

# RENAULT

## 8 Electrical equipment

80A BATTERY

80B HEADLIGHTS

81A REAR LIGHTING

81B INTERIOR LIGHTING

81C FUSES

82A ENGINE IMMOBILISER

82B HORN

83A INSTRUMENT PANEL

84A CONTROL - SIGNALS

85A WIPING - WASHING

86A RADIO

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X79

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NOVEMBER 2009

EDITION ANGLAISE

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

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

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**87B**

**PASSENGER COMPARTMENT CONNECTION  
UNIT**

**87D**

**ELECTRIC WINDOWS - SUNROOF**

**87G**

**ENGINE COMPARTMENT CONNECTION UNIT**

**88A**

**WIRING HARNESS**

**88C**

**AIR BAG AND PRETENSIONERS**

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**X79**

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**NOVEMBER 2009**

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# DUSTER - Chapitre 8

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**88C**

## **AIR BAG AND PRETENSIONERS**

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## Battery: Precautions for the repair

### I - SAFETY

#### 1 - DANGER: RISK FROM ACID LINKED TO HANDLING

Sulphuric acid is a highly aggressive and toxic substance which corrodes most metals.

When handling batteries, it is very important to take the following precautions:

- protect your eyes by wearing goggles,
- wear acid-proof gloves and clothing.

#### IMPORTANT

A battery contains sulphuric acid, a dangerous substance.

If acid splashes on to your clothing, rinse all contaminated areas thoroughly in water.

If it comes into contact with the skin or eyes, seek medical attention.

#### 2 - DANGER: RISK OF EXPLOSION LINKED TO CHARGING AND TO INCORRECT TIGHTENING OF THE TERMINALS.

#### IMPORTANT

To prevent damaging the battery or even causing it to explode, do not place any heat sources or create any sparks near a charging battery.

#### WARNING

Incorrect tightening could cause heating of contacts, starting or charging faults, sparking, or could cause the battery to explode.

When a battery is charging, oxygen and hydrogen are produced. The mixture of these two gases is explosive.

The smallest of sparks or heat sources can cause an explosion. The explosion is so strong that the battery can shatter and spray the acid into the surrounding atmosphere.

People nearby are at risk (exploded fragments, acid splashes). Acid splashes are dangerous. They also damage clothing.

Safeguarding against the danger of explosion, which can be caused by handling a battery carelessly, must be taken very seriously.

#### IMPORTANT

To avoid all risk of sparks, ensure that all electrical consumers are fully switched off.

When a battery is being charged inside a building, switch off the charger before connecting or disconnecting the battery.

Do not place any metallic items on the battery as this may create a short circuit across the terminals.

Never hold a naked flame, welding gun, blowtorch, cigarette or lighted match near to a battery.

### II - GENERAL RECOMMENDATIONS

#### WARNING

These vehicles are equipped with a battery with low water consumption. Topping up the electrolyte is therefore prohibited.

#### WARNING

Before disconnecting the battery:

- wait for the motor-driven fan assembly to stop,
- wait for the computer to finish saving (**1 minute**).


#### WARNING

Some vehicles are only fitted with «TB» (low height) batteries. To avoid damaging the bonnet, only refit a battery which is identical to the battery originally fitted.

# BATTERY

## Battery: Removal - Refitting

# 80A

Tightening torques 	
battery bracket bolt	12 Nm
bolt on the positive battery terminal	6 N.m
negative battery terminal nut	6 N.m

### IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **80A, Battery, Battery: Precautions for the repair**, page **80A-1**).

## REMOVAL

### I - REMOVAL PREPARATION OPERATION

- Switch off the ignition.

### WARNING

Before disconnecting the battery:

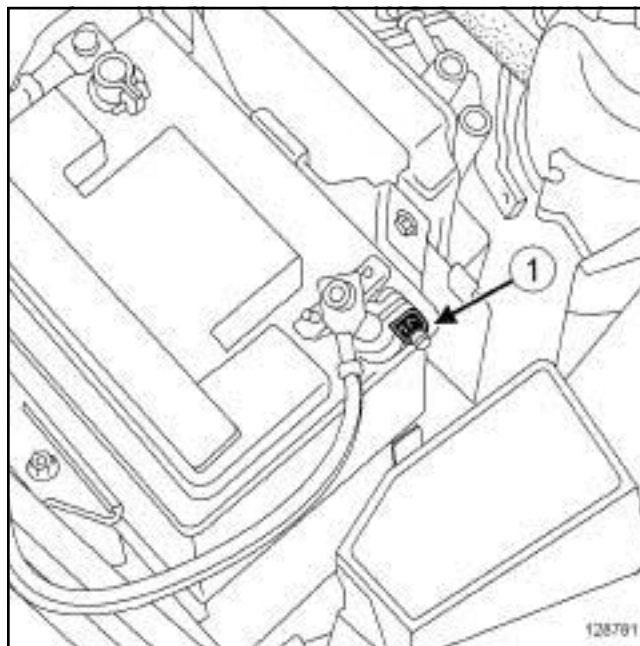
- wait for the motor-driven fan assembly to stop,
- wait for the computer to finish saving (**1 minute**).

### WARNING

The visual indicator cannot be considered reliable in After-Sales; do not use it to determine the state of the battery.

### II - OPERATION FOR REMOVAL OF PART CONCERNED

#### 1 - DISCONNECTING



128781

- Undo the negative battery terminal nut (1).

### Note:

Mark the position of the negative battery terminal.

- Remove the negative battery terminal.

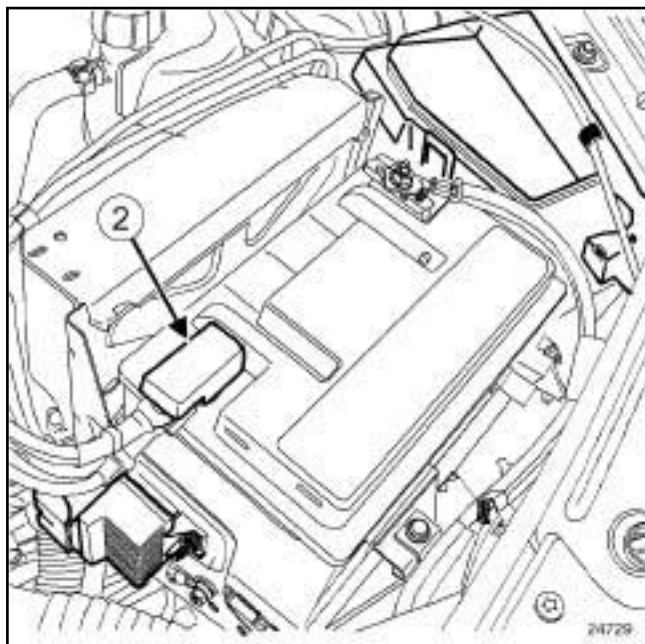


# BATTERY

## Battery: Removal - Refitting

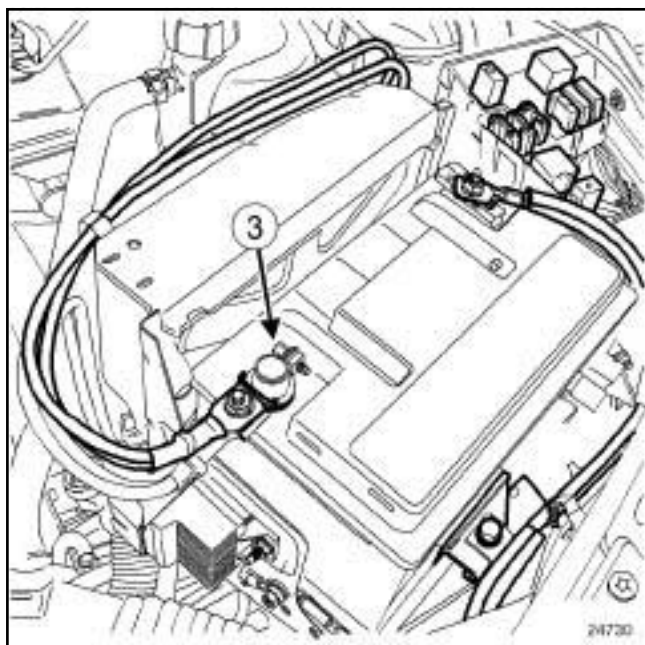
# 80A

### 2 - REMOVAL



24729

- Remove the cover (2) from the positive battery terminal.



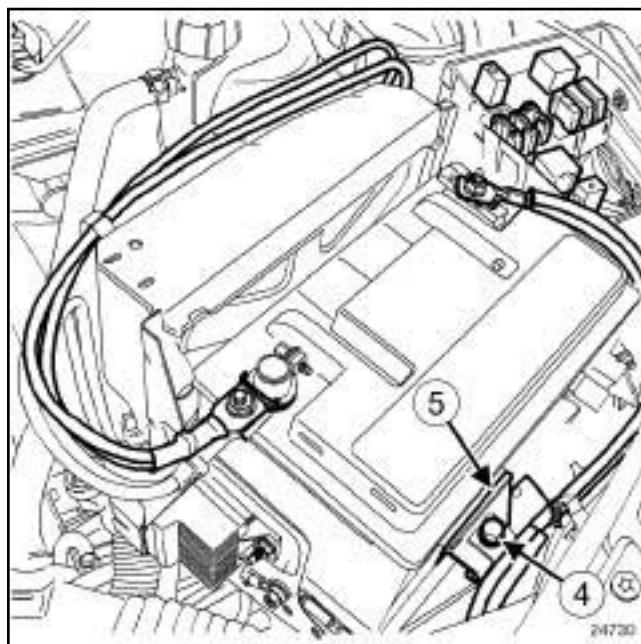
24730

- Loosen the bolt (3) of the positive battery terminal.

Note:

Mark the position of the positive battery terminal.

- Remove the positive battery terminal.



24730

- Remove:
  - the battery clamp bolt (4) ,
  - the mounting clamp (5) ,
  - the battery.

### 3 - REPLACEMENT

- Check that the battery needs replacing (see **Technical Note 6014A, Checking the charging circuit, 16A, Starting-charging, Checking the charging circuit: Tests**).

### REFITTING

#### I - REFITTING PREPARATION OPERATION

- Check the battery (see **Technical Note 9860A, 80A, Battery**).

#### II - REFITTING OPERATION FOR PART CONCERNED

##### 1 - REFITTING

- Position the battery in its housing.
- Refit:
  - the battery mounting clamp,
  - the battery bracket bolt.
- Torque tighten the **battery bracket bolt (12 Nm)**.

# BATTERY

## Battery: Removal - Refitting

**80A**

- Push the positive battery terminal fully onto the battery terminal post.

### **WARNING**

Poor contact may cause starting or charging faults, create sparks and cause the battery to explode (see **80A, Battery, Battery: Precautions for the repair, page 80A-1**).

- Torque tighten the **bolt on the positive battery terminal (6 N.m)**.
- Refit the positive terminal cover.

## **2 - CONNECTION**

- Push the negative battery terminal fully onto the battery terminal post.

### **WARNING**

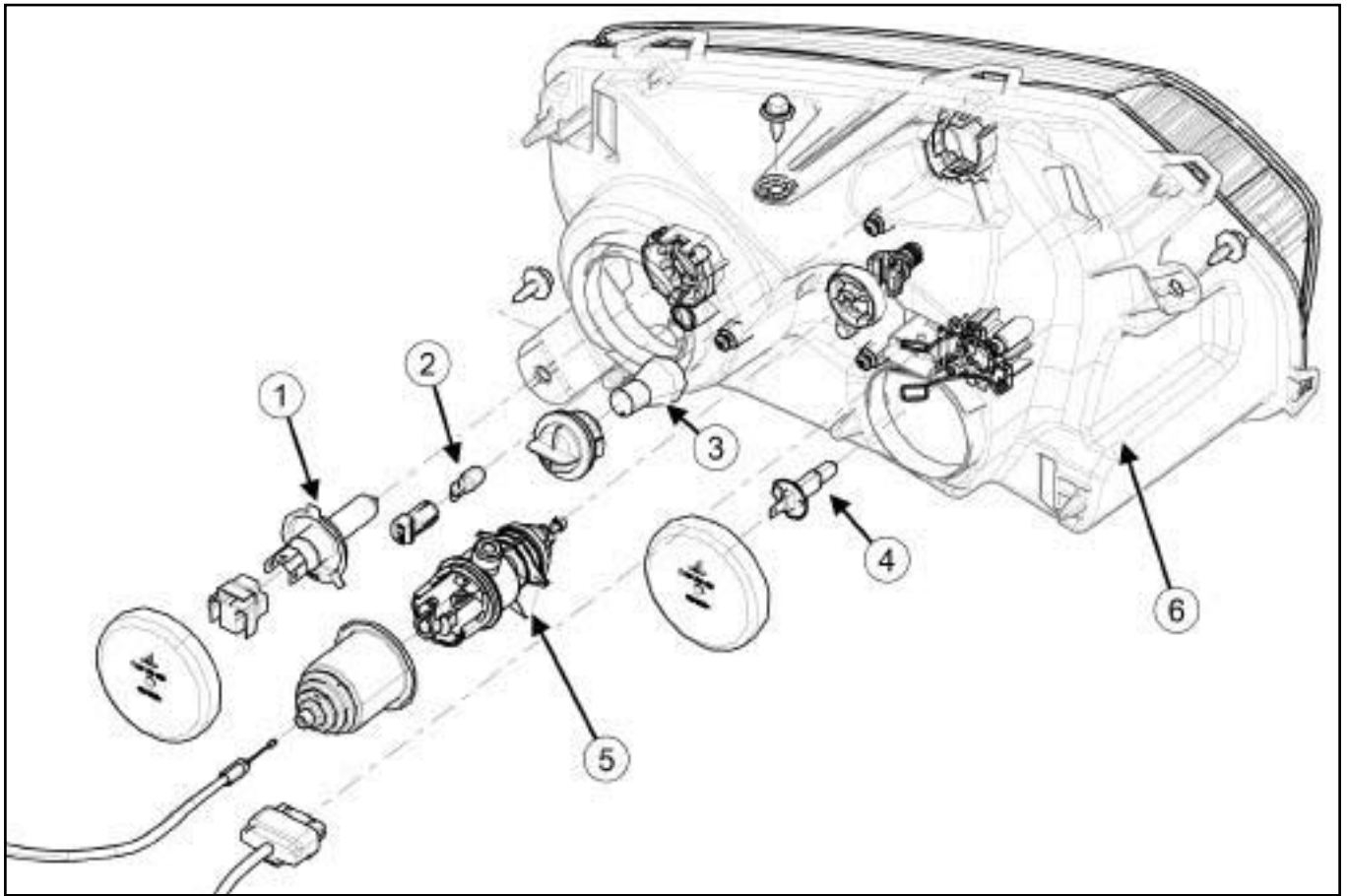
Poor contact may cause starting or charging faults, create sparks and cause the battery to explode (see **80A, Battery, Battery: Precautions for the repair, page 80A-1**).

- Torque tighten the **negative battery terminal nut (6 N.m)**.

# HEADLIGHTS

## Headlight assembly: Exploded view

# 80B



143999

1	Main beam headlight bulbs	(see <b>80B, Headlights, Headlight bulb: Removal - Refitting</b> , page <b>80B-5</b> )
2	Side light bulb	
3	Direction indicator bulb	
4	Dipped beam headlight bulb	
5	Headlight beam adjustment actuator	(see <b>80B, Headlights, Remote headlight beam adjustment actuator: Removal - Refitting</b> , page <b>80B-9</b> )
6	Headlight	(see <b>80B, Headlights, Headlight: Removal - Refitting</b> , page <b>80B-2</b> )

## Headlight: Removal - Refitting

Location and specifications (tightening torques, parts always to be replaced, etc.) (see **80B, Headlights, Headlight assembly: Exploded view**, page **80B-1**)

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

- Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (02A, Lifting equipment).
- Switch off the ignition.
- Remove the front bumper (see **Front bumper assembly: Exploded view**) (55A, Exterior protection).

#### II - REMOVAL OPERATION

- Disconnect the headlight connector.
- Remove (see **80B, Headlights, Headlight assembly: Exploded view**, page **80B-1**) :
  - the headlight beam adjustment actuator,
  - the headlight.

#### When replacing the headlight

- Remove the headlight bulbs (see **80B, Headlights, Headlight assembly: Exploded view**, page **80B-1**)

### REFITTING

#### I - REFITTING PREPARATION OPERATION

#### When replacing the headlight

- Refit the headlight bulbs (see **80B, Headlights, Headlight assembly: Exploded view**, page **80B-1**)

#### II - REFITTING OPERATION

- Proceed in the reverse order to removal.
- Adjust the headlights (see **80B, Headlights, Headlight: Adjustment**, page **80B-3**) .

# HEADLIGHTS

## Headlight: Adjustment

# 80B

### Equipment required

headlight adjustment and checking tool

## ADJUSTMENT

### I - PREPARATION OPERATION FOR CHECK

- Place the vehicle on a level horizontal working area.
- Do not apply the parking brake.
- Check and inflate the tyres (see ) (35A, Wheels and tyres).
- Open the bonnet.
- Check:
  - that the luggage compartment is empty,
  - that the headlights are clean.

#### Note:

Do not get into the vehicle throughout the operation.

- Position the headlight beam adjustment control at 0.
- Switch on the dipped headlights.

### II - TEST OPERATION

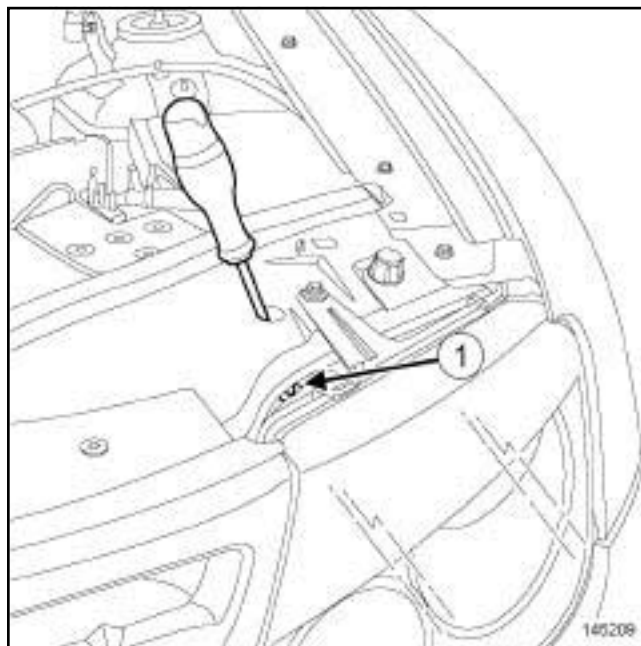
#### WARNING

Consult the device's operating manual to avoid incorrect use.

- Place the **headlight adjustment and checking tool** adjusted to **-1%** in front of the vehicle.
- Using the **headlight adjustment and checking tool**, check the headlight beam adjustment.

### III - ADJUSTMENT OPERATION

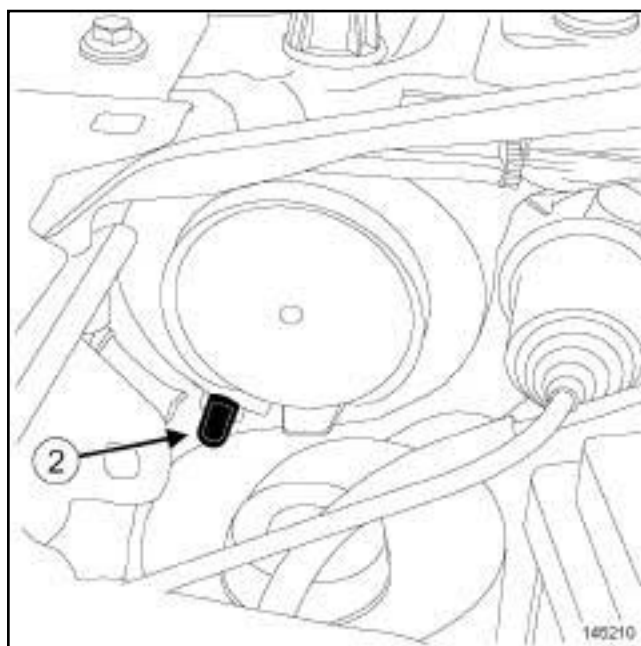
#### 1 - Beam adjustment



145209

- Use the **headlight adjustment and checking tool** to adjust the headlight beam by using the screw (1) .

#### 2 - Horizontal adjustment



145210

- Use the **headlight adjustment and checking tool** to horizontally adjust the headlight by using the screw (2) .

# HEADLIGHTS

## Headlight: Adjustment

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**80B**

### IV - FINAL OPERATION

- Close the bonnet.



## Headlight bulb: Removal - Refitting

Location and specifications (tightening torques, parts always to be replaced, etc.) (see **80B, Headlights, Headlight assembly: Exploded view**, page **80B-1**)

Note:

The operation for removing - refitting the bulbs does not require the headlight to be removed.

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

- Switch off the ignition.

#### II - REMOVAL OPERATION

- Remove the headlight bulbs (see **80B, Headlights, Headlight assembly: Exploded view**, page **80B-1**)

### REFITTING

#### I - REFITTING PREPARATION OPERATION

- 

#### WARNING

To prevent any breakages, handle the bulb by its base. If you should touch the glass, clean it with alcohol and a lint-free cloth.

#### II - REFITTING OPERATION

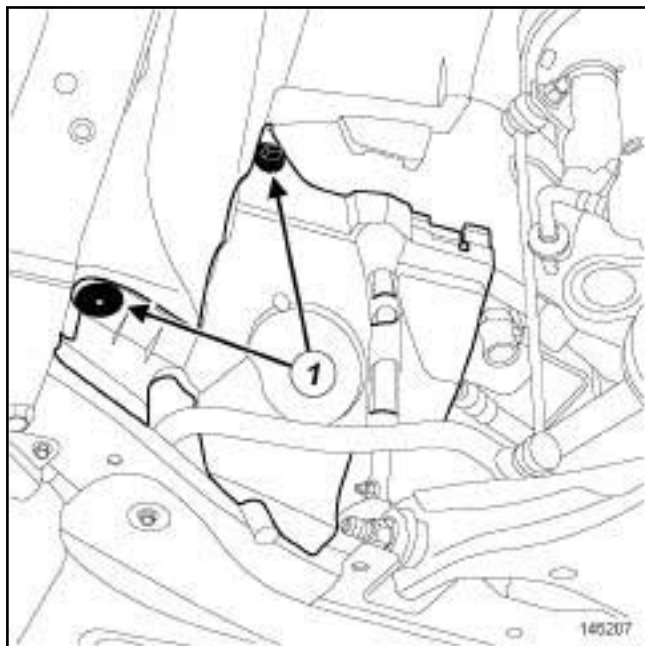
- Proceed in the reverse order to removal.

## Front fog light bulb: Removal - Refitting

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

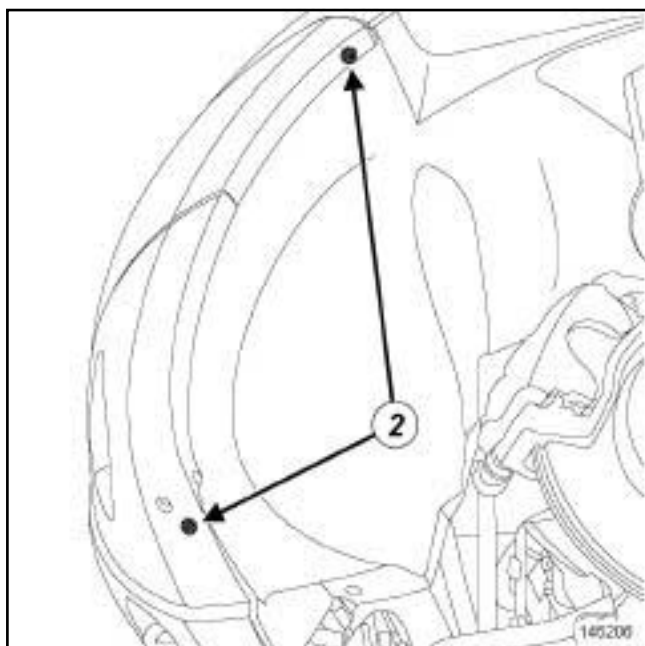
- Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (02A, Lifting equipment).



145207

- Remove:

- the clips (1) ,
- the front wheel arch side liner.

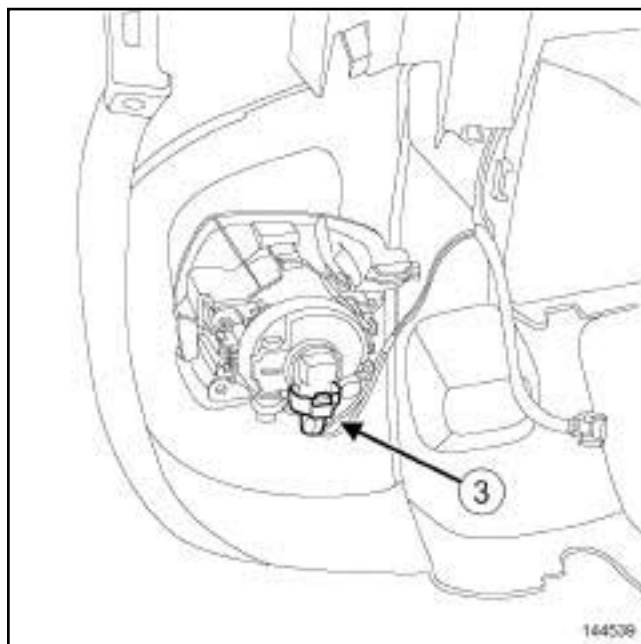


145206

- Remove the bolts (2) .

- Move aside the front wheel arch liner.

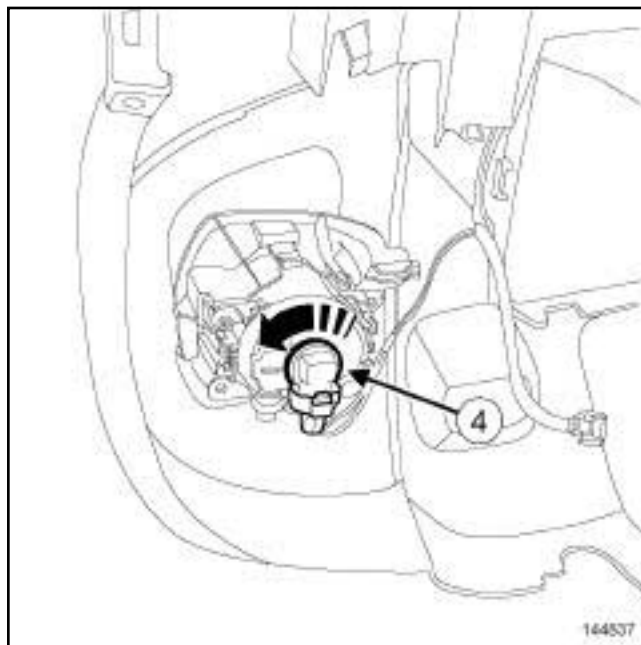
#### II - REMOVAL OPERATION



144539

144539

- Disconnect the front fog light connector (3) .



144837

144837

- Remove the front fog light bulb anticlockwise.

#### REFITTING

- 

Note:

When replacing a bulb, only use approved bulbs.

- Proceed in the reverse order to removal.



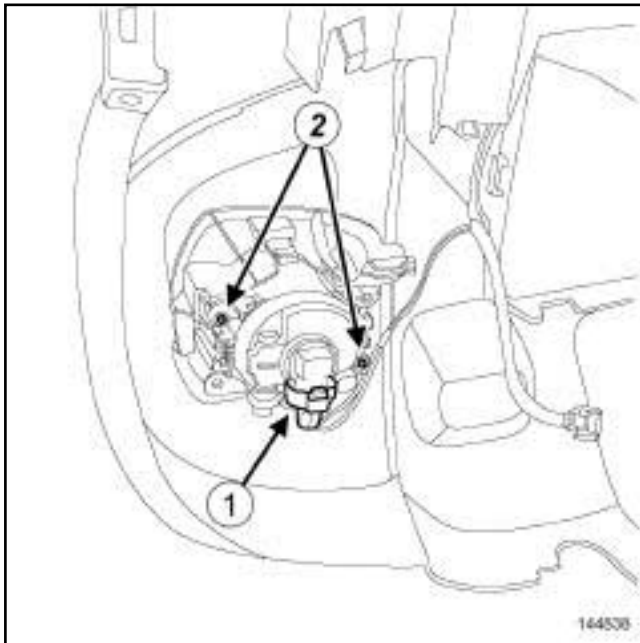
## Front fog light: Removal - Refitting

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

- Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (02A, Lifting equipment).
- Remove the front bumper (see **Front bumper assembly: Exploded view**) (55A, Exterior protection).

#### II - REMOVAL OPERATION



144838

- Disconnect the front fog light connector (1) .
- Remove:
  - the bolts (2) from the front fog light,
  - the front fog light.

#### When replacing the front fog light

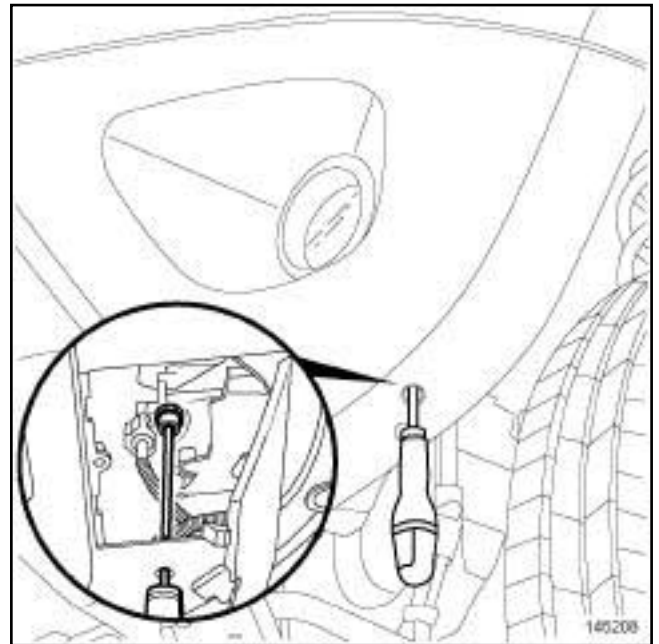
- Remove the front fog light bulb (see **80B, Headlights, Front fog light bulb: Removal - Refitting**, page **80B-6**) .

### REFITTING

#### REFITTING OPERATION

#### When replacing the front fog light

- Refit the front fog light bulb (see **80B, Headlights, Front fog light bulb: Removal - Refitting**, page **80B-6**) .
- Proceed in the reverse order to removal.



145208

- Adjust the front fog lights using a screwdriver.

# HEADLIGHTS

## Side indicator: Removal - Refitting

# 80B

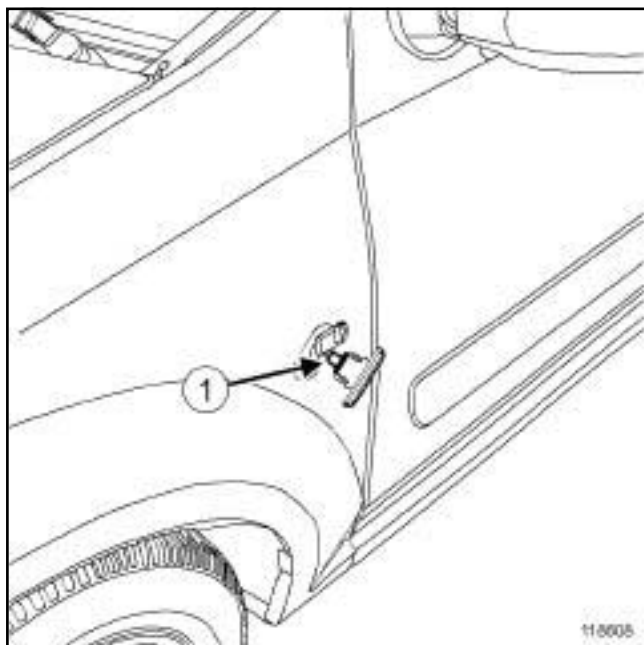
### Special tooling required

**Car. 1363** Set of trim removal levers.

## REMOVAL

### OPERATION FOR REMOVAL OF PART CONCERNED

- Unclip the side indicator using the **(Car. 1363)**.



118608

- Disconnect the bulb holder connector (1) by turning it a quarter of a turn anti-clockwise.

## REFITTING

### REFITTING OPERATION FOR PART CONCERNED

- Connect the bulb holder connector by turning it a quarter of a turn clockwise.
- Clip on the side indicator.

Location and specifications (tightening torques, parts always to be replaced, etc.) (see **80B, Headlights, Headlight assembly: Exploded view**, page **80B-1**)

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

- Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (02A, Lifting equipment).
- Switch off the ignition.
- Remove:
  - the front bumper (see **Front bumper assembly: Exploded view**) and (see **Exterior body front trim assembly: Exploded view**) (55A, Exterior protection),
  - the headlight (see **80B, Headlights, Headlight assembly: Exploded view**, page **80B-1**)

#### II - REMOVAL OPERATION

- Remove the headlight beam adjustment actuator by turning it a quarter of a turn clockwise (see **80B, Headlights, Headlight assembly: Exploded view**, page **80B-1**) .

