

# RENAULT

## 6 Air conditioning

### 61A HEATING

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KOLRM2I/1/1

**X45**

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FEBRUARY 2008

Edition Anglaise

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"The repair methods given by the manufacturer in this document are based on the technical specifications current when it was prepared.

The methods may be modified as a result of changes introduced by the manufacturer in the production of the various component units and accessories from which his vehicles are constructed."

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# KOLEOS - Section 6

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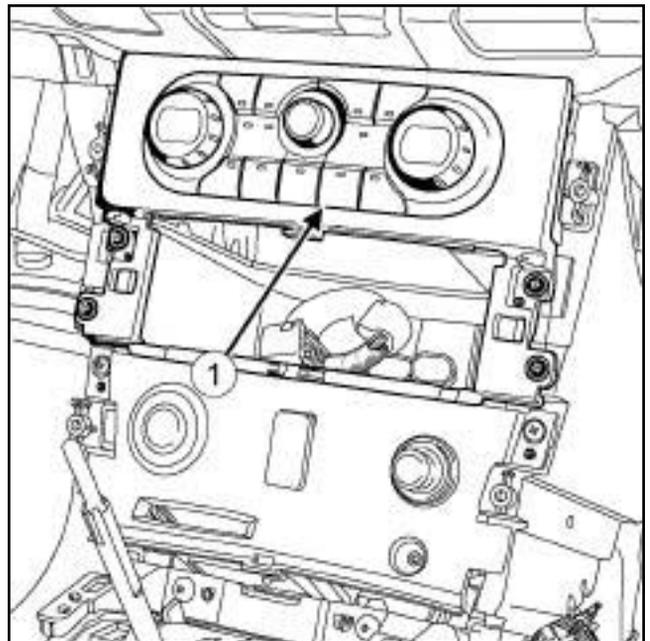
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Heating: List and location of components

LEFT-HAND DRIVE

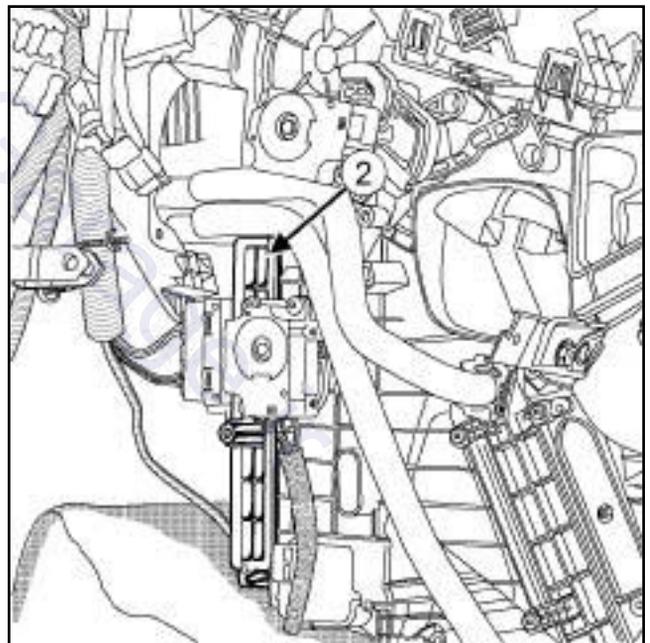
No.	Description
(1)	Control panel
(2)	Cabin filter
(3)	Rear air distribution duct
(4)	Recirculation motor
(5)	Air mixing motor (front passenger side)
(6)	Air mixing motor (driver's side)
(7)	Air distribution motor
(8)	Air distribution unit
(9)	Heater matrix
(10)	Motor-driven fan assembly
(11)	Heater resistance
(12)	Passenger compartment fan assembly control unit (front and rear)
(13)	Front side air distribution duct
(14)	Glove box air duct
(15)	A-pillar air distribution duct
(16)	Front central air distribution duct
(17)	Rear fan assembly

1 - Control Panel



132552

2 - Cabin filter

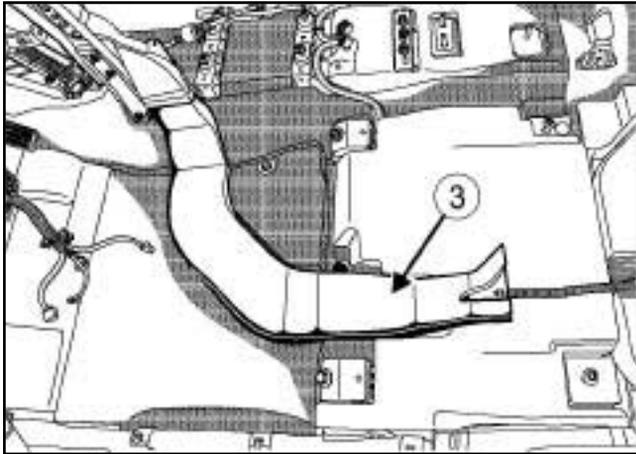


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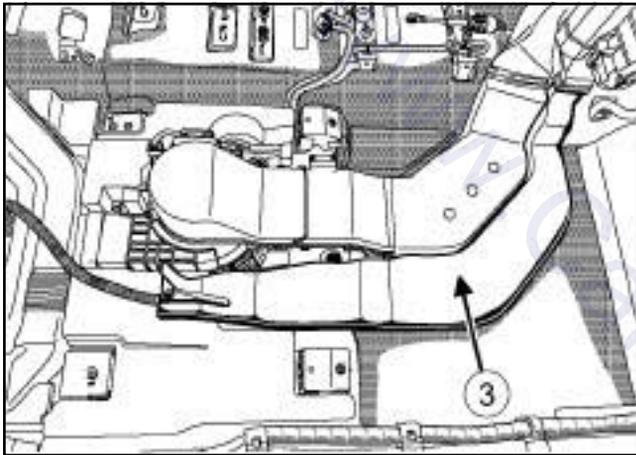
Heating: List and location of components

LEFT-HAND DRIVE

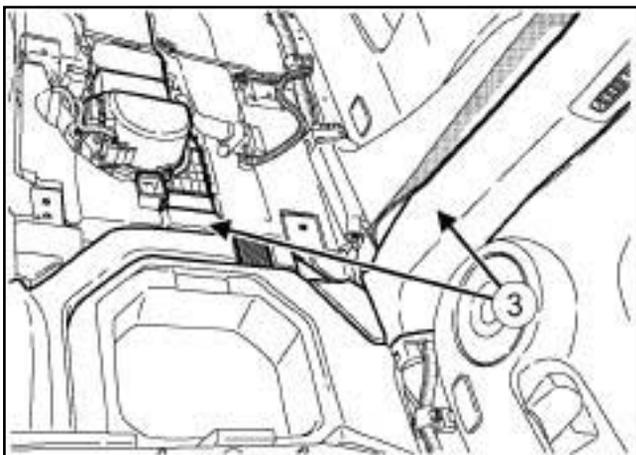
3 - Rear air distribution duct



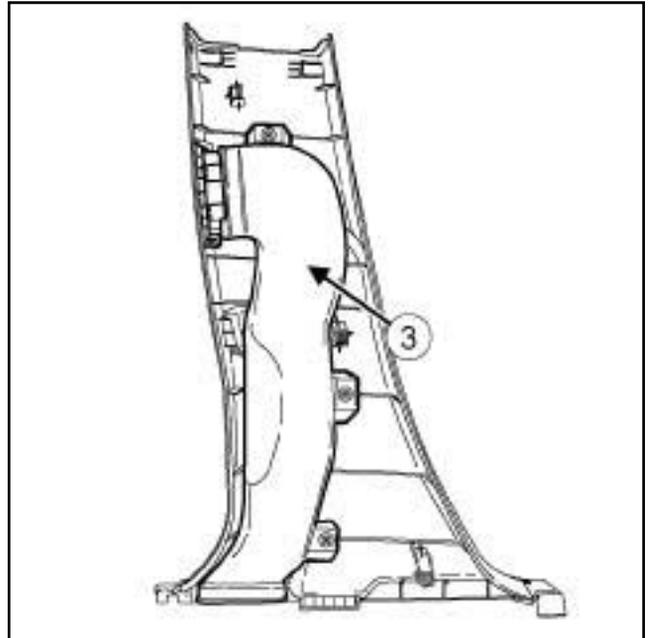
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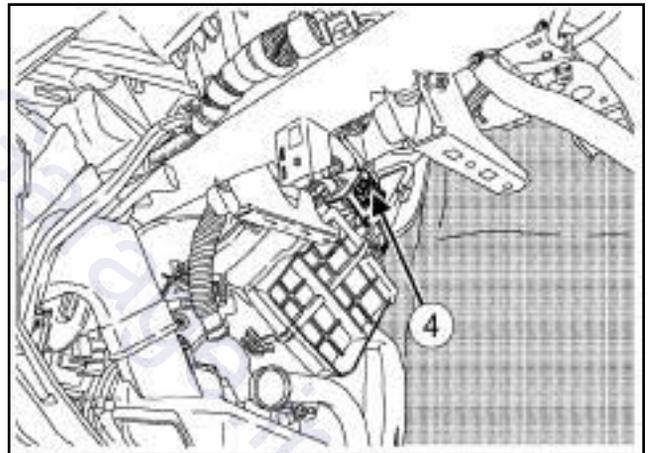


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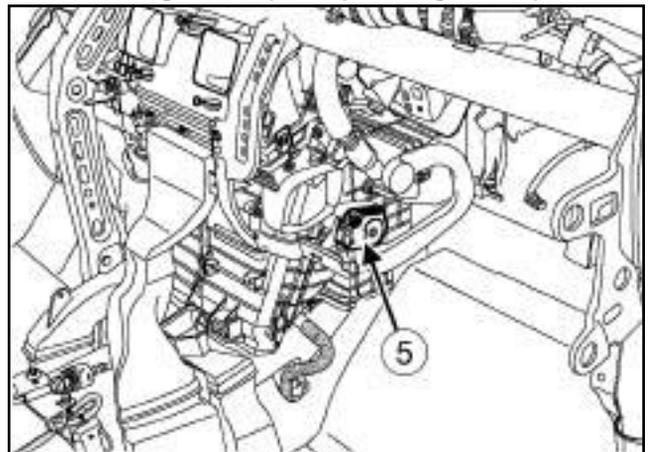
132557

4 - Air recirculation flap motor



132558

5 - Air mixing motor (front passenger side)

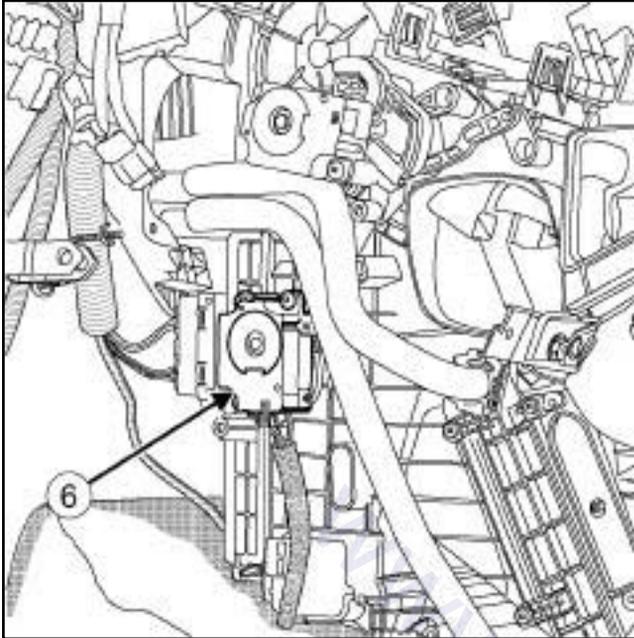


132559

Heating: List and location of components

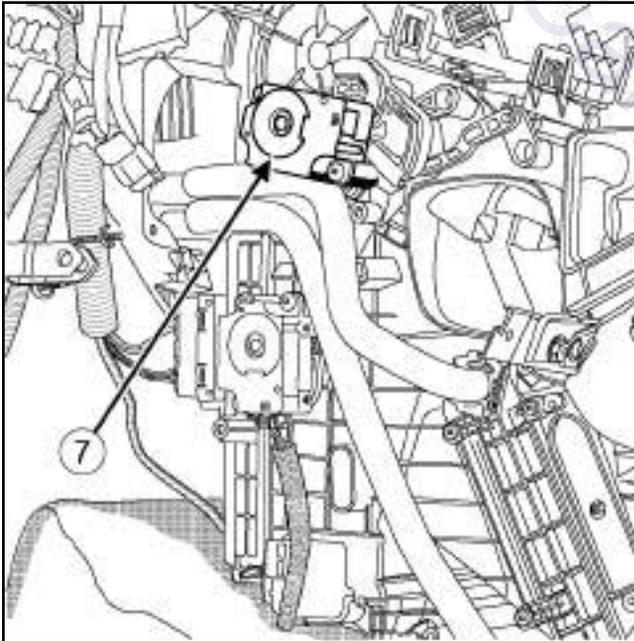
LEFT-HAND DRIVE

6 - Air mixing motor (driver's side)



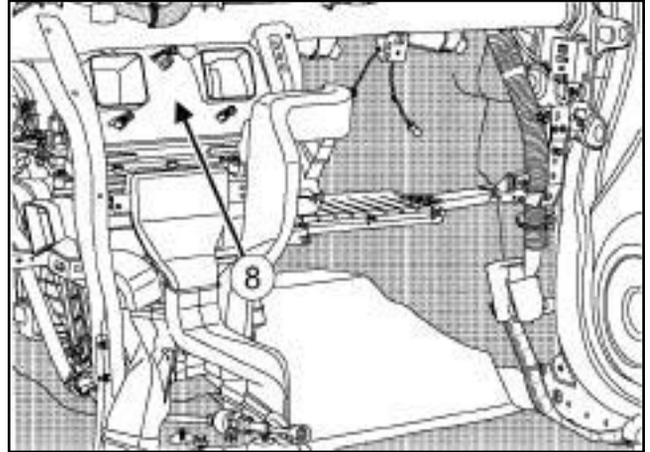
132560

7 - Air distribution flap motor



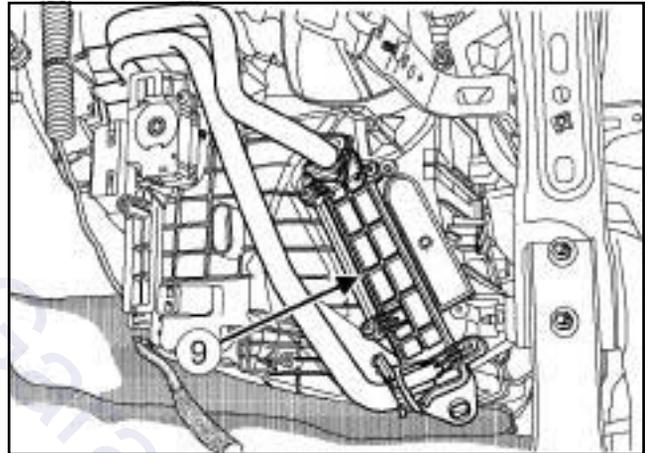
132561

8 - Air distribution unit



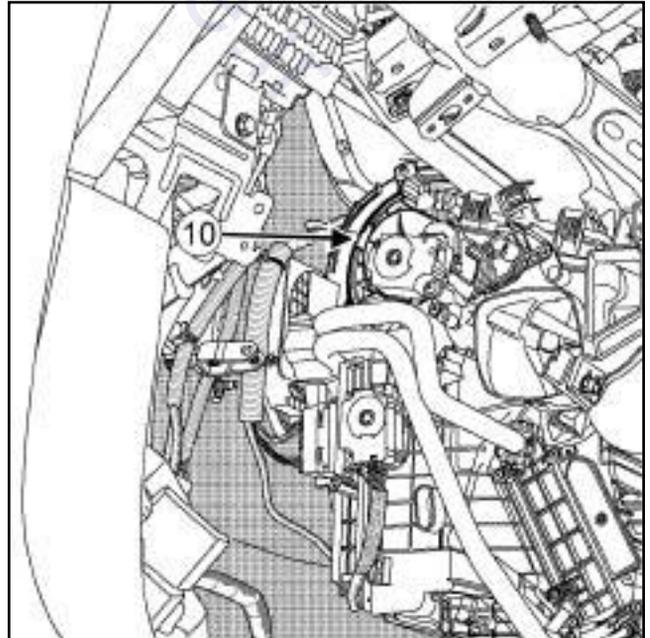
132562

9 - Heater matrix



132563

10 - Fan assembly

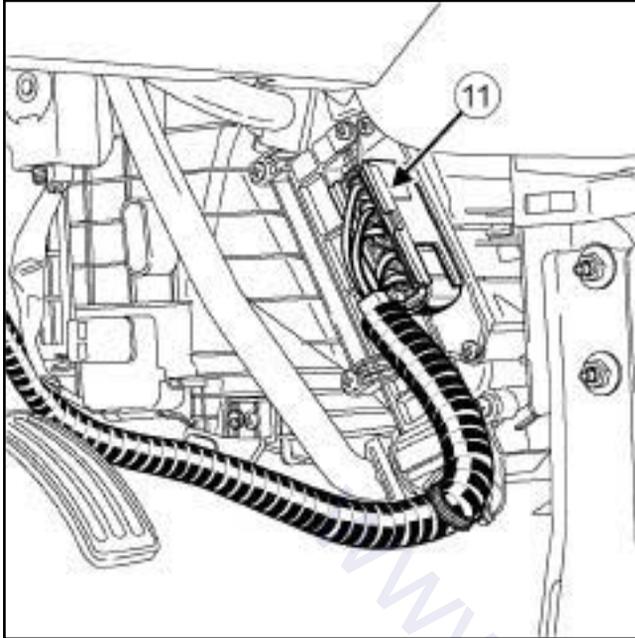


132564

Heating: List and location of components

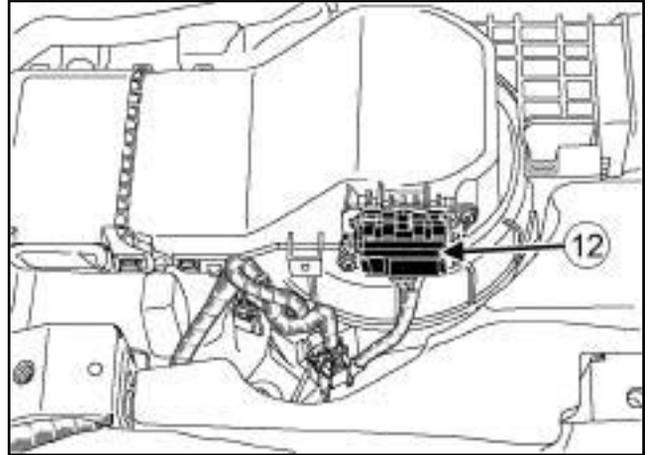
LEFT-HAND DRIVE

11 - Heating resistor



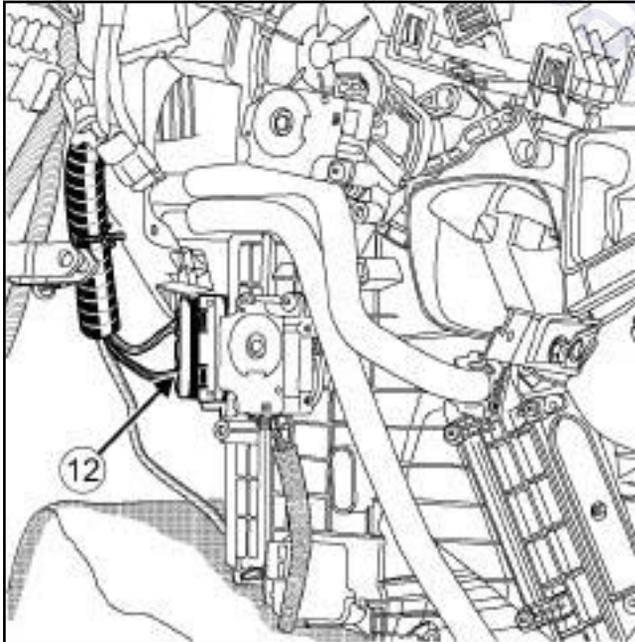
132565

12 - Passenger compartment fan assembly control unit (rear side)



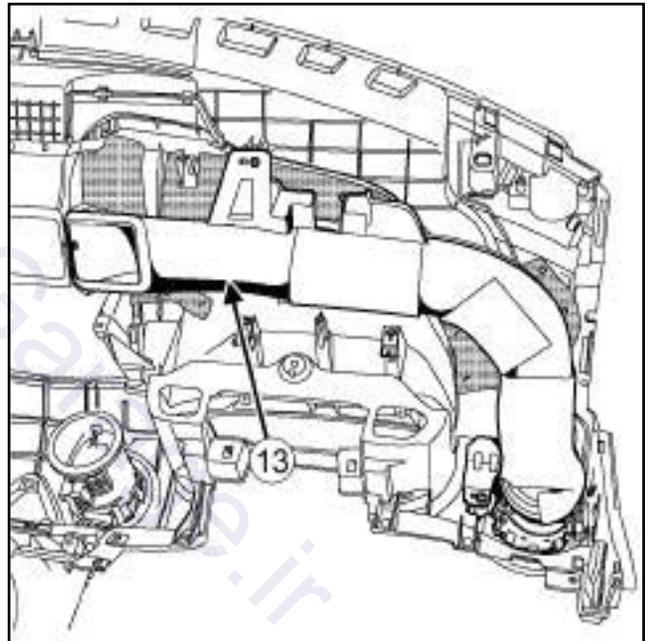
132567

12 - Passenger compartment fan assembly control unit (front side)



