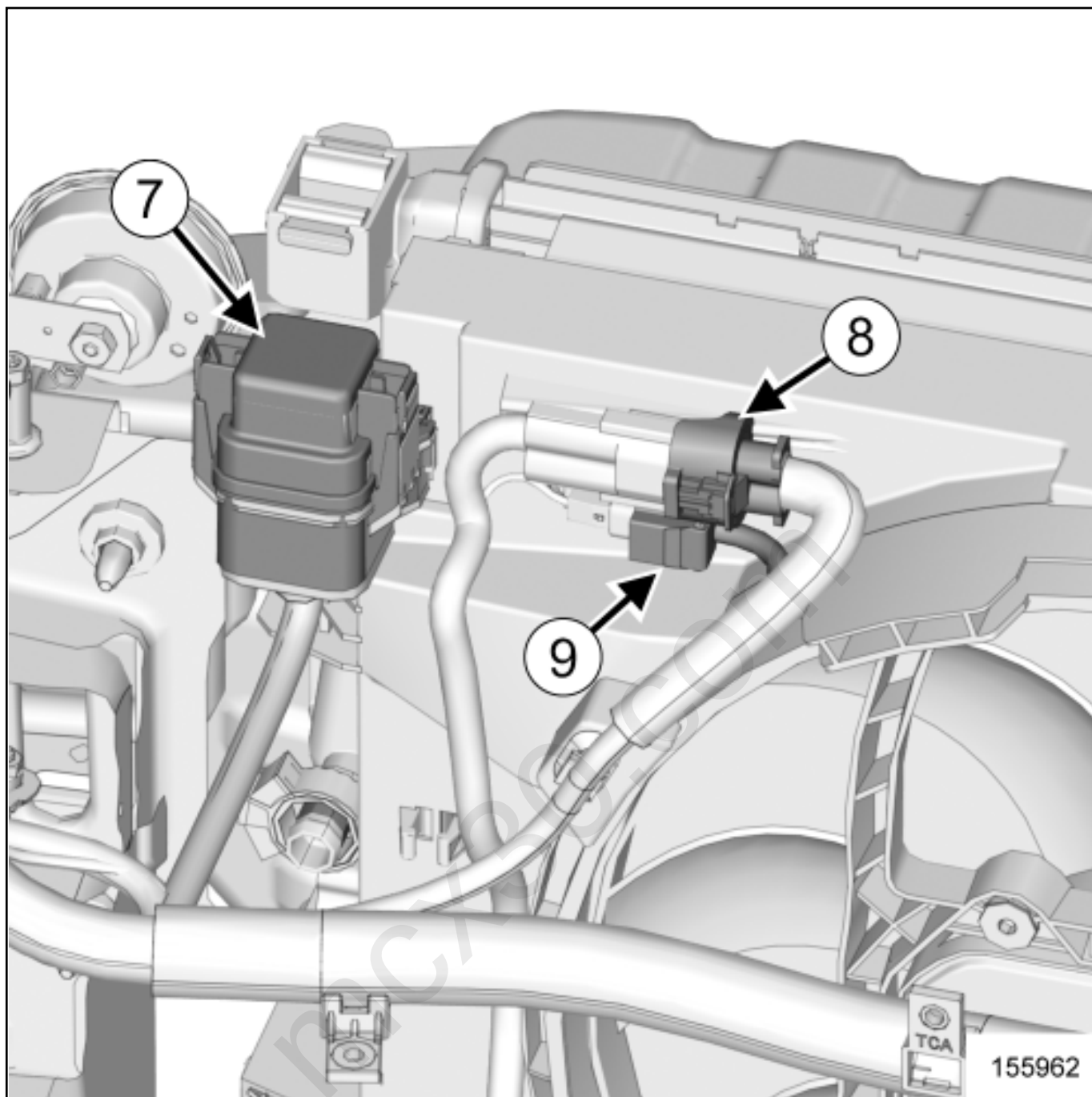


- Remove the wiring support bolts(5) .



■ Remove the expansion bottle clip [Coolant circuit assembly: Exploded view](#) .

■ Unclip the expansion bottle in the direction of the arrow(6) .



■ Unclip the relay unit(7) .

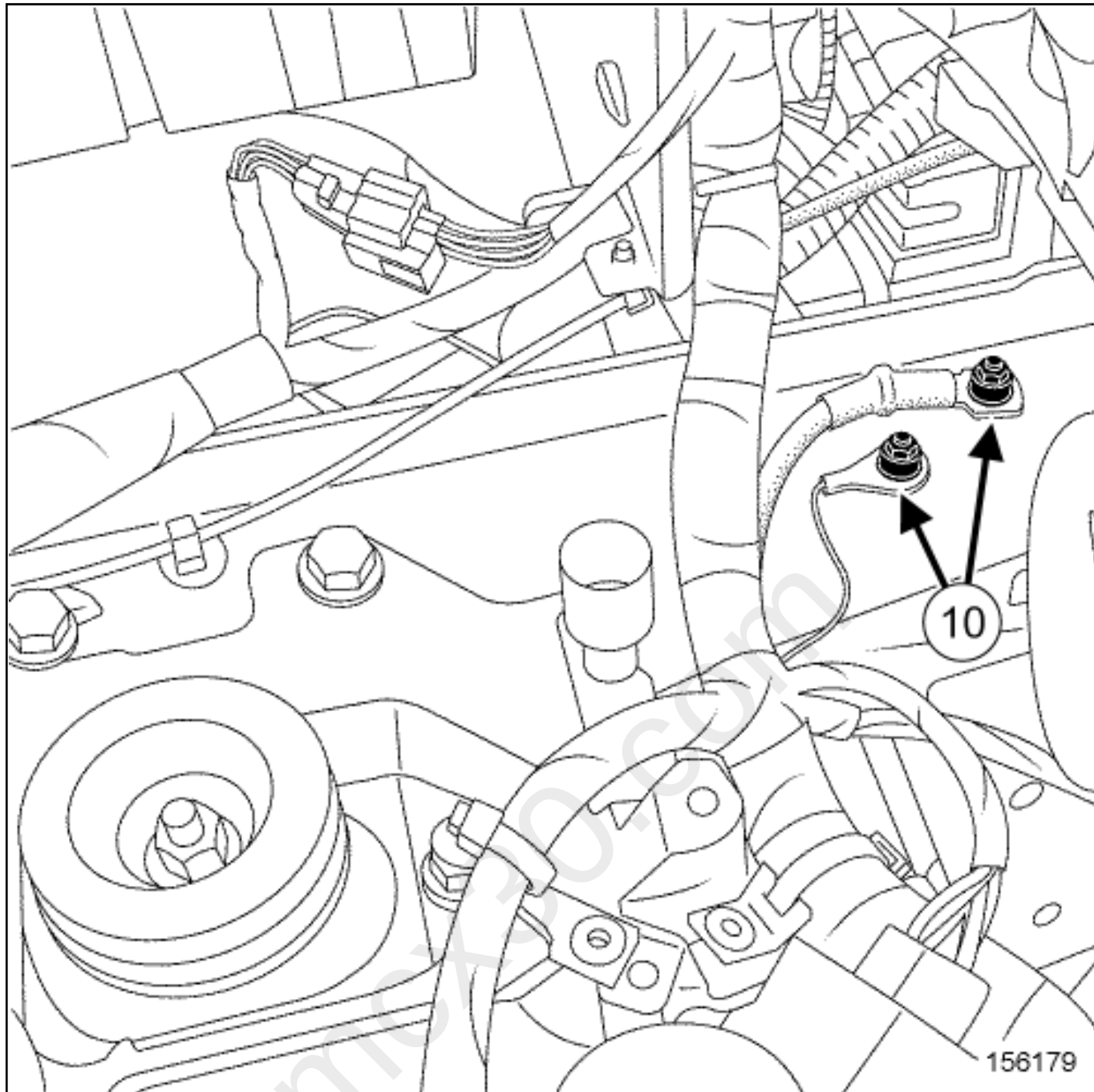
■ Unclip:

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

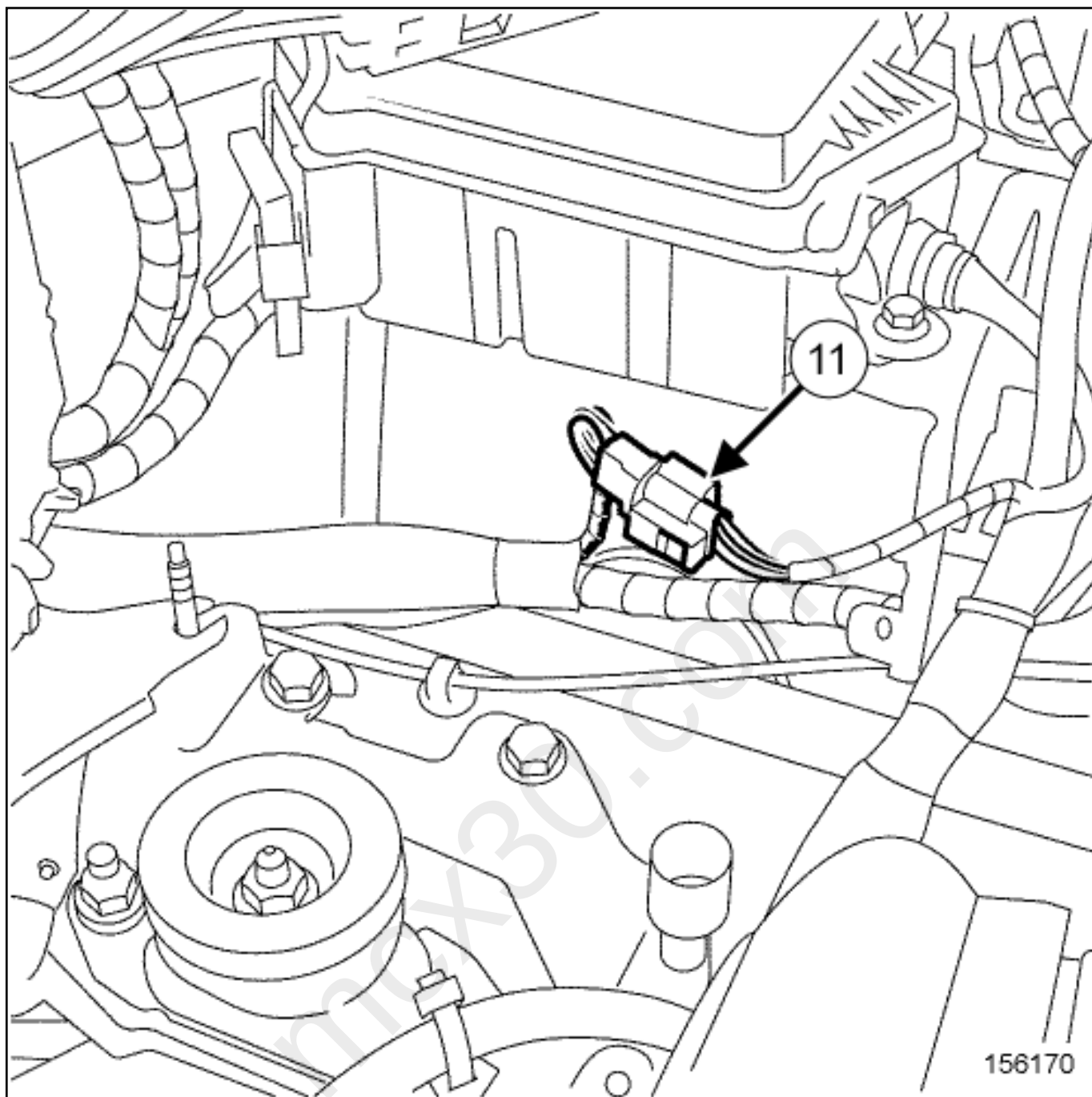
■ Disconnect:

- the engine cooling fan assembly connector,
- the engine cooling fan assembly signal connector.

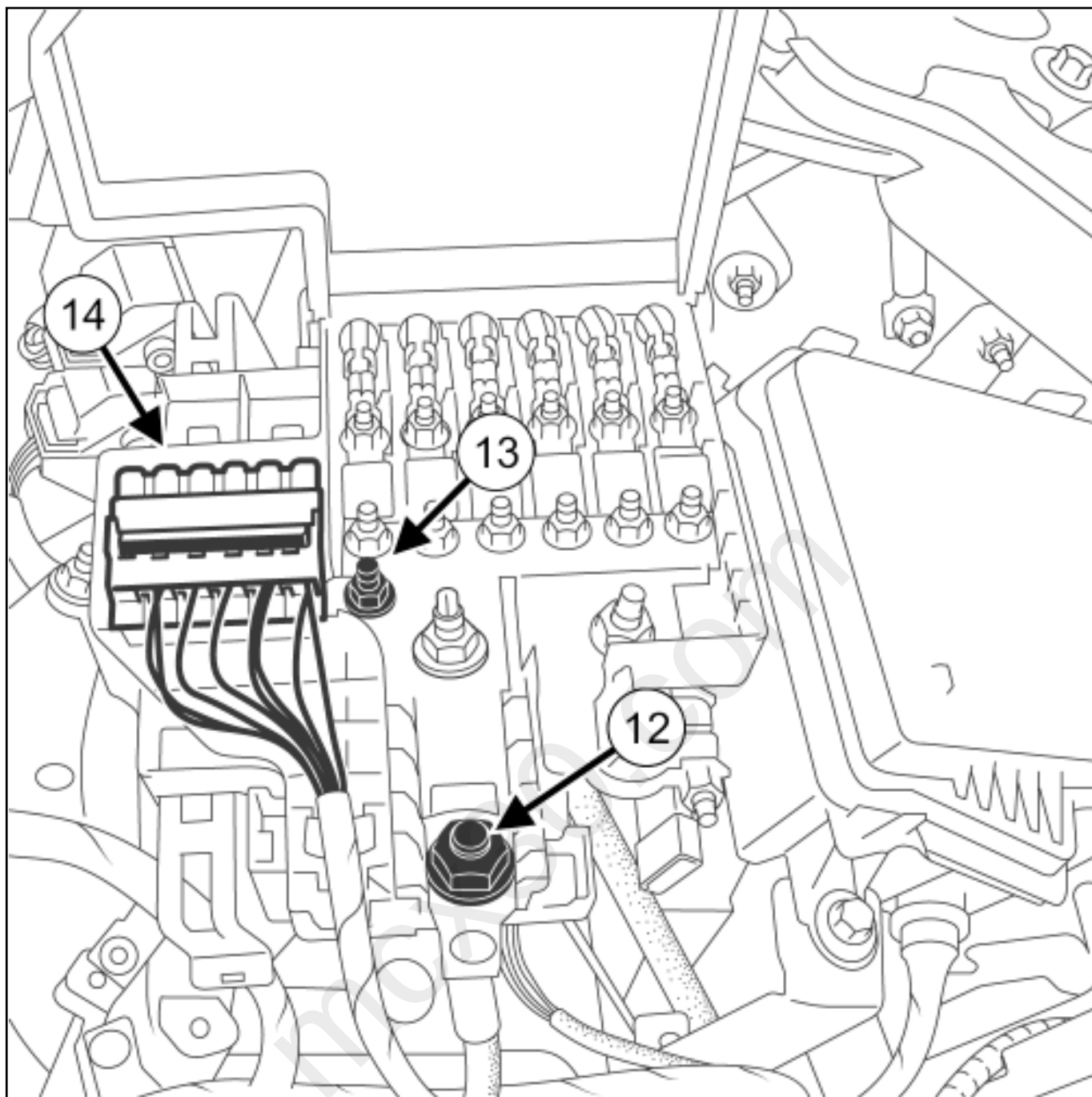
■ Unclip the wiring.