### REFITTING

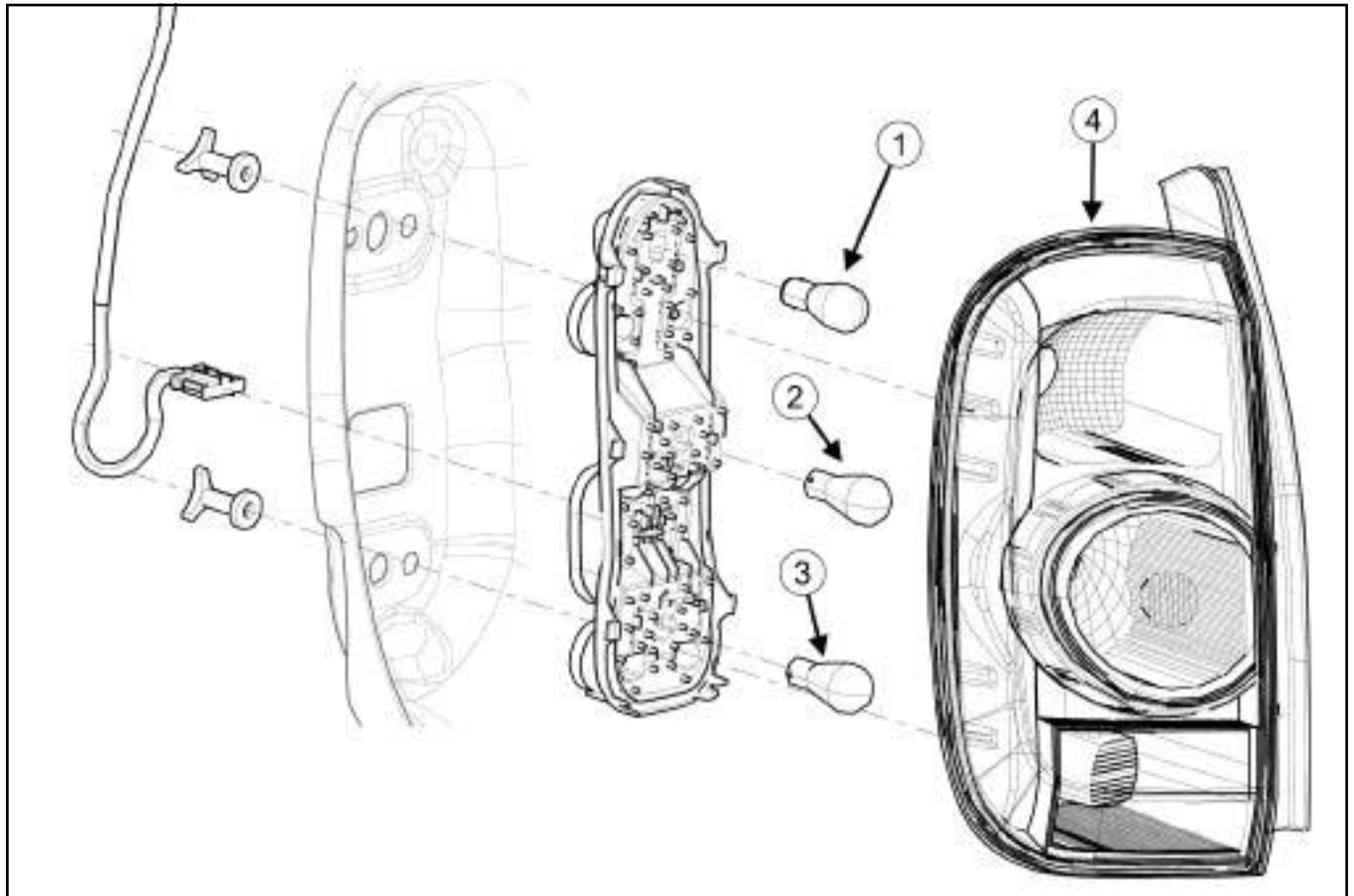
#### REFITTING OPERATION

- Proceed in the reverse order to removal.
- Adjust the headlights (see **80B, Headlights, Headlight: Adjustment**, page **80B-3**) .

# REAR LIGHTING

## Rear light assembly: Exploded view

# 81A



144000

1	Brake light and side light bulb	(see <b>81 A, Rear lighting, Rear light bulb: Removal - Refitting</b> , page 81A-3)
2	Direction indicator bulb	
3	Fog or reversing light bulb	
4	Rear light	(see <b>81 A, Rear lighting, Rear wing light: Removal - Refitting</b> , page 81A-2)

## Rear wing light: Removal - Refitting

Location and specifications (tightening torques, parts always to be replaced, etc.) (see **81A, Rear lighting, Rear light assembly: Exploded view**, page **81A-1**)

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

- Switch off the ignition.

#### Rear light on the wing (right-hand side)

- Remove
  - the jack cover,
  - the jack.

#### II - REMOVAL OPERATION

- Remove (see **81A, Rear lighting, Rear light assembly: Exploded view**, page **81A-1**) :
  - the nuts of the rear light on the wing,
  - the rear light on the wing.
- Disconnect the connector from the rear light on the wing (see **81A, Rear lighting, Rear light assembly: Exploded view**, page **81A-1**) .

#### When replacing the rear light on the wing

- Remove the bulbs from the rear light on the wing (see **81A, Rear lighting, Rear light assembly: Exploded view**, page **81A-1**) .

### REFITTING

- Proceed in the reverse order to removal.

# REAR LIGHTING

## Rear light bulb: Removal - Refitting

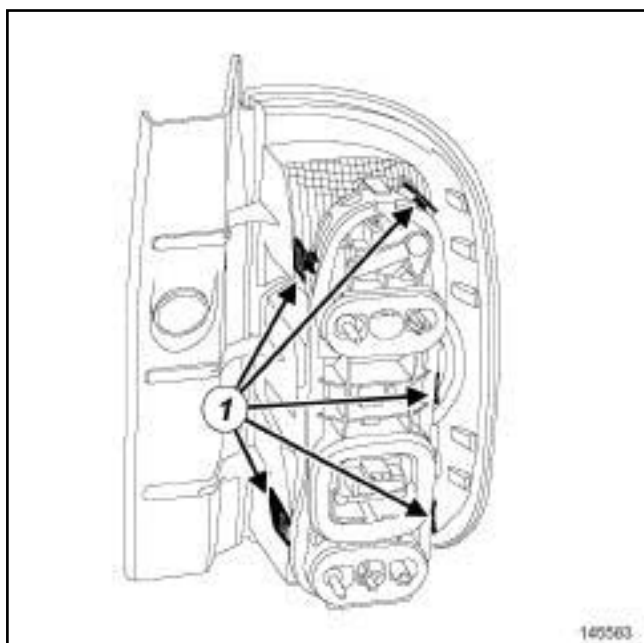
# 81A

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

- Switch off the ignition.
- Remove the rear light on the wing (see **81A, Rear lighting, Rear light assembly: Exploded view, page 81A-1**).

#### II - REMOVAL OPERATION



145583

- Unclip the bulb holder by pressing on the clips (1).

#### 1 - Brake light and side light bulb

- Remove the brake light and side light bulb (see **81A, Rear lighting, Rear light assembly: Exploded view, page 81A-1**).

#### 2 - Direction indicator bulb

- Remove the direction indicator bulb (see **81A, Rear lighting, Rear light assembly: Exploded view, page 81A-1**).

#### 3 - Fog or reversing light bulb

- Remove the fog or reversing light bulb (see **81A, Rear lighting, Rear light assembly: Exploded view, page 81A-1**).

### REFITTING

- Proceed in the reverse order to removal.

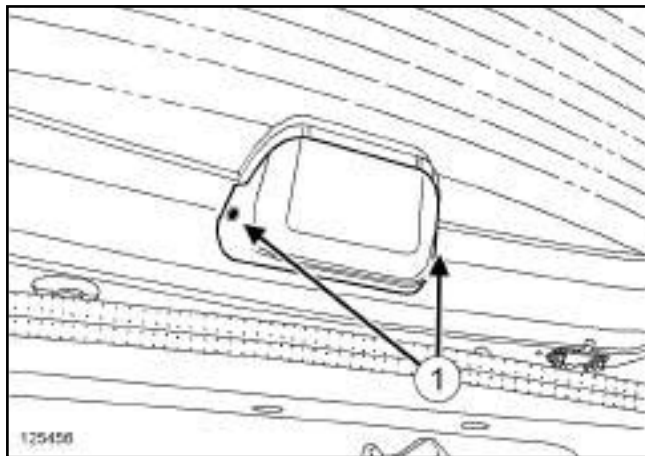
# REAR LIGHTING

## 3rd brake light: Removal - Refitting

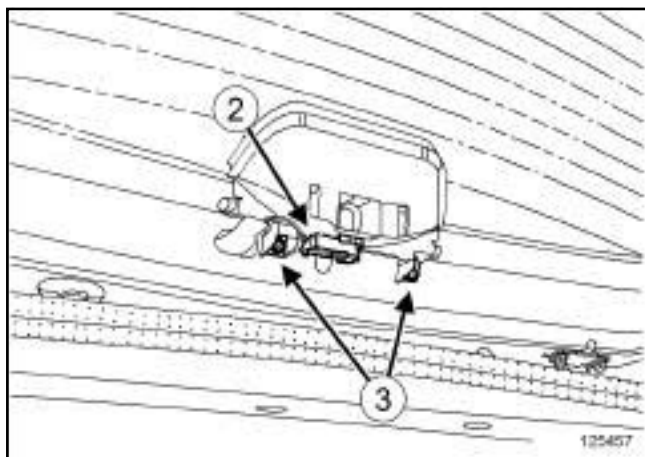
# 81A

### REMOVAL

#### OPERATION FOR REMOVAL OF PART CONCERNED



- Unclip the high level brake light cover by pressing at (1) .



- Disconnect the high level brake light connector (2) .
- Remove:
  - the high level brake light screws (3) ,
  - the high level brake light ,
  - the high level brake light bulb (see **81A, Rear lighting, High level brake light bulb: Removal - Refitting**, page **81A-5**) .

### REFITTING

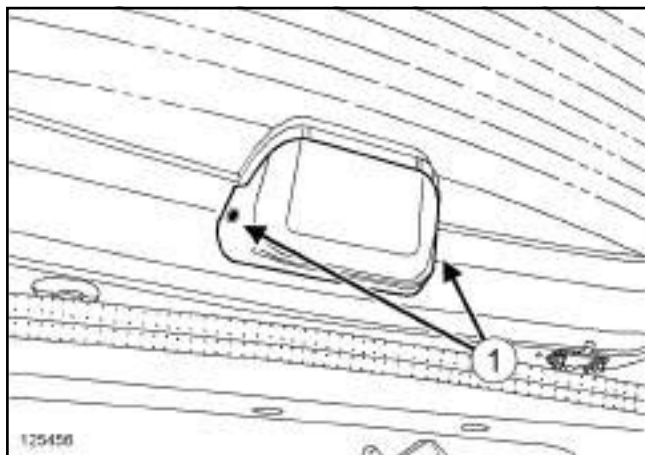
#### REFITTING OPERATION FOR PART CONCERNED

- Refit:
  - the high level brake light bulb (see **81A, Rear lighting, High level brake light bulb: Removal - Refitting**, page **81A-5**) ,

- the high level brake light ,
- the high level brake light screws.
- Connect the high level brake light connector.
- Clip on the high level brake light cover.

### REMOVAL

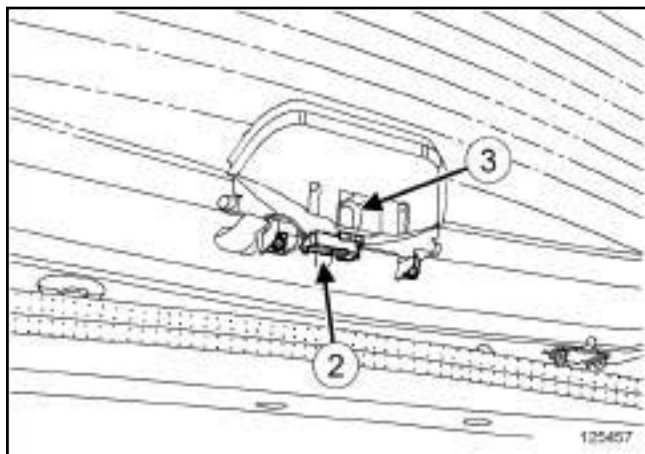
#### I - REMOVAL PREPARATION OPERATION



125456

- Unclip the high level brake light cover by pressing at (1).
- Disconnect the high level brake light connector.

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



125457

- Remove:
  - the bulb holder (2) by turning it clockwise,
  - the high level brake light bulb (3).

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

- Refit:
  - the high level brake light bulb,
  - the bulb holder by turning it anti-clockwise.

#### II - FINAL OPERATION.

- Connect the high level brake light connector.
- Clip on the high level brake light cover.



# REAR LIGHTING

## Number plate light: Removal - Refitting

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**81A**

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

- Switch off the ignition.

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

- Unclip the number plate light using a small flat-blade screwdriver.
- Disconnect the connector for the number plate lights.
- Remove the number plate light.

### REFITTING

#### REFITTING OPERATION FOR PART CONCERNED

- Connect the connector for the number plate lights.
- Clip on the number plate light.

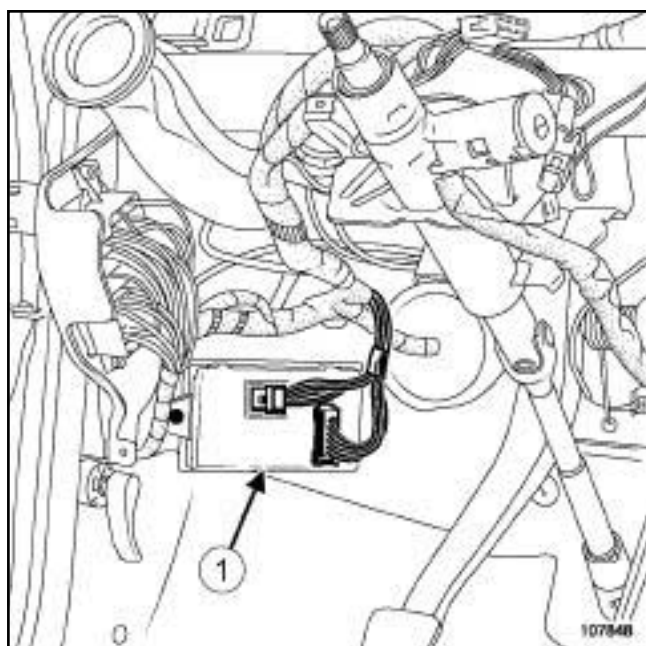
## Interior lighting: List and location of components

### I - LIST OF COMPONENTS

No.	Description
(1)	UCH
(2)	Passenger compartment fuse box
(3)	Front courtesy light
(4), (5)	Rear courtesy light
(6)	Storage compartment light
(7), (8), (9), (10)	Luggage compartment light
(11), (12)	Door switch
(13), (14), (15)	Luggage compartment switch

### II - LOCATION OF COMPONENTS

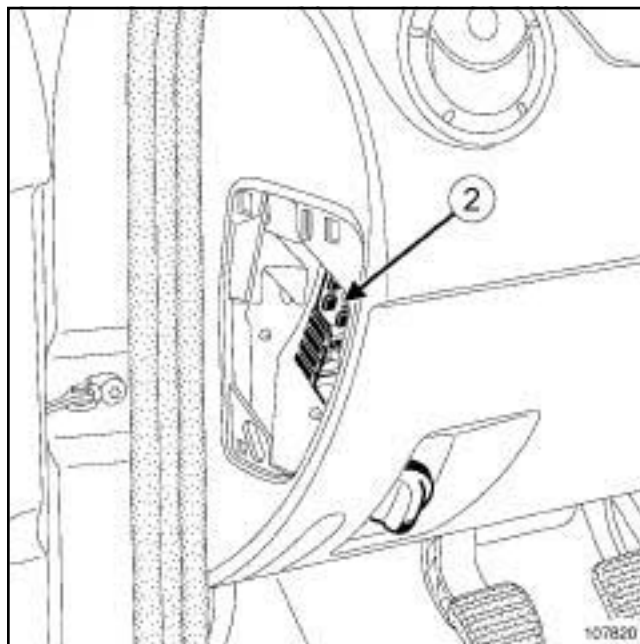
#### 1 - UCH



UCH (1)

107848

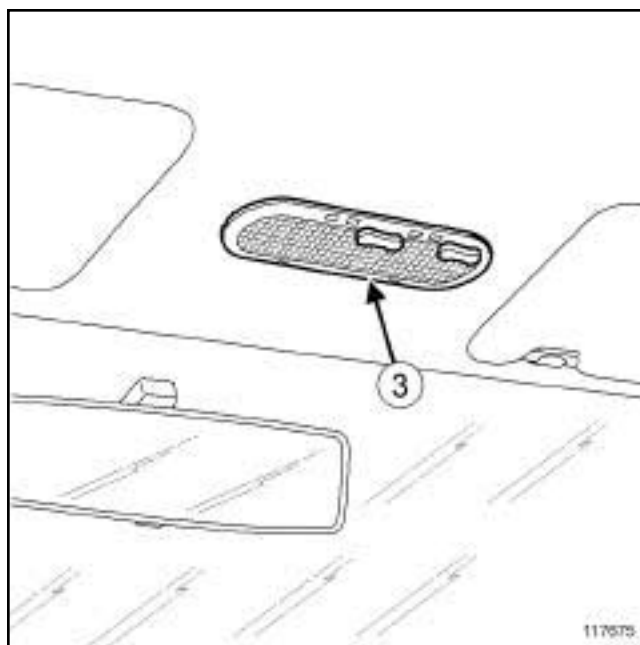
#### 2 - PASSENGER COMPARTMENT FUSE BOX



107820

Passenger compartment fuse box (2)

#### 3 - FRONT COURTESY LIGHT



117675

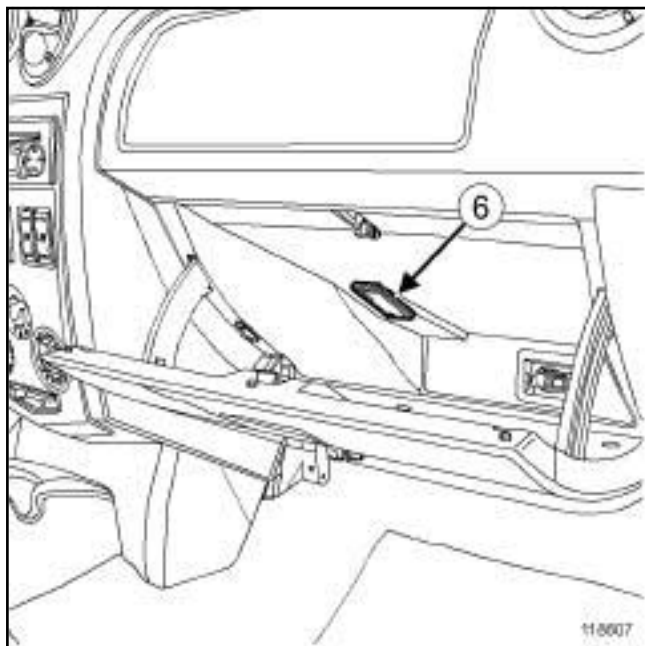
Front courtesy light (3)

# INTERIOR LIGHTING

# 81B

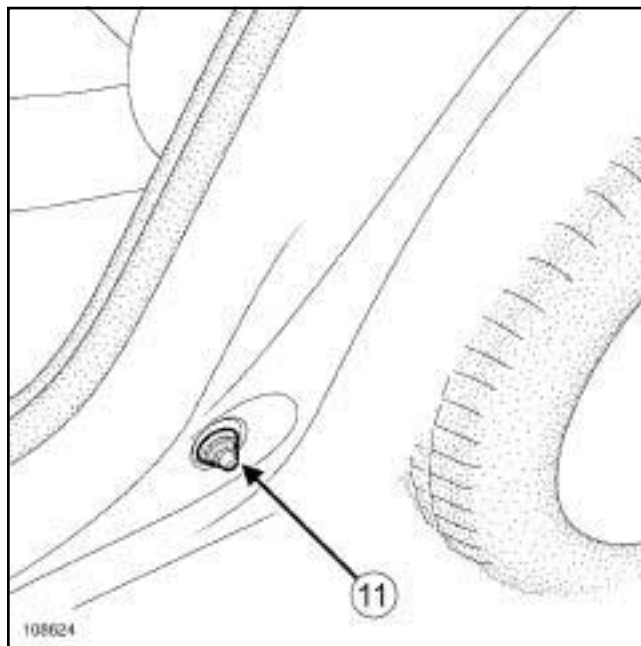
## Interior lighting: List and location of components

### 4 - STORAGE COMPARTMENT LIGHT



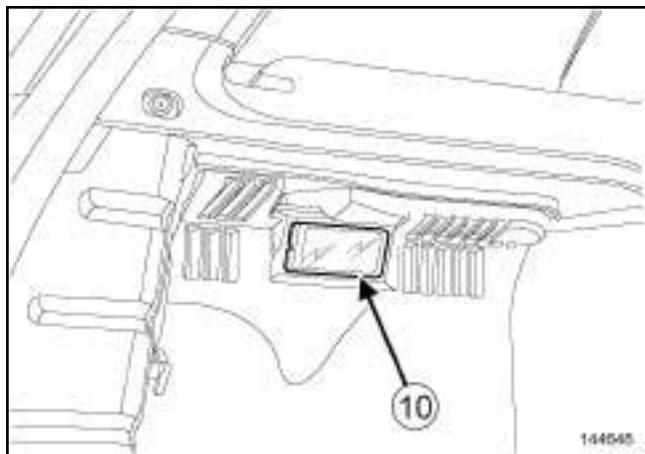
Storage compartment light (6)

### 6 - DOOR SWITCH



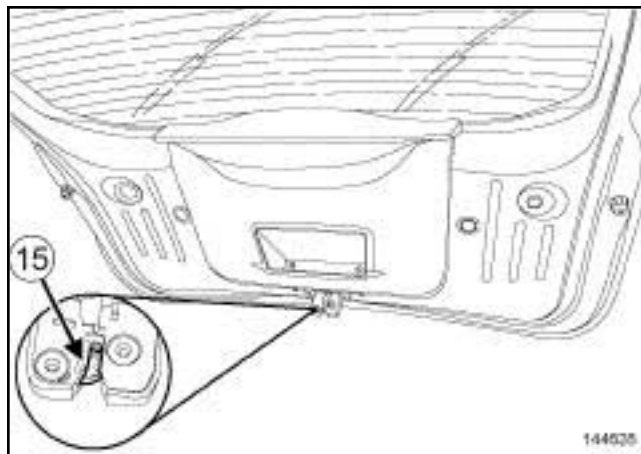
Side door switch (11)

### 5 - LUGGAGE COMPARTMENT LIGHT



Luggage compartment light (10)

### 7 - LUGGAGE COMPARTMENT SWITCH



Luggage compartment switch (15)

# INTERIOR LIGHTING

## Interior light: Removal - Refitting

# 81B

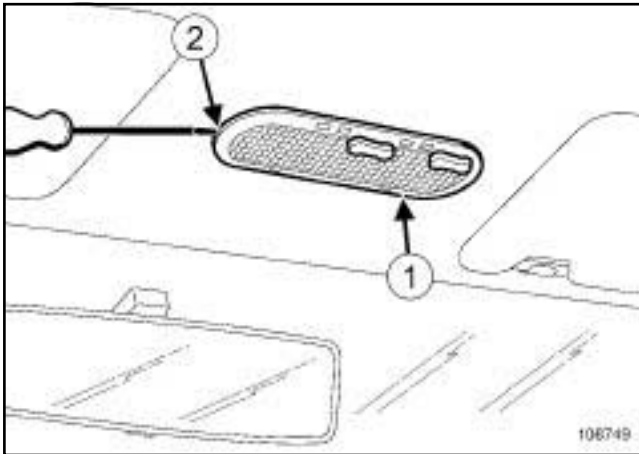
### Special tooling required

Car. 1363      Set of trim removal levers.

## REMOVAL

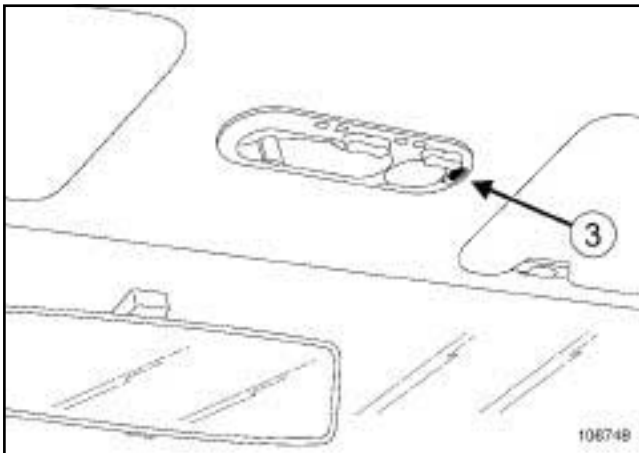
### OPERATION FOR REMOVAL OF PART CONCERNED

#### Front courtesy light



108749

- Unclip the translucent cover (1) using a flat-blade screwdriver or tool (Car. 1363), inserting it into the notch (2) .



108748

- Press on the clip (3) using the tool (Car. 1363) to remove the courtesy light.
- Disconnect the connector.

## REFITTING

### REFITTING OPERATION FOR PART CONCERNED

- Connect the connector.

- Refit the courtesy light.
- Clip the translucent cover in place.

# INTERIOR LIGHTING

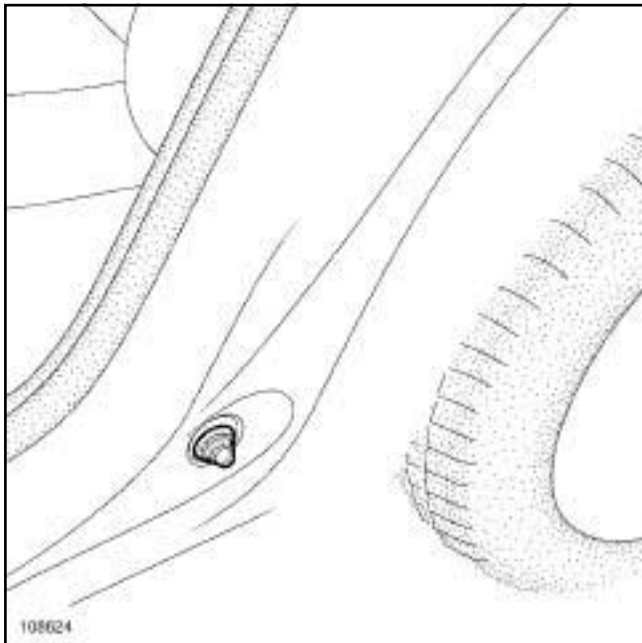
## Door switch: Removal - Refitting

# 81B

### REMOVAL

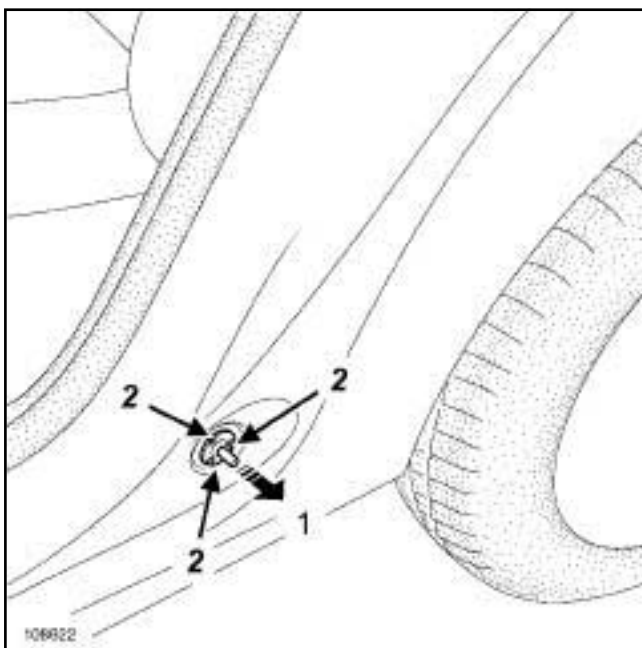
#### OPERATION FOR REMOVAL OF PART CONCERNED

##### Side door switch



108624

- Remove the sealing gaiter.



108622

- Remove the switch (1) by squeezing the three clips (2).
- Disconnect the connector.

### REFITTING

#### REFITTING OPERATION FOR PART CONCERNED

##### Side door switch

- Connect the connector.
- Clip the switch.
- Refit the sealing gaiter.

## Storage compartment light: Removal - Refitting

### Special tooling required

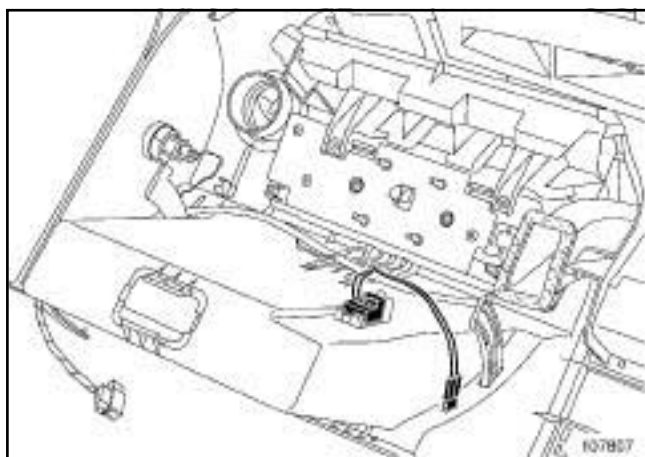
**Car. 1363** Set of trim removal levers.

### REMOVAL

#### OPERATION FOR REMOVAL OF PART CONCERNED

Note:

It is not necessary to remove the dashboard.



107807

- Unclip the storage compartment light using the **(Car. 1363)**.
- Disconnect the storage compartment light connector.

Note:

The glove compartment light switch can also be removed.

- Unclip the storage compartment light connector.
- Disconnect the storage compartment light switch connector.

### REFITTING

#### OPERATION FOR REFITTING PART CONCERNED

Note:

When replacing a bulb, use an approved **C5W** bulb.

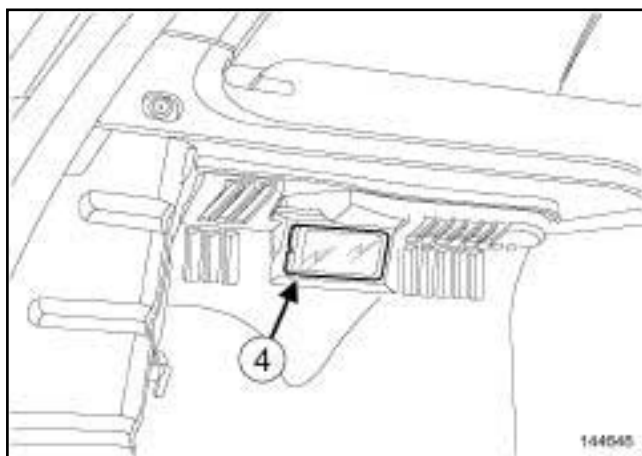
- Connect the storage compartment light switch connector.
- Clip the storage compartment light connector.
- Connect the storage compartment light connector.
- Clip on the storage compartment light.

### Special tooling required

**Car. 1363** Set of trim removal levers.

## REMOVAL

### REMOVAL OPERATION



144648

- Unclip the luggage compartment light (4) using tool (Car. 1363).
- Disconnect the luggage compartment light connector.

## REFITTING

### REFITTING OPERATION

- Connect the luggage compartment light connector.
- Clip the luggage compartment light in place.

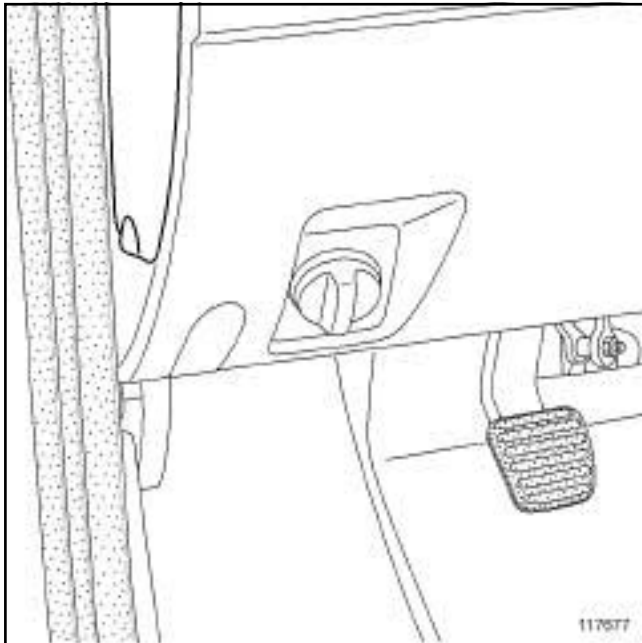
## Fuses: List and location of components

### I - LIST OF COMPONENTS

No.	Description
(1)	Passenger compartment fuse box
(2),(3)	Engine compartment fuse and relay box

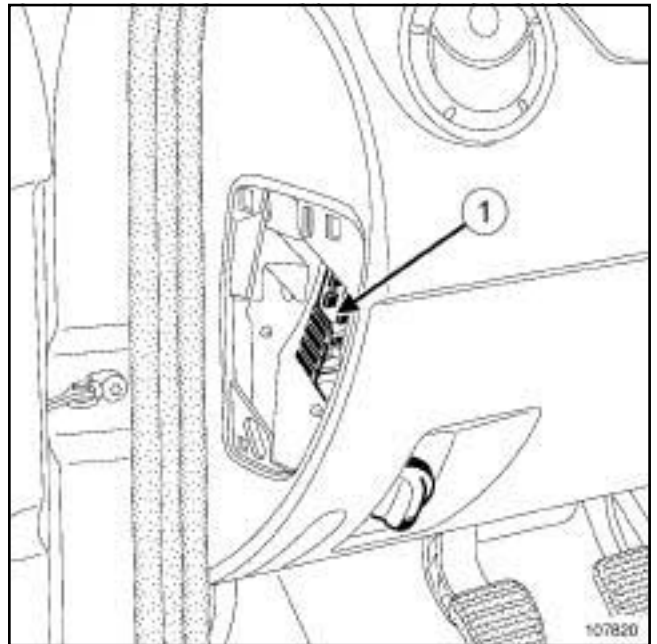
### II - LOCATION OF COMPONENTS

#### 1 - PASSENGER COMPARTMENT FUSE BOX



This unit is located in the passenger compartment, on the left-hand side of the dashboard.

