

TRACTION BATTERY LOWER COVER : 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.

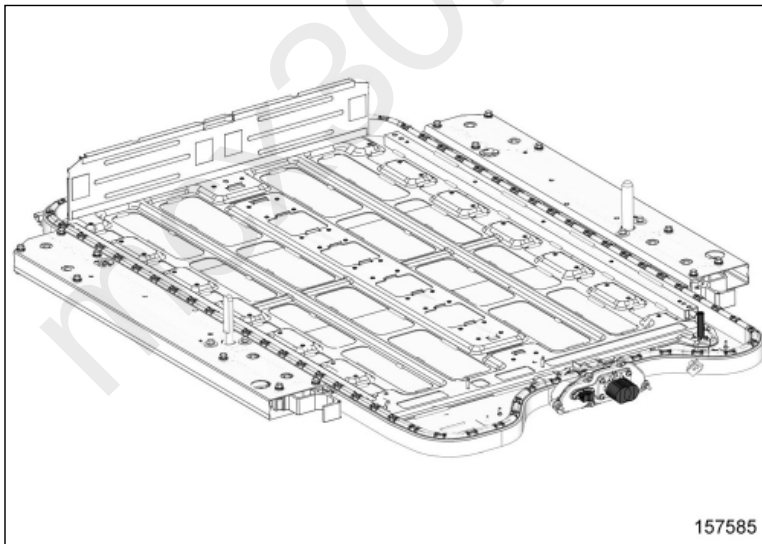
Risks of serious burns or electric shocks that may prove fatal.

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

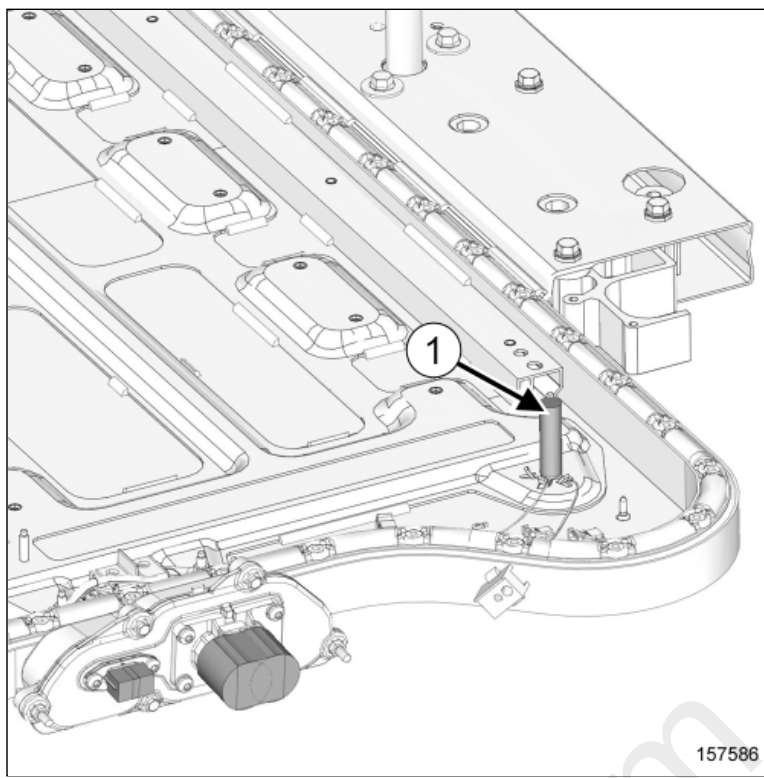
▣ Remove the traction battery upper cover[\(see 19E, Traction battery, Traction battery housing assembly : Exploded view\)](#) .



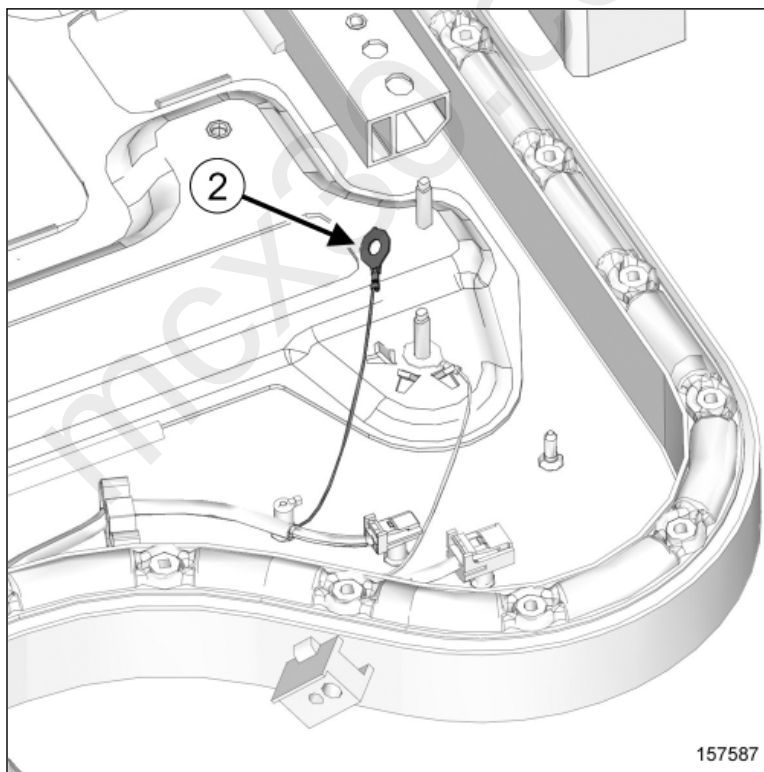
▣ Removal [\(see 19E, Traction battery, Traction battery module stack assembly : Exploded view\)](#) :

- the traction battery electronic filter,
- the traction battery internal low voltage wiring,
- the traction battery computer,
- the traction battery internal junction box,
- the traction battery safety device switch socket,
- the traction battery module.

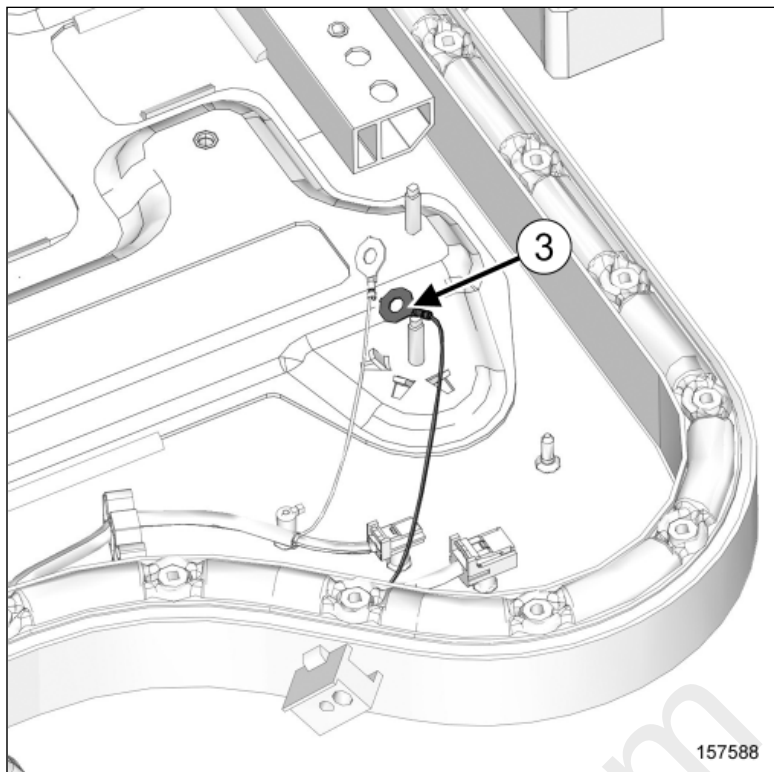
2. REMOVAL OPERATION



- Remove the insulation(1) from the electric earth stud.

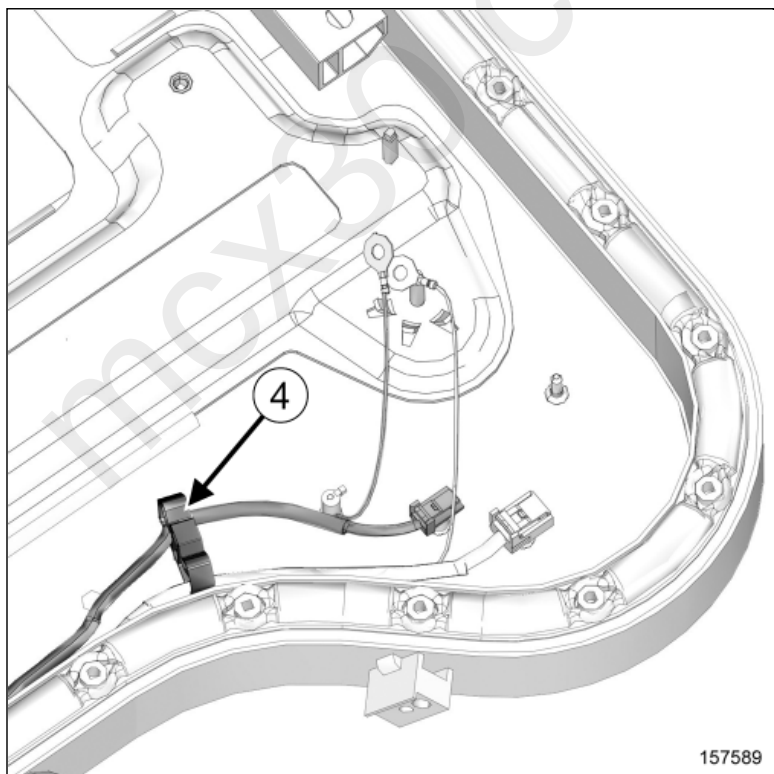


- Remove the interlock wiring lug(2) of the high voltage connector using the toolSet of trim removal levers.(Car. 1363) .



