

TRACTION BATTERY LOW VOLTAGE CONNECTOR : REMOVAL - REFITTING



Note, one or more warnings are present in this procedure



Special tooling required

Set of trim removal levers.

Car. 1363

- ▣ Locations and specifications (tightening torques, parts always to be replaced, etc.) ([see 19E, Traction battery, Traction battery module stack assembly : Exploded view](#)) ([see 19E, Traction battery, Traction battery housing assembly : Exploded view](#)) .

WARNING



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

- [\(see 19E, Traction battery, Traction battery : Precautions for the repair\)](#) ,
- [Vehicle: Precautions for the repair](#) .

WARNING

DANGER: HIGH VOLTAGE VEHICLE.



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

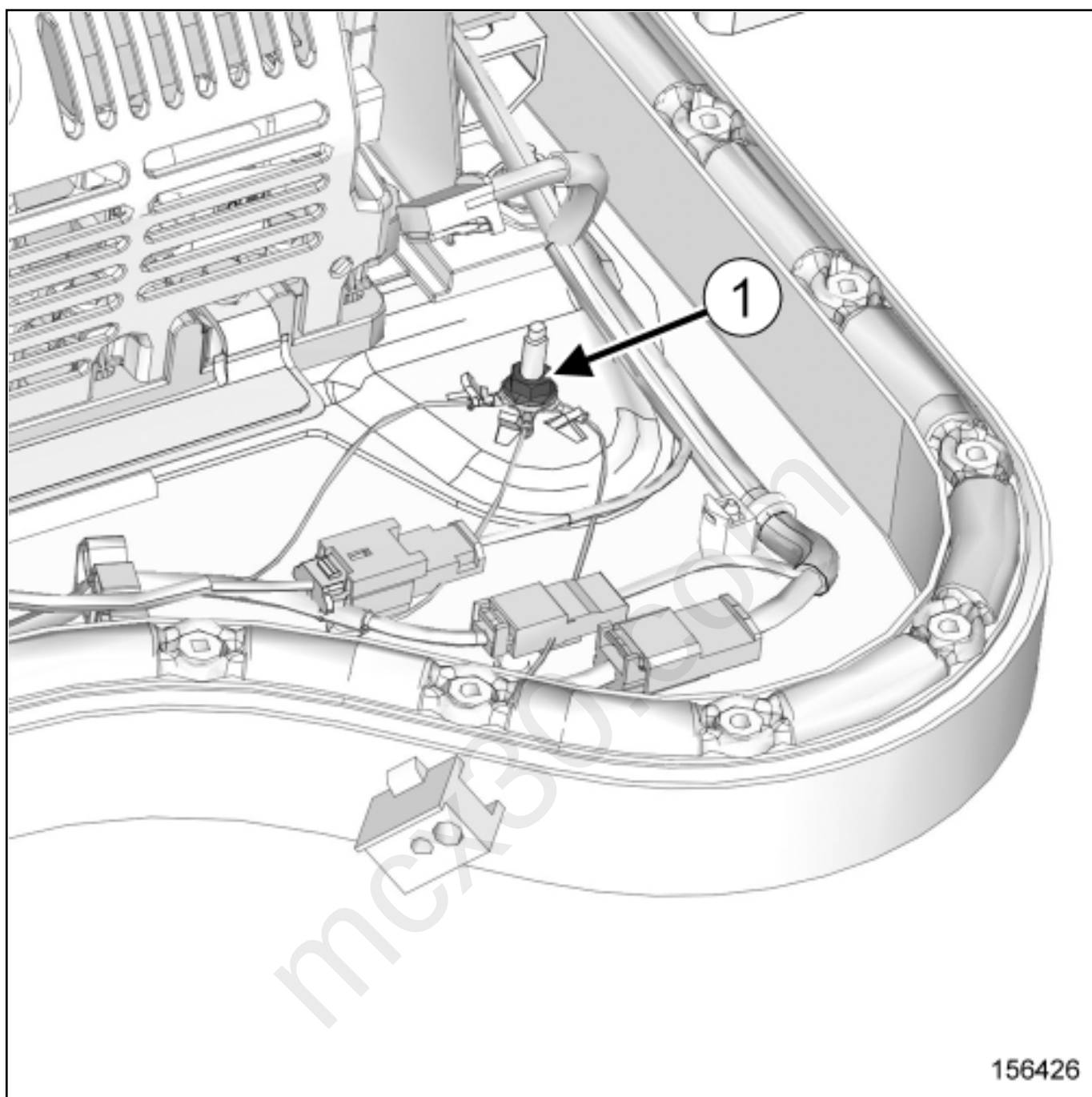
Before carrying out any work on the vehicle, it is essential that you follow the instructions regarding vehicle lockout. This work must be carried out by an employee who is qualified and authorised to work on a high-voltage onboard network.

REMOVAL

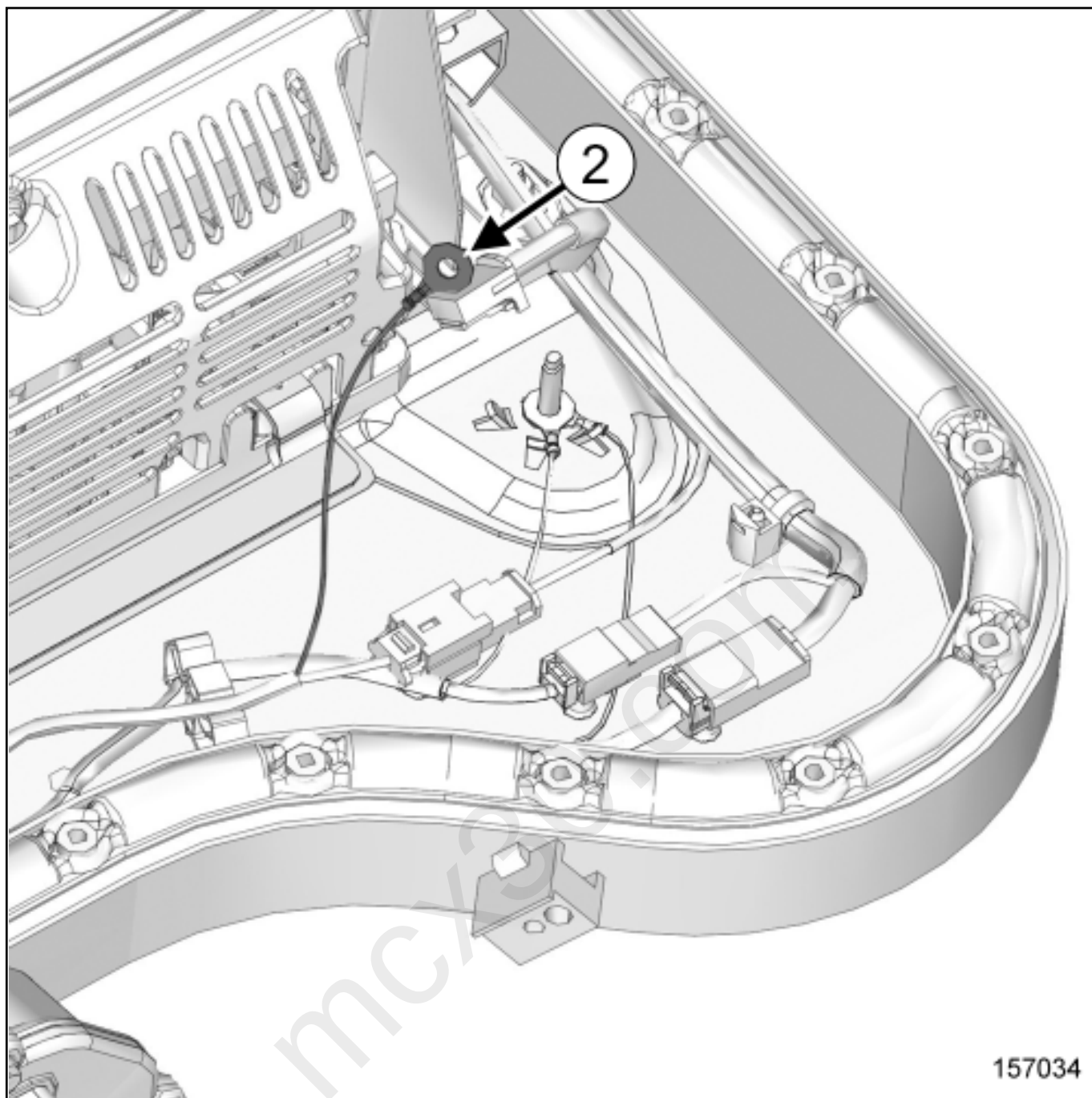
1. REMOVAL PREPARATION OPERATION

- ▣ Remove the traction battery upper cover ([see 19E, Traction battery, Traction battery housing assembly : Exploded view](#)) .

2. REMOVAL OPERATION

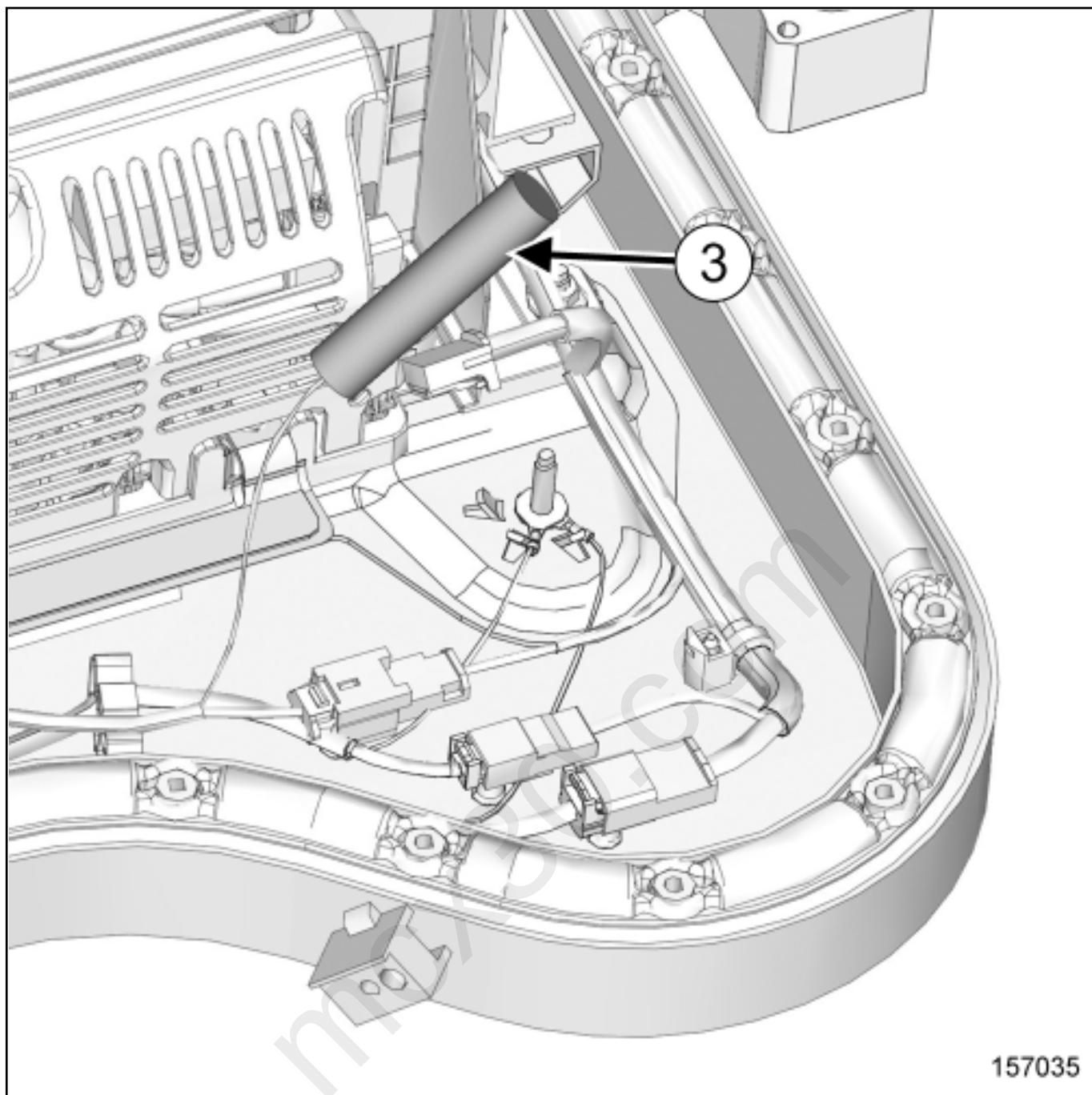


- Remove the earth electric connection nut(1) from the lower cover using an insulated magnetic socket ([see 19E, Traction battery, Traction battery module stack assembly : Exploded view](#)) .



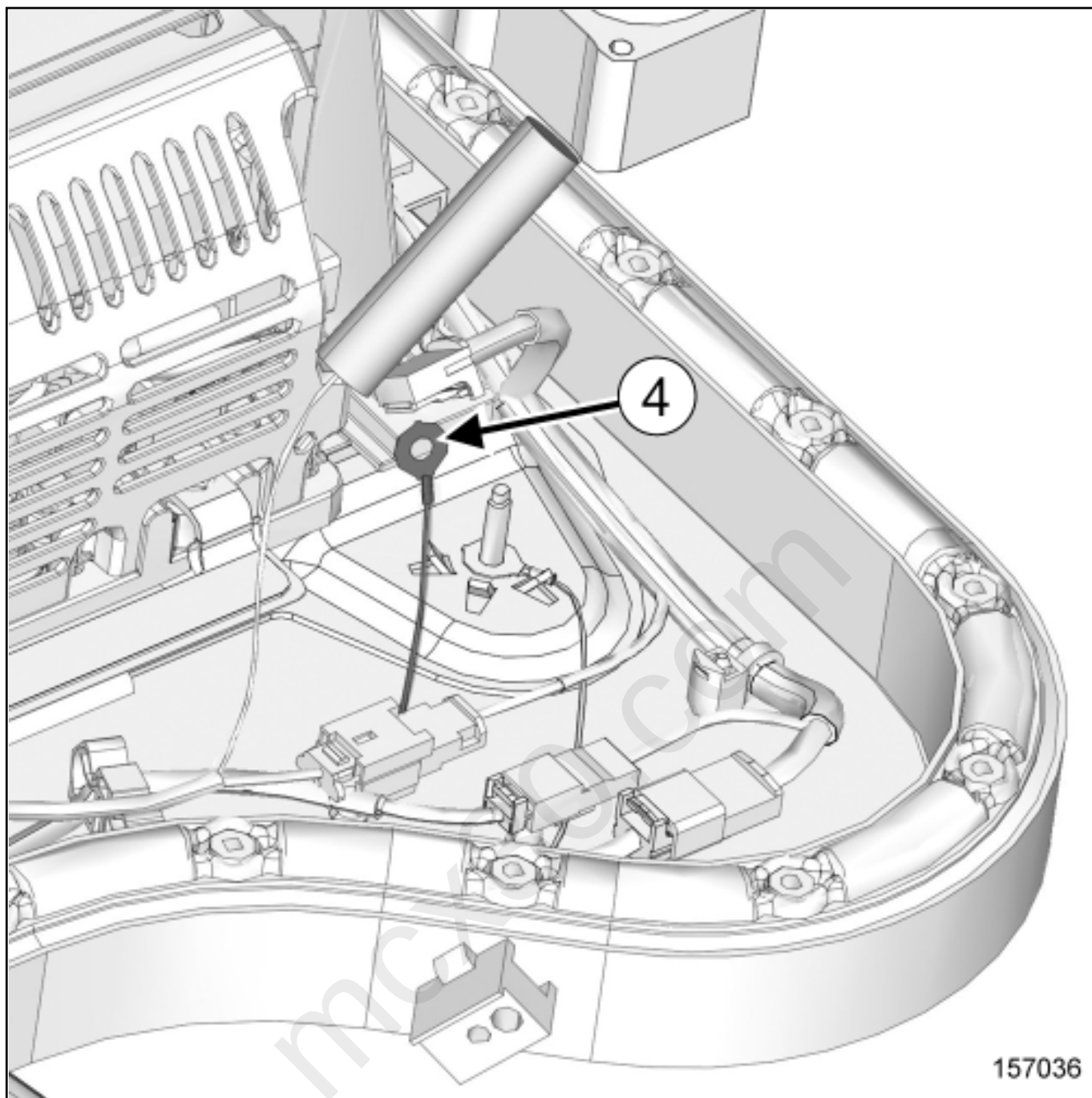
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■ Move the safety device switch socket interlock electric earth lug(2) from the electric earth stud using the toolSet of trim removal levers.(Car. 1363) .