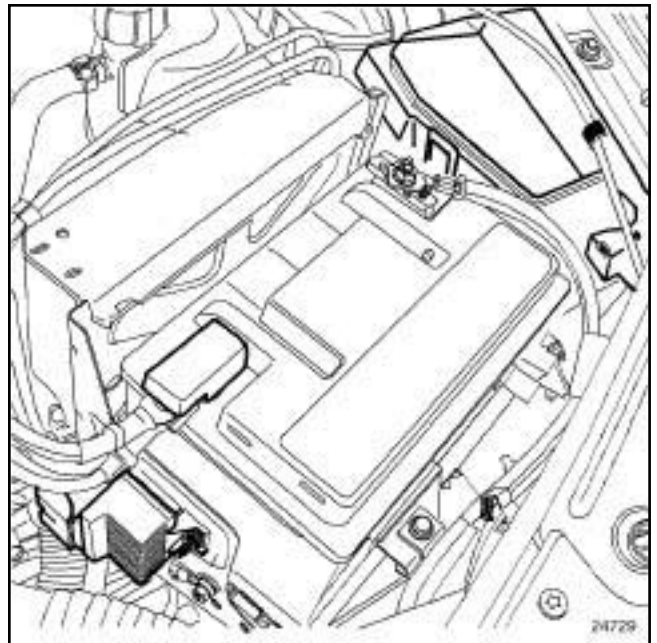
Remove the cover to access the passenger compartment fuse box.



107820

Passenger compartment fuse box (1)

#### 2 - ENGINE COMPARTMENT FUSE AND RELAY BOX

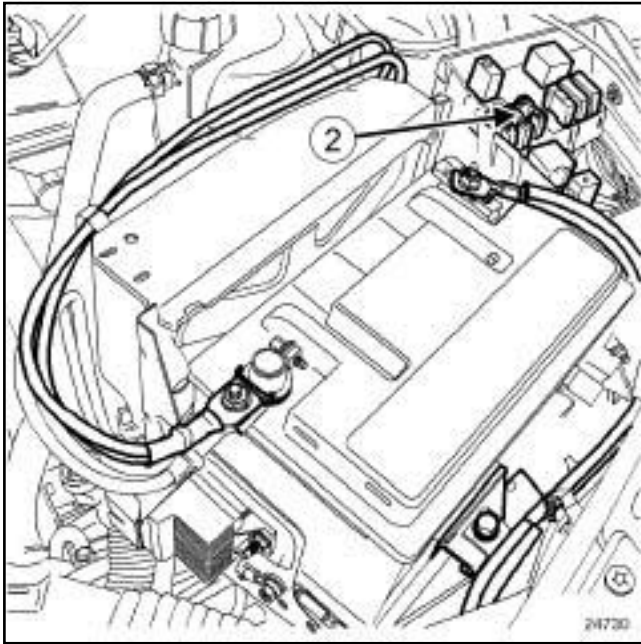


24729

Unclip the cover to access the passenger compartment fuse and relay box.

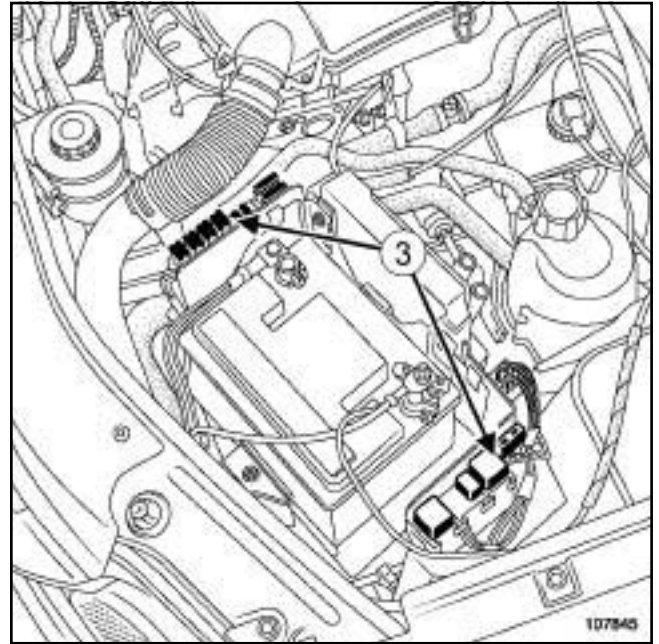


## Fuses: List and location of components



24730

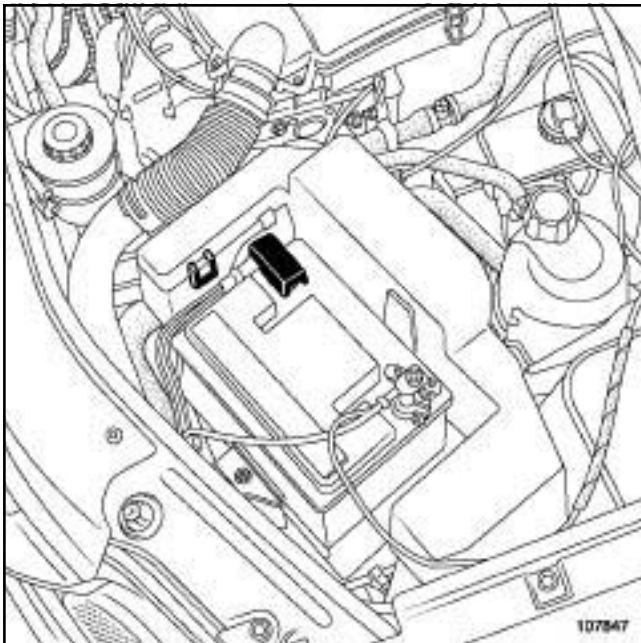
Engine compartment fuse and relay box



107845

Engine compartment fuse and relay box (3)

### 3 - OLD ENGINE COMPARTMENT FUSE AND RELAY BOX



107847

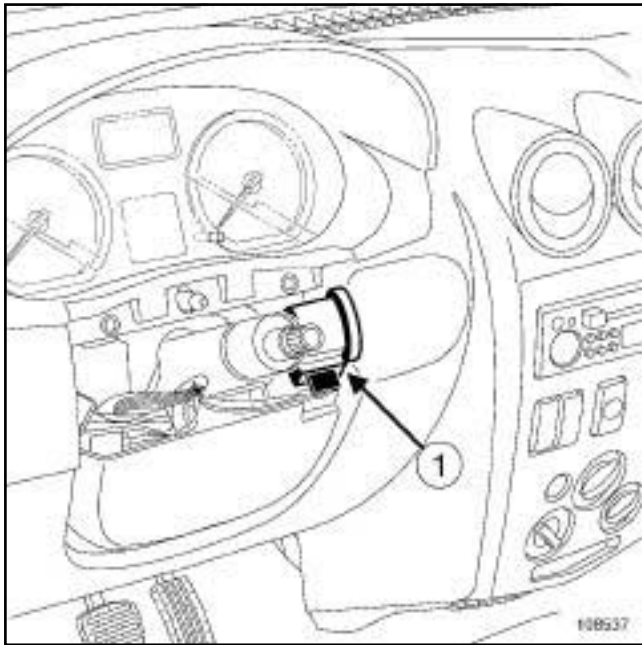
Unclip the cover to gain access to the unit.

### I - LIST OF COMPONENTS

No.	Description
(1)	Antenna/Transponder ring
(2)	Ignition switch
(3)	UCH
(4)	Ignition key

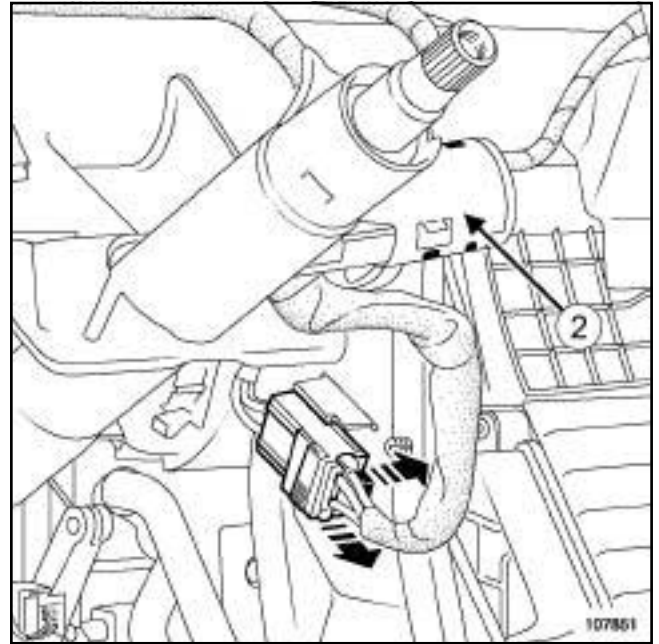
### II - LOCATION OF COMPONENTS

#### 1 - ANTENNA/TRANSPONDER RING



Antenna/transponder ring (1)

#### 2 - IGNITION SWITCH



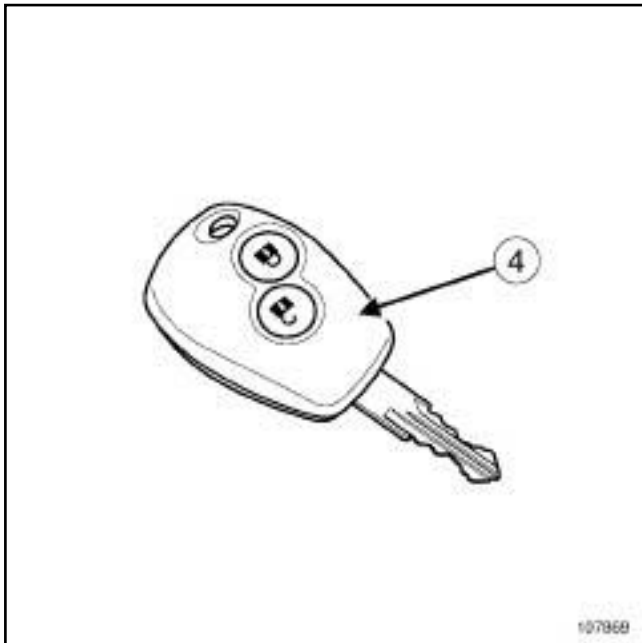
Ignition switch (2)

#### 3 - UCH



UCH (3)

### 4 - IGNITION KEY



Ignition key (4)

# ENGINE IMMOBILISER

## Ignition switch: Removal - Refitting

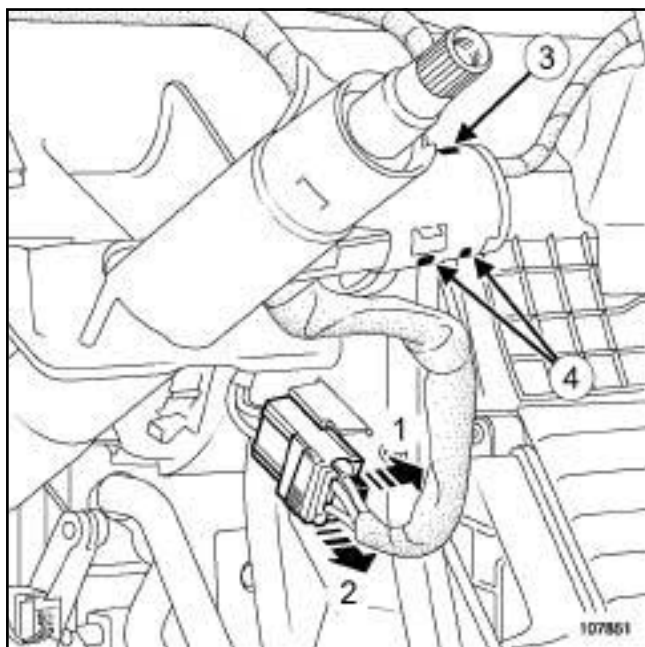
# 82A

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

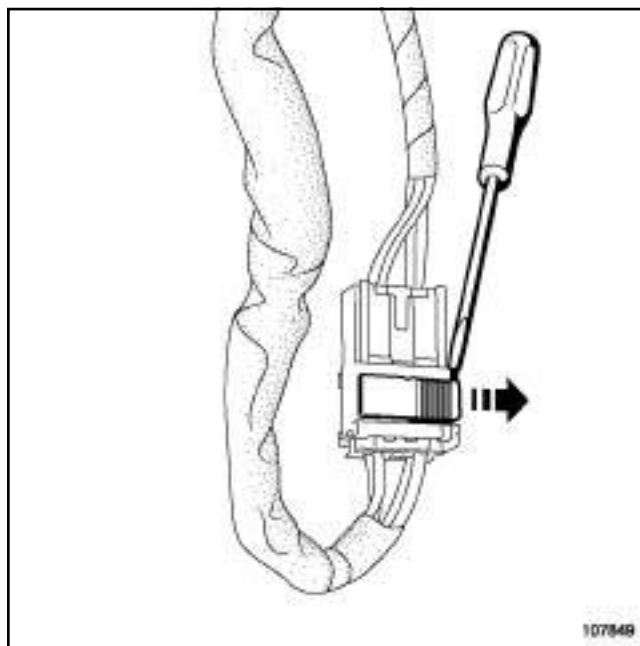
- ❑ Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-2**).
- ❑ Remove the transponder ring (see **82A, Engine immobiliser, Transponder ring: Removal - Refitting**, page **82A-5**).

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



107851

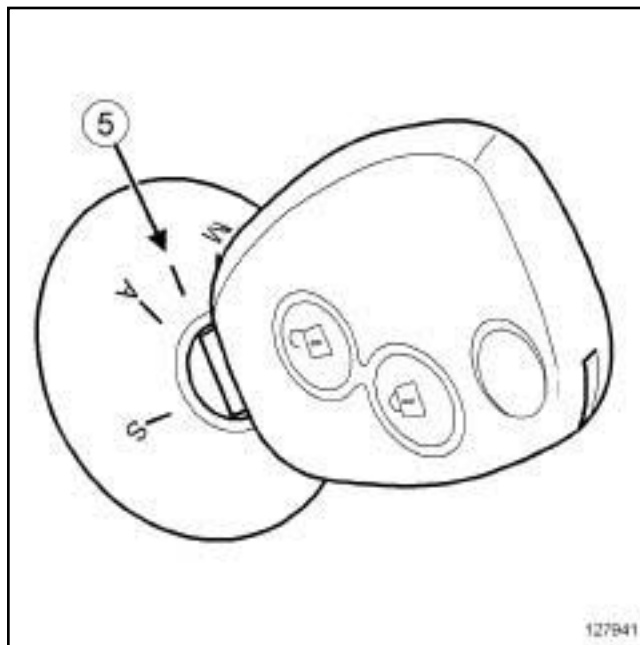
- ❑ Unclip the connector from its support at (1) and (2) from underneath the dashboard.



107848

107849

- ❑ Unclip the connector using a flat-blade screwdriver.
- ❑ Remove the bolt (3).



127841

127941

- ❑ Move the ignition key to position (5).
- ❑ Tilt the retaining lugs (4).
- ❑ Remove switch.

### REFITTING

#### I - REFITTING PREPARATION OPERATION

- ❑ Always replace the switch bolt.

# ENGINE IMMOBILISER

## Ignition switch: Removal - Refitting

**82A**

- Check that the ignition key is in position (5).

### II - REFITTING OPERATION FOR PART CONCERNED

- Refit:
  - the switch,
  - the switch bolt.
- Clip:
  - the connector to the switch,
  - the connector for the switch on its mounting.

### III - FINAL OPERATION.

- Refit the transponder ring (see **82A, Engine immobiliser, Transponder ring: Removal - Refitting, page 82A-5**).
- Connect the battery (see **80A, Battery, Battery: Removal - Refitting, page 80A-2**).

# ENGINE IMMOBILISER

## Transponder ring: Removal - Refitting

# 82A

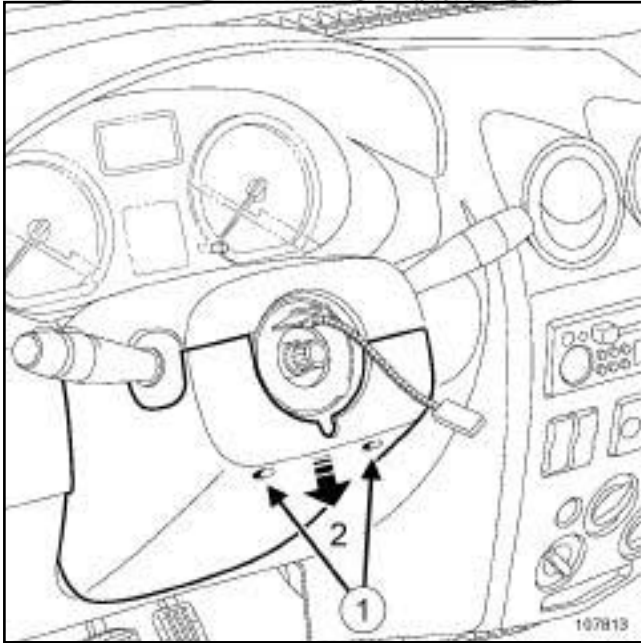
### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

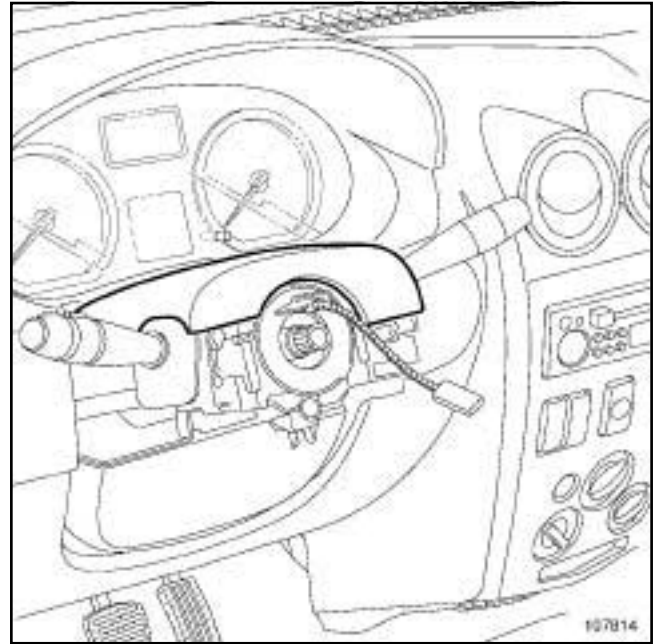
- ❑ Switch off the ignition.

Note:

The steering wheel does not need to be removed.



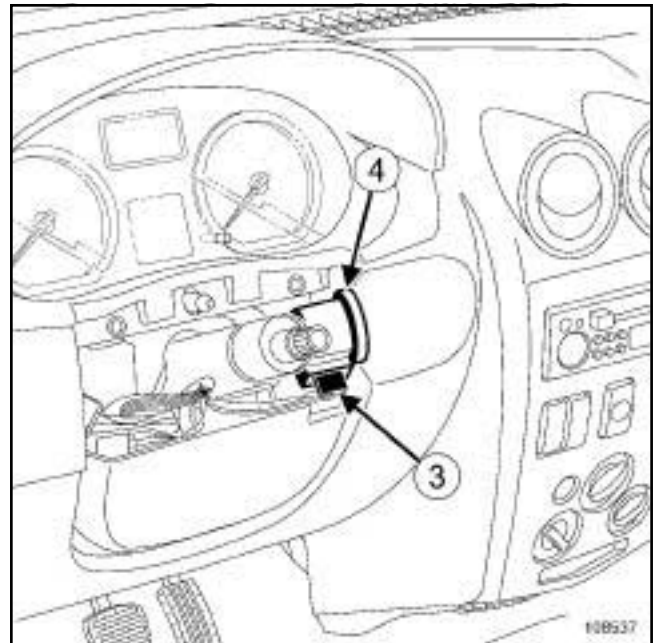
- ❑ Remove:
  - both bolts (1) ,
  - the lower half-shell at (2) .



107814

- ❑ Remove the upper half cowling.

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



108537

- ❑ Disconnect the connector (3) from the transponder ring (4) .
- ❑ Remove the transponder ring.

# ENGINE IMMOBILISER

## Transponder ring: Removal - Refitting

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**82A**

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

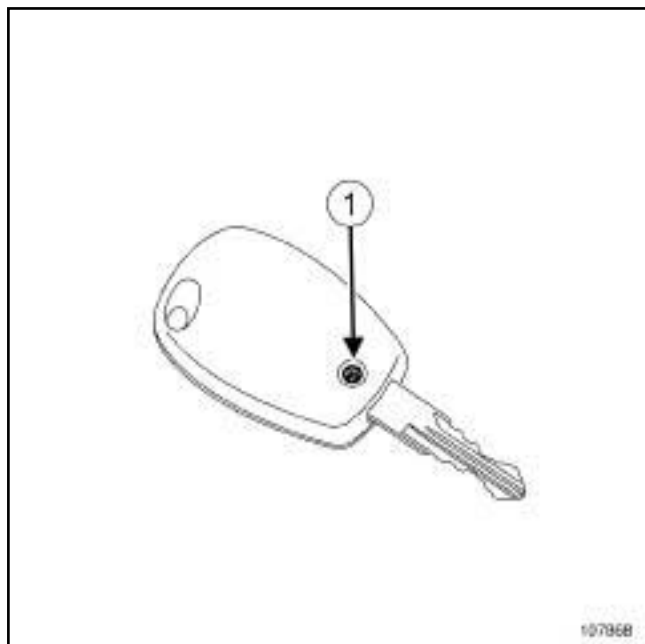
- Refit the transponder ring.
- Connect the transponder ring connector.

#### II - FINAL OPERATION.

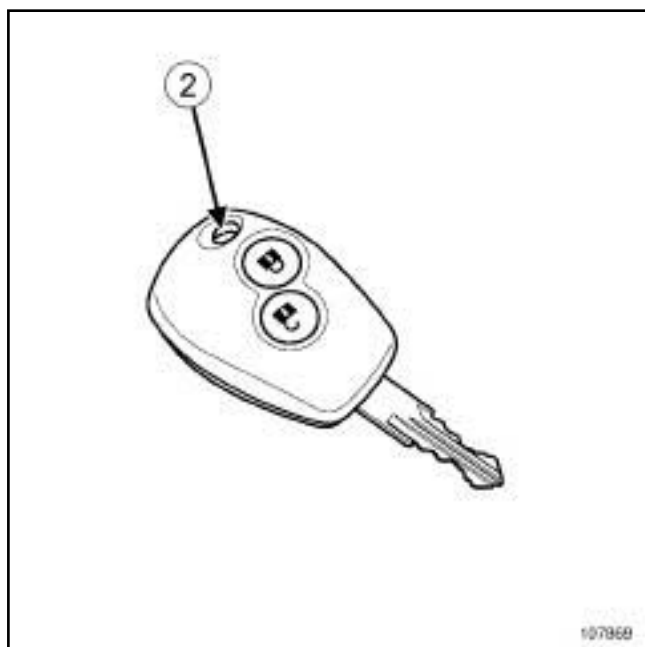
- Refit:
  - the upper half-shell,
  - the lower half-shell,
  - the two lower half-shell bolts.

### REMOVAL

#### OPERATION FOR REMOVAL OF PART CONCERNED



- Remove the bolt (1) .



- Open the key with a flat-blade screwdriver at (2) .



- Remove the battery (3) using a flat-blade screwdriver.

### REFITTING

#### I - REFITTING PREPARATION OPERATION

- 

#### WARNING

To ensure that the remote control operates correctly, take care not to damage the battery contacts.

Only handle the new battery with dry, grease-free hands or wearing clean gloves to avoid any risk of dirt and oxidation on the battery.

#### II - REFITTING OPERATION FOR PART CONCERNED

- Fit the battery (3) respecting the polarity.

#### III - FINAL OPERATION.

- Close the key.
- Refit the bolt (1) .
- Tighten the bolt.



### Tightening torques

horn bolt	21 N.m
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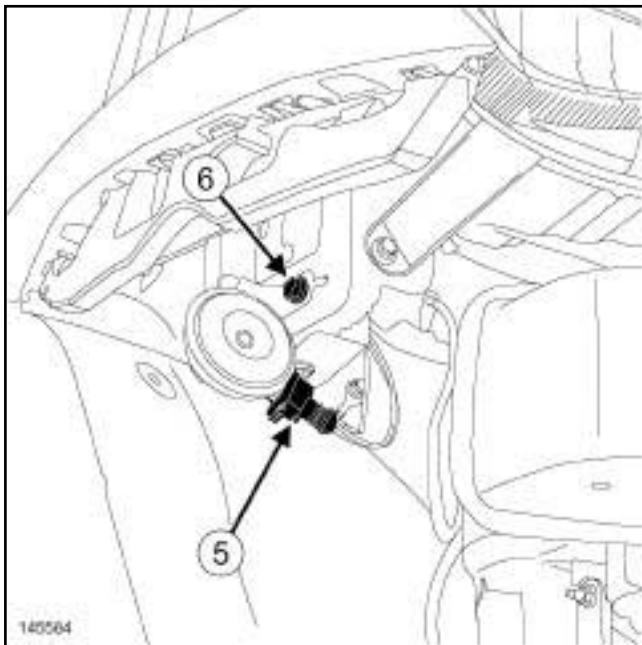
## REMOVAL

### I - REMOVAL PREPARATION OPERATION

- Remove the front bumper (see **Front bumper assembly: Exploded view**).

### II - OPERATION FOR REMOVAL OF PART CONCERNED

#### 1 - Monotonal horn



145584

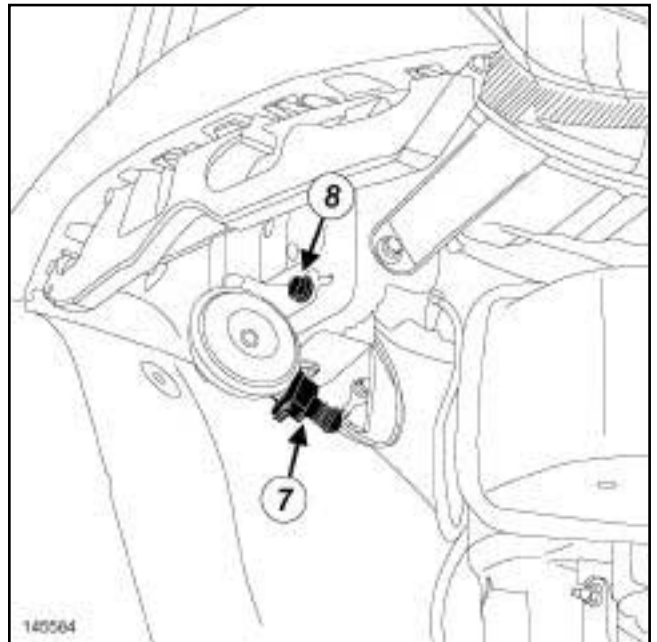
- Disconnect the connector (5).
- Remove:
  - the bolt of the monotonal horn (6),
  - the horn.

#### 2 - Bitonal horn

#### Note:

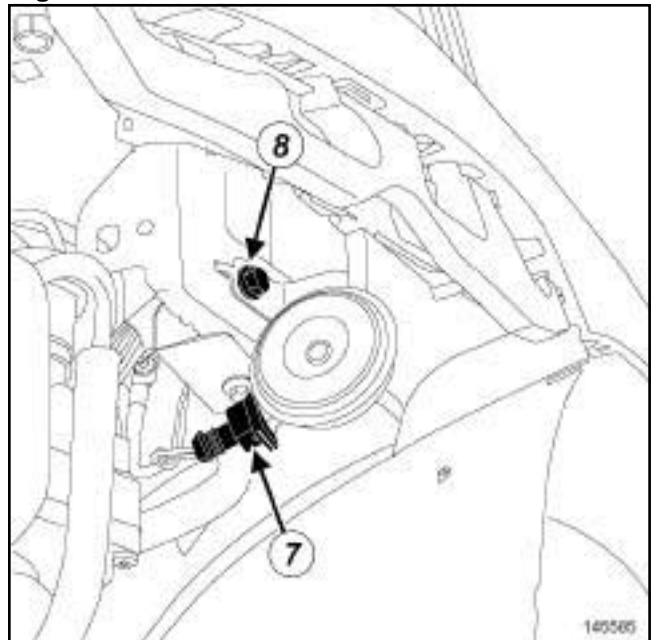
The bitonal horn is composed of two horns, which are fitted symmetrically on each side of the vehicle.

### Left-hand side



145584

### Right-hand side



145585

- Disconnect the connector of the bitonal horn (7).
- Remove:
  - the bolt of the bitonal horn (8),
  - the bitonal horn.

## REFITTING

### I - REFITTING OPERATION FOR PART CONCERNED

- Proceed in the reverse order to removal.

## Audible warning: Removal - Refitting

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- Torque tighten the horn bolt (21 N.m).

### II - FINAL OPERATION

- Refit the front bumper.

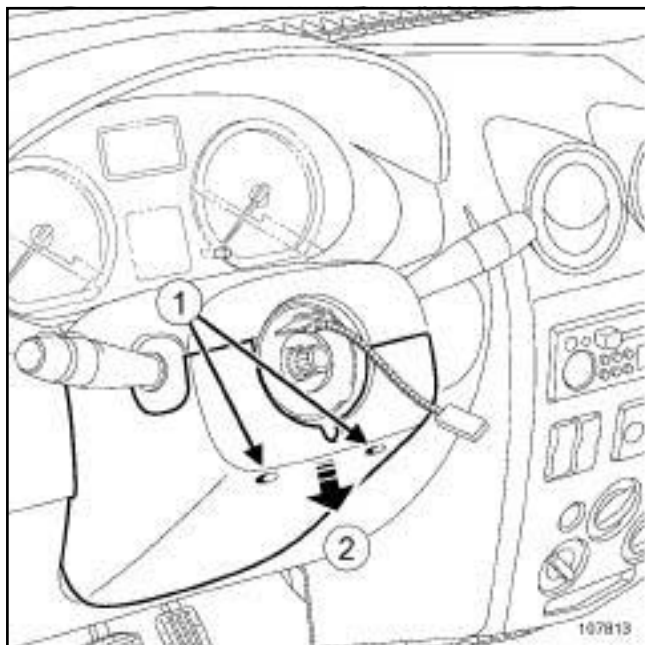
When replacing the instrument panel, the following must be noted on the warranty booklet:

- that the instrument panel has been replaced,
- the mileage indicated by the instrument panel removed.

### REMOVAL

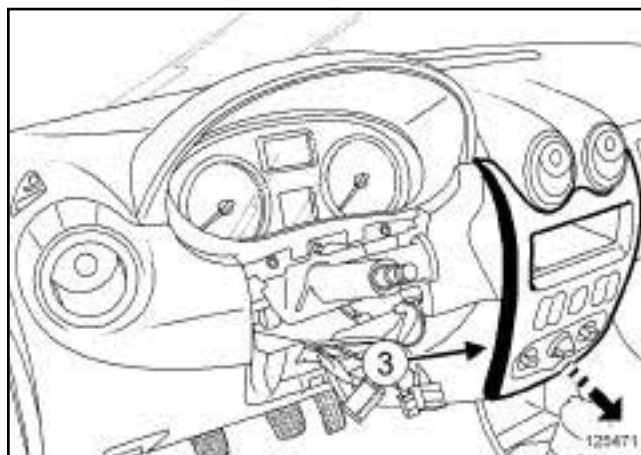
#### I - REMOVAL PREPARATION OPERATION

- When replacing the instrument panel, read the mileage indicated on the instrument panel and note it in the warranty booklet (see insert in the introduction)
- Switch off the ignition.



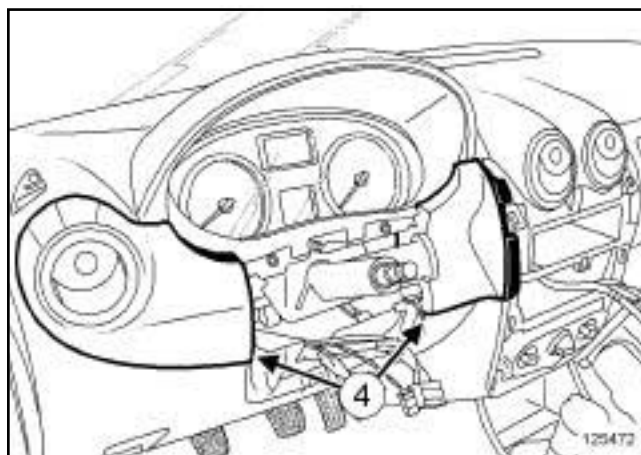
107813

- Remove the two lower bolts (1) .
- Unclip:
  - the lower half-shell in the direction of the arrow (2) ,
  - the upper half-shell.



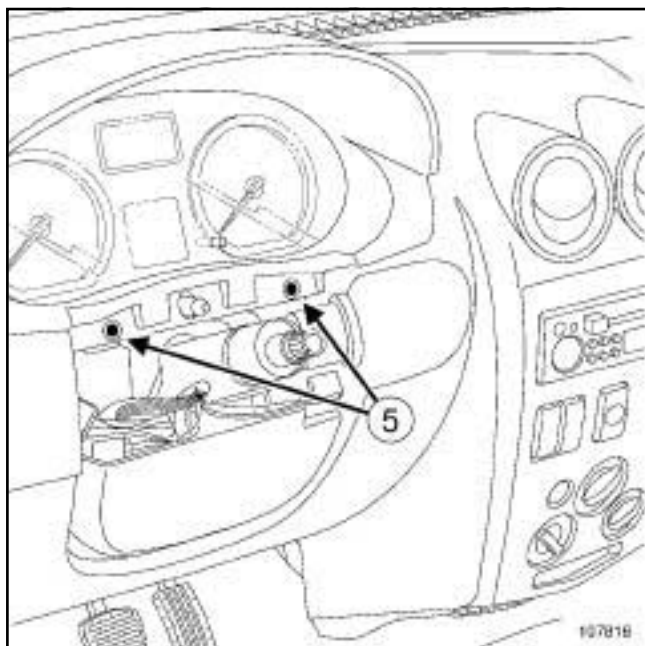
125471

- Unclip the central trim assembly (3) , starting at the bottom.



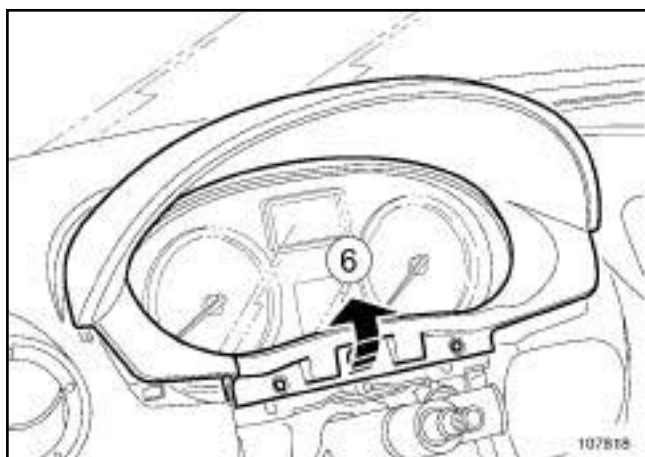
125472

- Unclip the trims (4) .