132566

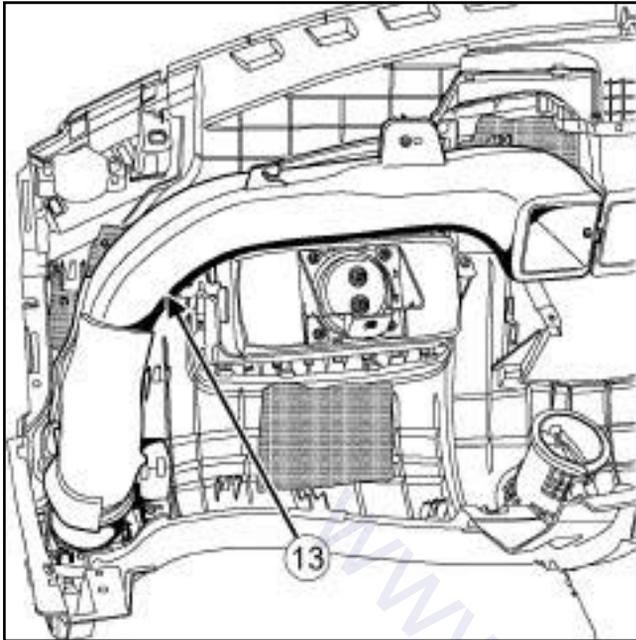
13 - Front side air distribution duct



132568

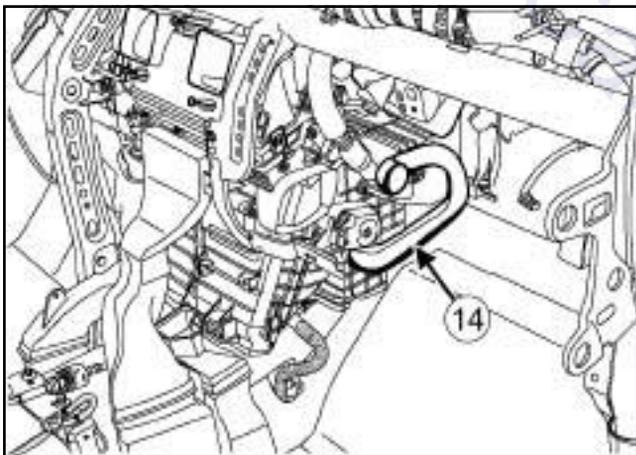
Heating: List and location of components

LEFT-HAND DRIVE



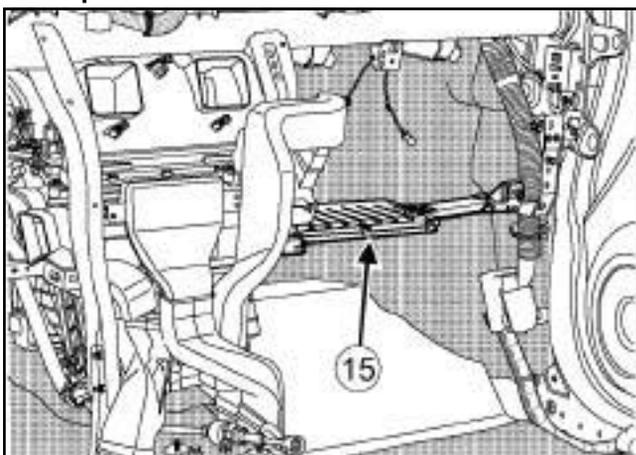
132569

14 - Glove box air duct

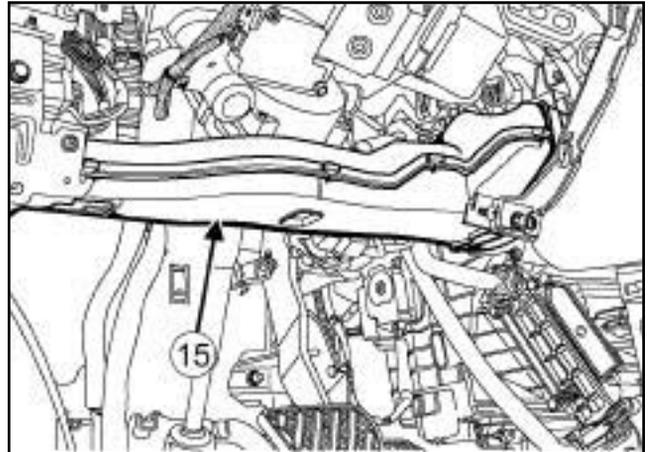


132570

15 - A-pillar air distribution duct

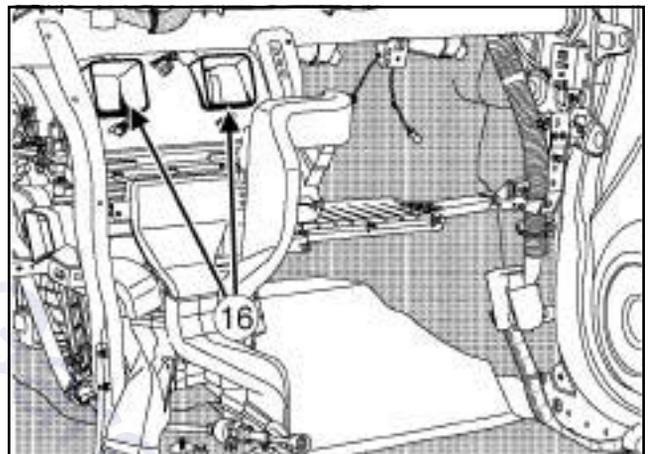


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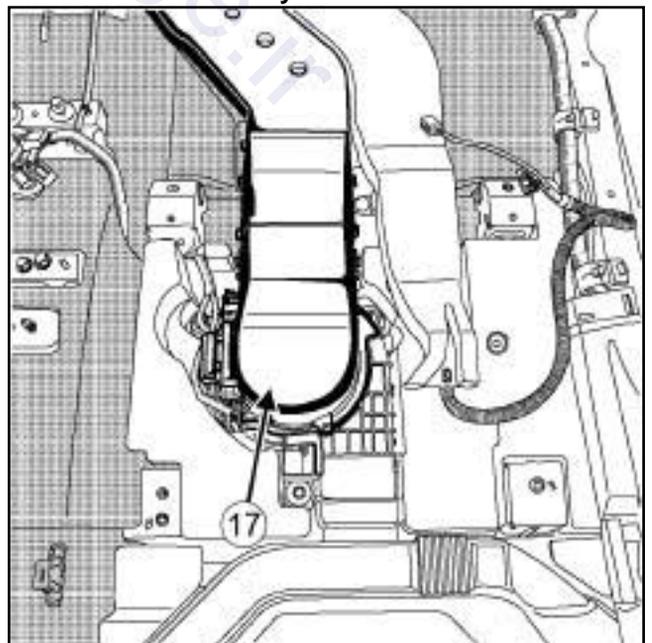
132572

16 - Front central air distribution duct



132573

17 - Rear fan assembly



132574

## Cabin filter: Removal - Refitting

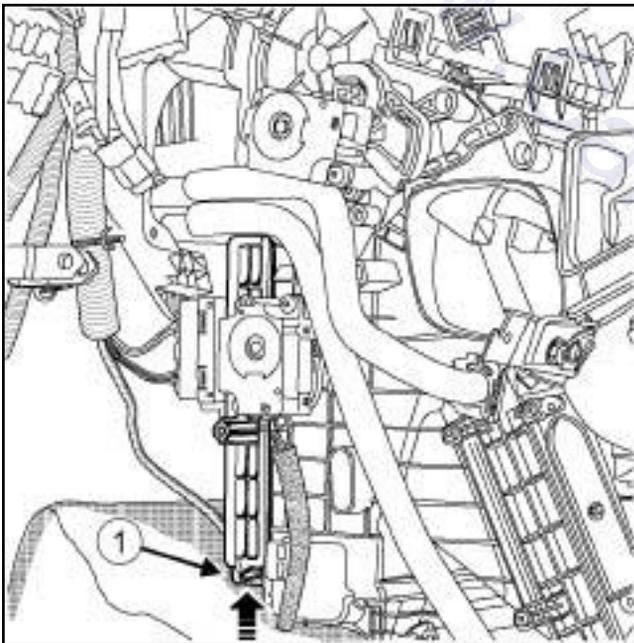
LEFT-HAND DRIVE

## REMOVAL

## I - REMOVAL PREPARATION OPERATION

- Remove:
  - the dashboard lower cover on the driver's side (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
  - the driver's side A-pillar air distribution duct (see **Front air distribution duct: Removal - Refitting**)
  - the lower cover on the left-hand side of the centre panel (see **Dashboard: Removal - Refitting**) (57A, Interior equipment).

## II - OPERATION FOR REMOVAL OF PART CONCERNED



131258

- Unclip the retaining clip (1) .

## Note:

Foreign bodies (leaves, insects etc.) are likely to accumulate in the passenger compartment filter .

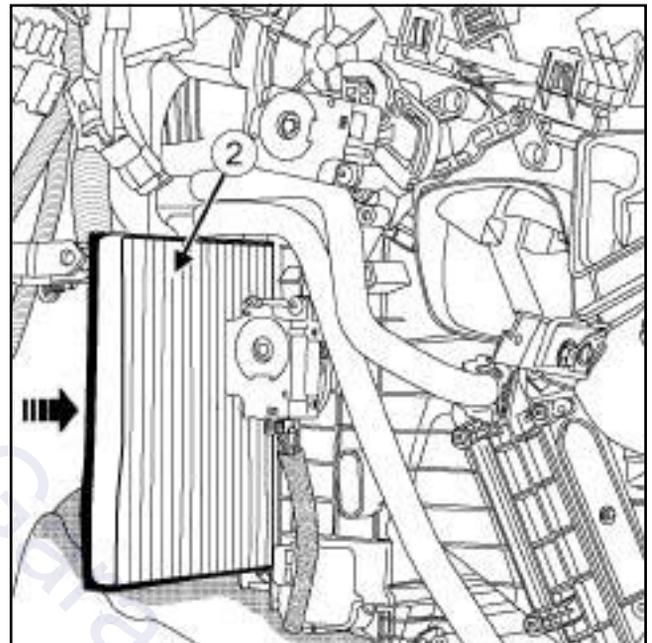
Remove the passenger compartment filter with care to prevent foreign bodies getting into the evaporator.

- Remove:
  - the cabin filter cover,
  - the passenger compartment filter.

## I - REFITTING PREPARATION OPERATION

- Check for foreign bodies in the passenger compartment filter housing, and clean thoroughly if necessary.

## II - REFITTING OPERATION FOR PART CONCERNED



131259

- Refit:
  - the cabin filter (2) ,
  - the passenger compartment filter cover.

- Clip on the retaining clip.

## III - FINAL OPERATION.

- Refit:
  - the lower cover on the left-hand side of the centre panel (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
  - the driver's side A-pillar air distribution duct (see **Front air distribution duct: Removal - Refitting**)
  - the dashboard lower cover on the driver's side (see **Dashboard: Removal - Refitting**) (57A, Interior equipment).

## Rear air distribution duct: Removal - Refitting

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

##### 1 - Rear left-hand air distribution duct

Remove:

- the central console (see **Centre console: Removal - Refitting**) (57A, Interior equipment),
- the driver's seat (see **Complete front seat: Removal - Refitting**) (75A, Front seat frames and seat runners),
- the floor carpet on the driver's side (see **Floor carpet: Removal - Refitting**) (71A, Bodywork interior trim).

##### 2 - Rear right-hand air distribution duct

Remove:

- the central console (see **Centre console: Removal - Refitting**) (57A, Interior equipment),
- the front passenger seat (see **Complete front seat: Removal - Refitting**) (75A, Front seat frames and seat runners),
- the floor carpet on the passenger side (see **Floor carpet: Removal - Refitting**) (71A, Bodywork interior trim).

##### 3 - Rear air distribution duct

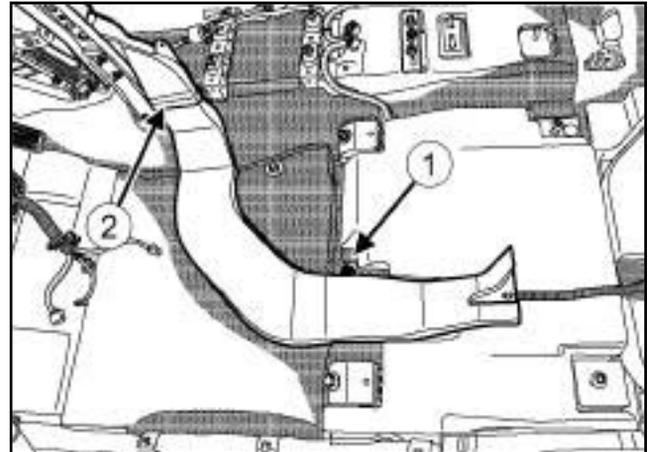
Remove:

- the dashboard (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
- the cab floor lining (see **Cab floor lining: Removal - Refitting**) (71A, Body internal trim),
- the front door sill lining (see **Front door sill lining: Removal - Refitting**) (71A, Body internal trim),
- the rear inner sill trim (see **Rear door sill lining: Removal - Refitting**) (71A, Body internal trim),
- the B-pillar trim (see **B-pillar trim: Removal - Refitting**) (71A, Body internal trim),
- the front seats (see **Complete front seat: Removal - Refitting**) (75A, Front seat frames and seat runners),
- the central console (see **Centre console: Removal - Refitting**) (57A, Interior equipment),
- the rear seat (see **Complete rear seat: Removal - Refitting**) (76A, Rear seat frames and seat runners),

- the floor carpet (see **Floor carpet: Removal - Refitting**) (71A, Body internal trim).

#### II - OPERATION FOR REMOVAL OF PART CONCERNED

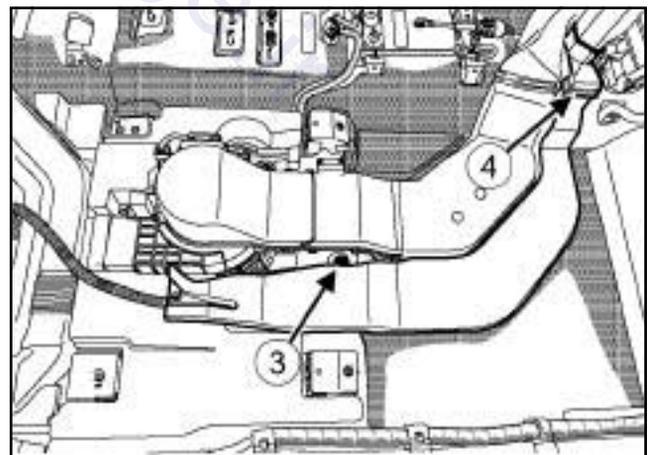
##### 1 - Rear left-hand air distribution duct



131263

- Unclip the retaining clip (1) for the rear left-hand air distribution duct.
- Disconnect the rear left-hand air distribution duct at (2).
- Remove the rear left-hand air distribution duct.

##### 2 - Rear right-hand air distribution duct

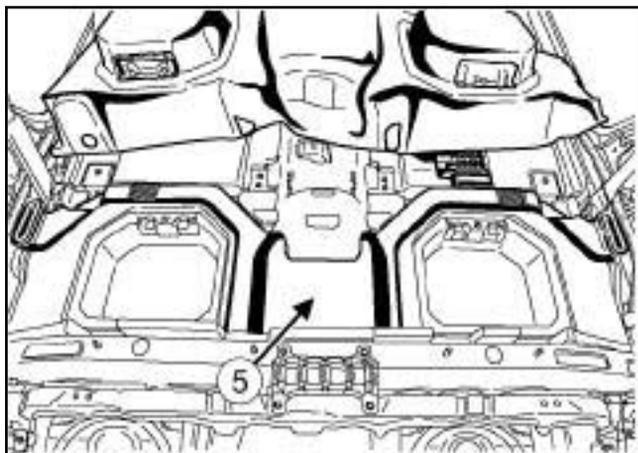


131264

- Unclip the retaining clip (3) for the rear right-hand air distribution duct.
- Disconnect the rear right-hand air distribution duct at (4).
- Remove the rear right-hand air distribution duct.

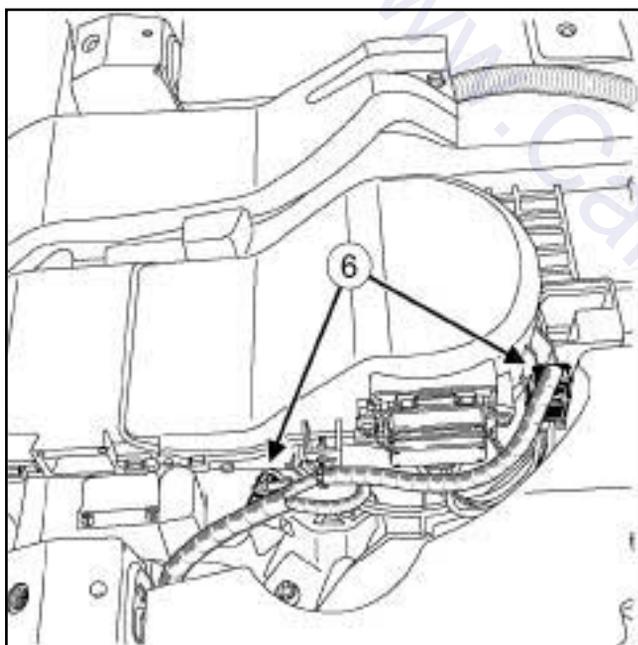
## Rear air distribution duct: Removal - Refitting

### 3 - Rear air distribution duct



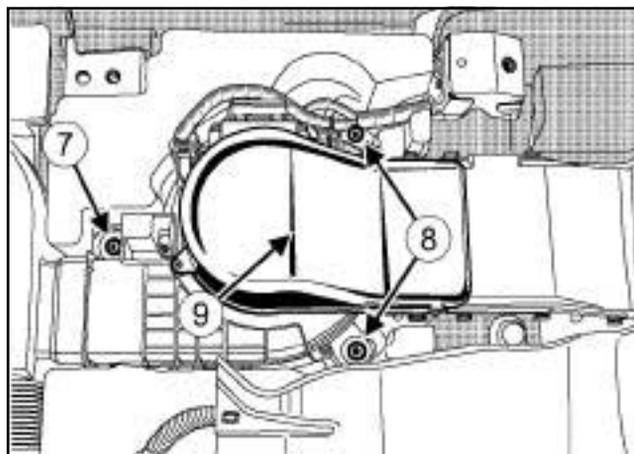
131265

- Remove the rear section of the rear air distribution duct (5) .



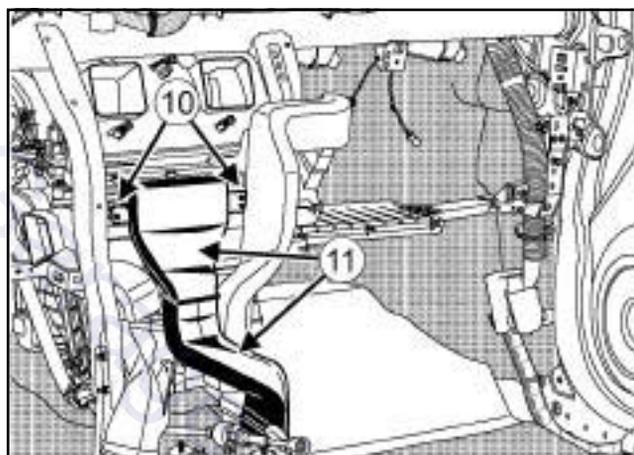
131266

- Disconnect the connectors (6) .



131267

- Remove:
  - the bolt (7) ,
  - the nuts (8) ,
  - the rear blower unit (9) .



131268

- Remove:
  - the bolts (10) ,
  - the front section of the rear air distribution duct (11)

### REFITTING

#### 1 - Rear left-hand air distribution duct

- Refit:
  - the rear left-hand air distribution duct,
  - the retaining clip on the rear left-hand air distribution duct.

## Rear air distribution duct: Removal - Refitting

### 2 - Rear right-hand air distribution duct

Refit:

- the rear right-hand air distribution duct,
- the retaining clip on the rear right-hand air distribution duct.

### 3 - Rear air distribution duct

Refit:

- the front section of the rear air distribution duct,
- the screws for the front section of the rear air distribution duct,
- the rear fan assembly,
- the nuts for the rear fan assembly,
- the screw for the rear fan assembly.

Connect the connectors (6).

Refit the rear section of the rear air distribution duct.

## II - FINAL OPERATION.

### 1 - Rear left-hand air distribution duct

Refit:

- the floor carpet on the driver's side (see **Floor carpet: Removal - Refitting**) (71A, Bodywork interior trim),
- the driver's seat (see **Complete front seat: Removal - Refitting**) (75A, Front seat frames and seat runners),
- the central console (see **Centre console: Removal - Refitting**) (57A, Interior equipment).

### 2 - Rear right-hand air distribution duct

Refit:

- the floor carpet on the passenger side (see **Floor carpet: Removal - Refitting**) (71A, Bodywork interior trim),
- the front passenger seat (see **Complete front seat: Removal - Refitting**) (75A, Front seat frames and seat runners),
- the central console (see **Centre console: Removal - Refitting**) (57A, Interior equipment).