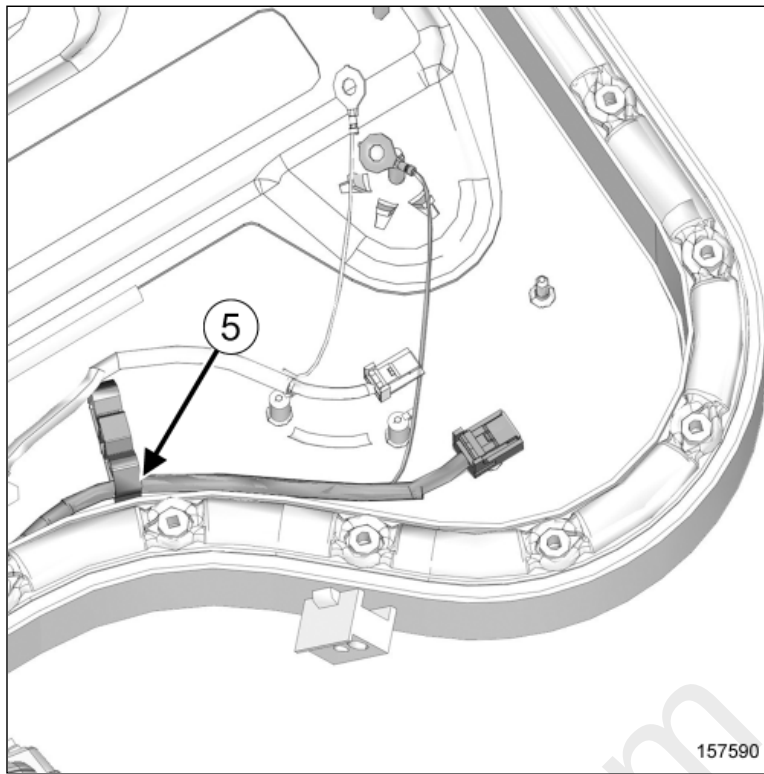
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■ Remove the lug of the low voltage connector(3) using the toolSet of trim removal levers.(Car. 1363)



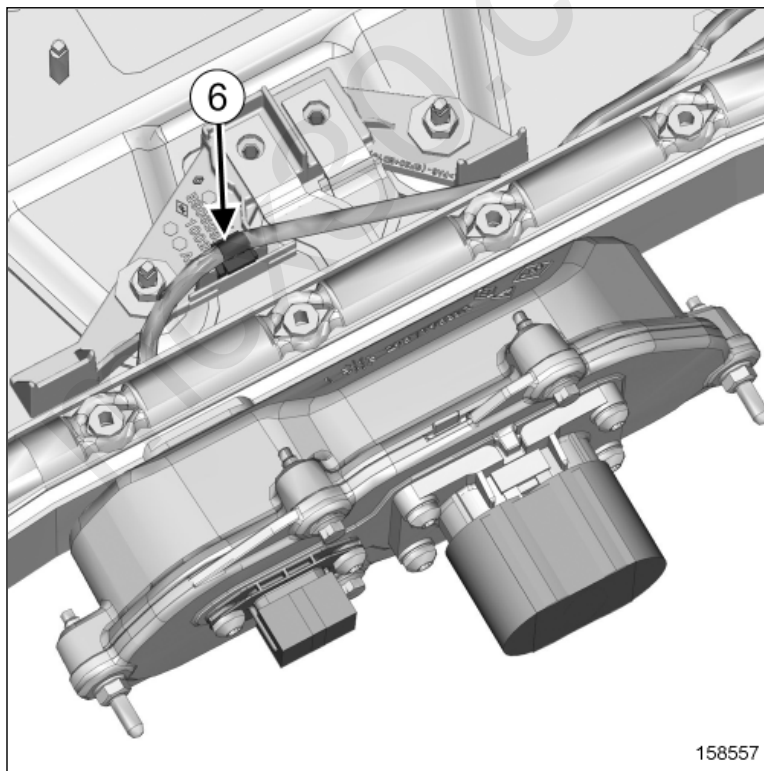
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■ Unclip the high voltage connector interlock wire from the twin clip(4) using the toolSet of trim removal levers.(Car. 1363) .



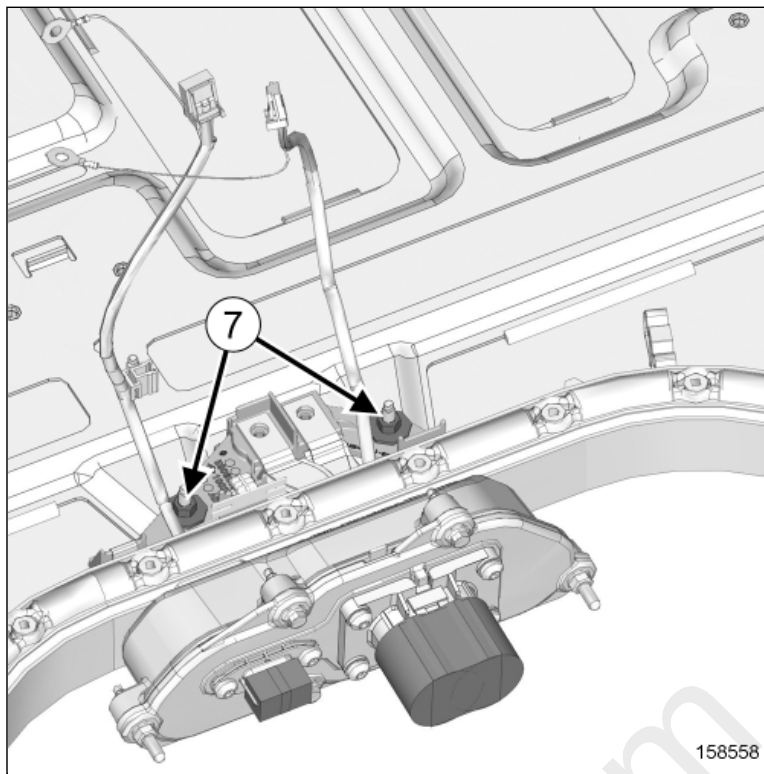
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- Unclip the low voltage connector wiring from the twin clip(s) using the toolSet of trim removal levers.(Car. 1363) .



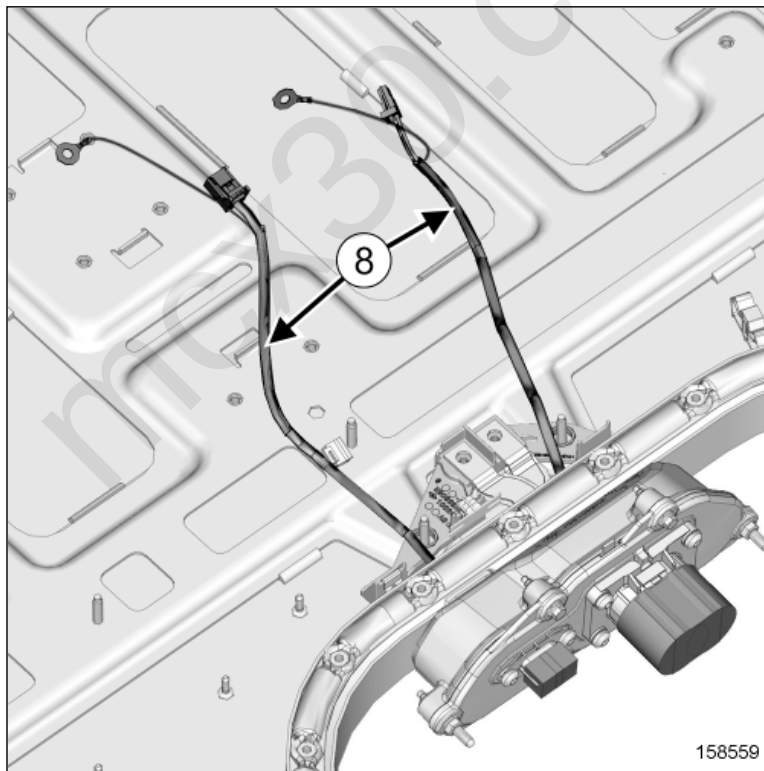
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- Unclip the clamp on the low voltage connector wiring(6) using the toolSet of trim removal levers.(Car. 1363) .



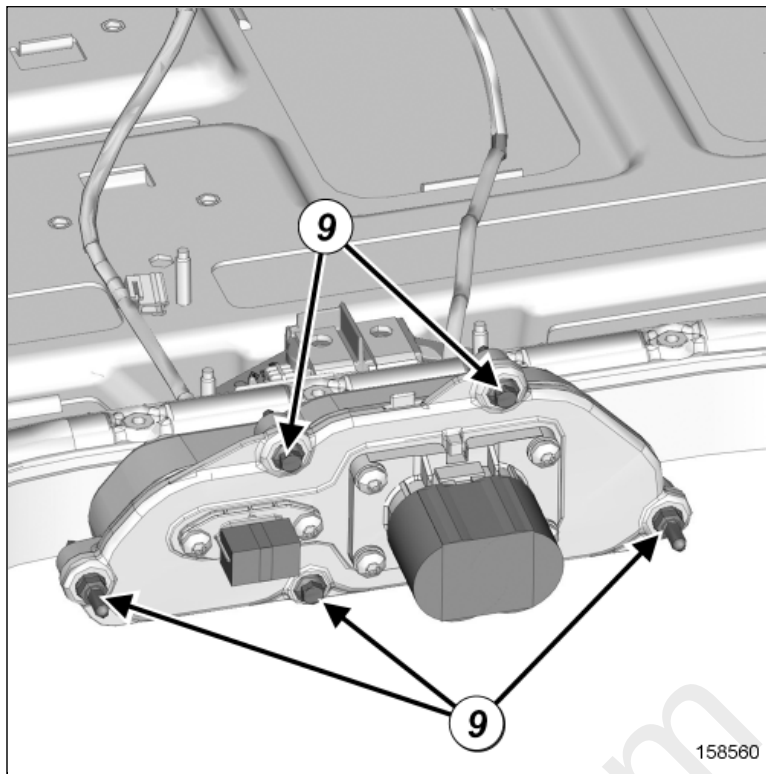
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- Remove the insulated support nuts(7) using an insulated magnetic socket([see 19E, Traction battery, Traction battery module stack assembly : Exploded view](#)) .

