

TRACTION BATTERY AIR CONDITIONING DISTRIBUTION UNIT : REMOVAL - REFITTING



Note, one or more warnings are present in this procedure



Equipment required
component jack
refrigerant charging station

Locations and specifications (tightening torques, parts to always be replaced, etc.)([see 62D, Traction battery air conditioning, Traction battery air conditioning 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:

- [Air conditioning: Precautions for the repair](#) ,
- [Vehicle: Precautions for the repair](#) .



CAUTION

To prevent moisture from entering the system, place plugs on the cold loop components which are open to the air.



CAUTION

In order to avoid any refrigerant leaks, do not damage (deform, twist, etc.) the pipe.

REMOVAL

1. REMOVAL PREPARATION OPERATION

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

WARNING

DANGER: HIGH VOLTAGE VEHICLE.

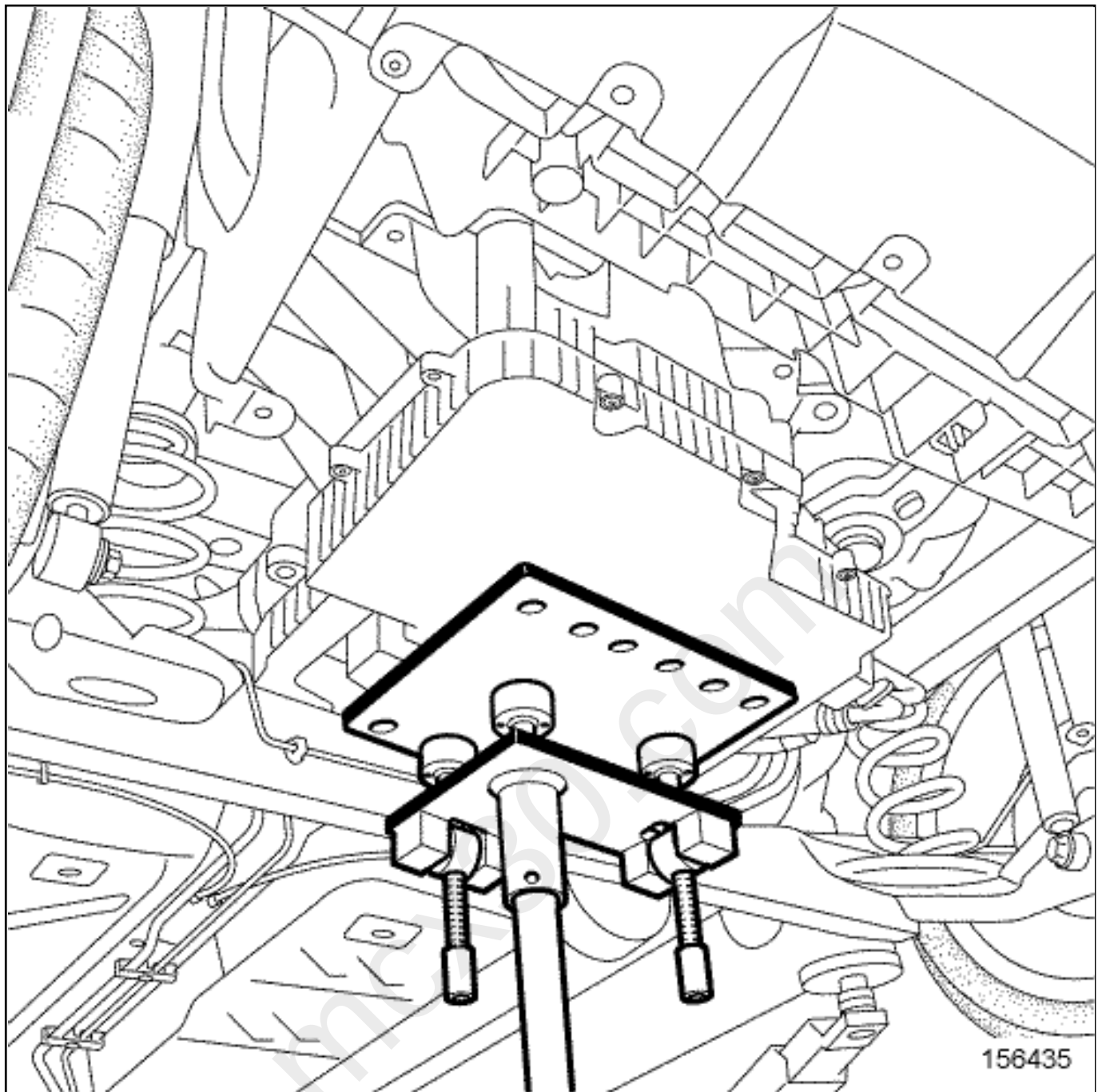


Risks of serious burns or electric shocks that may prove fatal.

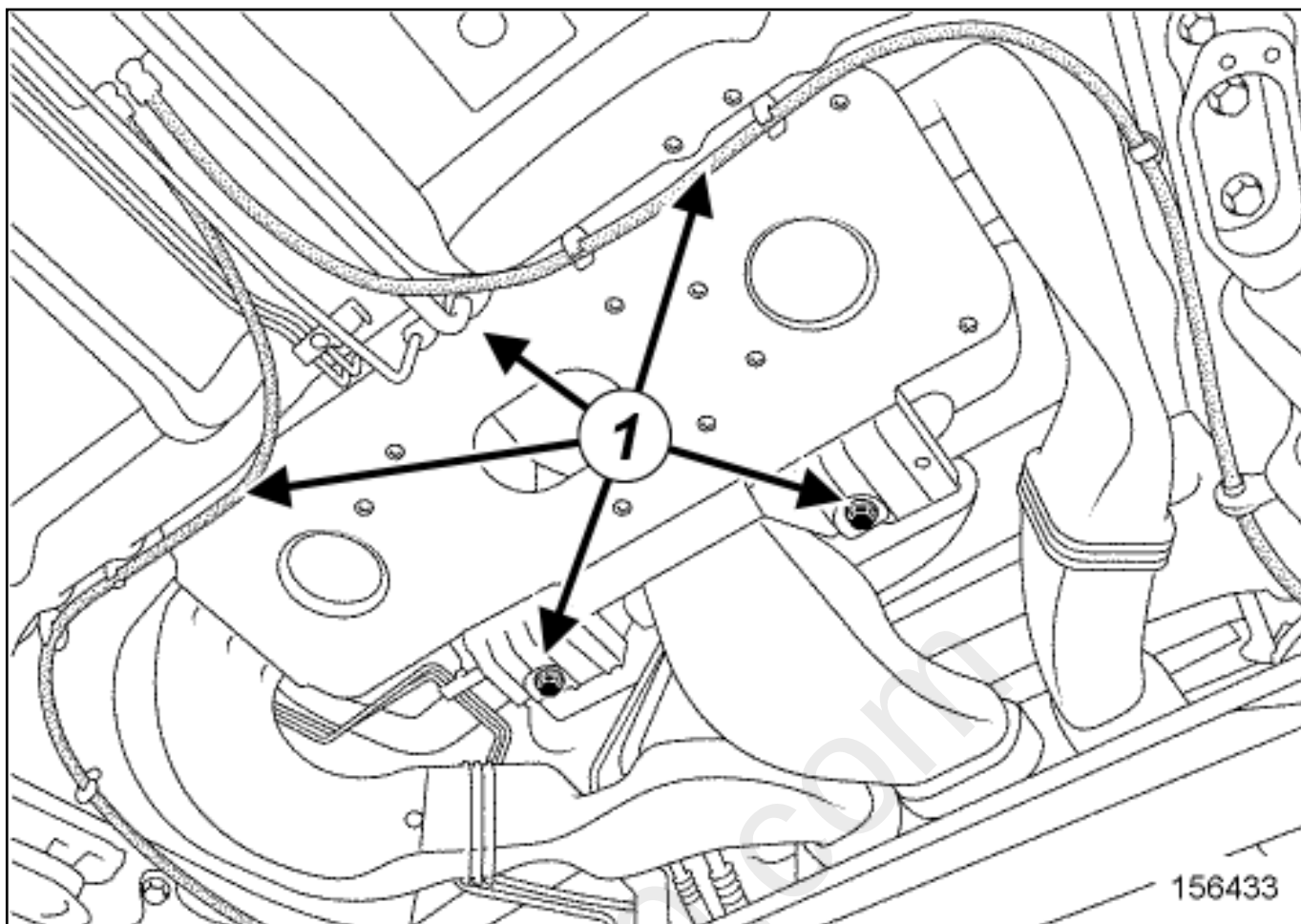
Before carrying out any work on the vehicle, it is essential that you follow the instructions regarding vehicle lockout. This work must be carried out by an employee who is qualified and authorised to work on a high-voltage onboard network [Vehicle: Precautions for the repair](#) .