### 3 - Rear air distribution duct

Refit:

- the floor carpet (see **Floor carpet: Removal - Refitting**) (71A, Body internal trim),

- the rear seat (see **Complete rear seat: Removal - Refitting**) (76A, Rear seat frames and seat runners),
- the central console (see **Centre console: Removal - Refitting**) (57A, Interior equipment),
- the front seats (see **Complete front seat: Removal - Refitting**) (75A, Front seat frames and seat runners),
- the B-pillar trim (see **B-pillar trim: Removal - Refitting**) (71A, Body internal trim),
- the rear inner sill trim (see **Rear door sill lining: Removal - Refitting**) (71A, Body internal trim),
- the front door sill lining (see **Front door sill lining: Removal - Refitting**) (71A, Body internal trim),
- the cab floor lining (see **Cab floor lining: Removal - Refitting**) (71A, Body internal trim),
- the dashboard (see **Dashboard: Removal - Refitting**) (57A, Interior equipment).

## Air distribution cable: Removal - Refitting

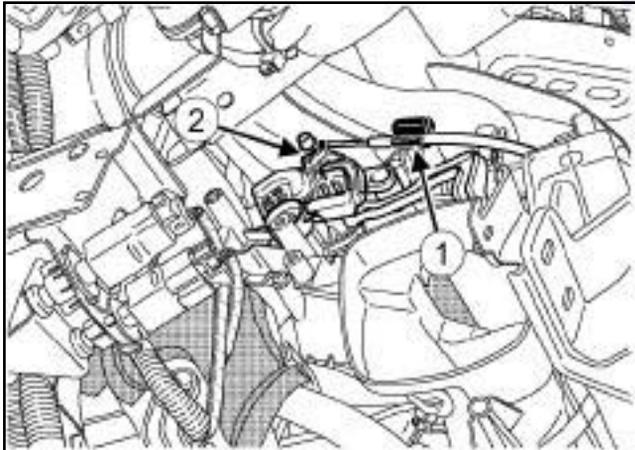
LEFT-HAND DRIVE

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

- Remove:
  - the dashboard lower cover on the driver's side (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
  - the driver's side A-pillar air distribution duct (see **Front air distribution duct: Removal - Refitting**)
  - the CD changer (see **CD changer: Removal - Refitting**) (86A, Radio),
  - the radio (see **Car radio: Removal - Refitting**) (86A, Radio),
  - the left-hand side trim on the centre panel (see **Dashboard: Removal - Refitting**) (57A, Interior equipment).

#### II - OPERATION FOR REMOVAL OF PART CONCERNED



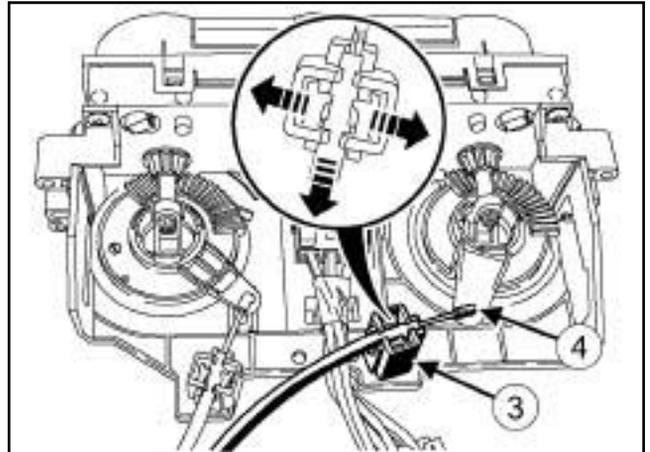
131151

- Unclip the air distribution unit cable sleeve stop (1) .
- Remove:
  - the air distribution flap seal (2) ,
  - the air distribution control cable on the air distribution unit.

Note:

Note the route of the air distribution control cable.

- Remove the control panel (see **61A, Heating, Control panel: Removal - Refitting**, page 61A-48) .



131152

- Unclip the sleeve stop at (3) .
- Remove the seal (4) .
- Remove the air distribution control cable on the control panel.

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

- Refit the air distribution control cable on the control panel.
- Refit the seal (4) .
- Clip the sleeve stop at (3) .
- Refit:
  - the control panel (see **61A, Heating, Control panel: Removal - Refitting**, page 61A-48) ,
  - the air distribution control cable to the air distribution unit,
  - the seal to the air distribution flap.
- Clip the sleeve stop onto the distribution unit.

#### II - FINAL OPERATION.

- Refit:
  - the left-hand side trim on the centre panel (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
  - the radio (see **Car radio: Removal - Refitting**) (86A, Radio),
  - the CD changer (see **CD changer: Removal - Refitting**) (86A, Radio),

## Air distribution cable: Removal - Refitting

### LEFT-HAND DRIVE

- the driver's side A-pillar air distribution duct (see **Front air distribution duct: Removal - Refitting**) ,
- the dashboard lower cover on the driver's side (see **Dashboard: Removal - Refitting**) (57A, Interior equipment).

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## Air mixing cable: Removal - Refitting

LEFT-HAND DRIVE

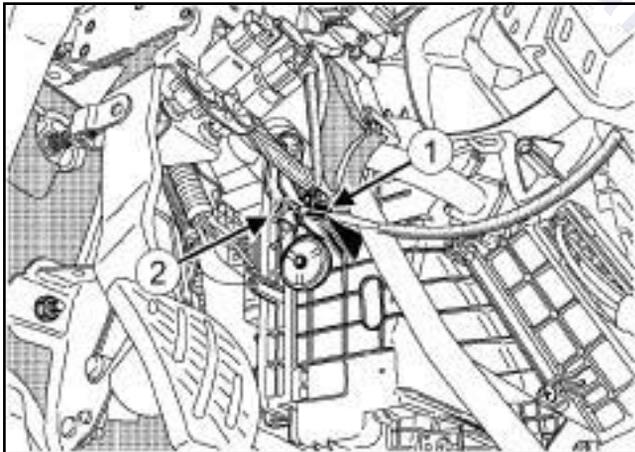
### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

❑ Remove:

- the bottom cover (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
- the dashboard lower cover (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
- the A pillar air distribution duct (see **Front air distribution duct: Removal - Refitting**) ,
- the CD changer (see **CD changer: Removal - Refitting**) (86A, Radio),
- the radio (see **Car radio: Removal - Refitting**) (86A, Radio),
- the front panel side trim (see **Dashboard: Removal - Refitting**) (57A, Interior equipment).

#### II - OPERATION FOR REMOVAL OF PART CONCERNED



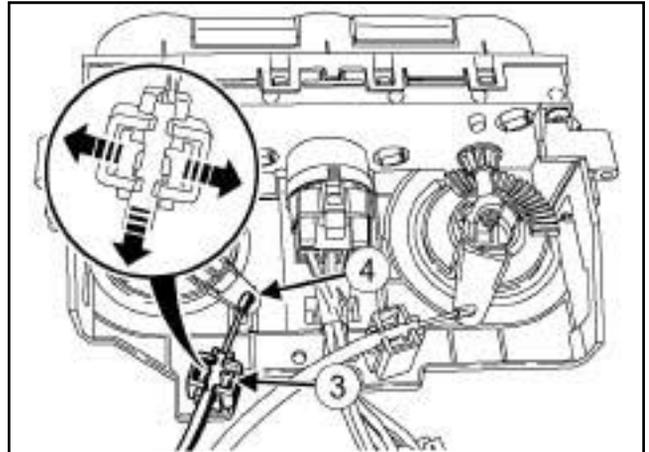
131155

- ❑ Unclip the cable sleeve stop (1) from the distribution unit.
- ❑ Remove:
  - the mixer flap seal (2) ,
  - the air mixer flap control cable on the air distribution unit.

Note:

Note the route of the air mixing control cable.

- ❑ Remove the control panel (see **61A, Heating, Control panel: Removal - Refitting**, page 61A-48) .

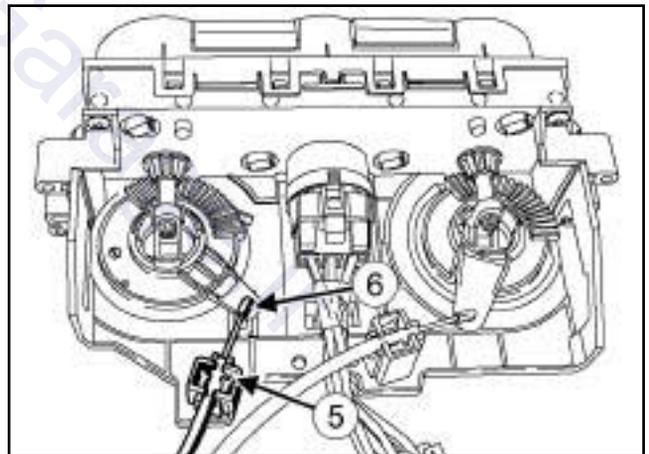


131156

- ❑ Unclip the sheath stop (3) .
- ❑ Remove the seal (4) .
- ❑ Remove the air mixing control cable on the control panel.

### REFITTING

#### I - REFITTING OPERATION FOR PART

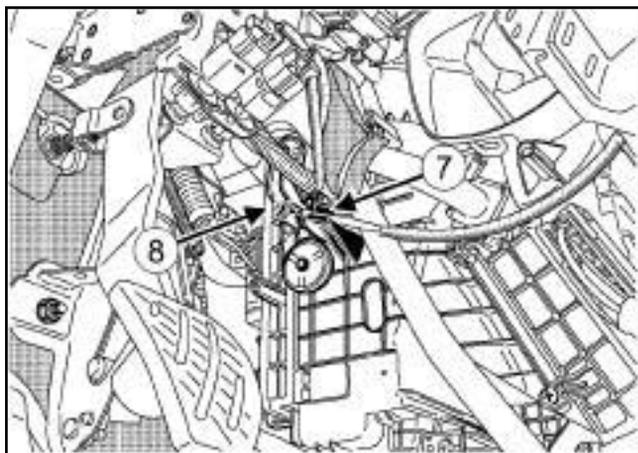


131157

- ❑ Refit the air mixing control cable to the control panel.
- ❑ Refit the seal (6) .
- ❑ Clip the sleeve stop at (5) .
- ❑ Refit the control panel (see **61A, Heating, Control panel: Removal - Refitting**, page 61A-48) .

## Air mixing cable: Removal - Refitting

LEFT-HAND DRIVE



131155

 Refit:

- the air mixing control cable to the air distribution unit,
- the seal (8) to the air mixer flap.

 Clip the sleeve stop (7) onto the distribution unit.**II - FINAL OPERATION.** Remove:

- the front panel side trim (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
- the radio (see **Car radio: Removal - Refitting**) (86A, Radio),
- the CD changer (see **CD changer: Removal - Refitting**) (86A, Radio),
- the A pillar air distribution duct (see **Front air distribution duct: Removal - Refitting**),
- the dashboard lower cover (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
- the bottom cover (see **Dashboard: Removal - Refitting**) (57A, Interior equipment).

## Air distribution unit: Removal - Refitting

**Essential special tooling** Essential special tooling  
Essential special tooling

**Ms. 583** Hose clamp pliers.

**Essential equipment** Essential equipment

refrigerant charging station

**Tightening torques** 

pipe union bolt **4 N.m**

### IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **62A, Air conditioning, Air conditioning: Precautions for repair**, page 62A-1)

### WARNING

To prevent moisture from entering the system,

## REMOVAL

### I - REMOVAL PREPARATION OPERATION

- Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (02A, Lifting equipment).
- Drain the refrigerant circuit using the **refrigerant charging station** (see **62A, Air conditioning, Coolant circuit Draining - Refilling**, page 62A-11) .

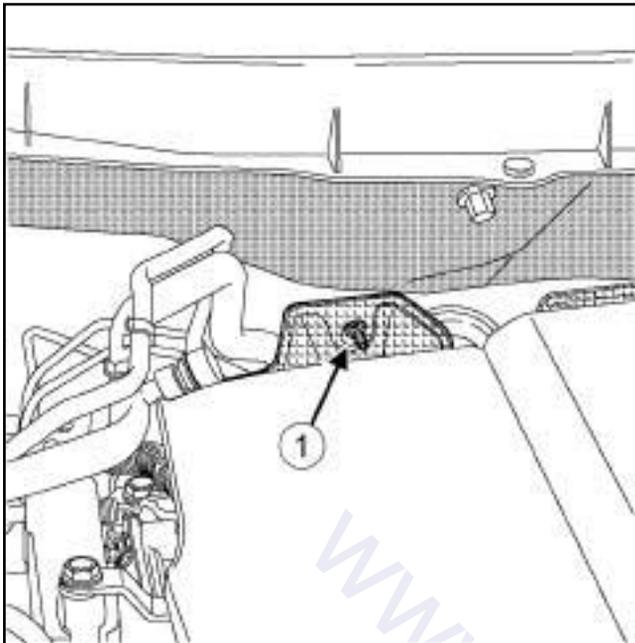
### IMPORTANT

To prevent the pyrotechnic components from being permanently deactivated or triggered (airbags or pretensioners), wait for at least **3 minutes** after disconnecting the battery.

- Disconnect the battery (see **Battery: Removal - Refitting**) (80A, Battery).
- Remove:
  - the driver's front airbag (see **Driver's front airbag: Removal - Refitting**) (88C, Airbags and pretensioners),
  - the steering wheel (see **Steering wheel: Removal - Refitting**) (36A, Steering assembly),

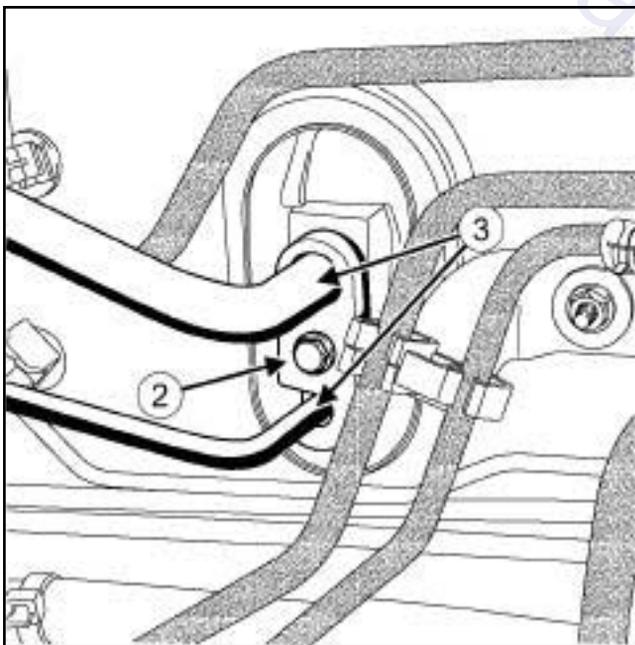
- the rotary switch (see **Rotary switch: Removal - Refitting**) (84A, Control - Signal),
- the steering column switch assembly (see **Steering wheel controls assembly: Removal - Refitting**) (84A, Controls - Signalling),
- the instrument panel (see **Instrument panel: Removal - Refitting**) (83A, Instrument panel),
- the solar radiation detector (see **61A, Heating, Insulation sensor: Removal - Refitting**, page 61A-76) ,
- the tweeter (see **Tweeter: Removal - Refitting**) (86A, Radio),
- the front speaker (see **Front speakers: Removal - Refitting**) (86A, Radio),
- the display (see **Display: Removal - Refitting**) (86A, Radio),
- the navigation screen (see **Navigation screen: Removal - Refitting**) (83C, On-board telematics system),
- the CD changer (see **CD changer: Removal - Refitting**) (86A, Radio),
- the radio (see **Car radio: Removal - Refitting**) (86A, Radio),
- the control panel (see **61A, Heating, Control panel: Removal - Refitting**, page 61A-48) ,
- the starter control panel (see **Card reader: Removal - Refitting**) (82A, Immobiliser),
- the central console (see **Centre console: Removal - Refitting**) (57A, Interior equipment),
- the dashboard (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
- the dashboard cross member (see **Dashboard cross member: Removal - Refitting**) (42A, Upper front structure).

## Air distribution unit: Removal - Refitting



131159

- Remove the nut (1) .
- Lift the bulkhead insulation.



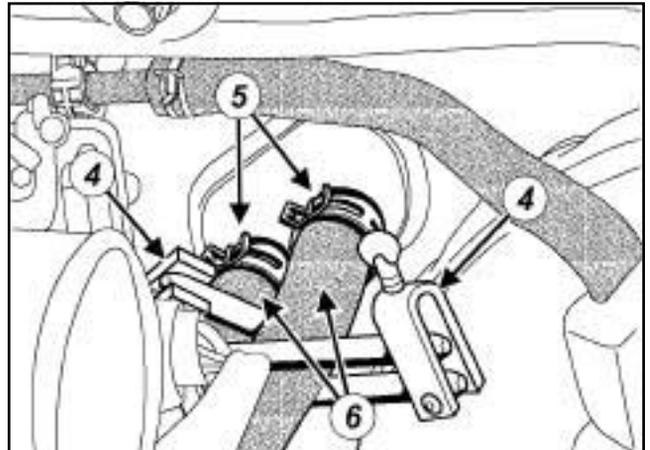
131337

- Remove:
  - the bolt (2) of the pipe union,
  - the expansion valve pipe union.

### WARNING

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

- Disconnect the expansion valve connection pipes (3) .
- Fit plugs into the openings.
- Remove the air filter housing (see **Air filter unit: Removal - Refitting**) (12A, Fuel mixture).



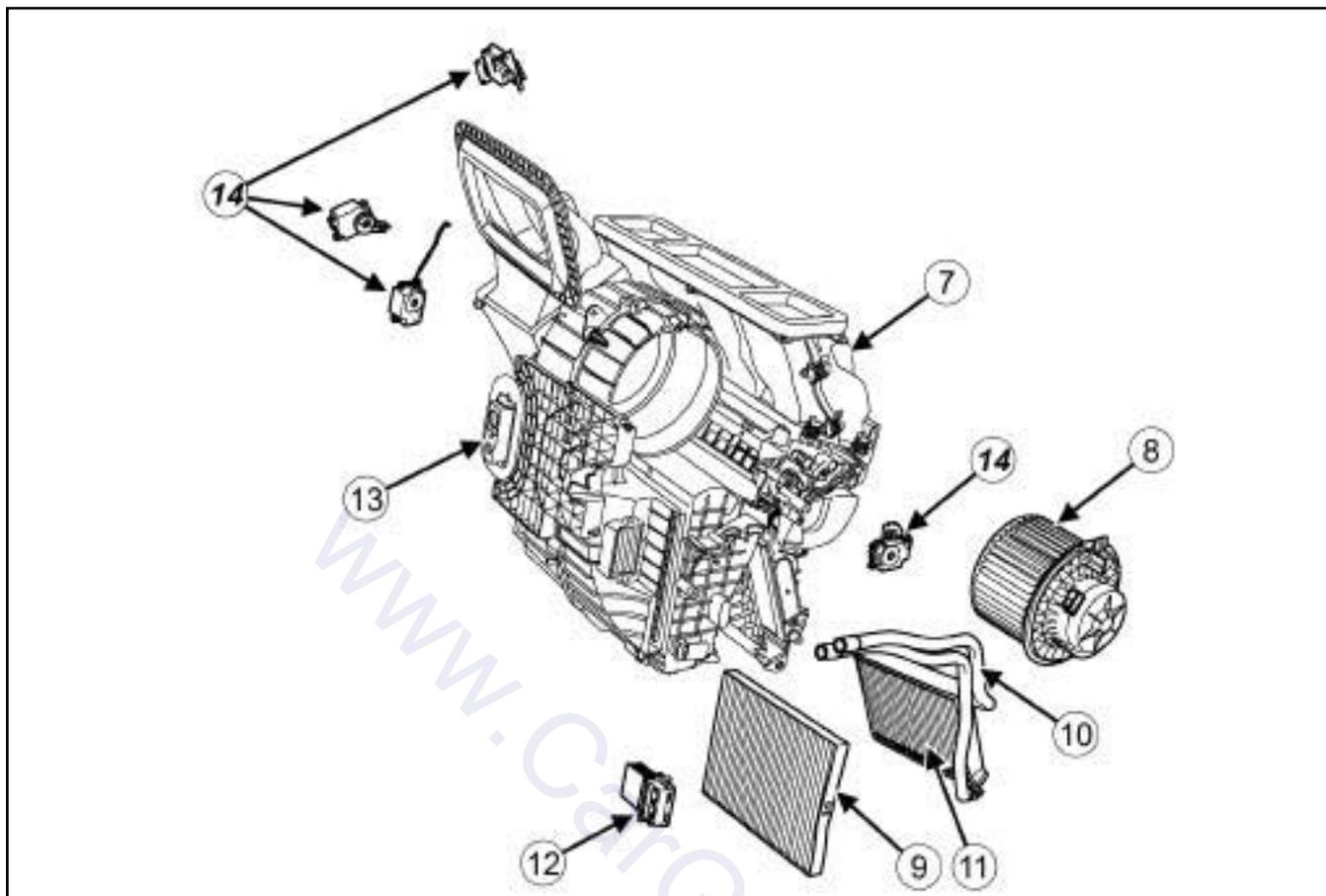
135208

- Fit the hose clamps (**Ms. 583**) (4) on the heater matrix inlet and outlet hoses.
- Remove the clips (5) from the heater matrix hoses.
- Disconnect the heater matrix hoses (6) .
- Remove the bracket for the heater matrix pipes (see **61A, Heating, Heater matrix: Removal - Refitting**, page 61A-29) .

### II - OPERATION FOR REMOVAL OF PART CONCERNED

- Remove the air distribution unit.

