

TRACTION BATTERY INTERNAL LOW VOLTAGE WIRING : 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.

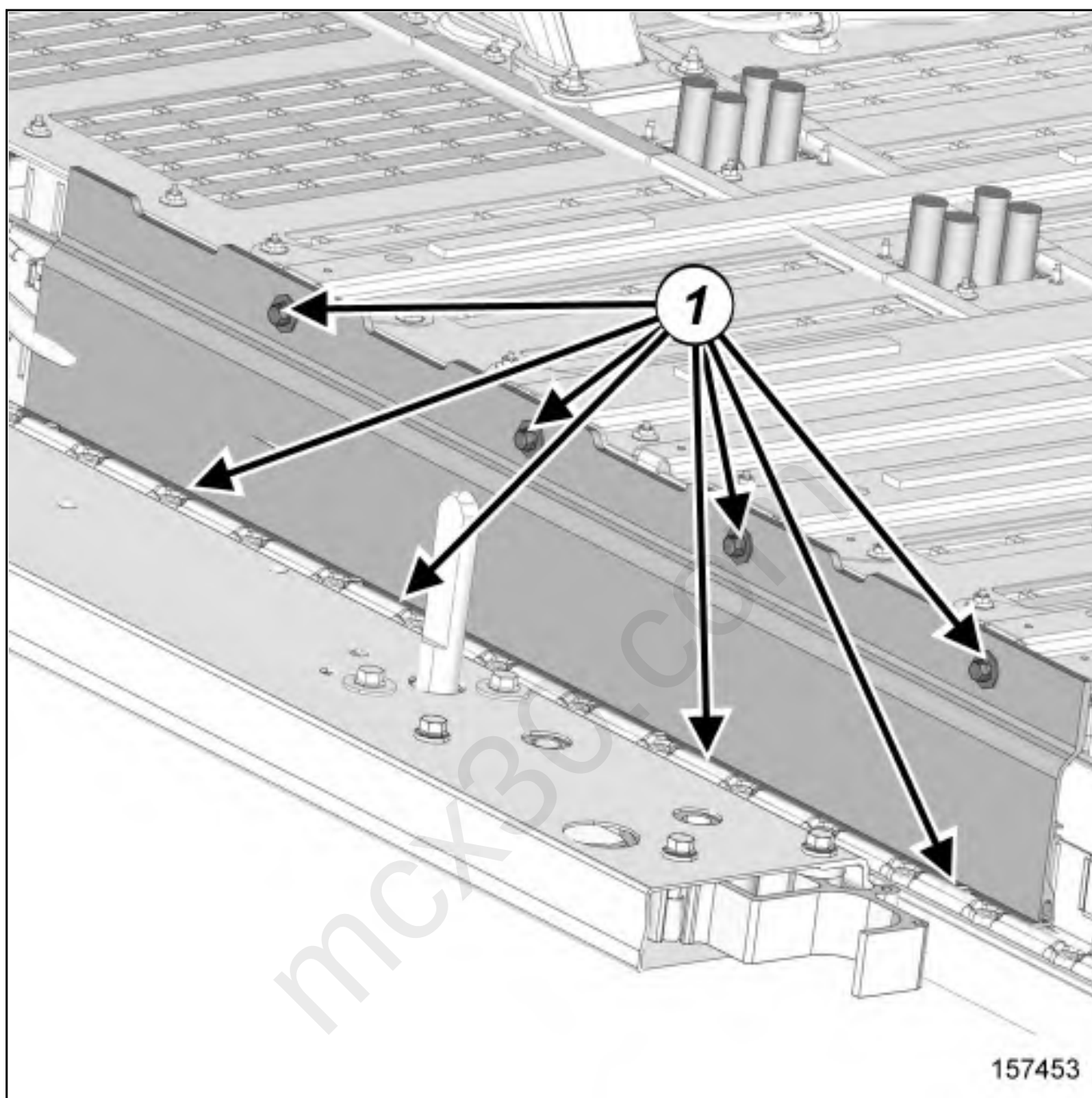
Before carrying out any work on the vehicle, it is essential that you follow the instructions regarding vehicle lockout. This work must be carried out by an employee who is qualified and authorised to work on a high-voltage onboard network.

REMOVAL

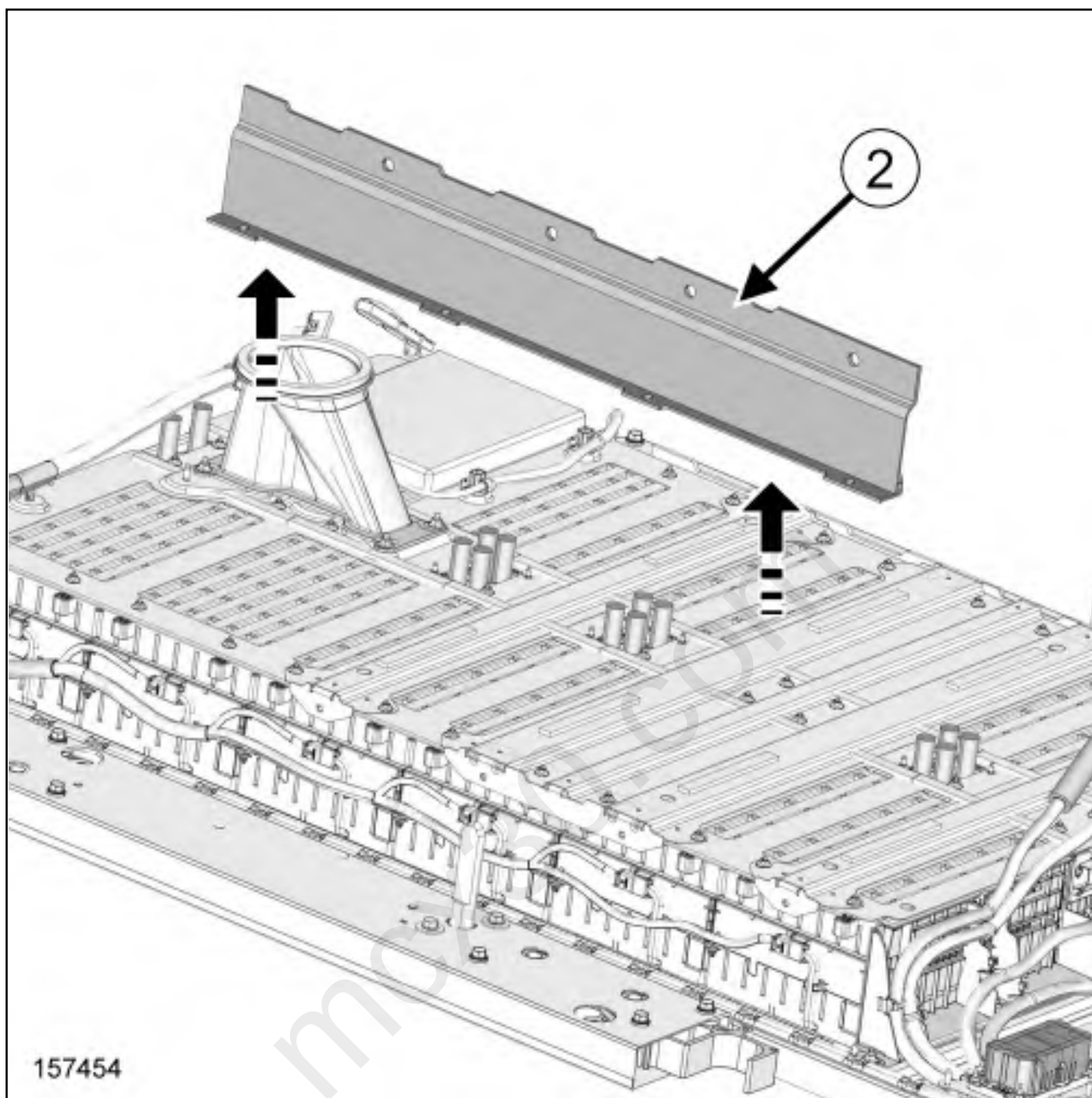
1. REMOVAL PREPARATION OPERATION

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

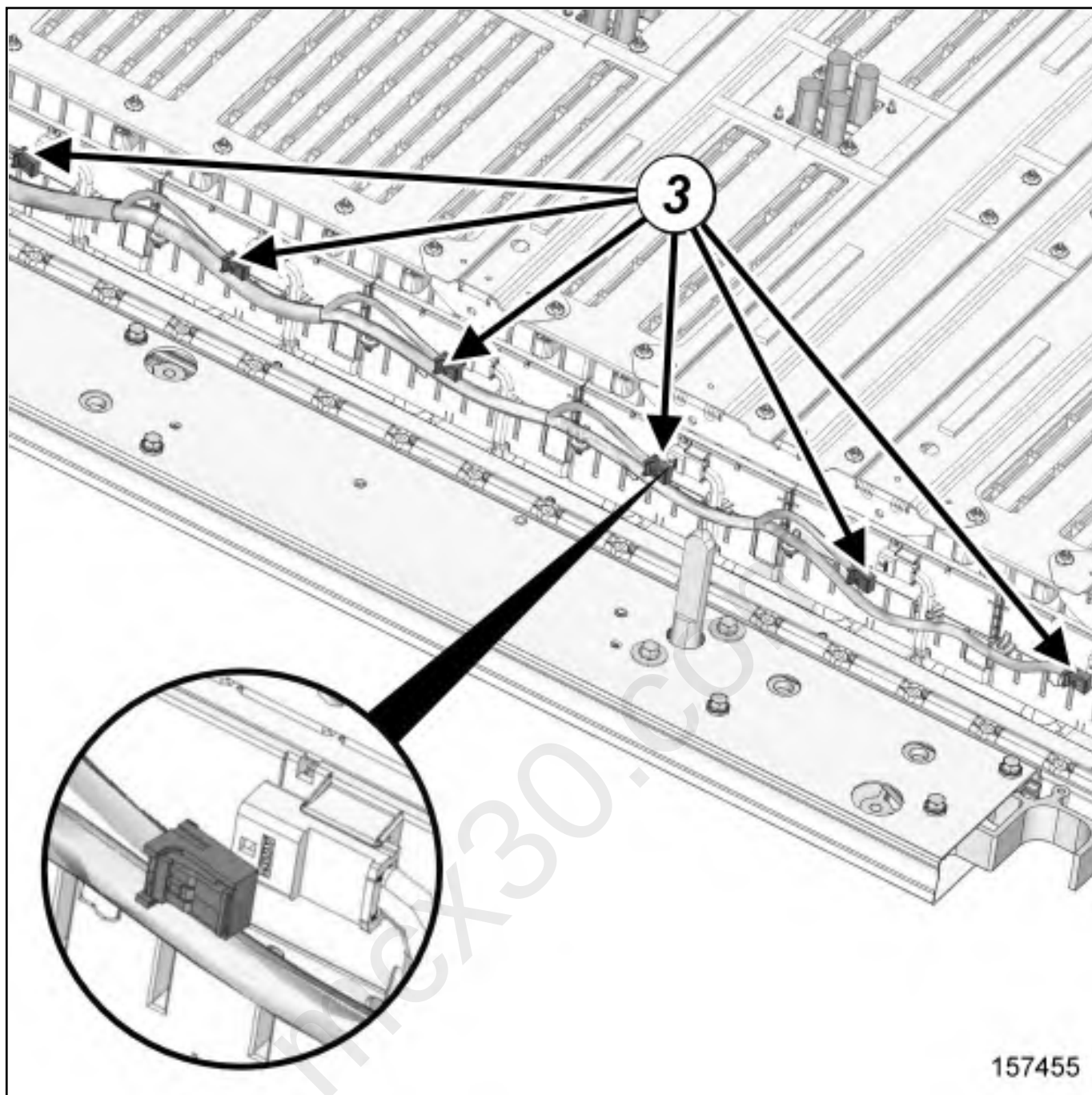
2. REMOVAL THE TRACTION BATTERY INTERNAL RIGHT LOW VOLTAGE WIRING



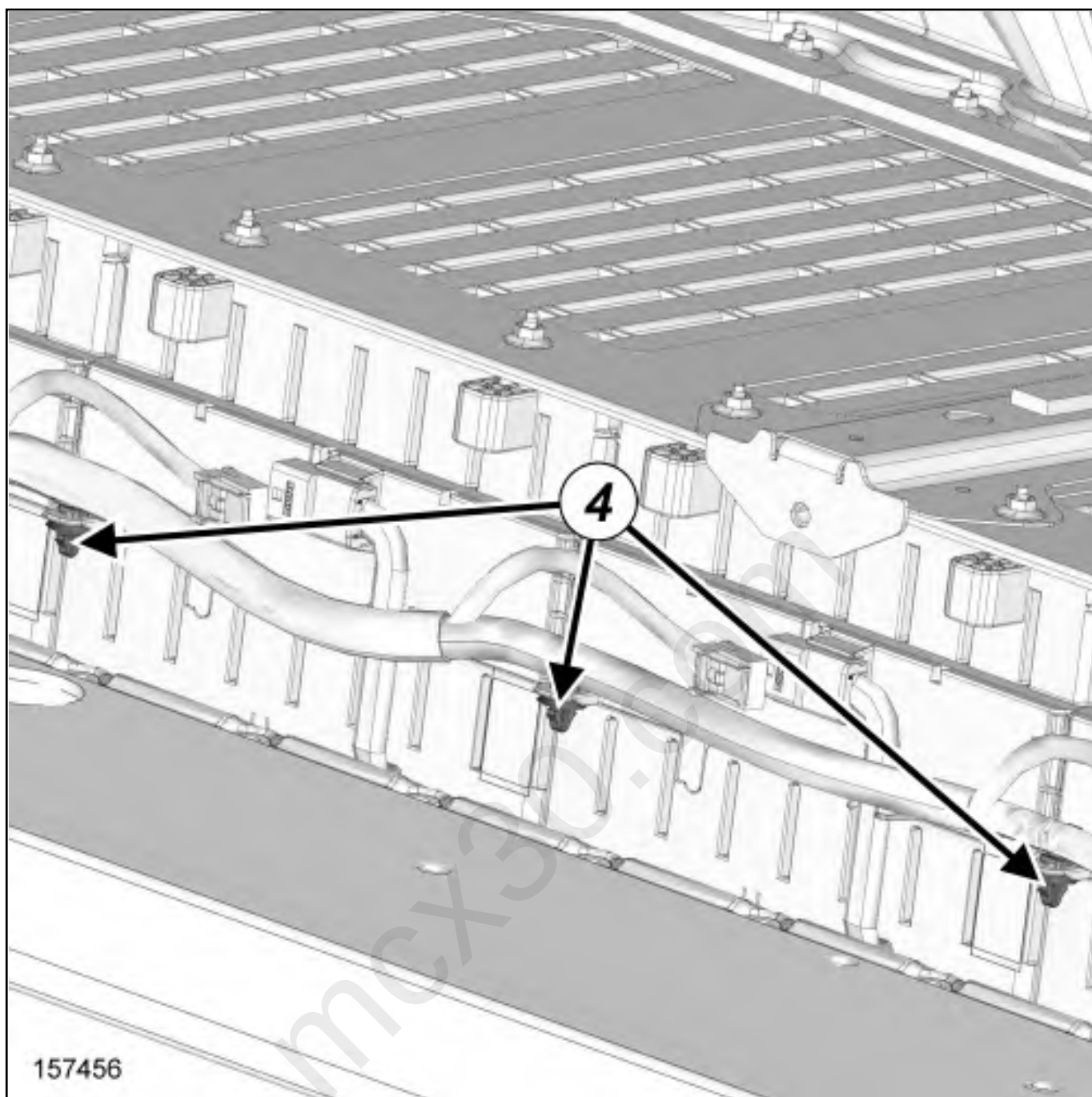
■ Remove the internal retaining shock right screws(1) using an insulated magnetic socket([see 19E, Traction battery, Traction battery module stack assembly : Exploded view](#)) .



■ Remove the internal retaining shock right pillar(2) ([see 19E, Traction battery, Traction battery module stack assembly : Exploded view](#)) .

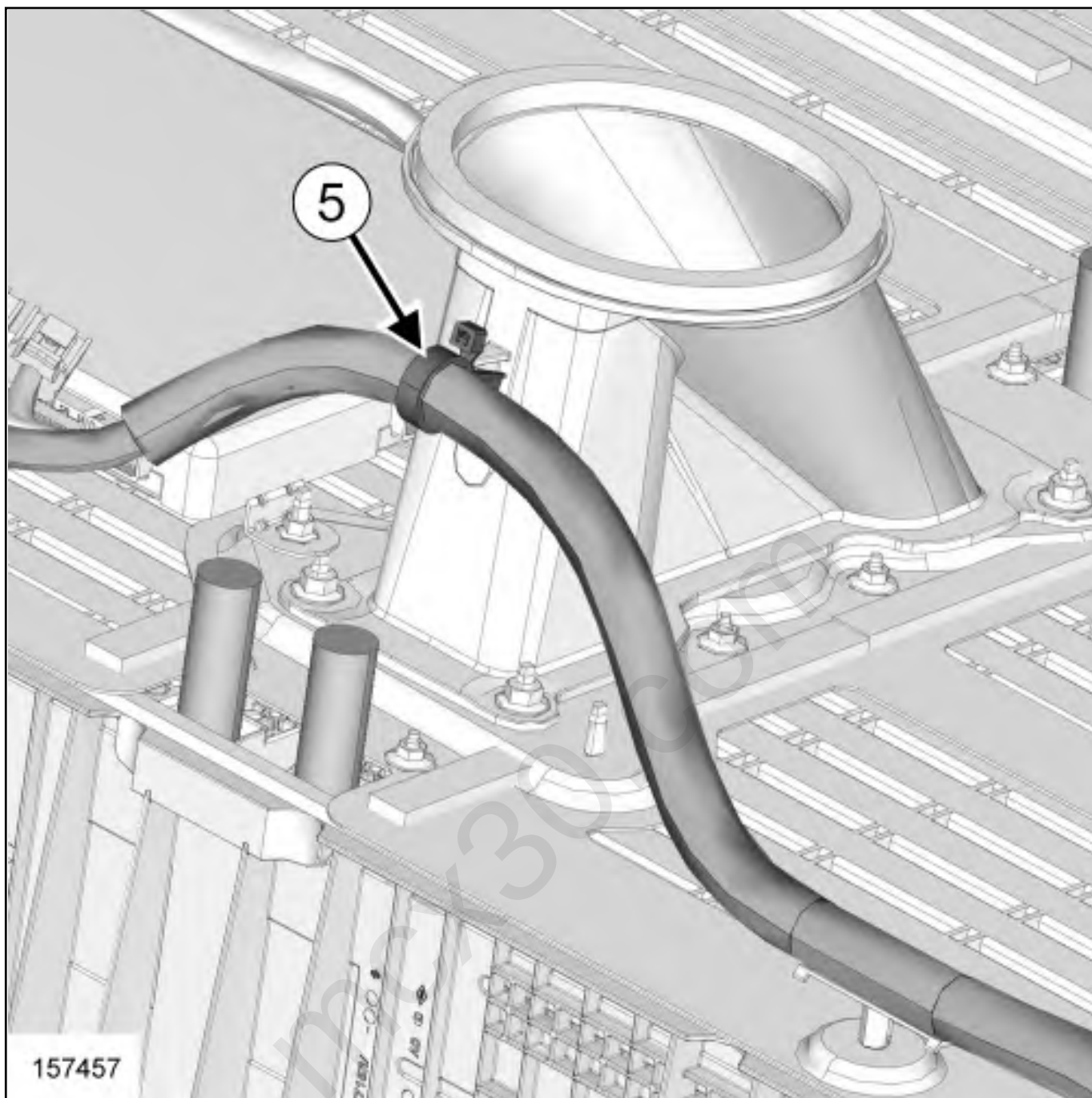


- Disconnect the module connectors(3) using the toolSet of trim removal levers.(Car. 1363) .