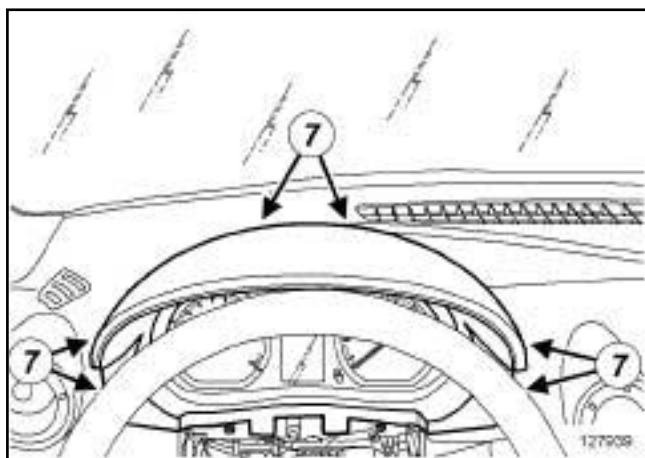


107816

- Remove the bolts (5) of the instrument panel frame.



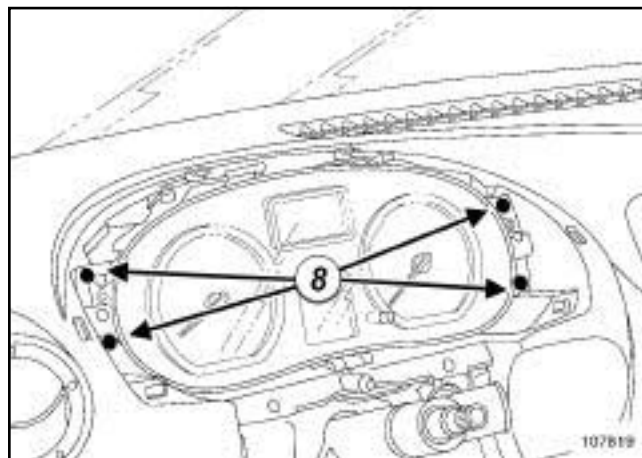
107818



127939

- Unclip the instrument panel frame at (6) and (7) .

### II - OPERATION FOR REMOVAL OF PART CONCERNED



107819

- Remove the bolts (8) from the instrument panel.
- Unclip the instrument panel.
- Disconnect the connectors from the instrument panel.

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

- Connect the connectors to the instrument panel.
- Clip on the instrument panel.
- Refit the instrument panel bolts.

#### II - FINAL OPERATION

- Clip in place the instrument panel frame.
- Refit the bolts of the instrument panel frame.
- Clip on:
  - the trims,
  - the centre trim.
- Clip on:
  - the upper half-shell,
  - the lower half-shell.
- Refit the two lower bolts.

#### III - CHECKING AFTER REPAIR

- Switch on the ignition.
- Check the operation of the instrument panel.
- Set the time (see **Clock: Before/after repair procedure**) .

# CONTROL - SIGNALS

## Rotary switch: Removal - Refitting

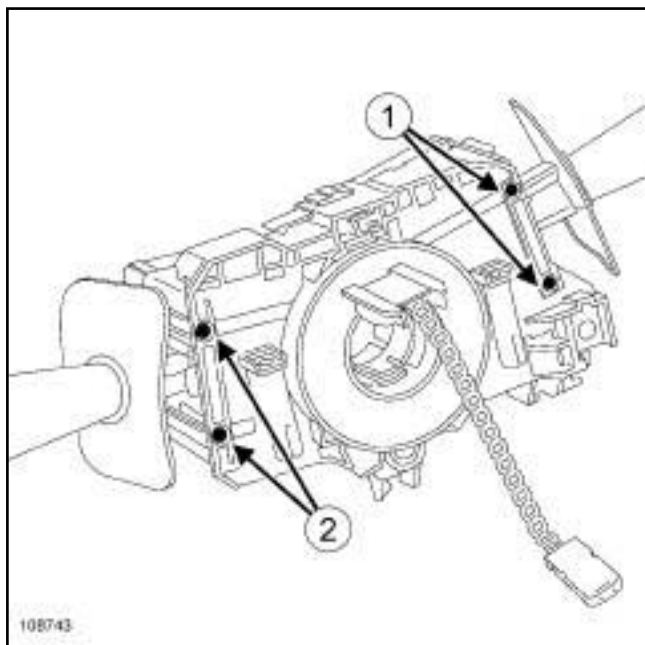
# 84A

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

- Set the wheels straight ahead.
- Lock the airbag computer (see **Fault finding - Replacement of components**) (88C, Airbags and pretensioners).
- Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page 80A-2).
- Remove the steering column switch assembly (see **84A, Control - Signals, Steering column switch assembly: Removal - Refitting**, page 84A-2).

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



108743

- Remove:
  - the bolts (1) from the wiper stalk,
  - the bolts (2) from the lighting stalk.

### REFITTING

#### I - REFITTING PREPARATION OPERATION

- Check that the rotary switch tape is correctly centred (2.5 rotations on each side).

#### Note:

If the rotary switch is being replaced, the new part is supplied ready centred with an adhesive label which will tear off when the wheel is turned for the first time (wheels must be straight when fitting).

- Ensure that the wheels are set straight ahead.

#### II - REFITTING OPERATION FOR PART CONCERNED

- Refit:
  - the bolts to the lighting stalk,
  - the bolts to the wiper stalk.

#### III - FINAL OPERATION

- Refit the steering column switch assembly (see **84A, Control - Signals, Steering column switch assembly: Removal - Refitting**, page 84A-2).
- Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page 80A-2).
- Unlock the airbag computer (see **Fault finding - Replacement of components**) (88C, Airbag and pretensioners).

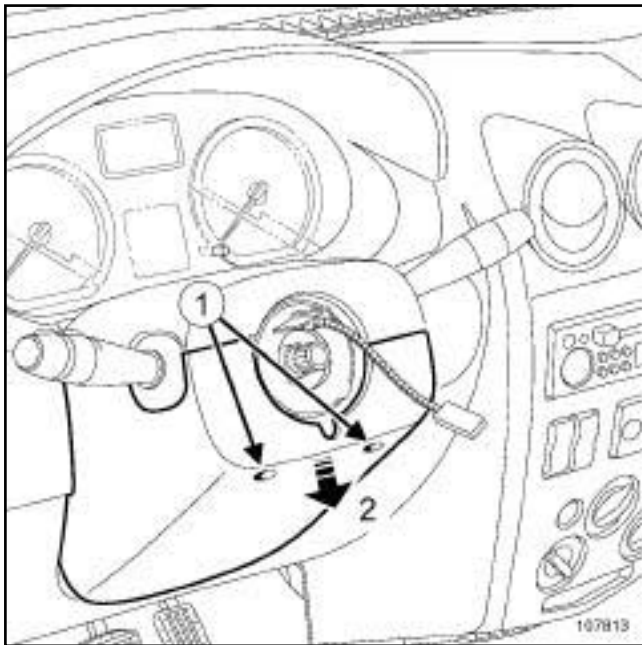
#### IV - CHECKING AFTER REPAIR

- Switch on the ignition.
- Check the operation of the rotary switch:
  - turn the steering wheel to the left until it stops,
  - turn the steering wheel to the right until it stops,
  - bring the steering wheel back to the central position,
  - check that there are no faults on the instrument panel.

### REMOVAL

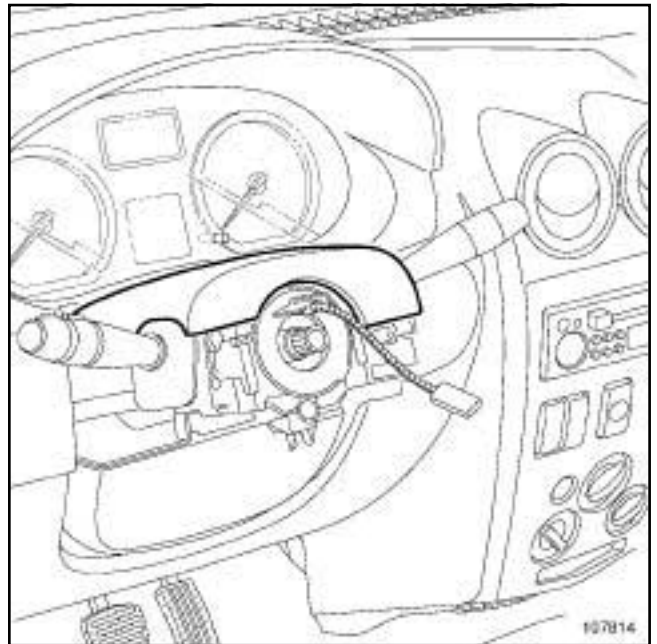
#### I - REMOVAL PREPARATION OPERATION

- Set the wheels straight ahead.
- Lock the airbag computer (see **Fault finding - Replacement of components**) (88C, Airbags and pretensioners).
- Switch off the ignition.
- Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-2**).
- Remove:
  - the driver's frontal airbag (see **88C, Air bag and Pretensioners, Driver's frontal airbag: Removal - Refitting**, page **88C-6**),
  - the steering wheel (see **Steering wheel: Removal - Refitting**) (36A, Steering).



107813

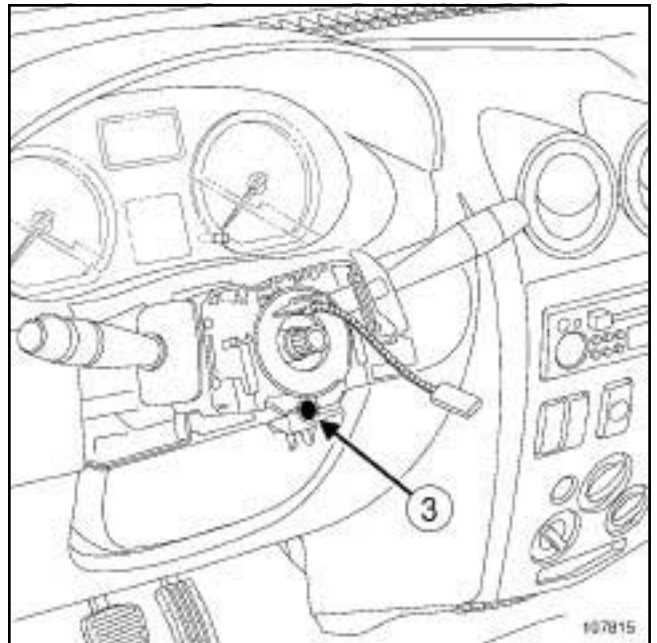
- Remove the two lower bolts (1).
- Unclip the lower half-shell in the direction of the arrow (2).



107814

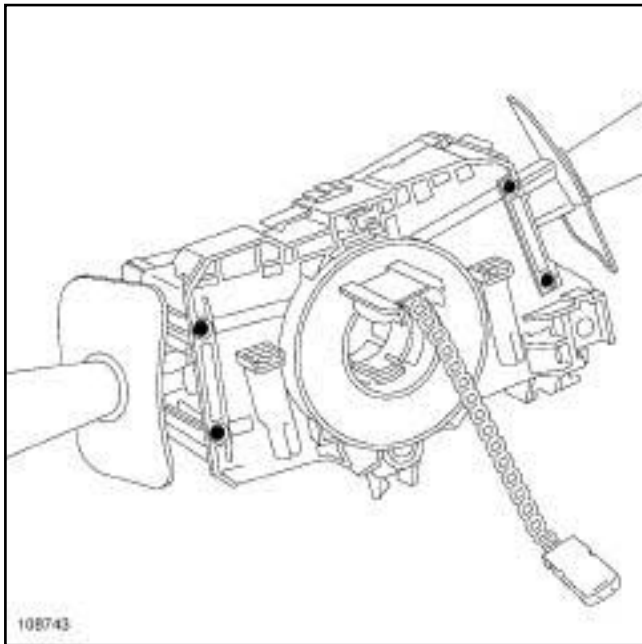
- Unclip the upper half-shell.

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



107815

- Loosen the bolts (3) securing the rotary switch.
- Tap the head of a screwdriver to unlock the cone and release the steering column assembly.



108743

**Note:**

Before removing the assembly, it is essential to mark the position of the rotary switch by immobilising the rotary switch rotor with adhesive tape.

- Partially remove the steering column switch assembly to disconnect its connectors.
- Remove the steering wheel control assembly.

### REFITTING

#### I - REFITTING PREPARATION OPERATION

- The steering wheel bolt must always be replaced.
- Ensure that the wheels are still straight.
- Check that the switch tape is correctly centred (**2.5 rotations** on each side).

**Note:**

If the rotary switch is being replaced, the new part is supplied ready centred with an adhesive label which will tear off when the wheel is turned for the first time (wheels must be straight when fitting).

#### II - REFITTING OPERATION FOR PART CONCERNED

- Engage the steering assembly on the steering column.

- Connect the various connectors.
- Remove the adhesive tape.

**Note:**

Continue refitting and do not tighten bolt until the two half-shells are refitted so that the stalks can be aligned with the instrument panel and dashboard. This operation is made easier by a cut-out section giving access to the bolt in the lower half-shell.

- Clip on:
  - the upper half-shell,
  - the lower half-shell.
- Refit the two lower bolts.
- Position the stalks in alignment with the instrument panel and dashboard.
- Tighten the bolts (**3**) securing the rotary switch.

#### III - FINAL OPERATION

- Refit:
  - the steering wheel (see **Steering wheel: Removal - Refitting**) (36A, Steering),
  - the driver's front airbag (see **88C, Air bag and Pre-tensioners, Driver's frontal airbag: Removal - Refitting**, page 88C-6) .
- Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page 80A-2) .
- Unlock the airbag computer (see **Fault finding - Replacement of components**) (88C, Airbag and pre-tensioners).
- Carry out a function test on the steering column switch assembly.

#### IV - CHECKING AFTER REPAIR

- Switch on the ignition.
- Check the operation of the rotary switch:
  - turn the steering wheel to the left until it stops,
  - turn the steering wheel to the right until it stops,
  - bring the steering wheel back to the central position,
  - check that there are no faults on the instrument panel.

|



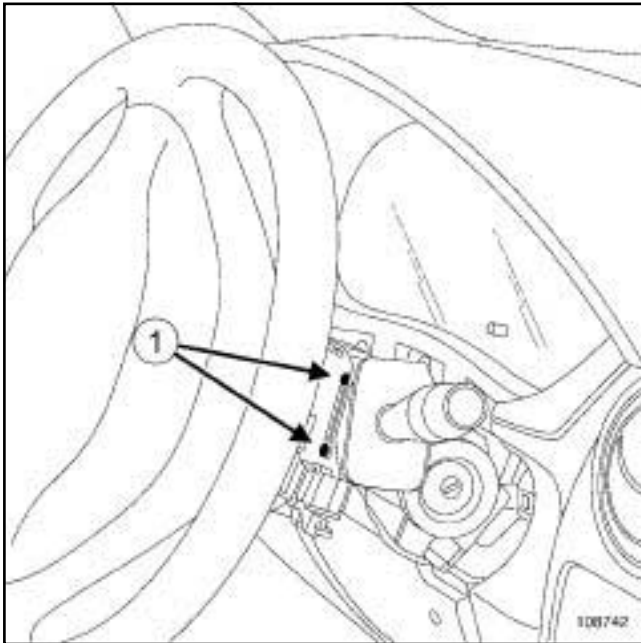
## Screen wiper switch: Removal - Refitting

## REMOVAL

## I - REMOVAL PREPARATION OPERATION

- Switch off the ignition.
- Remove the transponder ring (see **82A, Engine immobiliser, Transponder ring: Removal - Refitting, page 82A-5**).

## II - OPERATION FOR REMOVAL OF PART CONCERNED



108742

- Remove the two bolts (1) from the wiping stalk.
- Remove the wiping stalk from its support.
- Disconnect the connector.

## REFITTING

## I - REFITTING OPERATION FOR PART CONCERNED

- Connect the connector.
- Refit:
  - the wiping stalk onto its support,
  - the bolts to the wiping stalk.

## II - FINAL OPERATION.

- Refit the transponder ring (see **82A, Engine immobiliser, Transponder ring: Removal - Refitting, page 82A-5**).

## Signals and lighting switch: Removal - Refitting

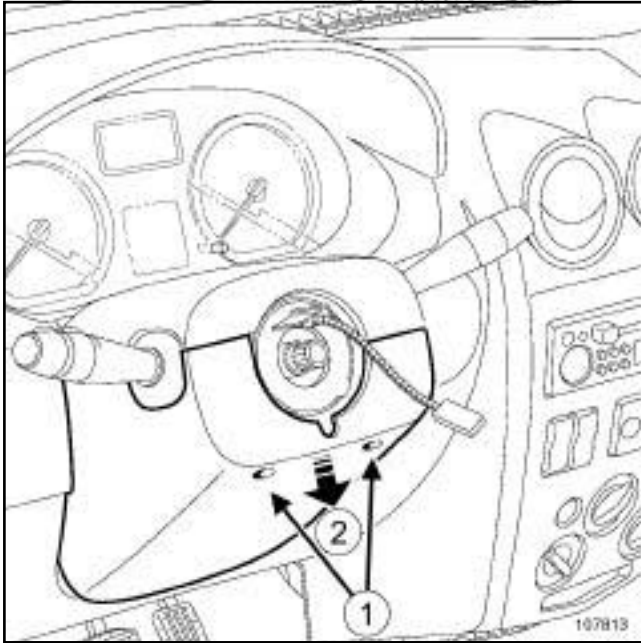
### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

- Switch off the ignition.

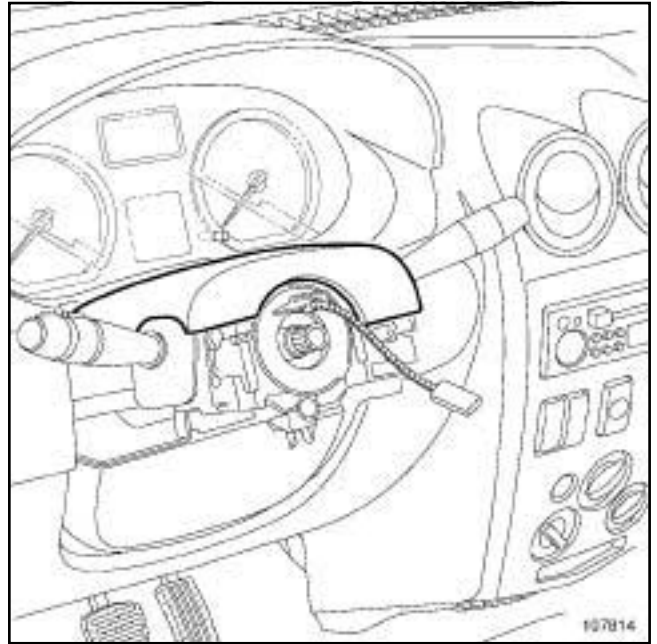
**Note:**

The steering wheel does not need to be removed.



107813

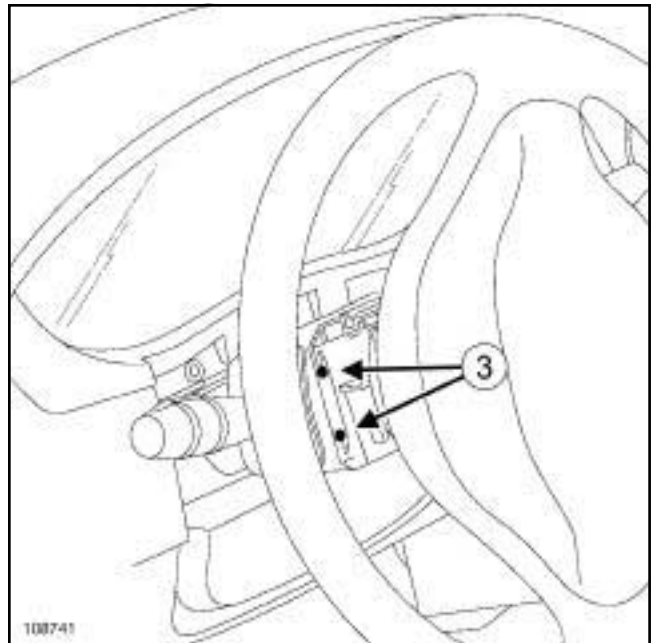
- Remove:
  - both bolts (1) ,
  - the lower half-shell at (2) .



107814

- Remove the upper half cowling.

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



108741

- Remove the two bolts (3) from the lighting stalk.
- Remove the lighting stalk and its mounting.
- Disconnect the connector.

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

- Connect the connector.
- Refit:
  - the lighting stalk on its support,
  - the two bolts on the lighting stalk.

#### II - FINAL OPERATION

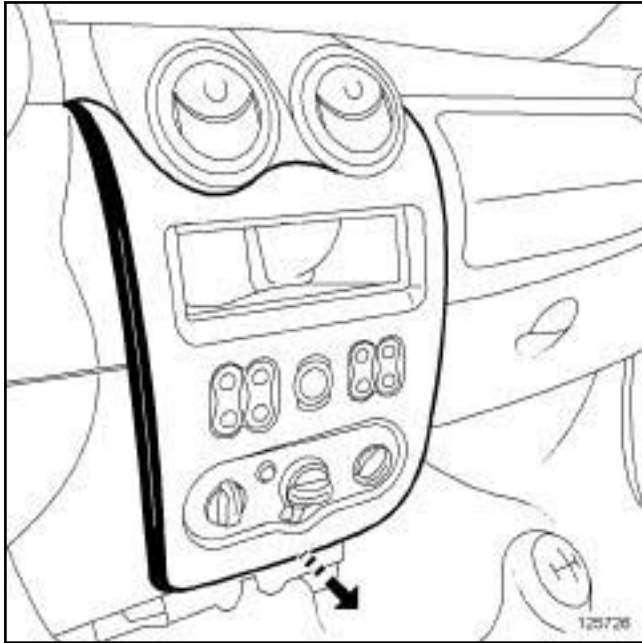
- Refit:
  - the upper half-shell,
  - the lower half-shell,
  - the two bolts of the lower half-shell.

## Hazard warning lights switch: Removal - Refitting

### REMOVAL

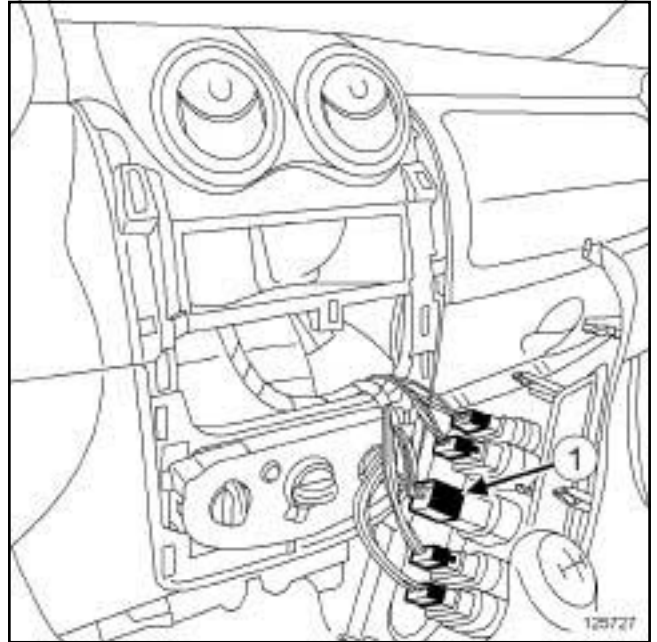
#### I - REMOVAL PREPARATION OPERATION

- Remove the radio (see **86A, Radio, Radio: Removal - Refitting**, page **86A-3**) .



- Unclip the central trim assembly, starting at the bottom.

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



- Disconnect the hazard warning lights switch connector (1) .
- Unclip the hazard warning light switch by moving clips.

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

- Clip on the hazard warning light switch.
- Connect the hazard warning lights switch connector.

#### II - FINAL OPERATION

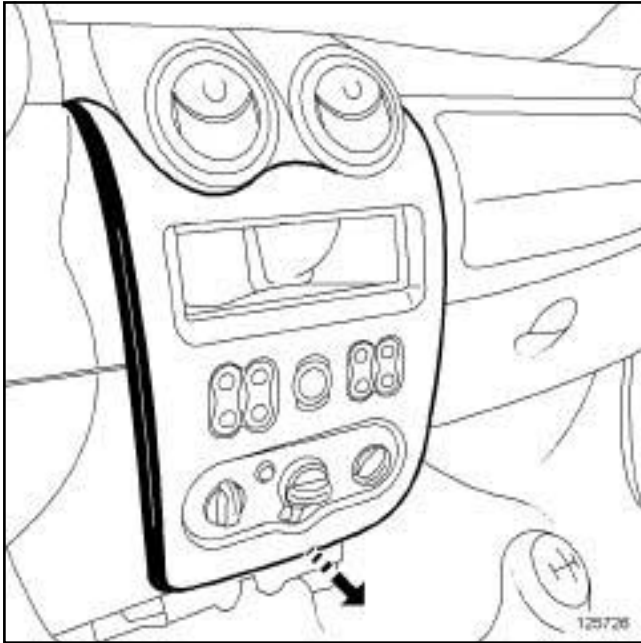
- Clip on the central trim assembly, starting at the top.
- Refit the radio (see **86A, Radio, Radio: Removal - Refitting**, page **86A-3**) .

## Central door locking switch: Removal - Refitting

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

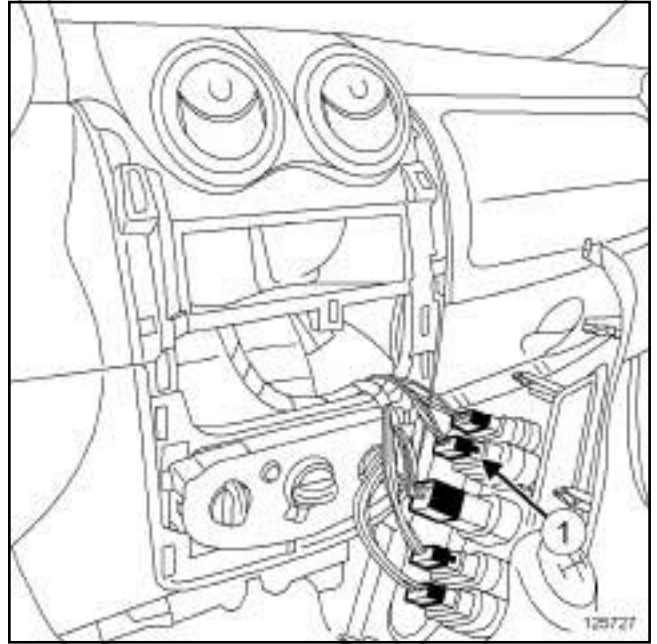
- Remove the radio (see **86A, Radio, Radio: Removal - Refitting**, page **86A-3**).



125726

- Unclip the central trim assembly, starting at the bottom.

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



125727

- Disconnect the connector (1) from the central door locking switch.
- Unclip the central locking switch by moving clips.

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

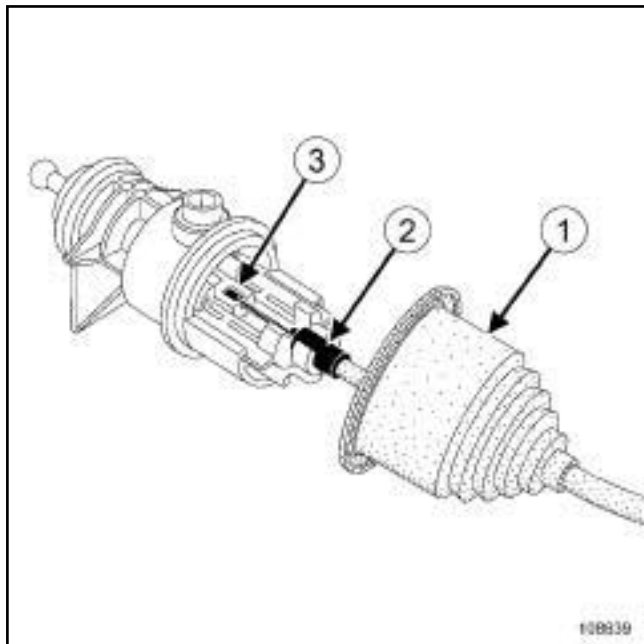
- Clip the door locking switch.
- Connect the central door locking switch connector.

#### II - FINAL OPERATION

- Clip on the central trim assembly, starting at the top.
- Refit the radio (see **86A, Radio, Radio: Removal - Refitting**, page **86A-3**).

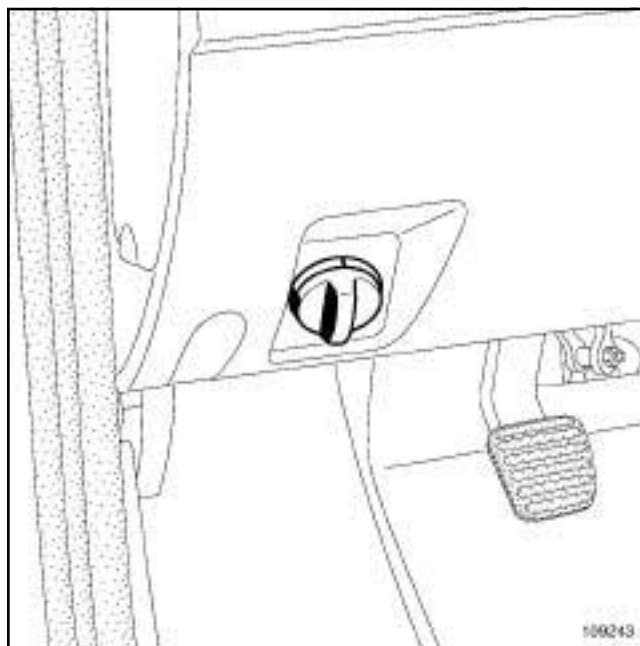
### REMOVAL

#### OPERATION FOR REMOVAL OF PART CONCERNED



108639

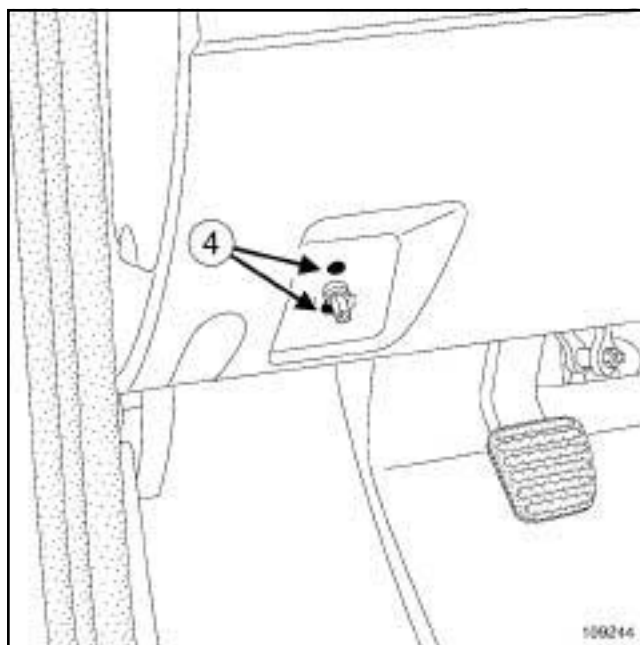
- Retract the sealing sleeve (1) from the left-hand actuator.
- Unclip the end piece of the left-hand actuator sheath (2) .
- Remove:
  - the cable (3) from the left-hand actuator,
  - the sealing sleeve (1) .
- Retract the sealing sleeve (1) from the right-hand actuator.
- Unclip the end piece of the right-hand actuator sheath (2) .
- Remove:
  - the cable (3) from the right-hand actuator,
  - the sealing sleeve (1) .
- Unpick the « cables - sheaths » assembly. Note down the position of fitting.



109243

109243

- Unclip the adjustment knob.



109244

109244

- Remove the bolts (4) .
- Remove:
  - the adjustment control through the dashboard,
  - the « control - cables - sheaths » assembly from the vehicle interior. Note down the position of fitting.

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

Refit:

- the « control - cables - sheaths » assembly from the vehicle interior,
- the adjustment control,
- the adjustment control bolts.

Clip on the adjustment knob.

Clip on the « cables - sheaths » assembly.

Refit the sealing sleeves.

Position the cable stop on the right-hand actuator.

Pull the sheath end piece backwards and clip it onto the right-hand actuator.

Position the right-hand actuator sealing sleeve.

Refit the cable stop on the left-hand actuator.

Pull the sheath end piece backwards and clip it onto the left-hand actuator.

Position the left-hand actuator sealing sleeve.

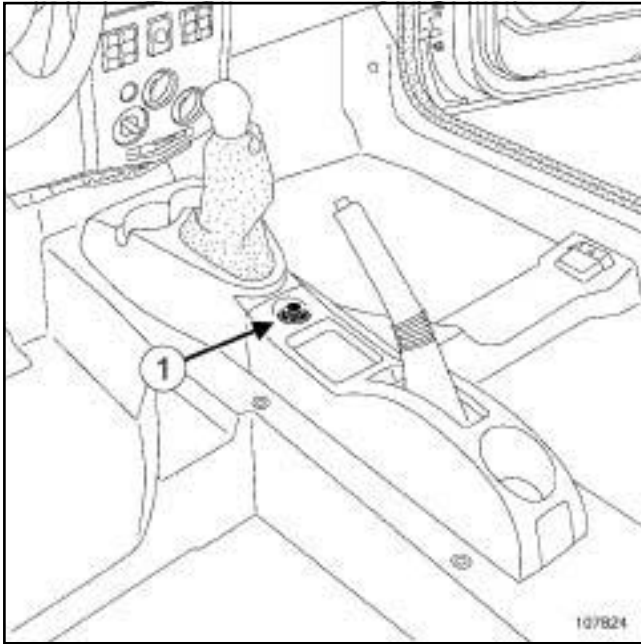
#### II - FINAL OPERATION.