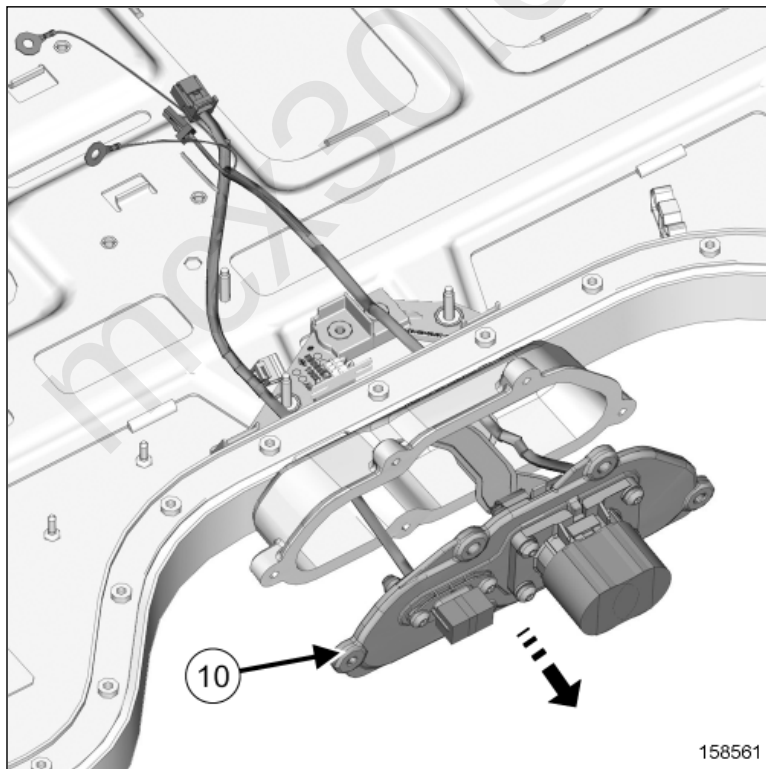


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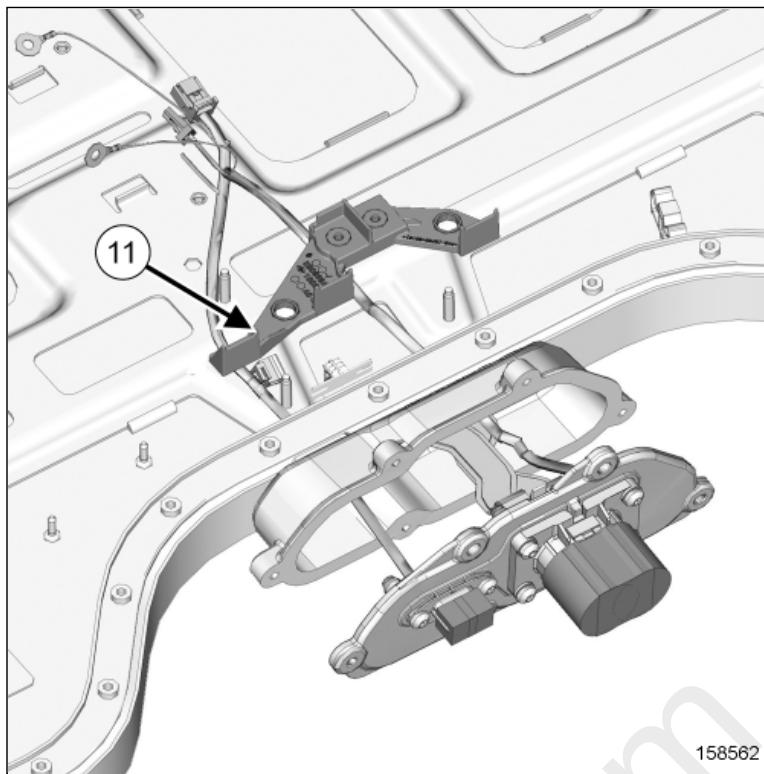
- Align the wirings in the axis(8) .



Remove the connectors support plate screws(9) using an insulated magnetic socket([see 19E, Traction battery, Traction battery module stack assembly : Exploded view](#)) .



Remove the connectors support plate assembly(10) ([see 19E, Traction battery, Traction battery module stack assembly : Exploded view](#)) .



Remove :



the insulated support(11) ,

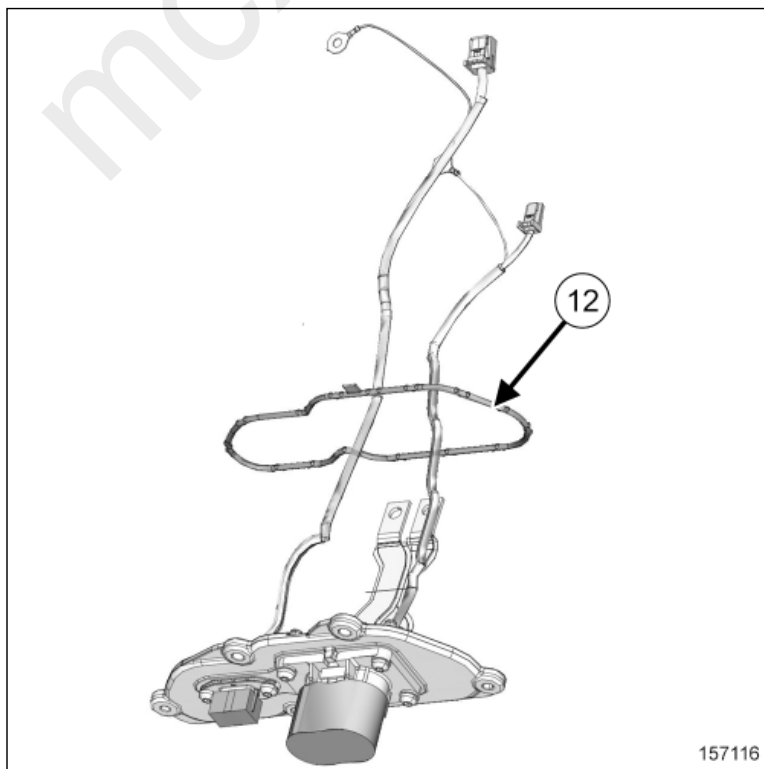


the connectors support plate assembly([see 19E, Traction battery, Traction battery module stack assembly : Exploded view](#)) .

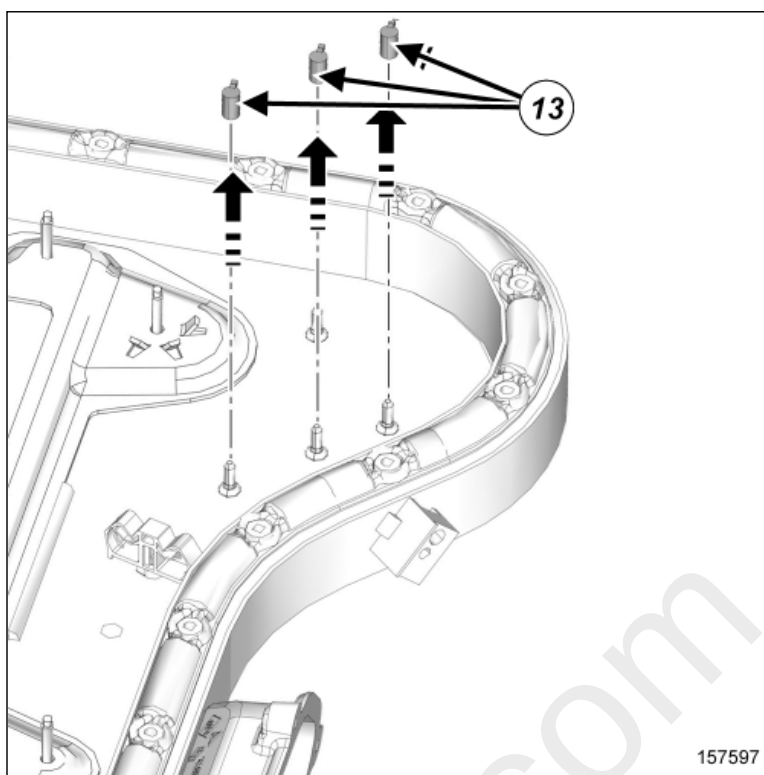


Note:

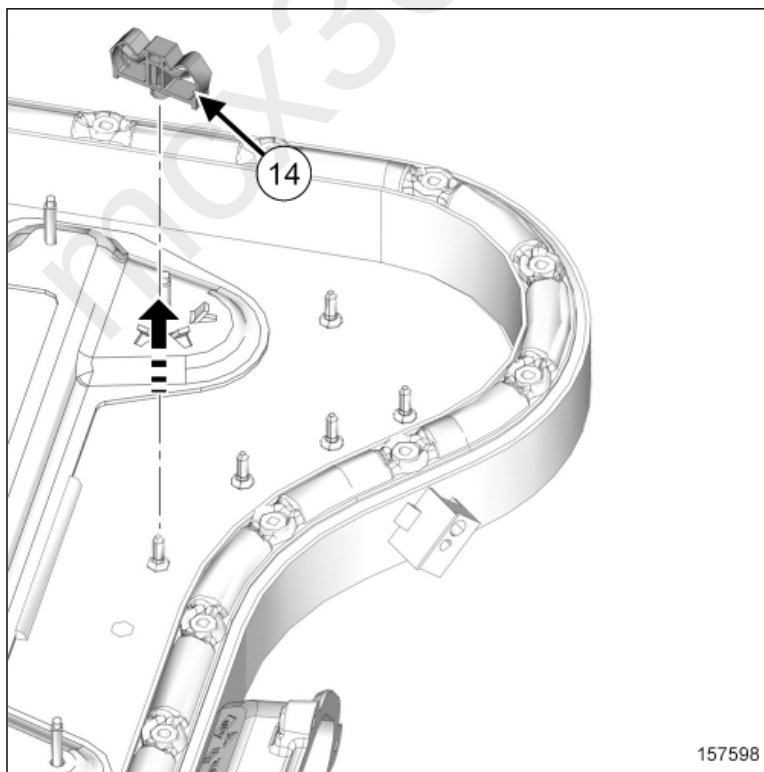
Fit the connectors support plate on a clean area.