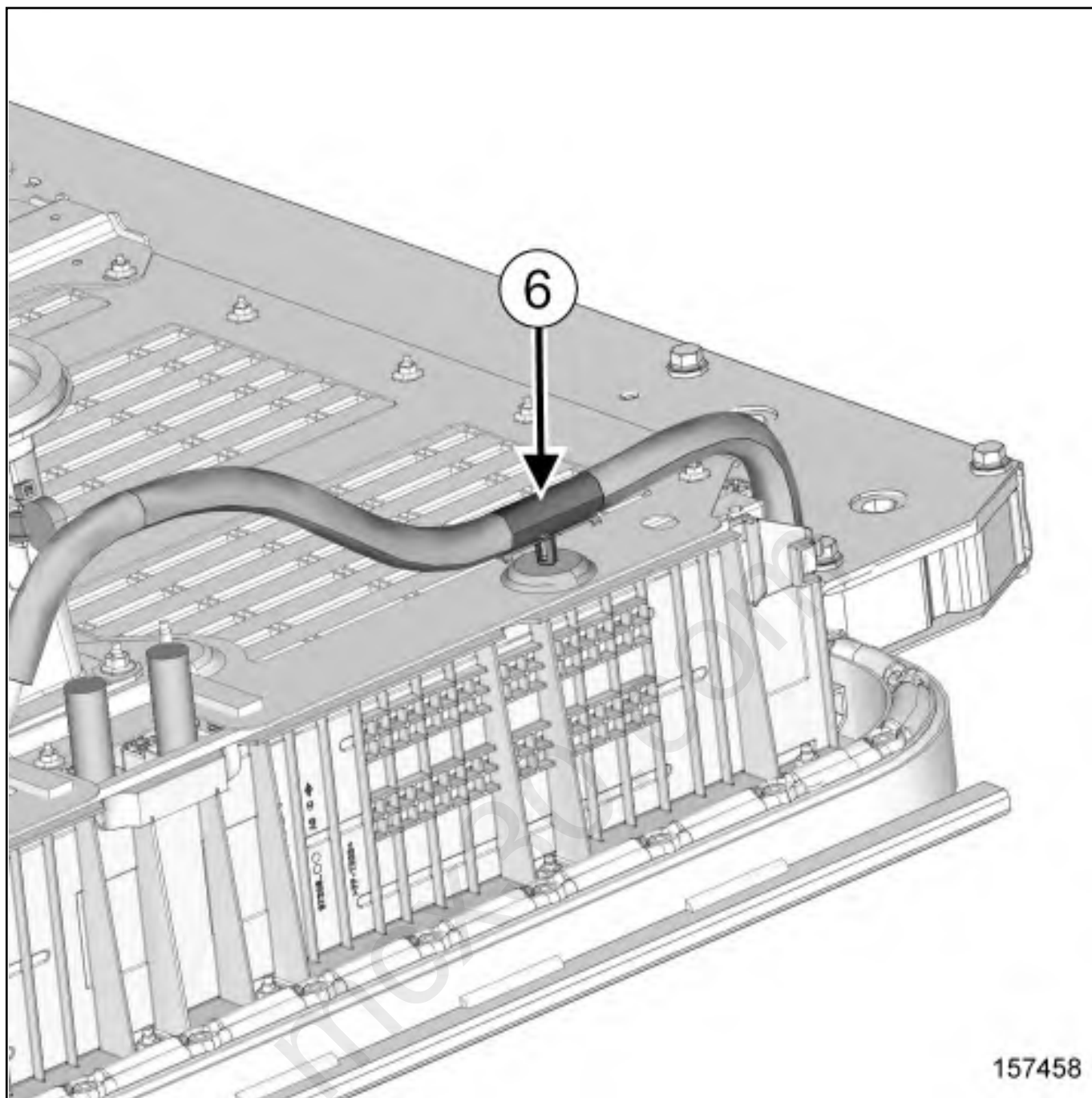


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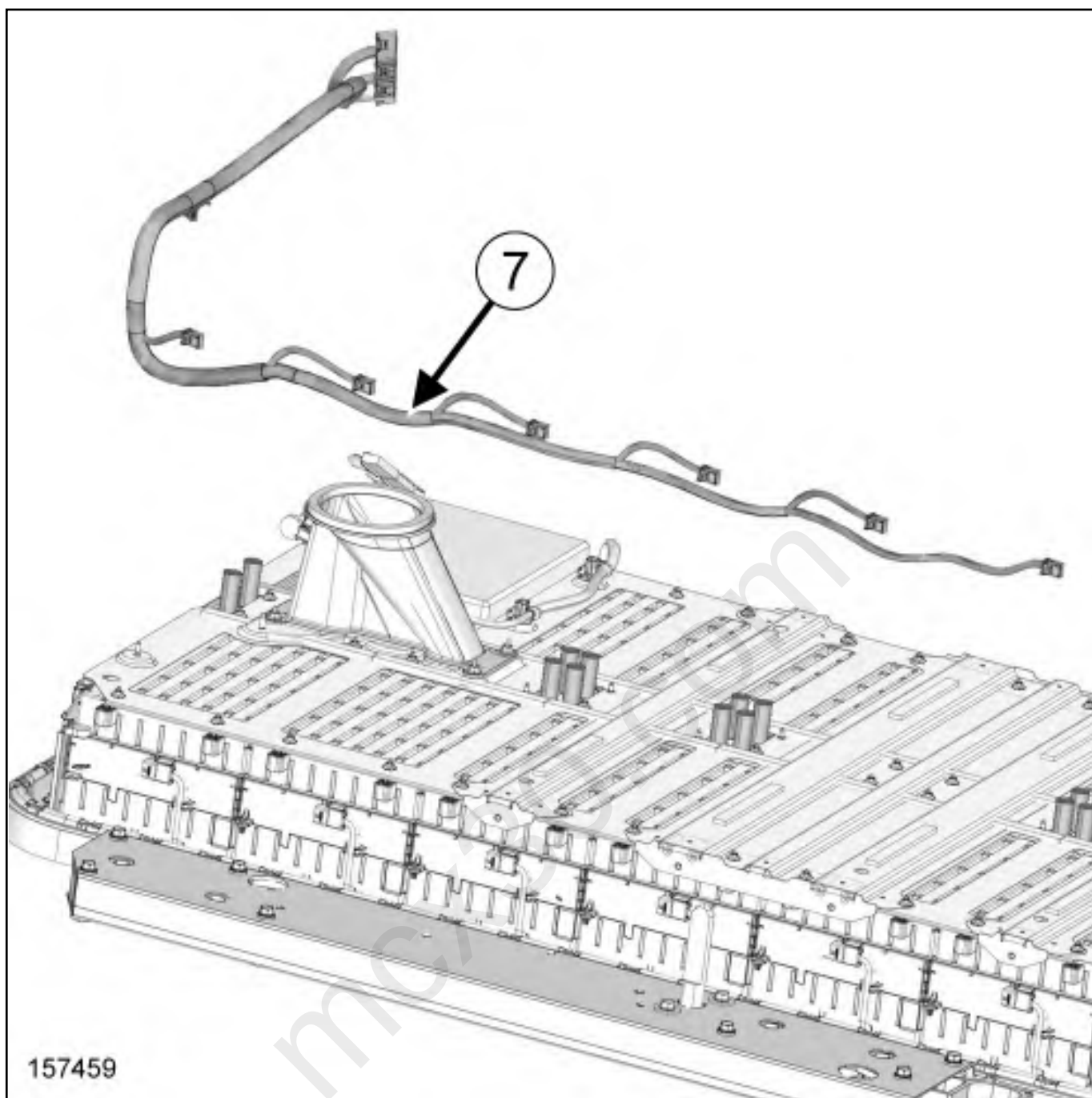
- Unclip the clips of the low voltage wiring(4) from the modules using an insulated needle nose pliers.



- Mark the location of the clamps(5) on the low voltage wiring using a paint marker.
- Cut the clamps on the low voltage wiring using the insulated cutting pliers.
- Move the low voltage wiring.

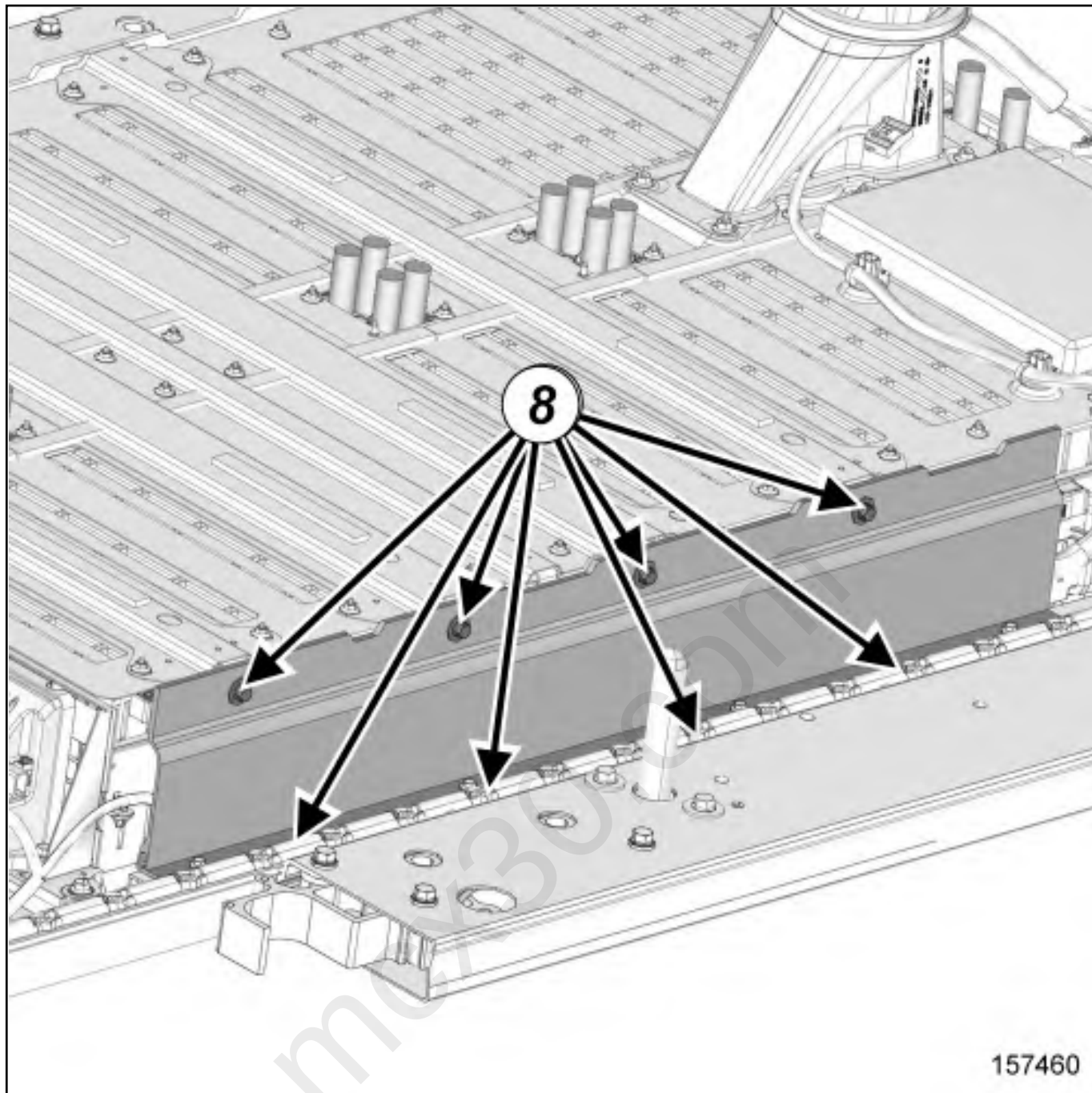


- Unclip the clip(6) from the stud using the toolSet of trim removal levers.(Car. 1363) .

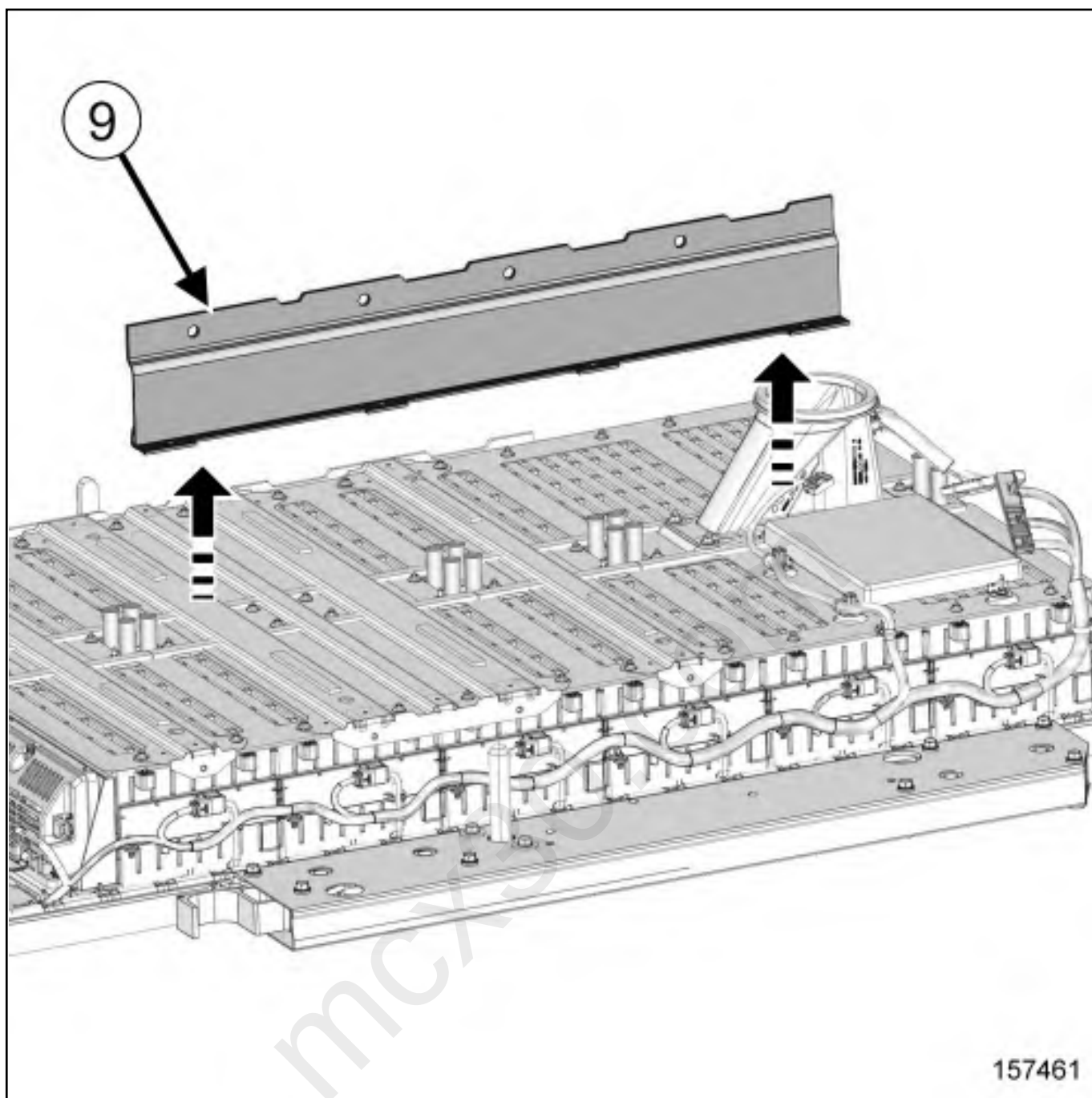


■ Remove the low voltage wiring(7) .

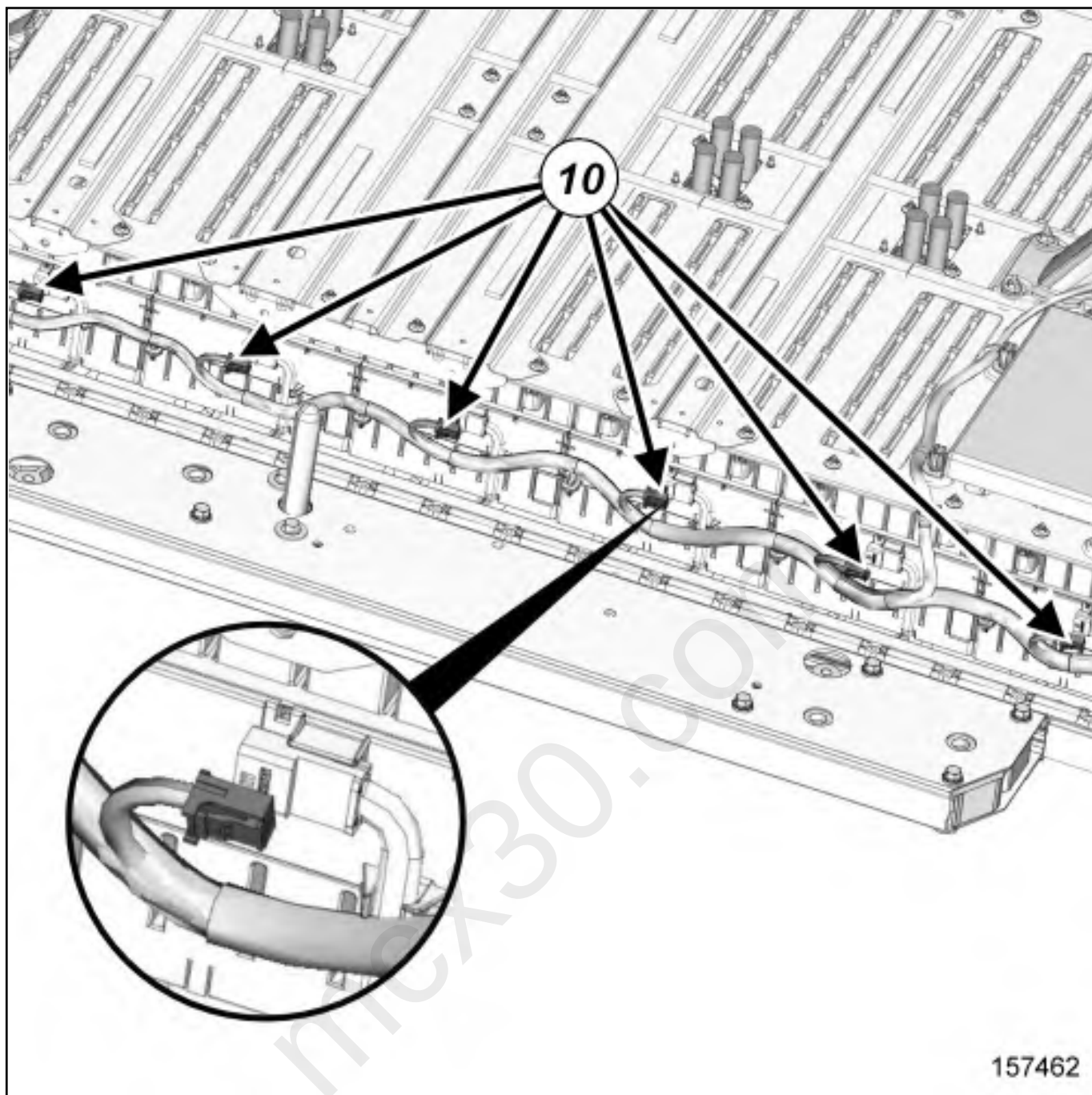
3. REMOVE THE TRACTION BATTERY INTERNAL LEFT LOW VOLTAGE WIRING



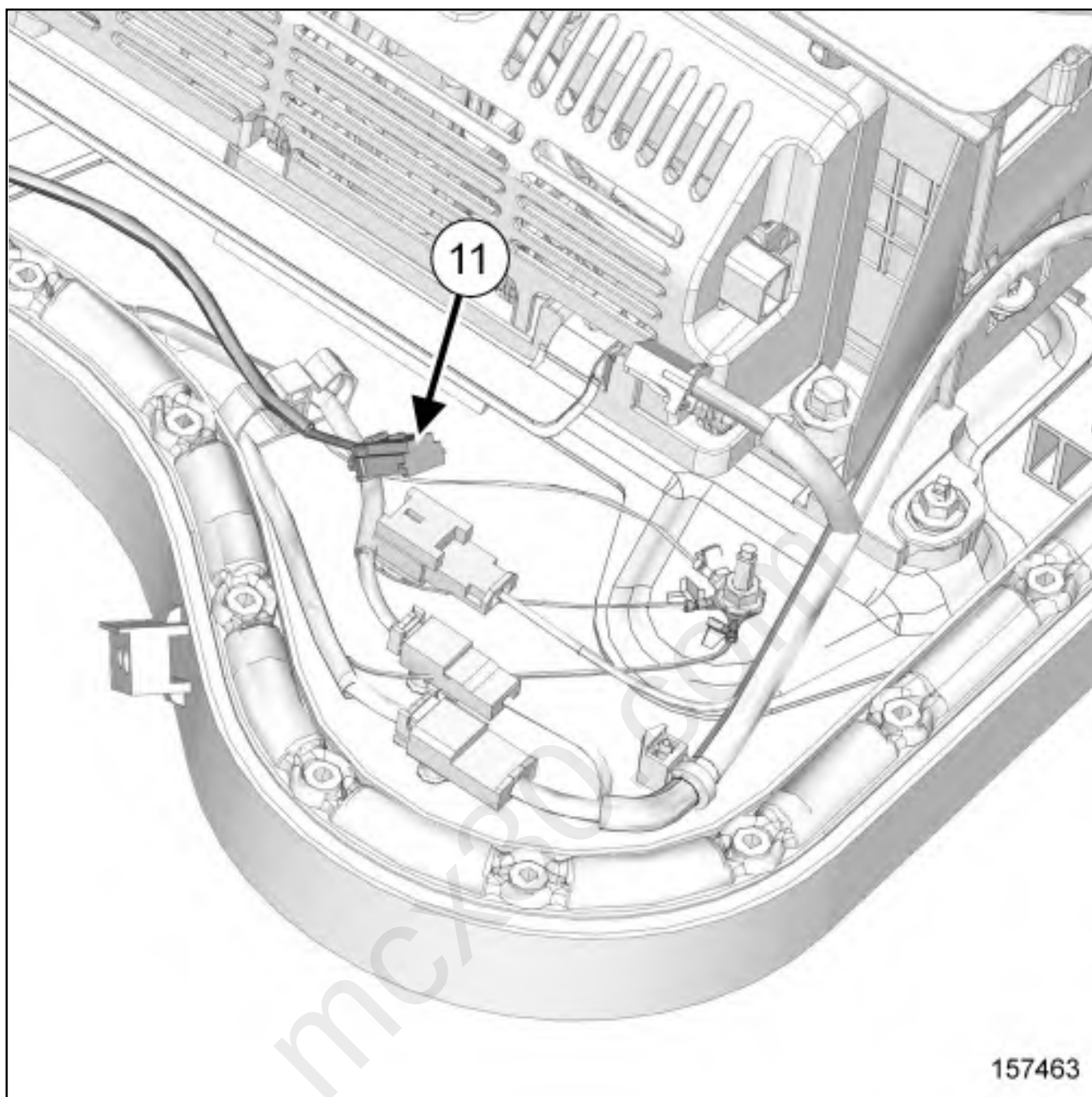
Remove the internal retaining shock left screws(8) using an insulated magnetic socket([see 19E, Traction battery, Traction battery module stack assembly : Exploded view](#)) .