Adjust the headlights (see **Halogen headlight: Adjustment**) .

2 ELECTRICALLY ADJUSTABLE EXTERNAL REAR VIEW MIRRORS

### REMOVAL

#### OPERATION FOR REMOVAL OF PART CONCERNED



107824

- Unclip the door mirror switch (1) .
- Disconnect the door mirror switch connector.

### REFITTING

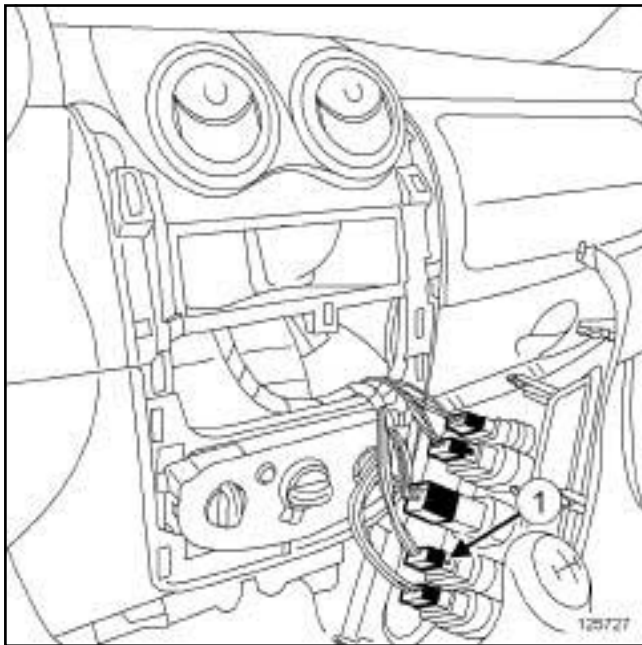
#### REFITTING OPERATION FOR PART CONCERNED

- Connect the door mirror switch connector.
- Clip on the door mirror switch.



**Heated rear screen switch: Removal - Refitting****REMOVAL****I - REMOVAL PREPARATION OPERATION**

- Remove the radio (see **86A, Radio, Radio: Removal - Refitting**, page **86A-3**).

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

125727

- Disconnect the connector (1) from the rear screen de-icing switch.
- Unclip the heated rear screen switch by moving the clips.

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

- Clip on the heated rear screen switch.
- Connect the connector to the heated rear screen switch.

**II - FINAL OPERATION.**

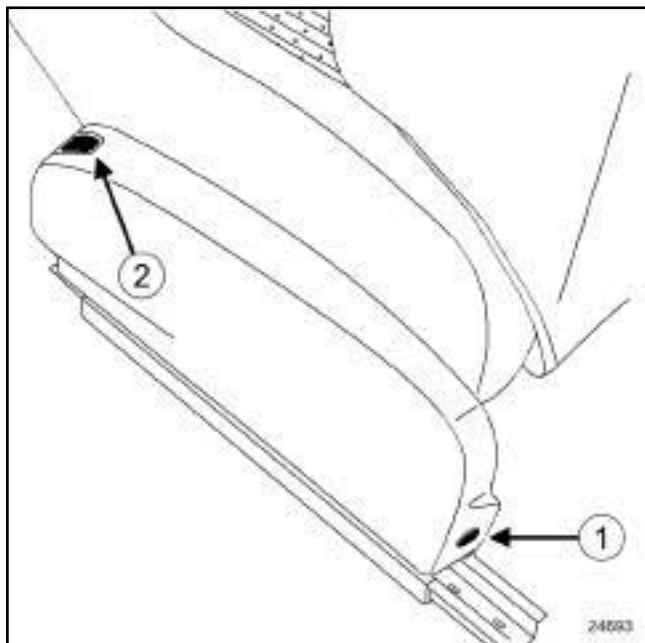
- Clip on the central trim assembly, starting at the top.
- Refit the radio (see **86A, Radio, Radio: Removal - Refitting**, page **86A-3**).

## Heated seat pad switch: Removal - Refitting

FRONT SEAT WITH HEATING

## REMOVAL

## I - REMOVAL PREPARATION OPERATION

 Remove:

- the bolt (1) from the exterior runner cover,
- the exterior runner cover.

## II - OPERATION FOR REMOVAL OF PART CONCERNED

- Unclip the heated seat cover switch (2) .
- Disconnect the heated seat cover switch connector.

## REFITTING

## I - REFITTING OPERATION FOR PART CONCERNED

- Connect the heated seat cover switch connector.
- Clip on the heated seat cover switch.

## II - FINAL OPERATION.

 Refit:

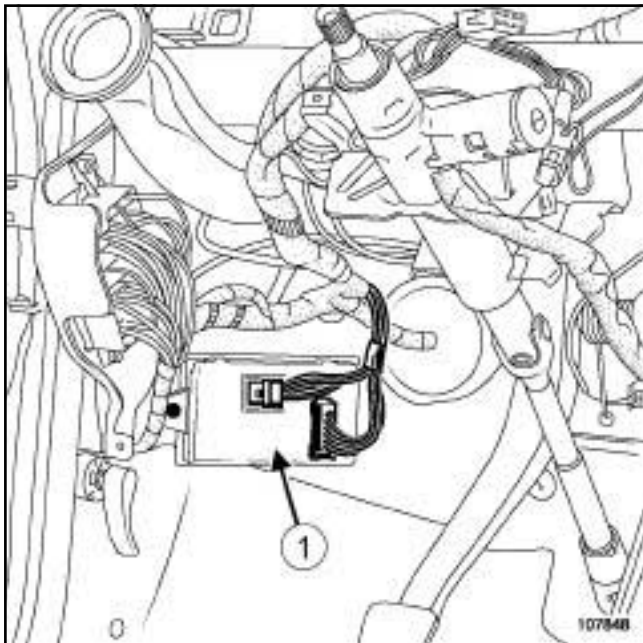
- the exterior runner cover,
- the exterior runner cover bolt.

### I - LIST OF COMPONENTS

No.	Description
(1)	UCH
(2)	Passenger compartment fuse box
(3)	Windscreen wiper switch
(4)	Windscreen wiper motor
(5)	Rear screen wiper motor
(6)	Washer pump
(7)	Windscreen washer bottle

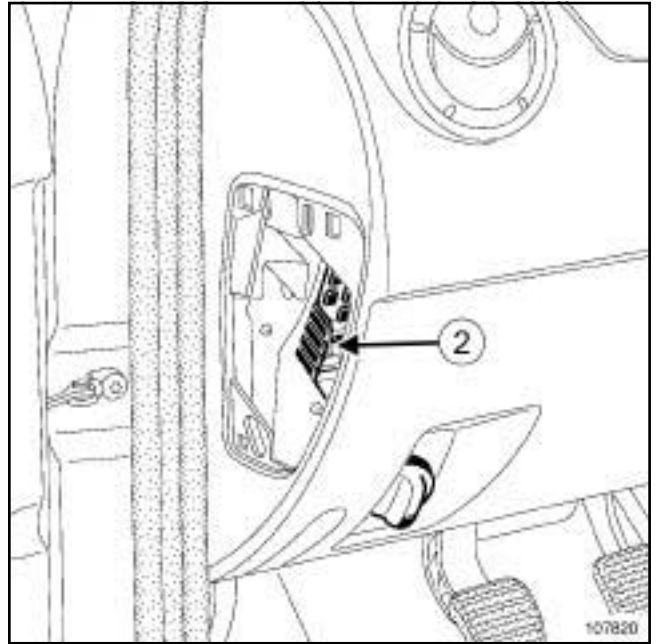
### II - LOCATION OF COMPONENTS

#### 1 - UCH



UCH (1)

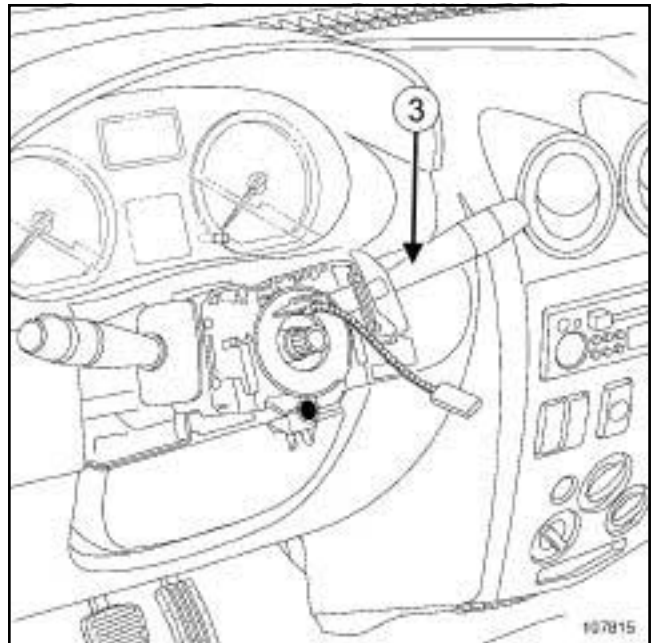
#### 2 - PASSENGER COMPARTMENT FUSE BOX



107820

Passenger compartment fuse box (2)

#### 3 - WINDSCREEN WIPER SWITCH

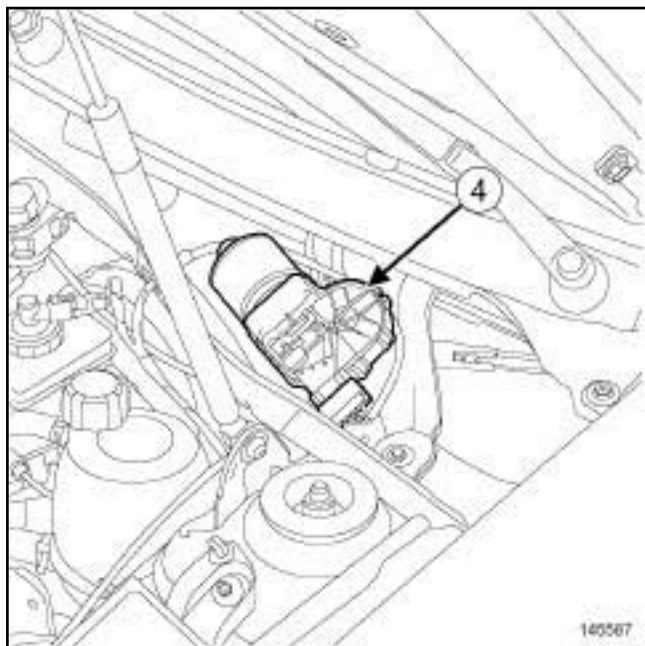


107815

Windscreen wiper switch (3)

## Wiping and washing: List and location of components

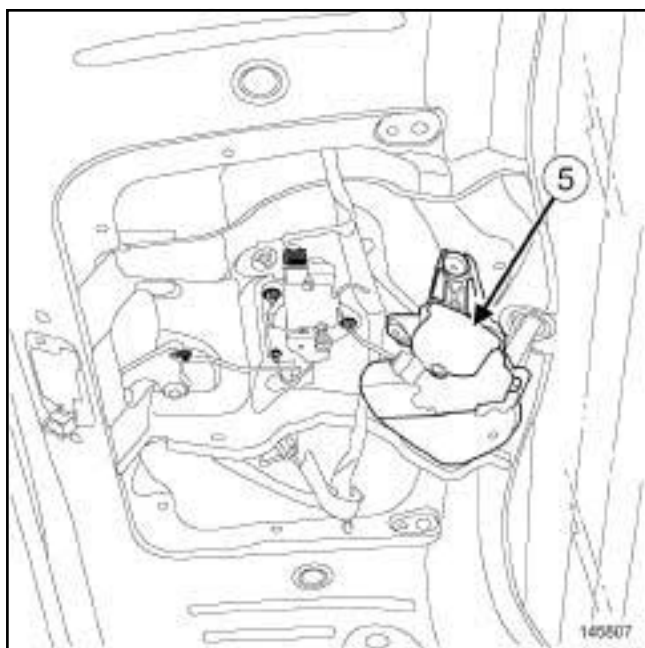
### 4 - WINDSCREEN WIPER MOTOR



145587

Windscreen wiper motor (4)

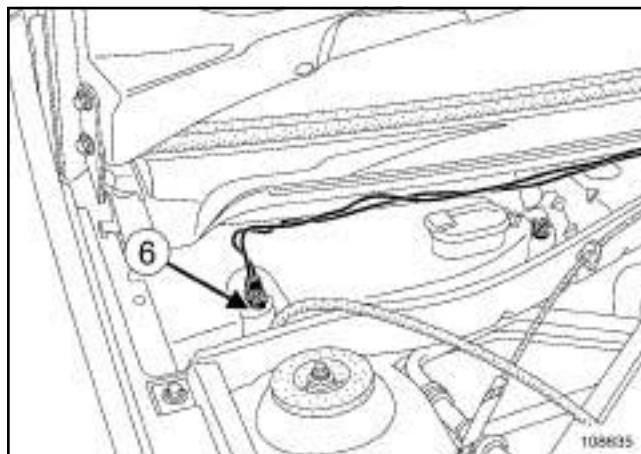
### 5 - REAR SCREEN WIPER MOTOR



145807

Rear screen wiper motor (5)

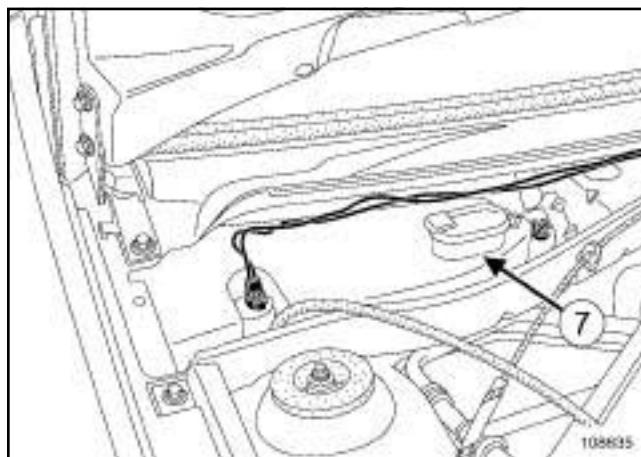
### 6 - WASHER PUMP



108635

Washer pump (6)

### 7 - WINDSCREEN WASHER BOTTLE



108635

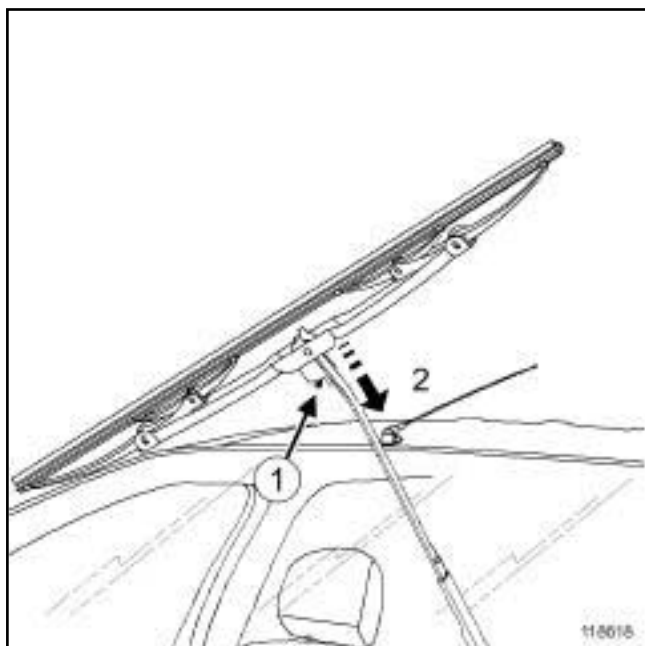
Windscreen washer bottle (7)

## Windscreen wiper blade: Removal - Refitting

### REMOVAL

#### OPERATION FOR REMOVAL OF PART CONCERNED

- Lift the wiper arm.
- Swivel the blade so it is perpendicular to the wiper arm.



- Squeeze the clips (1) and move downwards at the same time (2) .
- Remove the blade.

### REFITTING

#### REFITTING OPERATION FOR PART CONCERNED

- Clip the blade onto the wiper arm.
- Lower the wiper arm.

# WIPING - WASHING

## Windscreen wiper arm: Removal - Refitting

# 85A

### Tightening torques

wiper arm nuts	16 N.m
----------------	--------

## REMOVAL

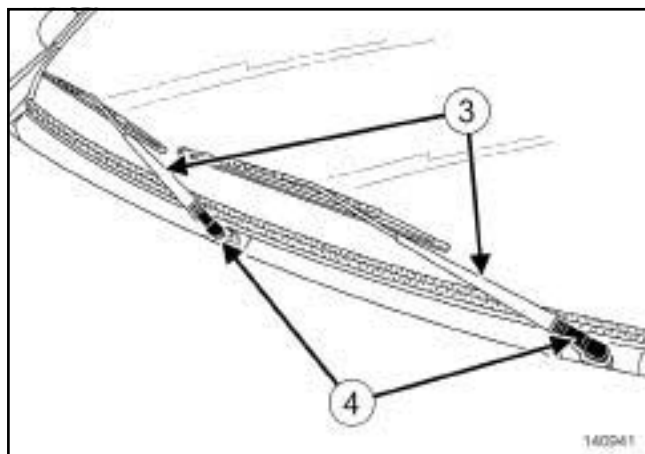
### I - REMOVAL PREPARATION OPERATION

- Switch on the ignition.

#### WARNING

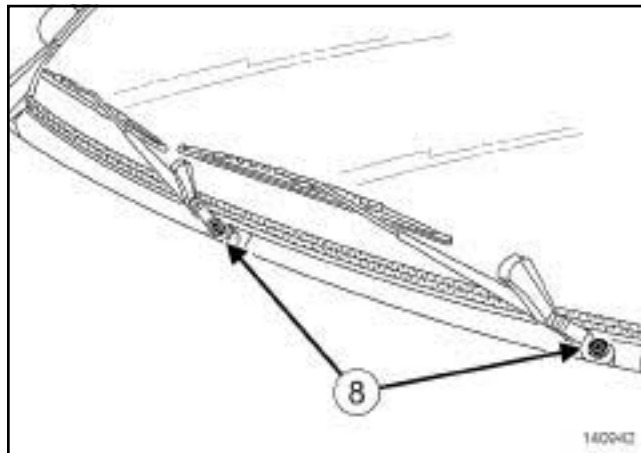
To ensure that the wiper arms can travel smoothly, the wiper motor must be initialised.

- Turn the wiper stalk from (0) to (1), and then from (1) to (0).
- Switch off the ignition.



- Mark the position of the wiper arms (3) .
- Fold back the nut covers (4) .

### II - OPERATION FOR REMOVAL OF PART CONCERNED



- Remove the windscreen wiper arm nuts (8) .
- Remove the wiper arms using the.

## REFITTING

### I - REFITTING OPERATION FOR PART CONCERNED

- Switch on the ignition.

#### WARNING


To ensure that the wiper arms can travel smoothly, the wiper motor must be initialised.

- Turn the wiper stalk from (0) to (1), and then from (1) to (0).
- Switch off the ignition.
- Refit:
  - the wiper arms in the position marked before removal,
  - the wiper arm nuts.
- Torque tighten the **wiper arm nuts (16 N.m)**.

### II - FINAL OPERATION

- Fit the nut covers.

## Windscreen wiper motor: Removal - Refitting

Tightening torques 	
windscreen wiper motor bolts	8 N.m
windscreen wiper motor shaft nut	16 N.m

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

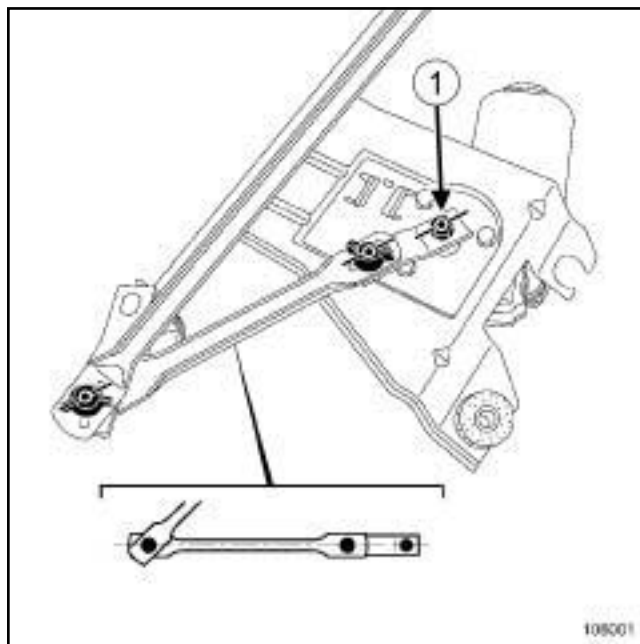
#### WARNING

To ensure that the wiper arms can travel smoothly, the wiper motor must be initialised.

- Turn the wiper stalk from (0) to (1), and then from (1) to (0).
- Remove the wiper arms (see **85A, Wiping - Washing, Windscreen wiper arm: Removal - Refitting, page 85A-4**).
- Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting, page 80A-2**).
- Remove:
  - the scuttle panel grille,
  - the front windscreen wiper mechanism (see **85A, Wiping - Washing, Windscreen wiper mechanism: Removal - Refitting, page 85A-8**).

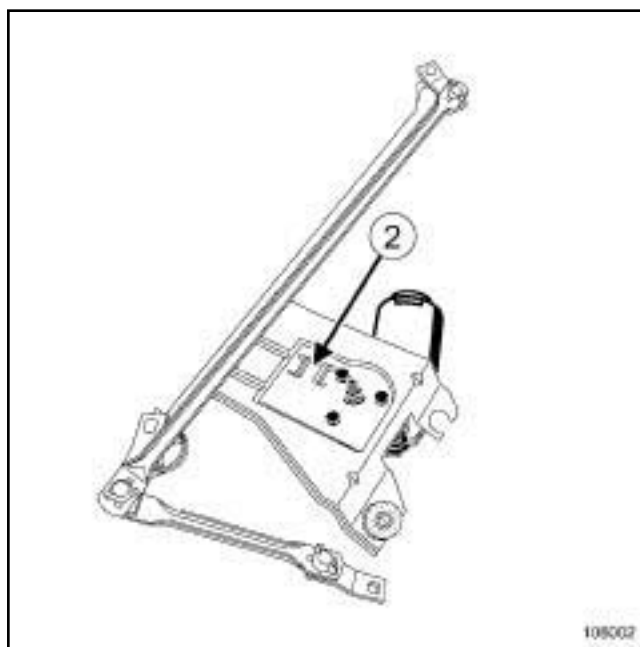
#### II - OPERATION FOR REMOVAL OF PART CONCERNED

##### LEFT-HAND DRIVE



108001

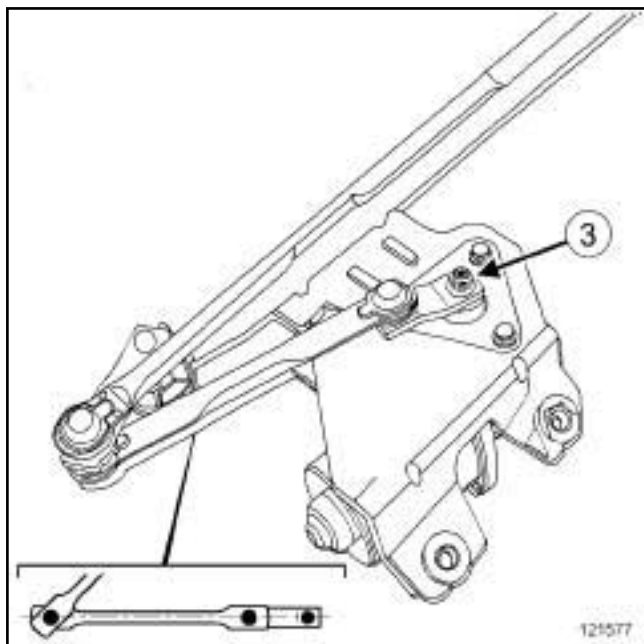
- Remove the windscreen wiper motor shaft nut (1).



108002

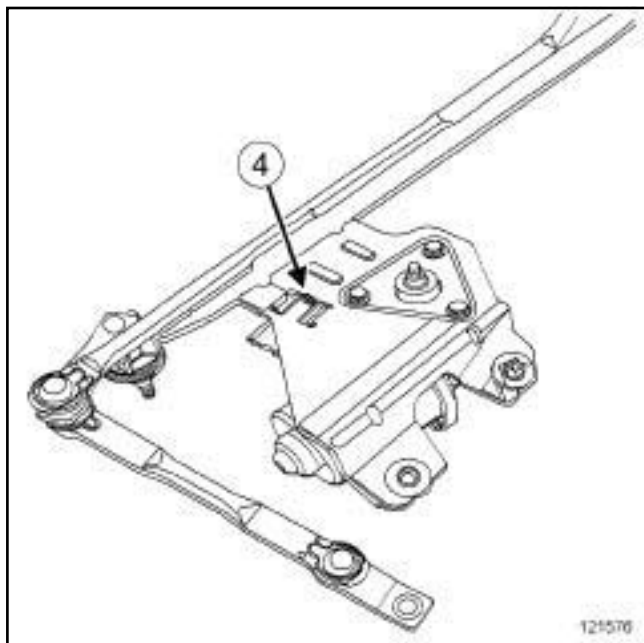
- Unclip the windscreen wiper motor connector (2).

### RIGHT-HAND DRIVE



121577

- Remove the windscreen wiper motor shaft nut (3) .



121576

- Unclip the windscreen wiper motor connector (4) .

- Remove:

- the bolts from the windscreen wiper motor,
- the windscreen wiper motor.

### REFITTING

#### I - REFITTING PREPARATION OPERATION

- Connect:
  - the windscreen wiper motor,
  - the battery (see 80A, **Battery, Battery: Removal - Refitting**, page 80A-2) .

#### WARNING

To ensure that the wiper arms can travel smoothly, the wiper motor must be initialised.

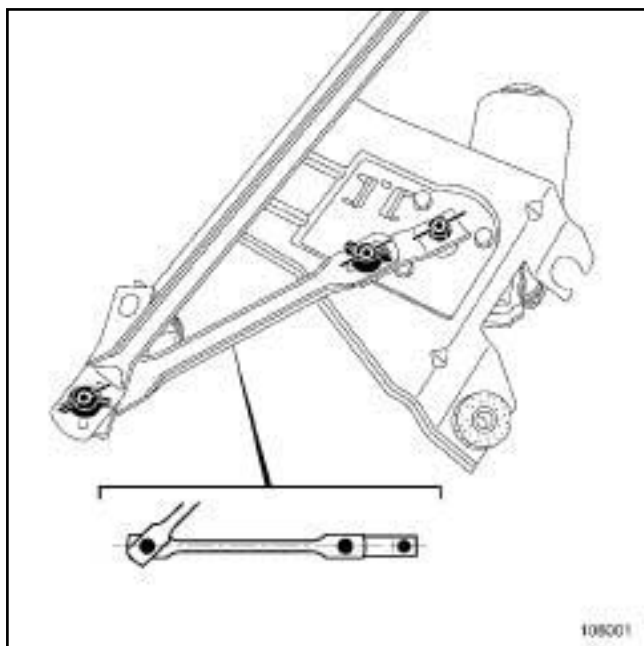
- Turn the wiper stalk from (0) to (1), and then from (1) to (0).
- Disconnect:
  - the battery (see 80A, **Battery, Battery: Removal - Refitting**, page 80A-2) ,
  - the windscreen wiper motor.

#### II - REFITTING OPERATION FOR PART CONCERNED

- Refit:
  - the windscreen wiper motor,
  - the windscreen wiper motor bolts.
- Torque tighten the **windscreen wiper motor bolts (8 N.m)**.
- Clip the windscreen wiper motor connector.



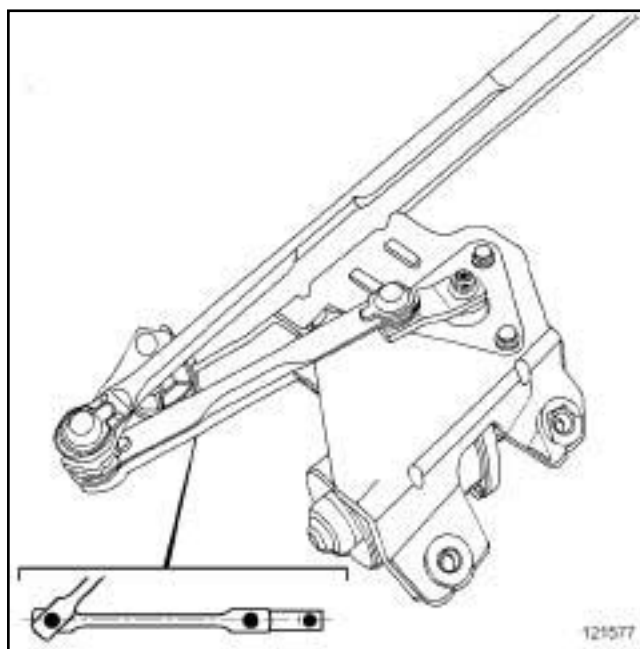
## LEFT-HAND DRIVE



108001

- Position the linkages as shown in the above illustration.

## RIGHT-HAND DRIVE



121577

- Position the linkages as shown in the above illustration.

- Refit the windscreen wiper motor shaft nut.
- Torque tighten the **windscreen wiper motor shaft nut (16 N.m)**.

## III - FINAL OPERATION


- Refit:
  - the windscreen wiper mechanism (see **85A, Wiping - Washing, Windscreen wiper mechanism: Removal - Refitting, page 85A-8**),
  - the scuttle panel grille.
- Connect the battery (see **80A, Battery, Battery: Removal - Refitting, page 80A-2**).

**WARNING**

To ensure that the wiper arms can travel smoothly, the wiper motor must be initialised.

- Turn the wiper stalk from (0) to (1), and then from (1) to (0).
- Refit the wiper arm (see **85A, Wiping - Washing, Windscreen wiper arm: Removal - Refitting, page 85A-4**).

## Windscreen wiper mechanism: Removal - Refitting

Tightening torques 	
windscreen wiper mechanism bolts	8 N.m
windscreen wiper mechanism nuts	8 N.m

### REMOVAL

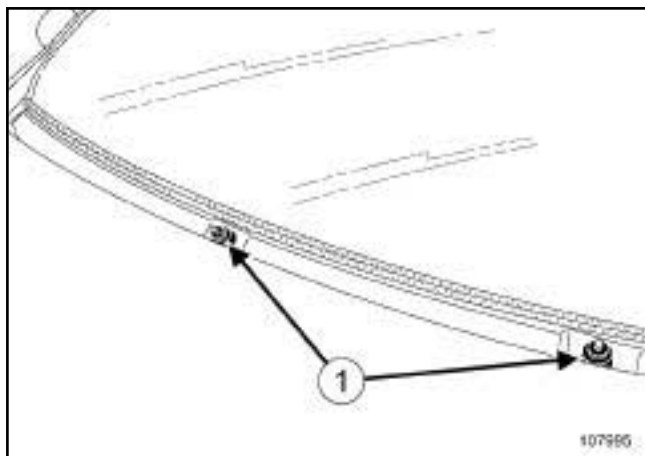
#### I - REMOVAL PREPARATION OPERATION

#### WARNING

To ensure that the wiper arms can travel smoothly, the wiper motor must be initialised.

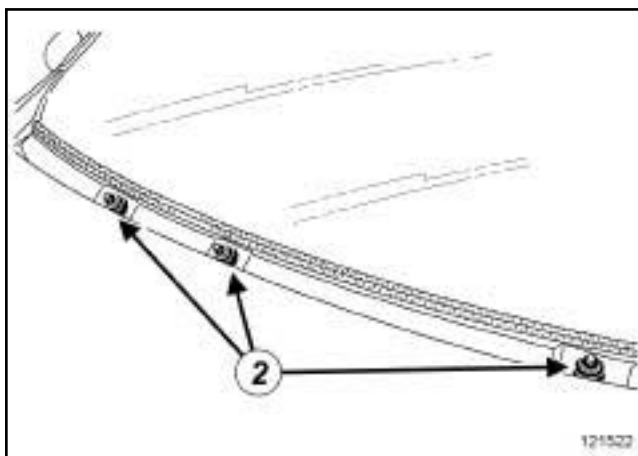
- Turn the wiper stalk from (0) to (1), and then from (1) to (0).
- Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-2**).
- Remove the wiper arms (see **85A, Wiping - Washing, Windscreen wiper arm: Removal - Refitting**, page **85A-4**).

#### LEFT-HAND DRIVE

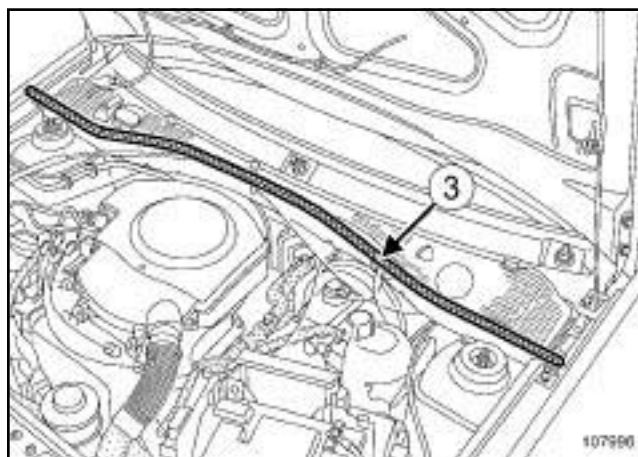


- Remove the nut covers (1).

#### RIGHT-HAND DRIVE

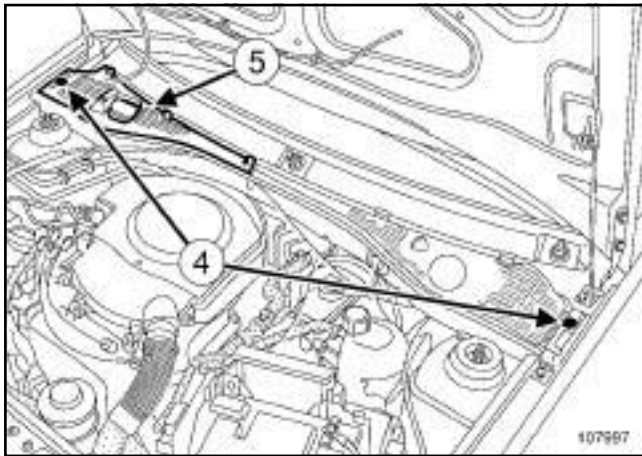


- Remove the nut covers (2).