## Air distribution unit: Removal - Refitting



131162

- ❑ Remove the following air distribution unit components (7) :
  - the fan assembly (8) ,
  - the cabin filter (9) ,
  - the heater matrix pipes (10) ,
  - the heater matrix (11) ,
  - the heating resistor (if the vehicle is fitted with one),
  - the fan assembly control unit (12) ,
  - the expansion valve (13) ,
  - the control cables (if the vehicle is fitted with them),
  - the motors (14) (if the vehicle is fitted with them).

### REFITTING

#### I - REFITTING PREPARATION OPERATION

- ❑ Check that the parts are in good condition and if necessary, replace any defective parts.
- ❑ Refit the following components to the air distribution unit:
  - the motors (if the vehicle is fitted with them),

- the control cables (if the vehicle is fitted with them),
- the expansion valve,
- the fan assembly control unit,
- the heating resistor (if the vehicle is fitted with one),
- the heater matrix,
- the heater matrix pipes,
- the cabin filter,
- the fan assembly.

#### II - REFITTING OPERATION FOR PART CONCERNED

- ❑ Refit the air distribution unit.

#### III - FINAL OPERATION

- ❑ Refit the bracket for the heater matrix pipes (see 61A, Heating, Heater matrix: Removal - Refitting, page 61A-29) .
- ❑ Connect the heater matrix hoses.
- ❑ Refit the clips on the heater matrix hoses.
- ❑ Remove the hose clamps (Ms. 583).

## Air distribution unit: Removal - Refitting

- Refit the air filter housing (see **Air filter unit: Removal - Refitting**) (12A, Fuel mixture).

**WARNING**

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.

- Remove the plugs from the openings.
- Connect the connecting pipes to the expansion valve.
- Refit:
  - the pipe union to the expansion valve,
  - the bolt to the pipe union.
- Torque tighten the **pipe union bolt (4 N.m)**.
- Refit:
  - the bulkhead insulation in its original position,
  - the nut of the bulkhead insulation,
  - the dashboard cross member (see **Dashboard cross member: Removal - Refitting**) (42A, Upper front structure),
  - the dashboard (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
  - the central console (see **Centre console: Removal - Refitting**) (57A, Interior equipment),
  - the starter control panel (see **Card reader: Removal - Refitting**) (82A, Immobiliser),
  - the control panel (see **61A, Heating, Control panel: Removal - Refitting**, page 61A-48),
  - the radio (see **Car radio: Removal - Refitting**) (86A, Radio),
  - the CD changer (see **CD changer: Removal - Refitting**) (86A, Radio),
  - the navigation screen (see **Navigation screen: Removal - Refitting**) (83C, On-board telematics system),
  - the display (see **Display: Removal - Refitting**) (86A, Radio),
  - the front speaker (see **Front speakers: Removal - Refitting**) (86A, Radio),
  - the tweeter (see **Tweeter: Removal - Refitting**) (86A, Radio),
  - the solar radiation detector (see **61A, Heating, Insolation sensor: Removal - Refitting**, page 61A-76),
- the instrument panel (see **Instrument panel: Removal - Refitting**) (83A, Instrument panel),
- the steering column switch assembly (see **Steering wheel controls assembly: Removal - Refitting**) (84A, Controls - Signalling),
- the rotary switch (see **Rotary switch: Removal - Refitting**) (84A, Control - Signal),
- the steering wheel (see **Steering wheel: Removal - Refitting**) (36A, Steering assembly),
- the driver's front airbag (see **Driver's front airbag: Removal - Refitting**) (88C, Airbags and pretensioners).
- Connect the battery (see **Battery : Removal - Refitting**) (80A, Battery).
- Perform the following operations:
  - fill the cooling system (see **Cooling circuit: Draining - Refilling**) (19A, Cooling),
  - bleed the cooling system (see **Cooling circuit: Draining - Refilling**) (19A, Cooling),
  - check the cooling system (see **Engine cooling circuit: check**) (19A, Cooling),
  - fill the refrigerant circuit using the **refrigerant charging station** (see **62A, Air conditioning, Coolant circuit Draining - Refilling**, page 62A-11).
- Check:
  - that the air conditioning system is operating correctly (see **62A, Air conditioning, Air conditioning: Check**, page 62A-6),
  - that there are no leaks (see **62A, Air conditioning, Air conditioning: Check**, page 62A-6).

## Heater matrix: Removal - Refitting

LEFT-HAND DRIVE

Essential special tooling  
Essential special tooling

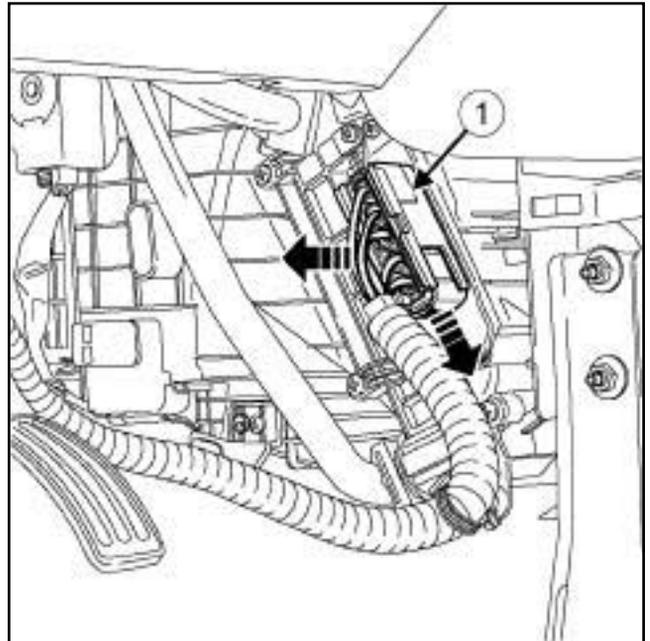
Ms. 583                      Hose clamp pliers.

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

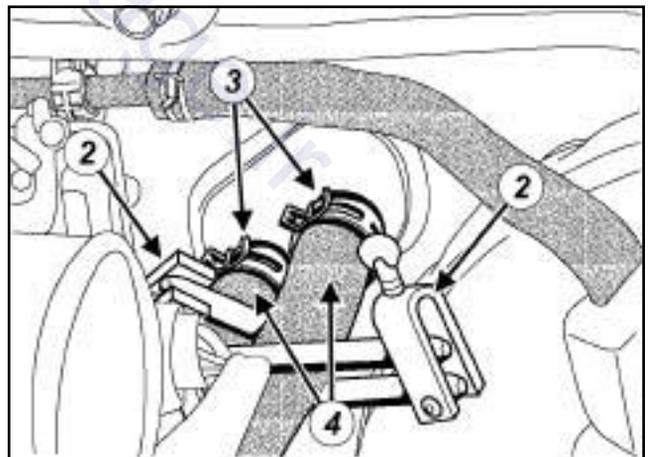
- Disconnect the battery (see **Battery: Removal - Refitting**) (80A, Battery).
- Remove:
  - the dashboard lower cover on the driver's side (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
  - the lower cover on the left-hand side of the centre panel (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
  - the driver's side A pillar air distribution duct (see **Front air distribution duct: Removal - Refitting**) ,
  - the air mixing cable (see **61A, Heating, Air mixing cable: Removal - Refitting**, page 61A-21) .

M9R



131274

- Disconnect the connector (1) from the heating resistor.
- Remove the air filter unit (see **Air filter unit: Removal - Refitting**) (12A, Fuel mixture).



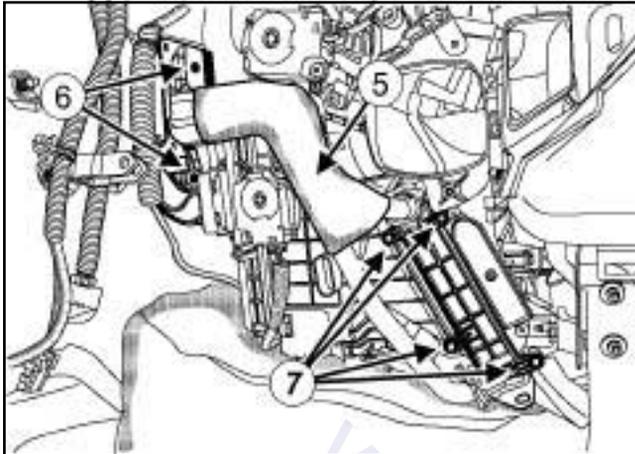
135208

- Fit the hose clamps (**Ms. 583**) (2) on the heater matrix inlet and outlet hoses.
- Remove the clips (3) from the heater matrix hoses.
- Disconnect the heater matrix hoses (4) .

## Heater matrix: Removal - Refitting

LEFT-HAND DRIVE

### II - OPERATION FOR REMOVAL OF PART CONCERNED



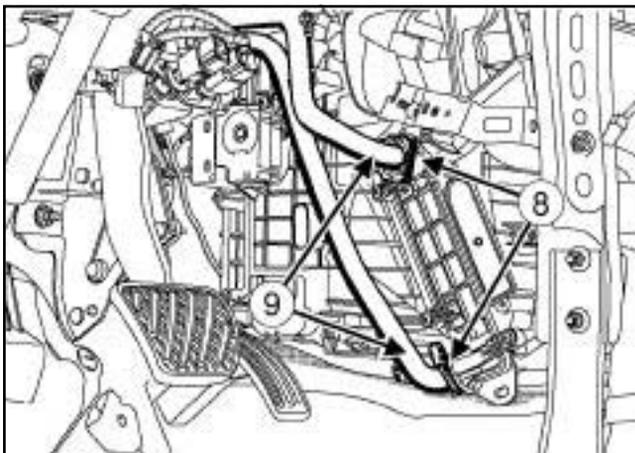
131271

- ❑ Remove:
  - the sheath (5) of the heater matrix pipes,
  - the bolts (6) for the heater matrix pipe bracket,
  - the heater matrix pipe bracket,
  - the heater matrix cover bolts (7) ,
  - the heater matrix cover.

#### WARNING

Prepare for the flow of fluid, and protect the surrounding components.

- ❑ Place a container underneath the heater matrix to collect the coolant.



131275

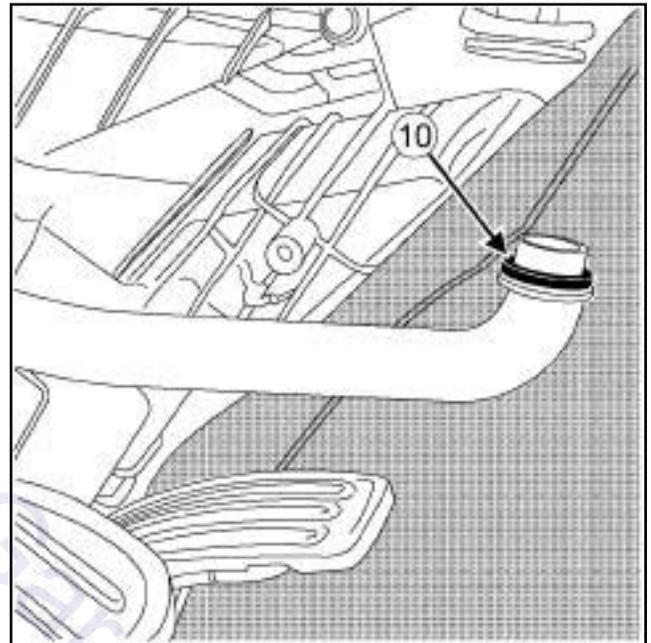
- ❑ Unclip the retaining clips (8) .
- ❑ Disconnect the heater matrix pipes (9) from the heater matrix.
- ❑ Remove the heater matrix.

### I - REFITTING PREPARATION OPERATION



#### WARNING

To avoid any leaks, check that the pipe surface is sound before positioning the new seal. The surface must be clean and scratch free.



131273

- ❑ Always replace the seals ( 10) between the pipes and the heater matrix.

### II - REFITTING OPERATION FOR PART CONCERNED

- ❑ Refit the new seals between the pipes and the heater matrix.
- ❑ Remove the container placed underneath the heater matrix.
- ❑ Refit the heater matrix.
- ❑ Connect the heater matrix pipes to the heater matrix.
- ❑ Refit the retaining clips.
- ❑ Refit:
  - the heater matrix cover,
  - the heater matrix cover bolts,
  - the heater matrix pipe bracket,
  - the heater matrix pipe bracket bolts.
  - the heater matrix pipe sheath.

## Heater matrix: Removal - Refitting

LEFT-HAND DRIVE

## III - FINAL OPERATION

- Connect the heater matrix hoses.
- Refit the clips on the heater matrix hoses.
- Remove the hose clamps (**Ms. 583**).
- Refit the air filter housing (see **Air filter unit: Removal - Refitting**) (12A, Fuel mixture).

M9R

- Connect the heating resistor connector.
- 
- Refit:
    - the air mixing cable (see **61A, Heating, Air mixing cable: Removal - Refitting**, page 61A-21) .
    - the A-pillar air distribution duct (see **Front air distribution duct: Removal - Refitting**) ,
    - the lower cover on the left-hand side of the centre panel (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
    - the dashboard lower cover on the driver's side (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
  - Connect the battery (see **Battery : Removal - Refitting**) (80A, Battery).
  - Perform the following operations:
    - fill the cooling system (see **Cooling circuit: Draining - Refilling**) (19A, Cooling),
    - bleed the cooling system (see **Cooling circuit: Draining - Refilling**) (19A, Cooling).
  - Check the cooling circuit (see **Engine cooling circuit: check**) (19A, Cooling).

## Fan assembly: Removal - Refitting

LEFT-HAND DRIVE

## REMOVAL

## I - REMOVAL PREPARATION OPERATION

 Remove:

- the dashboard lower cover on the driver's side (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
- the lower cover on the left-hand side of the centre panel (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
- the driver's side A pillar air distribution duct (see **Front air distribution duct: Removal - Refitting**)
  
- the brake and accelerator pedal assembly (see **Accelerator/brake pedal assembly: Removal - Refitting**) (37A, Mechanical component controls).

## II - OPERATION FOR REMOVAL OF PART



131276

- 
- Remove the fan assembly connector (1) .

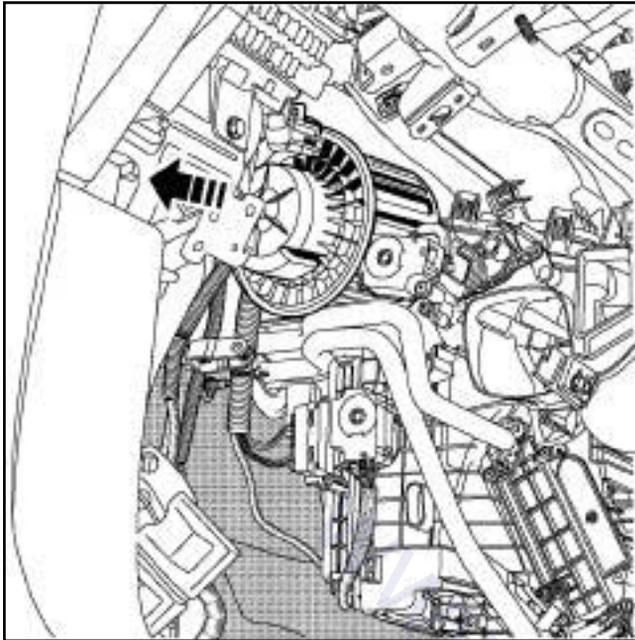


131277

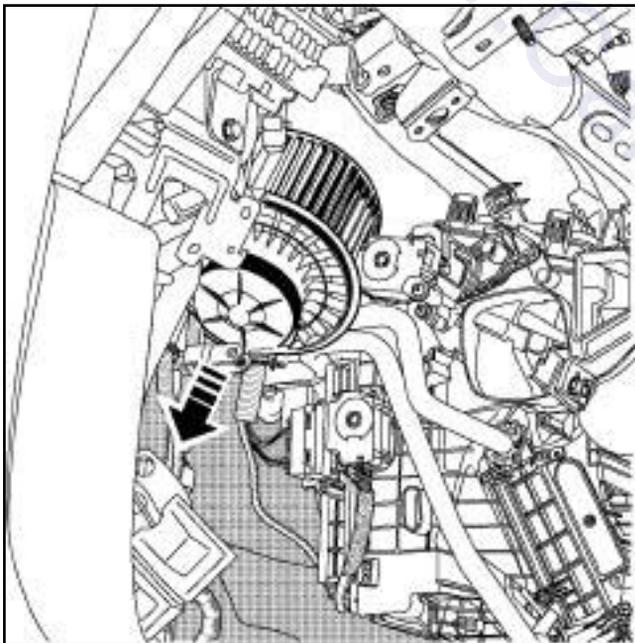
- 
- Remove the fan assembly bolt (2) .
- 
- 
- Turn the fan assembly clockwise (3) .

# Fan assembly: Removal - Refitting

LEFT-HAND DRIVE



131278

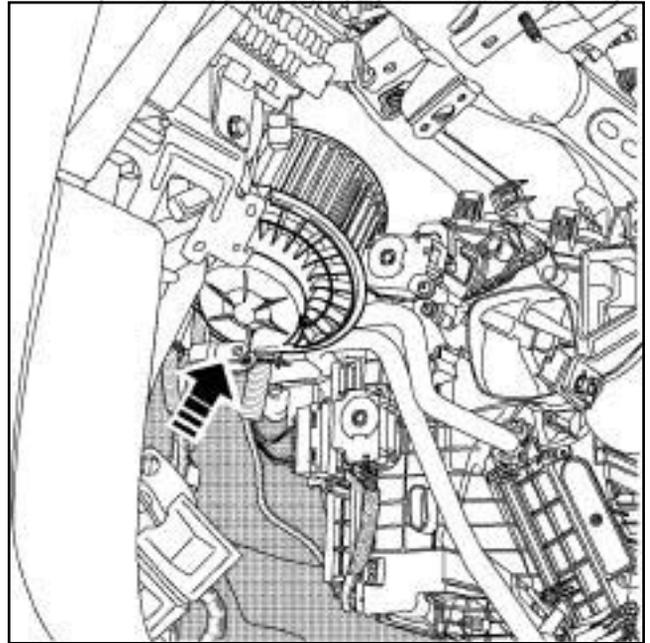


131279

Remove the fan assembly.

## REFITTING

I - REFITTING OPERATION FOR PART CONCERNED



131280

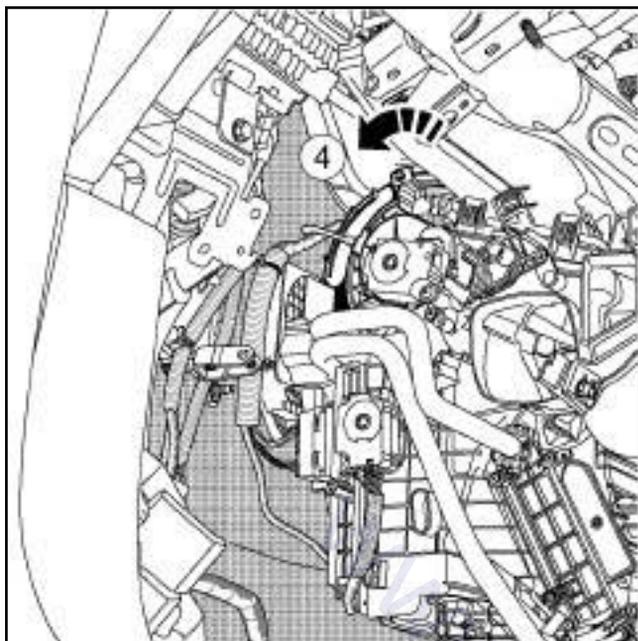


131281

Refit the fan assembly.

## Fan assembly: Removal - Refitting

LEFT-HAND DRIVE



131282

- Turn the fan assembly anti-clockwise (4) .
- Refit the fan assembly bolt.
- Connect the fan assembly connector.

**II - FINAL OPERATION.**

- Refit:
  - the brake and accelerator pedal assembly (see **Accelerator/brake pedal assembly: Removal - Refitting**) (37A, Mechanical component controls),
  - the driver's side A pillar air distribution duct (see **Front air distribution duct: Removal - Refitting**)
  - the lower cover on the left-hand side of the centre panel (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
  - the dashboard lower cover on the driver's side (see **Dashboard: Removal - Refitting**) (57A, Interior equipment).