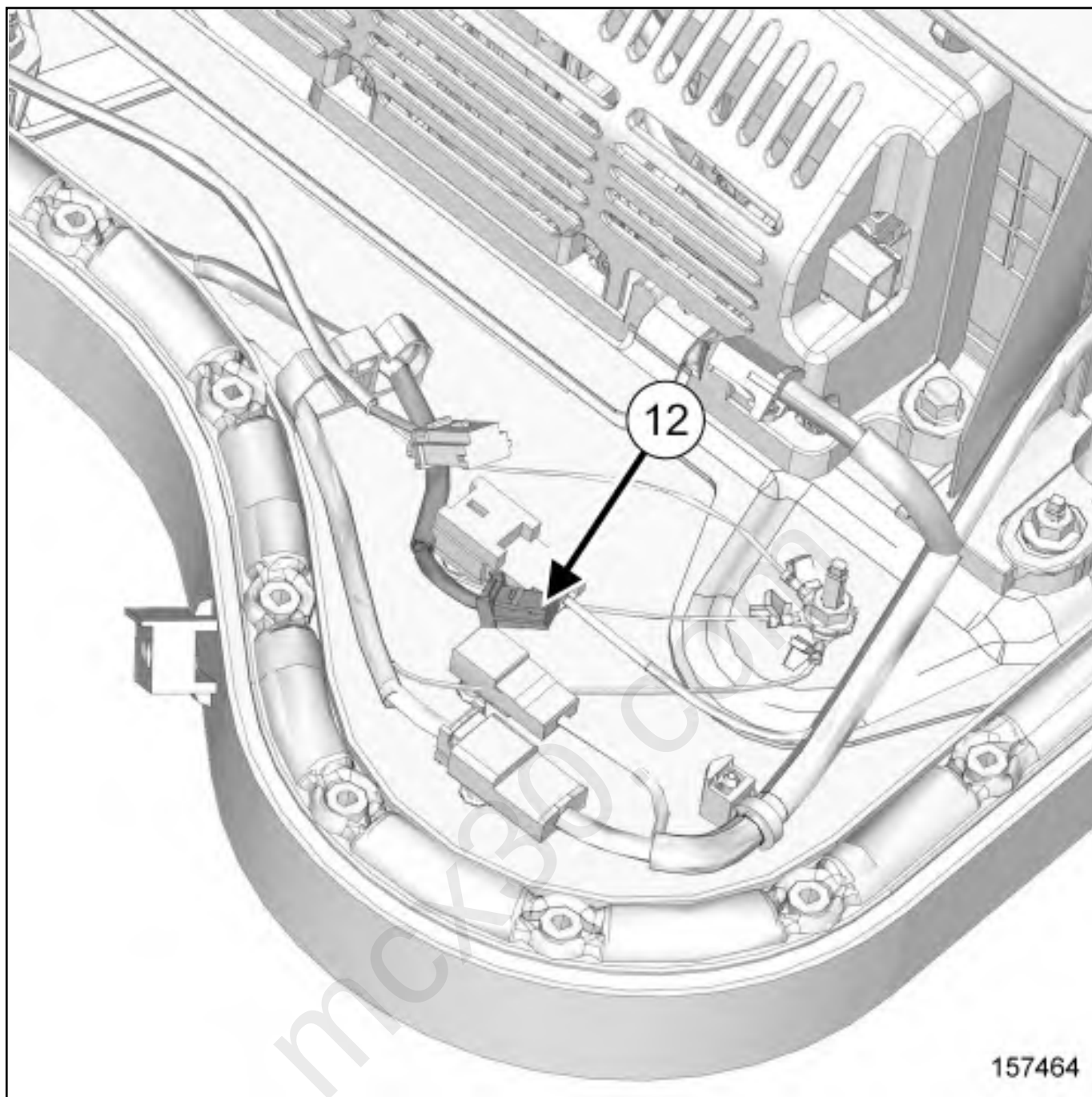
Remove the internal retaining shock left pillar(9) ([see 19E, Traction battery, Traction battery module stack assembly : Exploded view](#)) .



Disconnect the module connectors(10) using the toolSet of trim removal levers.(Car. 1363) .



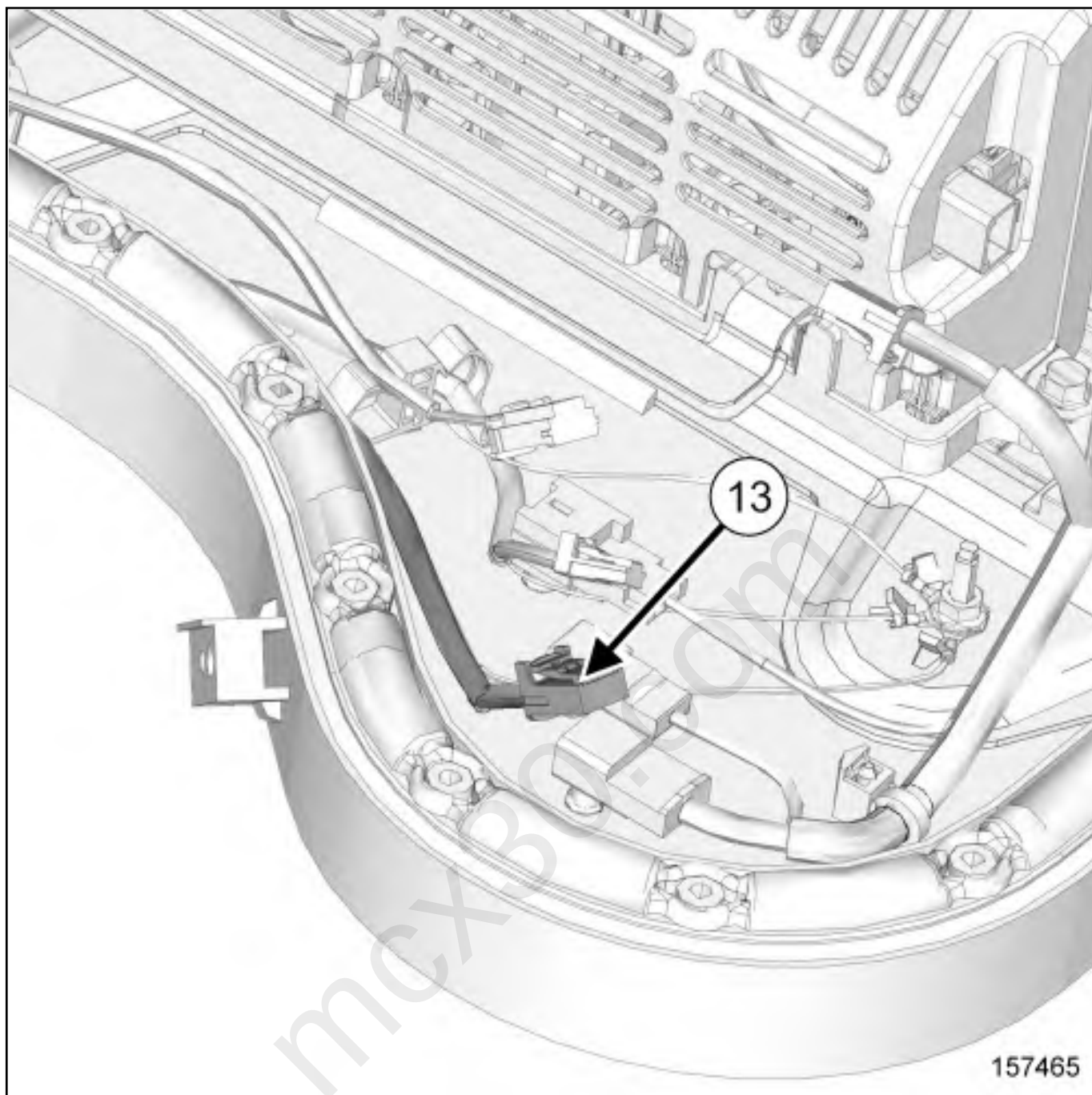
Disconnect the safety device switch socket interlock wire plug(11) using the toolSet of trim removal levers.(Car. 1363) .



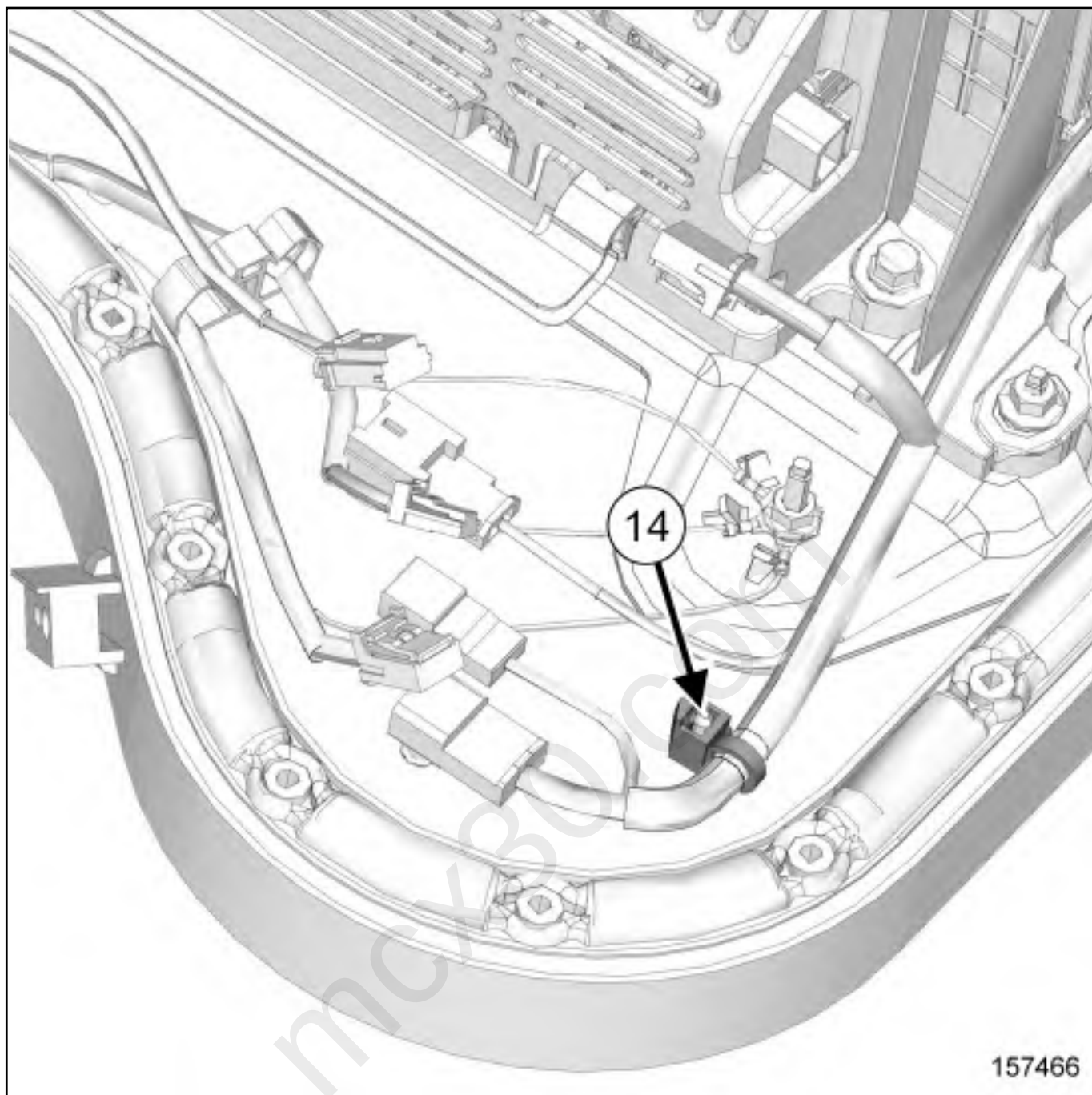
Disconnect the high voltage connector interlock wire plug(12) using the toolSet of trim removal levers. (Car. 1363) .



Move the low connector wiring

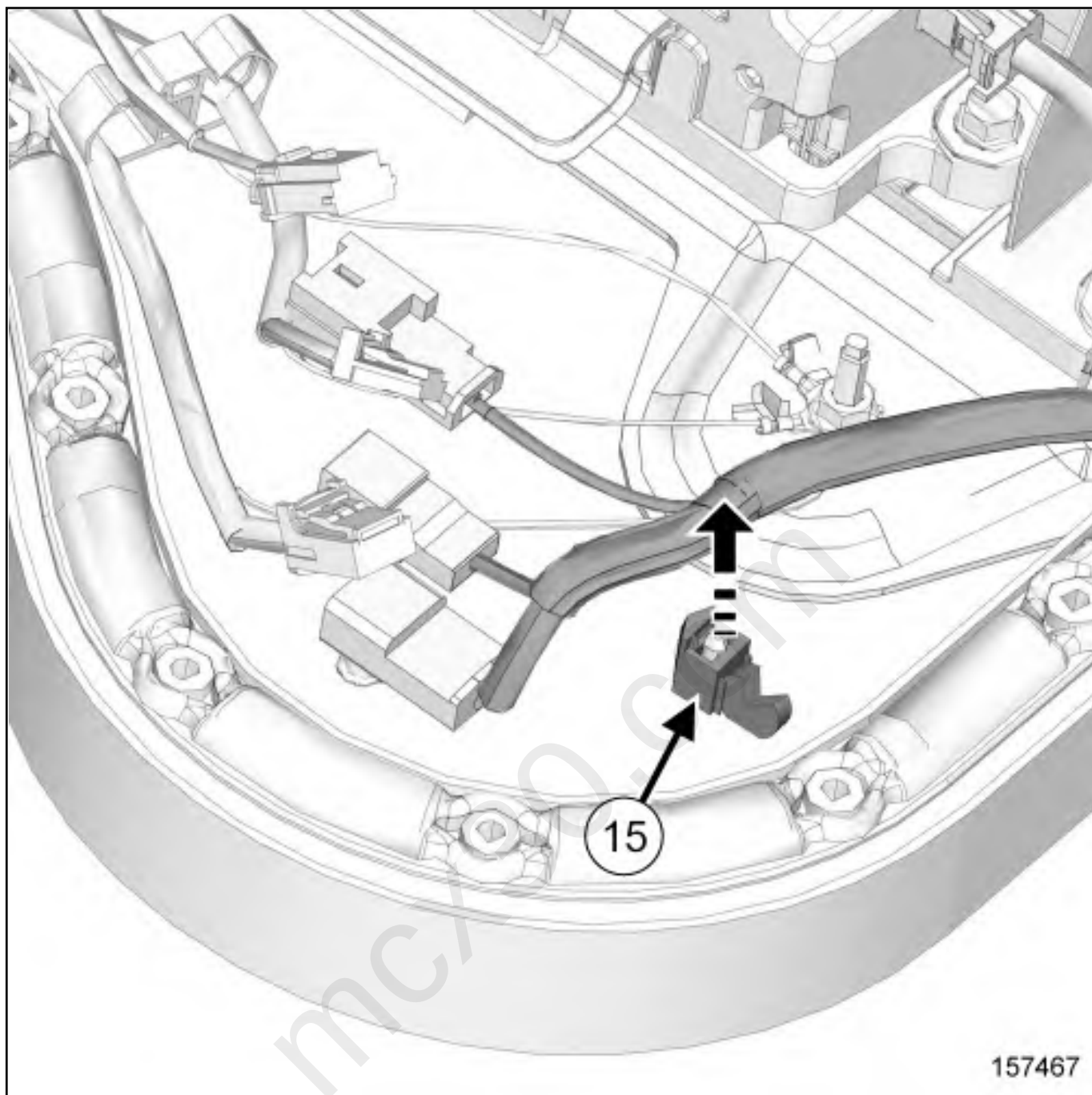


Disconnect the low voltage connector wire plug(13) using the toolSet of trim removal levers.(Car. 1363) .



Mark the the location of the clamp on the low voltage wiring(14) using a paint marker.

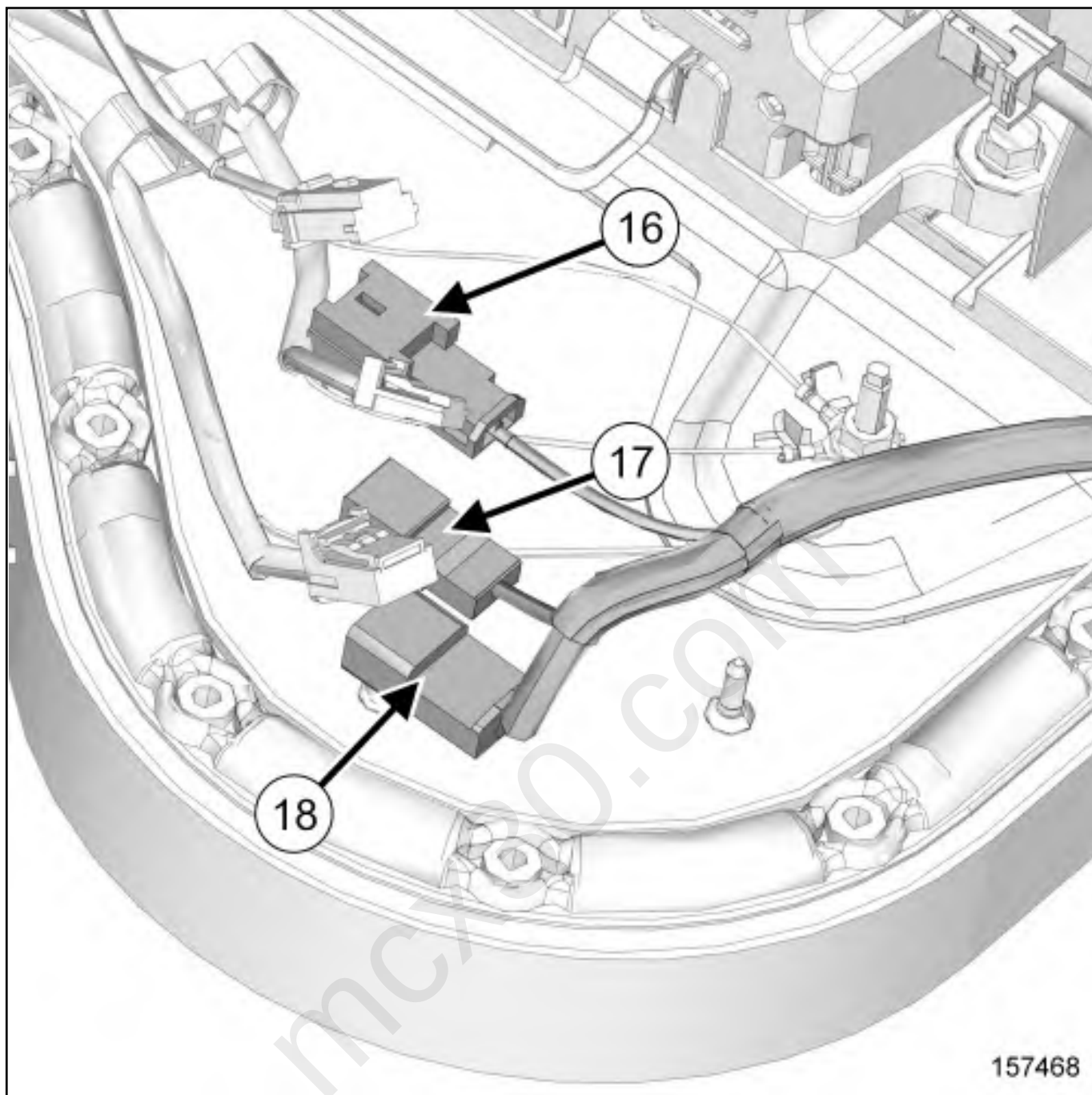
Cut the clamp on the low voltage wiring using the insulated cutting pliers.