- Remove the earth nuts(10) from front left-hand side member.



Disconnect the connector(11) .



Unclip the cover from the terminal "+" from the 12V battery.

Remove:

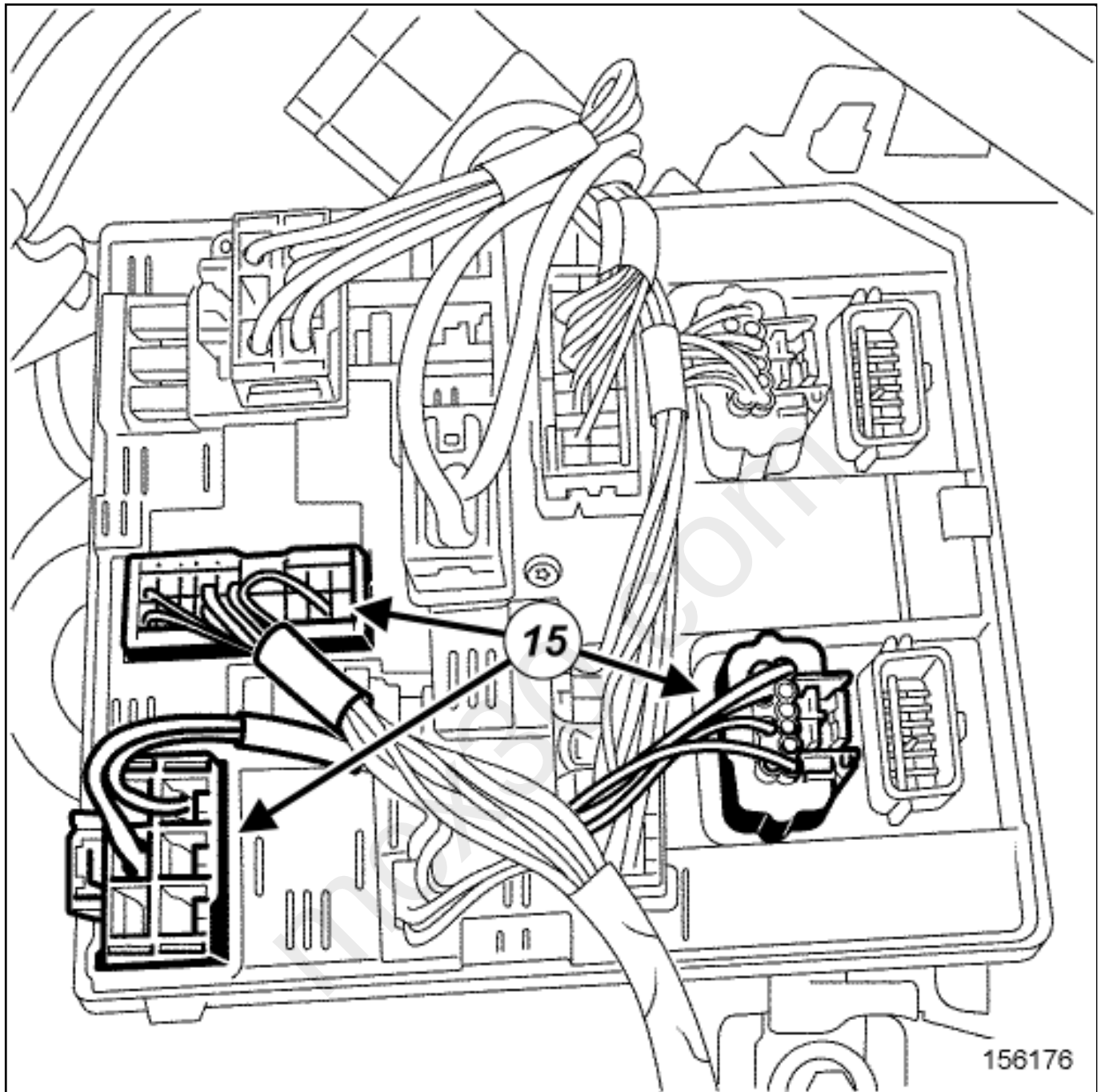


the nut(12) from the wiring,



the support nut(13) from the connector.

Unclip the connector from the terminal "+"(14).



Unclip:



the cover of the protection and switching unit,

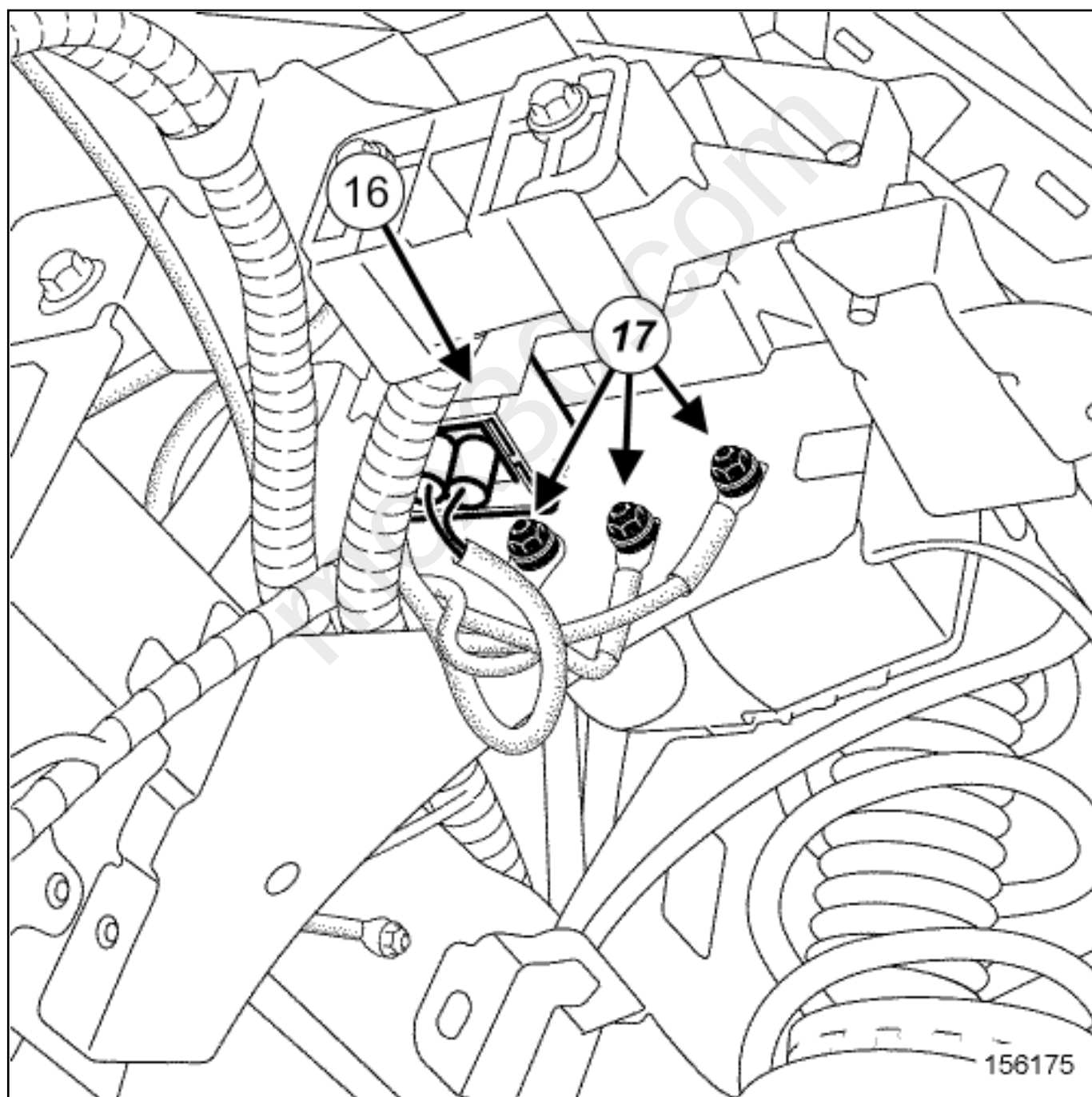
the protection and switching unit.

Disconnect the connectors(15) from the protection and switching unit.

Move the wiring.

Disconnect the left-hand daytime running light connector.

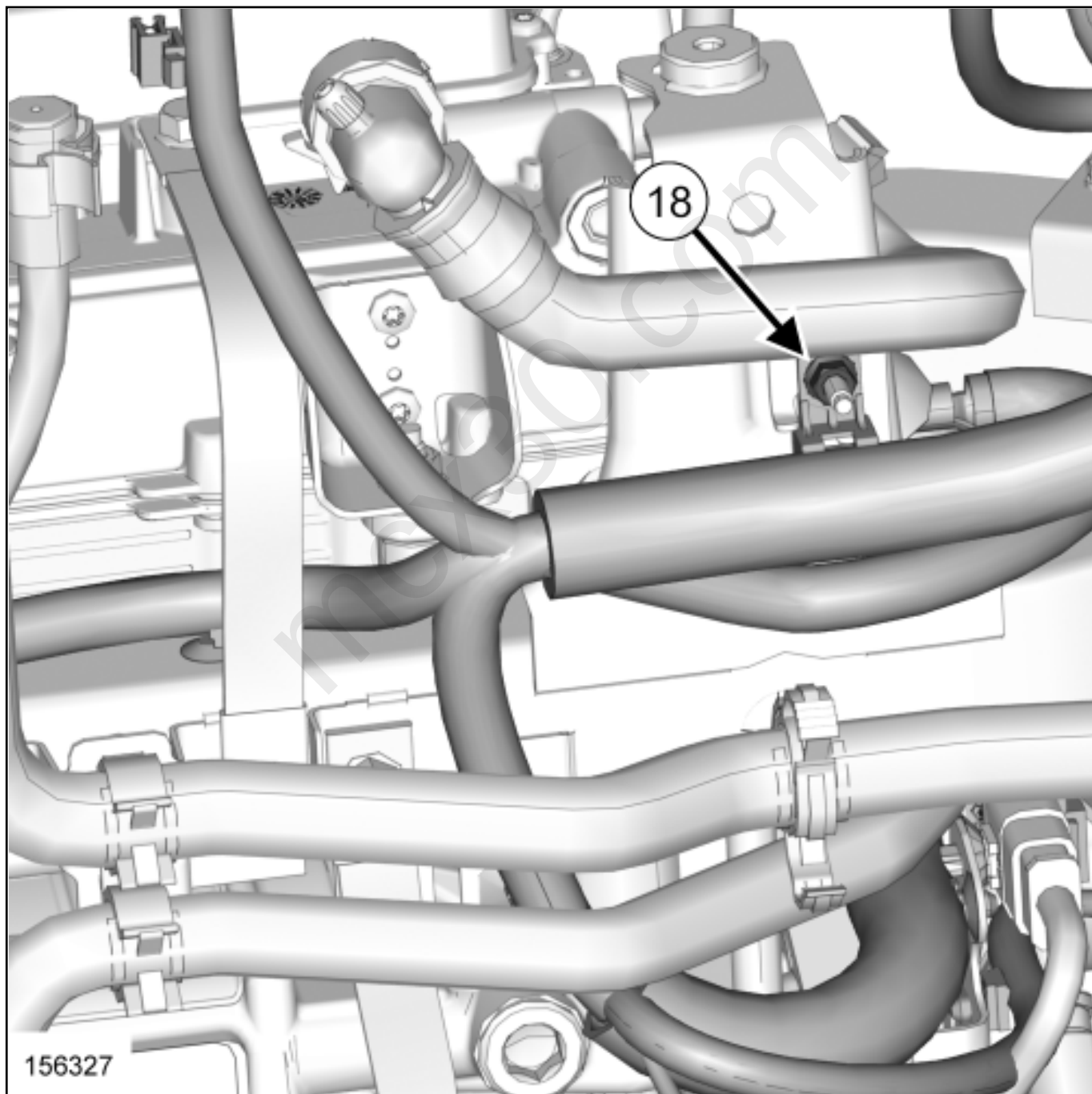
Unclip the pedestrian warning.