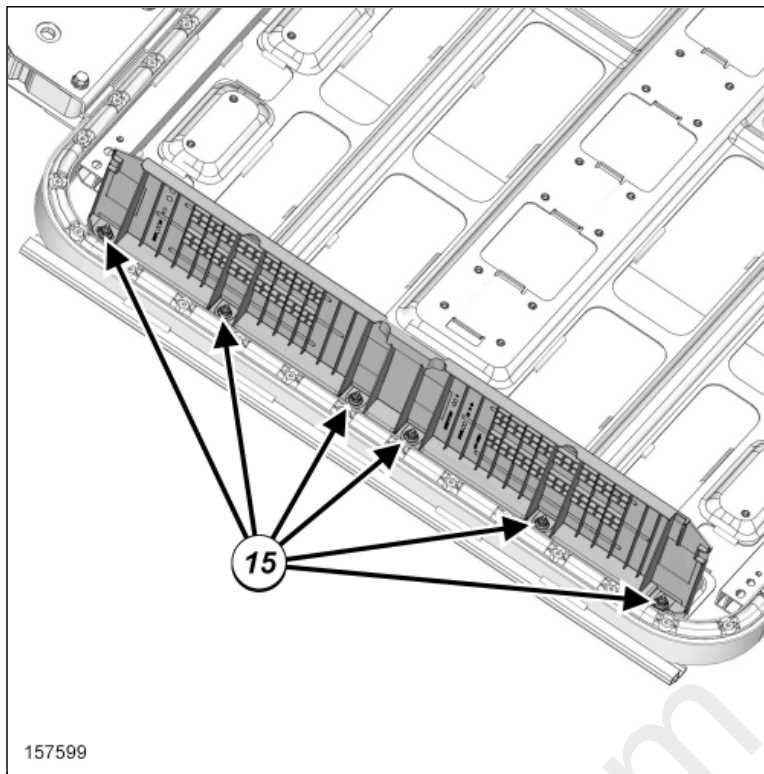
Remove the seal(12) between connectors support plate and connectors support(see 19E, Traction battery, Traction battery module stack assembly : Exploded view) .



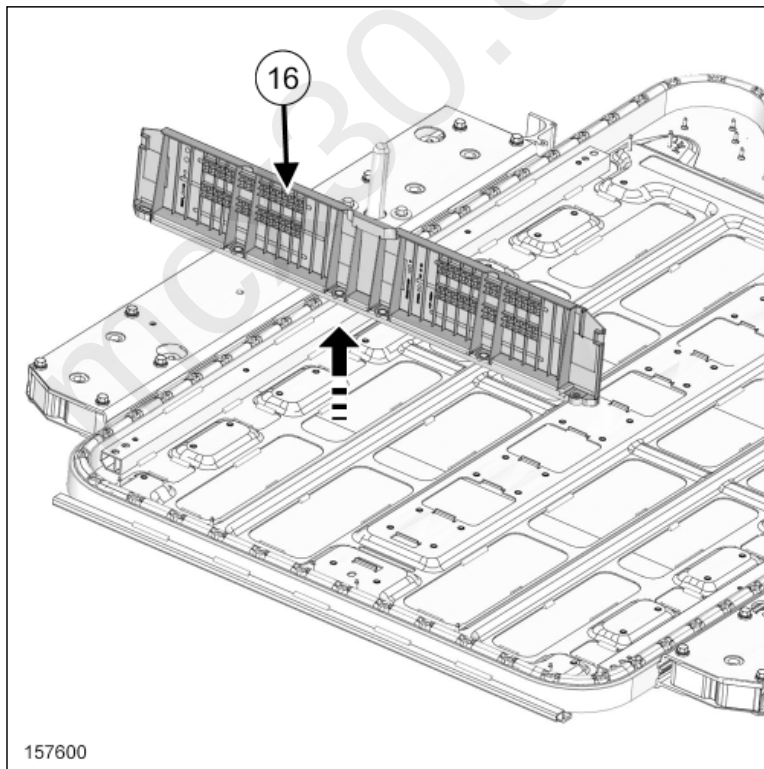
Remove the clips(13) .



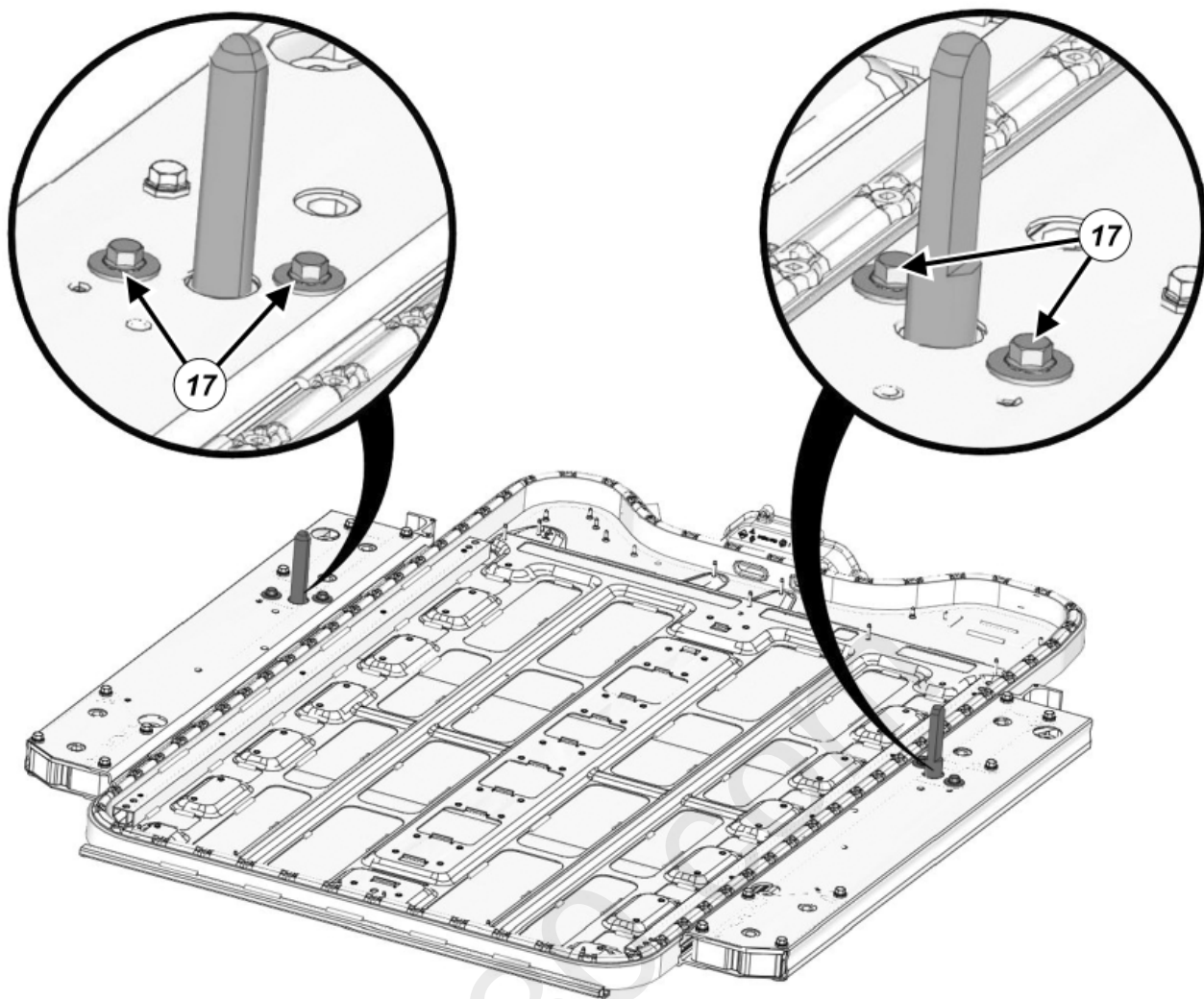
Remove the twin clip(14) .



Remove the rear end plate nuts(15) .

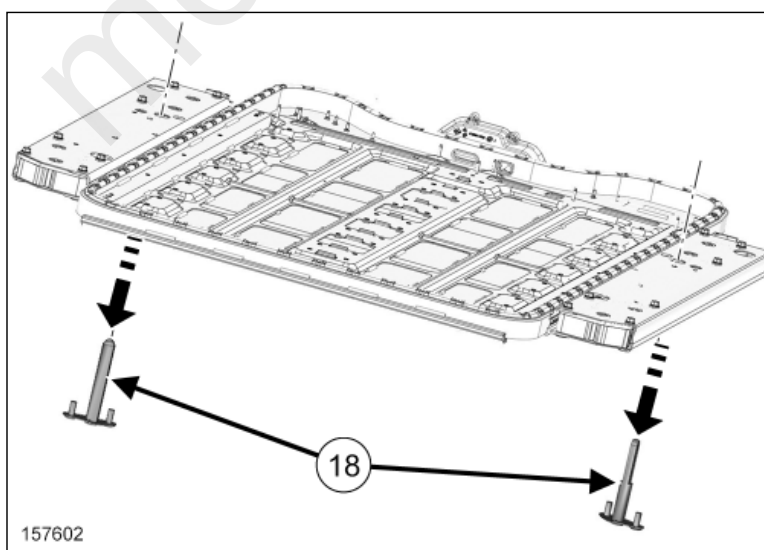


Remove the rear end plate(16) .