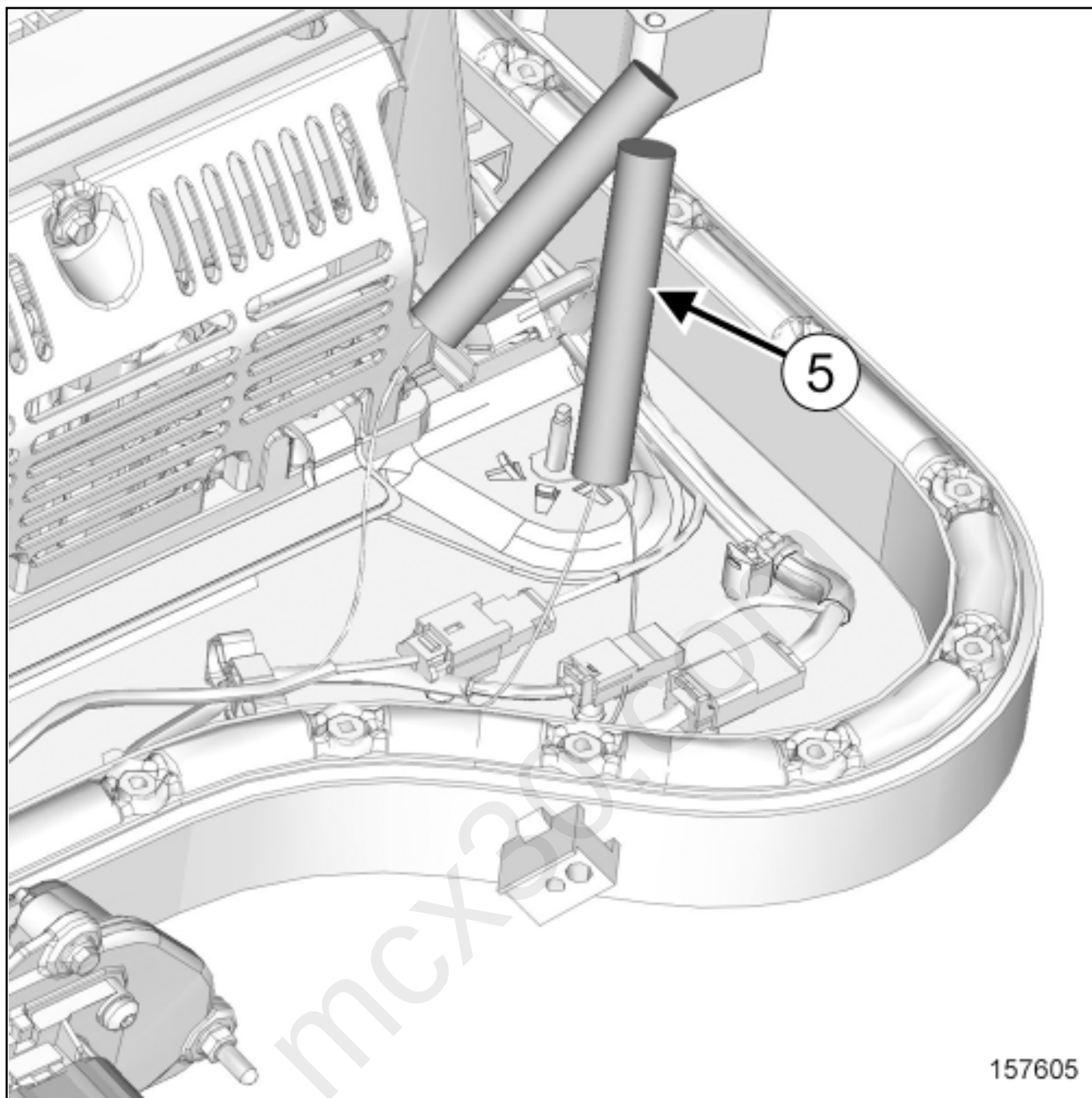


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- Insulate the safety device switch socket interlock electric earth lug(3) .

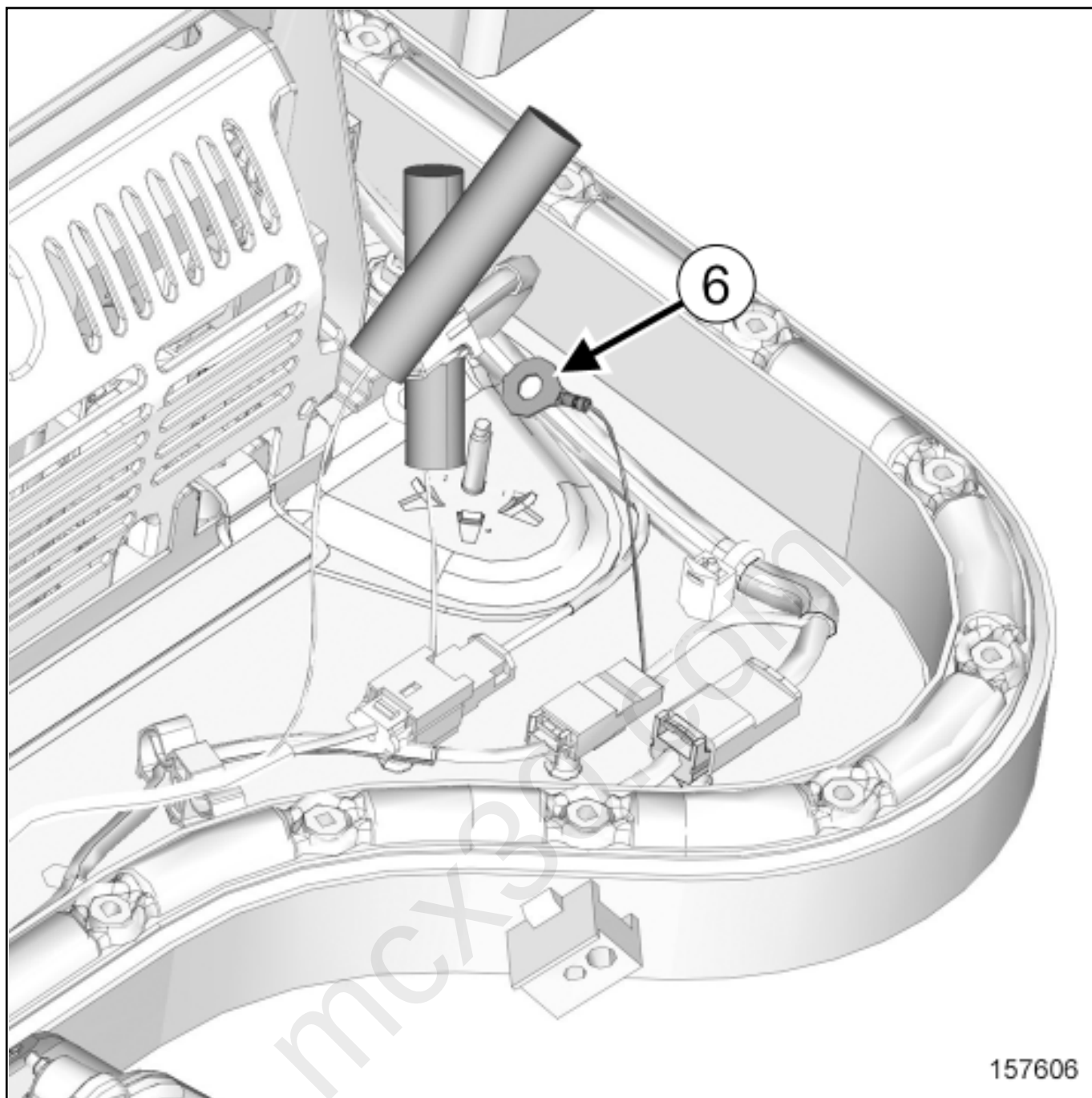


■ Move the interlock wiring lug of the high voltage connector(4) using the toolSet of trim removal levers. (Car. 1363) .



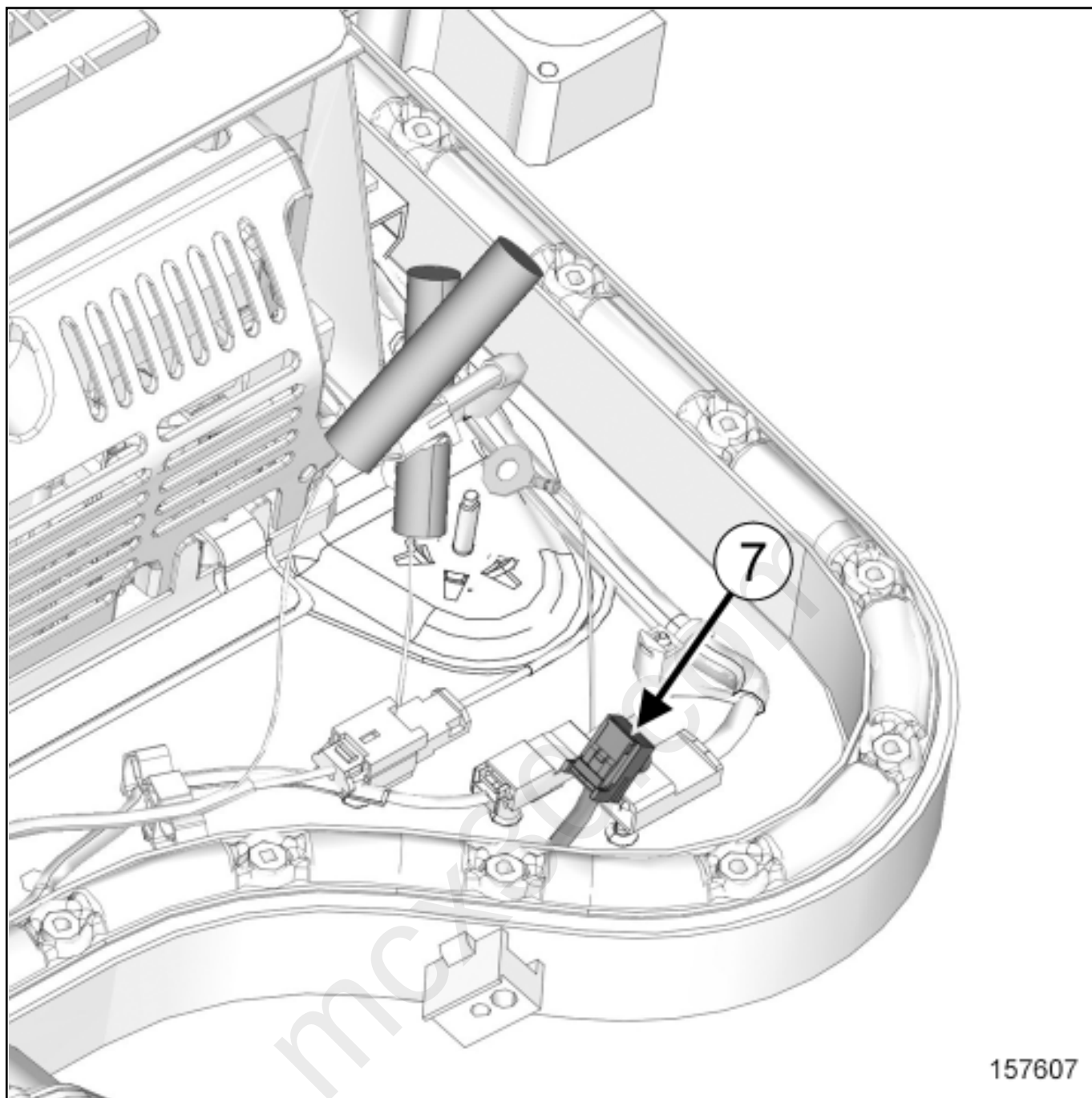
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- Insulate the high voltage connector interlock electric earth lug(5) .