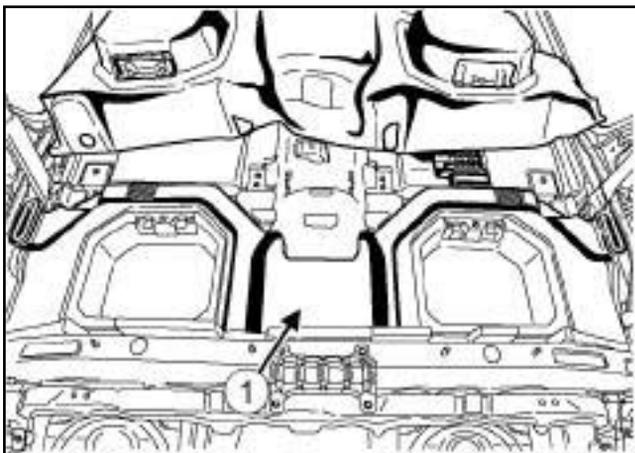
## Rear motor-driven fan assembly: Removal - Refitting

## REMOVAL

## I - REMOVAL PREPARATION OPERATION

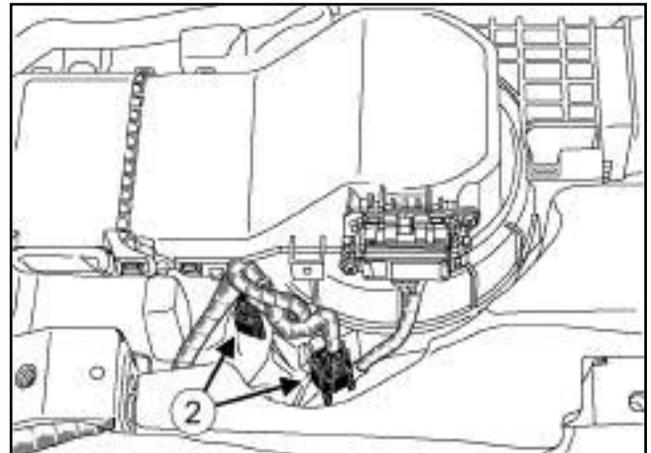
- Disconnect the battery (see **Battery: Removal - Refitting**) (80A, Battery).
- Remove:
  - the cab floor panel trim (see **Cab floor lining: Removal - Refitting**) (71A, Bodywork interior trim),
  - the front door sill lining (see **Front door sill lining: Removal - Refitting**) (71A, Body internal trim),
  - the rear inner sill trim (see **Rear door sill lining: Removal - Refitting**) (71A, Body internal trim),
  - the B-pillar trim (see **B-pillar trim: Removal - Refitting**) (71A, Body internal trim),
  - the front seat (see **Complete front seat: Removal - Refitting**) (75A, Front seat frames and runners),
  - the central console (see **Centre console: Removal - Refitting**) (57A, Interior equipment),
  - the rear seat (see **Complete rear seat: Removal - Refitting**) (76A, Rear seat frames and seat runners),)
  - the floor carpet (see **Floor carpet: Removal - Refitting**) (71A, Body internal trim).

## II - OPERATION FOR REMOVAL OF PART



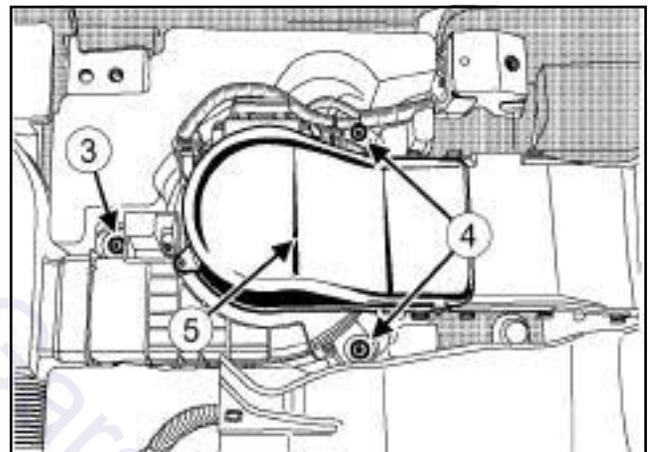
131265

- Remove the rear air distribution duct (1) .



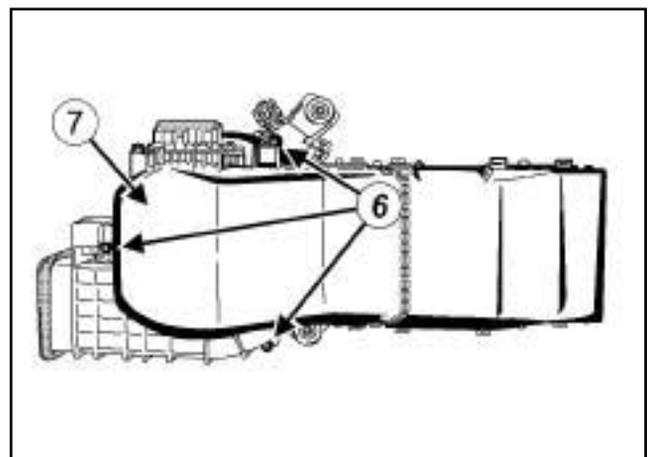
132597

- Disconnect the connectors (2) .



132598

- Remove:
  - the bolt (3) ,
  - the nuts (4) ,
  - the rear fan assembly (5) .

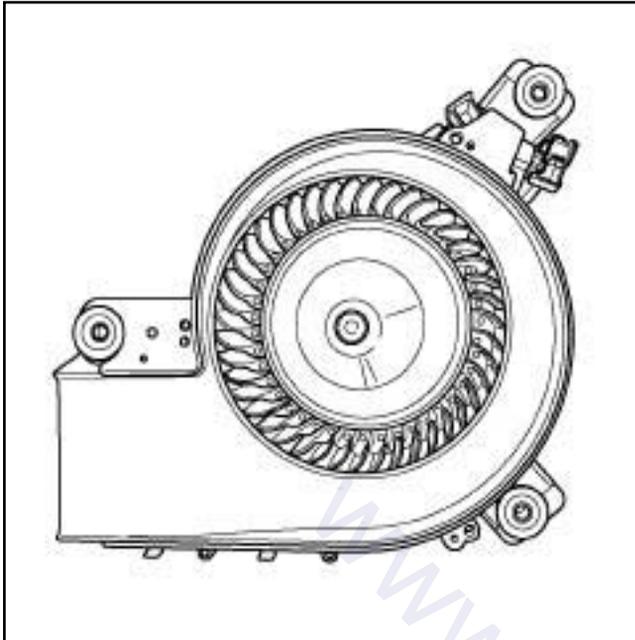


132599

- Remove:
  - the bolts (6) ,

**Rear motor-driven fan assembly: Removal - Refitting**

- the rear fan assembly rear air distribution duct (7) .



132600

- Remove the rear fan assembly.

**REFITTING****I - REFITTING OPERATION FOR PART CONCERNED**

- Refit:
  - the rear air distribution duct to the rear fan assembly,
  - the rear air distribution duct bolts,
  - the rear fan assembly,
  - the rear fan assembly nuts,
  - the rear fan assembly bolts.
- Connect the rear fan assembly connectors.
- Refit the rear air distribution duct.

**II - FINAL OPERATION.**

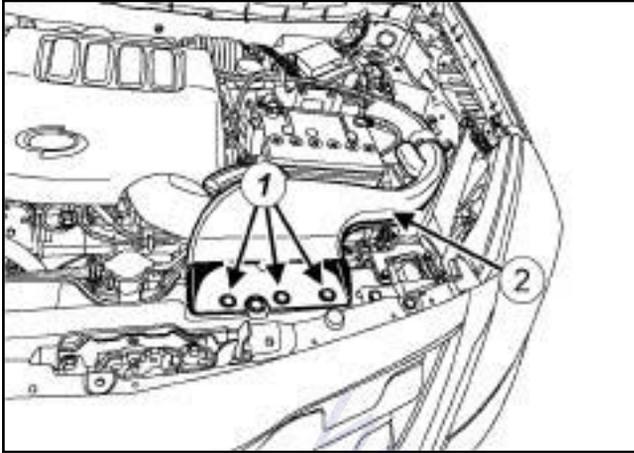
- Refit:
  - the floor carpet (see **Floor carpet: Removal - Refitting**) (71A, Body internal trim),
  - the rear seat (see **Complete rear seat: Removal - Refitting**) (76A, Rear seat frames and seat runners),)
  - the central console (see **Centre console: Removal - Refitting**) (57A, Interior equipment),
  - the front seat (see **Complete front seat: Removal - Refitting**) (75A, Front seat frames and runners),

- the B-pillar trim (see **B-pillar trim: Removal - Refitting**) (71A, Body internal trim),
  - the rear inner sill trim (see **Rear door sill lining: Removal - Refitting**) (71A, Body internal trim),
  - the front door sill lining (see **Front door sill lining: Removal - Refitting**) (71A, Body internal trim),
  - the cab floor panel trim (see **Cab floor lining: Removal - Refitting**) (71A, Bodywork interior trim).
- Connect the battery (see **Battery : Removal - Refitting**) (80A, Battery).

# Heating resistor relays: Removal - Refitting

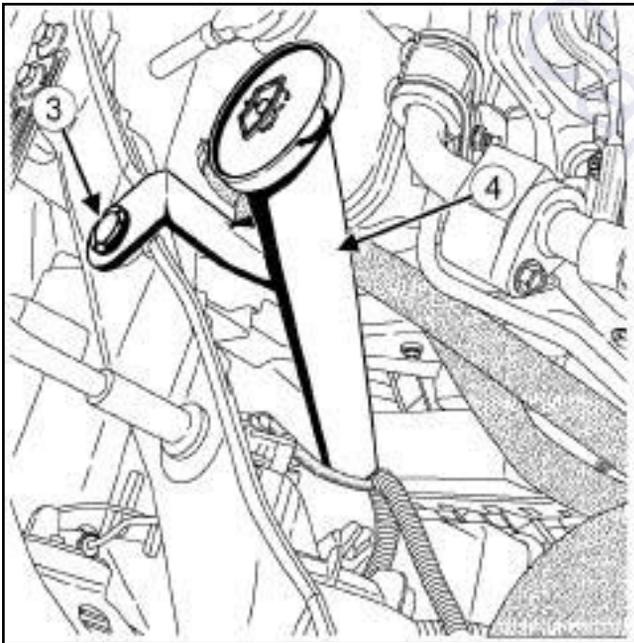
## REMOVAL

### REMOVAL PREPARATION OPERATION



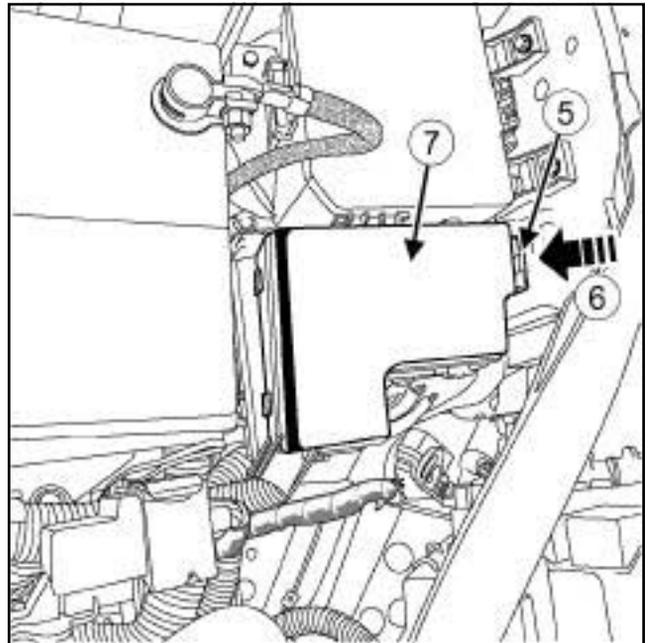
131708

- Remove clips (1) .
- Remove the air inlet sleeve (2) .



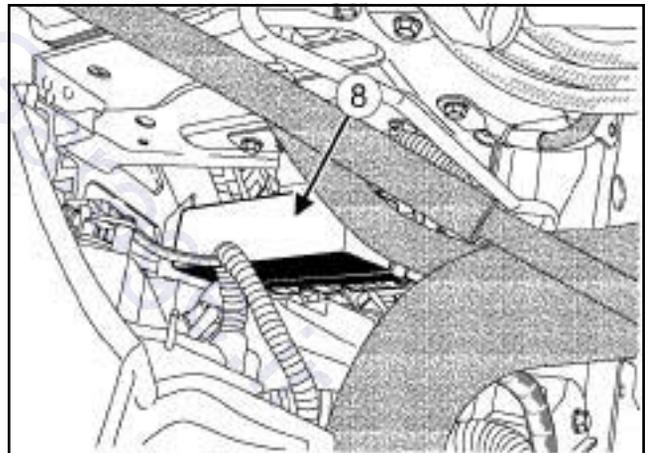
132650

- Remove:
  - the clip (3) ,
  - the screen washer bottle filler neck (4) .



131709

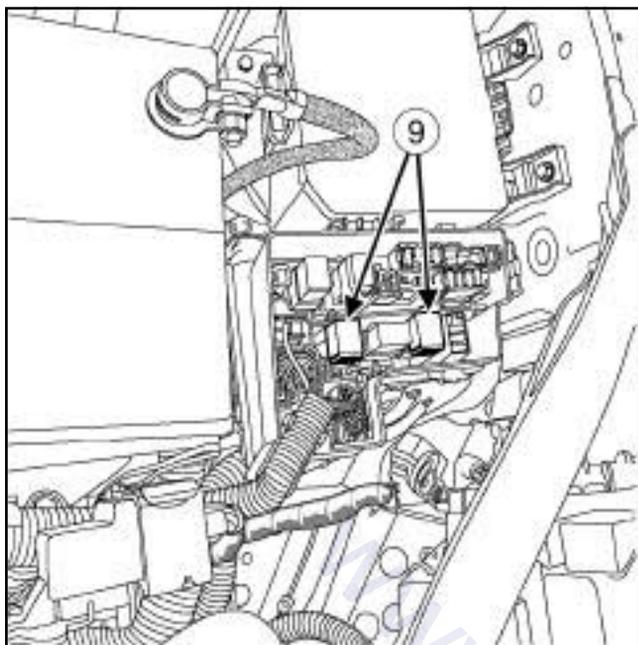
- Unclip the relay unit cover at ( 5 ) in the direction of the arrow (6) .
- Remove the relay unit cover (7) .



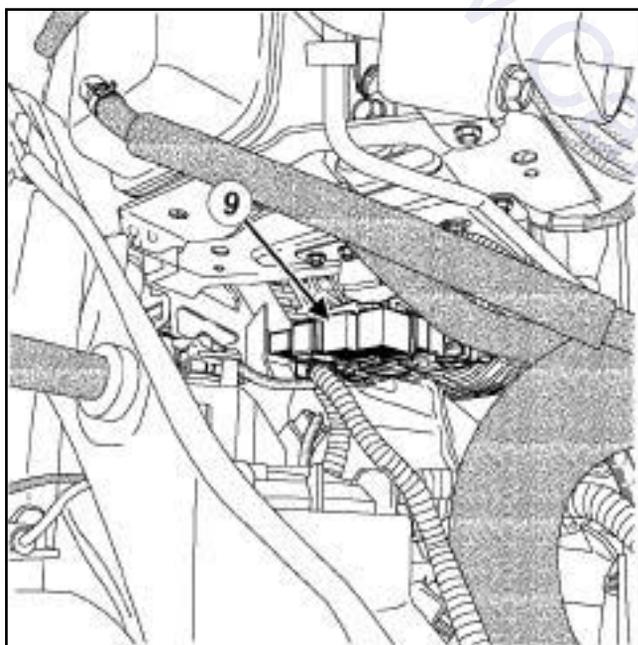
132651

- Remove the relay unit cover (8) .

## Heating resistor relays: Removal - Refitting



131710



132652

- Remove the heating resistor relays (9) .

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

- Refit:
  - the heater resistor relays,
  - the relay unit covers.
- Clip the relay unit cover on at (5) .

#### II - FINAL OPERATION.

- Refit:
  - the screen washer bottle filler neck,
  - the clip (3) ,
  - the air inlet sleeve.
- Refit the air inlet sleeve clips.

## Heating resistor unit: Removal - Refitting

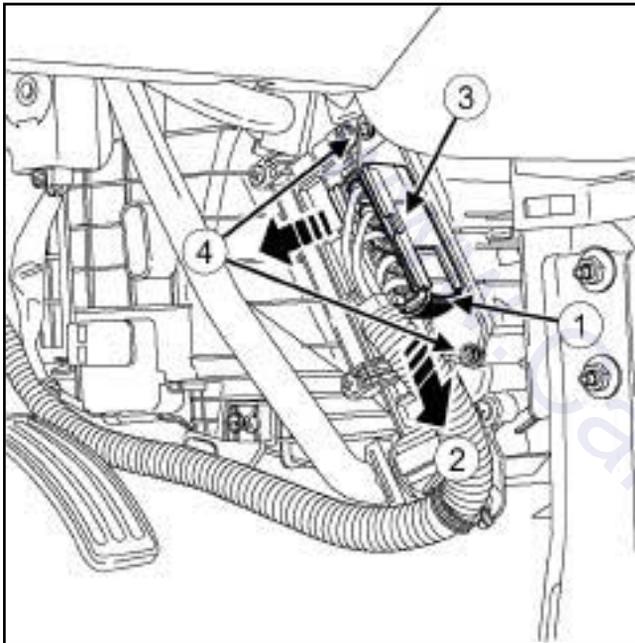
LEFT-HAND DRIVE

## REMOVAL

## I - REMOVAL PREPARATION OPERATION

- Remove the lower left-hand cover on the centre panel (see **Dashboard: Removal - Refitting**) (57A, Interior equipment).

## II - OPERATION FOR REMOVAL OF PART CONCERNED



131290

- Unclip the heater resistor connector clip (1) in the direction of the arrow (2).
- Disconnect the connector (3).
- Remove:
  - the bolts (4),
  - the heating resistor.

## REFITTING

## I - REFITTING OPERATION FOR PART CONCERNED

- Refit:
  - the heating resistor,
  - the heating resistor bolts.
- Connect the heating resistor connector.
- Clip on the heater resistor connector clip.

## II - FINAL OPERATION.

- Remove the lower left-hand cover on the centre panel (see **Dashboard: Removal - Refitting**) (57A, Interior equipment).

## REMOVAL

### I - REMOVAL PREPARATION OPERATION

#### 1 - At the fan assembly end

Remove:

- the dashboard lower cover on the driver's side (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
- the centre panel lower left-hand cover,
- the driver's side A pillar air distribution duct (see **61A, Heating, A-pillar air distribution duct: Removal - Refitting**, page 61A-64) ,
- the brake and accelerator pedal assembly (see **Accelerator/brake pedal assembly: Removal - Refitting**) (37A, Mechanical component controls).

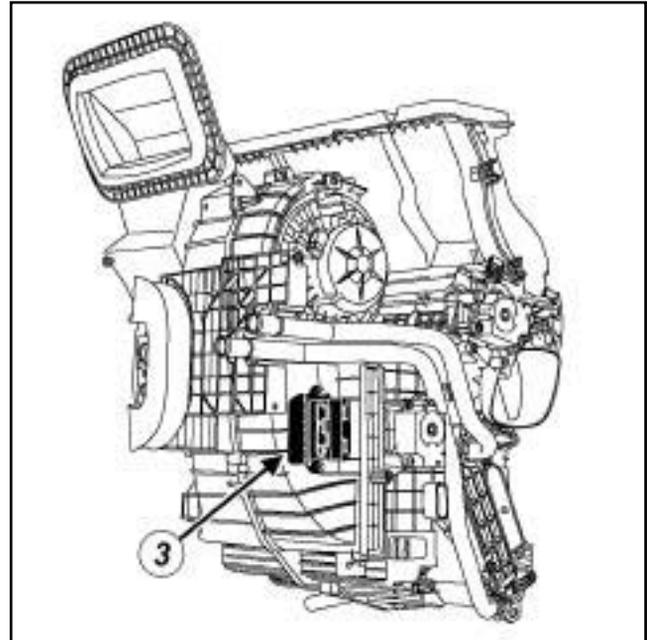
#### 2 - At the rear fan assembly end

Remove:

- the cab floor panel trim (see **Cab floor lining: Removal - Refitting**) (71A, Bodywork interior trim),
- the front door sill lining (see **Front door sill lining: Removal - Refitting**) (71A, Body internal trim),
- the rear inner sill trim (see **Rear door sill lining: Removal - Refitting**) (71A, Body internal trim),
- the B-pillar trim (see **B-pillar trim: Removal - Refitting**) (71A, Bodywork interior trim),
- the front seat (see **Complete front seat: Removal - Refitting**) (75A, Front seat frames and seat runners),
- the central console (see **Centre console: Removal - Refitting**) (57A, Interior equipment),
- the rear seat (see **Complete rear seat: Removal - Refitting**) (76A, Rear seat frames and seat runners),
- the floor carpet (see **Floor carpet: Removal -**

### II - OPERATION FOR REMOVAL OF PART CONCERNED

#### 1 - At the fan assembly end



132761



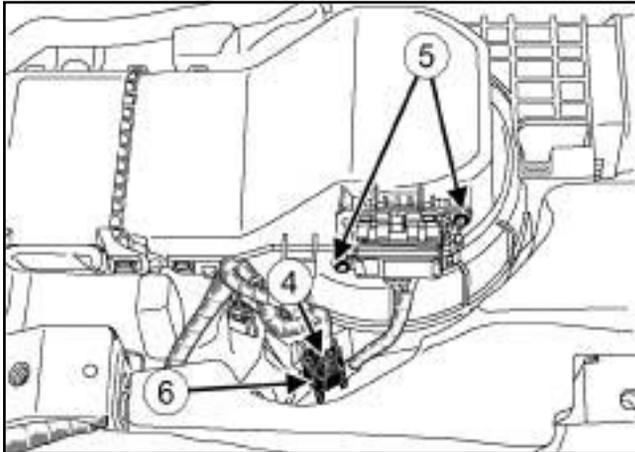
132762

- Disconnect the connectors (1) .

Remove:

- the bolts (2) ,
- the fan assembly control unit (3) .

2 - At the rear fan assembly end



132763

- Disconnect the connector (4) .
- Remove:
  - the bolts (5) ,
  - the retaining clip (6) ,
  - the rear fan assembly control unit.

REFITTING

1 - At the fan assembly end

- Refit:
  - the fan assembly control unit,
  - the bolts to the fan assembly control unit.
- Connect the fan assembly control unit connectors.

2 - At the rear fan assembly end

- Refit:
  - the rear fan assembly control unit,
  - the retaining clip,
  - the bolts to the rear fan assembly control unit.
- Connect the fan assembly control unit connector.

II - FINAL OPERATION.