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Remove the retainings shock screws(17) .



Remove the retainings shock(18) .

1. REFITTING PREPARATION OPERATION

Parts always to be replaced :

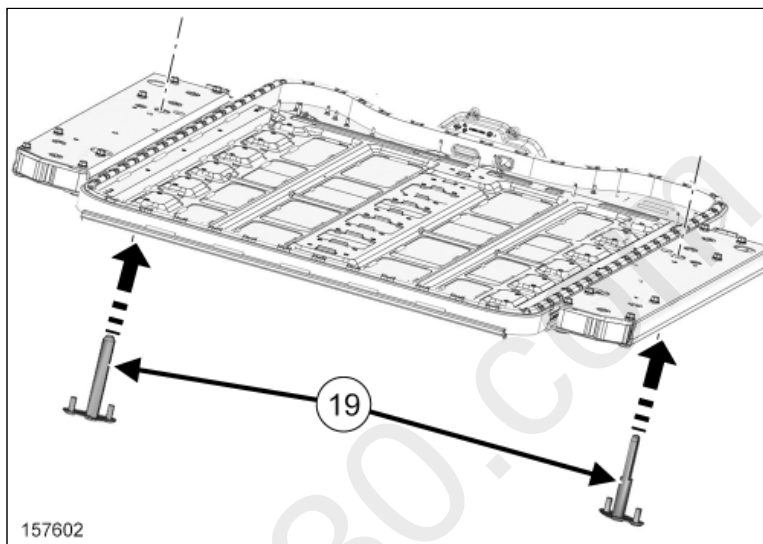
the seal between connectors support plate and connectors support(see 19E, [Traction battery, Traction battery module stack assembly : Exploded view](#)).



Note:

Check the state of the bus bar, the power wires (no black marks, no corrosion, no trace of electrolusis, no tapping damages, no deformation of the contacts, no sign of breakage, or cracking on the plastic endings).

2. REFITTING OPERATION

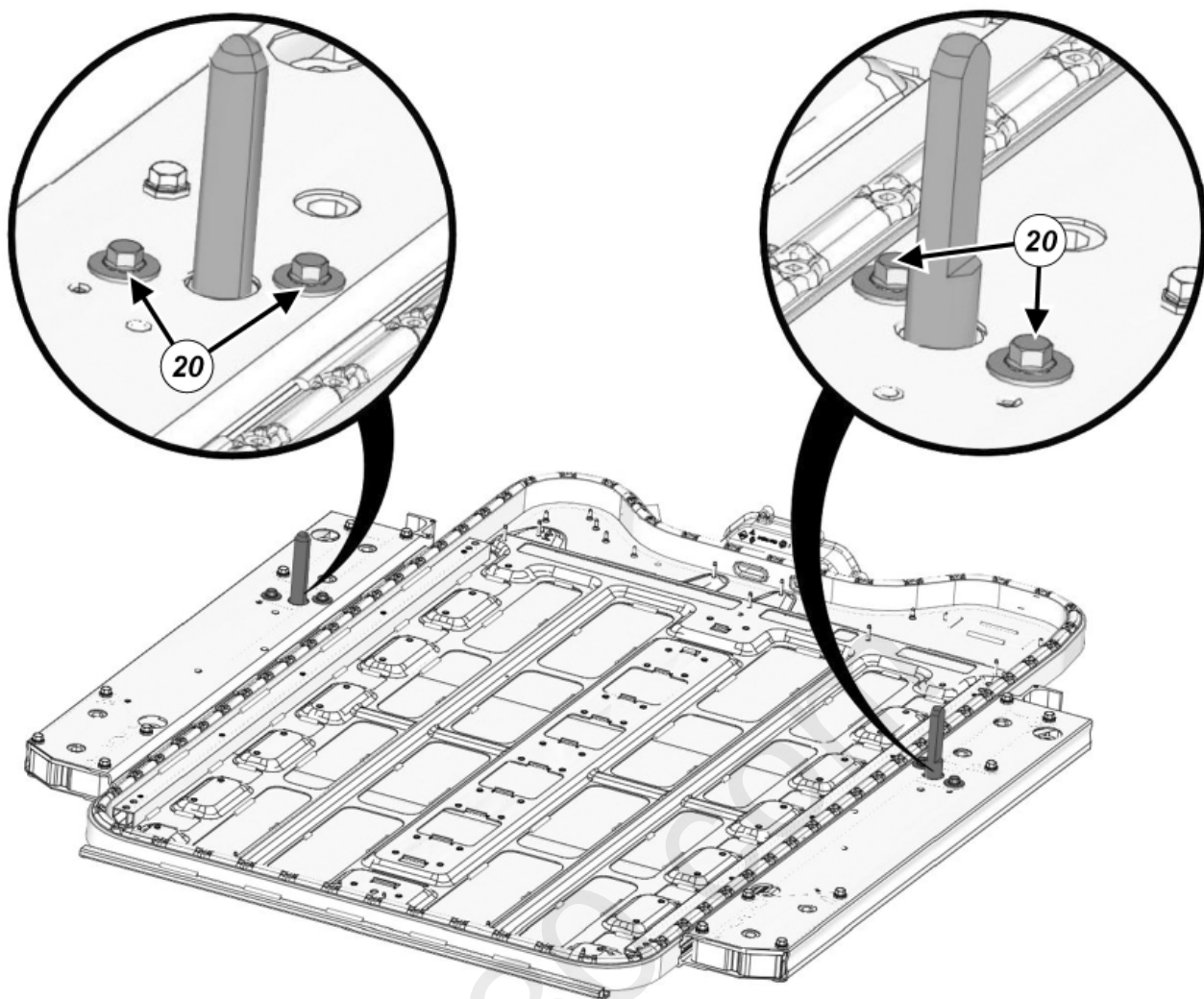


Refit the retainers shock(19).



Note:

Pay attention to the mechanical coding.

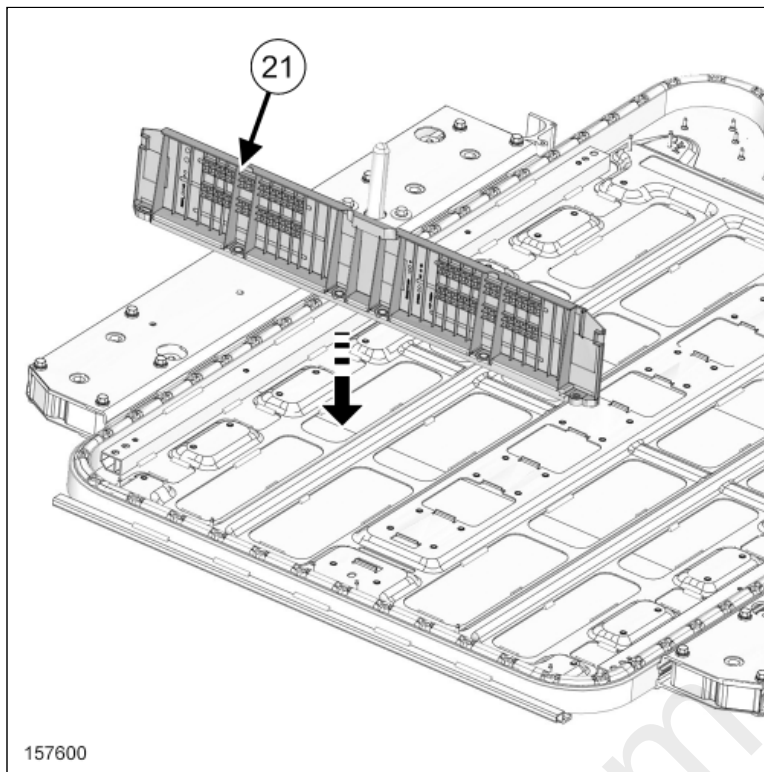


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Refit the retainings shock screws(20) ([see 19E, Traction battery, Traction battery module stack assembly : Exploded view](#)) .

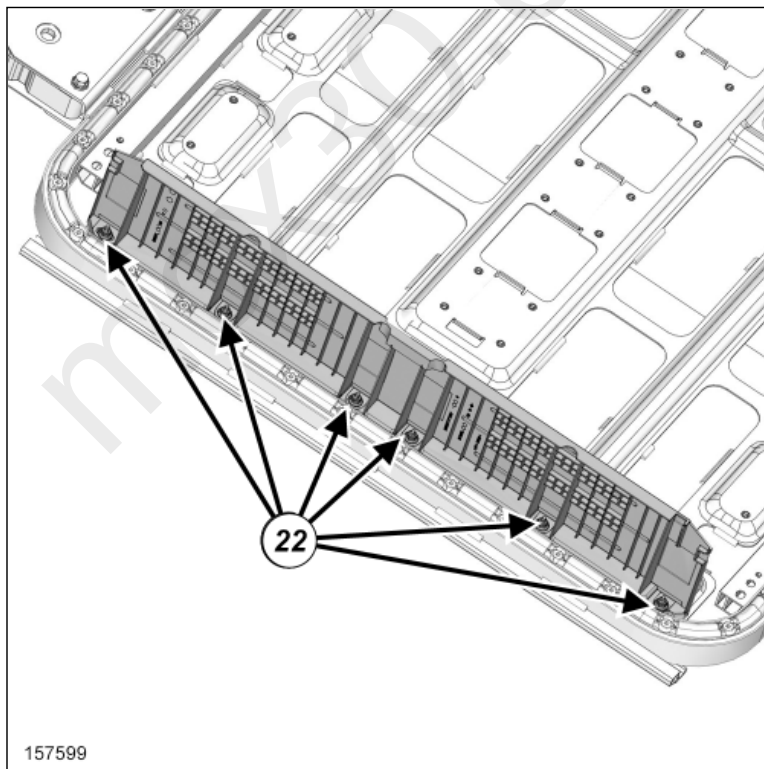
Torque tighten the retainings shock screws([see 19E, Traction battery, Traction battery module stack assembly : Exploded view](#)) .