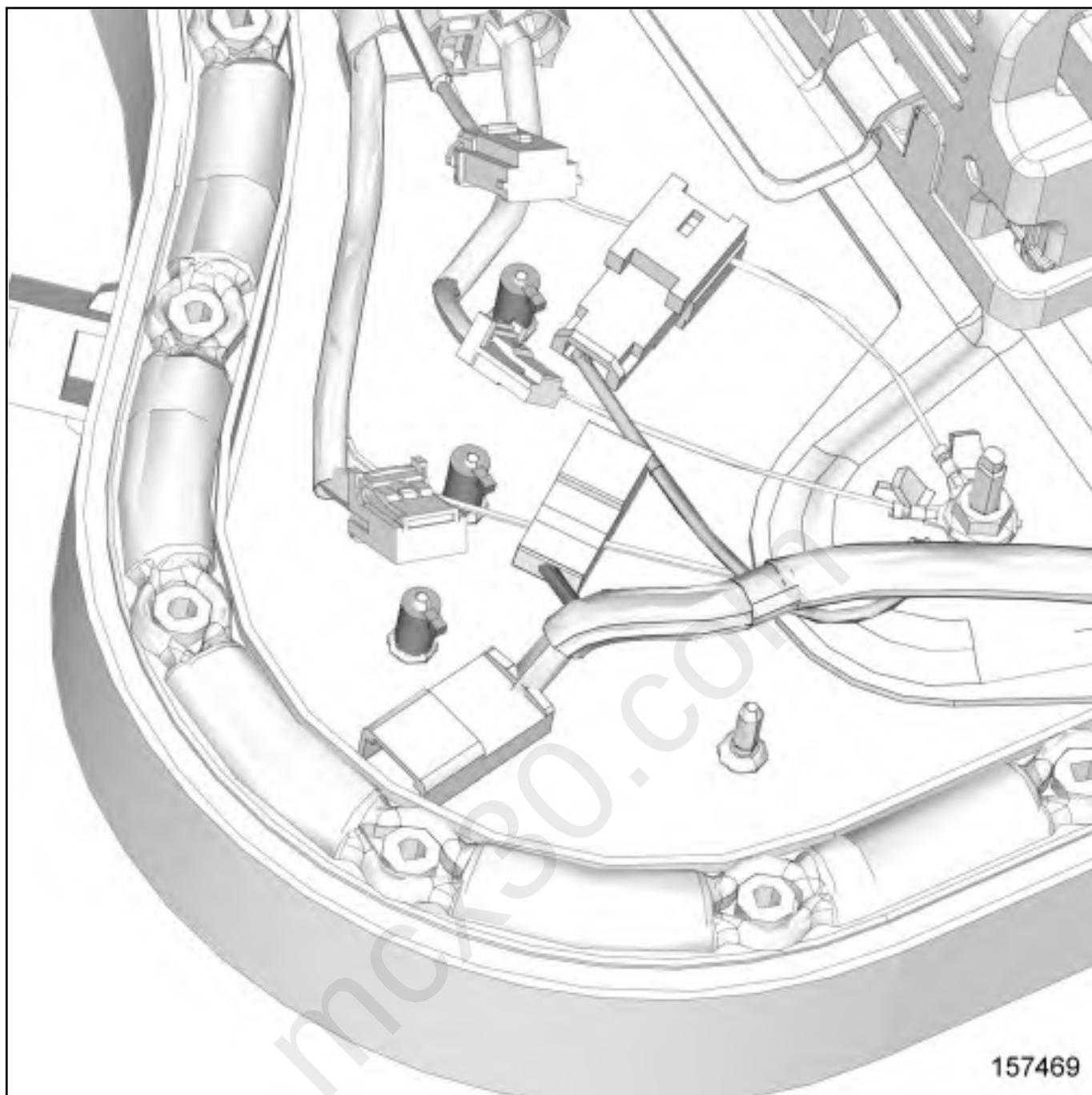
Move :

- the low voltage wiring,

- the clip from the stud(15) using the toolSet of trim removal levers.(Car. 1363) .



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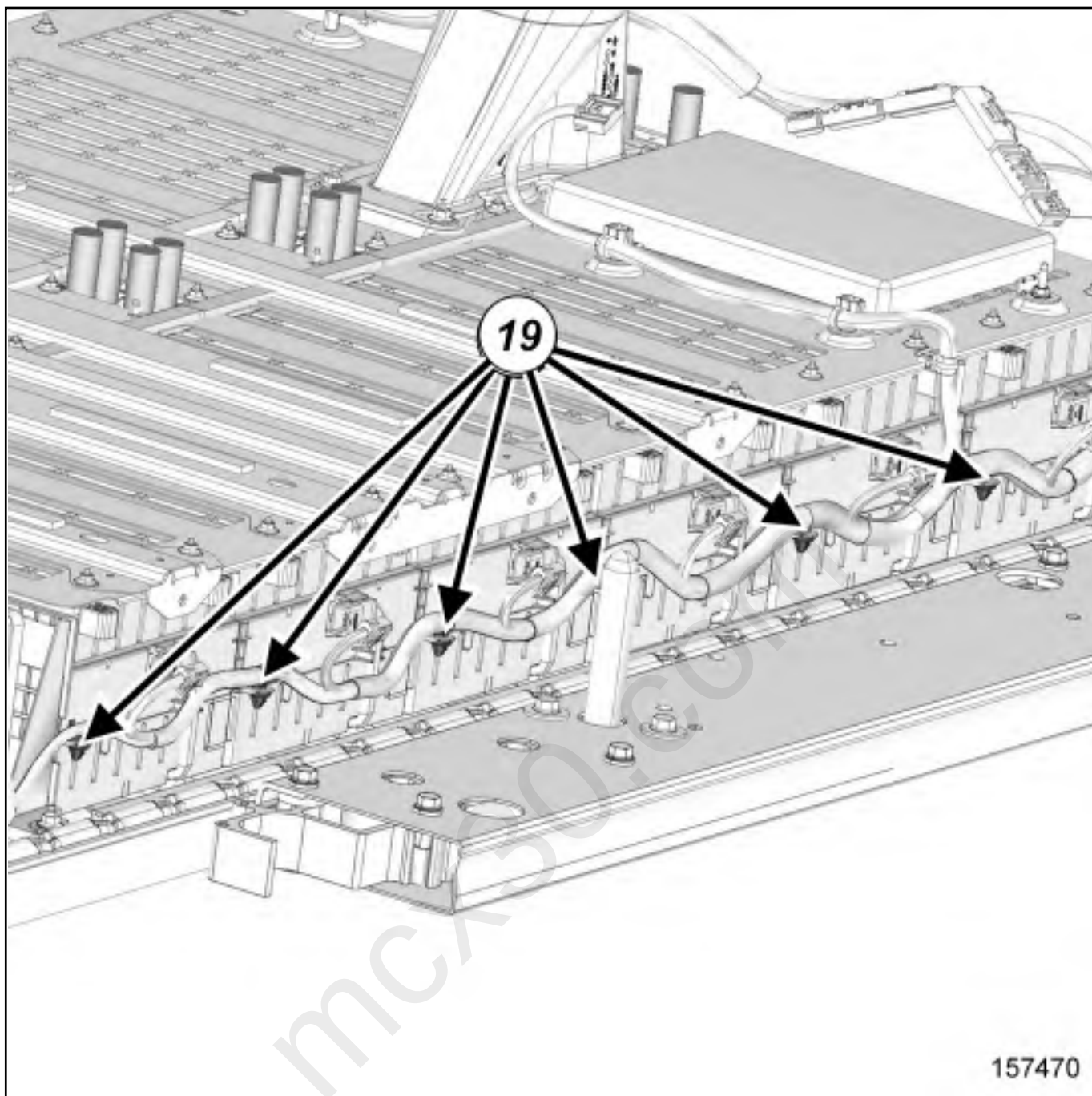


Unclip using the toolSet of trim removal levers.(Car. 1363) :

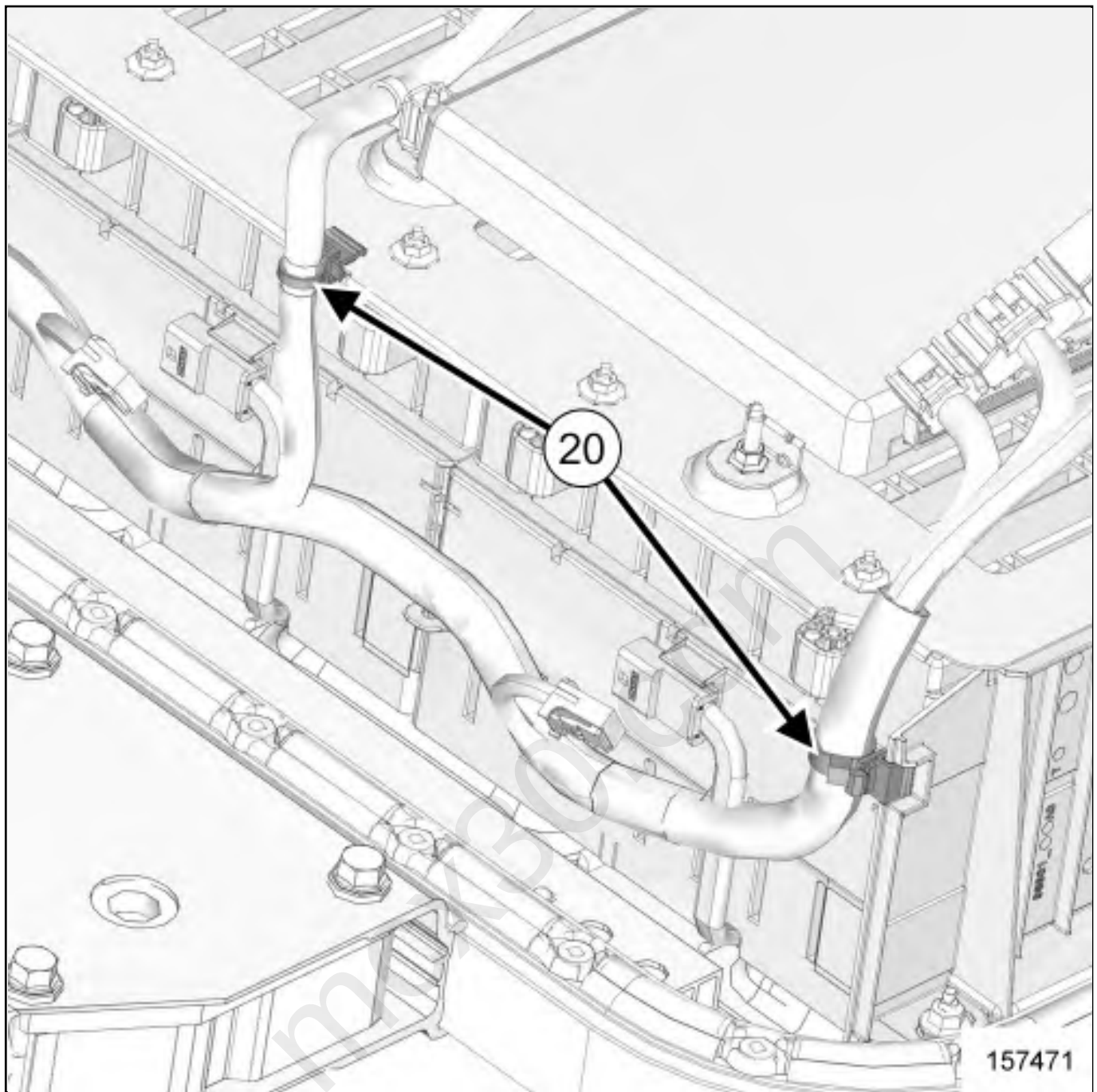
- the safety device switch socket interlock wire socket(16) ,

- the high voltage connector wire socket(17) ,

- the low voltage connector wire socket(18) .



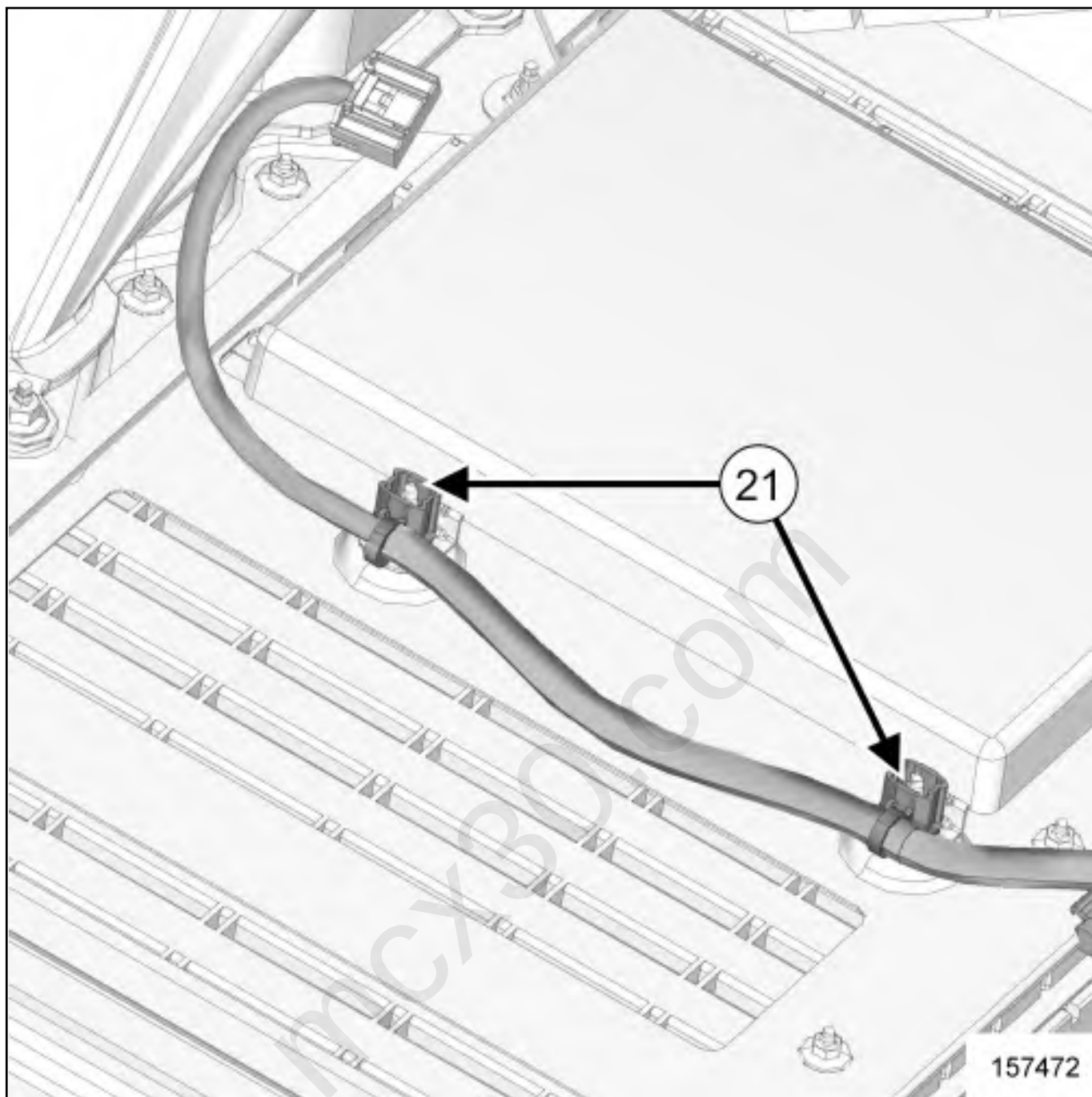
Unclip the clips of the low voltage wiring from the modules(19) using an insulated needle nose pliers.



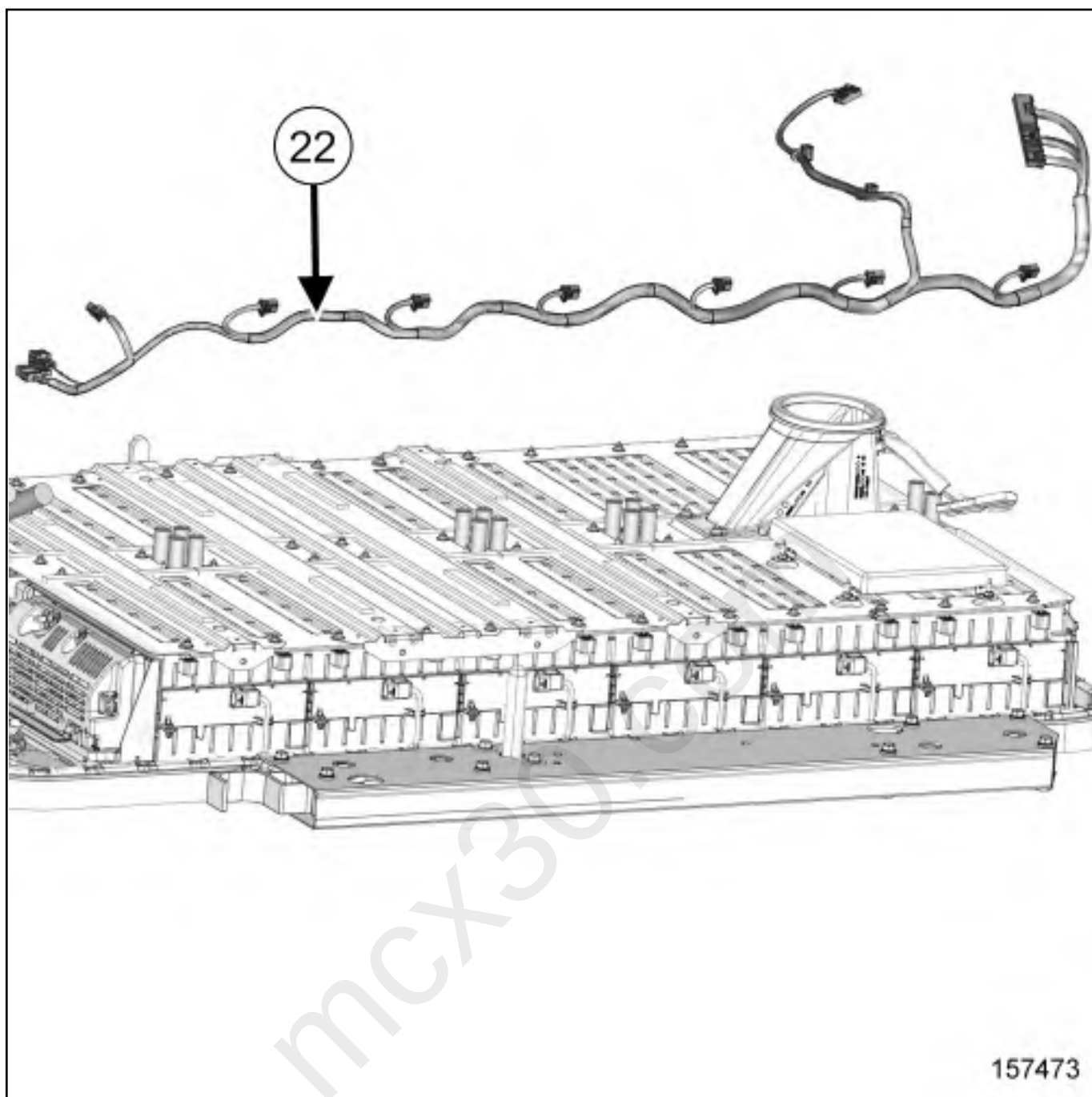
Mark the location of the clamps(20) on the low voltage wiring using a paint marker.

Cut the clamps on the low voltage wiring using the insulated cutting pliers.

Move the low voltage wiring.



Unclip the clips(21) from the studs using the toolSet of trim removal levers.(Car. 1363) .



Remove the low voltage wiring(22) .

