

# REAR EXPANSION VALVE: REMOVAL - REFITTING



Note, one or more warnings are present in this procedure



## Equipment required

refrigerant charging station

Locations and specifications (tightening torques, parts to always be replaced, etc.) [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:

- [\(see 62A, Air conditioning, Air conditioning: Precautions for the repair\)](#) ,
- [Vehicle: Precautions for the repair](#) .

## REMOVAL

### 1. REMOVAL PREPARATION OPERATION

- Position the vehicle on a two-post lift [Vehicle: Towing and lifting](#) .
- Drain the refrigerant circuit using the refrigerant charging station [\(see 62A, Air conditioning, Refrigerant circuit: Draining - Filling\)](#) .
- Remove:
  - the traction battery air conditioning distribution unit undertray bolts,
  - the traction battery air conditioning distribution unit undertray,
  - the traction battery air conditioning distribution unit lower cover bolts [Traction battery air conditioning assembly : Exploded view](#) .
- Detach the traction battery air conditioning distribution unit lower cover.
- Remove the traction battery air conditioning distribution unit lower cover [Traction battery air conditioning assembly : Exploded view](#) .

### 2. REMOVAL OPERATION

■ Remove the "rear intermediate pipe - rear expansion valve" connecting pipe nuts from the rear expansion valve([see 62A, Air conditioning, Passenger compartment cooling assembly: Exploded view](#)) .

■ Disconnect the "rear intermediate pipe - rear expansion valve" connecting pipe from the rear expansion valve.

■ Unclip [Traction battery air conditioning assembly : Exploded view](#) :

- the clip from the rear evaporator,
- the rear evaporator,
- the rear expansion valve.

## REFITTING

### 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([see 62A, Air conditioning, Refrigerant circuit pipe seal: Cleaning](#)) .

■ Clean using the surface cleaner([Vehicle: Parts and consumables for the repair](#)) the traction battery air conditioning distribution unit lower cover.

### 2. REFITTING OPERATION

■ Proceed in the reverse order to removal.

■ Apply a bead of silicone adhesive sealant([Vehicle: Parts and consumables for the repair](#)) with an approximate diameter of 5 mm on the edge of the traction battery air conditioning distribution unit lower cover to

ensure correct sealing.

■ Proceed in the reverse order to removal.

■ Perform the following operations:

- refill the refrigerant circuit using the refrigerant charging station([see 62A, Air conditioning, Refrigerant circuit: Draining - Filling](#)) ,
- check for leaks([see 62A, Air conditioning, Refrigerant circuit: Check](#)) .

■ Check the air conditioning system is operating correctly([see 62A, Air conditioning, Air conditioning: Check](#)) .



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