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



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Refit the rear end plate(21) .



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Refit the rear end plate nuts(22) ([see 19E, Traction battery, Traction battery module stack assembly : Exploded view](#)) .

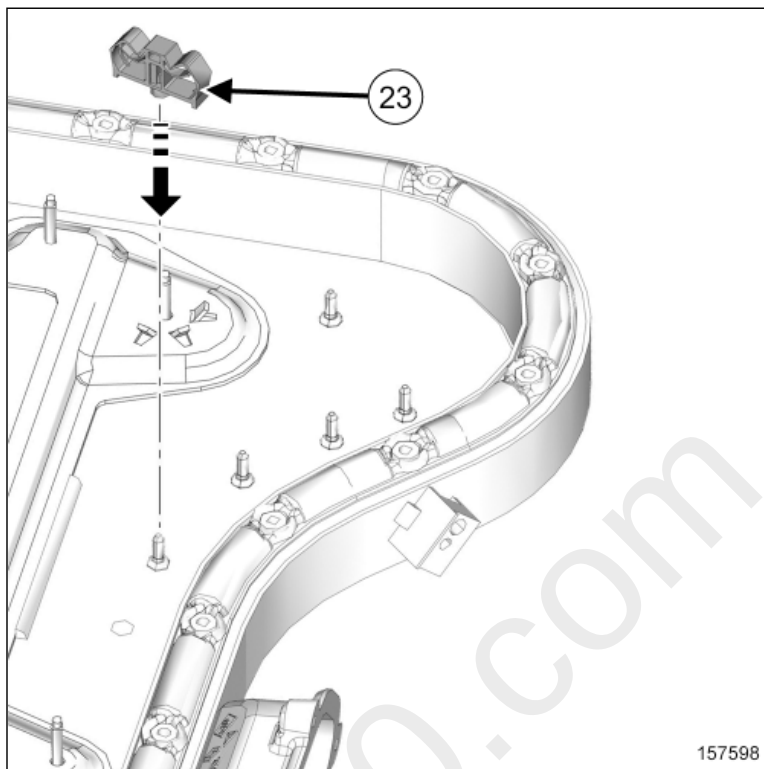
Torque tighten the rear end plate nuts([see 19E, Traction battery, Traction battery module stack assembly : Exploded view](#)) .



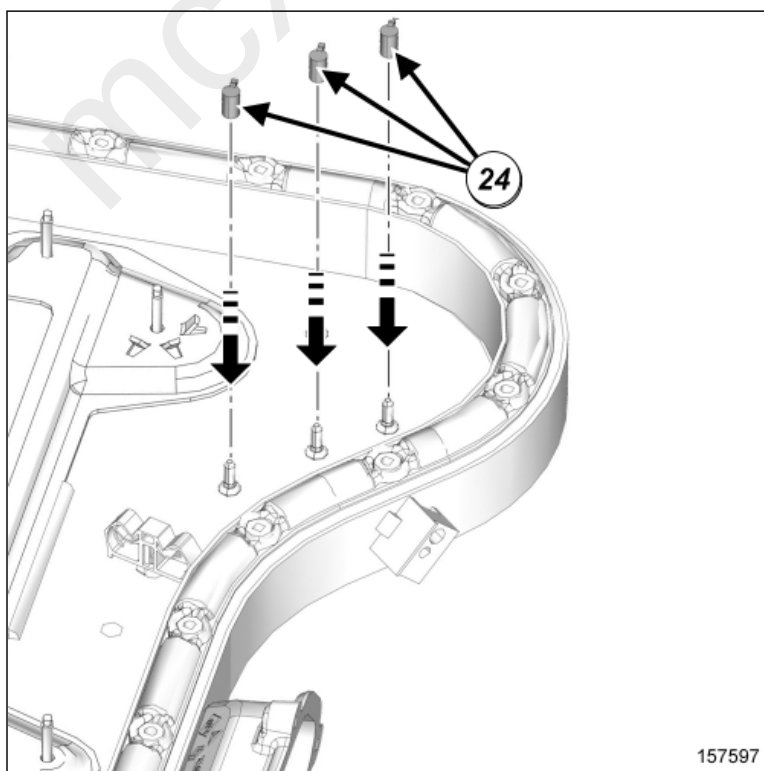
Note:

Start with the right screws (round hole) and the left screw (slot hole) and then the other 3.

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

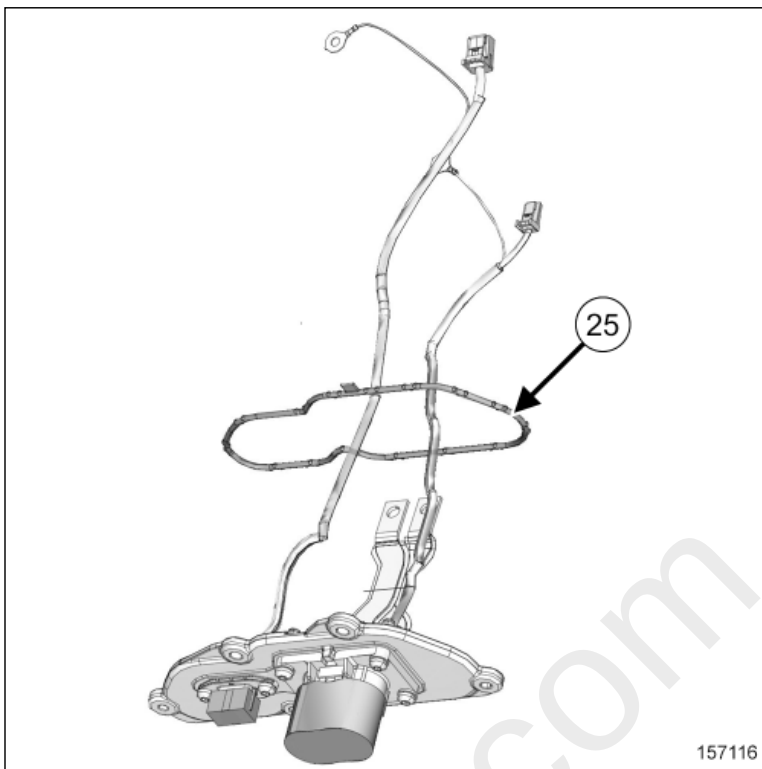


Refit the twin clip(23).



Refit the clip(24) .

Clean the surfaces around the seal groove on the connectors support plate using the BRAKE CLEANERand LINT-FREE CLOTH(see Vehicle: Parts and consumables for the repair) .



Refit :



the seal(25) between connectors support plate and connectors support(see 19E, [Traction battery, Traction battery module stack assembly : Exploded view](#)) ,

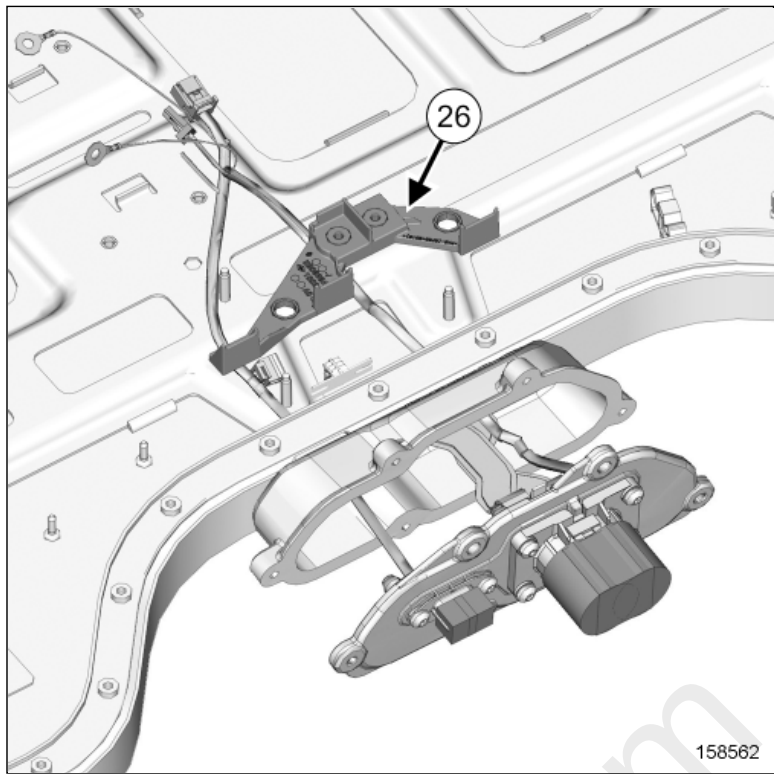


the connectors support plate assembly.