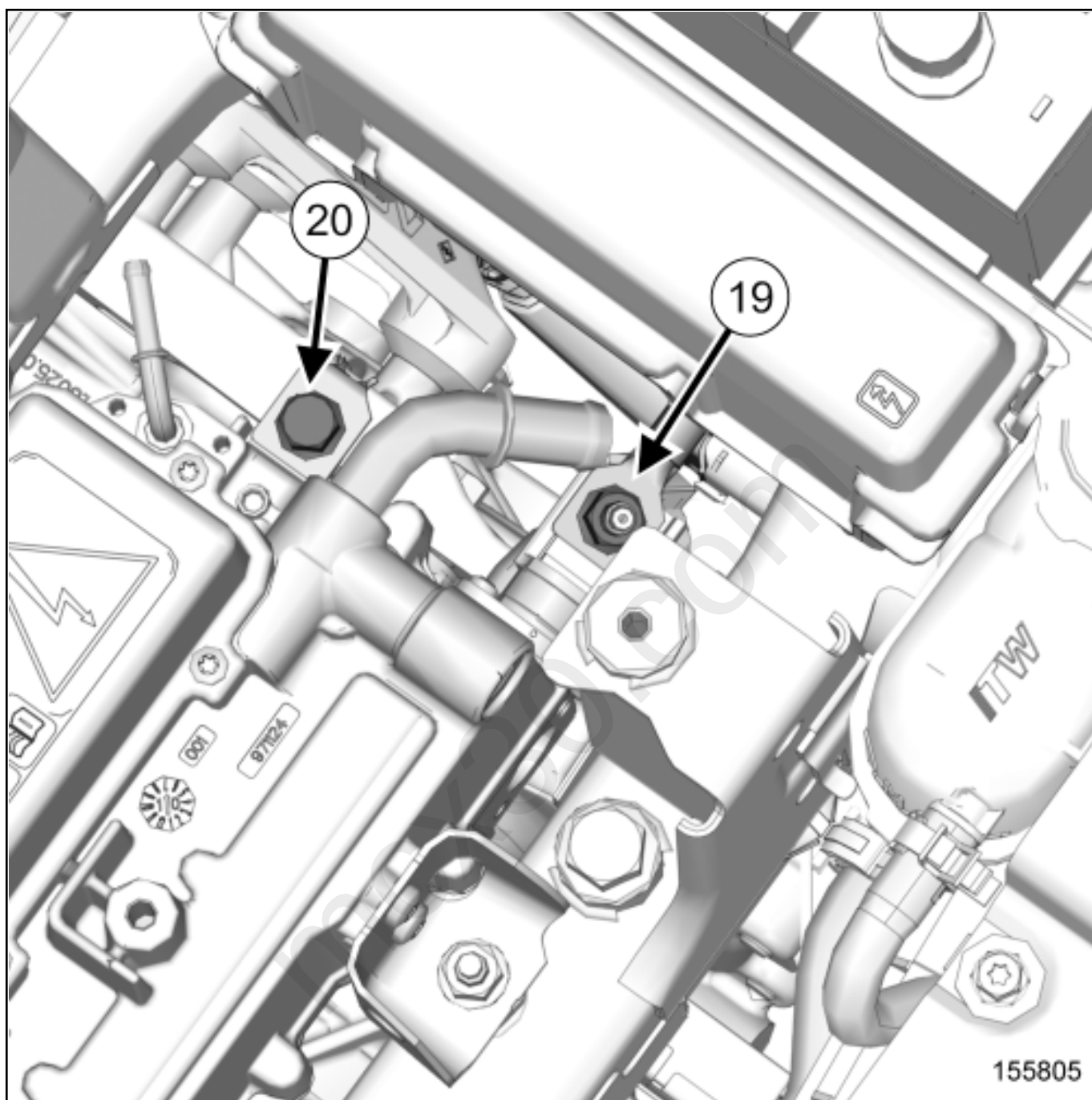
Disconnect the battery charging management computer connector(16) .

Remove the earth nuts(17) .

Move the wiring.



Remove the support wiring nut(18) from the engine mounting subframe.



Remove:



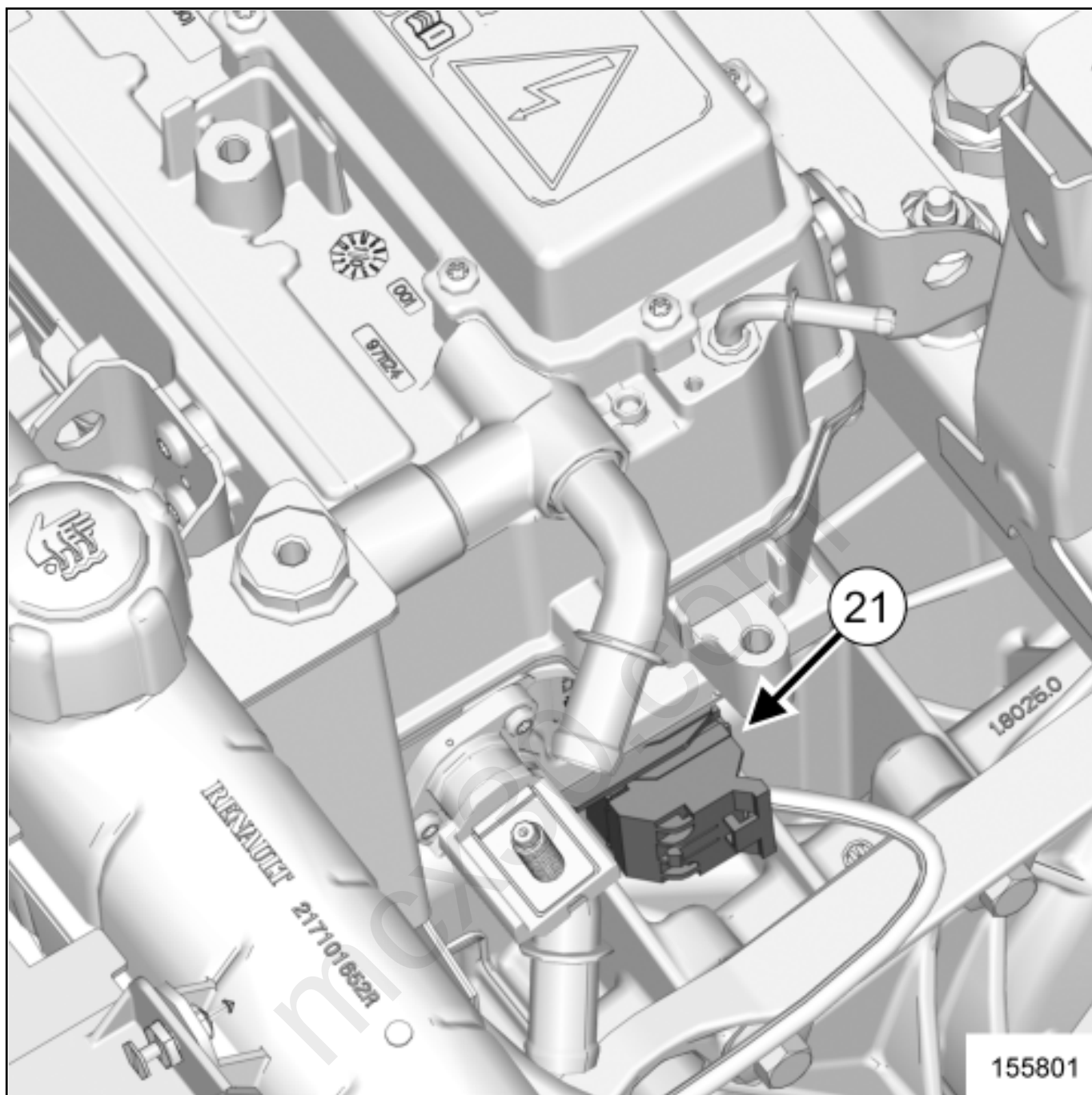
the protective cover from the positive 12V battery cable,