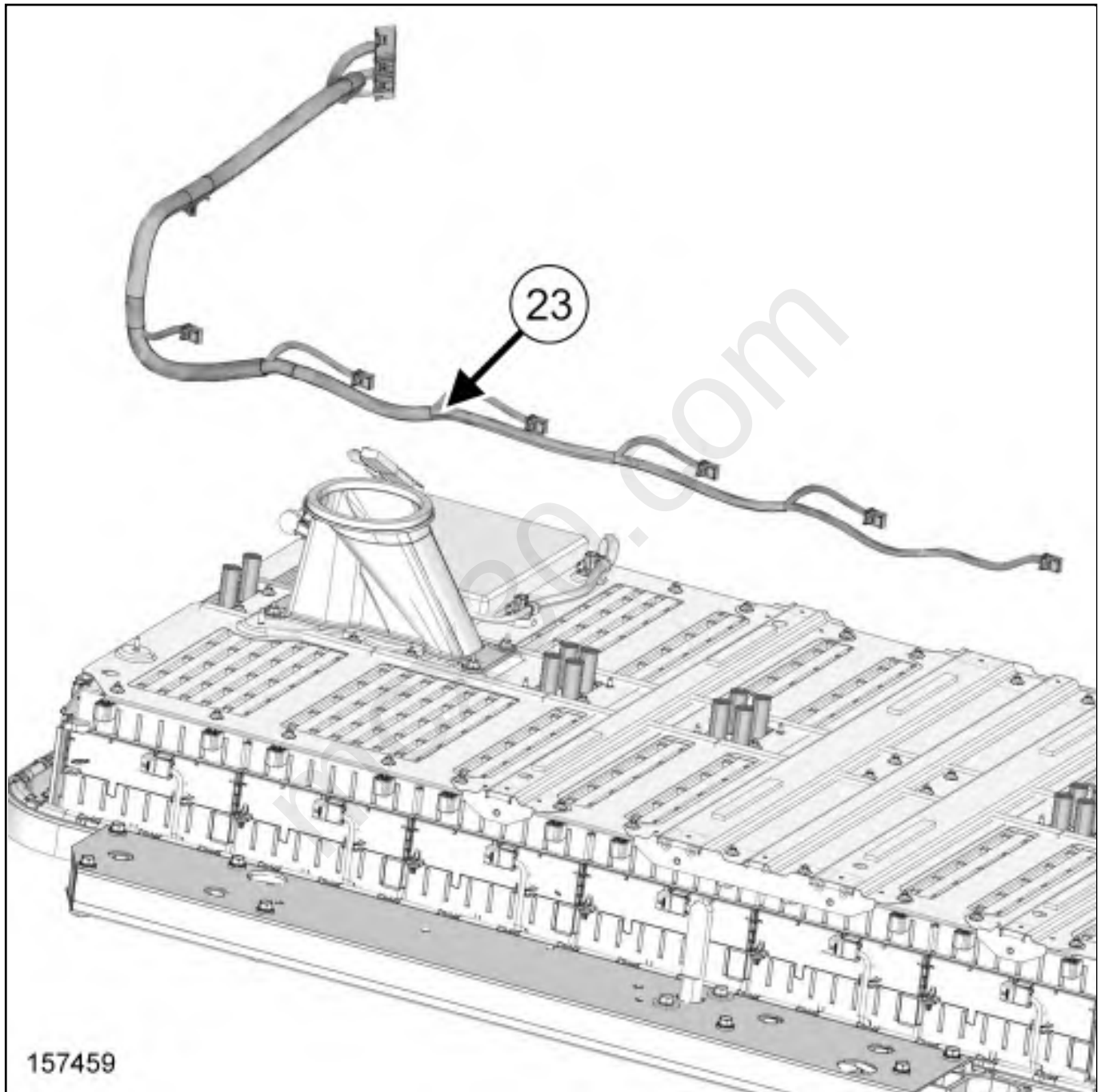
REFITTING

1. REFIT THE TRACTION BATTERY INTERNAL RIGHT LOW VOLTAGE WIRING

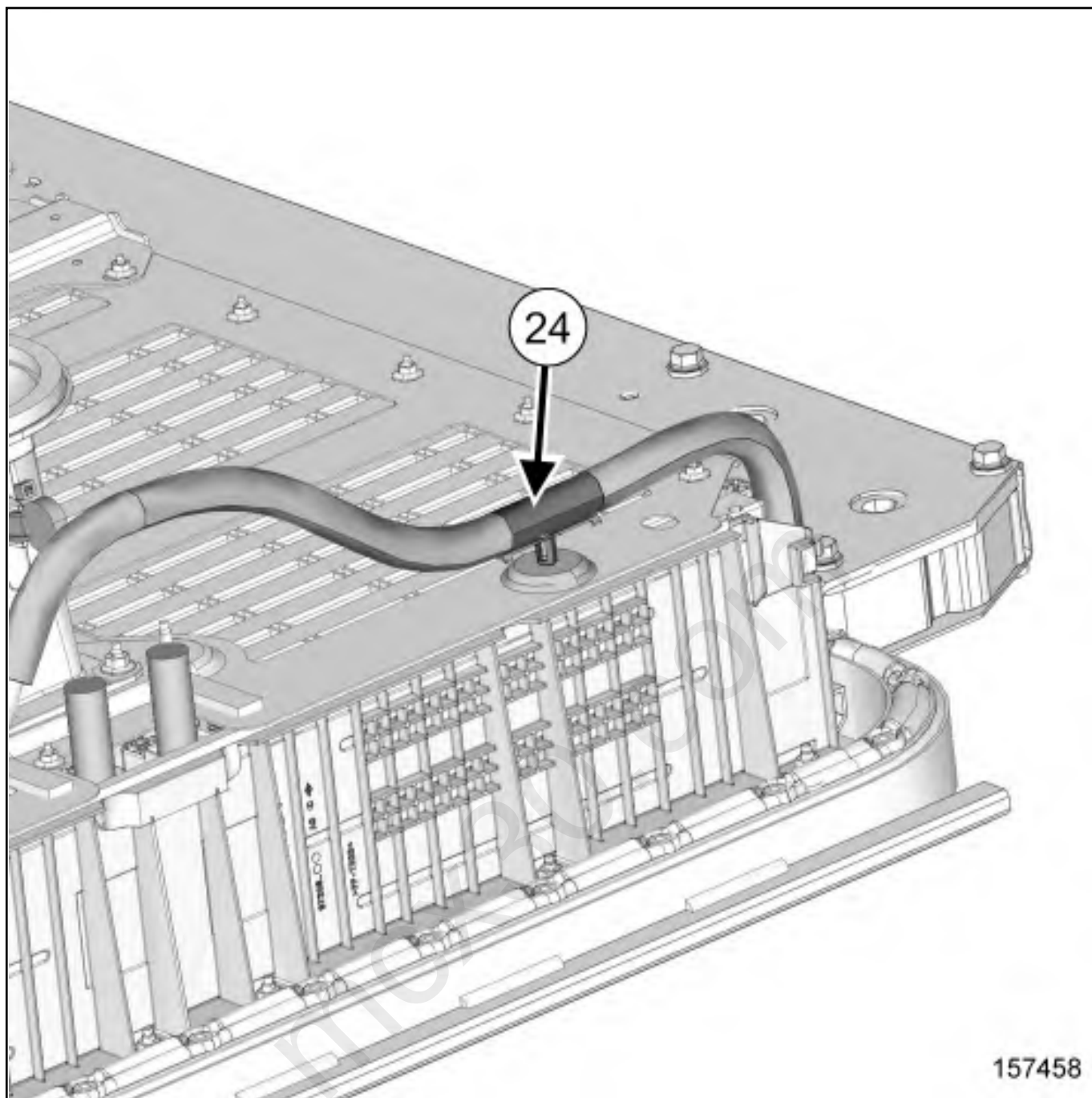
Note:



If refitting the original wiring, check the state of the wiring . Replace it in case of damage and analyse the origin. Sensitive zone, rear crash box and rear curve of wiring.

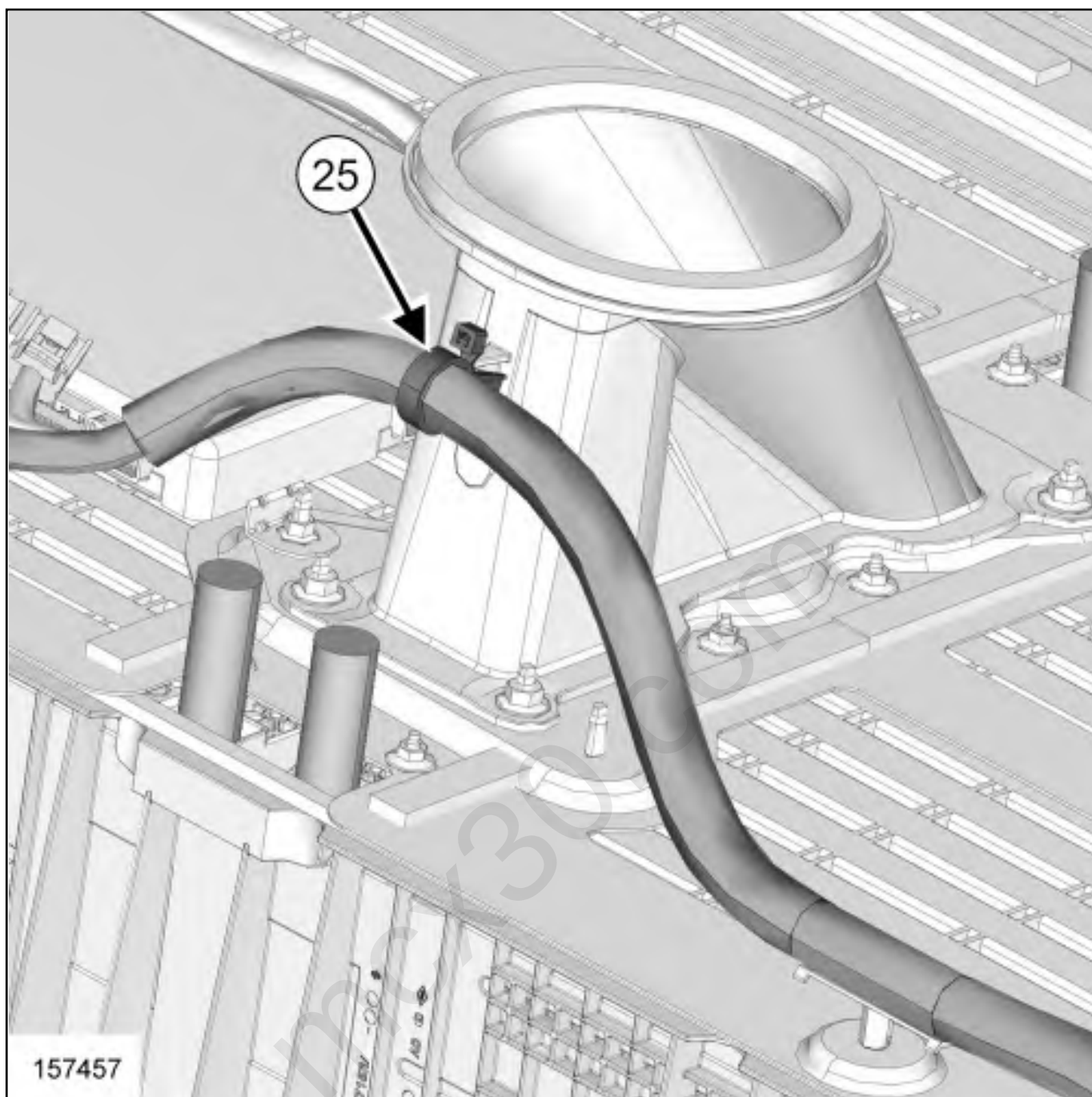


Refit the low voltage wiring(23) .



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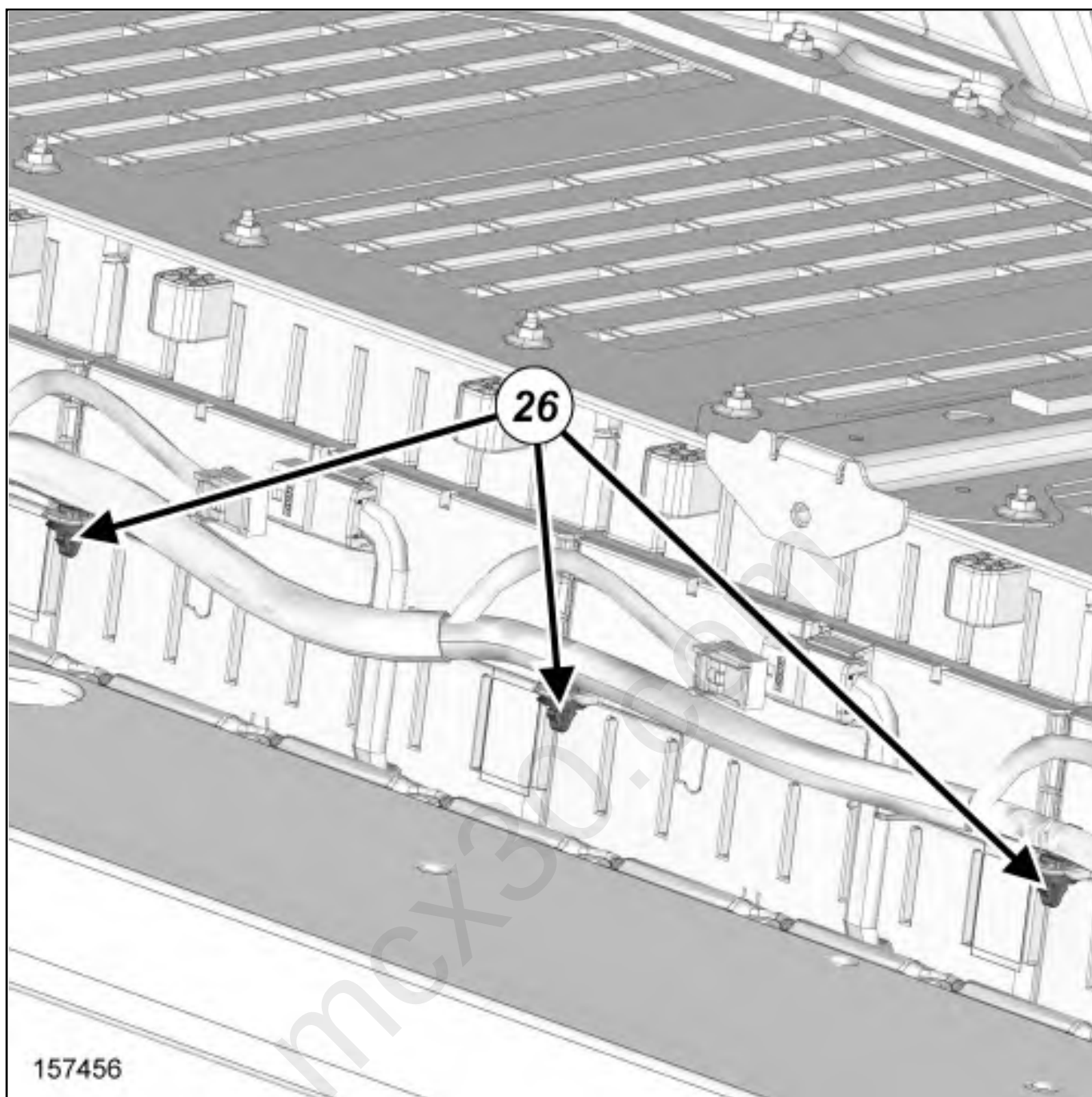
Clip the the clip on the stud(24) .



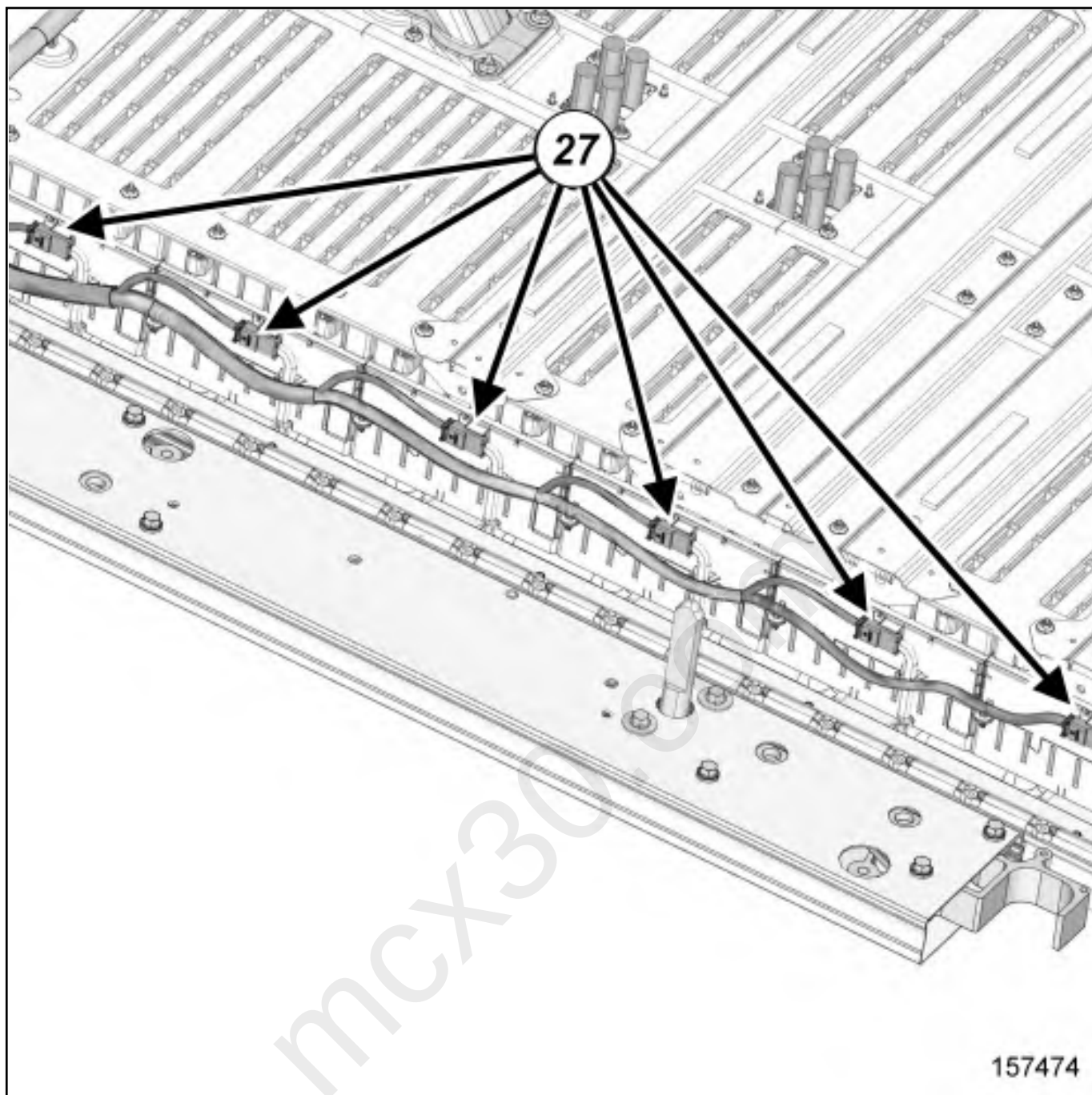
Fit the clamps(25) at the place indicated on the low voltage wiring.

Clip the clamps clip.

Cut the clip clamps using an insulated cutting pliers.



Clip the clips(26) of the low volage wiring on the modules.