- Remove the engine compartment seal (3).

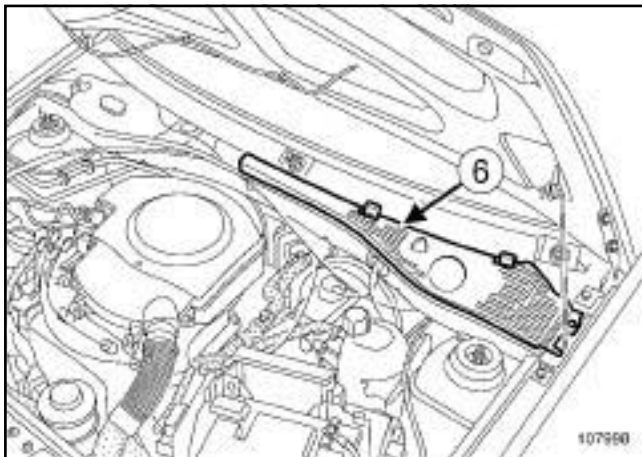
## Windscreen wiper mechanism: Removal - Refitting



107997

❑ Remove:

- the two scuttle half-grille bolts (4) ,
- the right-hand scuttle half-grille (5) .

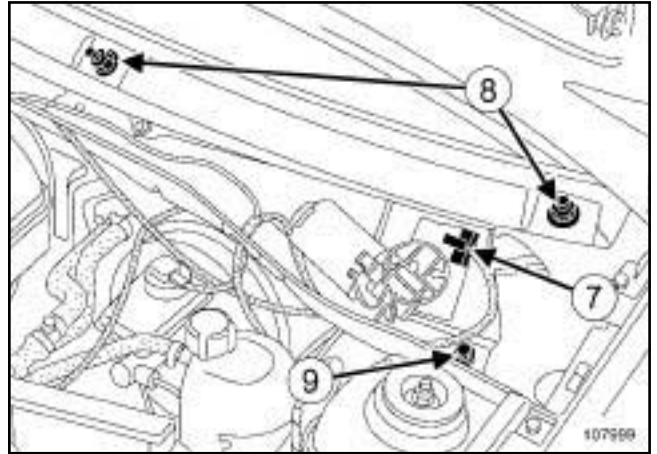


107998

- ❑ Remove the left-hand scuttle half-grille (6) .

### II - OPERATION FOR REMOVAL OF PART CONCERNED

#### LEFT-HAND DRIVE



107999

- ❑ Disconnect the windscreen wiper motor connector (7) .

**Note:**

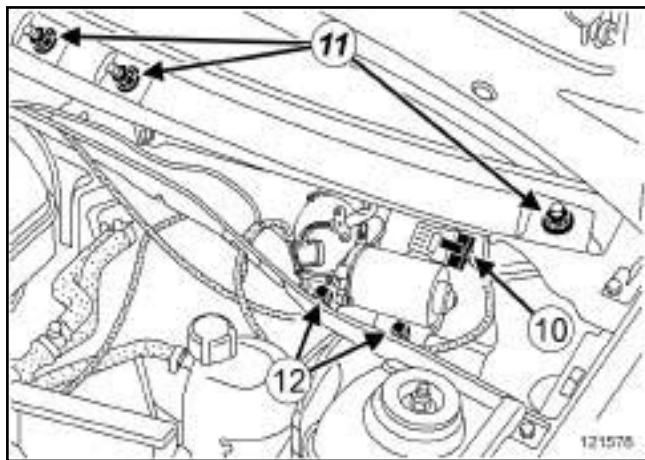
The windscreen wiper motor mechanism mountings (8) are fragile: the threads are plastic.

❑ Remove:

- the windscreen wiper mechanism bolts (8) ,
- the windscreen wiper mechanism bolt (9) ,
- the washers.

## Windscreen wiper mechanism: Removal - Refitting

### RIGHT-HAND DRIVE



- Disconnect the windscreen wiper motor connector (10) .
- Remove:
  - the windscreen wiper mechanism bolts (11) ,
  - the front windscreen wiper mechanism bolts (12) ,
  - the washers.

- Remove the windscreen wiper mechanism.

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

- Refit:
  - the windscreen wiper mechanism,
  - the washers,
  - the windscreen wiper mechanism bolts,
  - the windscreen wiper mechanism bolts.
- Torque tighten:
  - the **windscreen wiper mechanism bolts (8 N.m)**,
  - the **windscreen wiper mechanism nuts (8 N.m)**.
- Connect the windscreen wiper motor connector.

#### II - FINAL OPERATION

- Refit:
  - the left-hand scuttle half-grille,
  - the right-hand scuttle half-grille,

- the two scuttle panel grille side bolts,
- the engine compartment seal,
- the windscreen wiper mechanism bolt covers.

- Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-2**) .

#### WARNING

To ensure that the wiper arms can travel smoothly, the wiper motor must be initialised.

- Turn the wiper stalk from (0) to (1), and then from (1) to (0).
- Refit the wiper arm (see **85A, Wiping - Washing, Windscreen wiper arm: Removal - Refitting**, page **85A-4**) .

## Rear screen wiper arm: Removal - Refitting

### REAR SCREEN WIPER

#### Special tooling required

<b>Ele. 1781</b>	Tool for removing windscreen wiper arms
------------------	-----------------------------------------

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

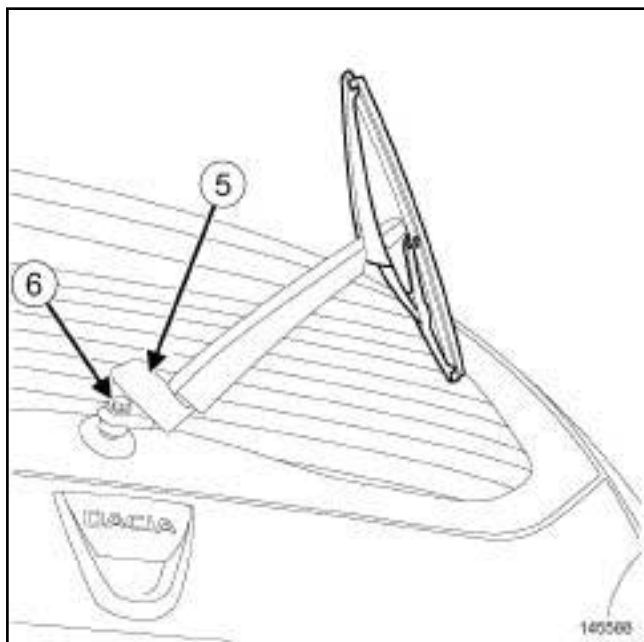
- Switch on the ignition.

#### WARNING

To ensure that the wiper arms can travel smoothly, the wiper motor must be initialised.

- Turn the wiper stalk from (0) to (1), and then from (1) to (0).
- Switch off the ignition.
- Mark the position of the wiper arm.

#### II - REMOVAL OPERATION



- Pull down the nut cover (5) .
- Remove the nut (6) from the wiper arm.
- Remove the wiper arm using the (Ele. 1781).
- Remove the rear screen wiper blade (see **Rear screen wiper blade: Removal - Refitting**) .

### REFITTING

#### I - REFITTING PREPARATION OPERATION

- Switch on the ignition.

#### WARNING

To ensure that the wiper arms can travel smoothly, the wiper motor must be initialised.

- Turn the wiper stalk from (0) to (1), and then from (1) to (0).
- Switch off the ignition.

#### II - REFITTING OPERATION

- Refit the rear screen wiper blade.
- Refit:
  - the wiper arm,
  - the wiper arm nut.
- Fit the nut cover.

## Rear screen wiper motor: Removal - Refitting

## REMOVAL

## I - REMOVAL PREPARATION OPERATION

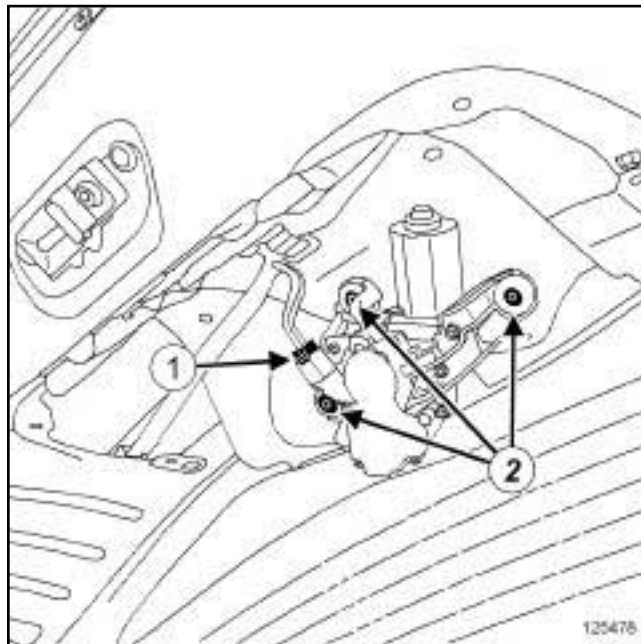
- Switch on the ignition.

**WARNING**

To ensure that the wiper arms can travel smoothly, the wiper motor must be initialised.

- Move the wiper stalk from (0) to (1), then from (1) to (0).
- Switch off the ignition.
- Remove:
  - the rear screen wiper arm (see **85A, Wiping - Washing, Rear screen wiper arm: Removal - Refitting**, page **85A-11**),
  - the tailgate trim (see **Tailgate trim: Removal - Refitting**) (MR 389, 73A, Non-side opening elements trim).

## II - OPERATION FOR REMOVAL OF PART CONCERNED



- Disconnect the supply connector (1) from the rear screen wiper motor.

**Note:**

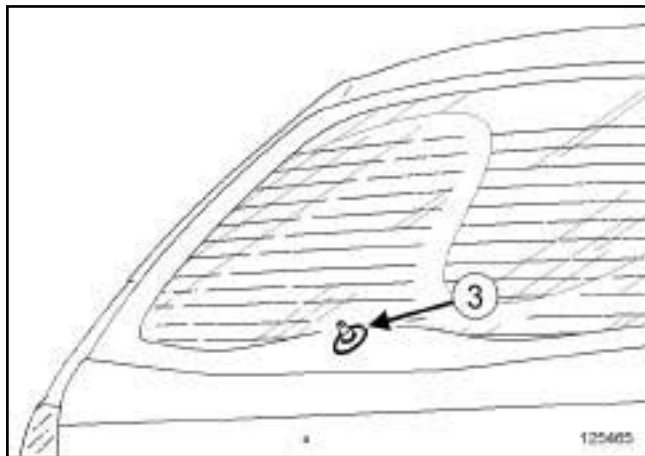
Take care not to damage the outer skin and door box section with the drill bit. Retrieve the rivet bodies in the door box section.

- Drill out the rivets (2) (see **MR 400, 40A, General information**).
- Remove the rear screen wiper motor.

## Rear screen wiper motor: Removal - Refitting

## REFITTING

## I - REFITTING PREPARATION OPERATION



125465

- Replace the seal (3) if necessary.

## II - REFITTING OPERATION FOR PART CONCERNED

- Position and rivet the rear screen wiper motor (see **MR 400, 40A, General information**).
- Connect the rear screen wiper motor supply connector.

## III - FINAL OPERATION.

- Switch on the ignition.

**WARNING**

To ensure that the wiper arms can travel smoothly, the wiper motor must be initialised.

- Move the wiper stalk from (0) to (1), then from (1) to (0).
- Switch off the ignition.
- Refit:
  - the tailgate trim (see **Tailgate trim: Removal - Refitting**) (MR 389, 73A, Non-side opening elements trim),
  - the rear screen wiper arm (see **85A, Wiping - Washing, Rear screen wiper arm: Removal - Refitting**, page 85A-11) .

# WIPING - WASHING

## Screen washer pump: Removal - Refitting

# 85A

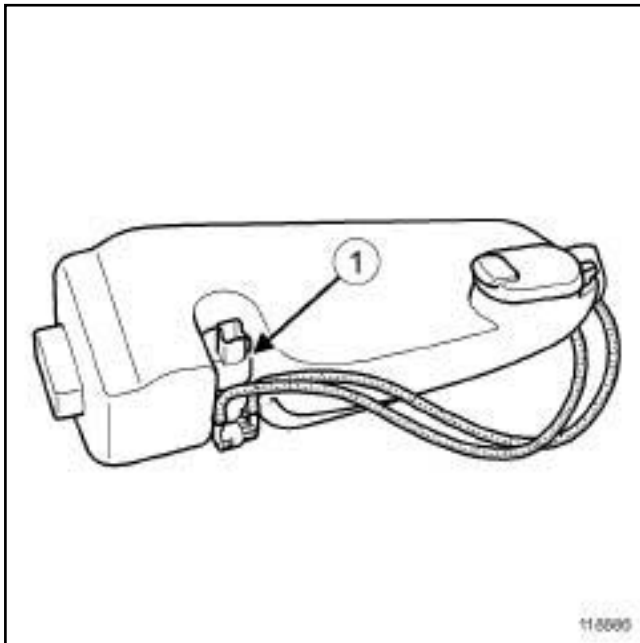
LEFT-HAND DRIVE

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

- Remove the windscreen washer bottle (see **85A, Wiping - Washing, Windscreen washer reservoir: Removal - Refitting**, page **85A-17**).

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



118886

- Disconnect the windscreen washer pump (1) from the bottle.
- Disconnect the windscreen washer pump pipes.

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

- Connect the windscreen washer pump pipes.
- Fit the windscreen washer pump onto the bottle.

#### II - FINAL OPERATION

- Refit the windscreen washer bottle (see **85A, Wiping - Washing, Windscreen washer reservoir: Removal - Refitting**, page **85A-17**).

- Check that the assembly works correctly.

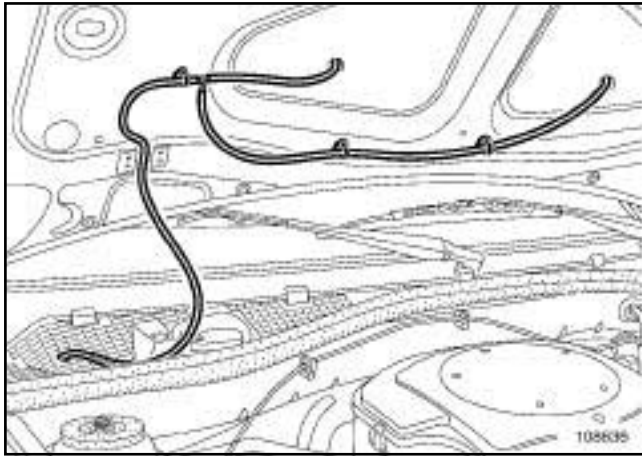
#### Note:

Adjust the position of the windscreen washer jets if necessary using a needle.



### REMOVAL

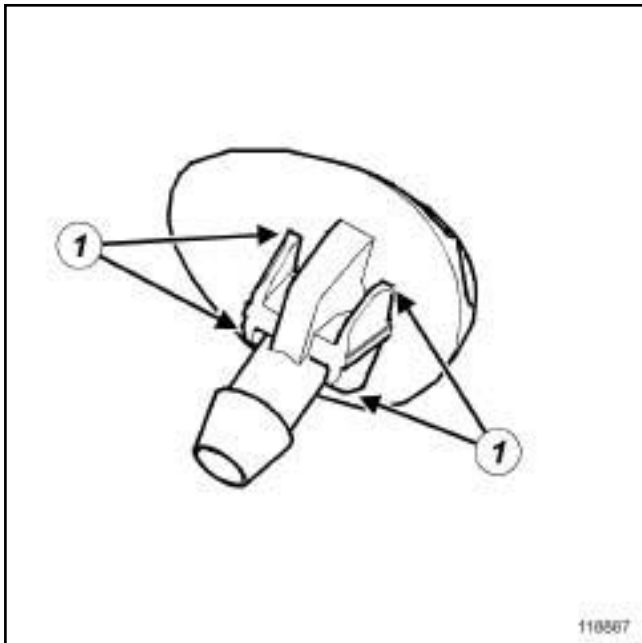
#### I - REMOVAL PREPARATION OPERATION



108636

- Disconnect the jet supply pipe.

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



118887

- Unclip the windscreen washer jet by prising the clips (1) using a flat screwdriver.

**Note:**

Take care not to damage the paintwork on the bonnet.

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

- Clip the washer jet.

#### II - FINAL OPERATION

- Connect the jet supply pipe.
- Check that the assembly works correctly.
- Adjust the position of the rear windscreen washer jet if necessary using a needle.

# WIPING - WASHING

## Rear screen washer jet: Removal - Refitting

# 85A

REAR SCREEN WIPER

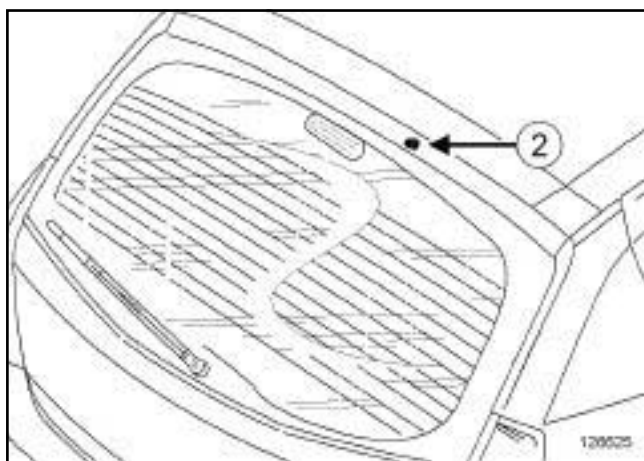
### Special tooling required

Car. 1363      Set of trim removal levers.

## REMOVAL

### I - REMOVAL PREPARATION OPERATION

### II - REMOVAL OPERATION



126625

- Unclip the rear screen washer jet (2) using tool (Car. 1363).
- Disconnect the rear screen washer jet supply pipe.

## REFITTING

### I - REFITTING OPERATION

- Connect the rear screen washer jet supply pipe.
- Clip the rear screen washer jet.

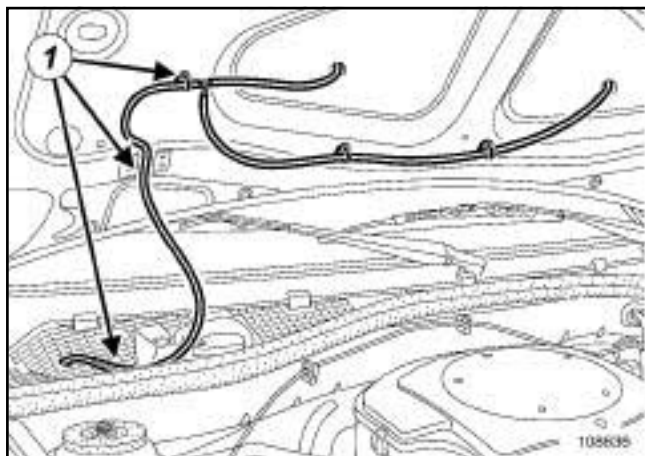
### II - FINAL OPERATION

## Windscreen washer reservoir: Removal - Refitting

LEFT-HAND DRIVE

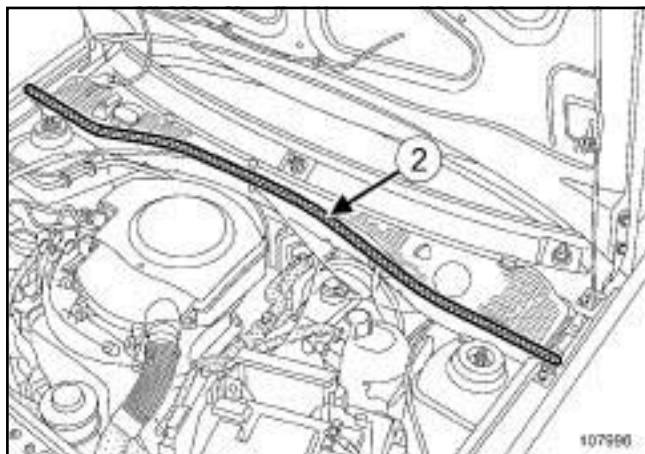
### REMOVAL

#### I - REMOVAL PREPARATION OPERATION



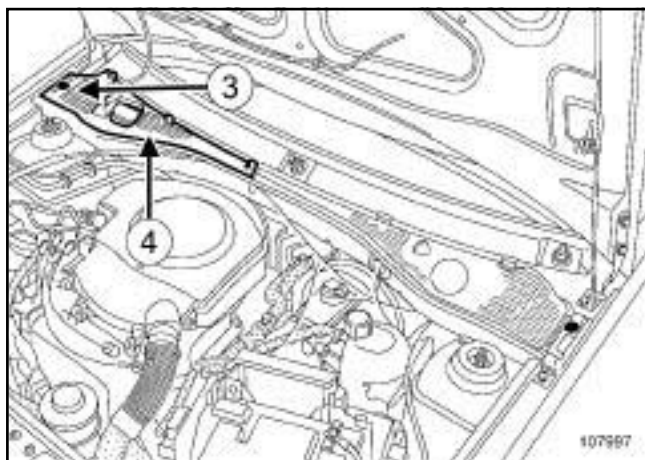
108636

- Detach the pipe at (1) .



107996

- Remove the engine compartment seal (2) .

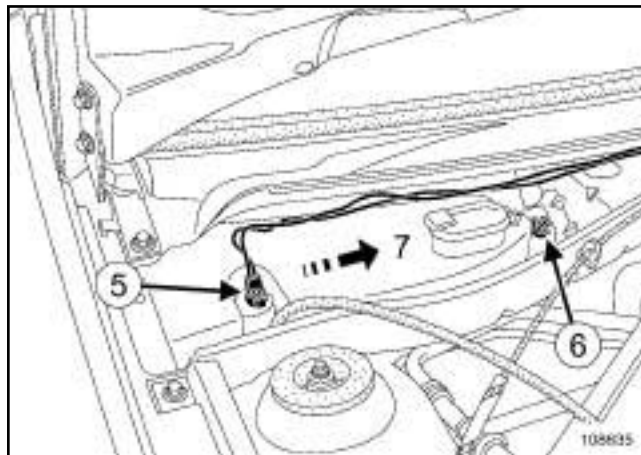


107997

- Remove:
  - the side bolt (3) from the scuttle half-grille,

- the right-hand scuttle half-grille (4) .

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



108635

- Disconnect the connector (5) from the windscreen washer pump.
- Remove:
  - the bolt (6) from the windscreen washer bottle,
  - the windscreen washer bottle by pulling it in the direction of the arrow (7) .
- Drain the windscreen washer bottle.
- Disconnect the windscreen washer pump from the bottle.

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

- Fit the windscreen washer pump onto the bottle.
- Refit:
  - the windscreen washer bottle,
  - the windscreen washer bottle bolt.

#### II - FINAL OPERATION.

- Connect the windscreen washer pump connector.
- refit:
  - the right-hand scuttle half-grille,
  - the side bolt to the scuttle half-grille,
  - the engine compartment seal.
- Clip the pipe at (1) .
- Fill-up the windscreen washer bottle.

## Radio: List and location of components

RADIO NO. 01 or RADIO NO. 02

### I - LIST OF COMPONENTS

No.	Description
(1)	Radio
(2)	Aerial
(3)	Front speakers
(4),(5)	Rear speakers

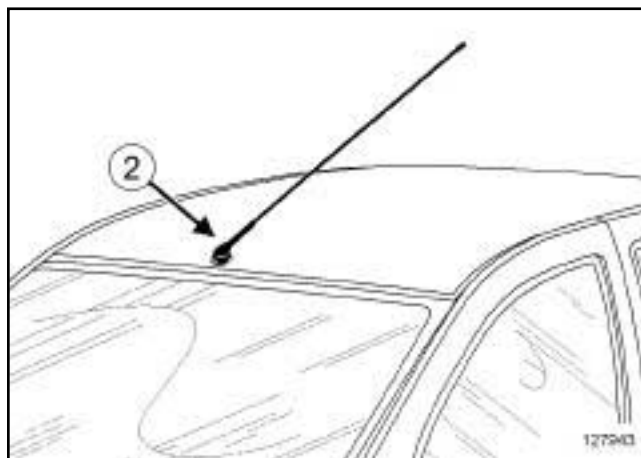
### II - LOCATION OF COMPONENTS

#### 1 - RADIO



107821

#### 2 - AERIAL

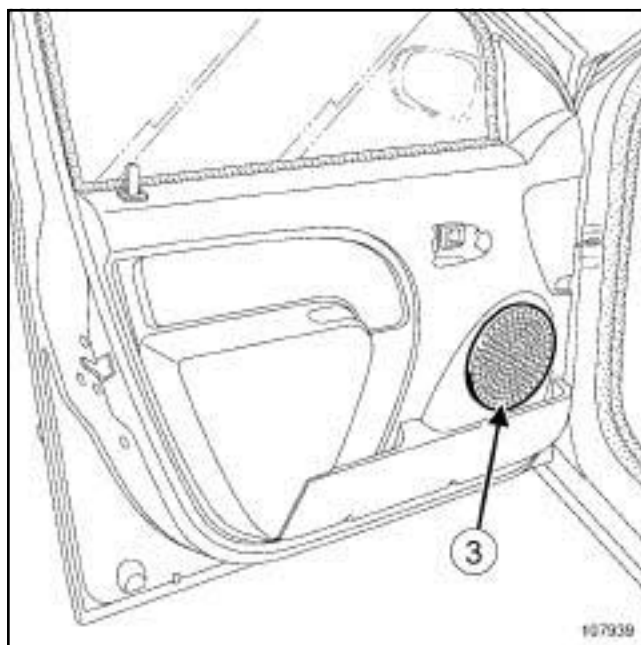


127943

127943

The radio aerial (2) is located on the roof

#### 3 - FRONT SPEAKERS



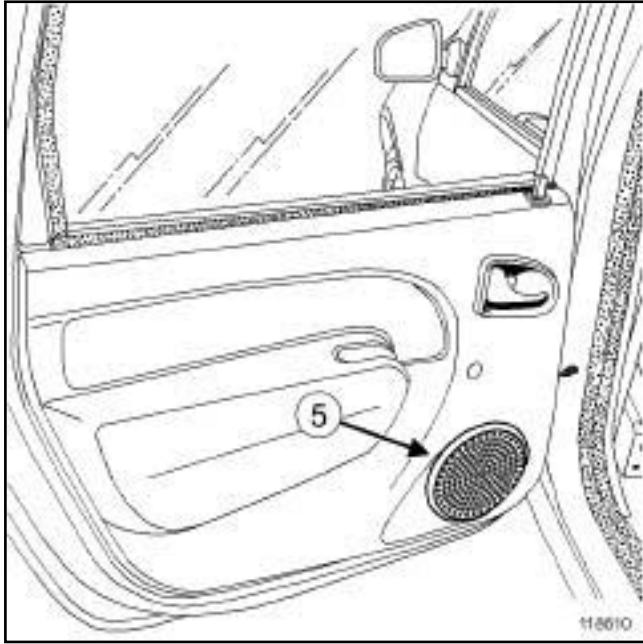
107939

107939

## Radio: List and location of components

RADIO NO. 01 or RADIO NO. 02

### 4 - REAR SPEAKERS



118610

## Radio: Removal - Refitting

RADIO NO. 01 or RADIO NO. 02

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

- Switch off the ignition.

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



119085

- Remove the radio (1) using the two.

#### WARNING

To ensure correct operation:

- do not pinch the aerial cable,
- do not bend the aerial cable,
- do not force the aerial cable when refitting.

#### WARNING

To prevent any risk of noise, premature wear, short circuits, etc. after the refitting operation, mark the wiring routing and how to connect the connectors.

Mark the routing of the wiring behind the radio.

- Disconnect the connectors.

### REFITTING

#### I - REFITTING PREPARATION OPERATION

Note:

Ensure that the ignition is switched off.

#### II - REFITTING OPERATION FOR PART CONCERNED

- Connect the various connectors.
- Fit the wiring in the position marked during removal.
- Refit the radio in its housing.

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

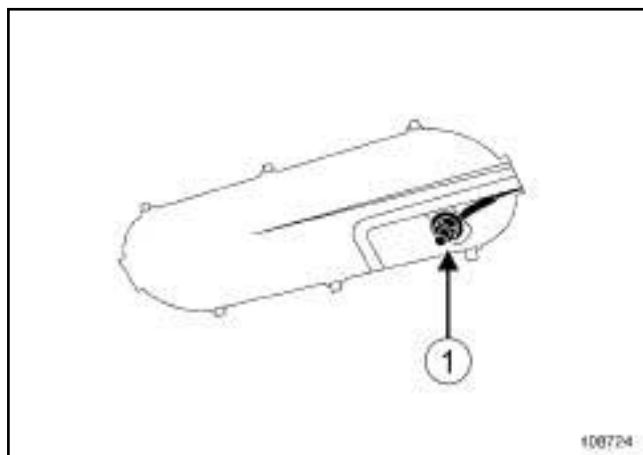
Note:

The radio aerial is located on the front roof.

Remove:

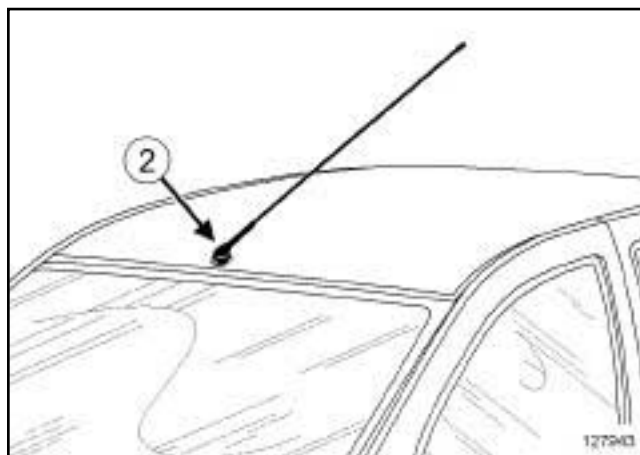
- front courtesy light (see **81B, Interior lighting, Interior light: Removal - Refitting**, page **81B-3**),
- the headlining partially (see **Headlining: Removal - Refitting**) (MR 389, 71A, Body internal trim).

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



108724

- Remove the radio aerial nut (1) .
- Disconnect the connector from the radio aerial cable.



127943

- Remove the radio aerial (2) .

Note:

To remove the radio aerial cable, remove the dashboard (see **Dashboard: Removal - Refitting**) (MR 389, 57A, Interior equipment).

### REFITTING

#### REFITTING OPERATION FOR PART CONCERNED

- Refit the radio aerial.
- Connect the radio aerial cable connector.
- Refit the radio aerial nut.

#### FINAL OPERATION

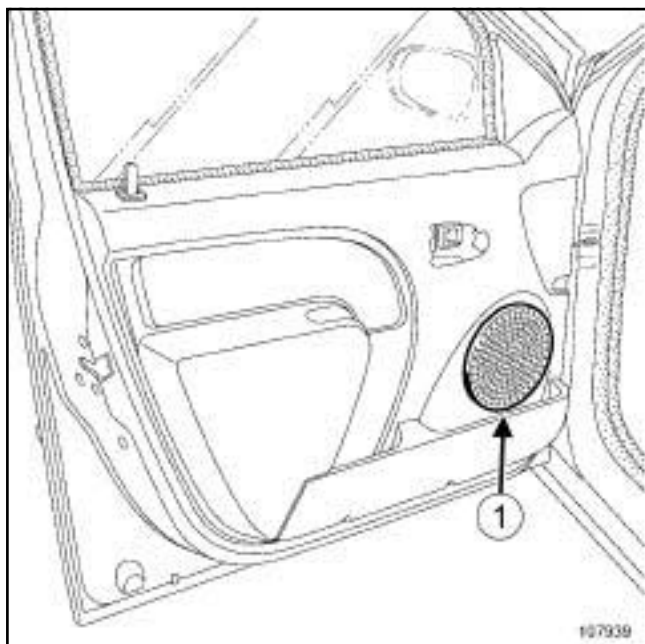
- Refit:
  - the headlining (see **Headlining: Removal - Refitting**) (MR 389, 71A, Body internal trim),
  - front courtesy light (see **81B, Interior lighting, Interior light: Removal - Refitting**, page **81B-3**) .

## Front speakers: Removal - Refitting

RADIO NO. 01 or RADIO NO. 02

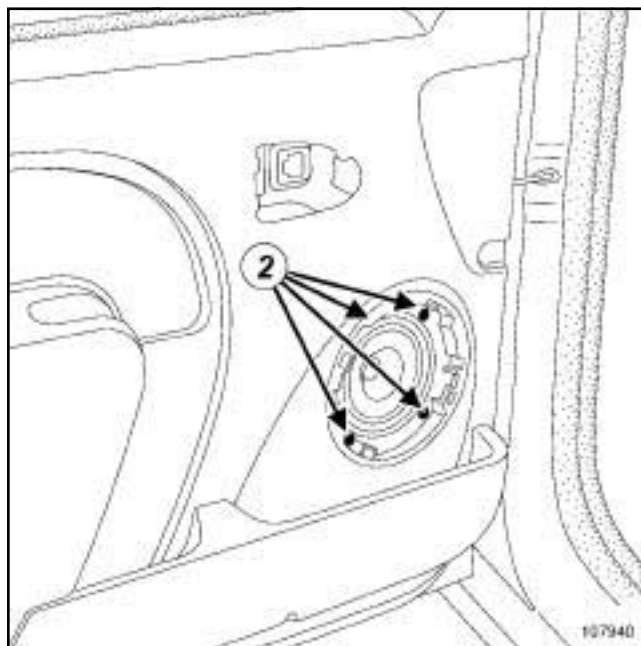
### REMOVAL

#### I - REMOVAL PREPARATION OPERATION



- Unclip the front speaker grille (1) .

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



- Remove:
  - the bolts (2) from the front speaker,
  - the front speaker.
- Disconnect the front speaker connector.