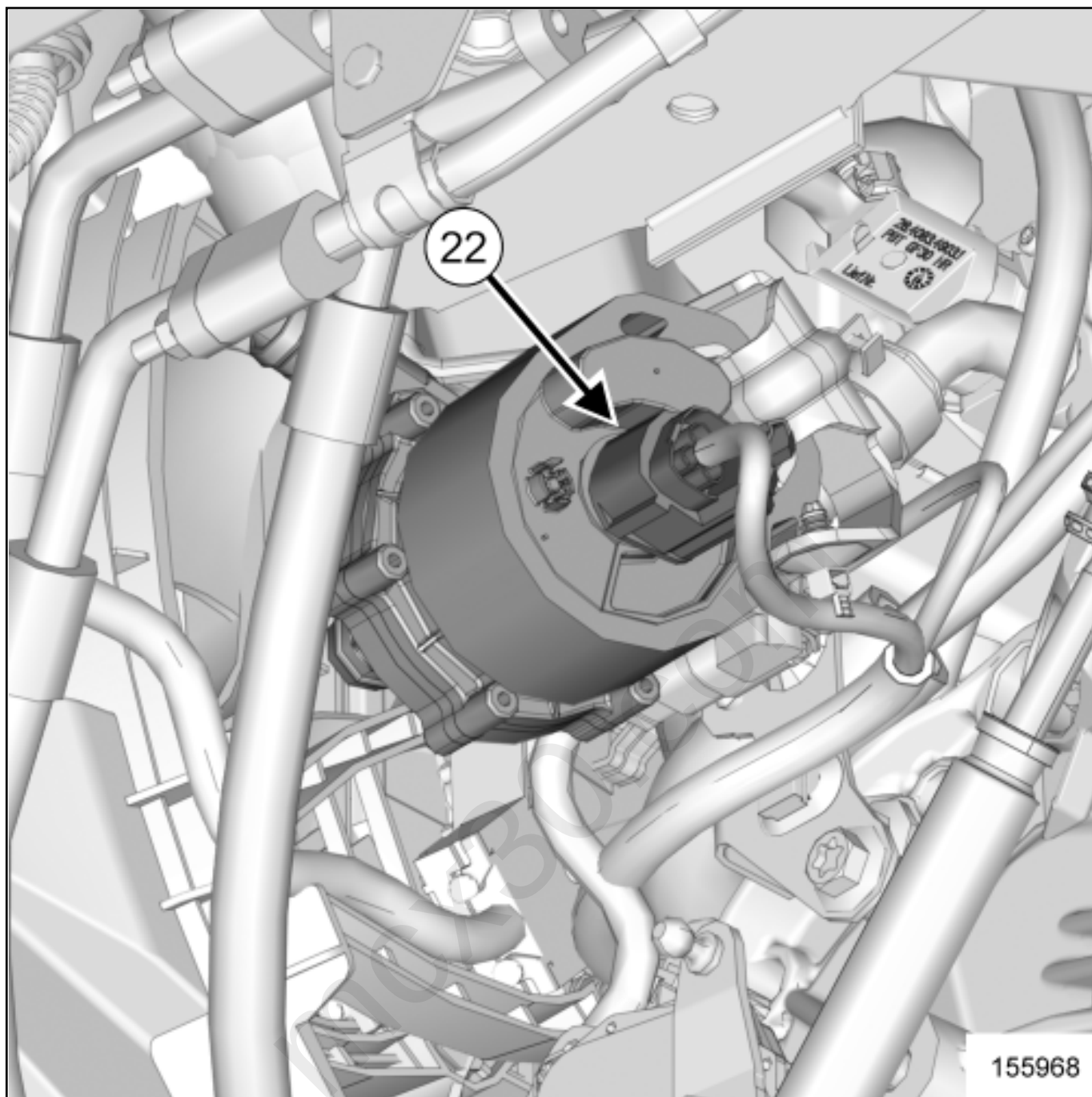
the positive 12V battery cable nut(19) ,