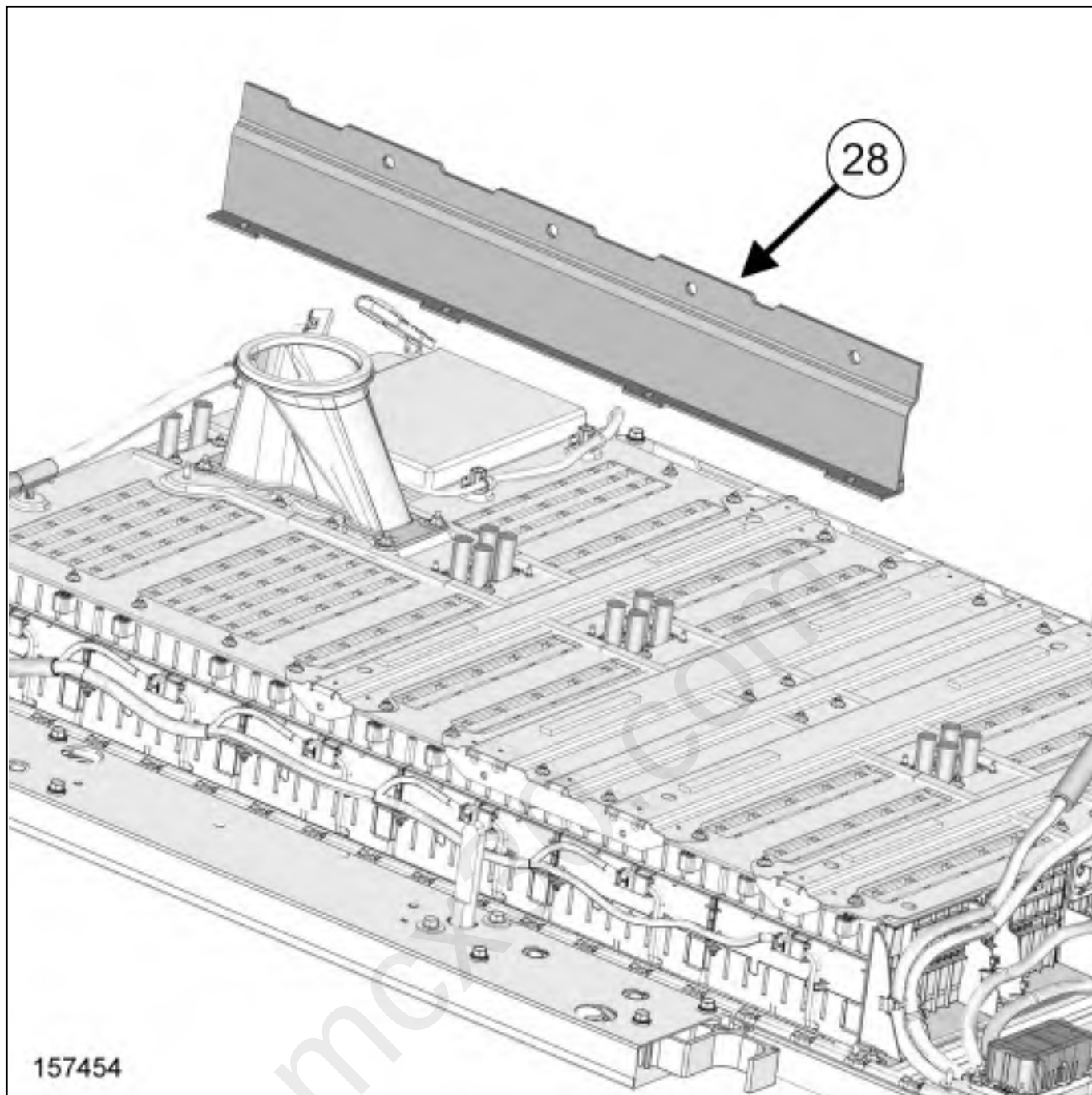
Connect the low volage wiring plugs(27) on the modules sockets.

Note:



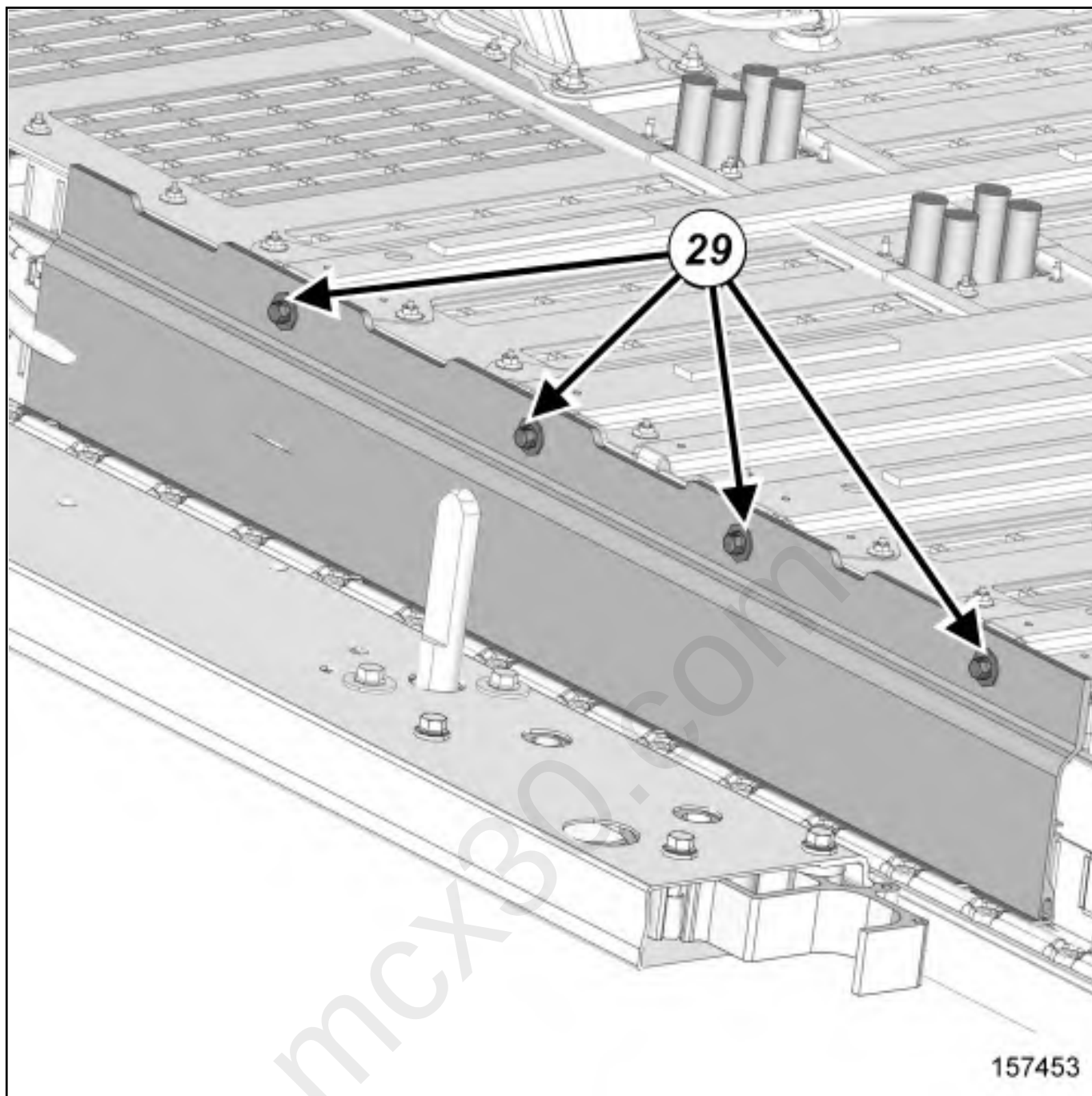
Make a push-pull test on the connector.

Pay attention to the good state of the wiring.



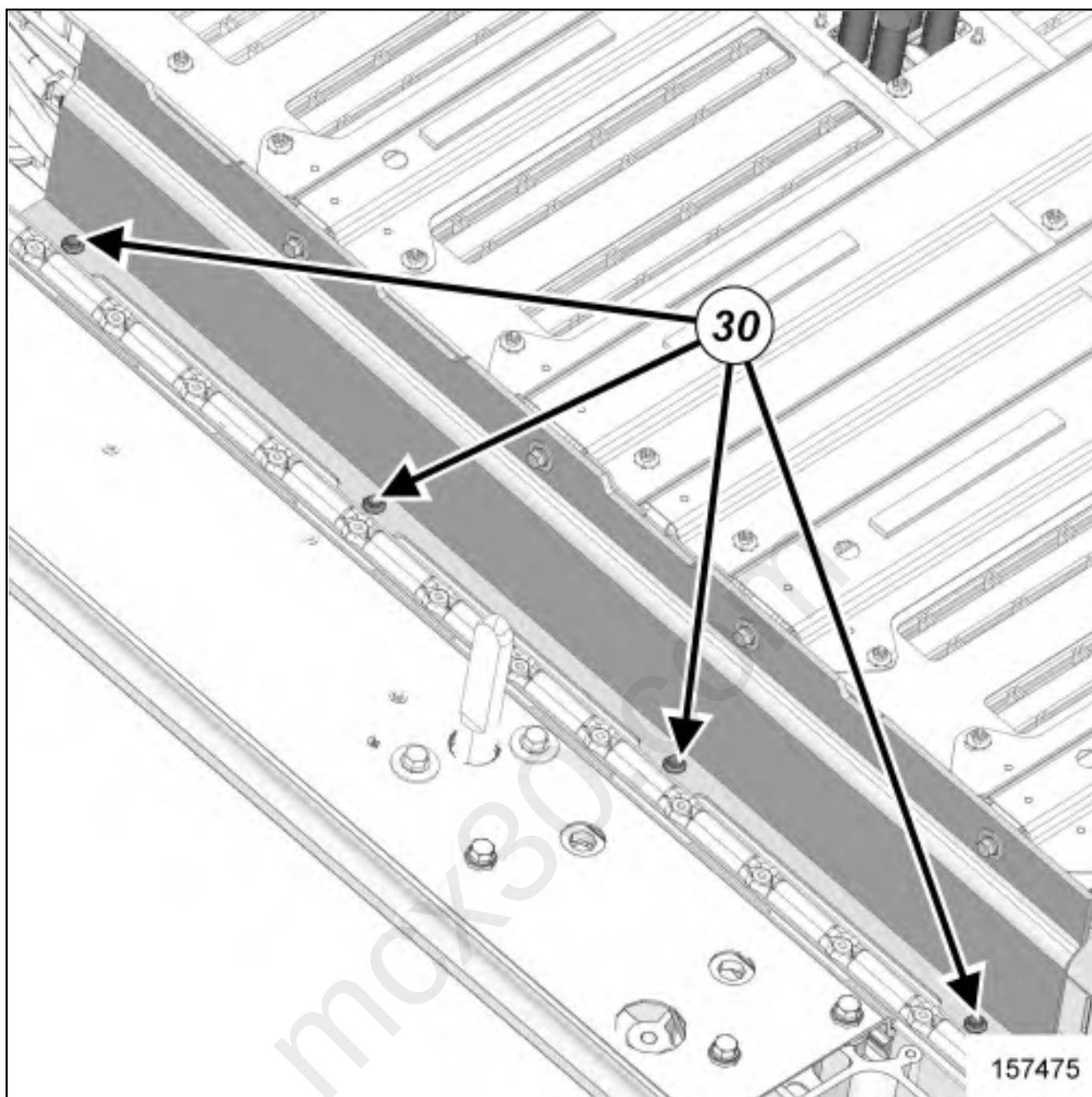
Refit the internal retaining shock right pillar(28) .

Refit the internal retaining shock pillar screws using an insulated magnetic socket([see 19E, Traction battery, Traction battery module stack assembly : Exploded view](#)) .



■ Torque tighten the internal retaining shock pillar upper screws(29) using an insulated magnetic socket ([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.



■ Torque tighten the internal retaining shock pillar lower screws(30) using an insulated magnetic socket ([see 19E, Traction battery, Traction battery module stack assembly : Exploded view](#)) .

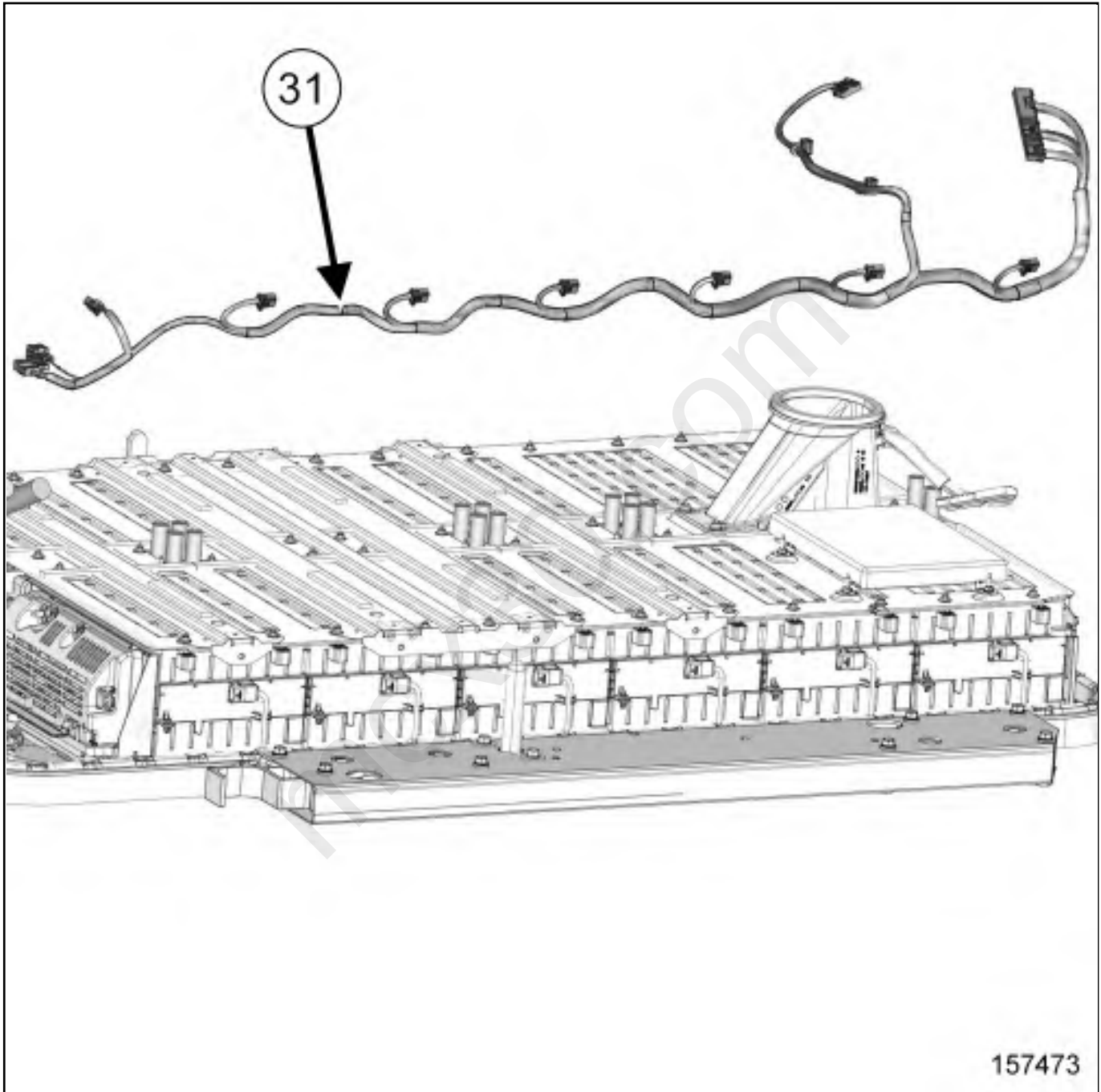
■ Mark always the screws with a PAINT MARKER of a color different from the original.

2. REFIT THE TRACTION BATTERY INTERNAL LEFT LOW VOLTAGE WIRING

Note:

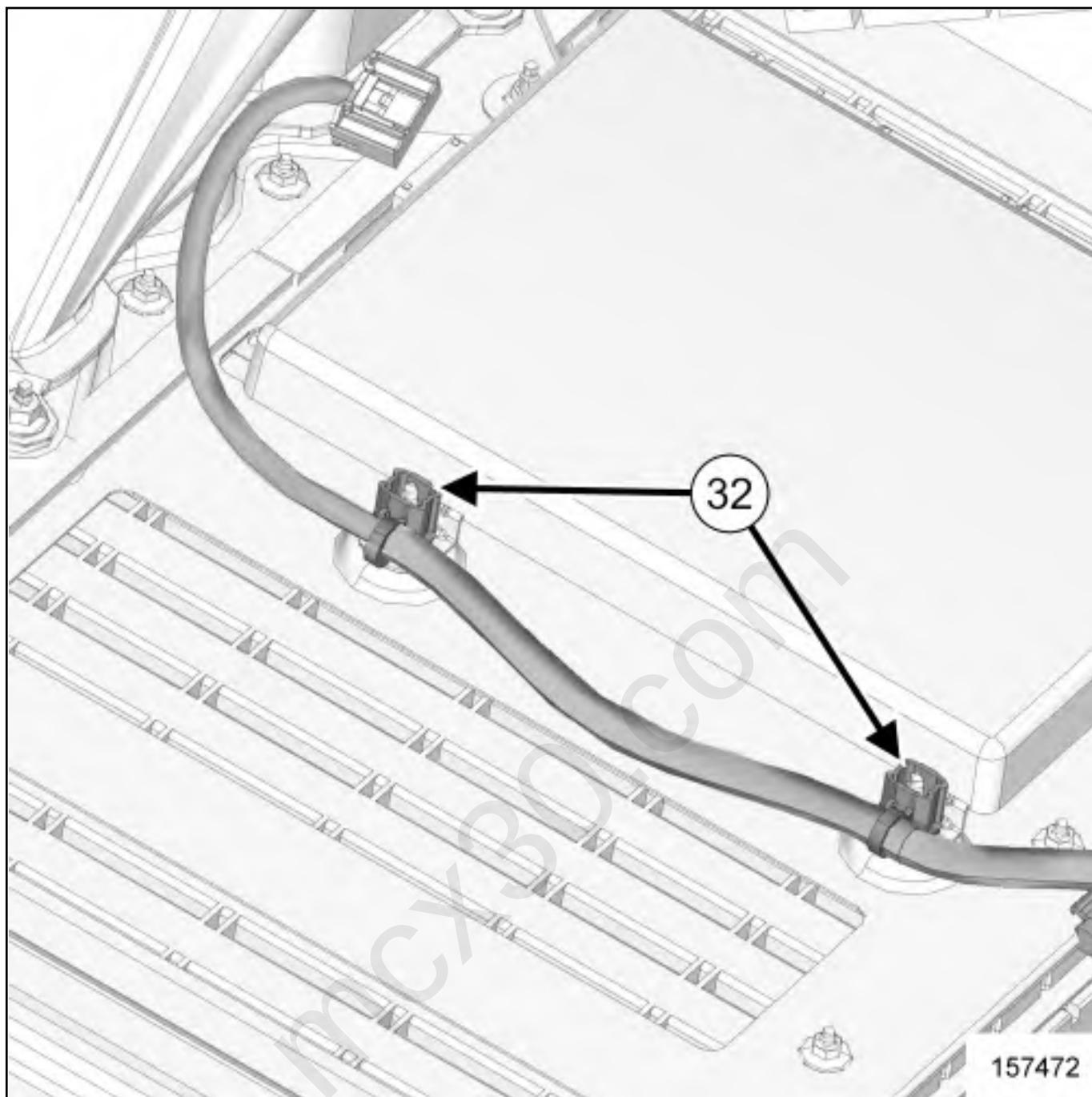


If refitting the original wiring, check the state of the wiring . Replace it in case of damage and analyse the origin. Sensitive zone, rear crash box and rear curve of wiring.

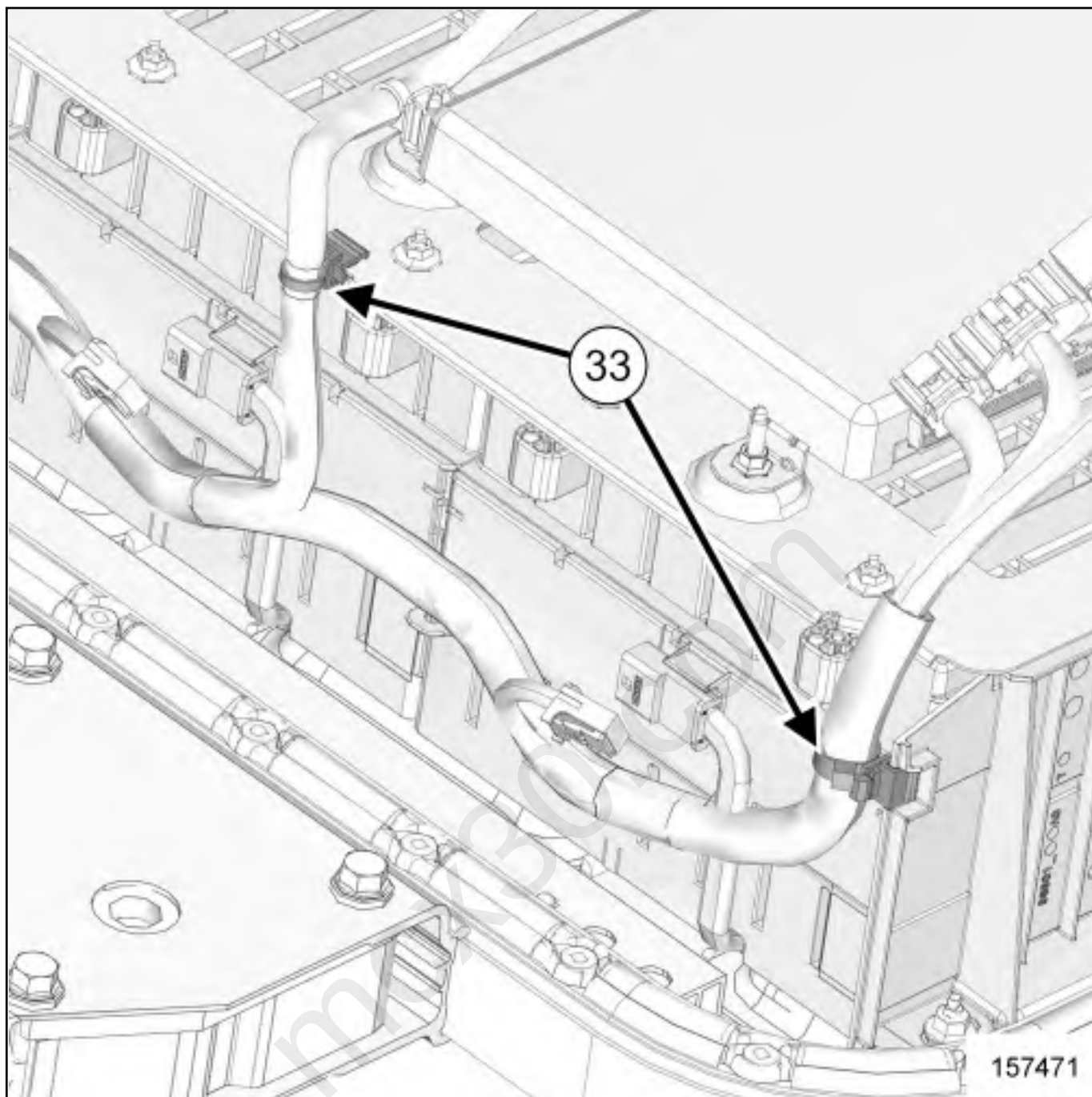


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Refit the low voltage wiring(31) .