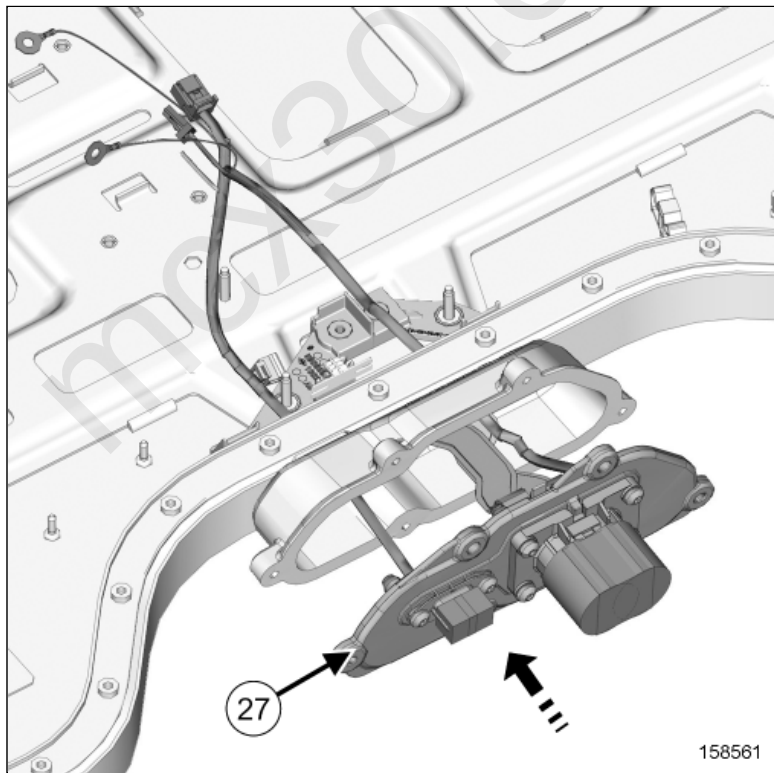


Note:

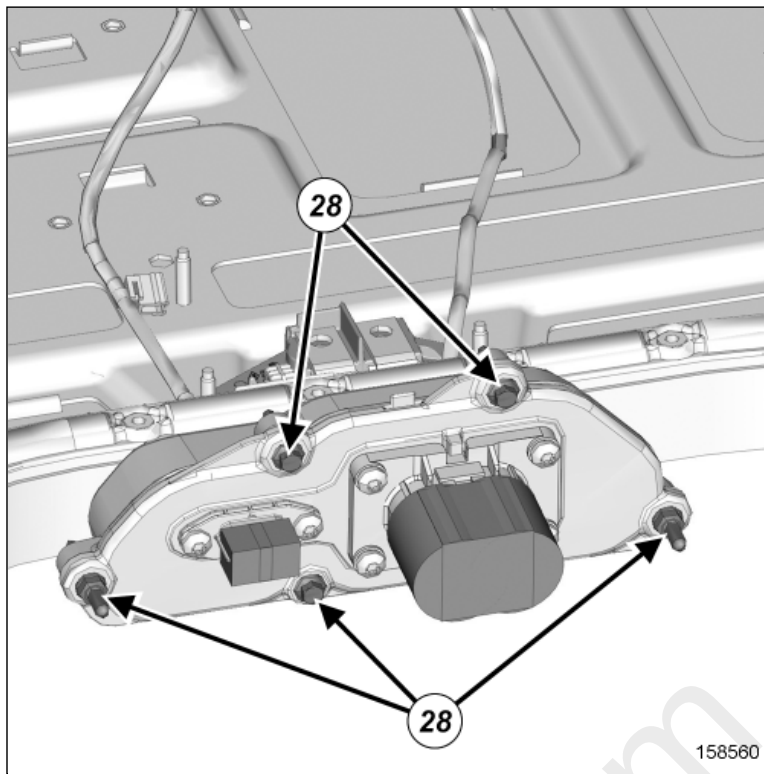
high voltage connector interlock wiring must be placed in the middle of the coupled bus bar.



Refit the insulated support(26) .



Refit the connectors support plate assembly(27) .



Refit the connectors support plate screws(28) using an insulated magnetic socket([see 19E, Traction battery, Traction battery module stack assembly : Exploded view](#)) .

Torque tighten the connectors support plate screws using an insulated magnetic socket([see 19E, Traction battery, Traction battery module stack assembly : Exploded view](#)) .

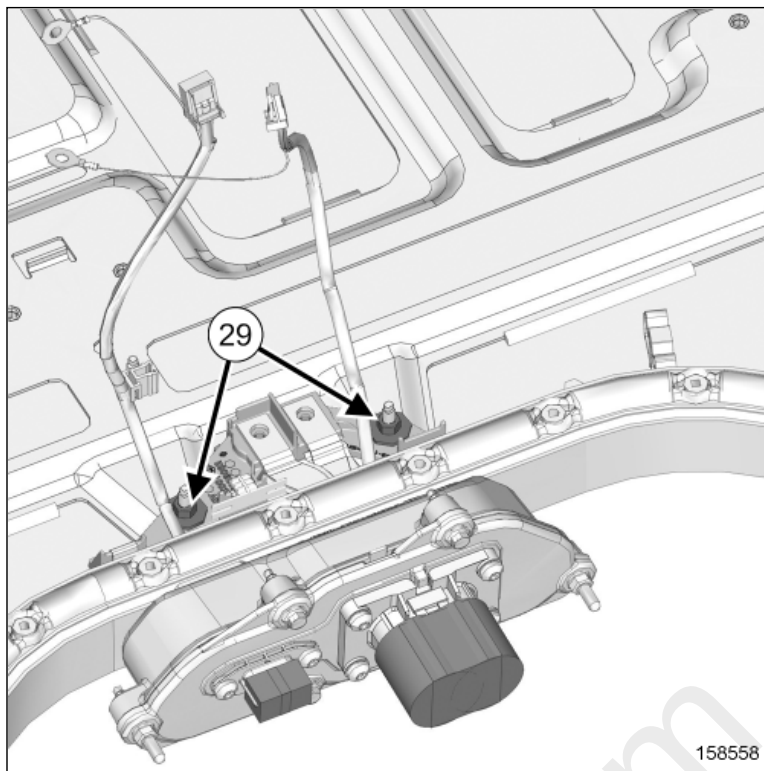
Note:



Start with the lateral screw (round hole) and lateral screw (slot hole) and then the other 3.

Tighten the screws in a criss-cross pattern.

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



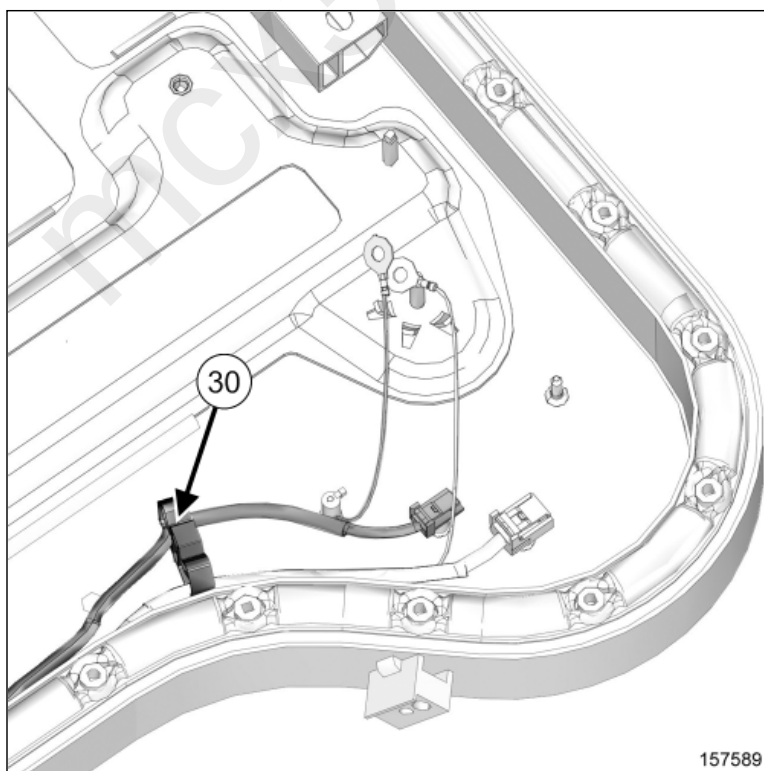
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Refit the insulated support screws(29) ([see 19E, Traction battery, Traction battery module stack assembly : Exploded view](#)) .



Note:

Get the hight voltage interlock connector wiring to the bottom of the lower cover.



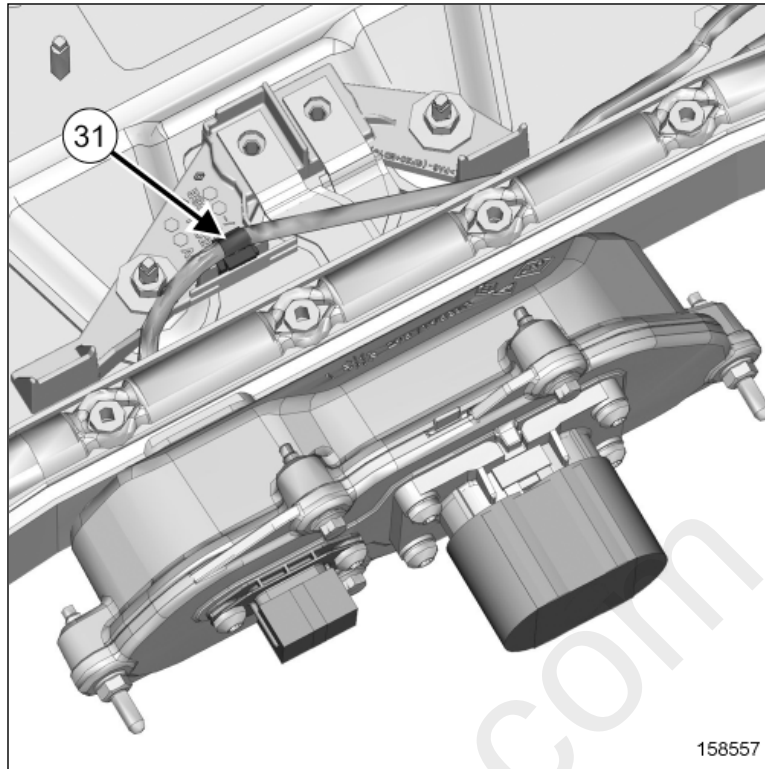
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Clip The interlock high voltage connector wiring on the twin clip(30) .