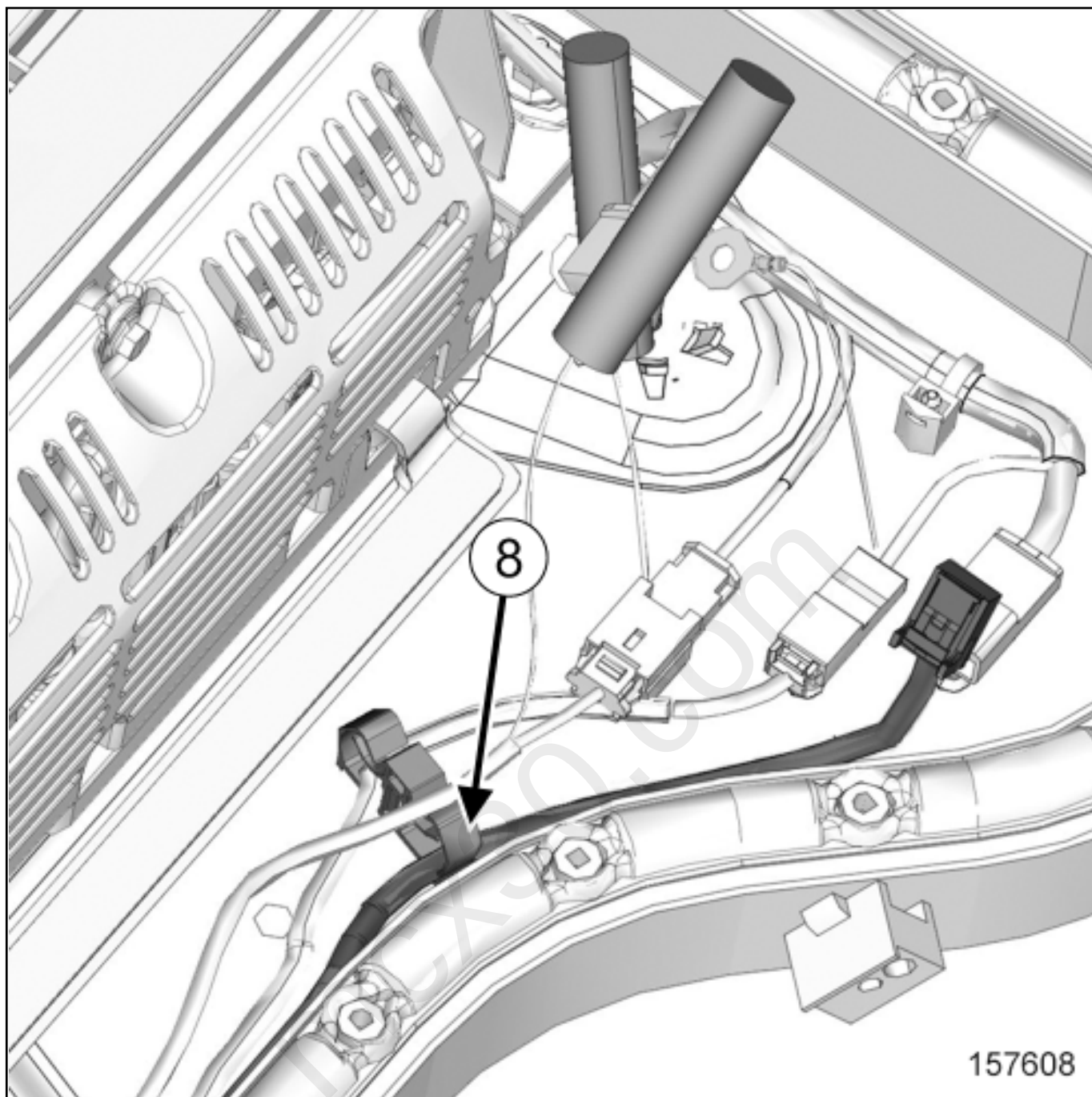
■ Move :

- the lug of the low voltage connector(6) using the toolSet of trim removal levers.(Car. 1363) ,
- the low voltage connector wiring.



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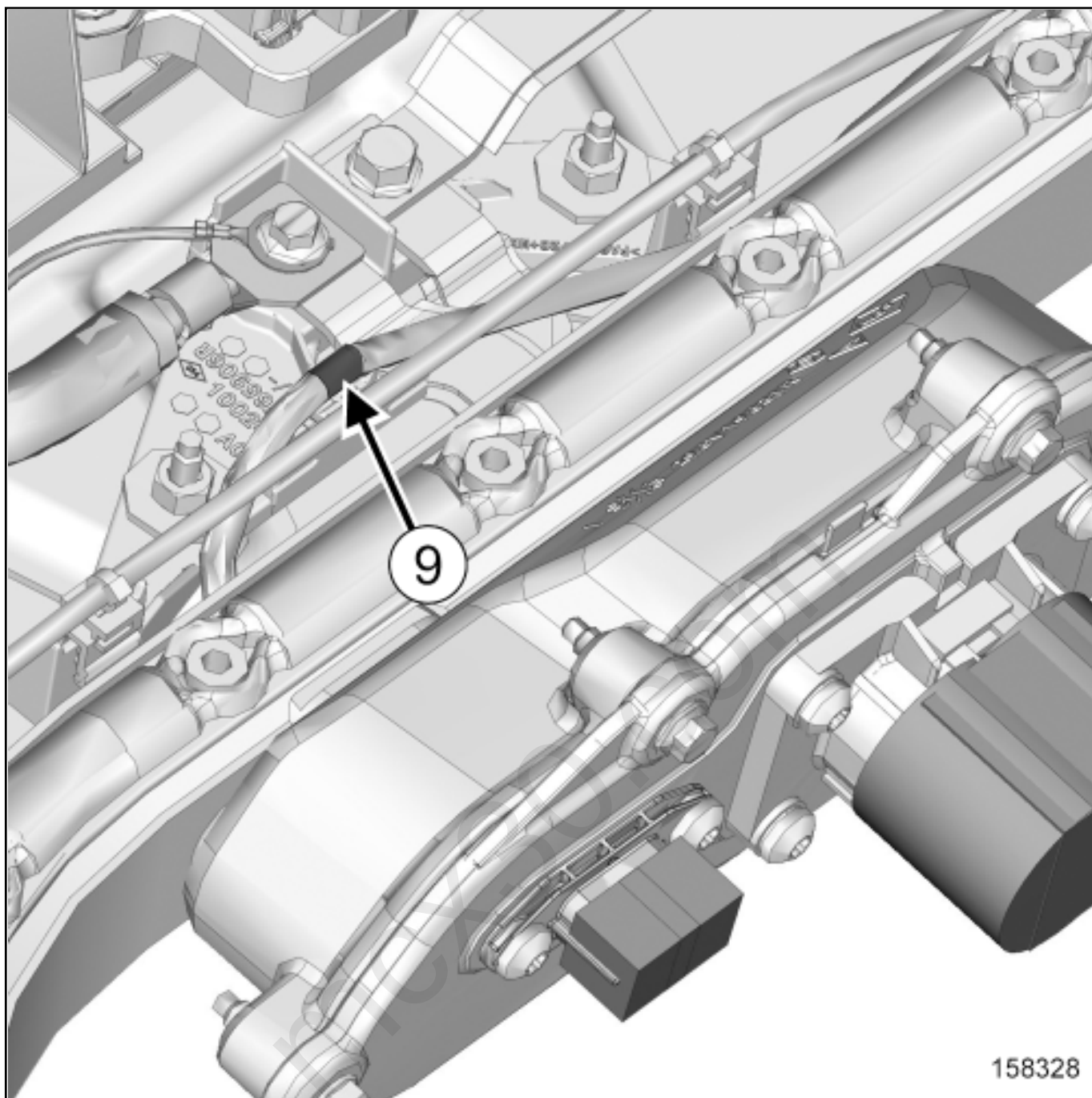
■ Disconnect the low voltage connector wire plug(7) using the toolSet of trim removal levers.(Car. 1363) .



Unclip the low voltage connector wiring from the twin clip(8) using the toolSet of trim removal levers. (Car. 1363) .

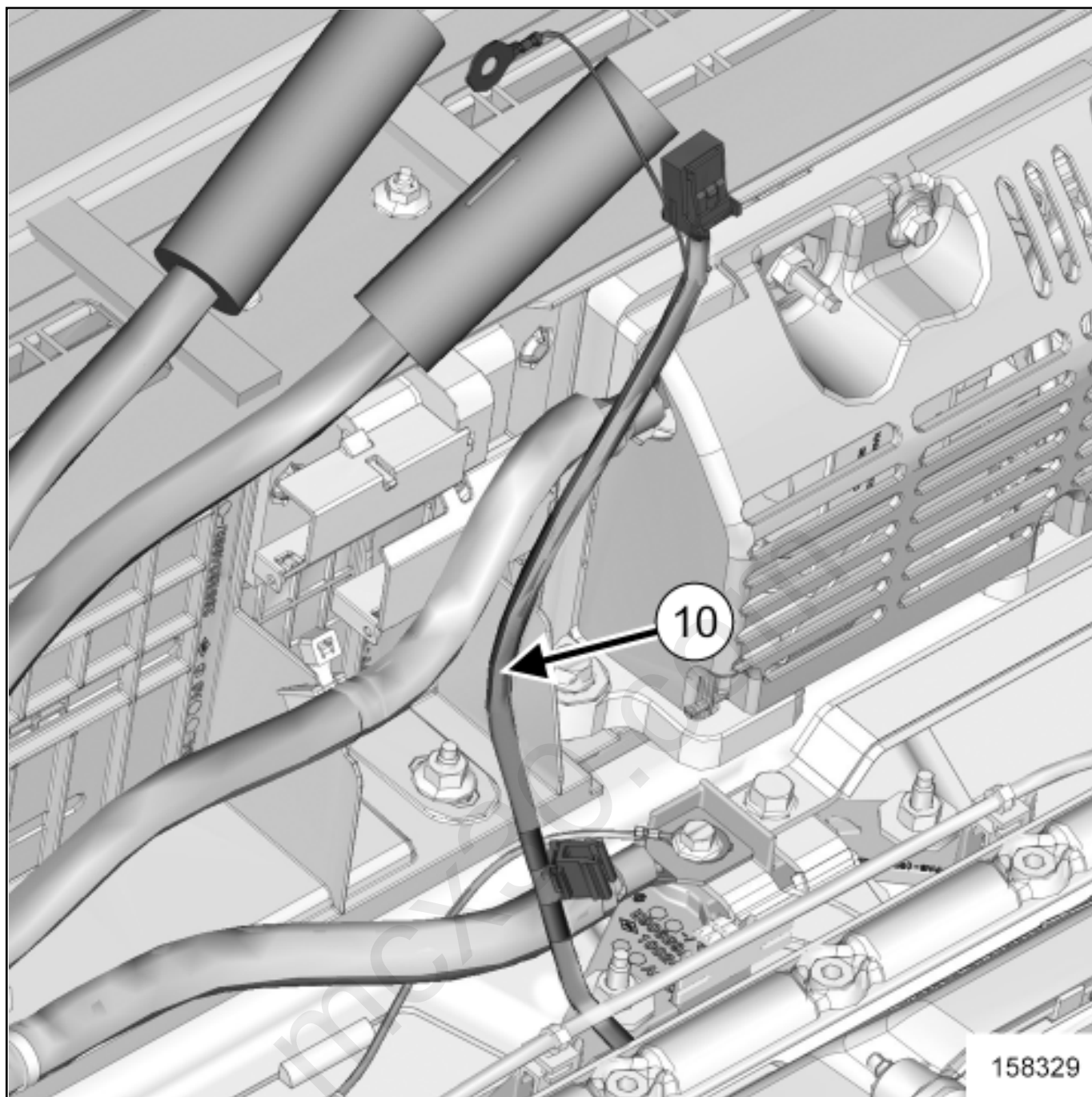


Move the low voltage connector wiring using the toolSet of trim removal levers.(Car. 1363) .

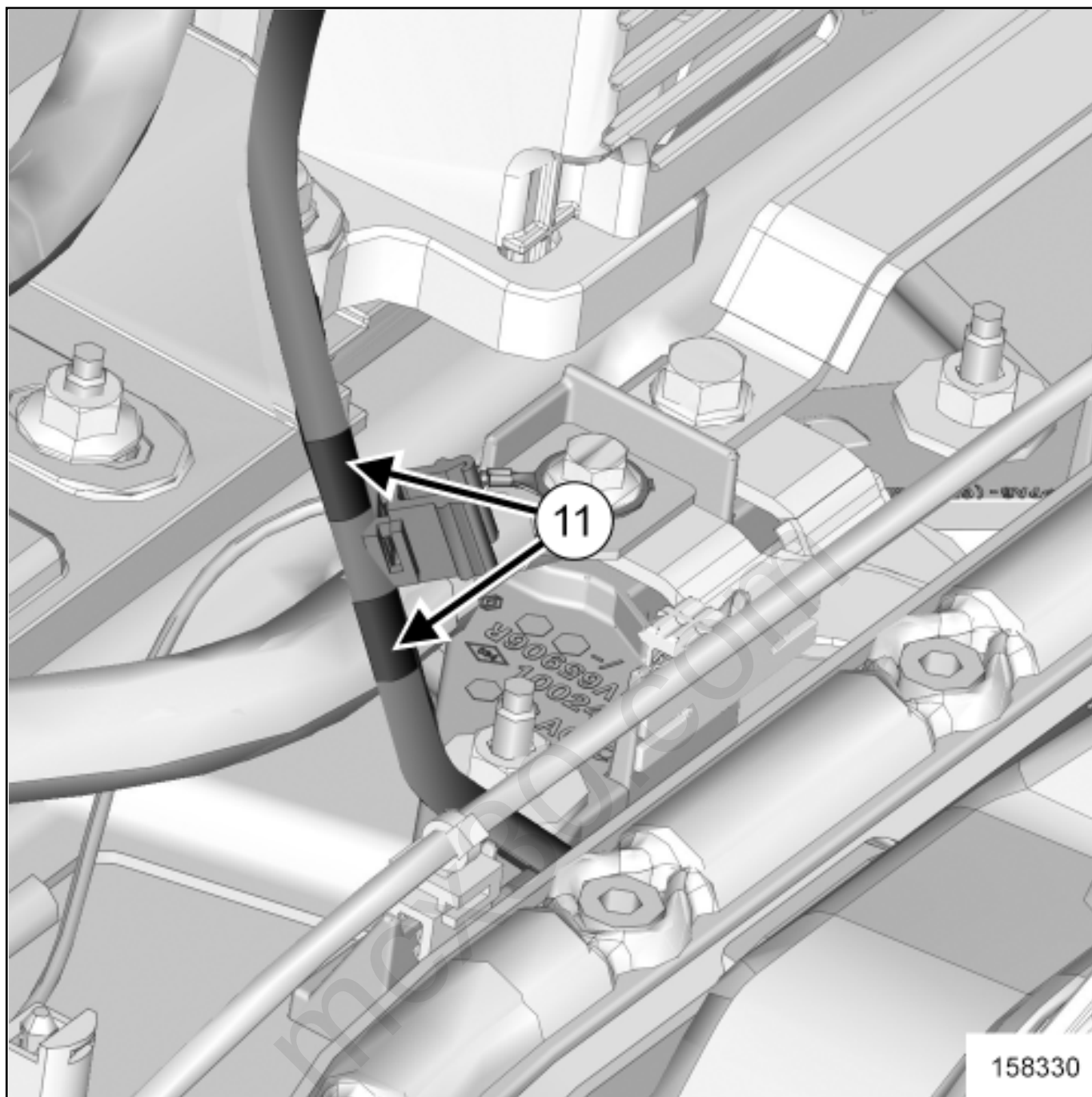


Mark the location of the clamp on the low voltage connector wiring(9) using a paint marker.