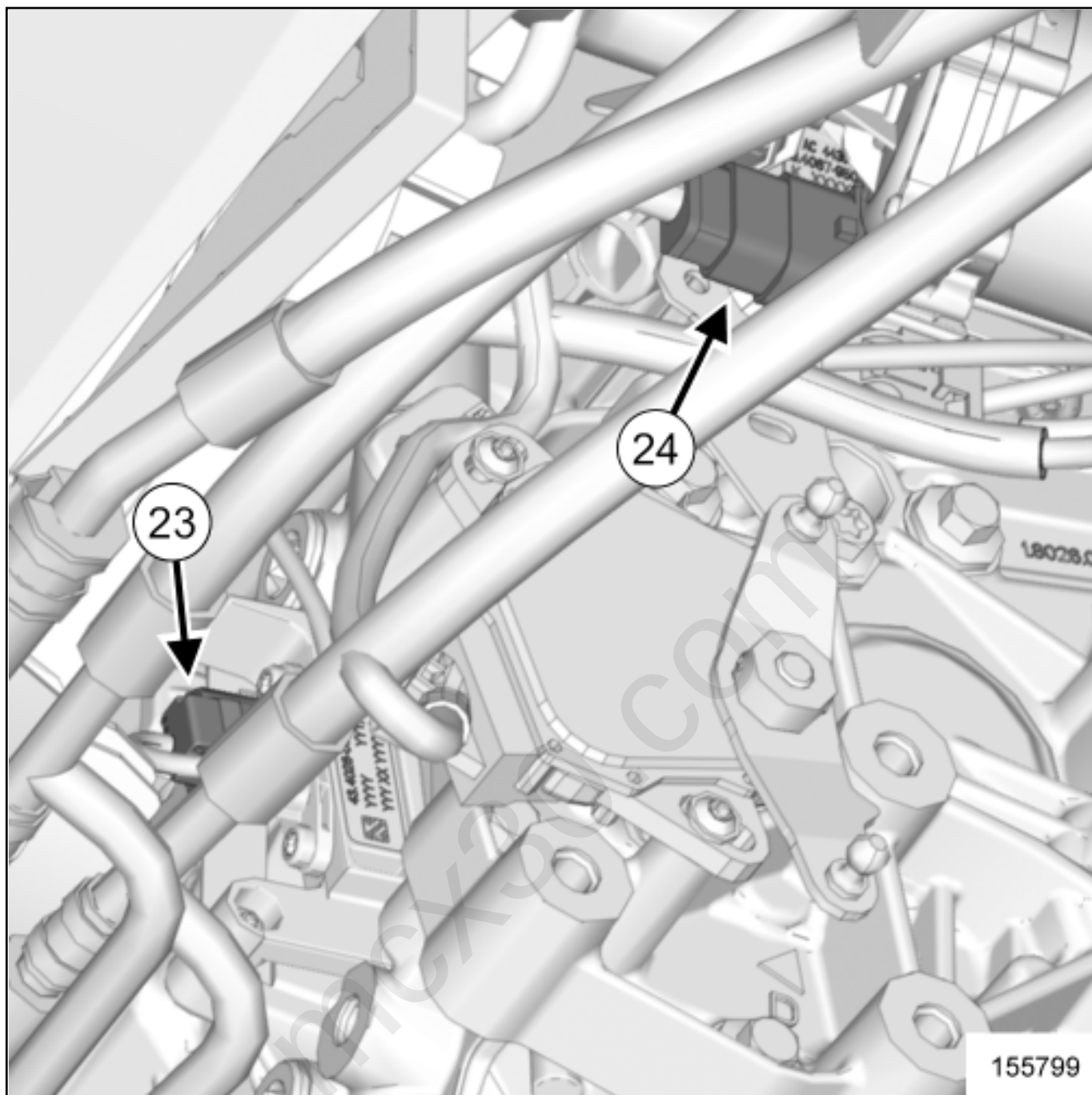


the negative 12V battery cable bolt(20) .



Disconnect the accessories signal connector(21) .

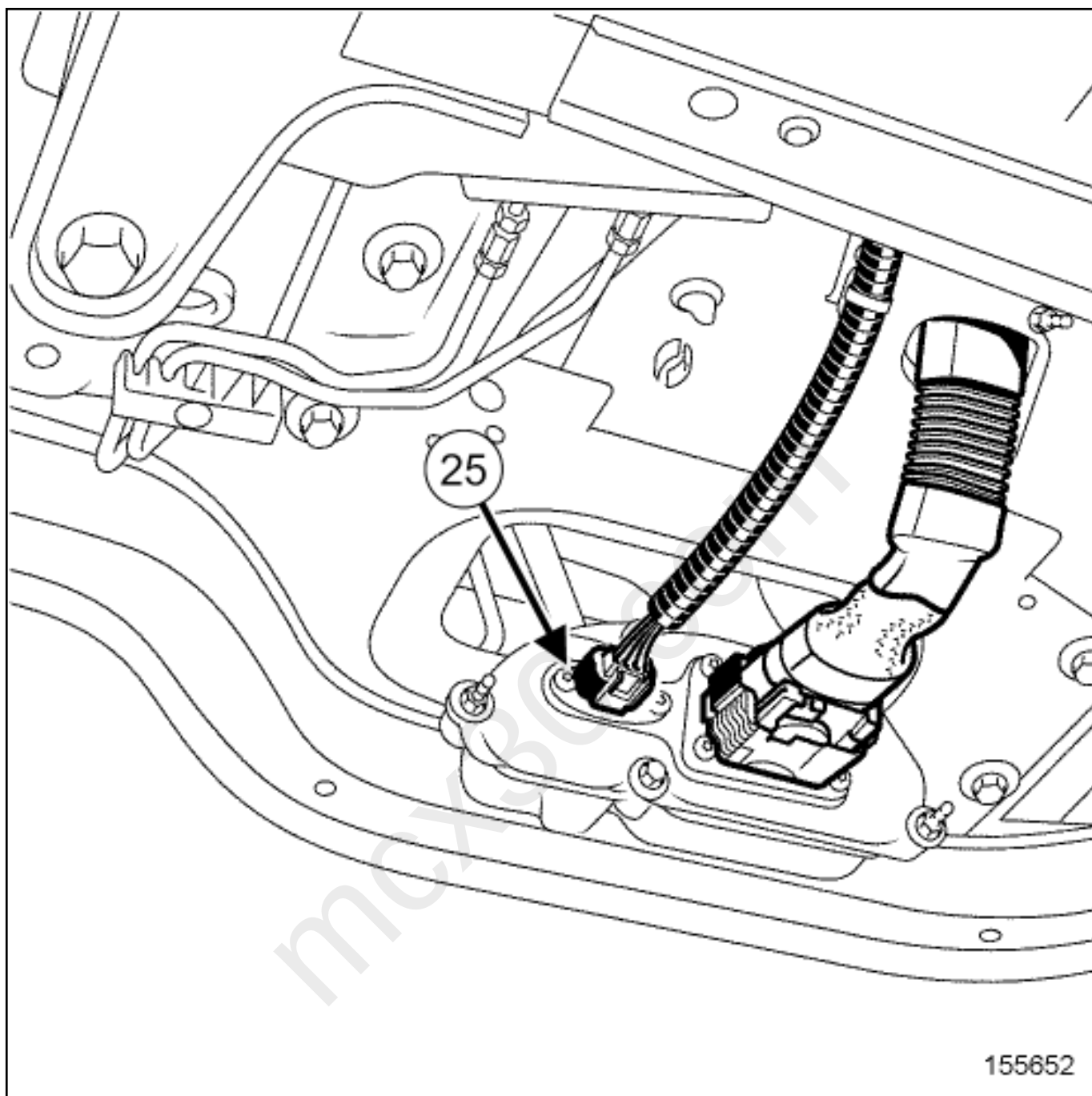




Disconnect:

-
- the electric coolant pump connector(22) ,
-
- the multifunction switch connector(24) ,
-
- the rotor position sensor connector(23) .

Unclip the wiring.



Disconnect the traction battery signal connector(25) .