1 - At the fan assembly end

- Remove:
  - the brake and accelerator pedal assembly (see **Accelerator/brake pedal assembly: Removal - Refitting**) (37A, Mechanical component controls),
  - the driver's side A pillar air distribution duct (see **61A, Heating, A-pillar air distribution duct: Removal - Refitting**, page 61A-64) ,
  - the centre panel lower left-hand cover,
  - the dashboard lower cover on the driver's side (see **Dashboard: Removal - Refitting**) (57A, Interior equipment).

2 - At the rear fan assembly end

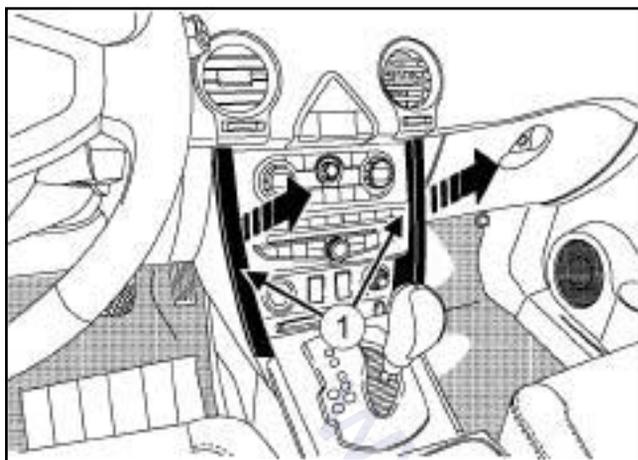
- Remove:
  - the floor carpet (see **Floor carpet: Removal - Refitting**) (71A, Body internal trim),
  - the rear seat (see **Complete rear seat: Removal - Refitting**) (76A, Rear seat frames and seat runners),
  - the central console (see **Centre console: Removal - Refitting**) (57A, Interior equipment),
  - the front seat (see **Complete front seat: Removal - Refitting**) (75A, Front seat frames and seat runners),
  - the B-pillar trim (see **B-pillar trim: Removal - Refitting**) (71A, Bodywork interior trim),
  - the rear inner sill trim (see **Rear door sill lining: Removal - Refitting**) (71A, Body internal trim),
  - the front door sill lining (see **Front door sill lining: Removal - Refitting**) (71A, Body internal trim),
  - the cab floor panel trim (see **Cab floor lining: Removal - Refitting**) (71A, Bodywork interior

## Control panel: Removal - Refitting

AIR CON 02

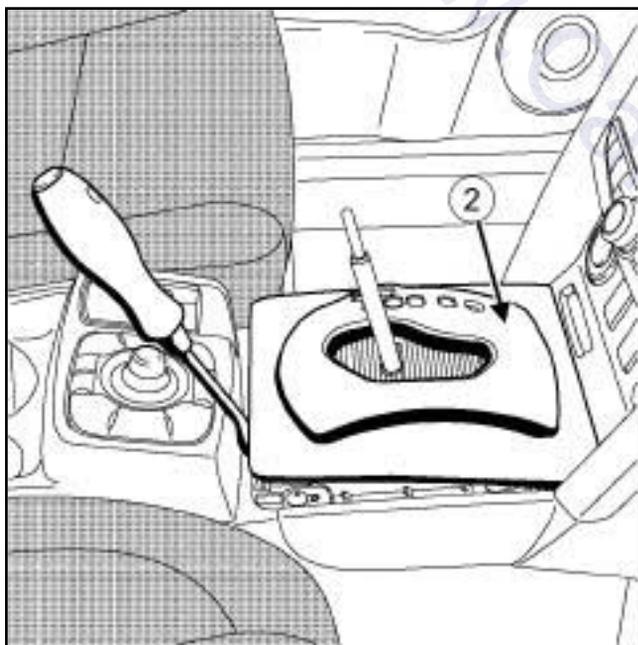
## REMOVAL

## I - REMOVAL PREPARATION OPERATION



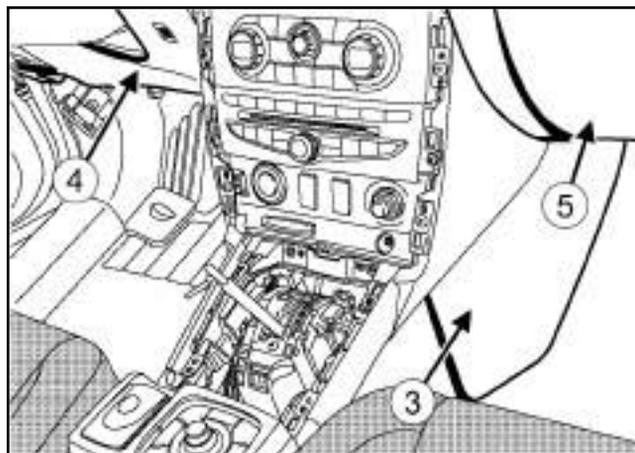
130317

- Remove the side trims (1) from the centre panel.



130684

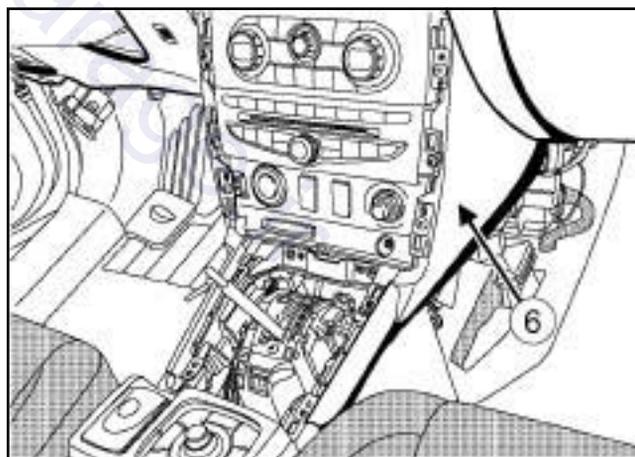
- Remove the plate (2) from the gear lever (see **Centre console: Removal - Refitting**) (57A, Interior equipment).



130685

- Remove:

- the lower covers (3) from the centre panel (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
- the dashboard lower cover (4) on the driver's side (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
- the glovebox (5) (see **Glovebox: Removal - Refitting**) (57A, Interior equipment).



130686

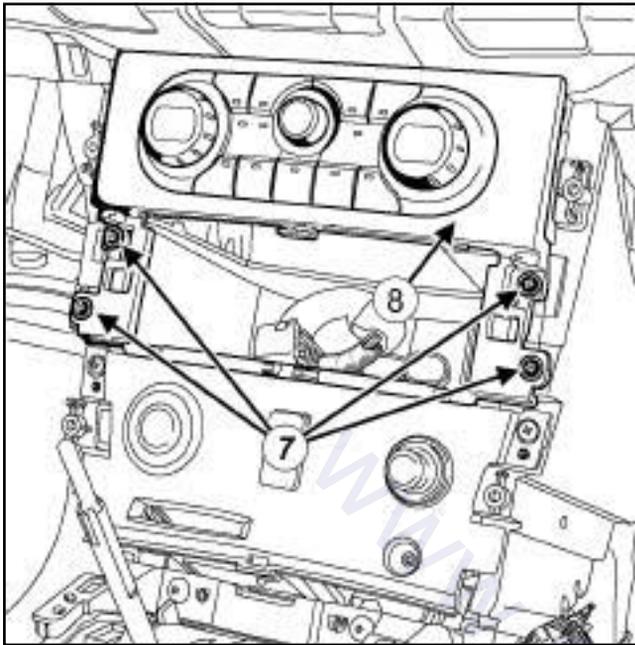
- Remove:

- the side trims (6) from the centre panel (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
- the CD changer (see **CD changer: Removal - Refitting**) (86A, Radio),
- the radio (see **Car radio: Removal - Refitting**) (86A, Radio).

## Control panel: Removal - Refitting

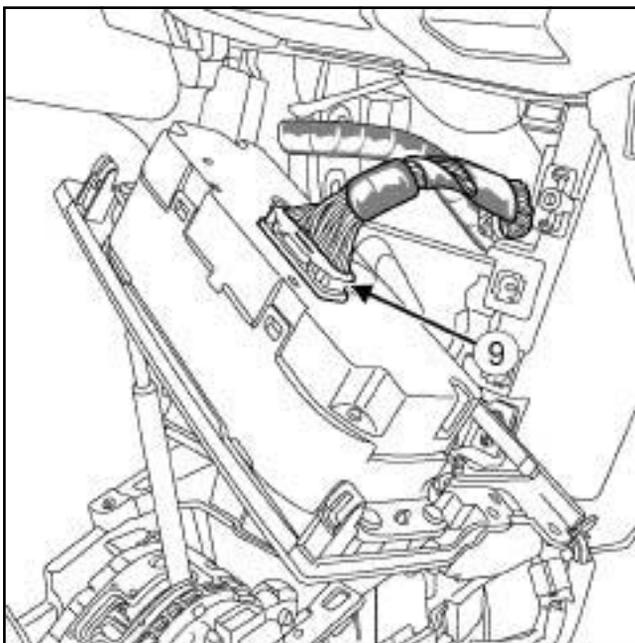
AIR CON 02

## II - OPERATION FOR REMOVAL OF PART CONCERNED



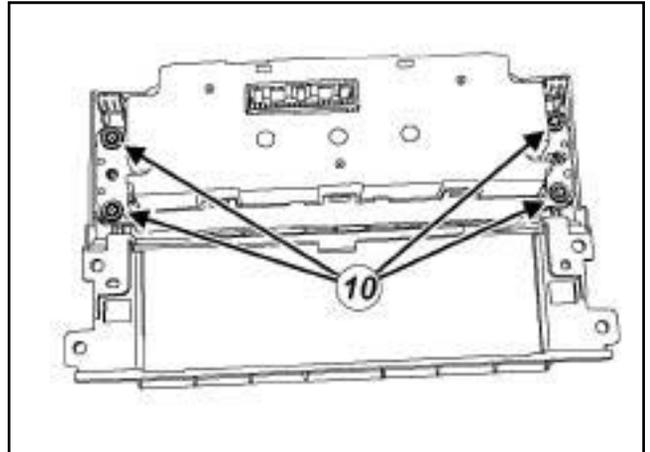
132552

- Remove:
  - the bolts (7) ,
  - the air conditioning control panel (8) .



131719

- Disconnect the connector (9) .



131722

- Remove:
  - the control panel bolts (10) ,
  - the control panel.

## REFITTING

## I - REFITTING OPERATION FOR PART CONCERNED

- Refit the control panel bolts.
- Connect the control panel connector.
- Refit:
  - the control panel,
  - the bolts (7) .

## II - FINAL OPERATION.

- Refit:
  - the radio (see **Car radio: Removal - Refitting**) (86A, Radio),
  - the CD changer (see **CD changer: Removal - Refitting**) (86A, Radio),
  - the side centre panel side trims (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
  - the glovebox (see **Glovebox: Removal - Refitting**) (57A, Interior equipment),
  - the dashboard lower cover on the driver's side (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
  - the lower covers to the centre panel (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),

Control panel: Removal - Refitting

AIR CON 02

- the centre panel side trims.

|

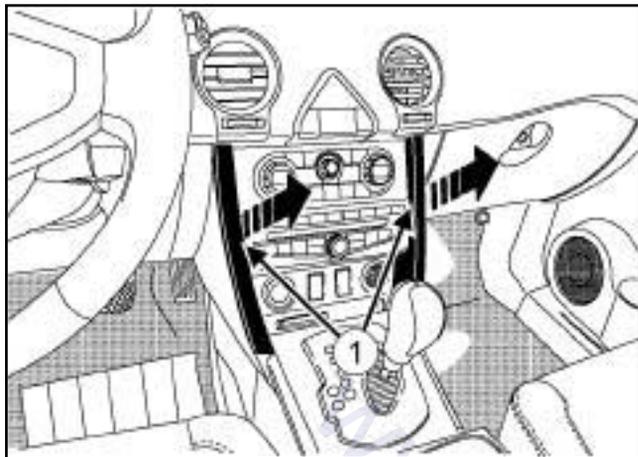
www.CarGarage.ir

## Control panel: Removal - Refitting

AIR CON 01 or BASIC HEATING

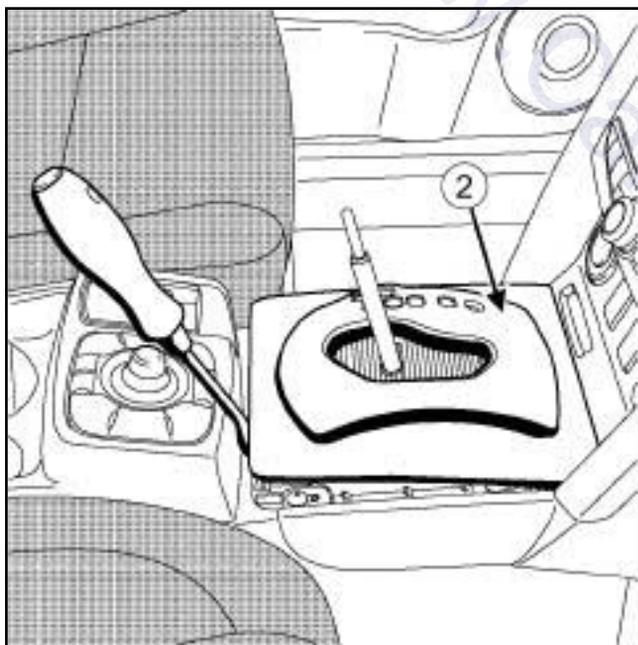
## REMOVAL

## I - REMOVAL PREPARATION OPERATION



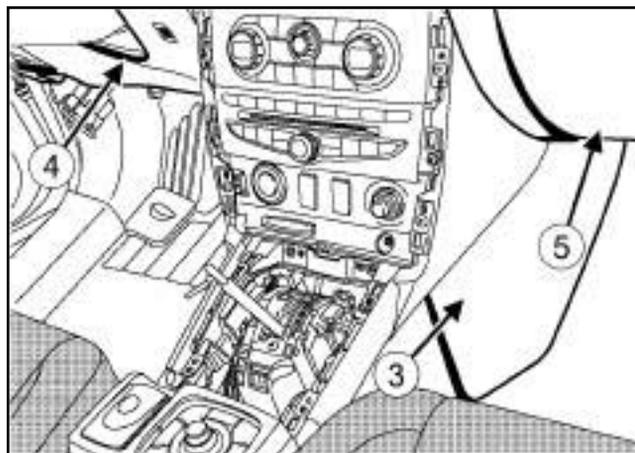
130317

- Remove the side trims (1) from the centre panel.



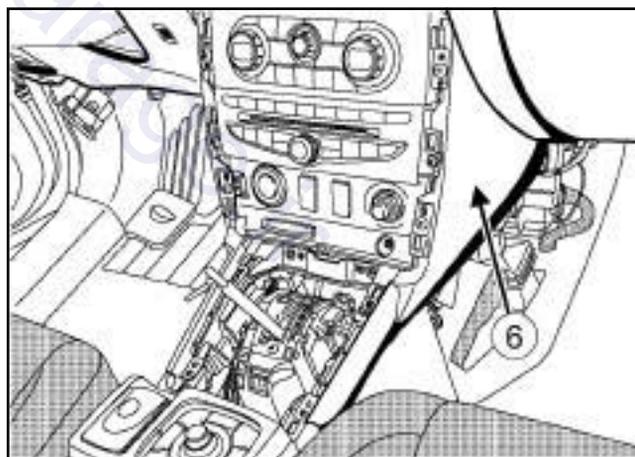
130684

- Remove the plate (2) from the gear lever (see **Centre console: Removal - Refitting**) (57A, Interior equipment).



130685

- Remove:
  - the lower covers (3) from the centre panel (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
  - the dashboard lower cover (4) on the driver's side (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
  - the glovebox (5) (see **Glovebox: Removal - Refitting**) (57A, Interior equipment).

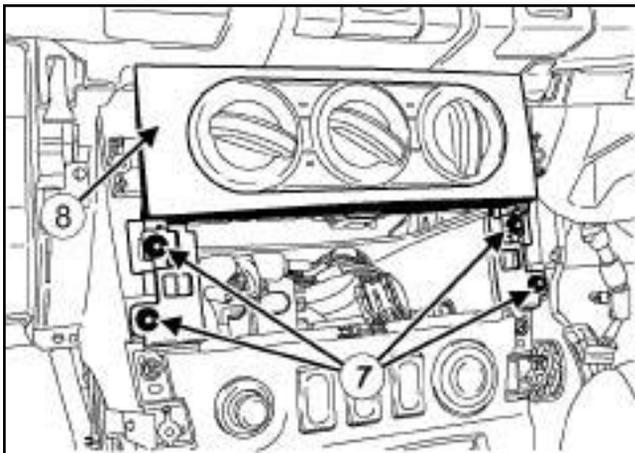


130686

- Remove:
  - the side trims (6) from the centre panel (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
  - the CD changer (see **CD changer: Removal - Refitting**) (86A, Radio),
  - the radio (see **Car radio: Removal - Refitting**) (86A, Radio).

Control panel: Removal - Refitting

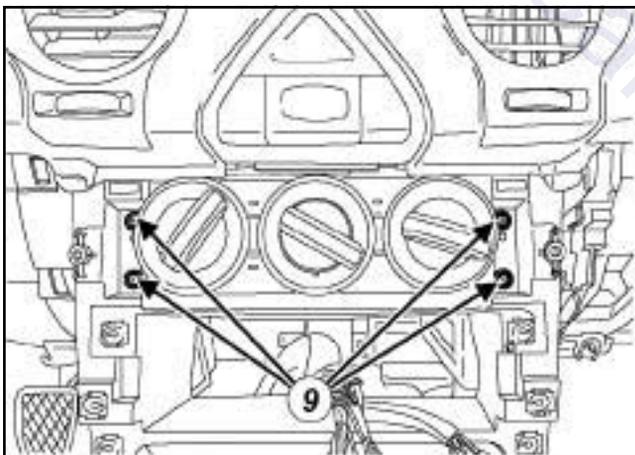
AIR CON 01 or BASIC HEATING



132575

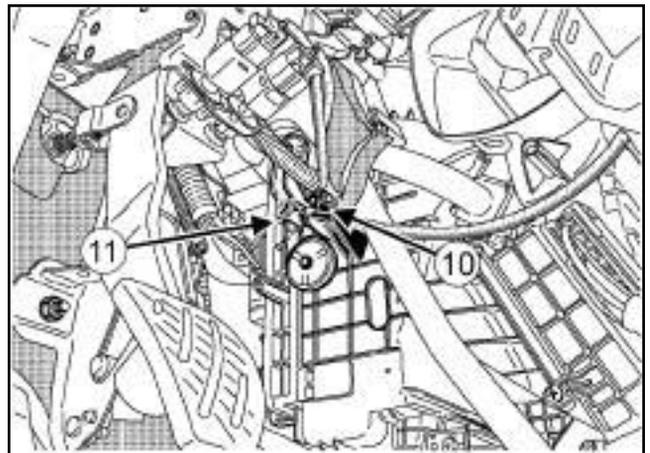
- ❑ Remove:
- the bolts (7) ,
- the cover (8) .

II - OPERATION FOR REMOVAL OF PART CONCERNED



131716

- ❑ Remove the bolts (9) .



131717

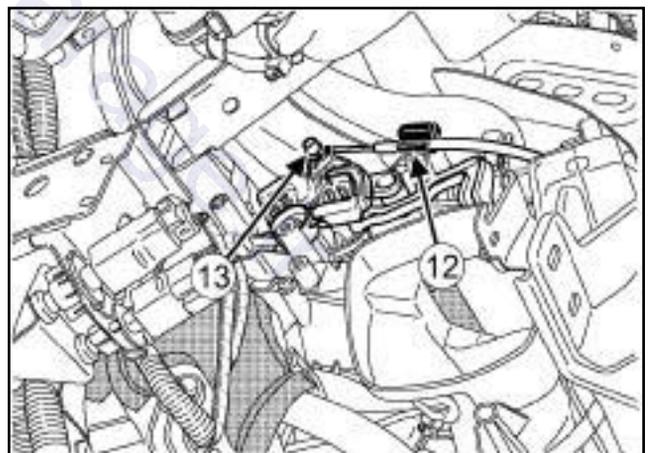
- ❑

Note:

Mark the routing of the air distribution cable.

- ❑ Remove:

- the air mixer wiring from the sleeve stop (10) ,
- the retaining ring (11) ,
- the air mixing cable.



131718

- ❑

Note:

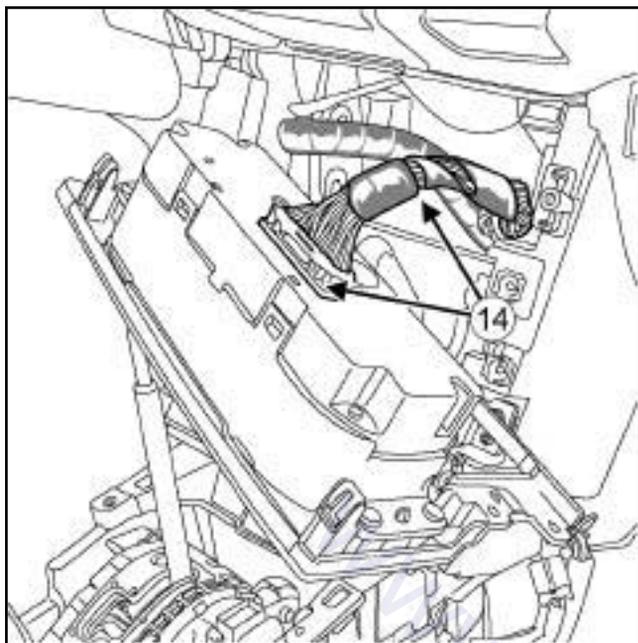
Note the routing of the air distribution cable.