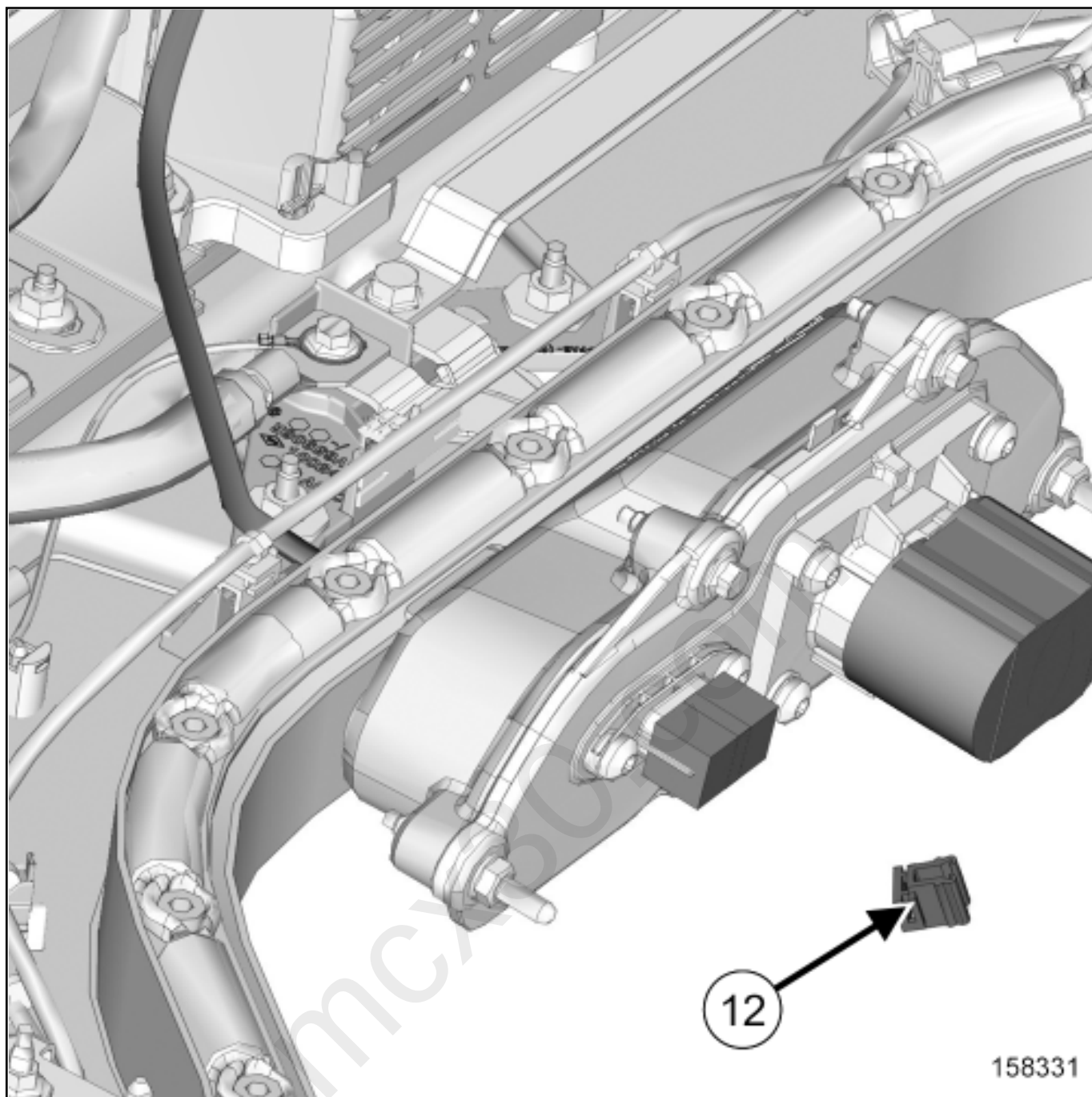
Unclip the clamp on the low voltage connector wiring using the toolSet of trim removal levers.(Car. 1363) .



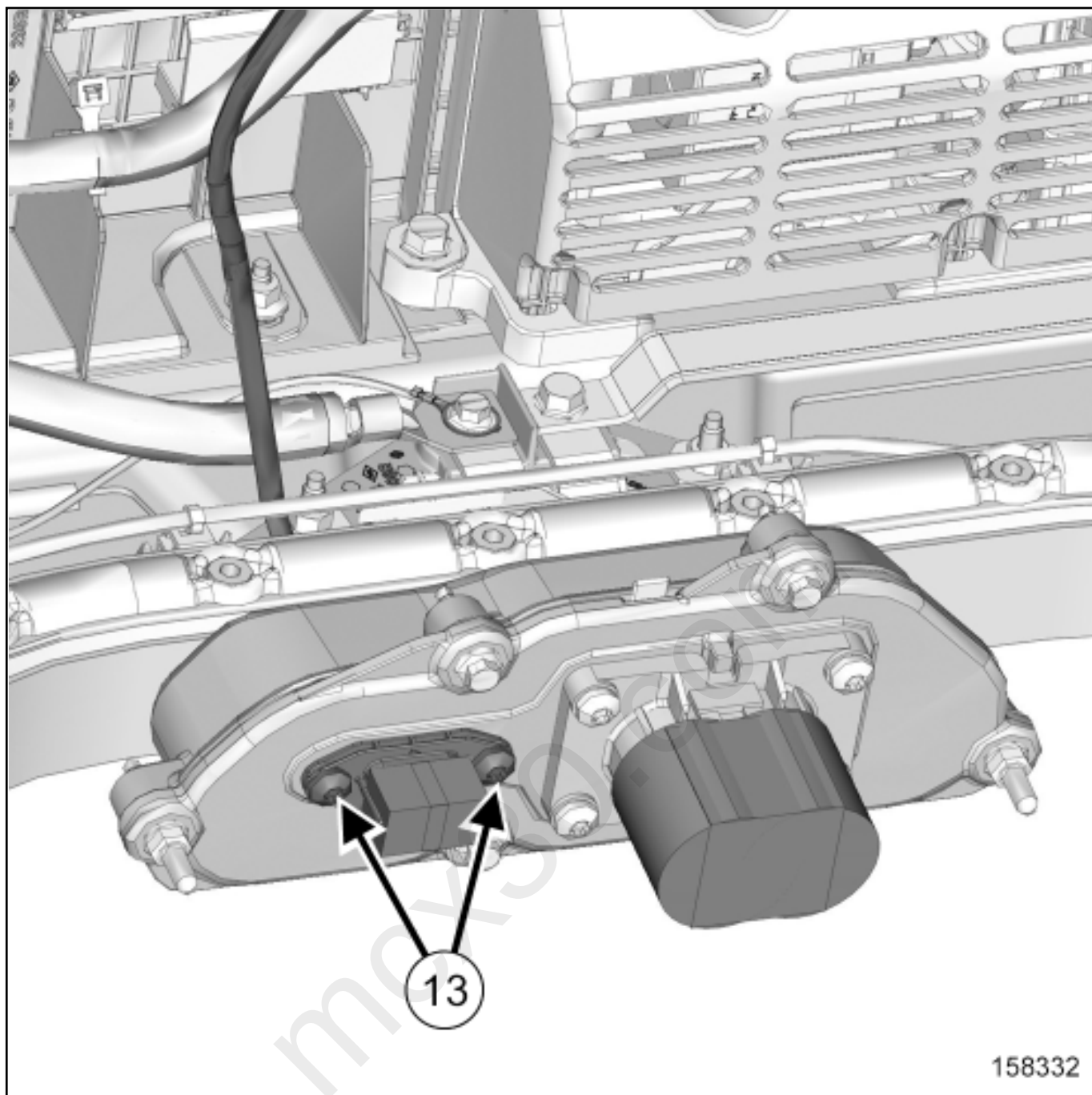
Move the low voltage connector wiring(10) .



Cut the adhesive tape on the clip(11) on the low voltage connector wiring using an knife.



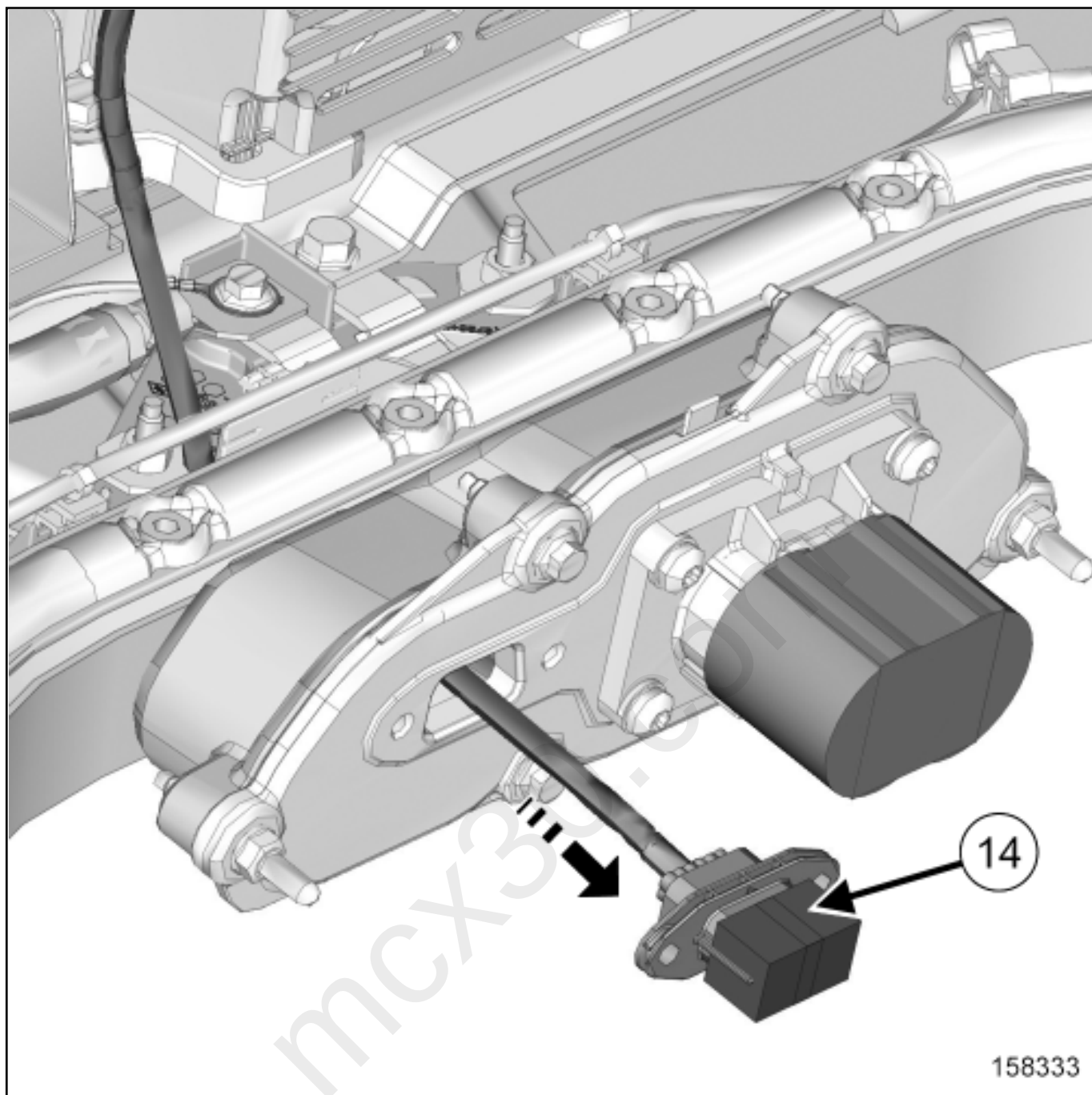
Remove the clip(12) from the low voltage connector wiring.



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Remove the low voltage connector screws(13) using an insulated magnetic socket([see 19E, Traction battery, Traction battery module stack assembly : Exploded view](#)) .



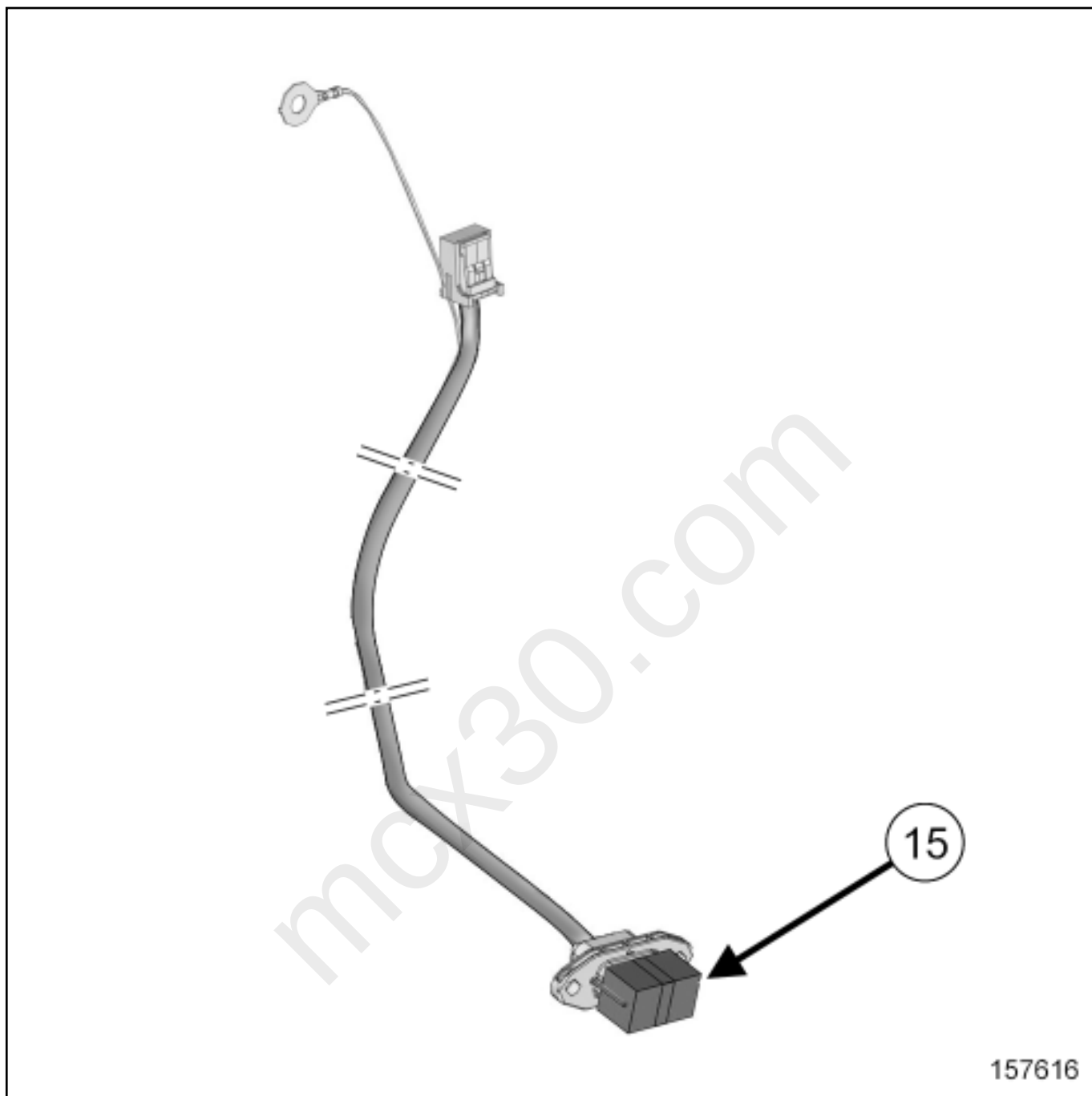
Remove the low voltage connector(14) .



Note:

Pay attention to the wire during removal.

1. REFITTING PREPARATION OPERATION



Check the low voltage connector protection cover(15) .