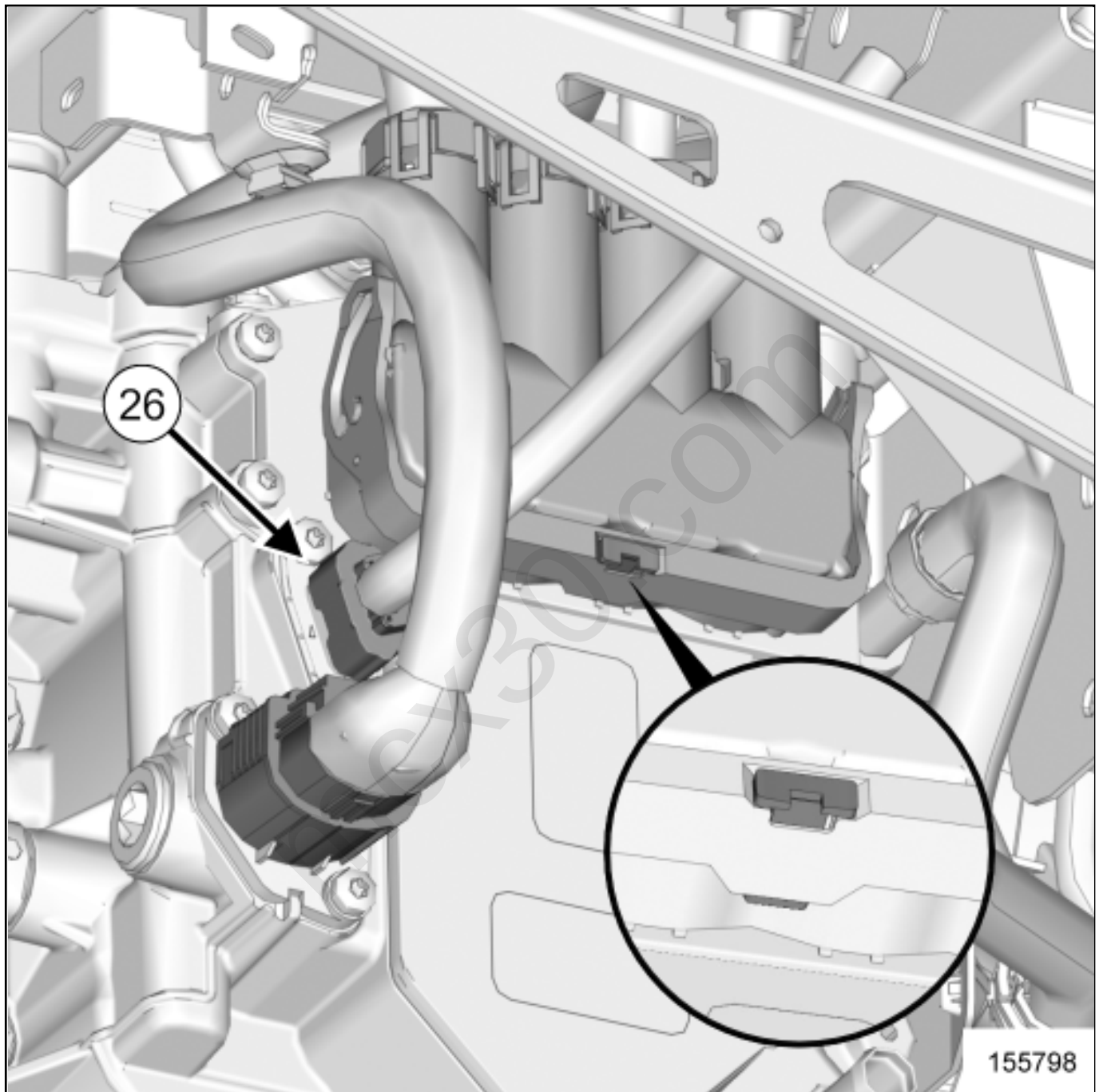
Unclip the wiring.

Remove:



■ the support wiring nut from engine mounting subframe,

the support wiring nut from front axle subframe.

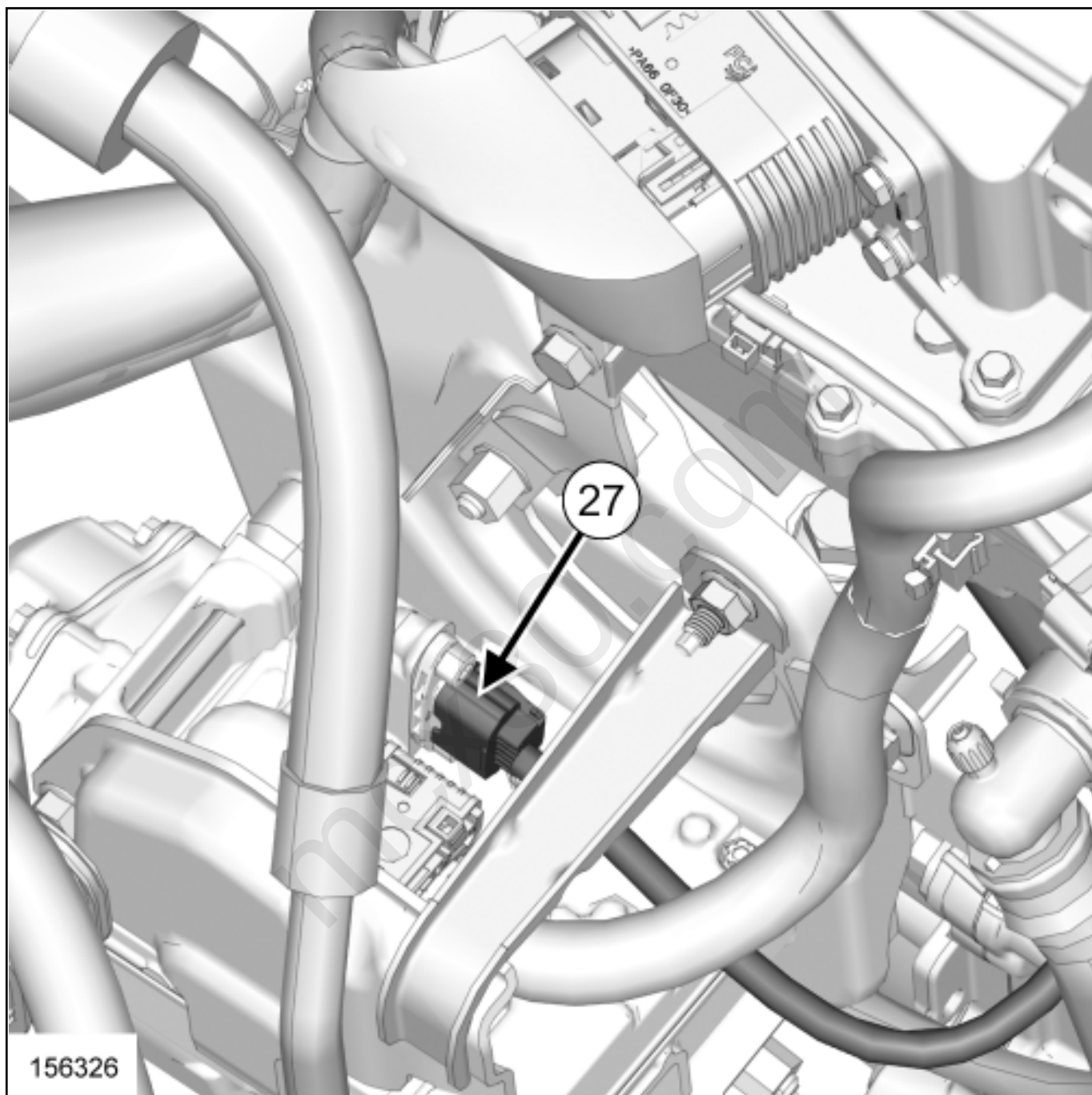


Disconnect the temperature sensor connector(26).

Unclip:

the temperature sensor wiring,

the wiring from the engine mounting subframe.



Disconnect the air conditioning compressor signal connector(27) .



CAUTION

To prevent any damage during the removal operation, check that the wiring is free from its mountings (retaining clip, plastic clip, adhesive tape, connector, etc.).

Remove the engine wiring.

REFITTING

1. REFITTING PREPARATION OPERATION

If the engine wiring is damaged, it must be replaced.

2. REFITTING OPERATION

Proceed in the reverse order to removal.

Torque tighten the earth wiring nuts 8 N.m.

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

Fill and bleed the cooling system [Cooling system: Draining - Refilling](#) .



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