- ❑ Remove:

- the air distribution cable from the sleeve stop (12) ,
- the retaining ring (13) ,
- the air distribution cable.

## Control panel: Removal - Refitting

AIR CON 01 or BASIC HEATING



131719

- Disconnect the connectors (14) .
- Remove the control panel.

**REFITTING****I - REFITTING OPERATION FOR PART CONCERNED**

- Refit the control panel.
- Connect the connectors (14) .
- Refit:
  - the air distribution cable,
  - the air distribution cable to the sleeve stop,
  - the retaining ring,
  - the air mixer cable.
  - the air mixer cable to the sleeve stop,
  - the retaining ring,
  - the bolts (9) .

**II - FINAL OPERATION.**

- Refit:
  - the cover (8) ,
  - the bolts (7) ,
  - the radio (see **Car radio: Removal - Refitting**) (86A, Radio),
  - the CD changer (see **CD changer: Removal - Refitting**) (86A, Radio),

- the side centre panel side trims (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
- the glovebox (see **Glovebox: Removal - Refitting**) ( 57A, Interior equipment),
- the dashboard lower cover on the driver's side (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
- the lower covers (3) from the centre panel (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
- the gear lever plate (see **Centre console: Removal - Refitting**) (57A, Interior equipment),
- the centre panel side trims.

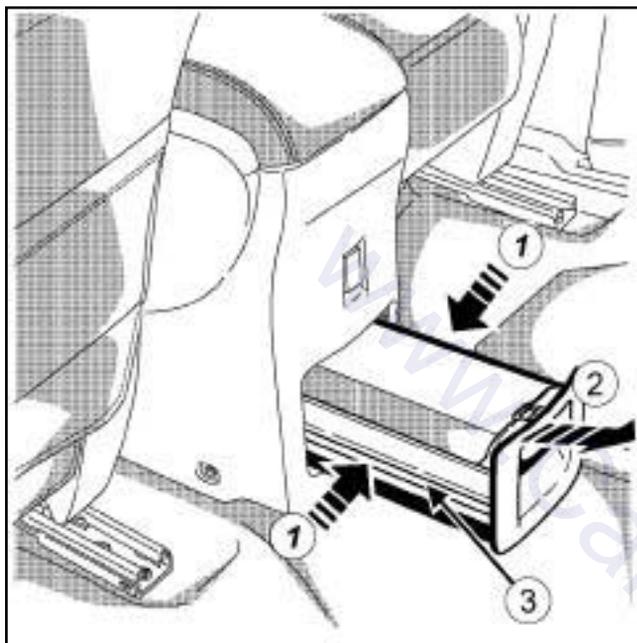
Rear control panel: Removal - Refitting

REAR SEATS AIR DUCT

REMOVAL

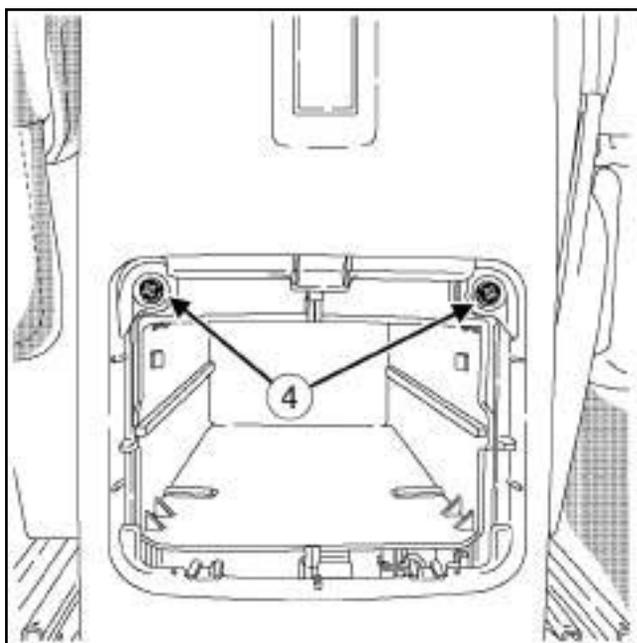
I - REMOVAL PREPARATION OPERATION

- Remove the rear seat (see **Complete rear seat: Removal - Refitting**) (76A, Rear seat frames and seat runners).



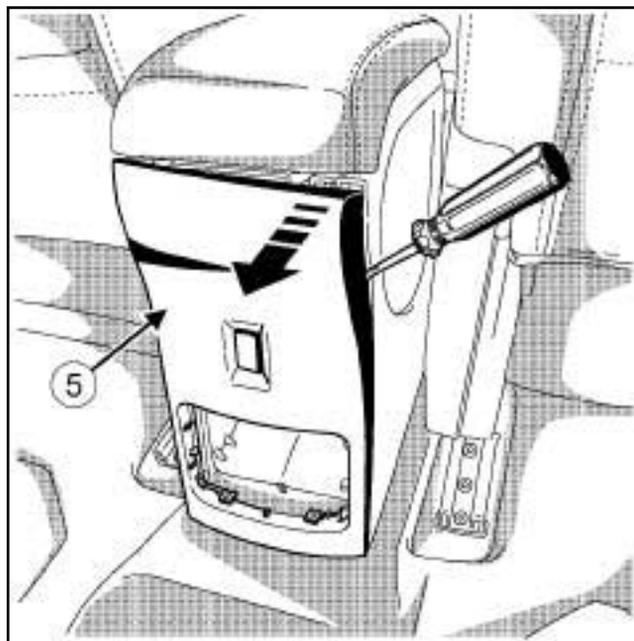
132797

- Remove the rear storage compartment from the centre console (3) in the direction of (2) by pushing at (1).



132798

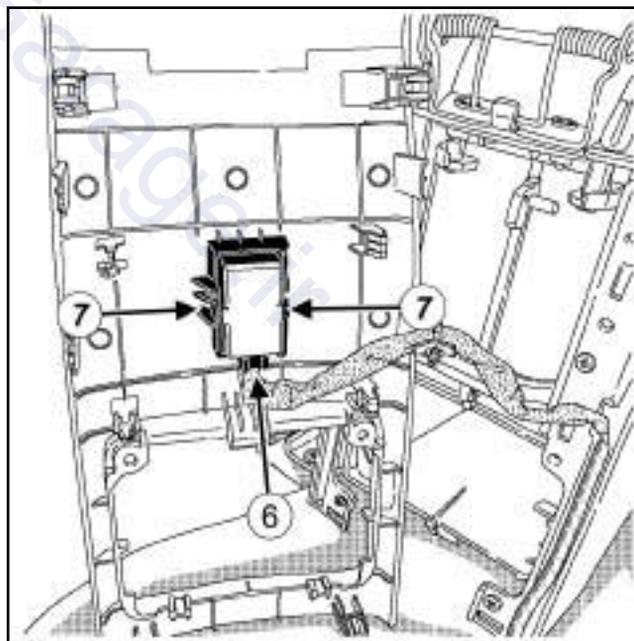
- Remove the bolts (4).



132799

- Remove the rear cover (5) from the centre console using a flat-blade screwdriver.

II - OPERATION FOR REMOVAL OF PART CONCERNED



132800

- Disconnect the connector (6).
- Unclip the clips (7).
- Remove the rear control panel.

## Rear control panel: Removal - Refitting

REAR SEATS AIR DUCT

## REFITTING

## I - REFITTING OPERATION FOR PART

## CONCERNED

- Refit the rear control panel.
- Attach the clips.
- Connect the connector.

## II - FINAL OPERATION.

- Refit:
  - the centre console rear cover,
  - the bolts (4) ,
  - the centre console rear storage compartment,
  - the rear seat (see **Complete rear seat: Removal - Refitting**) (76A, Rear seat frames and seat runners).

# Front side air distribution duct: Removal - Refitting

LEFT-HAND DRIVE

## REMOVAL

### I - REMOVAL PREPARATION OPERATION



#### IMPORTANT

To prevent the pyrotechnic components from being permanently deactivated or triggered (airbags or pretensioners), wait for at least **3 minutes** after disconnecting the battery.

- Disconnect the battery (see **Battery: Removal - Refitting**) (80A, Battery).

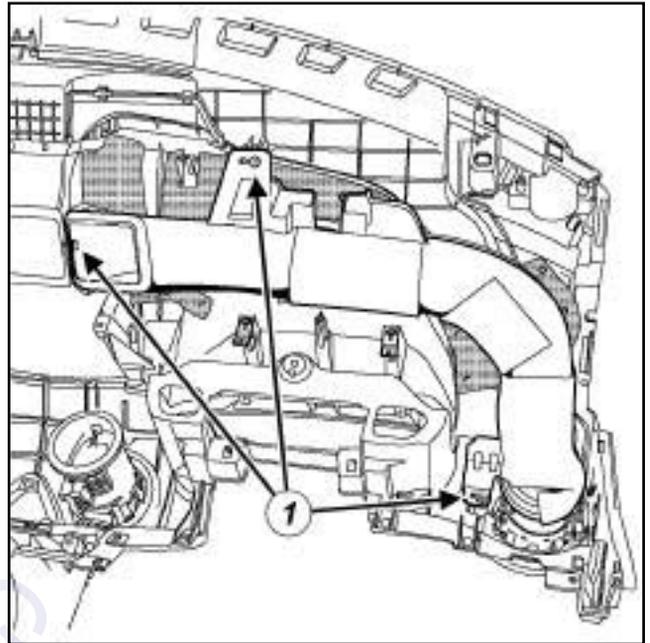
- Remove:

- the driver's front airbag (see **Driver's front airbag: Removal - Refitting**) (88C, Airbags and pretensioners),
- the steering wheel (see **Steering wheel: Removal - Refitting**) (36A, Steering assembly),
- the rotary switch (see **Rotary switch: Removal - Refitting**) (84A, Controls - Signalling),
- the steering column switch assembly (see **Steering wheel controls assembly: Removal - Refitting**) (84A, Controls - Signalling),
- the instrument panel (see **Instrument panel: Removal - Refitting**) (83A, Instrument panel),
- the solar radiation detector (see **61A, Heating, Insolation sensor: Removal - Refitting**, page 61A-76),
- the tweeter (see **Tweeter: Removal - Refitting**) (86A, Radio),
- the front speaker (see **Front speakers: Removal - Refitting**) (86A, Radio),
- the display (see **Display: Removal - Refitting**) (86A, Radio),
- the navigation screen (see **Navigation screen: Removal - Refitting**) (83C, Onboard telematics system),
- the CD changer (see **CD changer: Removal - Refitting**) (86A, Radio),
- the radio (see **Car radio: Removal - Refitting**) (86A, Radio),
- the control panel (see **61A, Heating, Control panel: Removal - Refitting**, page 61A-48),
- the starter control panel (see **Card reader: Removal - Refitting**) (82A, Immobiliser),
- the central console (see **Centre console: Removal - Refitting**) (57A, Interior equipment),

- the dashboard (see **Dashboard: Removal - Refitting**) (57A, Interior equipment).

### II - OPERATION FOR REMOVAL OF PART CONCERNED

#### 1 - Front left-hand air distribution duct



131292

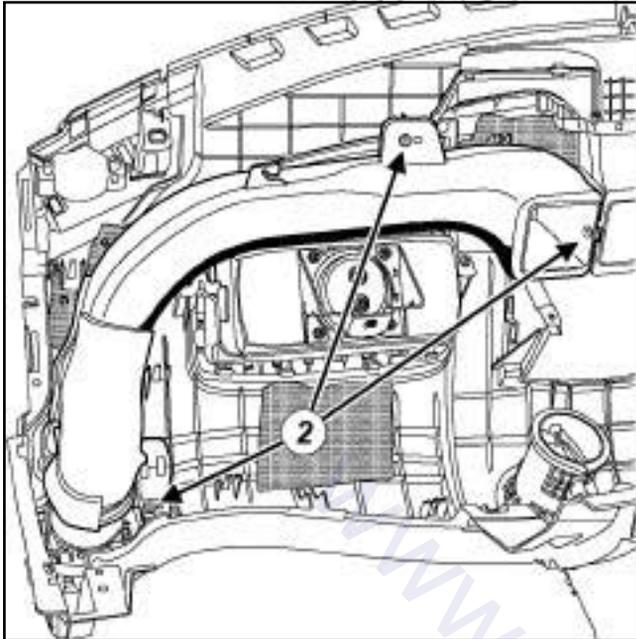
- Remove:

- the bolts (1),
- the front left-hand air distribution duct.

## Front side air distribution duct: Removal - Refitting

LEFT-HAND DRIVE

### 2 - Front right-hand air distribution duct



131293

Remove:

- the bolts (2) ,
- the front right-hand air distribution duct.

## REFITTING

### I - REFITTING OPERATION FOR PART CONCERNED

#### 1 - Front left-hand air distribution duct

Remove:

- the front left-hand air distribution duct,
- the front left-hand air distribution duct bolts.

#### 2 - Front right-hand air distribution duct

Remove:

- the front right-hand air distribution duct,
- the front right-hand air distribution duct bolts.

### II - FINAL OPERATION.

Refit:

- the dashboard (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
- the central console (see **Centre console: Removal - Refitting**) (57A, Interior equipment),

- the starter control panel (see **Card reader: Removal - Refitting**) (82A, Immobiliser),
  - the control panel (see **61A, Heating, Control panel: Removal - Refitting**, page 61A-48)
  - the radio (see **Car radio: Removal - Refitting**) (86A, Radio),
  - the CD changer (see **CD changer: Removal - Refitting**) (86A, Radio),
  - the navigation screen (see **Navigation screen: Removal - Refitting**) (83C, Onboard telematics system),
  - the display (see **Display: Removal - Refitting**) (86A, Radio),
  - the front speaker (see **Front speakers: Removal - Refitting**) (86A, Radio),
  - the tweeter (see **Tweeter: Removal - Refitting**) (86A, Radio),
  - the solar radiation detector (see **61A, Heating, Insolation sensor: Removal - Refitting**, page 61A-76) ,
  - the instrument panel (see **Instrument panel: Removal - Refitting**) (83A, Instrument panel),
  - the steering column switch assembly (see **Steering wheel controls assembly: Removal - Refitting**) (84A, Controls - Signalling),
  - the rotary switch (see **Rotary switch: Removal - Refitting**) (84A, Controls - Signalling),
  - the steering wheel (see **Steering wheel: Removal - Refitting**) (36A, Steering assembly),
  - the driver's front airbag (see **Driver's front airbag: Removal - Refitting**) (88C, Airbags and pretensioners).
- Connect the battery (see **Battery : Removal - Refitting**) (80A, Battery).

Front central air distribution duct: Removal - Refitting

LEFT-HAND DRIVE

REMOVAL

I - REMOVAL PREPARATION OPERATION

□

**IMPORTANT**

To prevent the pyrotechnic components from being permanently deactivated or triggered (air-bags or pretensioners), wait for at least **3 min** after disconnecting the battery.

□ Disconnect the battery (see **Battery: Removal - Refitting**) (80A, Battery).

□ Remove:

- the driver's front airbag (see **Driver's front airbag: Removal - Refitting**) (88C, Airbags and pretensioners),

- the steering wheel (see **Steering wheel: Removal - Refitting**) (36A, Steering assembly),

- the rotary switch (see **Rotary switch: Removal - Refitting**) (84A, Controls - Signalling),

- the steering column switch assembly (see **Steering wheel controls assembly: Removal - Refitting**) (84A, Controls - Signalling),

- the instrument panel (see **Instrument panel: Removal - Refitting**) (83A, Instrument panel),

- the solar radiation detector (see **61A, Heating, Insolation sensor: Removal - Refitting**, page 61A-76),

- the tweeter (see **Tweeter: Removal - Refitting**) (86A, Radio),

- the front speaker (see **Front speakers: Removal - Refitting**) (86A, Radio),

- the display (see **Display: Removal - Refitting**) (86A, Radio),

- the navigation screen (see **Navigation screen: Removal - Refitting**) (83C, On-board telematics system),

- the CD changer (see **CD changer: Removal - Refitting**) (86A, Radio),

- the radio (see **Car radio: Removal - Refitting**) (86A, Radio),

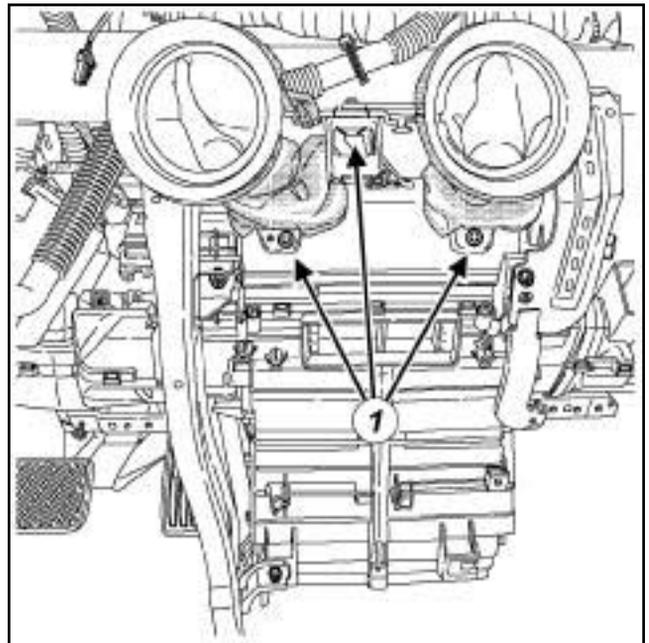
- the control panel (see **61A, Heating, Control panel: Removal - Refitting**, page 61A-48),

- the starter control panel (see **Card reader: Removal - Refitting**) (82A, Immobiliser),

- the central console (see **Centre console: Removal - Refitting**) (57A, Interior equipment),

- the dashboard (see **Dashboard: Removal - Refitting**) (57A, Interior equipment).

II - OPERATION FOR REMOVAL OF PART CONCERNED



131296

□ Remove:

- the bolts (1) from the front centre air distribution duct,

- the front centre air distribution duct.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

□ Refit:

- the front centre air distribution duct.

- the bolts for the front central air distribution duct.

II - FINAL OPERATION.

□ Refit:

- the dashboard (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),

- the central console (see **Centre console: Removal - Refitting**) (57A, Interior equipment),

- the control panel (see **61A, Heating, Control panel: Removal - Refitting**, page 61A-48),

- the starter control panel (see **Card reader: Removal - Refitting**) (82A, Immobiliser),

## Front central air distribution duct: Removal - Refitting

## LEFT-HAND DRIVE

- the radio (see **Car radio: Removal - Refitting**) (86A, Radio),
  - the CD changer (see **CD changer: Removal - Refitting**) (86A, Radio),
  - the navigation screen (see **Navigation screen: Removal - Refitting**) (83C, On-board telematics system),
  - the display (see **Display: Removal - Refitting**) (86A, Radio),
  - the front speaker (see **Front speakers: Removal - Refitting**) (86A, Radio),
  - the tweeter (see **Tweeter: Removal - Refitting**) (86A, Radio),
  - the solar radiation detector (see **61A, Heating, Insolation sensor: Removal - Refitting**, page **61A-76**),
  - the instrument panel (see **Instrument panel: Removal - Refitting**) (83A, Instrument panel),
  - the steering column switch assembly (see **Steering wheel controls assembly: Removal - Refitting**) (84A, Controls - Signalling),
  - the rotary switch (see **Rotary switch: Removal - Refitting**) (84A, Controls - Signalling),
  - the steering wheel (see **Steering wheel: Removal - Refitting**) (36A, Steering assembly),
  - the driver's front airbag (see **Driver's front airbag: Removal - Refitting**) (88C, Airbags and pretensioners).
- Connect the battery (see **Battery : Removal - Refitting**) (80A, Battery).

# A-pillar air distribution duct: Removal - Refitting

## REMOVAL

### I - REFITTING PREPARATION OPERATION

#### 1 - Driver's side

Remove:

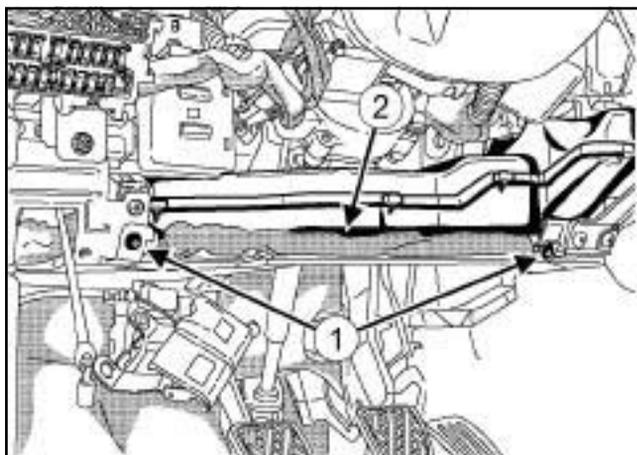
- the dashboard lower cover on the driver's side (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
- the lower cover on the left-hand side of the centre panel (see **Dashboard: Removal - Refitting**) (57A, Interior equipment).

#### 2 - Front passenger side

Remove:

- the glovebox (see **Glovebox: Removal - Refitting**) ( 57A, Interior equipment),
- the lower cover on the right-hand side of the centre panel (see **Dashboard: Removal - Refitting**) (57A, Interior equipment).