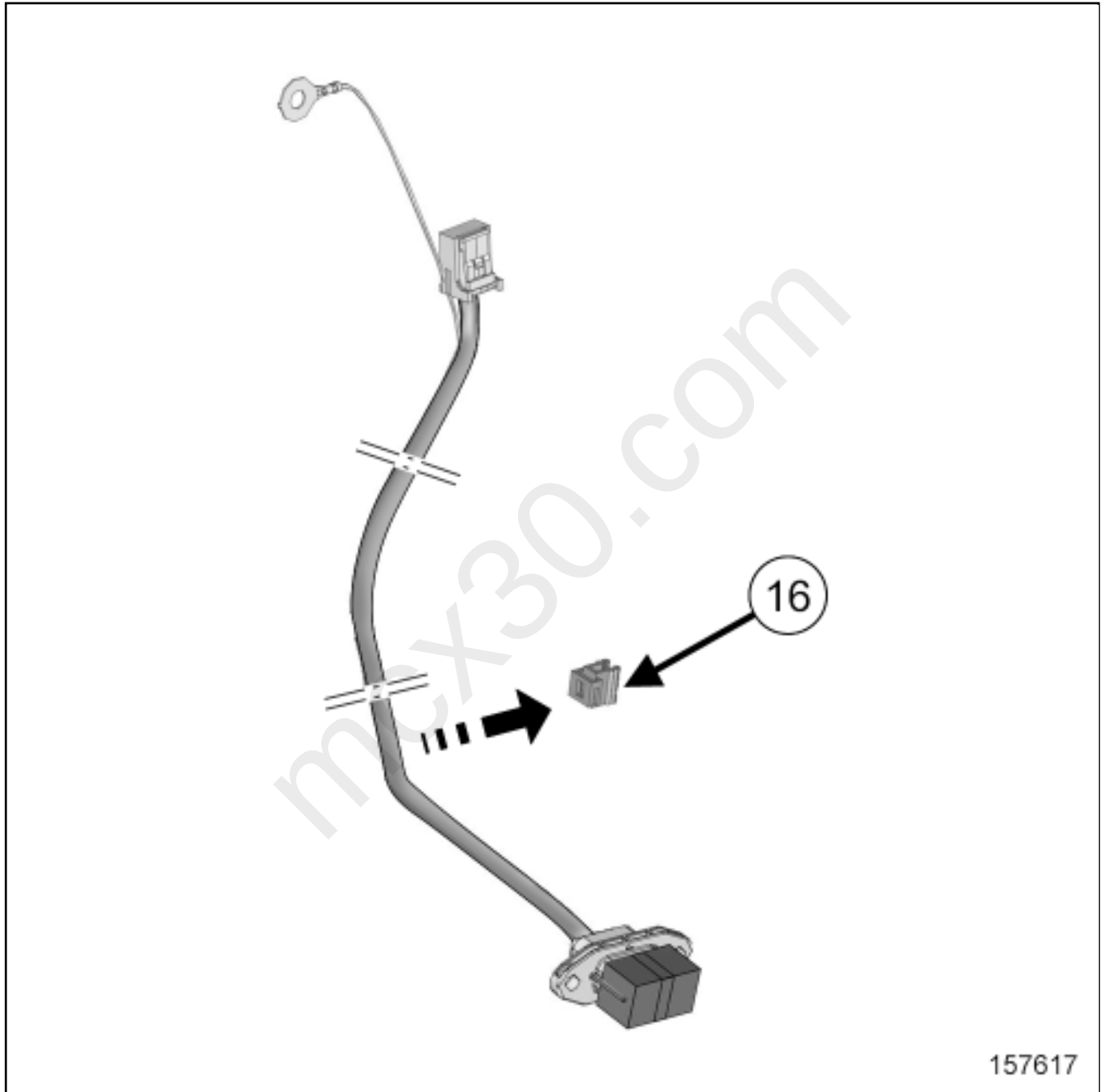


Note:

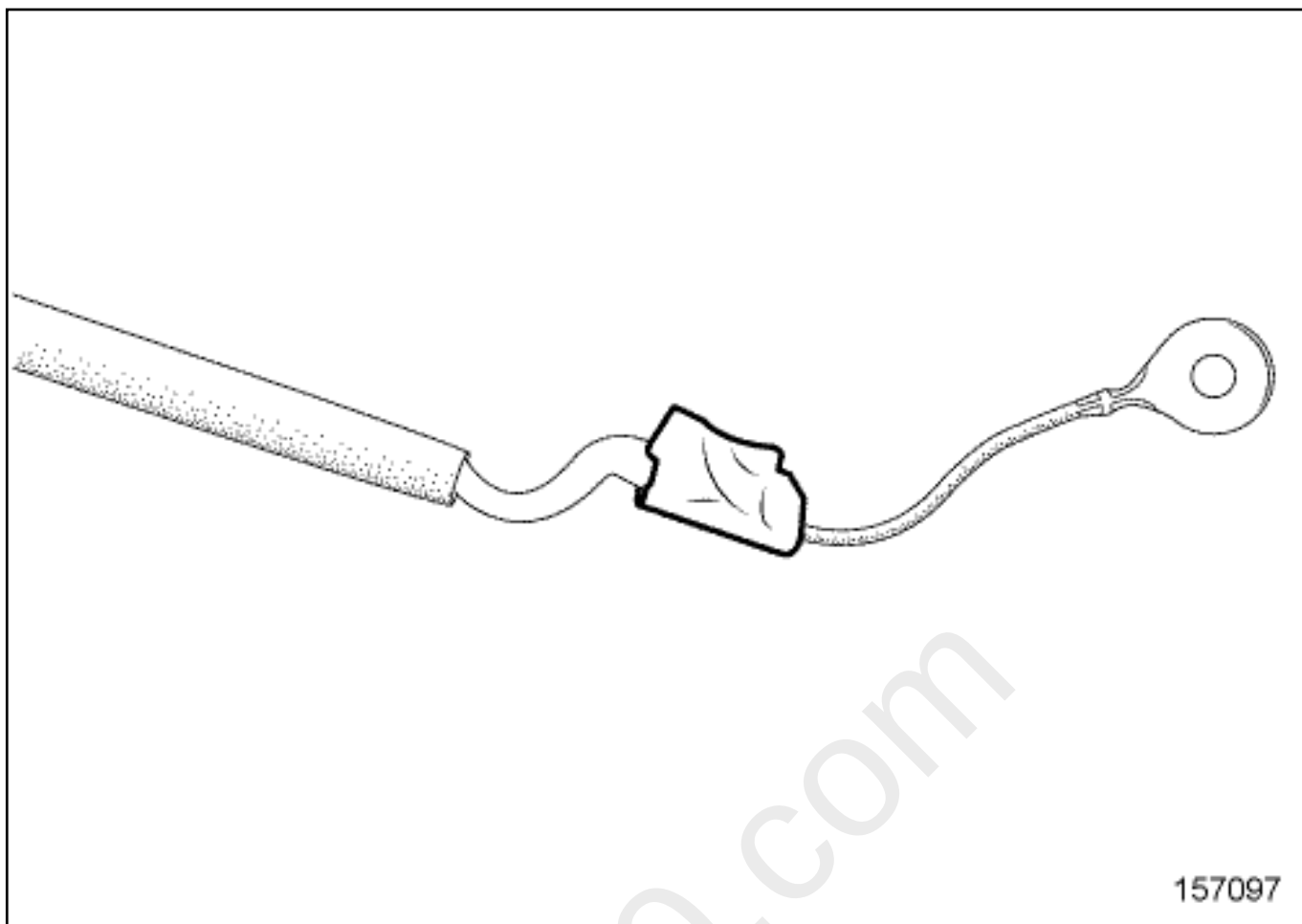
In case of damage of the seal, replace the low voltage connector.

Mark the location of the clamp on the new low voltage connector wiring using a paint marker.

Cut the the adhesive tape on the clip on the new low voltage connector wiring using an knife.



Remove the clip(16) from the new low voltage connector wiring.



Gather the interlock high voltage connector plug with the lug wire using adhesive tape.

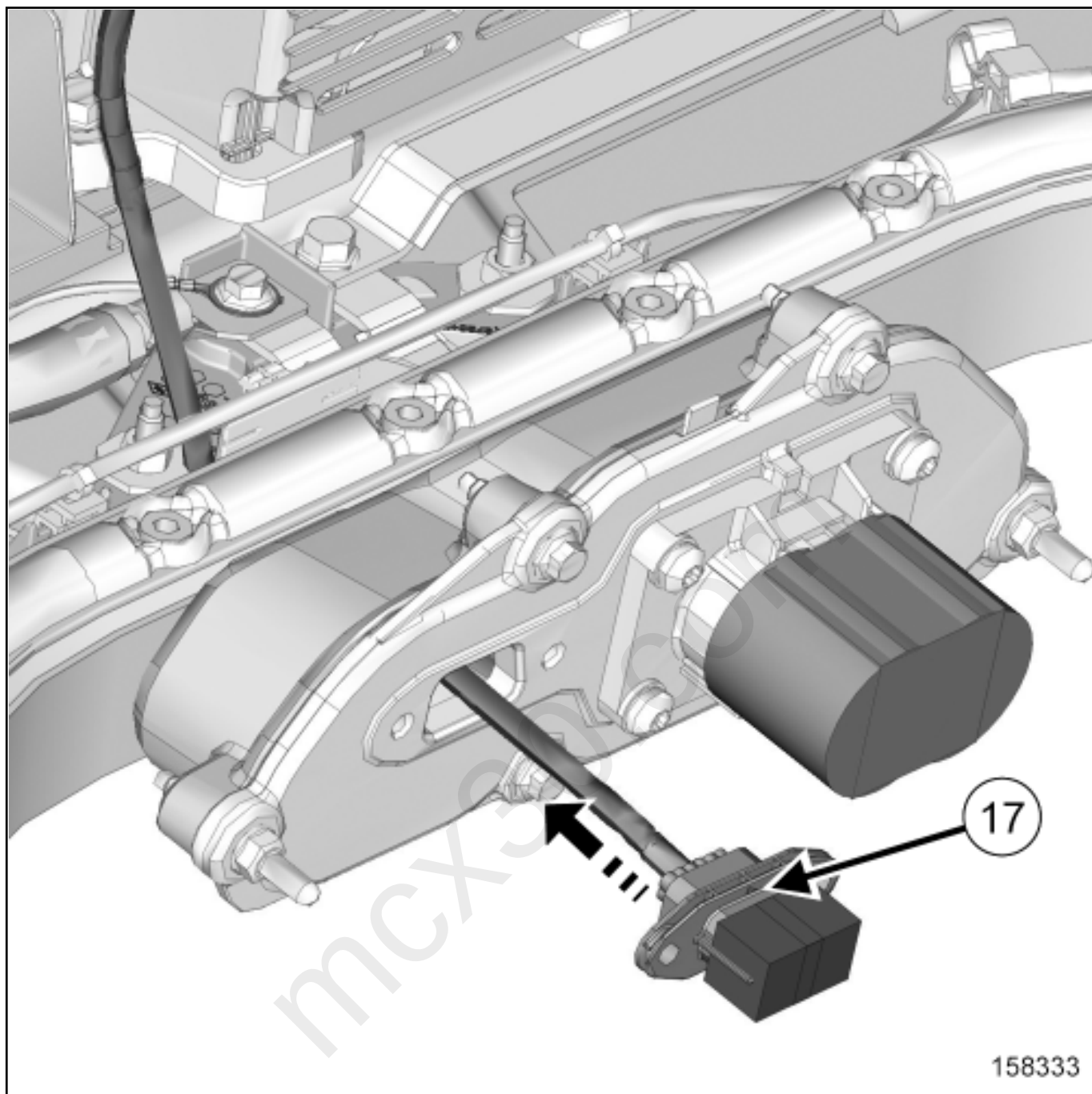
Clean the faces around the connector hole on the connectors support plate using the BRAKE CLEANER and LINT-FREE CLOTH (see **Vehicle: Parts and consumables for the repair**) .

Note:

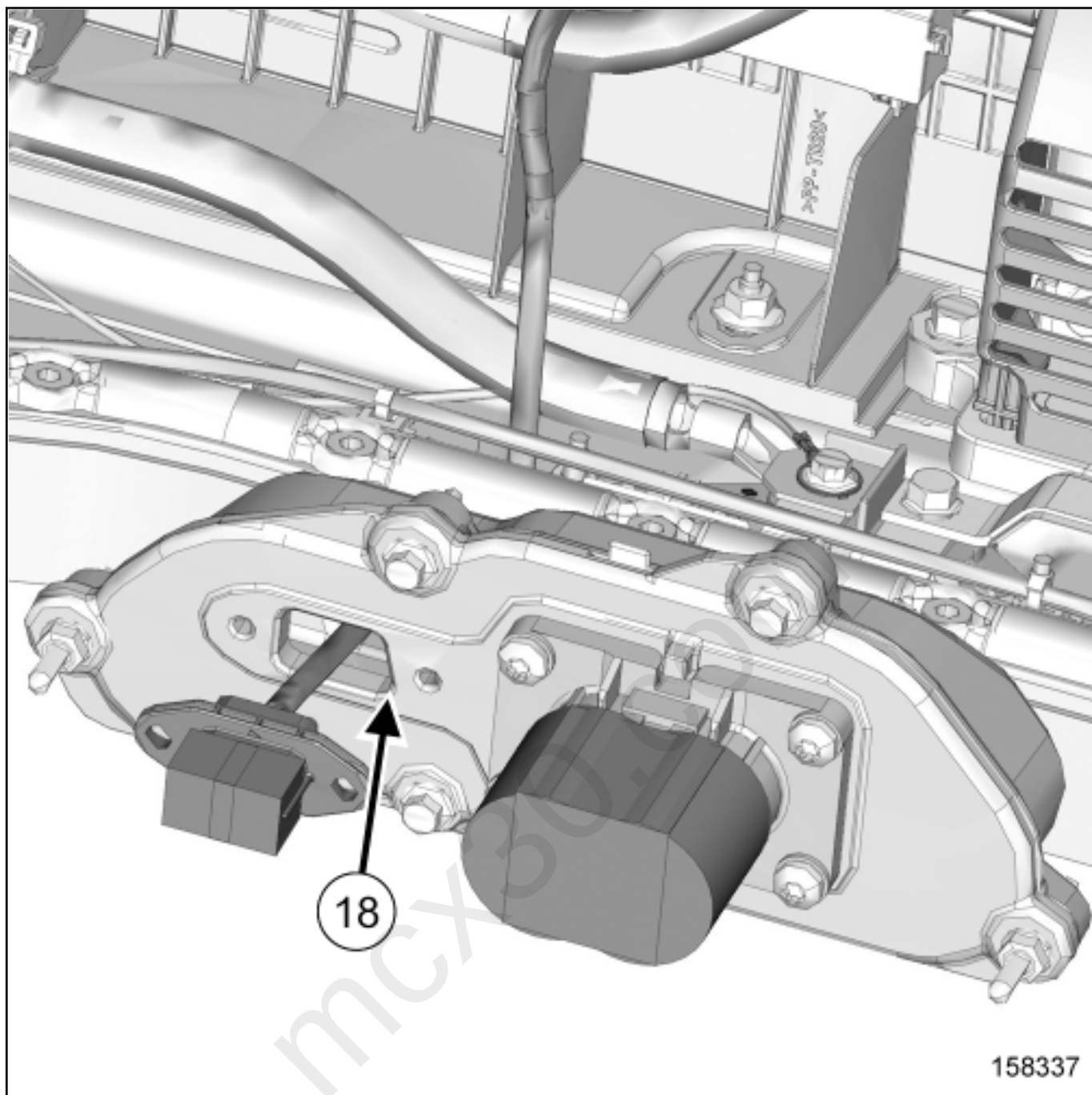


Controlling the appearance of the area of waterproofing on the connectors support plate.