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

- Connect the front speaker connector.
- Refit:
  - the front speaker,
  - the front speaker bolts.

#### II - FINAL OPERATION.

- Clip on the front speaker grille.

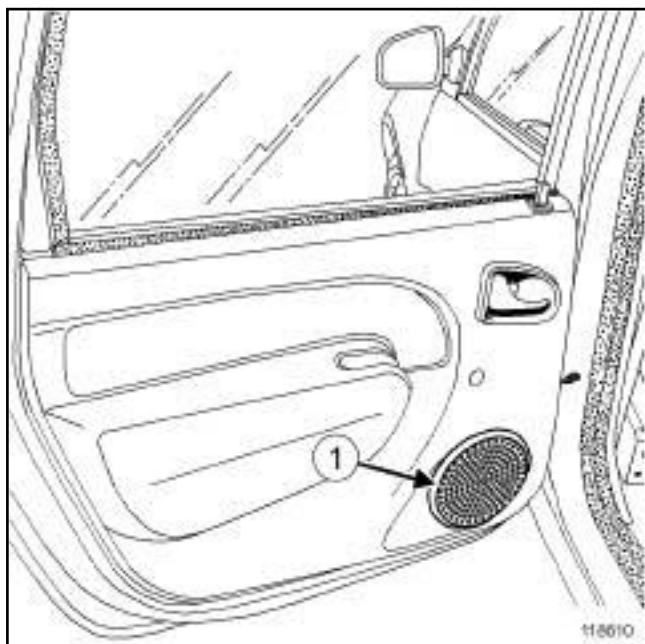


## Rear speakers: Removal - Refitting

RADIO NO. 01 or RADIO NO. 02

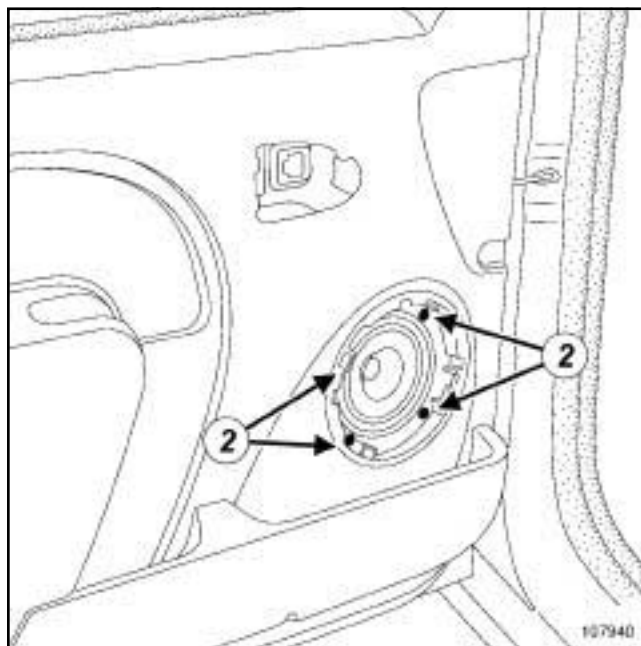
### REMOVAL

#### I - REMOVAL PREPARATION OPERATION



- Unclip the rear speaker grille (1) .

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



- Remove:
  - the bolts (2) ,
  - the speaker.
- Disconnect the connector.

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

- Connect the connector.
- Refit:
  - the speaker,
  - the bolts.

#### II - FINAL OPERATION.

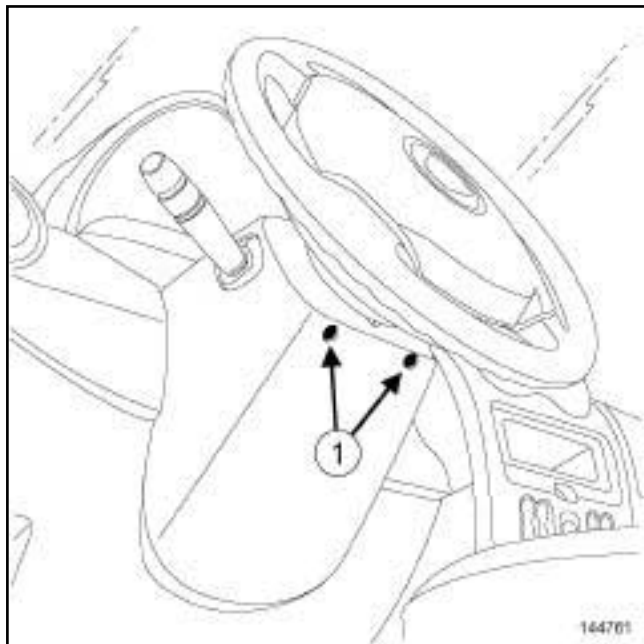
- Clip in the rear speaker grille.

## Radio control satellite: Removal - Refitting

## REMOVAL

## I - REMOVAL PREPARATION OPERATION

- Switch off the ignition.



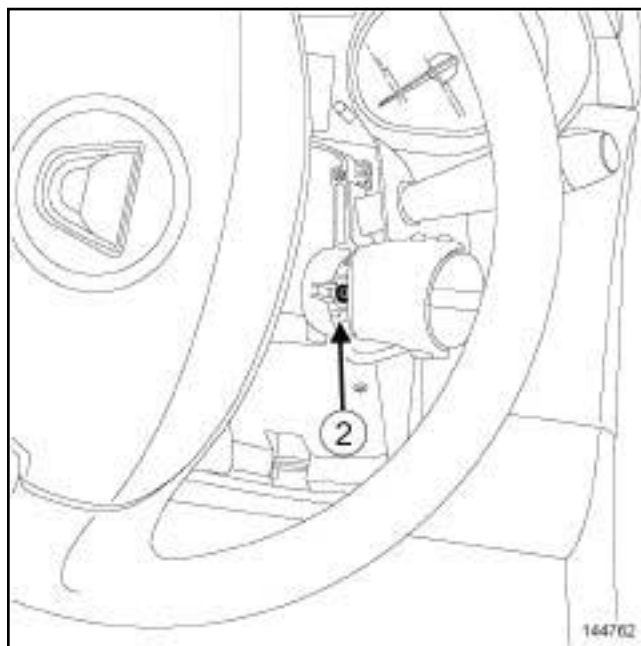
- Remove the bolts (1) from the shells under the steering wheel.
- Put the steering column into the lower position.
- Remove the upper cover.
- Place the steering column in the upper position.
- Remove the lower cover.

## II - REMOVAL OPERATION

- 

Note:

The steering column switch assembly does not need to be removed.



144762

- Remove the radio control satellite bolt (2) .
- Disconnect the radio control satellite connector.
- Remove the radio control satellite.

## REFITTING

## I - REFITTING OPERATION

- Connect the radio control satellite connector.
- Refit the radio control satellite.

## II - FINAL OPERATION

- Proceed in the reverse order to removal.

# PASSENGER COMPARTMENT CONNECTION UNIT

## UCH: Removal - Refitting

# 87B

### Equipment required

Diagnostic tool

## REMOVAL

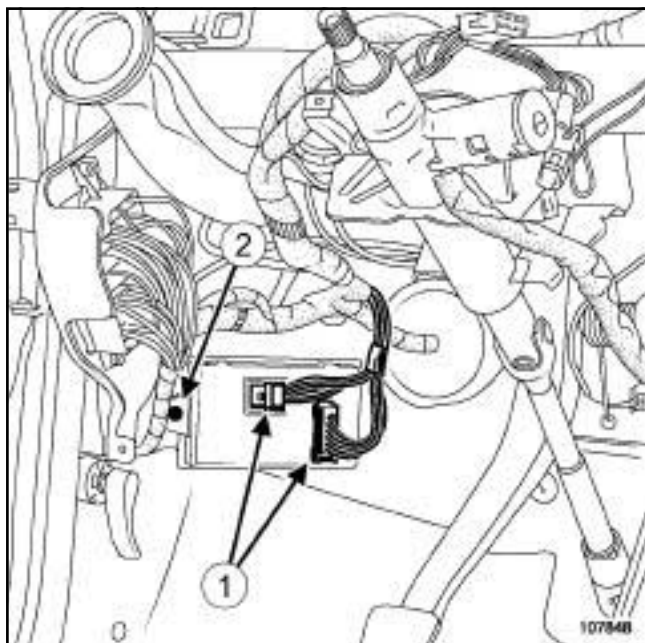
### I - REMOVAL PREPARATION OPERATION

Note:

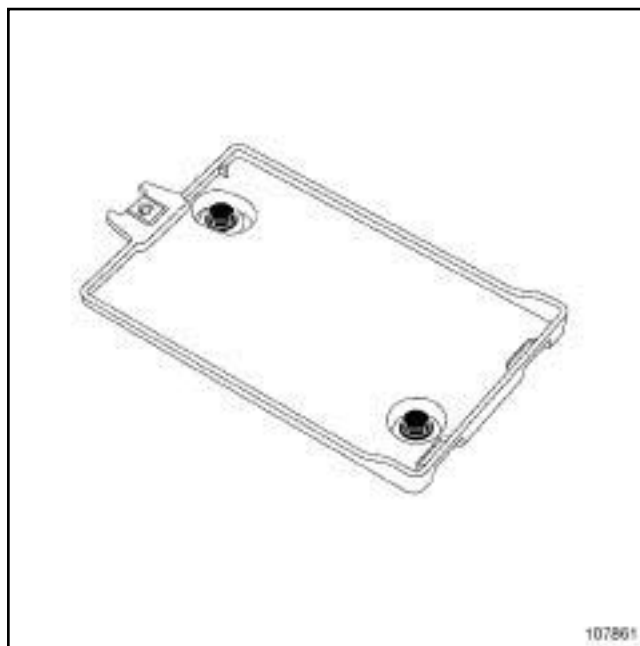
If replacing the UCH, it is essential to display the configurations using **Diagnostic tool**.

- Switch off the ignition.
- Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-2**).

### II - OPERATION FOR REMOVAL OF PART CONCERNED



- Disconnect the connectors (1).
- Remove:
  - the UCH bolt (2),
  - the UCH.



107861

Note:

The UCH is secured onto its mounting.

## REFITTING

### I - REFITTING OPERATION FOR PART CONCERNED

- Refit:
  - the UCH,
  - the UCH bolt.
- Connect the connectors.

### II - FINAL OPERATION.

- Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-2**).
- If the UCH has to be replaced, carry out the necessary operations (see **Fault finding - Replacement of components**) (87B, Passenger compartment connection unit).

## Electric window: List and location of components

ELECTRIC FRONT WINDOW or FRONT ONE-TOUCH ELECTRIC WINDOW – ELECTRIC FRONT WINDOW or FRONT ONE-TOUCH ELECTRIC WINDOW, and ELECTRIC REAR WINDOW

### I - LIST OF COMPONENTS

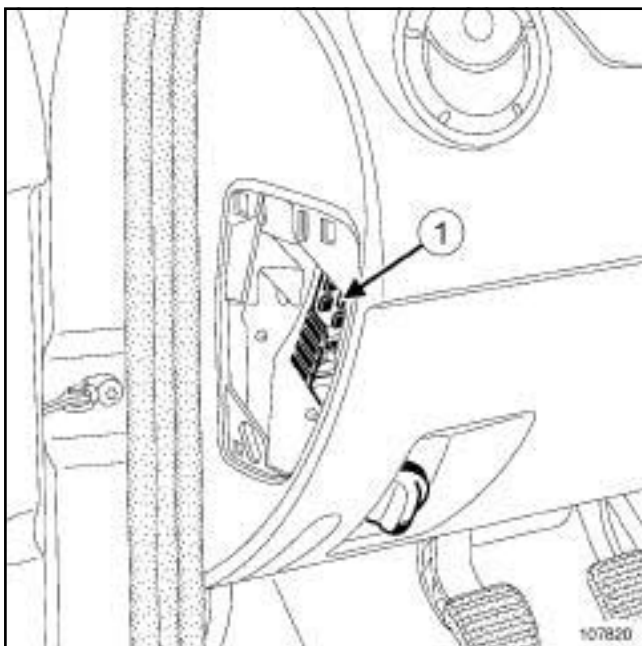
No.	Description
(1)	Passenger compartment fuse box
(2)	Front window winder switches

### ELECTRIC REAR WINDOW

No.	Description
(3)	Rear electric window switches
(4)	Child lock switch

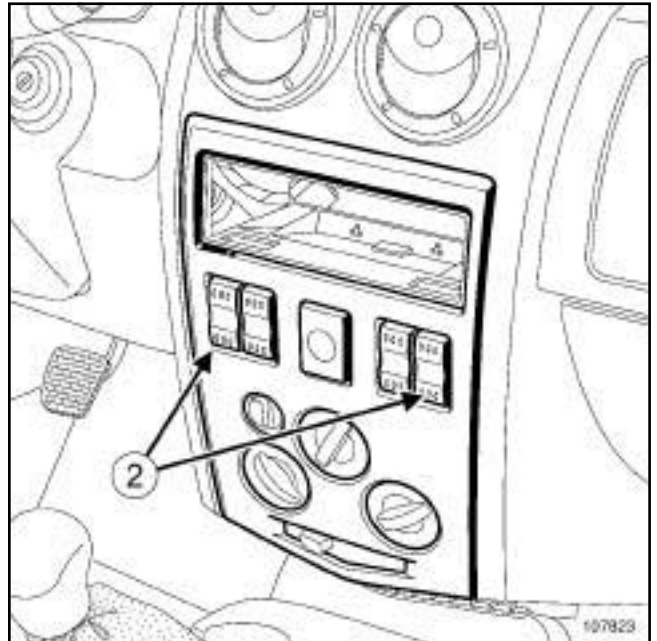
### II - LOCATION OF COMPONENTS

#### 1 - PASSENGER COMPARTMENT FUSE BOX



Passenger compartment fuse box (1)

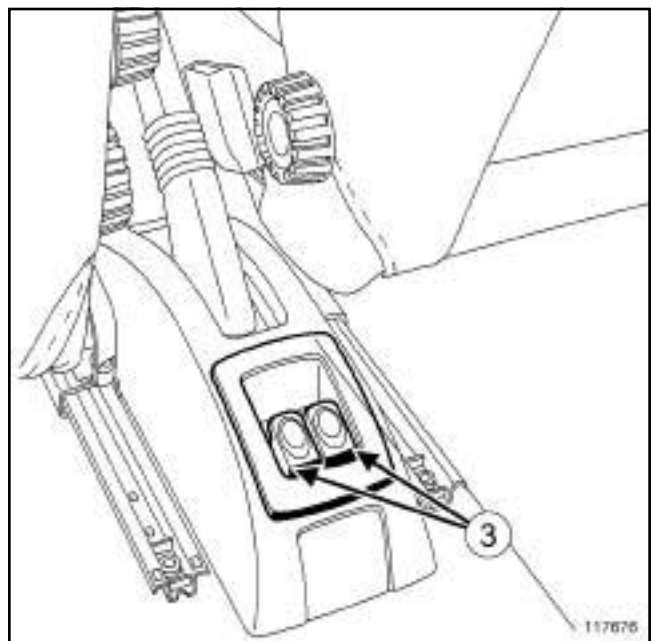
#### 2 - FRONT WINDOW WINDER SWITCHES



Front window winder switches (2)

### ELECTRIC REAR WINDOW

#### 3 - REAR WINDOW WINDER SWITCHES



Rear electric window switches (3)

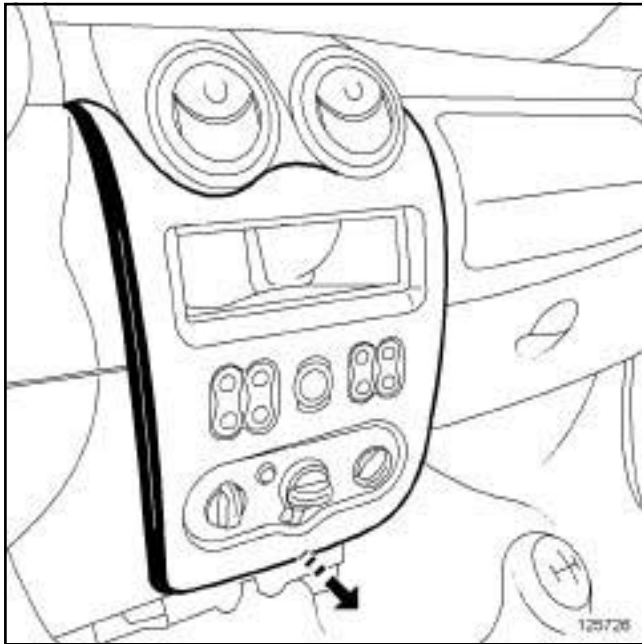
## Front electric window switch: Removal - Refitting

ELECTRIC FRONT WINDOW or FRONT ONE-TOUCH ELECTRIC WINDOW

## REMOVAL

## I - REMOVAL PREPARATION OPERATION

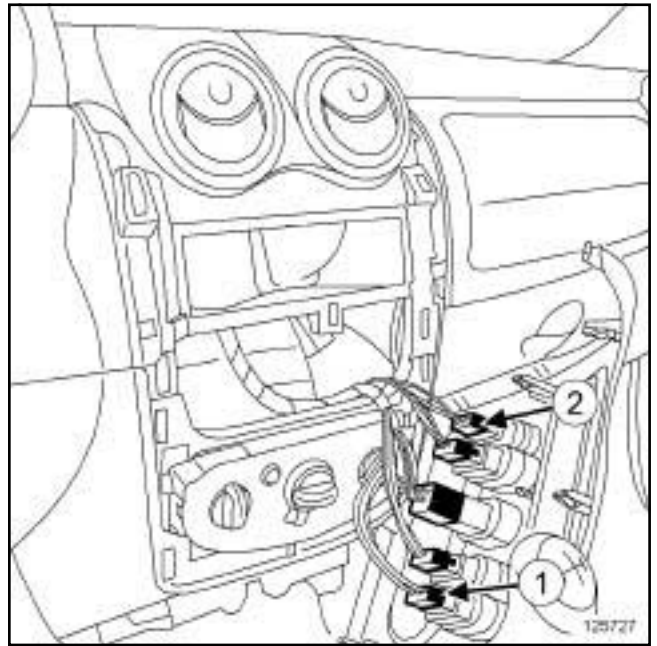
- Remove the radio (see **86A, Radio, Radio: Removal - Refitting**, page **86A-3**).



125726

- Unclip the central trim assembly, starting at the bottom.

## II - OPERATION FOR REMOVAL OF PART CONCERNED



125727

- Disconnect the front left window winder switch connector (1) or the front right window winder switch connector (2).
- Unclip the front window winder switch by pressing the clips.

## REFITTING

## I - REFITTING OPERATION FOR PART CONCERNED

- Clip on the front window winder switch.
- Connect the connector.

## II - FINAL OPERATION

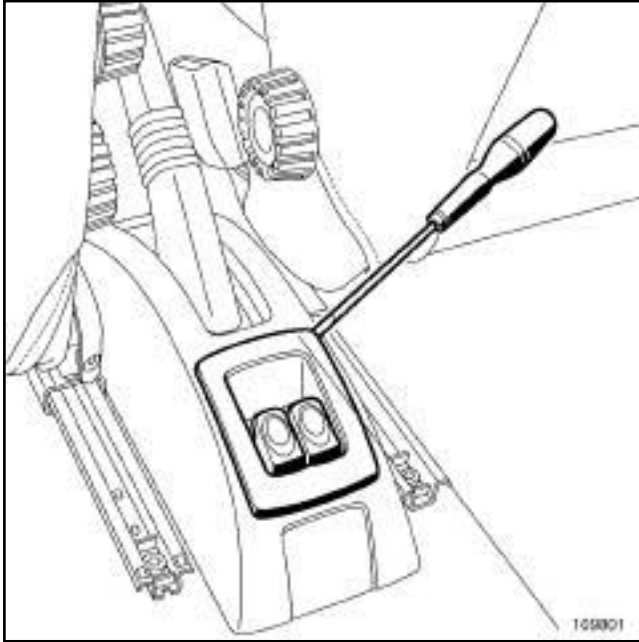
- Clip on the central trim assembly, starting at the top.
- Refit the radio (see **86A, Radio, Radio: Removal - Refitting**, page **86A-3**).

## Rear electric window switch: Removal - Refitting

## ELECTRIC REAR WINDOW

## REMOVAL

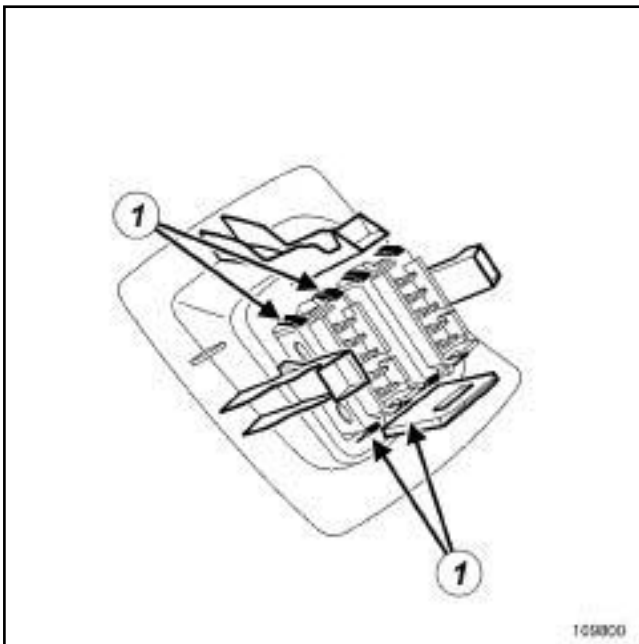
## I - REMOVAL PREPARATION OPERATION



109801

- Unclip the rear window winder switch plate.

## II - OPERATION FOR REMOVAL OF PART CONCERNED



109800

- Disconnect the rear window winder switch connector.
- Unclip the rear window winder switch by pressing the clips (1) .

## REFITTING

## I - REFITTING OPERATION FOR PART CONCERNED

- Clip on the rear window winder switch.
- Reconnect the rear window winder switch connector.

## II - FINAL OPERATION.

- Clip on the rear window winder switch plate.

# ENGINE COMPARTMENT CONNECTION UNIT

Engine compartment connection unit: List and location of components

# 87G

## I - LIST OF COMPONENTS

No.	Description
(1)	New engine compartment connection unit
(2)	Old engine compartment connection unit

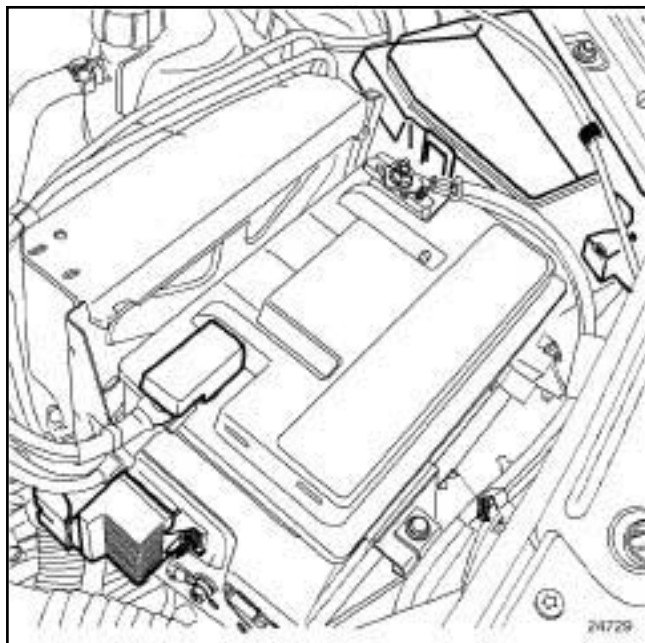
## II - LOCATION OF COMPONENTS

### 1 - NEW ENGINE COMPARTMENT FUSE AND RELAY BOX

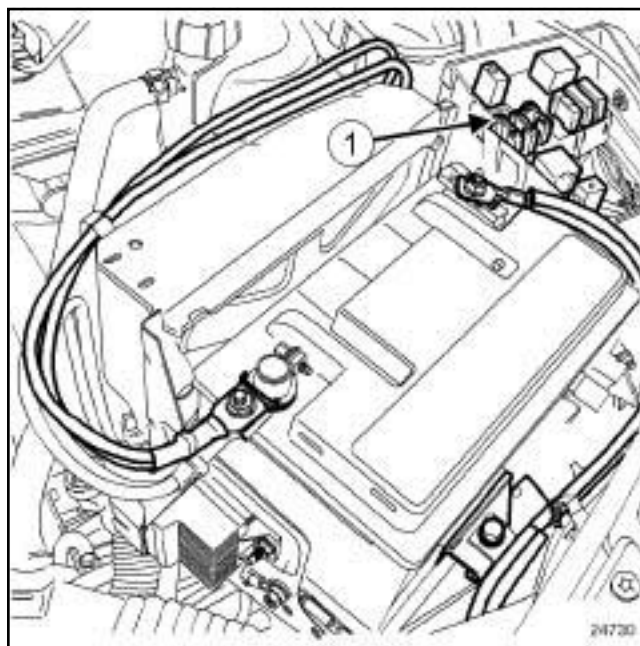
Vehicles concerned:

B90 or F90 or K90 or U90 - L90, with a sales release date after 17/05/2005

H79

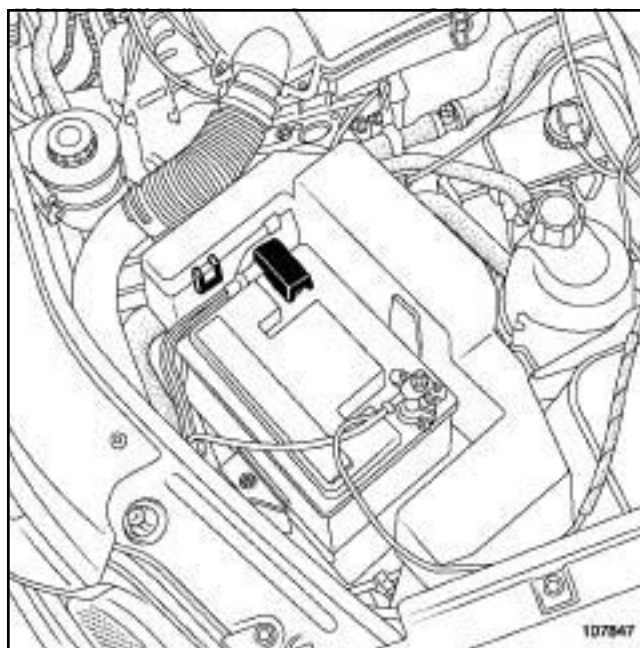


Unclip the cover to access the engine compartment connection unit.



Engine compartment connection unit (1)

### 2 - OLD ENGINE COMPARTMENT FUSE AND RELAY BOX

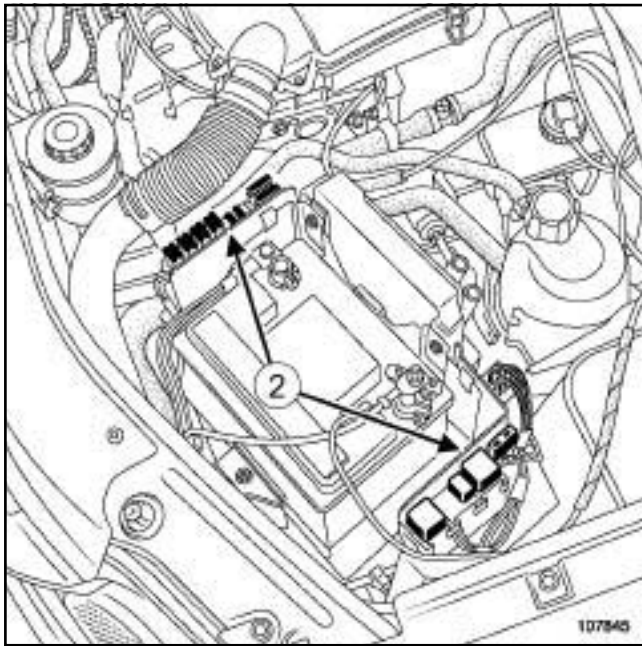


Unclip the cover to access the engine compartment connection unit.

# ENGINE COMPARTMENT CONNECTION UNIT

Engine compartment connection unit: List and location of components

**87G**



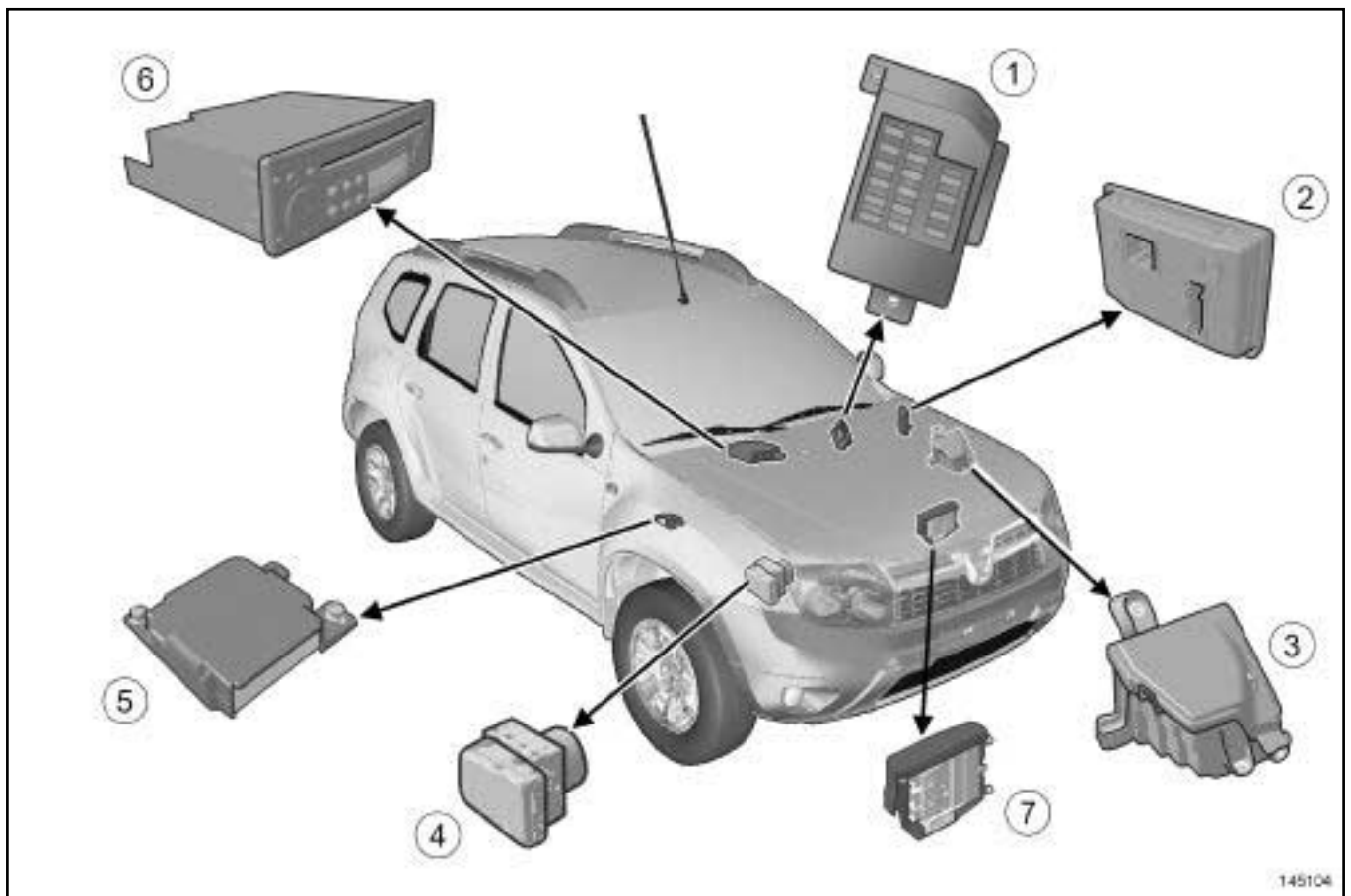
107845

Engine compartment connection unit (2)



## Computers: List and location of components

No.	Description	Procedure
1	Passenger compartment fuse box	
2	UCH	(see <b>87B, Passenger compartment connection unit, UCH: Removal - Refitting</b> , page <b>87B-1</b> ) (13B, Diesel injection)
3	Engine compartment fuse and relay box	
4	ABS-ESP computer	
5	Airbag computer	(see <b>88C, Air bag and Pretensioners, Airbag computer: Removal - Refitting</b> , page <b>88C-4</b> )
6	Radio	(see <b>86A, Radio, Radio: Removal - Refitting</b> , page <b>86A-3</b> )
7	Injection computer	(see <b>Diesel injection computer: Removal - Refitting</b> )



145104

145104

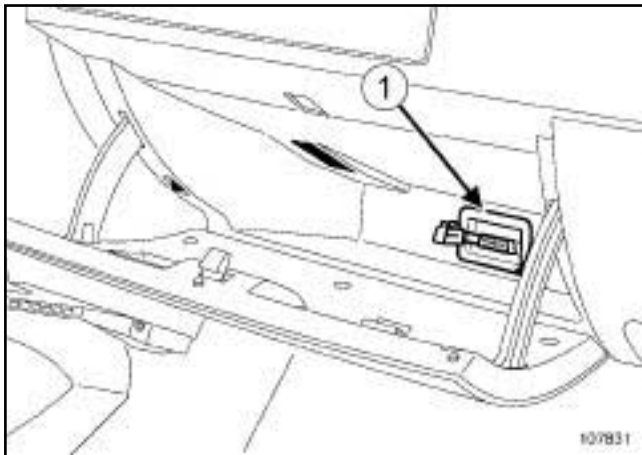
## Diagnostic socket: List and location of components

### I - LIST OF COMPONENTS

Mark	Description
(1)	Diagnostic socket

### II - LOCATION OF COMPONENTS

#### DIAGNOSTIC SOCKET



107831

The diagnostic socket (1) is located in the glovebox.

## Wiring: Precautions for the repair

### I - SAFETY

#### 1 - Potentially dangerous components

Do not leave any unused +12V connectors exposed to the air without any protection (see **Connector: Sealing and locking**) (Technical Note 6015A, 88A, Wiring).