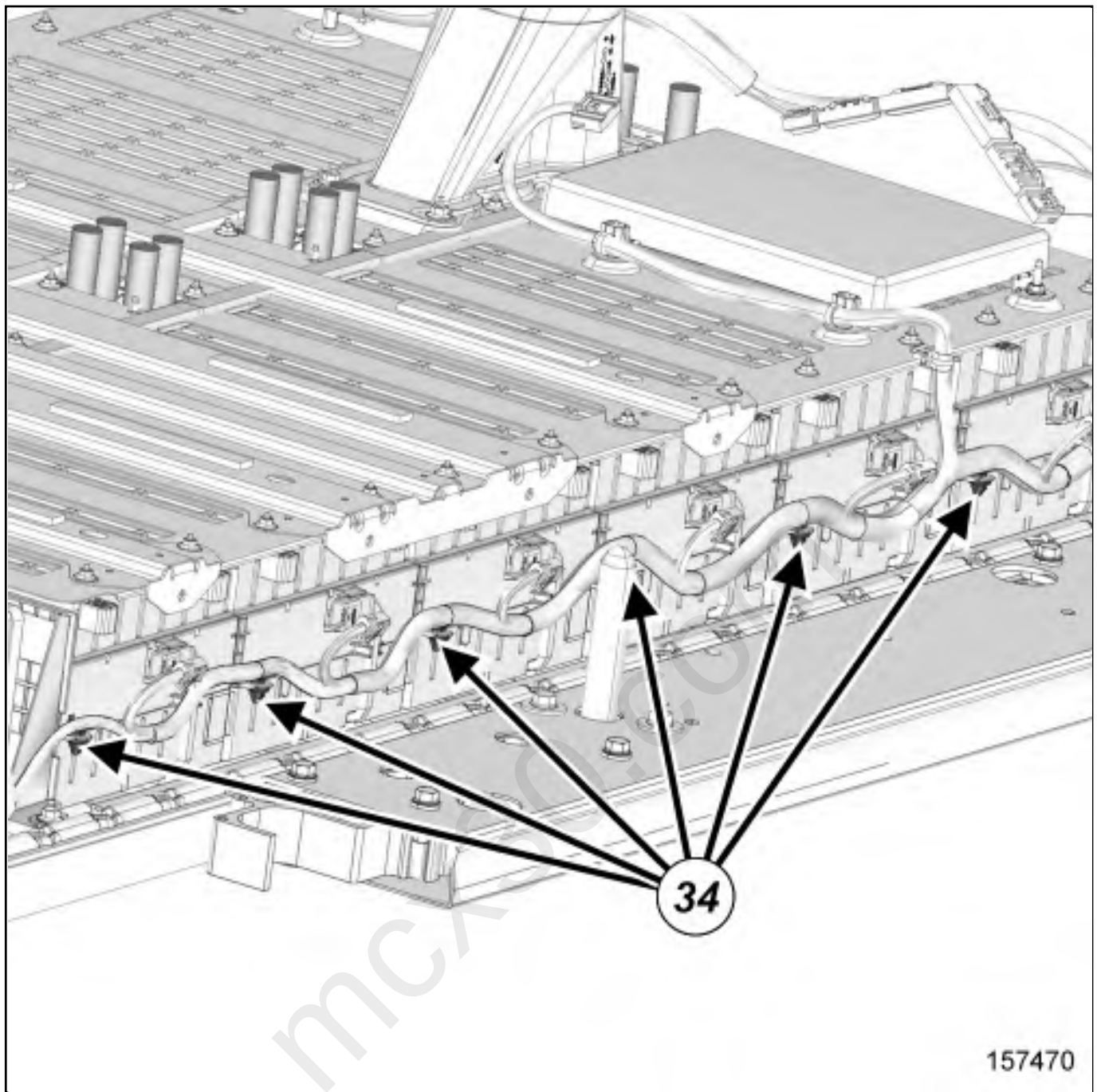
Clip the clips on the stud(32) .



Fit the clamps at the place indicated on the low voltage wiring(33) .

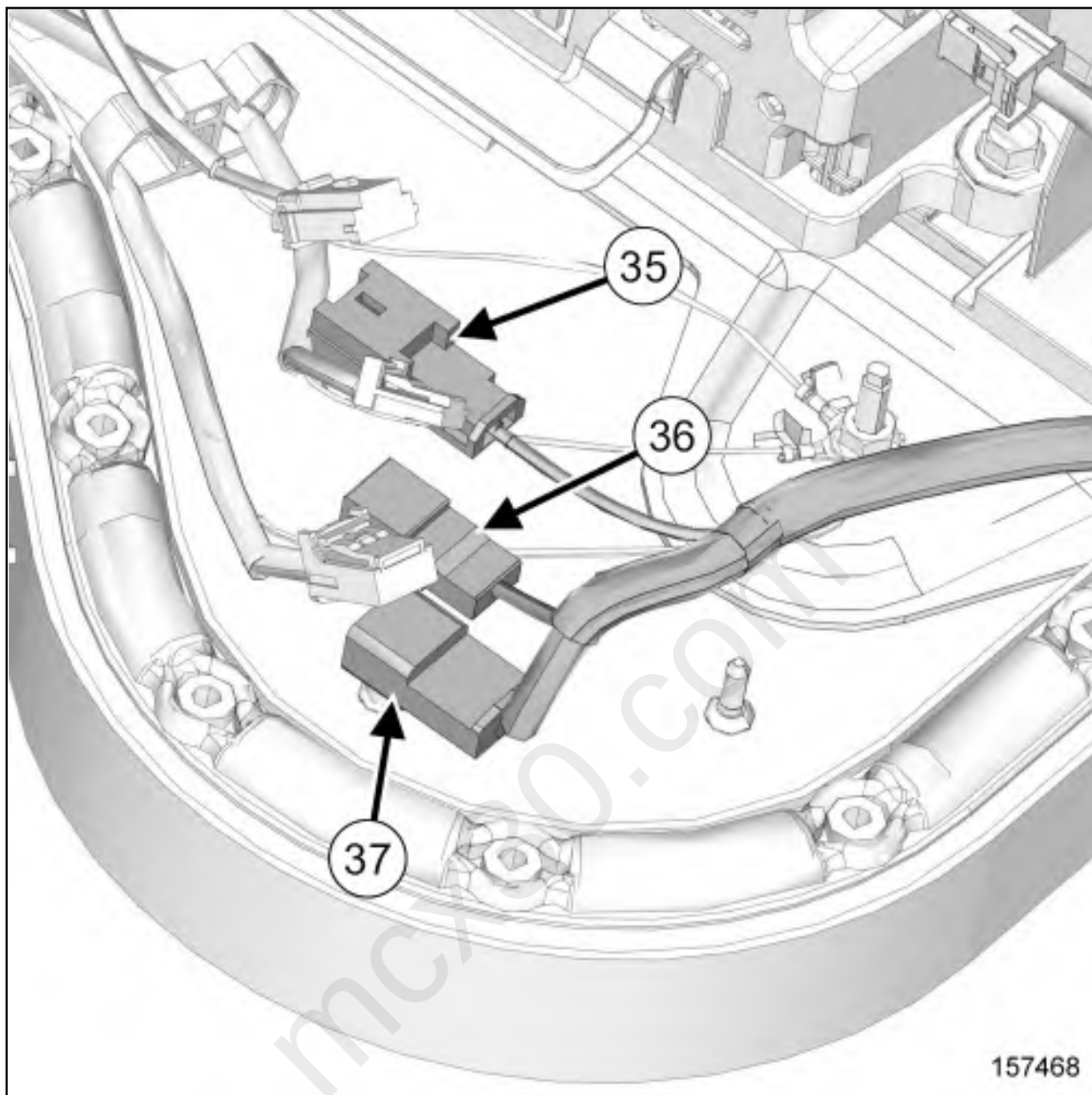
Clip the clamps clip.

Cut the clip clamps using an insulated cutting pliers.



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Clip the clips of the low volage wiring(34) on the modules.



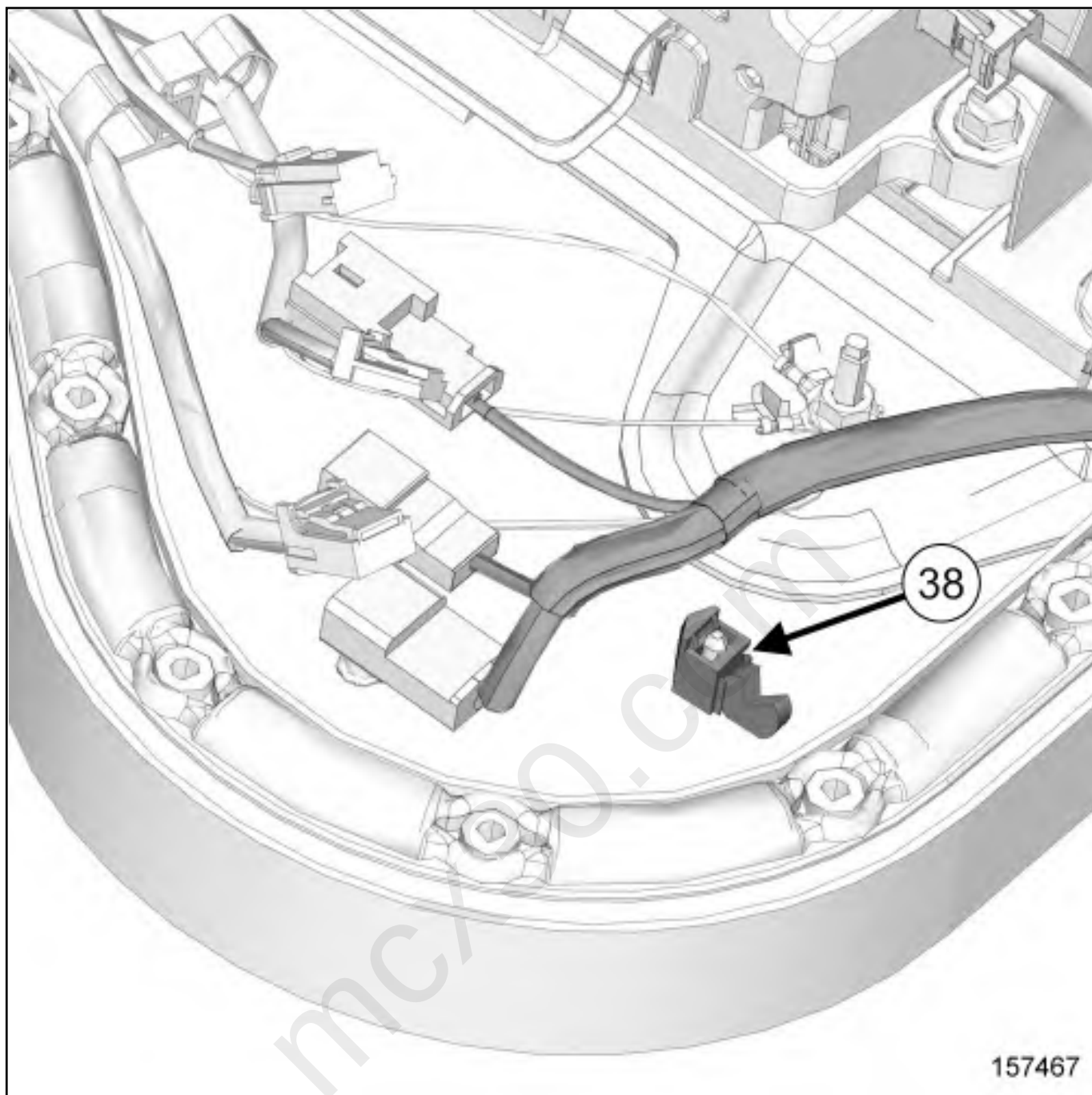
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Clip :

- the safety device switch socket interlock wire socket(35) ,

- the high voltage connector wire socket(36) ,

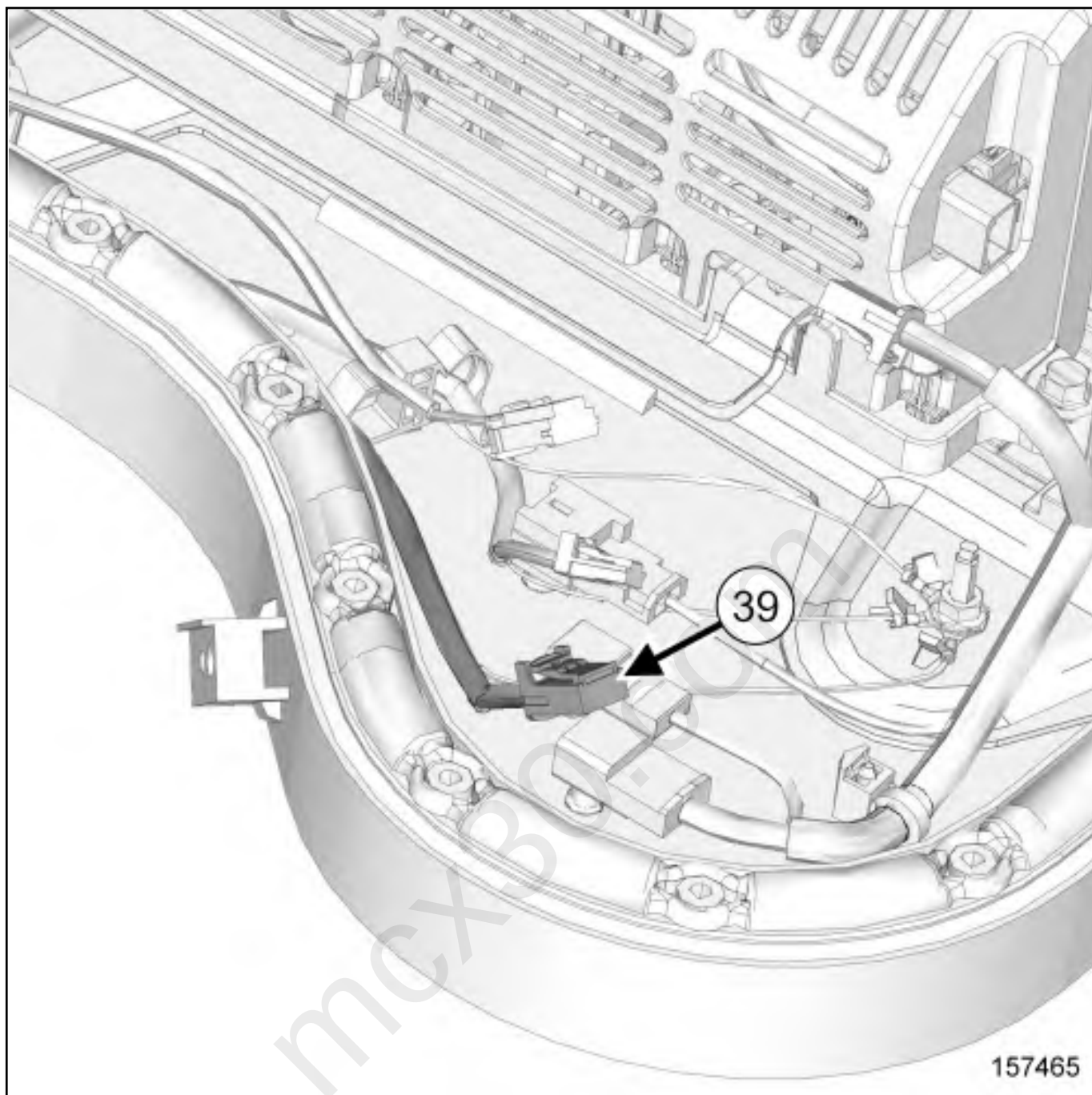
- the low voltage connector wire socket(37) .



Clip the clamp at the place indicated on the low voltage wiring(38) .

Fit the clamp clip.

Cut the clip clamp using an insulated cutting pliers.



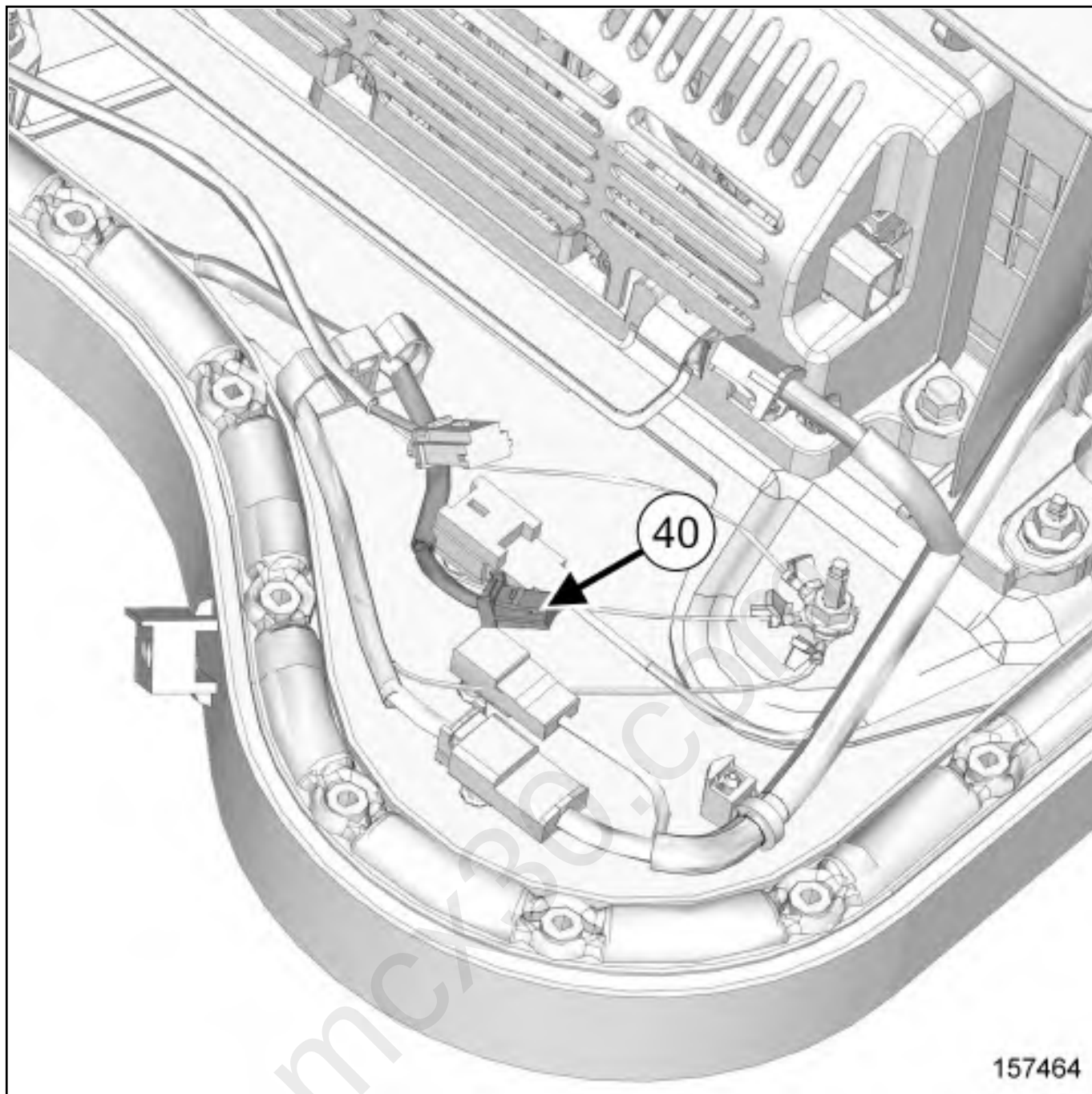
Connect the wiring plug of the low voltage connector(39) .