Clean the faces on the low voltage connector socket using the LINT-FREE CLOTH (see **Vehicle: Parts and consumables for the repair**) .



Refit the low voltage connector wiring(17) using an insulated needle nose pliers.

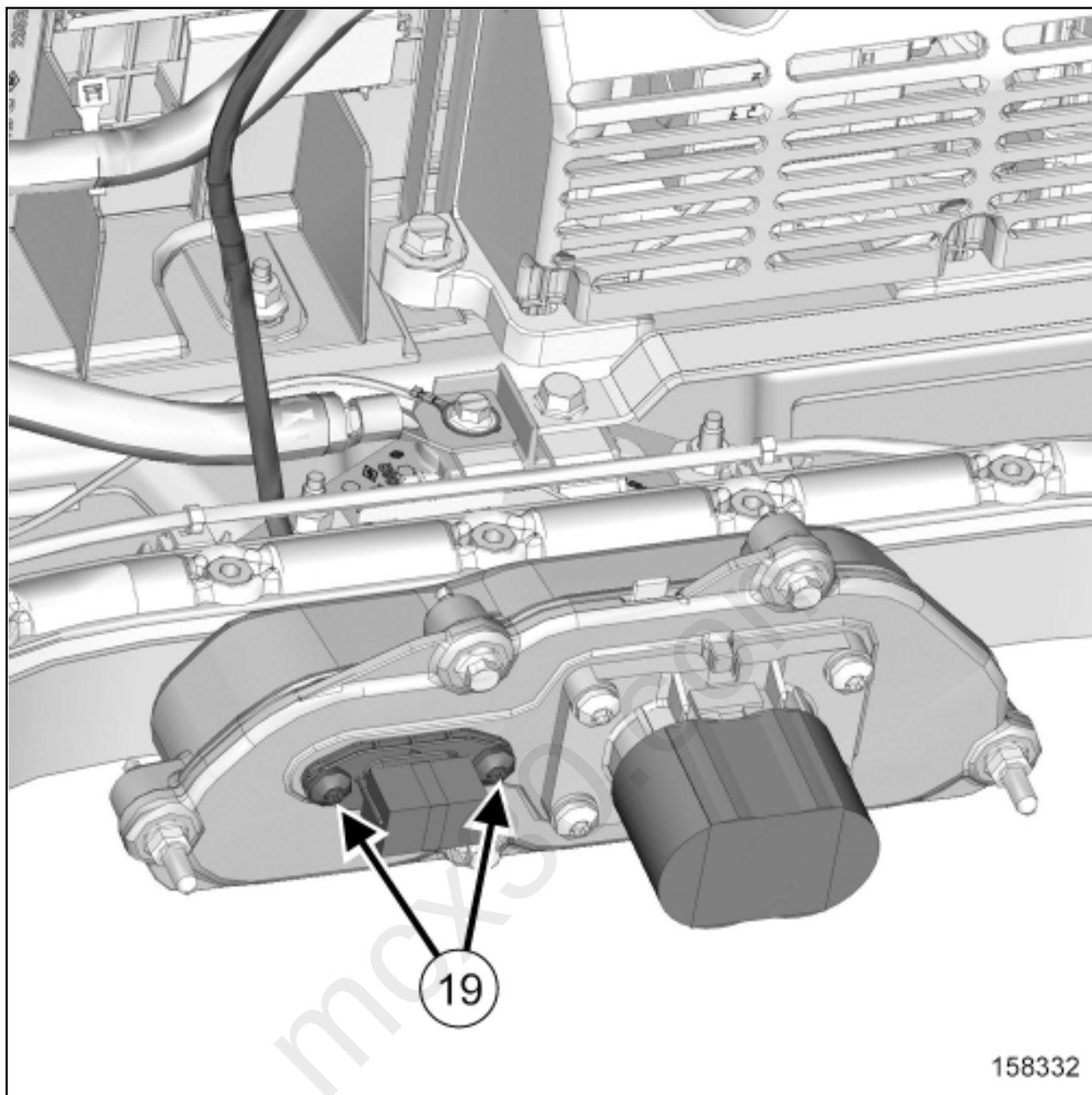


Note:



Pay attention to the mechanical coding on the lower cover(18) .

Beware of not pinching the sealing.



Refit the low voltage connector screws(19) using an insulated magnetic socket([see 19E, Traction battery, Traction battery module stack assembly : Exploded view](#)) .



Torque tighten the low voltage connector screws using an insulated magnetic socket([see 19E, Traction battery, Traction battery module stack assembly : Exploded view](#))

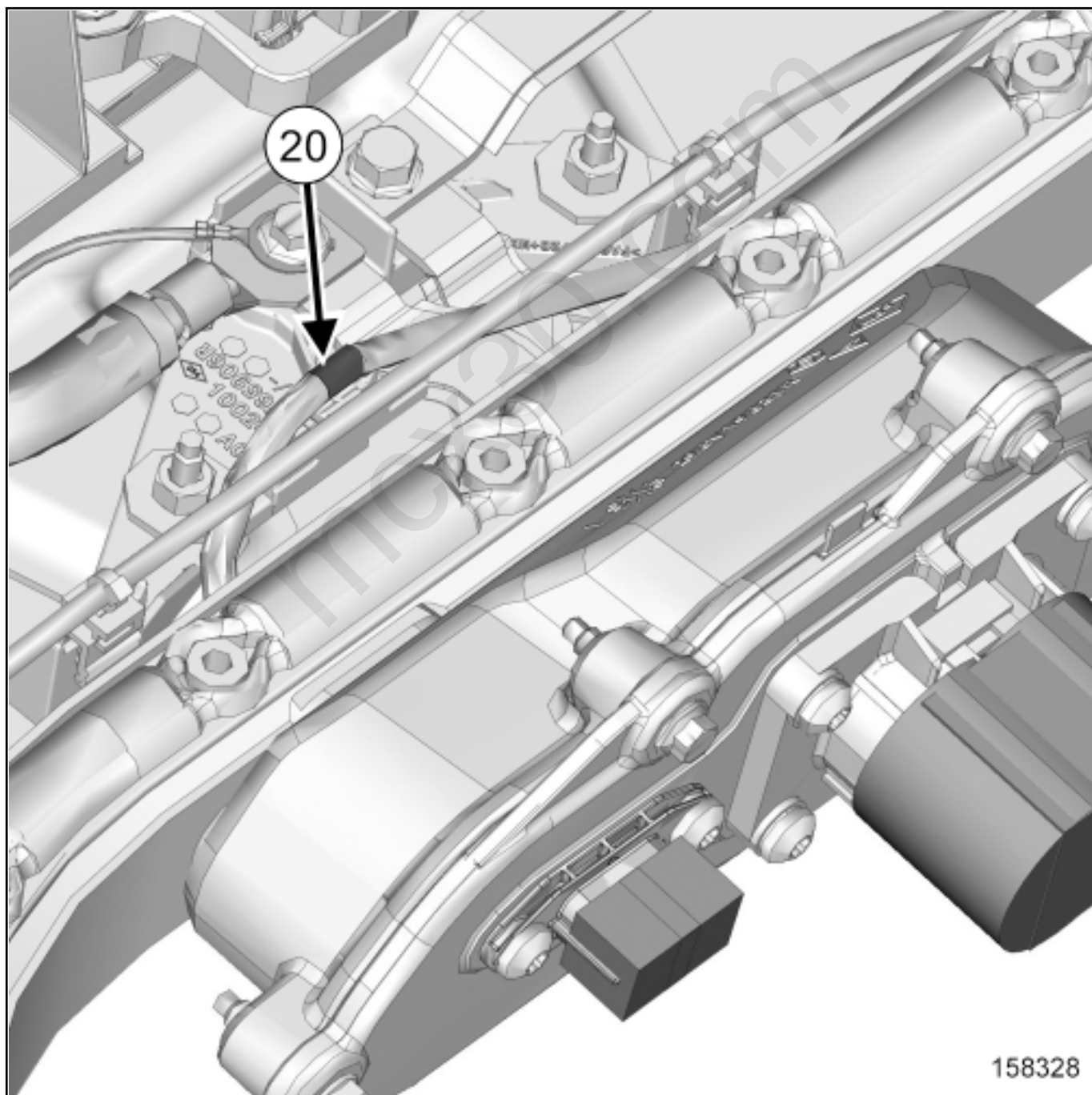


Note:

Make sure the voltage connector socket is perfectly in place on the lower cover.

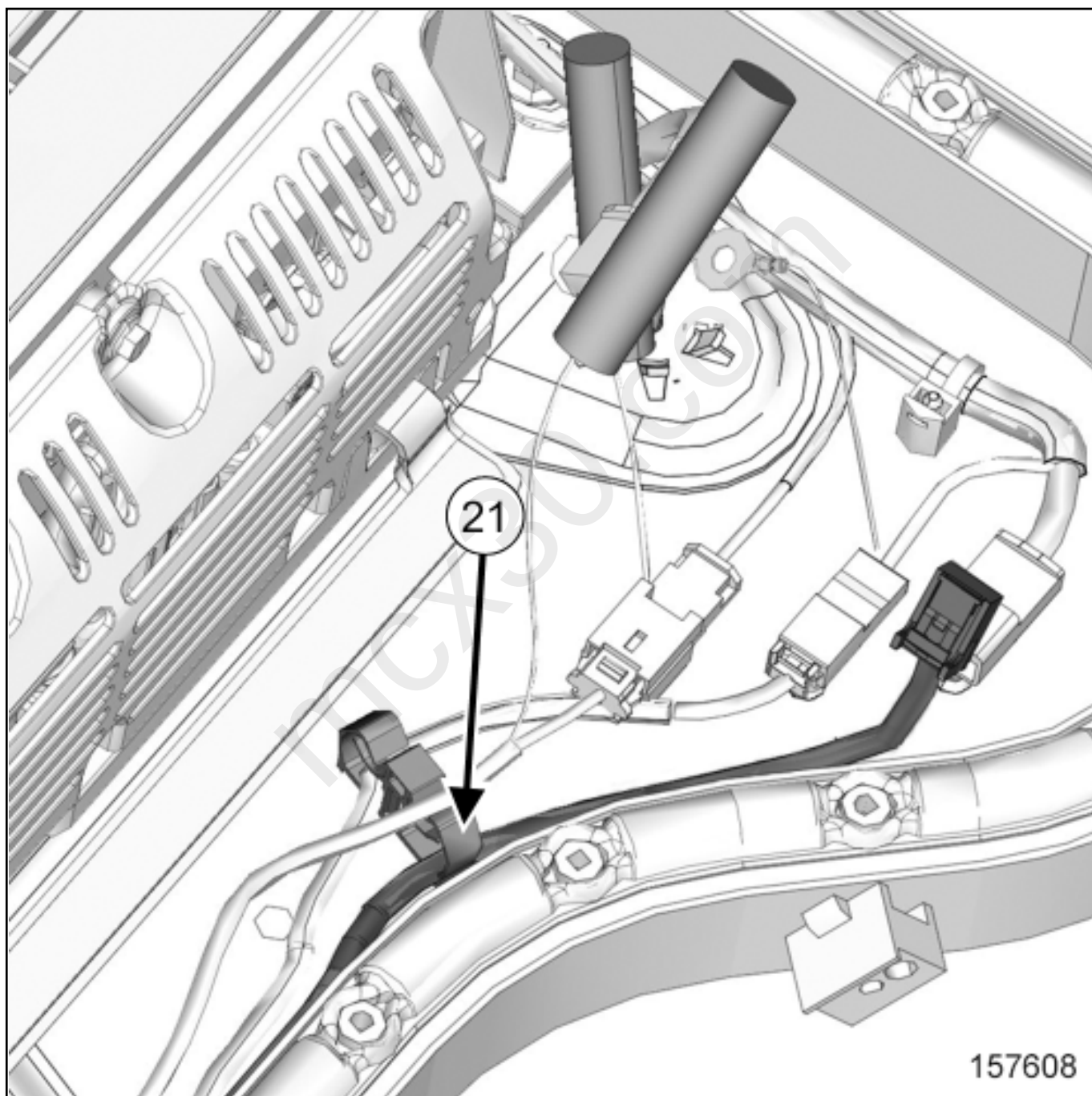
Mark always the screws with a PAINT MARKER of a color different from the original.

Refit the clip on the low voltage connector wiring using adhesive tape.



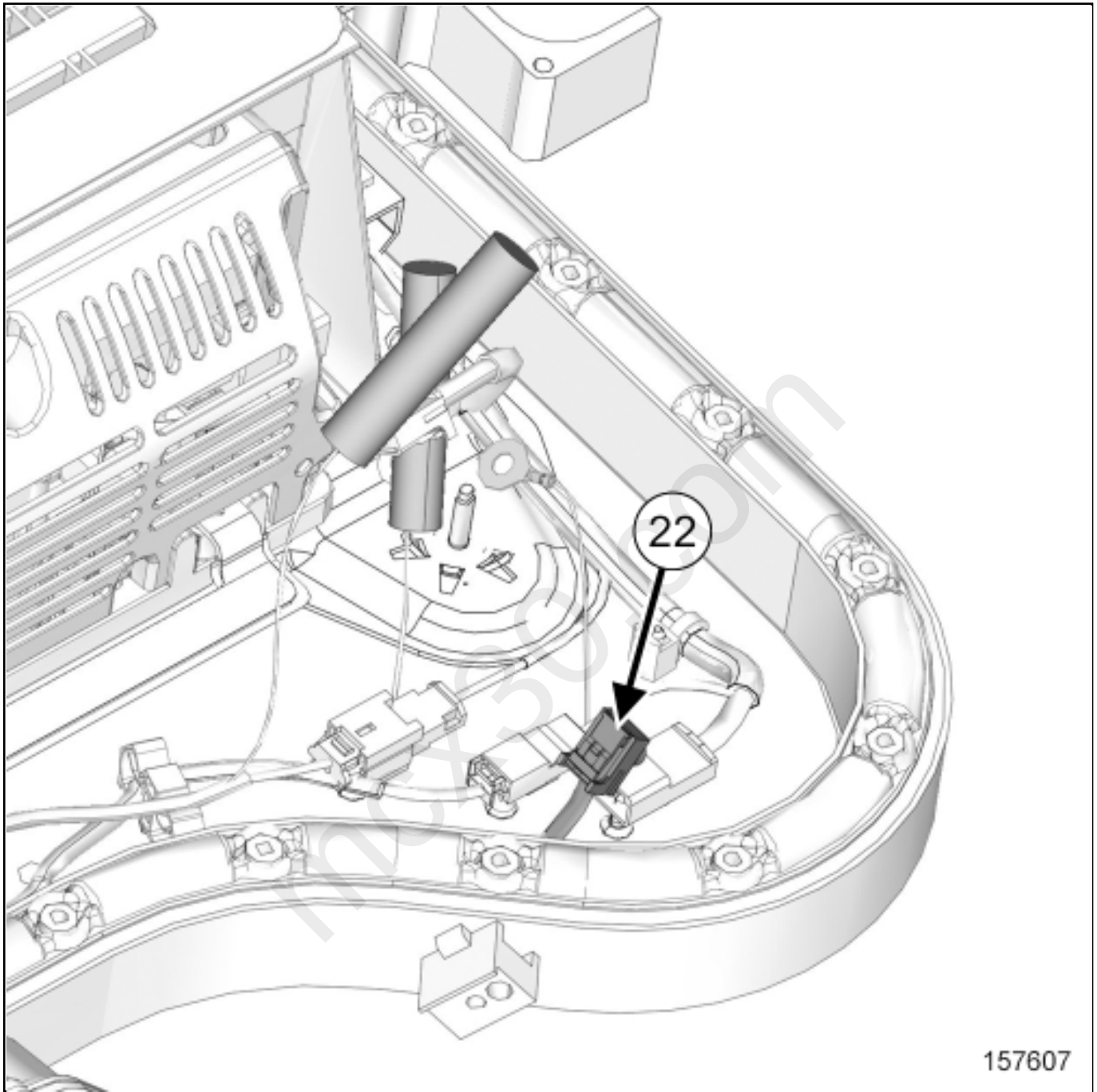
Clip the low voltage connector clip(20) on the insulated support.