- Lockout the vehicle [Vehicle: Lockout - Removal of lockout](#) .
- Drain the refrigerant circuit using the refrigerant charging station [Refrigerant circuit: Draining - Filling](#) .
- Remove:
 - the traction battery [Traction battery assembly: Removal - Refitting](#) ,
 - the rear left-hand wheel [Rear hub carrier assembly: Exploded view](#) ,
 - the rear wheel arch liner,
 - the traction battery air conditioning distribution unit undertray bolts,
 - the traction battery air conditioning distribution unit undertray,
 - the "rear intermediate - rear expansion valve" connecting pipes nuts from the rear expansion valve [Passenger compartment cooling assembly: Exploded view](#) ,
 - the "rear intermediate - rear expansion valve" connecting pipes nuts from the centrale intermediate connecting pipe [Passenger compartment cooling assembly: Exploded view](#) .
- Disconnect the "rear intermediate - rear expansion valve" connecting pipes from:
 - the rear expansion valve,
 - the "central intermediate" connecting pipe.
- Unclip the clips from the "central intermediate" connecting pipe.

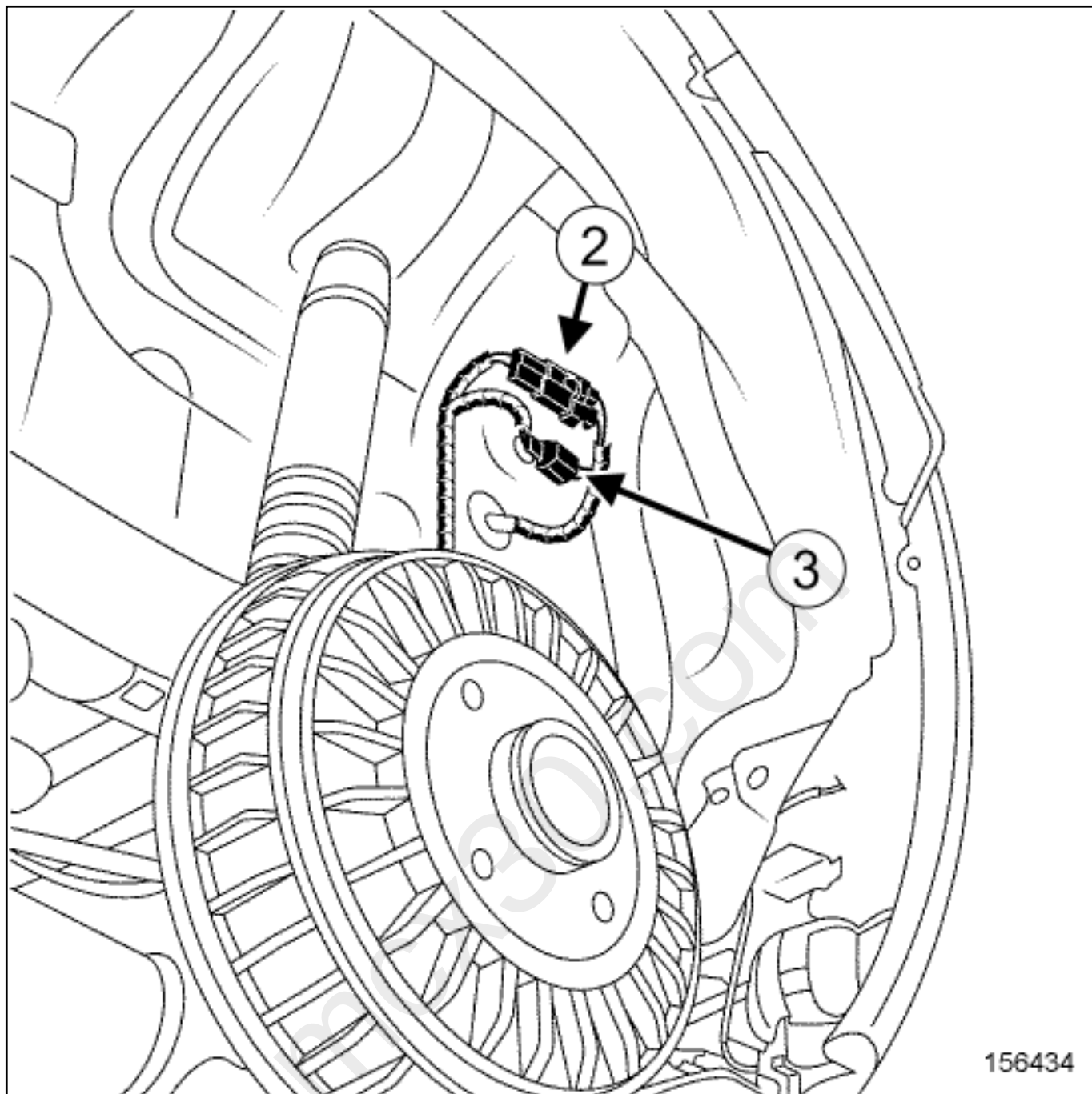
2. REMOVAL OPERATION



- Position a component jack under the traction battery air conditioning distribution unit.
- Remove the traction battery air conditioning distribution unit bolts([see 62D, Traction battery air conditioning, Traction battery air conditioning assembly : Exploded view](#)) .



- Remove traction battery air conditioning air inlet duct support bolts(1) .
- Lower the "traction battery air conditioning air inlet duct support - traction battery air conditioning distribution unit" assembly.
- Remove the traction battery air conditioning air inlet ducts bolts from the traction battery air conditioning distribution unit([see 62D, Traction battery air conditioning, Traction battery air conditioning assembly : Exploded view](#)) .