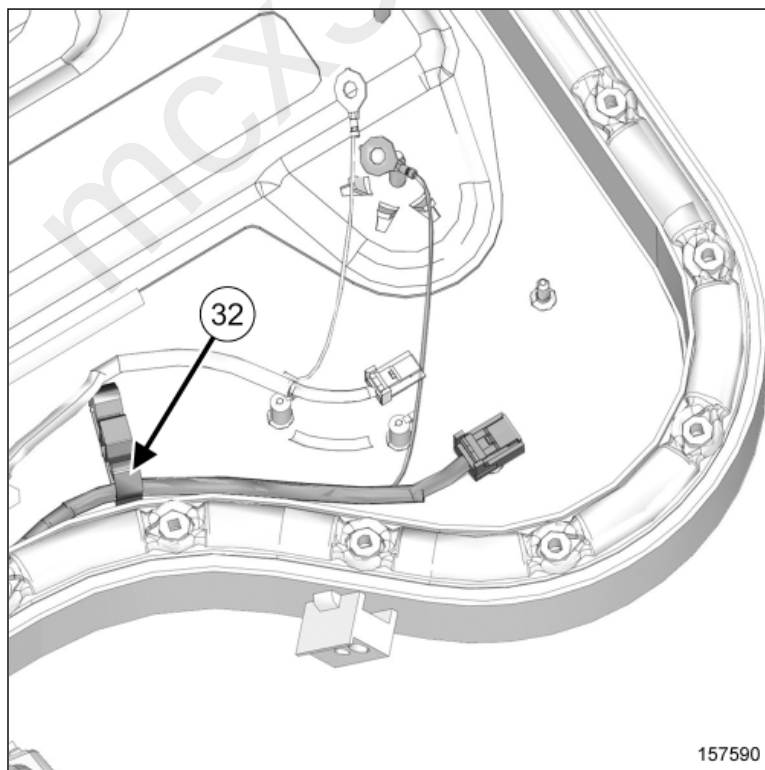


Note:

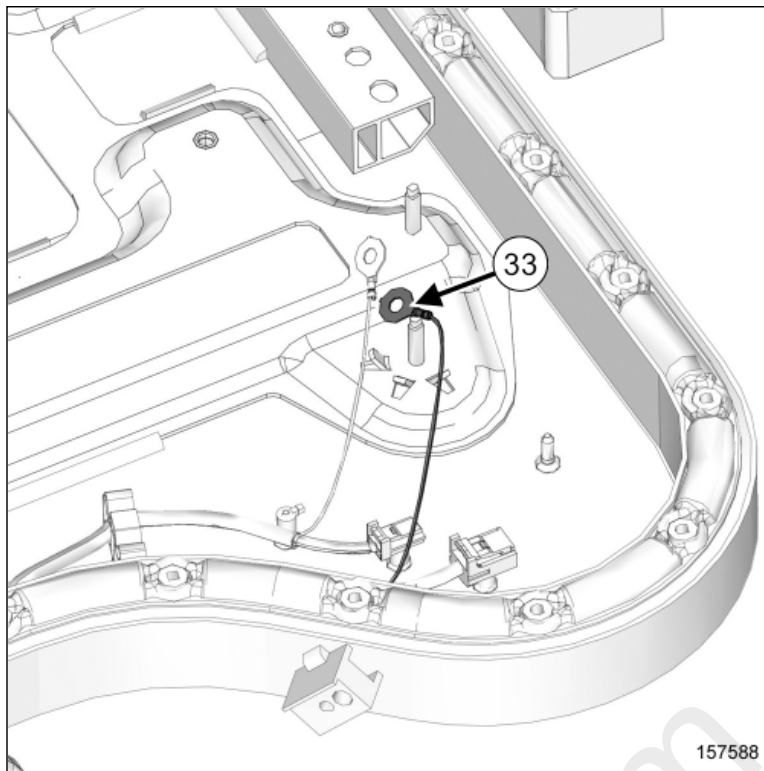
Get the lower voltage connector wiring to the bottom of the lower cover.



Clip the low voltage connector clip(31) on the insulated support.

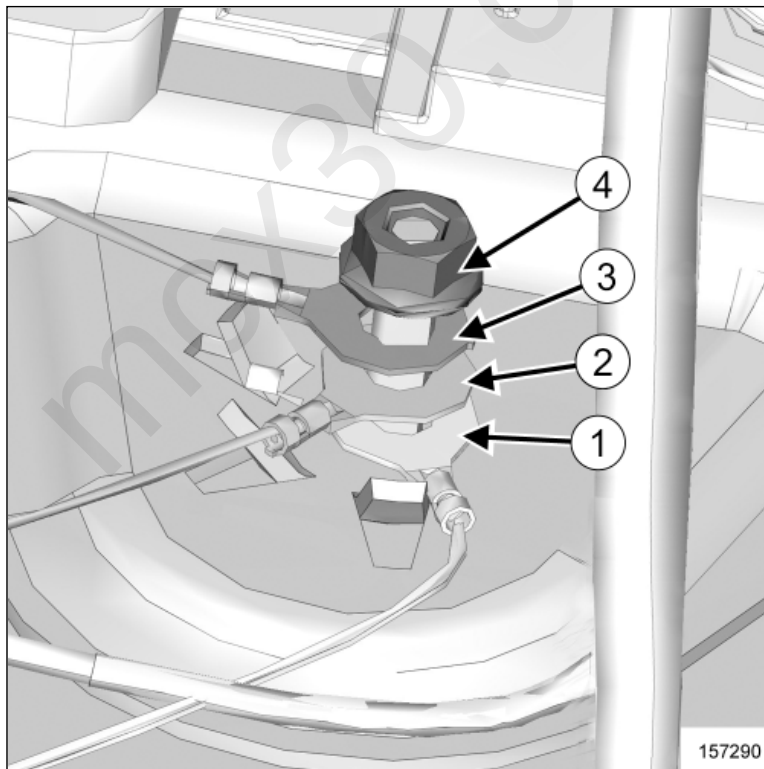


Clip the low voltage connector wiring on the twin clip(32) .



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Refit the low voltage connector electric earth lug(33) on the electric earth stud using the toolSet of trim removal levers.(Car. 1363) .



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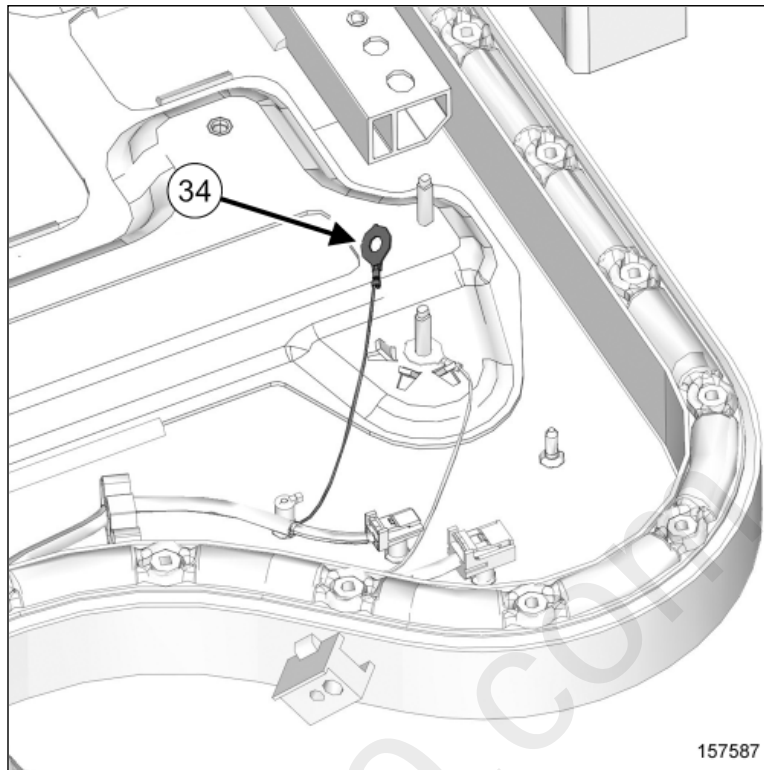
- (1) low voltage connector electric earth lug
- (2) high voltage connector interlock electric earth lug
- (3) safety device switch socket interlock electric earth lug
- (4) nut

Note:



Pay attention to the mechanical coding.

Get the negative wiring to the bottom of the lower cover.



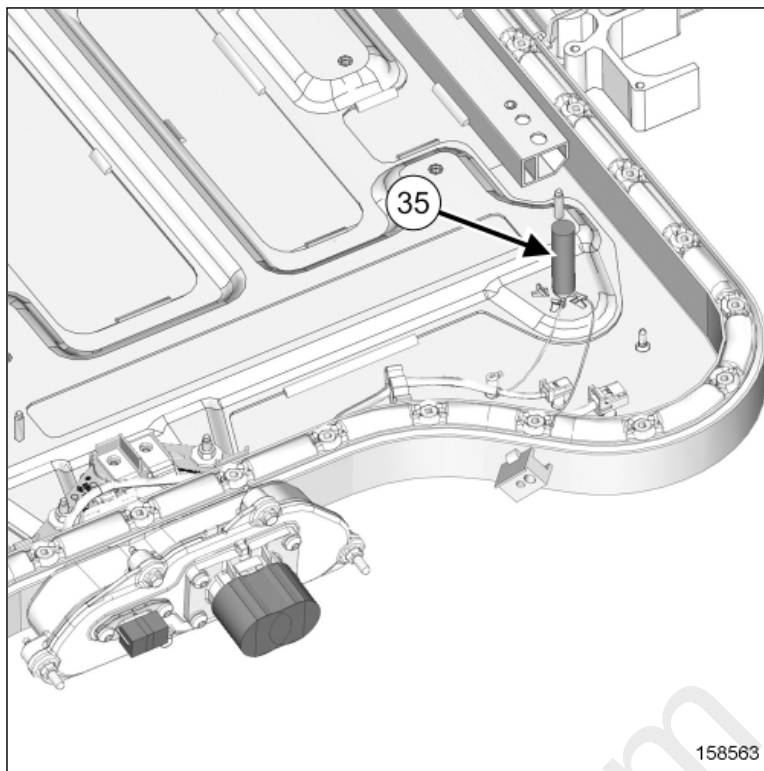
Refit the high voltage connector interlock electric earth lug(34) on the electric earth stud using the toolSet of trim removal levers.(Car. 1363).

Note:



Pay attention to the mechanical coding.

Get the negative wiring to the bottom of the lower cover.



Insulate the electric earth stud(35) .

3. FINAL OPERATION

Proceed in the reverse order to removal.



[Repair-14x02x01x86-01x37-1-4-1.xml](#)