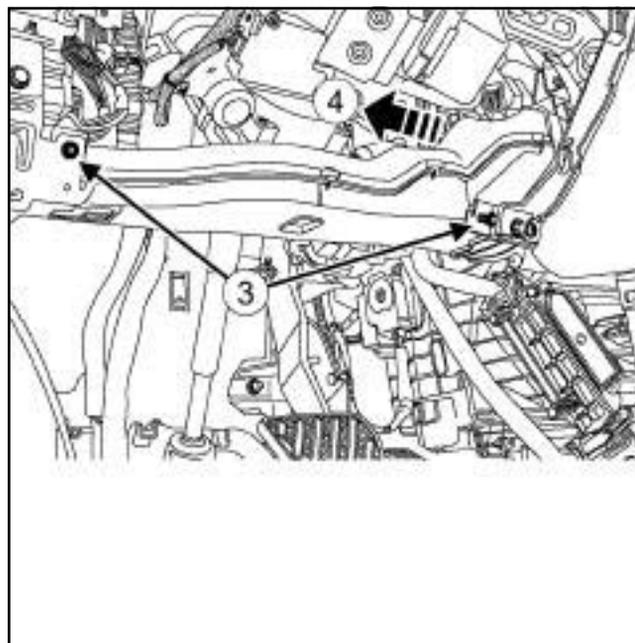
### II - OPERATION FOR REMOVAL OF PART CONCERNED



132356

Remove:

- the bolts (1) ,
- the driver's side lower dashboard trim (2) .

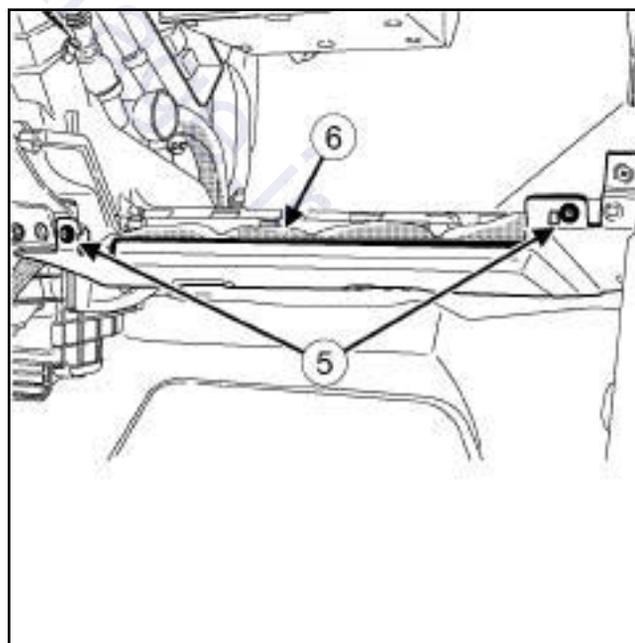


132357

Remove:

- the bolts (3) ,
- the driver's side A pillar air distribution duct in the direction of the arrow (4) .

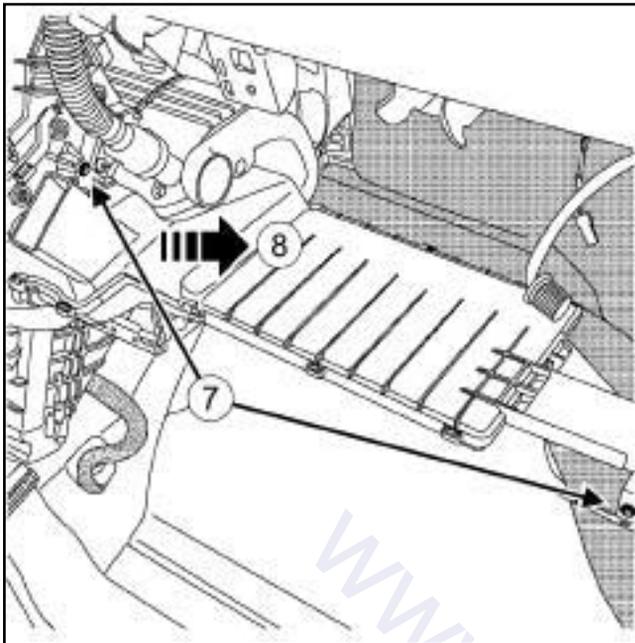
#### 2 - Front passenger side



132358

Remove:

- the bolts (5) ,
- the passenger side lower dashboard trim.

**A-pillar air distribution duct: Removal - Refitting**

132359

 Remove:

- the bolts (7) ,
- the passenger side A pillar air distribution duct in the direction of the arrow (8) .

**REFITTING****1 - Driver's side** Refit:

- the driver's side A pillar air distribution duct,
- the bolts for the A pillar air distribution duct on the driver's side,
- the driver's side lower dashboard trim,
- the dashboard lower trim bolts on the driver's side.

**2 - Front passenger side** Refit:

- the passenger side A pillar air distribution duct,
- the bolts for the A pillar air distribution duct on the passenger side,
- the passenger side lower dashboard trim,
- the dashboard lower trim bolts on the passenger side.

**II - FINAL OPERATION.****1 - Driver's side** Refit:

- the lower cover on the left-hand side of the centre panel (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
- the dashboard lower cover on the driver's side (see **Dashboard: Removal - Refitting**) (57A, Interior equipment).

**2 - Front passenger side** Remove:

- the lower cover on the right-hand side of the centre panel (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
- the glovebox (see **Glovebox: Removal - Refitting**) (57A, Interior equipment).

## Recirculation motor: Removal - Refitting

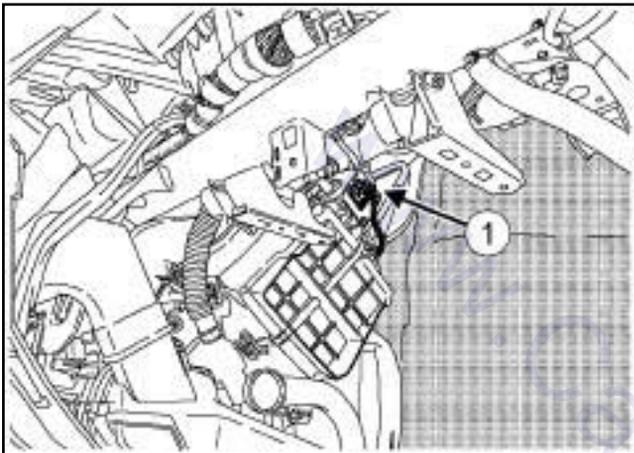
LEFT-HAND DRIVE, and AIR CON 02

## REMOVAL

## I - REMOVAL PREPARATION OPERATION

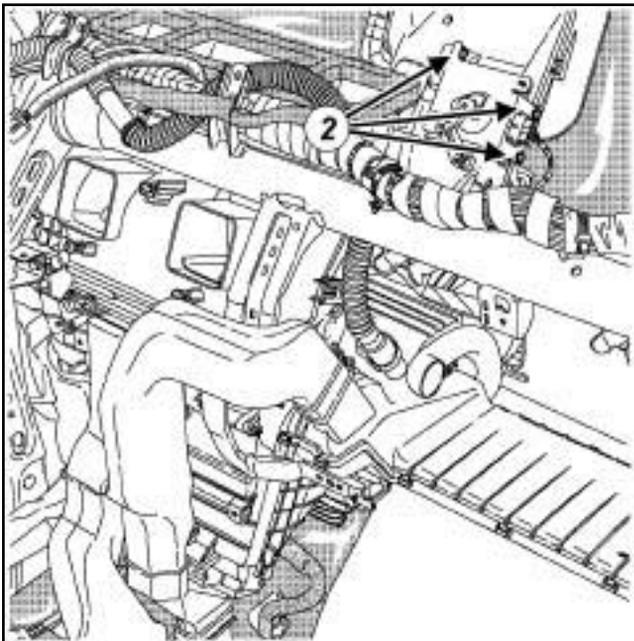
- Remove the glovebox (see **Glovebox: Removal - Refitting**) (57A, Interior equipment).

## II - OPERATION FOR REMOVAL OF PART CONCERNED



131298

- Disconnect the connector (1) .



131299

- Remove:
  - the bolts (2) ,
  - the recirculation motor.

## REFITTING

## I - REFITTING OPERATION FOR PART CONCERNED

- Refit:
  - the recirculation motor,
  - the recirculation motor bolts.
- Connect the recirculation motor connector.

## II - FINAL OPERATION.

- Refit the glovebox (see **Glovebox: Removal - Refitting**) (57A, Interior equipment).

## Mixer motor: Removal - Refitting

LEFT-HAND DRIVE, and AIR CON 02

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

##### 1 - Left-hand mixer motor

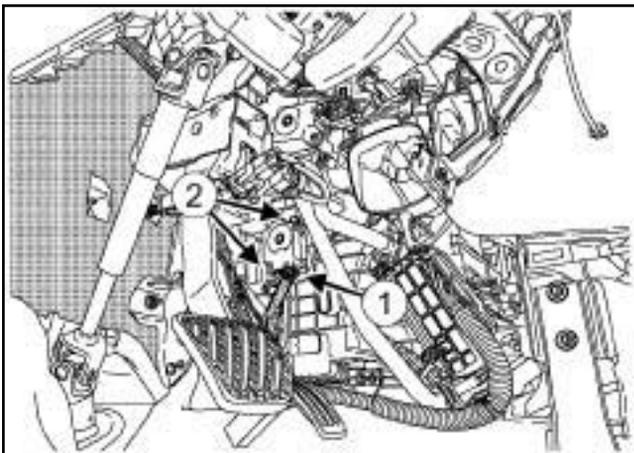
- Remove:
  - the dashboard lower cover on the driver's side (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
  - the centre panel lower left-hand cover,
  - the A pillar air distribution duct (see **61A, Heating, A-pillar air distribution duct: Removal - Refitting**, page 61A-64) .

##### 2 - Right-hand mixer motor

- Remove:
  - the glovebox (see **Glovebox: Removal - Refitting**) ( 57A, Interior equipment),
  - the centre panel lower left-hand cover
  - the A pillar air distribution duct (see **61A, Heating, A-pillar air distribution duct: Removal - Refitting**, page 61A-64) .

#### II - OPERATION FOR REMOVAL OF PART CONCERNED

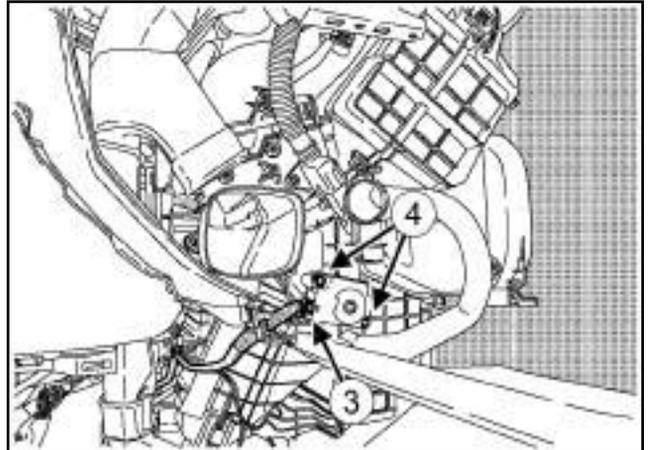
##### 1 - Left-hand mixer motor



132801

- Disconnect the connector (1) .
- Remove:
  - the bolts (2) ,
  - the left-hand mixer motor.

##### 2 - Right-hand mixer motor



132802

- Disconnect the connector (3) .
- Remove:
  - the bolts (4) ,
  - the right-hand mixer motor.

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

- Refit:
  - the air mixing motor,
  - the air mixing motor bolts.
- Connect the air mixing motor connector.

#### II - FINAL OPERATION.

##### 1 - Left-hand mixer motor

- Refit:
  - the A pillar air distribution duct (see **61A, Heating, A-pillar air distribution duct: Removal - Refitting**, page 61A-64) .
  - the centre panel lower left-hand cover,
  - the dashboard lower cover on the driver's side (see **Dashboard: Removal - Refitting**) (57A, Interior equipment).

##### 2 - Right-hand mixer motor

- Refit:
  - the A pillar air distribution duct (see **61A, Heating, A-pillar air distribution duct: Removal - Refitting**, page 61A-64) .

## Mixer motor: Removal - Refitting

LEFT-HAND DRIVE, and AIR CON 02

- the centre panel lower left-hand cover,
- the glovebox (see **Glovebox: Removal - Refitting**) (57A, Interior equipment).

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Distribution motor: Removal - Refitting

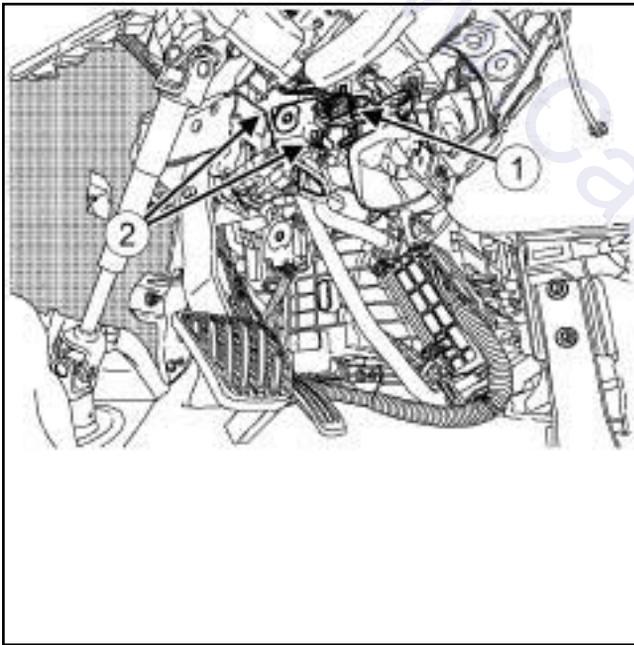
AIR CON 02

**REMOVAL**

**I - REMOVAL PREPARATION OPERATION**

- Remove:
  - the dashboard lower cover on the driver's side (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
  - the lower cover on the left-hand side of the centre panel (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
  - the A pillar air distribution duct (see **61A, Heating, A-pillar air distribution duct: Removal - Refitting**, page 61A-64) .

**II - OPERATION FOR REMOVAL OF PART CONCERNED**



131301

- Disconnect the connector (1) .
- Remove:
  - the bolts (2) ,
  - the distribution motor.

**REFITTING**

**I - REFITTING OPERATION FOR PART CONCERNED**

- Refit:
  - the distribution motor,
  - the distribution motor bolts.

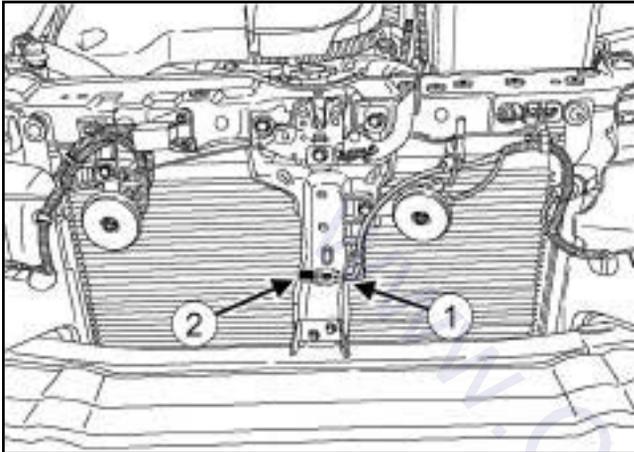
- Connect the connector.

**II - FINAL OPERATION.**

- Refit:
  - the A pillar air distribution duct (see **61A, Heating, A-pillar air distribution duct: Removal - Refitting**, page 61A-64) .
  - the lower cover on the left-hand side of the centre panel (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
  - the dashboard lower cover on the driver's side (see **Dashboard: Removal - Refitting**) (57A, Interior equipment).

**External temperature sensor: Removal - Refitting****REMOVAL****I - REMOVAL PREPARATION OPERATION**

- the radiator grille (see **Radiator grille: Removal - Refitting**) (56A, Exterior equipment).

**II - OPERATION FOR REMOVAL OF PART CONCERNED**

131309

- Disconnect the connector (1) .
- Unclip the external temperature sensor ( 2) using a flat-blade screwdriver.

**REFITTING****I - REFITTING OPERATION FOR PART CONCERNED**

- Refit the external temperature sensor.
- Connect the connector.

**II - FINAL OPERATION.**

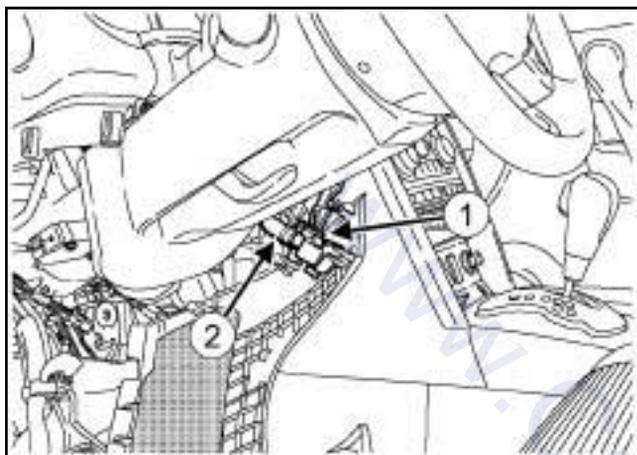
- Refit the radiator grille (see **Radiator grille: Removal - Refitting**) (56A, Exterior equipment).

## REMOVAL

### I - REMOVAL PREPARATION OPERATION

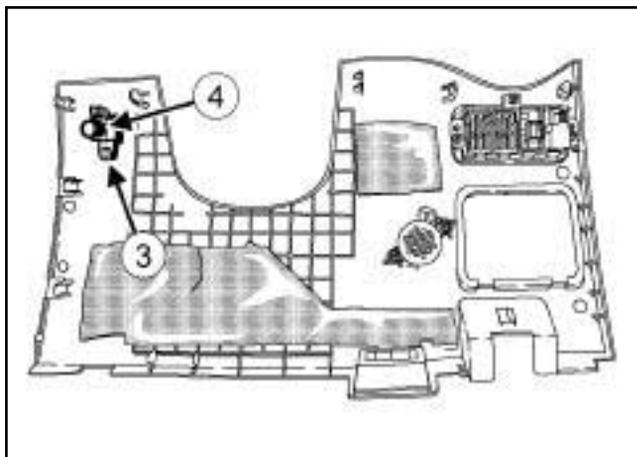
- Remove the dashboard lower cover on the driver's side (see **Dashboard: Removal - Refitting**) (57A, Interior equipment).

### II - OPERATION FOR REMOVAL OF PART CONCERNED



131302

- Disconnect:
  - the connector (1) ,
  - the pipe (2) from the sensor.



131303

- Remove:
  - the bolt (3) ,
  - the passenger compartment temperature sensor (4) .

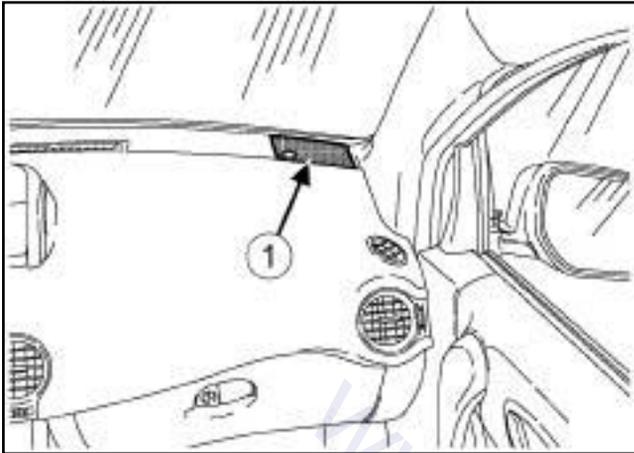
## REFITTING

### I - REFITTING OPERATION FOR PART CONCERNED

- Refit:
  - the passenger compartment temperature sensor,
  - the passenger compartment temperature sensor bolt.
- Connect:
  - the pipe to the sensor,
  - the connector.

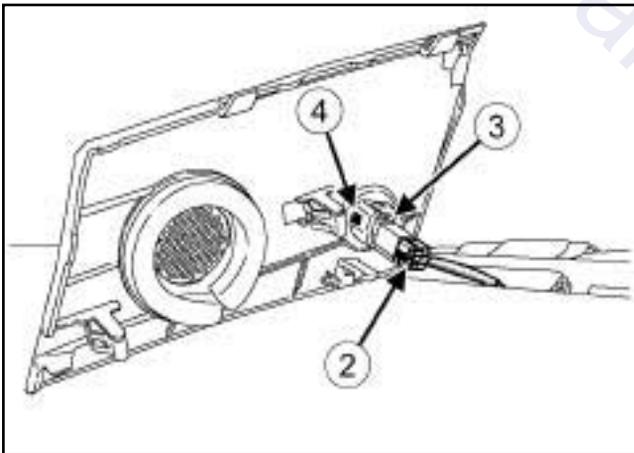
### II - FINAL OPERATION.

- Refit the dashboard lower cover on the driver's side (see **Dashboard: Removal - Refitting**) (57A, Interior equipment).

**Insolation sensor: Removal - Refitting****REMOVAL****I - REMOVAL PREPARATION OPERATION**

132850

- Remove the grille (1) .

**II - OPERATION FOR REMOVAL OF PART CONCERNED**

132851

- Disconnect the connector (2) .
- Unclip the solar radiation sensor (3) at (4) .

**REFITTING****I - REFITTING OPERATION FOR PART CONCERNED**

- Refit the solar radiation sensor.
- Connect the solar radiation sensor connector.

**II - FINAL OPERATION.**

- Refit the grille.