Note:



Make a push-pull test on the connector.

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

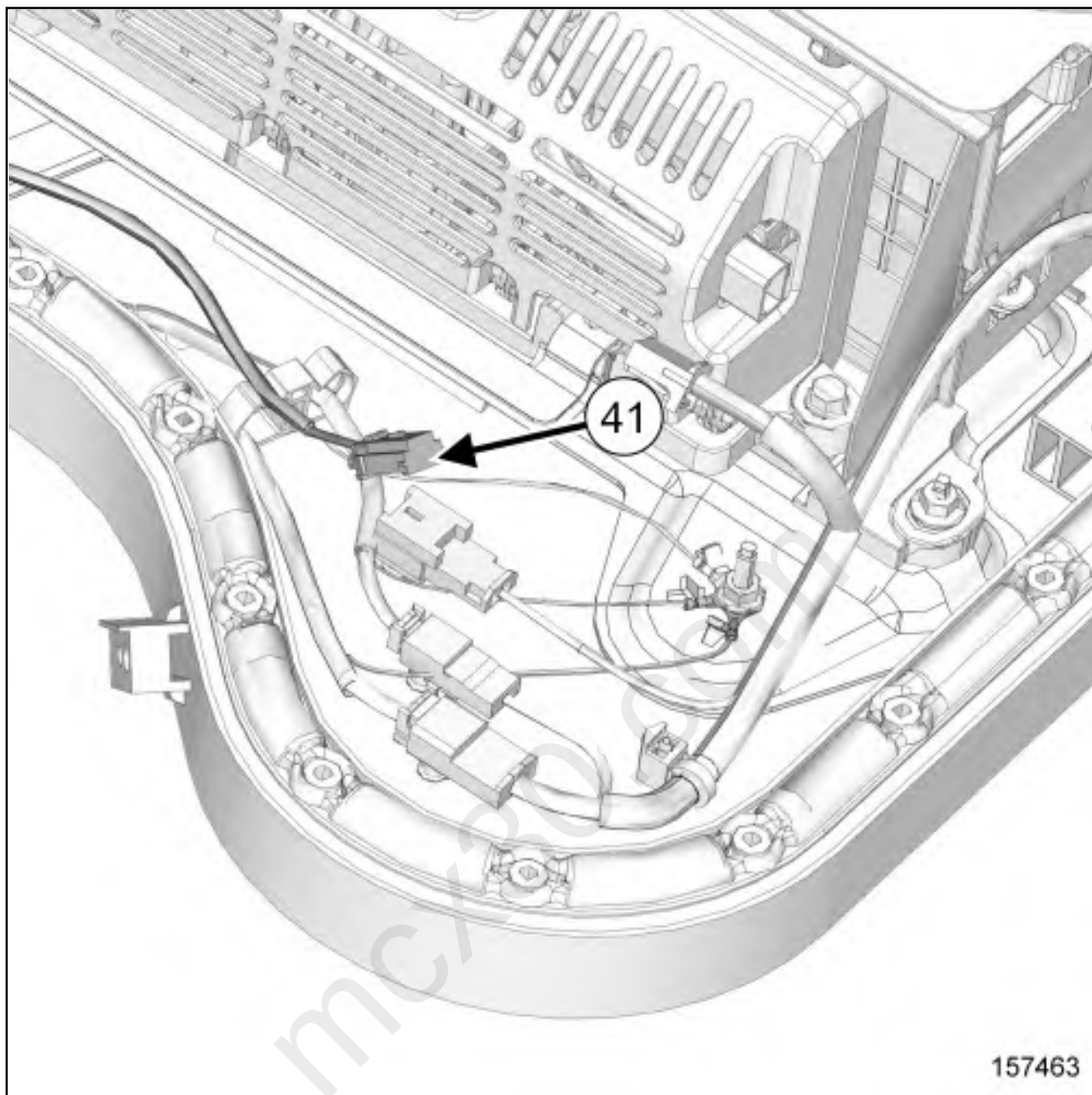


Connect the high voltage connector interlock wiring plug(40) .



Note:

Make a push-pull test on the connector.

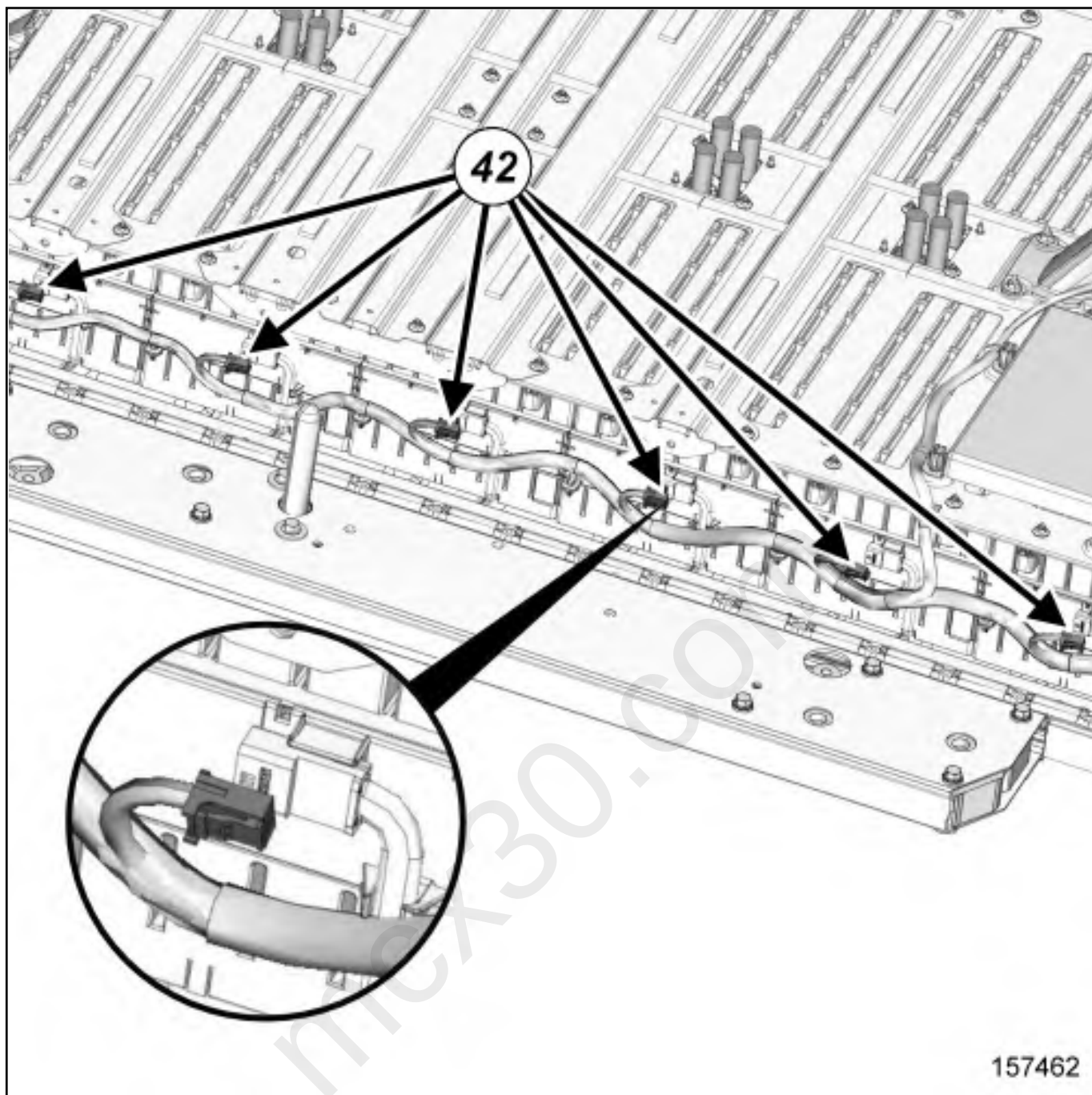


Connect the safety device switch socket interlock wire plug(41) .



Note:

Make a push-pull test on the connector.



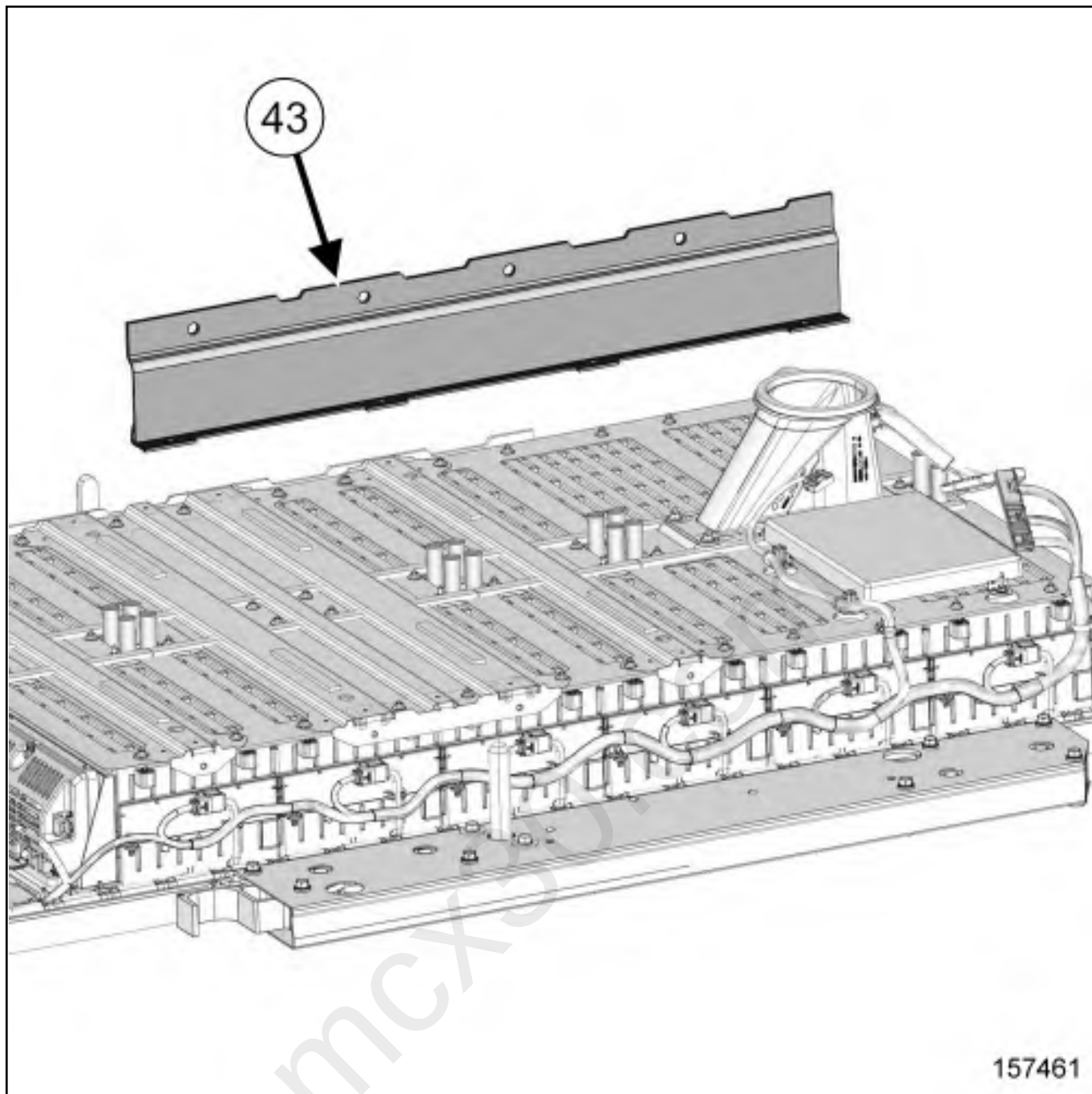
Connect the low voltage wiring plugs(42) on the modules sockets.

Note:



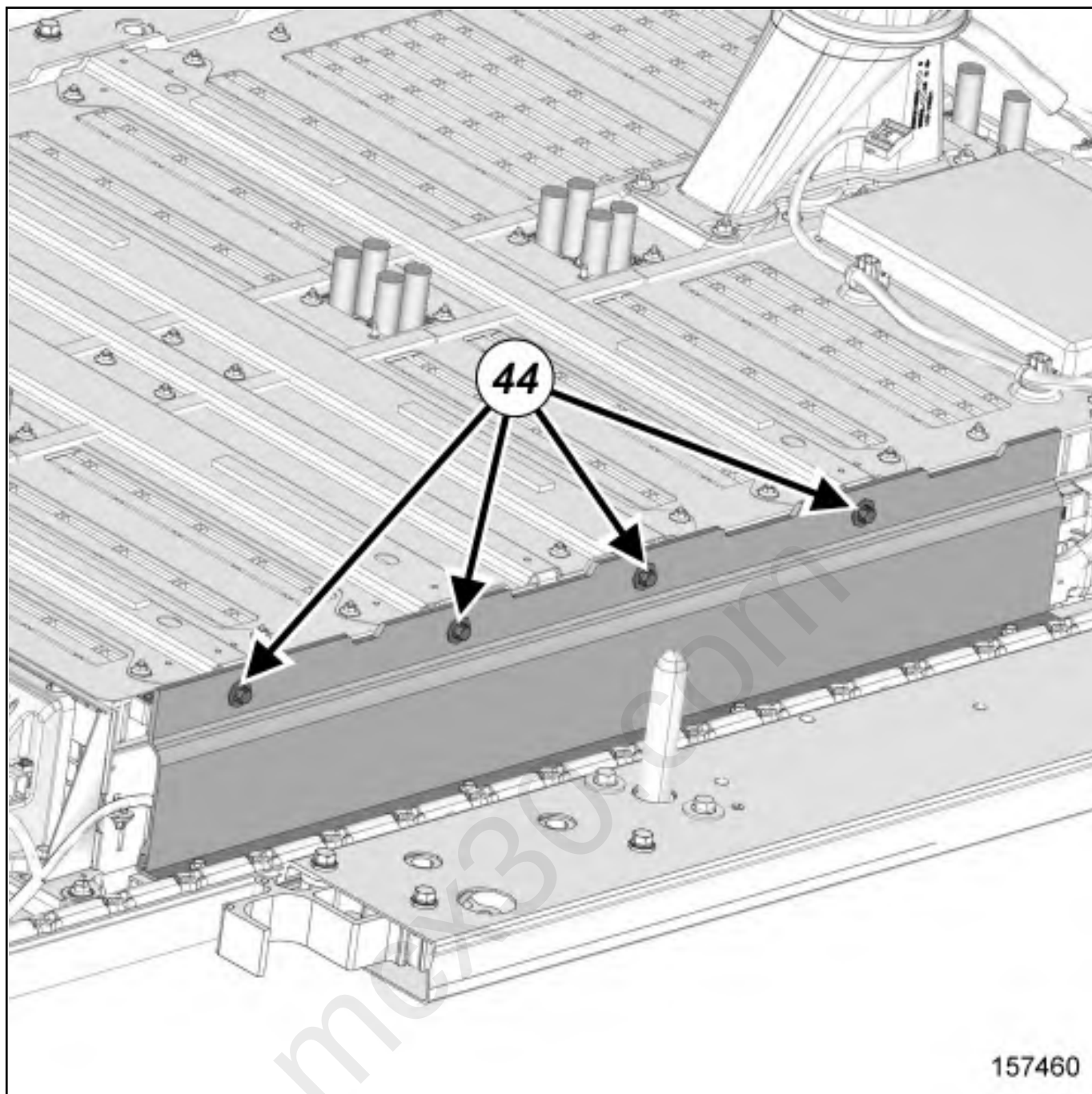
Make a push-pull test on the connector.

Pay attention to the good state of the wiring.



Refit the internal retaining shock left pillar(43) .

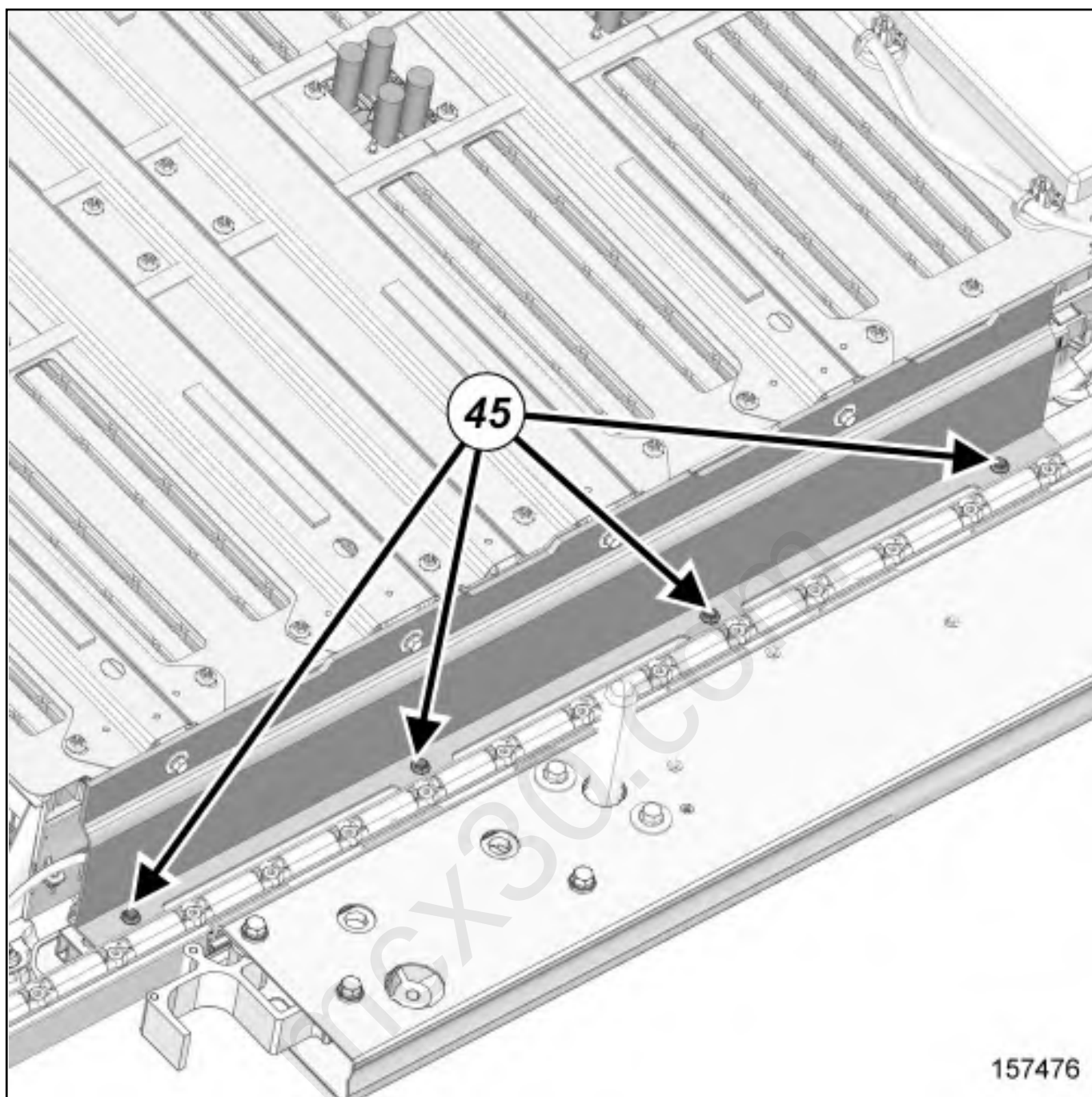
Refit the internal retaining shock pillar screws using an insulated magnetic socket([see 19E, Traction battery, Traction battery module stack assembly : Exploded view](#)) .



Torque tighten the internal retaining shock pillar upper screws(44) using an insulated magnetic socket ([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.



Torque tighten the internal retaining shock pillar lower screws(45) using an insulated magnetic socket ([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.

3. FINAL OPERATION



Proceed in the inverse order to removal.



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XSL version : 3.02 du 22/07/11

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