- Disconnect the traction battery air conditioning air inlet ducts.
- Remove:
 - the traction battery air conditioning air inlet ducts seals([see 62D, Traction battery air conditioning, Traction battery air conditioning assembly : Exploded view](#)) ,
 - the "rear intermediate pipe - rear expansion valve" connecting pipe support bolt from the traction battery air conditioning distribution unit([Passenger compartment cooling assembly: Exploded view](#)) .



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■ Unclip:

- the traction battery air conditioning distribution unit connector(2) ,
- the traction battery air conditioning distribution unit signal connector(3) .

■ Disconnect:

- the traction battery air conditioning distribution unit connector,
- the traction battery air conditioning distribution unit signal connector.

■ Unclip the wiring.

■ Remove the traction battery air conditioning distribution unit.

1. REFITTING PREPARATION OPERATION



CAUTION

Do not remove the blanking plugs from each component until the last moment.

Also, do not remove the components from their packaging until they are to be fitted to the vehicle.



CAUTION

To avoid any leaks, check that the seal and the pipe surface are in good condition. The seal and the surface must be clean and scratch free.

Clean the seals of the refrigerant circuit pipes [Refrigerant circuit pipe seal: Cleaning](#) .

2. REFITTING OPERATION

Proceed in the reverse order to removal.

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

Perform the following operations:

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- refill the refrigerant circuit using the refrigerant charging station [Refrigerant circuit: Draining - Filling](#) ,
- check for leaks [Refrigerant circuit: Check](#) .

Check the air conditioning system is operating correctly [Air conditioning: Check](#) .



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