Refit the wiring low voltage connector to the bottom of the lower cover using toolSet of trim removal levers.(Car. 1363) .



Refit the low voltage connector wiring on the twin clip(21) .

Remove the adhesive tape from the wirings.



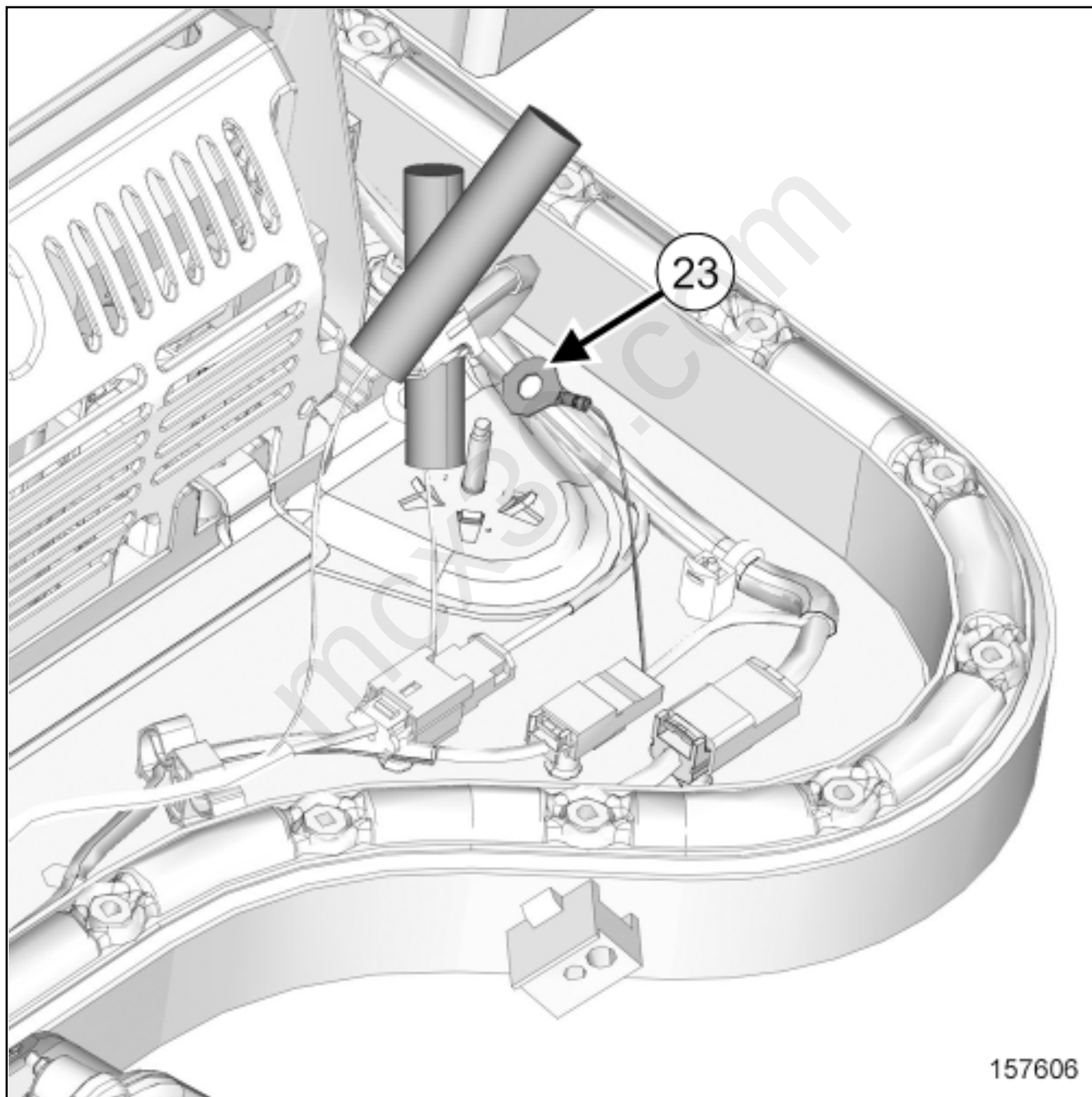
Connect the wiring plug of the low voltage connector(22) .



Note:

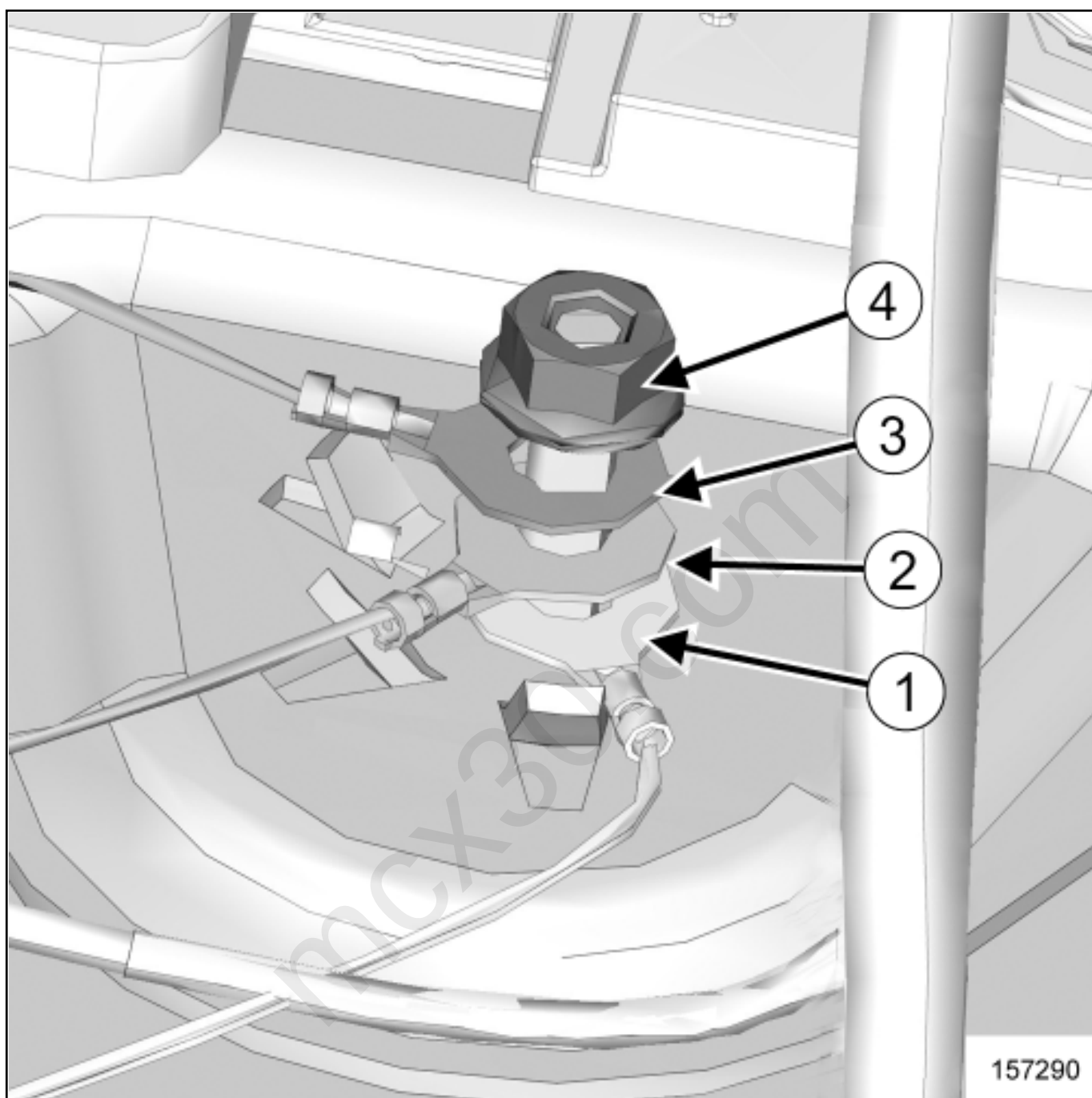
Make a push-pull test on the connector.

Refit the low voltage connector wiring on the bottom of the lower cover.



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Refit the low voltage connector electric earth lug(23) on the electric earth stud using the toolSet



(1) low voltage connector electric earth lug

(2) high voltage connector interlock electric earth lug

(3) safety device switch socket interlock electric earth lug

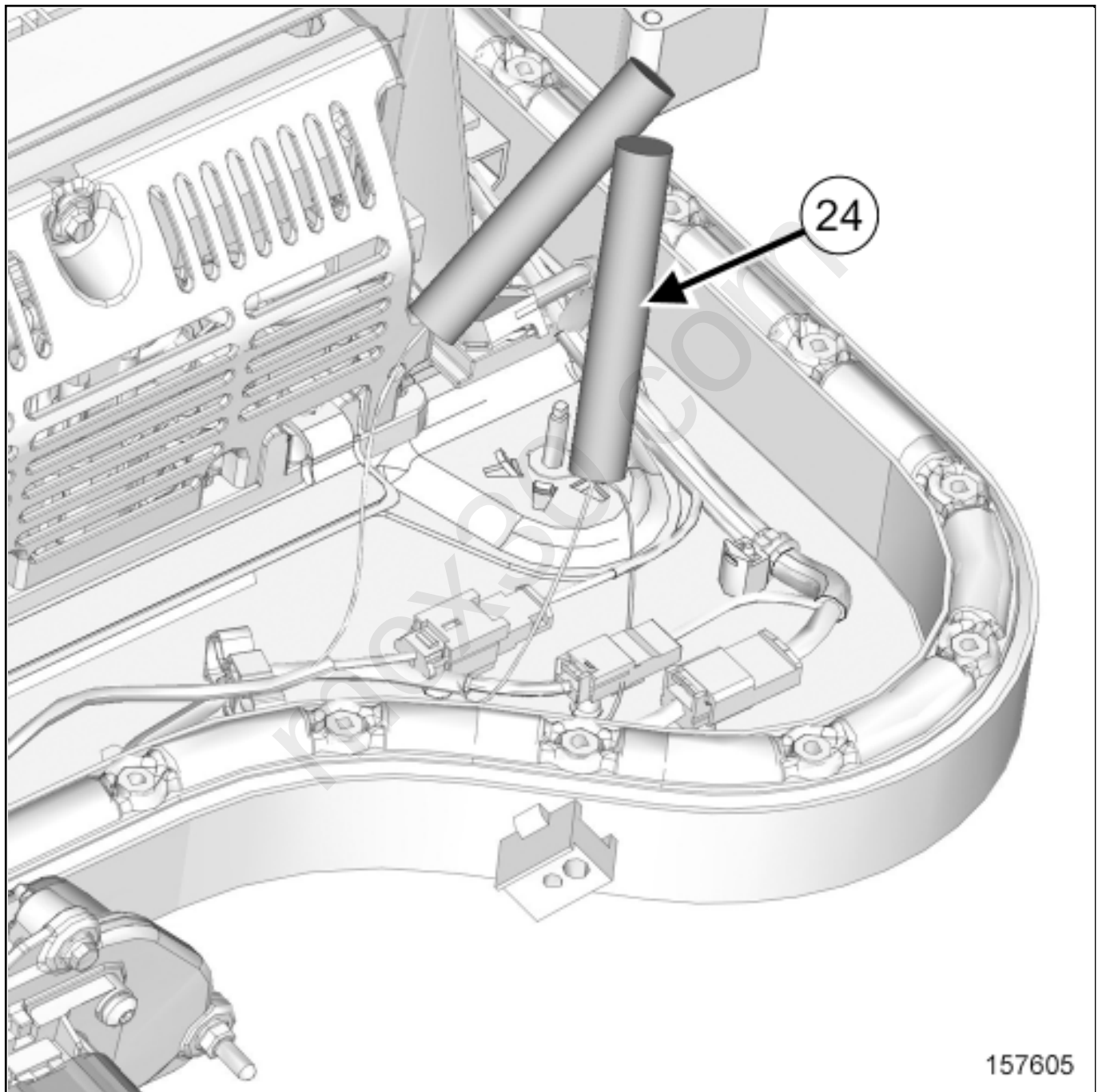
(4) nut

Note:



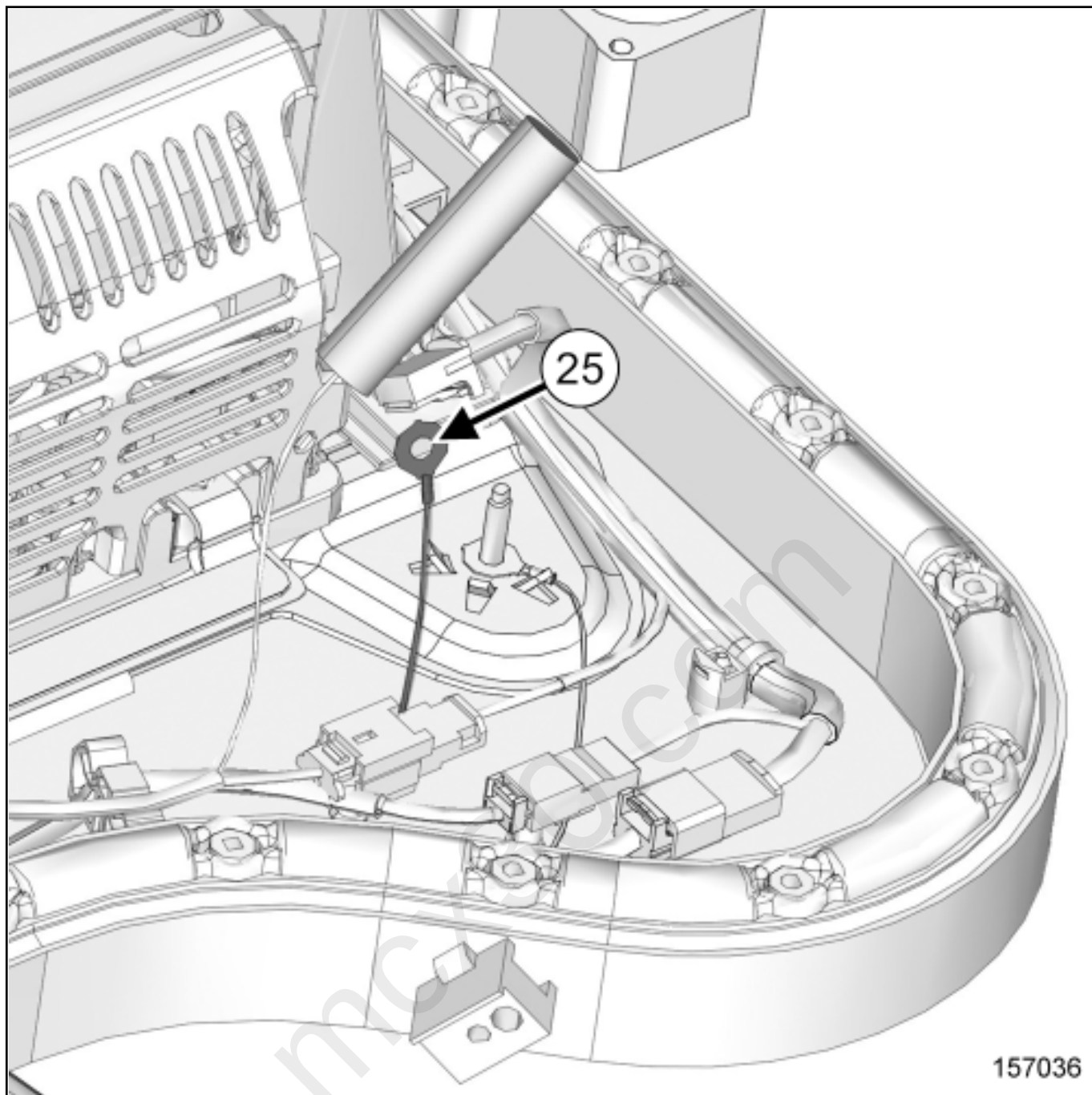
Pay attention to the mechanical coding.

Put the negative wiring on the bottom of the lower cover.



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Remove the insulation(24) from the high voltage connector interlock electric earth lug.



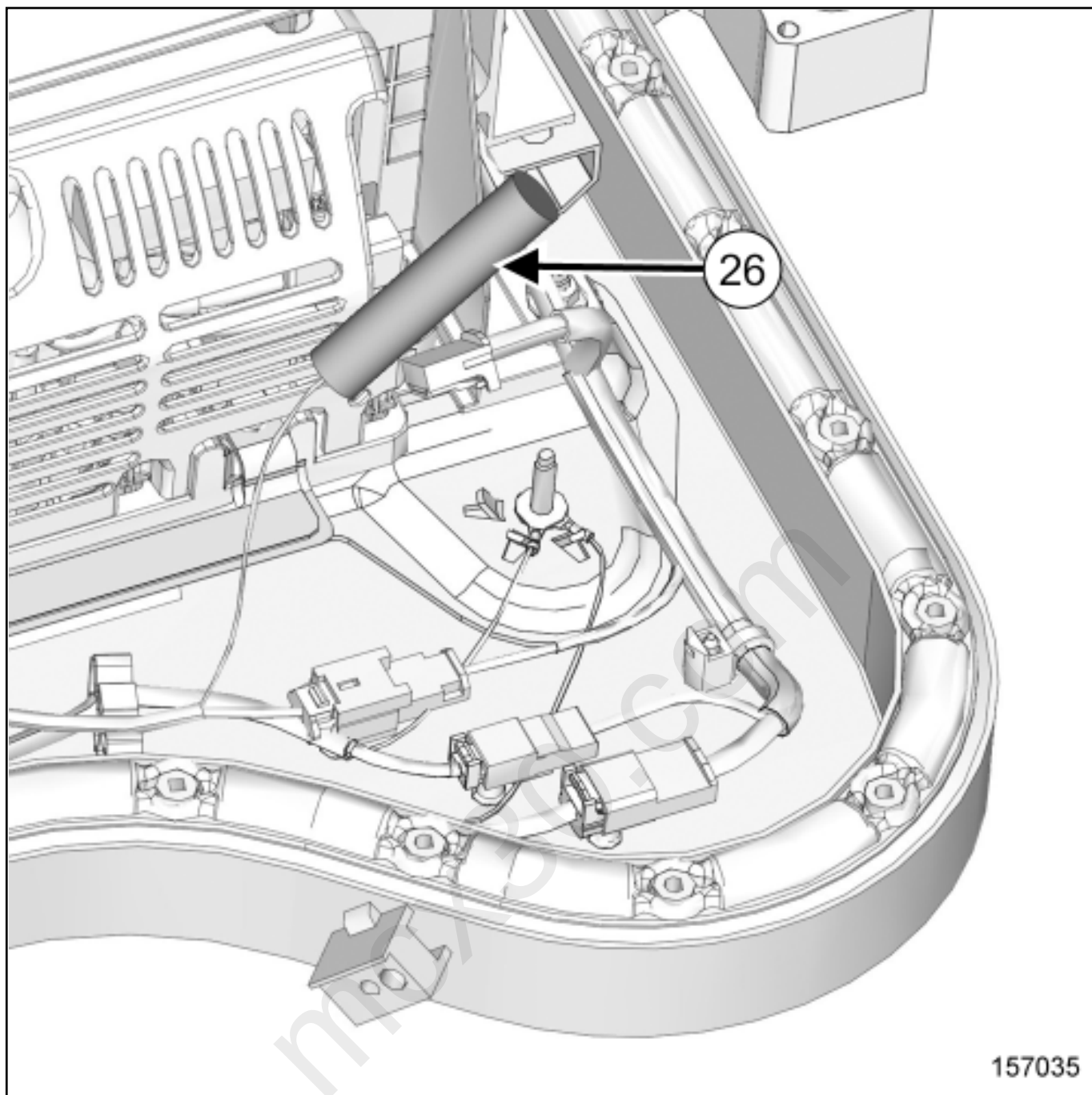
Refit the high voltage connector interlock electric earth lug(25) on the electric earth stud using the tool Set of trim removal levers.([Car. 1363](#)) .

Note:



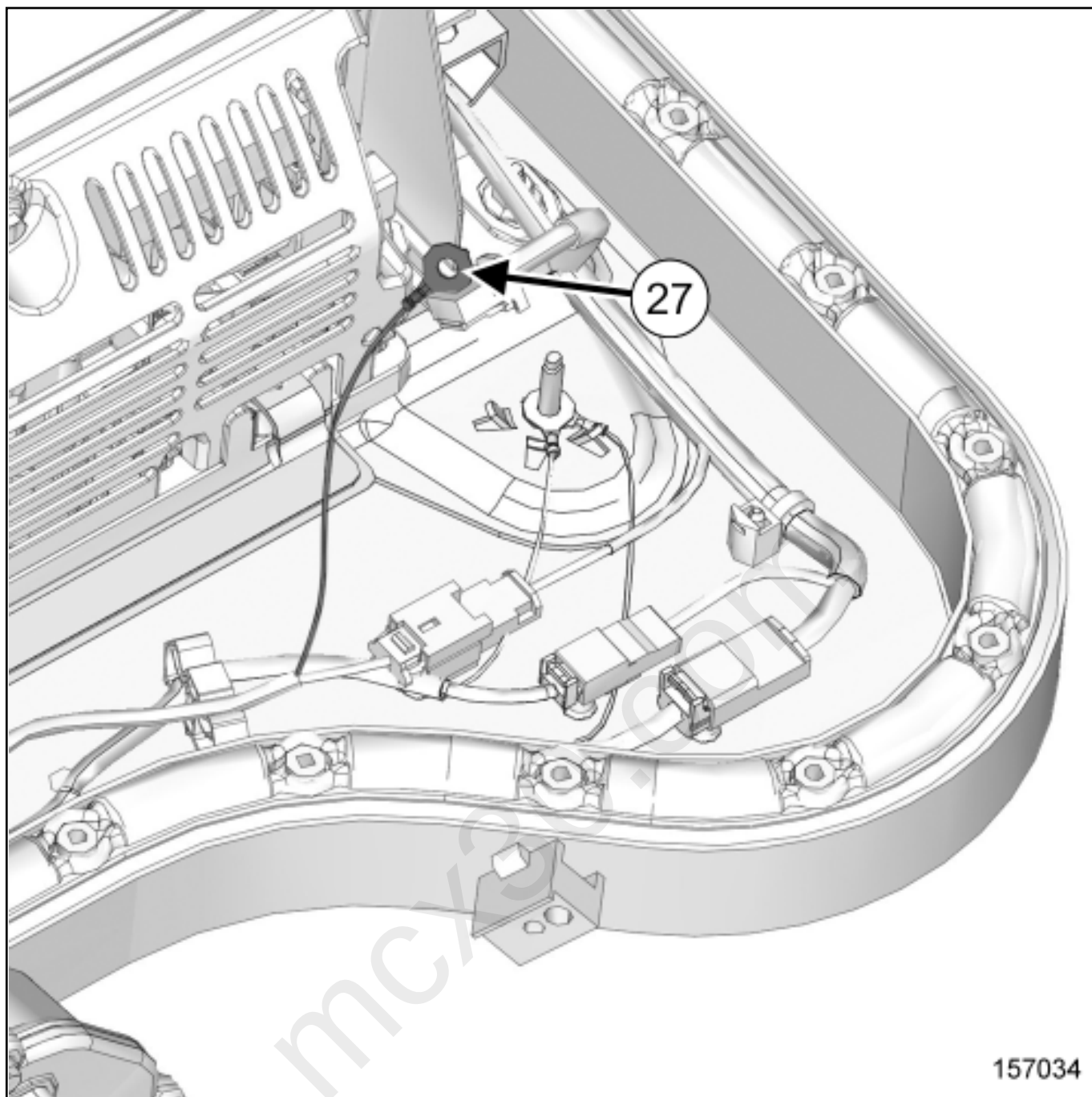
Pay attention to the mechanical coding.

Put the negative wiring on the bottom of the lower cover.



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Remove the insulation from the safety device switch socket interlock electric earth lug(26) .



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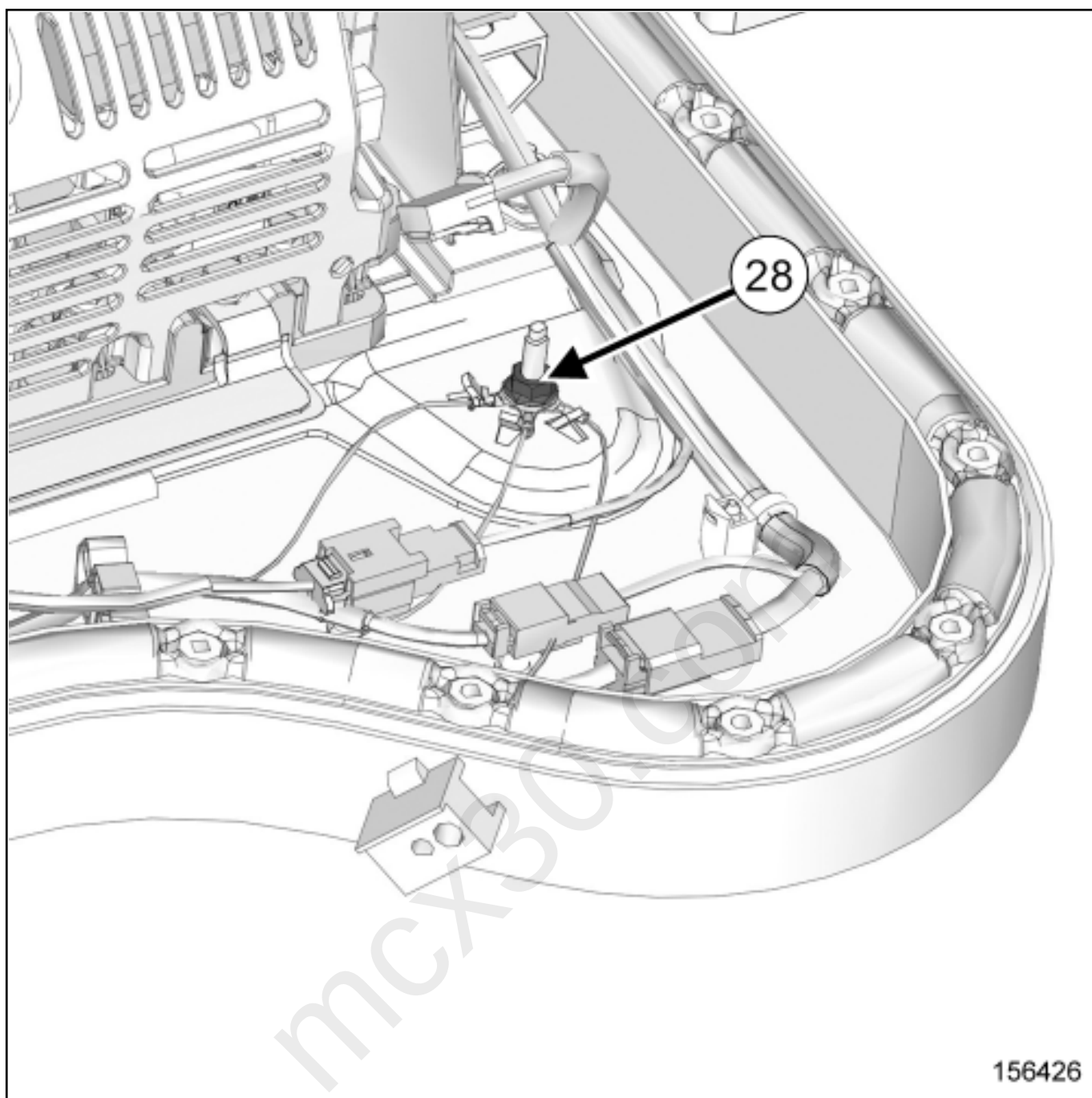
Refit the safety device switch socket interlock electric earth lug(27) on the electric earth stud using the toolSet of trim removal levers.(Car. 1363) .

Note:



Pay attention to the mechanical coding.

Put the negative wiring on the bottom of the lower cover.



Refit the earth electric connection nut(28) from the lower cover using an insulated magnetic socket [\(see 19E, Traction battery, Traction battery module stack assembly : Exploded view\)](#) .

Torque tighten the earth electric connection nut(28) from the lower cover using an insulated magnetic socket [\(see 19E, Traction battery, Traction battery module stack assembly : Exploded view\)](#) .

Mark always the nut with a PAINT MARKER of a color different from the original.

3. FINAL OPERATION



Proceed in the reverse order to removal.



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XSL version : 3.02 du 22/07/11

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