Check that there is no contact between the wiring and the fuel and brake pipes.

Avoid mounting the wiring in areas with a temperature above 100°C.

#### 2 - Advice to be followed before any operation

Before carrying out any work on the wiring, disconnect the battery.

#### WARNING

To prevent damaging the connectors, consult the disconnection procedure (see **Connector: Disconnection and reconnection**) (Technical Note 6015A, 88A, Wiring).

#### WARNING

To prevent any risk of noise, premature wear, short circuits, etc. after the refitting operation, mark the wiring routing and how to connect the connectors.

#### 3 - Instructions to be followed during the operation

#### WARNING

To prevent any damage during the removal operation, check that the wiring is free from its mountings (retaining clip, plastic clip, adhesive tape, connector, etc.).

To prevent the wiring from being damaged, check that the surrounding area is not mechanically harmful (e.g.: door windows, sharp corners, burrs, studs, etc.).

The wiring should be **at least 30 mm** away from any moving components (belt, pulley, steering column, etc.).

Depending on the surrounding area, check that the unused connectors respect the necessary sealing constraints (see **Connector: Sealing and locking**) (Technical Note 6015A, 88A, Wiring).

All of the connections (connectors) used in the engine compartment are sealed; do not remove the seal from around the connectors.

### II - GENERAL RECOMMENDATIONS

Do not connect an earth to a stud with insulating protection (paint, etc.).

Do not use more than two earth terminals on the same point.

Do not use power earths on the same point as electronic earths.

To prevent water flowing into the connectors, make a low point just on the wiring routing (just before the connector).

For connections between fixed and mobile components, secure the wiring on the fixed part.

Overlapping of the battery feed wires (positive and negative) causes disruption; they must be secured separately.

Wiring mountings:

- use plastic clips, ensuring that the colour coding is respected,
- do not use steel clips that are not protected with rubber,
- keep the clips integrated into the wiring during a replacement operation,
- do not leave steering wheel wires without protection.

Check that:

- the shunts are correctly secured,
- the connectors are correctly housed and locked.

Wiring routing:

- when it is visible it must be aesthetically pleasing, and resemble the routing marked during removal,
- prohibit wiring routing in grooves and overlaps (risk of wear through friction),
- prohibit mounting several wires on the same clip,
- do not lock the connectors or wiring in areas that are sensitive to drilling (number plate etc.).

## Front bumper wiring: Removal - Refitting

### IMPORTANT

To avoid all risk of damage to the systems, apply the safety and cleanliness instructions and operation recommendations before carrying out any repair (see **88A, Wiring harness, Wiring: Precautions for the repair**, page **88A-3**).

### WARNING

To avoid damaging the connectors, consult the disconnection procedures (see **Connector: Disconnection and reconnection**) (Technical Note 6015A, 88A, Wiring).

## REMOVAL

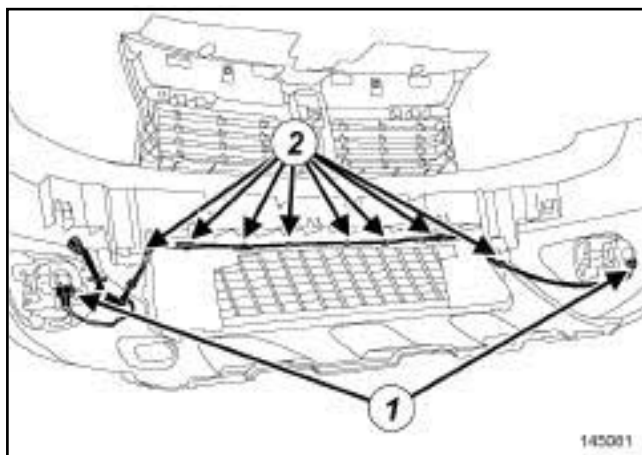
### I - REMOVAL PREPARATION OPERATION

- Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (02A, Lifting equipment).
- Switch off the ignition.
- Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-2**).
- Remove the front bumper (see **Front bumper assembly: Exploded view**) (55A, Exterior protection).

### II - REMOVAL OPERATION

### WARNING

To prevent any risk of noise, premature wear, short circuits, etc. after the refitting operation, mark the wiring routing and how to connect the connectors.



145081  
145081

- Disconnect the front fog light connectors (1).

- Unclip the front bumper wiring at (2).

### WARNING

To prevent any damage during the removal operation, check that the wiring is free from its mountings (retaining clip, plastic clip, adhesive tape, connector, etc.).

- Remove the front bumper wiring.

## REFITTING

### I - REFITTING PREPARATION OPERATION

- If replacing with more complete wiring, immobilise the unused connectors (see **Connector: Sealing and locking**) (Technical Note 6015A, 88A, Wiring).

### II - REFITTING OPERATION

- Proceed in the reverse order to removal.
- Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-2**).

### III - CHECKING AFTER REPAIR

- Switch on the ignition.
- Check the operation of all front bumper electrical components.

# WIRING HARNESS

## Engine wiring: Removal - Refitting

# 88A

K4M

### Equipment required

indelible pencil

Diagnostic tool

### Tightening torques

manual gearbox earth cable bolt	<b>24 N.m</b>
---------------------------------	---------------

earth cable nuts	<b>8 N.m</b>
------------------	--------------

### IMPORTANT

To avoid all risk of damage to the systems, apply the safety and cleanliness instructions and operation recommendations before carrying out any repair:

- (See **Wiring: Precautions for repair**) (88A, Wiring),
- (see **Vehicle: Precautions for repair**) (01D, Mechanical introduction).

### IMPORTANT

To prevent any accidental triggering during an operation on or near to a passive safety component, apply the procedure for deactivating the safety systems (see **88C, Air bag and Pretensioners, Airbag and pretensioners: Precautions for the repair**, page **88C-3**) (88C, Airbag and pretensioners)

### IMPORTANT

Never handle the pyrotechnic systems (pretensioners or airbags) near to a source of heat or naked flame - they may be triggered.

### WARNING

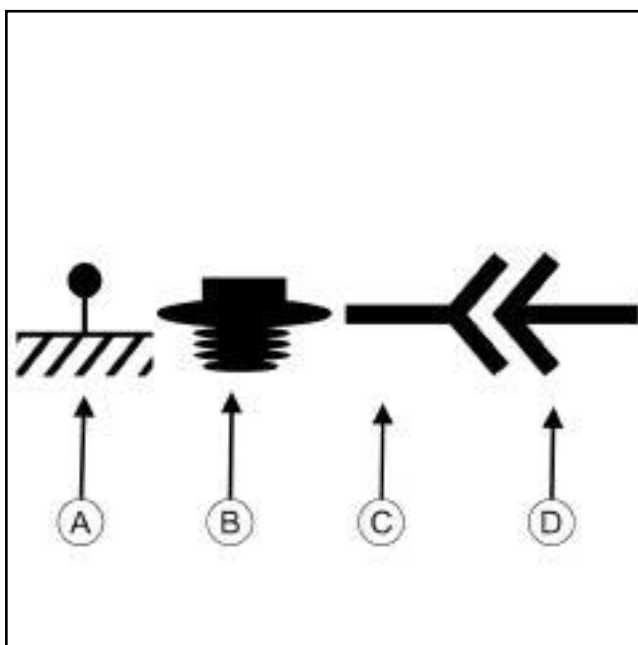
To prevent damage to the wiring harness when refitting, observe the original routing.

### WARNING

To prevent any damage to the connectors, consult the disconnection procedures (see **Connectors: Disconnection and reconnection**) (Technical Note 6015A, 88A, Wiring).

### Note:

For information on instrument connectors (see **Visu-Schéma**).



144441

- (A) Symbol for an earth
- (B) Symbol for a mounting (clip, clamp, etc.)
- (C) Symbol for a female connector (connection of 2 wires)
- (D) Symbol for a male connector (connection of 2 wires)

## REMOVAL

### I - REMOVAL PREPARATION OPERATION

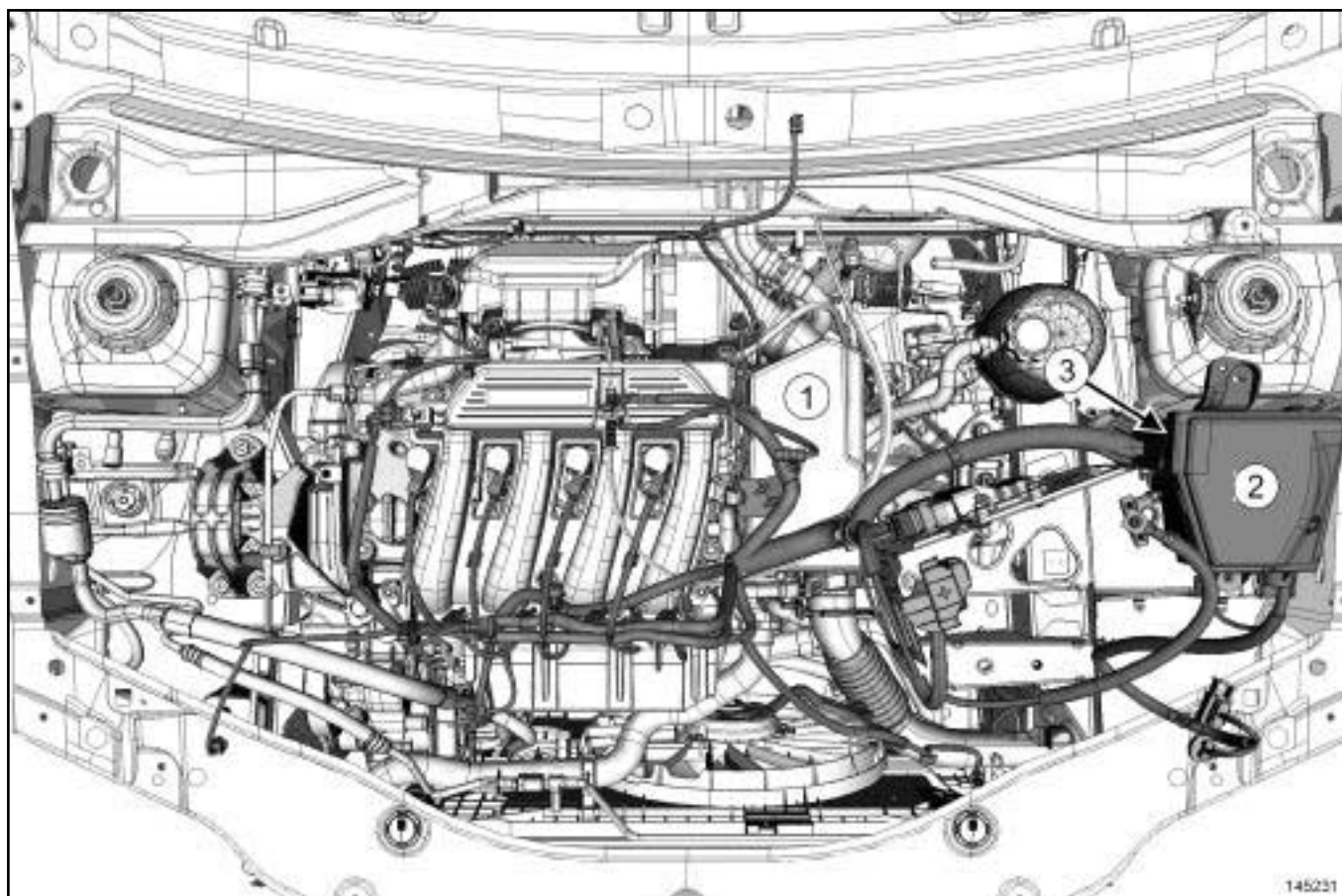
- Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (02A, Lifting equipment).
- Switch off the ignition.
- Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-2**) (80A, Battery).

# WIRING HARNESS

## Engine wiring: Removal - Refitting

# 88A

K4M



145231

145231

### Remove:

- the air resonator (1) (see **Air resonator: Removal - Refitting**) (12A, Fuel mixture),
- the cover to access the engine compartment fuse and relay box (2) ,
- the closure component (3) of the engine compartment fuse and relay box,
- the engine undertray bolts,
- the engine undertray.

#### Note:

Mark the position of the fuses and relays before removal.

- Unclip the fuse holders and the engine harness relays from their mountings.

### **If replacing the engine wiring**

- Remove the fuses.

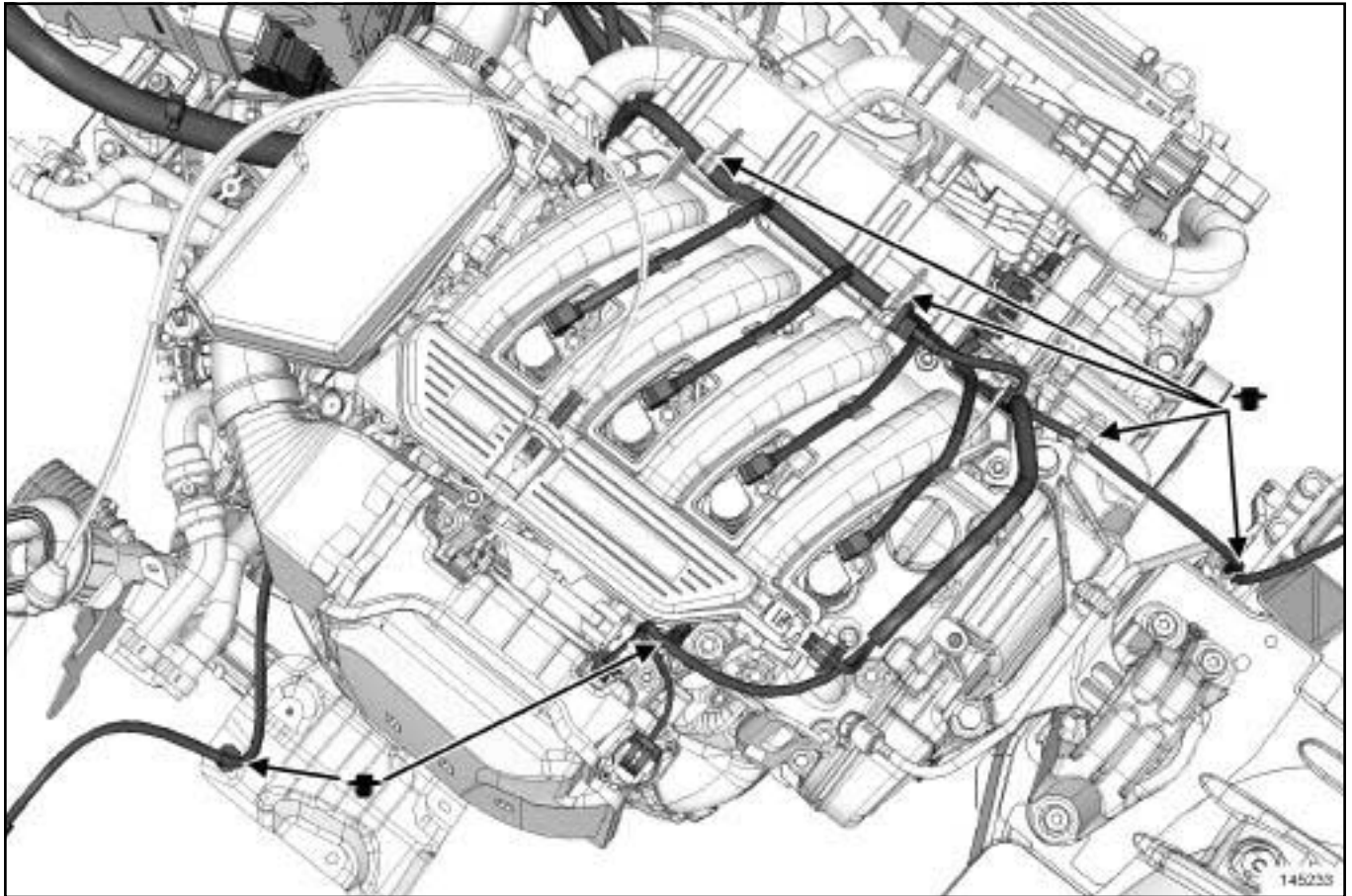
# WIRING HARNESS

## Engine wiring: Removal - Refitting

**88A**

K4M

### II - REMOVAL OPERATION



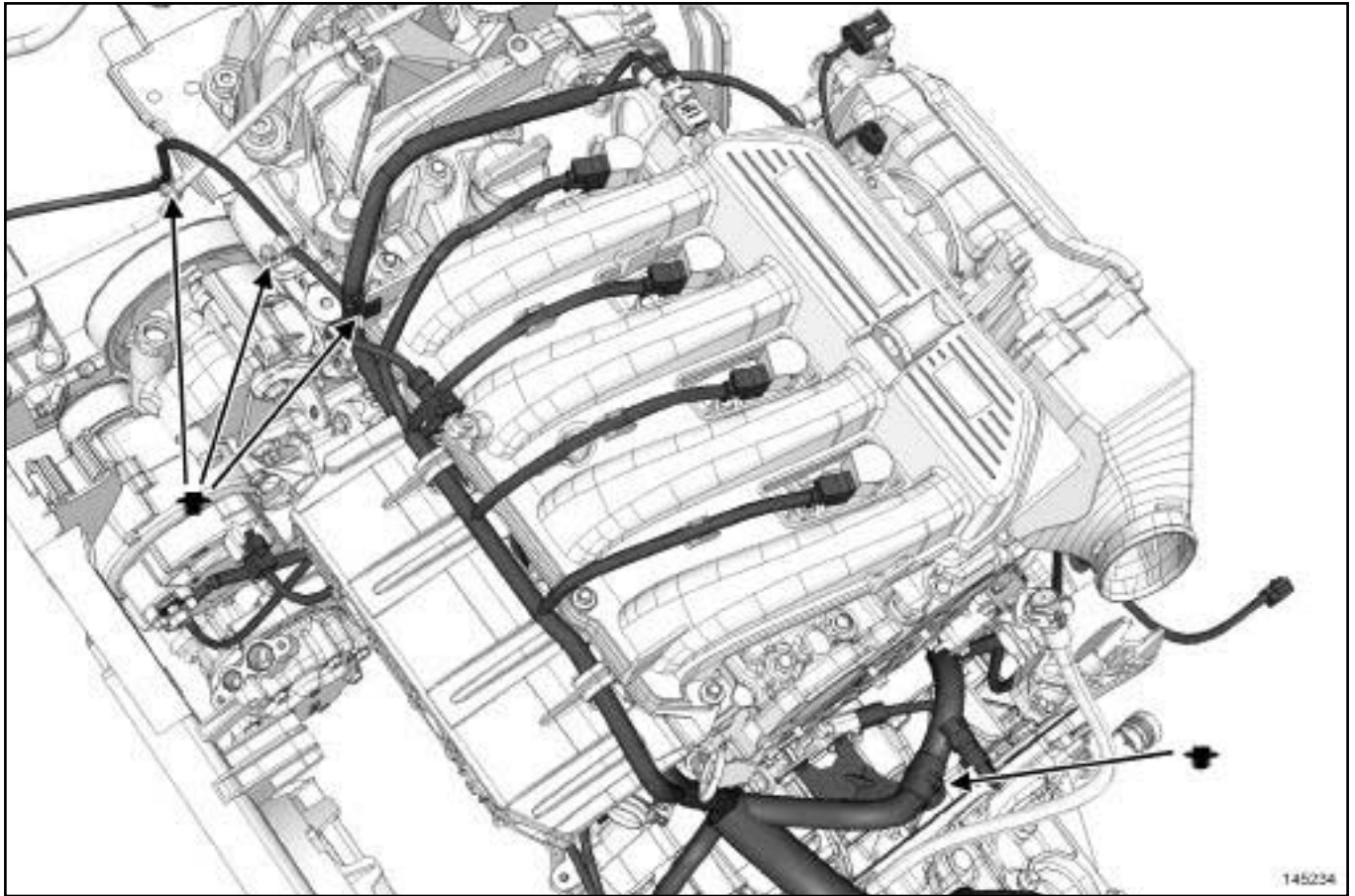
145233

# WIRING HARNESS

## Engine wiring: Removal - Refitting

**88A**

K4M



145234

145234

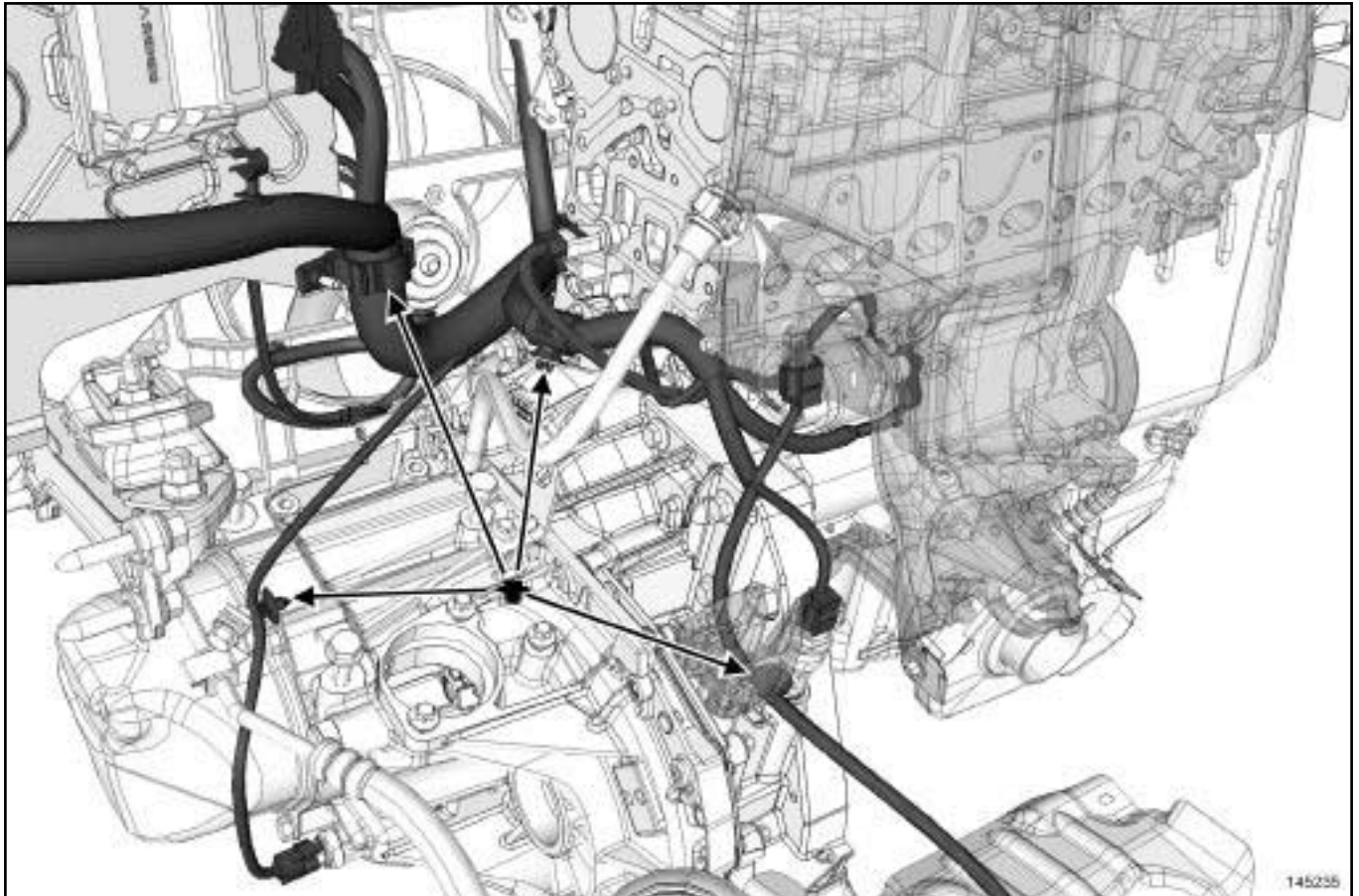


# WIRING HARNESS

## Engine wiring: Removal - Refitting

# 88A

K4M



145235

- Disconnect all the connectors.
- Unclip the engine wiring where indicated.

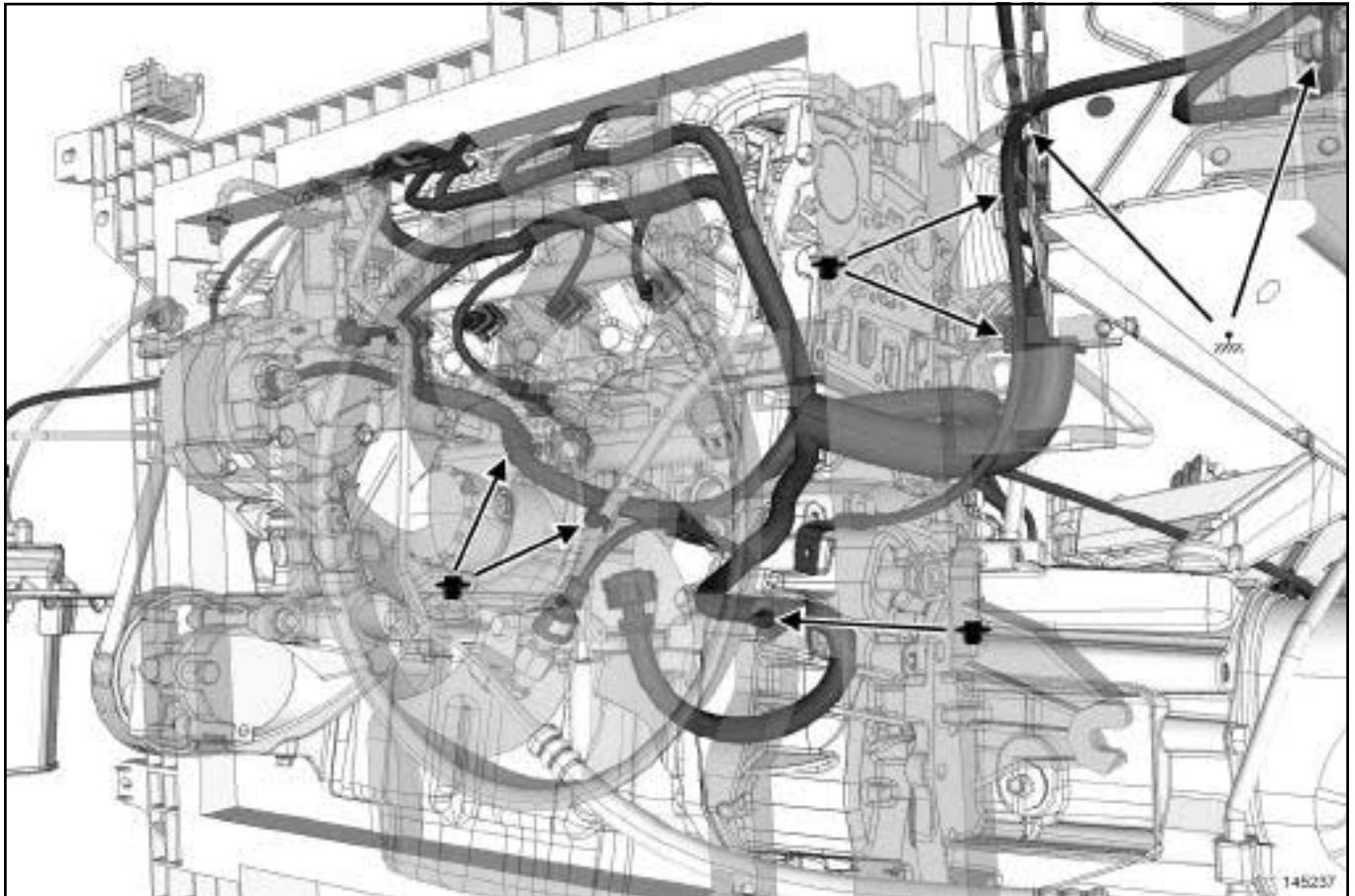
# WIRING HARNESS

## Engine wiring: Removal - Refitting

# 88A

K4M

STANDARD HEATING RECIRCULATION



145237

- Disconnect all the connectors.
- Unclip the engine wiring where indicated.

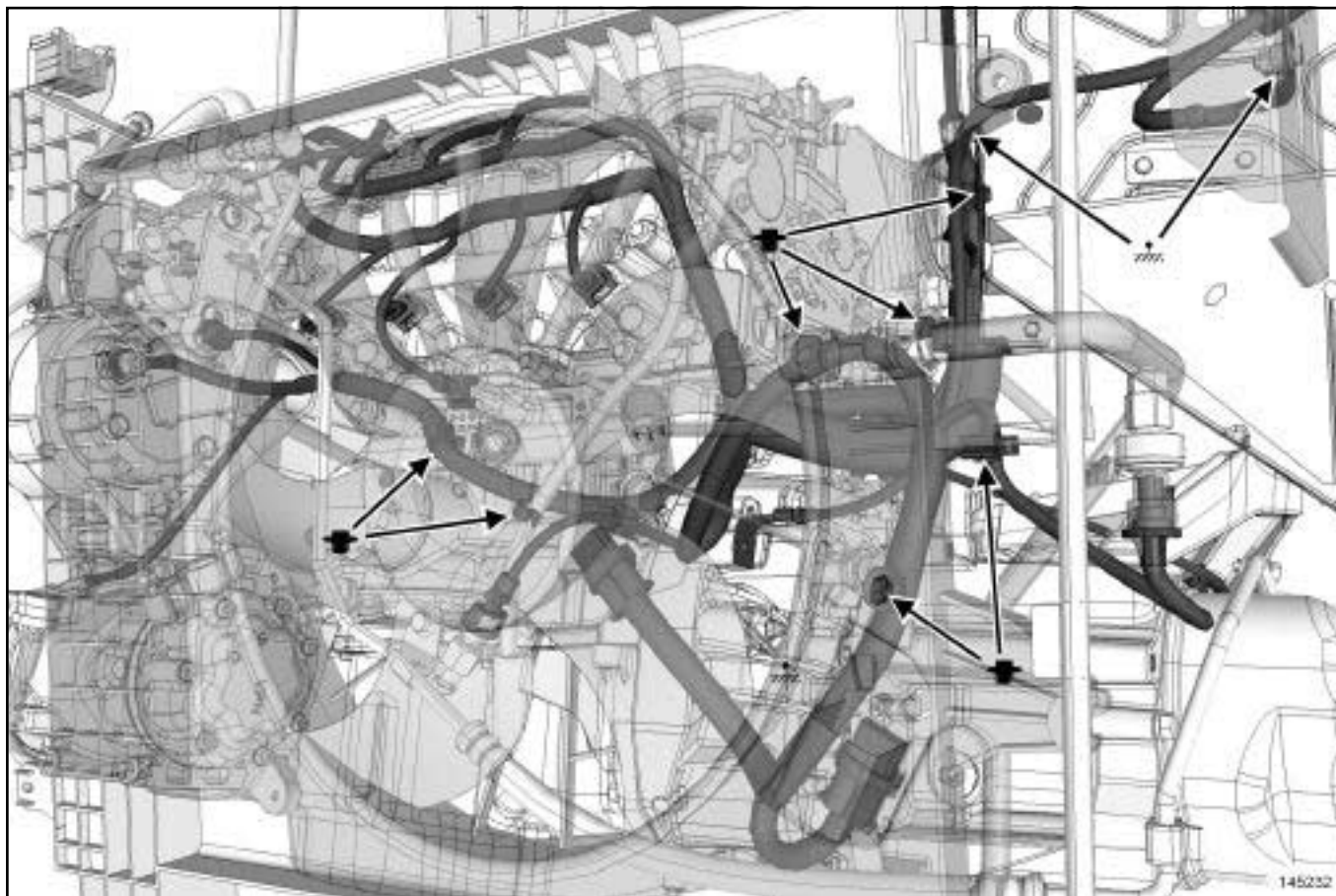
# WIRING HARNESS

## Engine wiring: Removal - Refitting

# 88A

K4M

AIR CONDITIONING



145232

- Disconnect all the connectors.
- Unclip the engine wiring where indicated.

Note:

Before removing the earth terminal, mark its position using a **indelible pencil** by drawing a line on the earth terminal and on the gearbox casing.

When reassembling, improper positioning of the earth terminal on the gearbox casing could result in damage to the earth terminal or earth wiring.

- Remove the earth terminals.

**WARNING**

To prevent any damage during the removal operation, check that the wiring is free from its mountings (retaining clip, plastic clip, adhesive tape, connector, etc.).

- Remove the engine wiring.

K4M

## REFITTING

### I - REFITTING PREPARATION OPERATION

#### If replacing the engine wiring

- Refit the fuses.
- If replacing with a complete wiring harness, lock the unused connectors (see **Connectors: Sealing and locking**) (Technical Note 6015A, 88A, Wiring).

### II - REFITTING OPERATION

- Proceed in the reverse order to removal.

**Note:**

Refit the earth terminal, aligning the indelible marks on the gearbox casing.

When reassembling, improper positioning of the earth terminal on the gearbox casing could result in damage to the earth terminal or earth wiring.

- Torque tighten:
  - the **manual gearbox earth cable bolt (24 N.m)**,
  - the **earth cable nuts (8 N.m)**.
- Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-2**) (80A, Battery).

### III - TEST OPERATION

- Switch on the ignition.
- Connect the **Diagnostic tool**.
- Check that there are no faults.

# WIRING HARNESS

## Engine wiring: Removal - Refitting

# 88A

K9K, and 796

### Equipment required

indelible pencil

Diagnostic tool

### Tightening torques

manual gearbox earth cable bolt	<b>24 N.m</b>
---------------------------------	---------------

earth cable nuts	<b>8 N.m</b>
------------------	--------------

### IMPORTANT

To avoid all risk of damage to the systems, apply the safety and cleanliness instructions and operation recommendations before carrying out any repair:

- (See **Wiring: Precautions for repair**) (88A, Wiring),
- (see **Vehicle: Precautions for repair**) (01D, Mechanical introduction).

### IMPORTANT

To prevent any accidental triggering during an operation on or near to a passive safety component, apply the procedure for deactivating the safety systems (see **88C, Air bag and Pretensioners, Airbag and pretensioners: Precautions for the repair**, page **88C-3**) (88C, Airbag and pretensioners)

### IMPORTANT

Never handle the pyrotechnic systems (pretensioners or airbags) near to a source of heat or naked flame - they may be triggered.

### WARNING

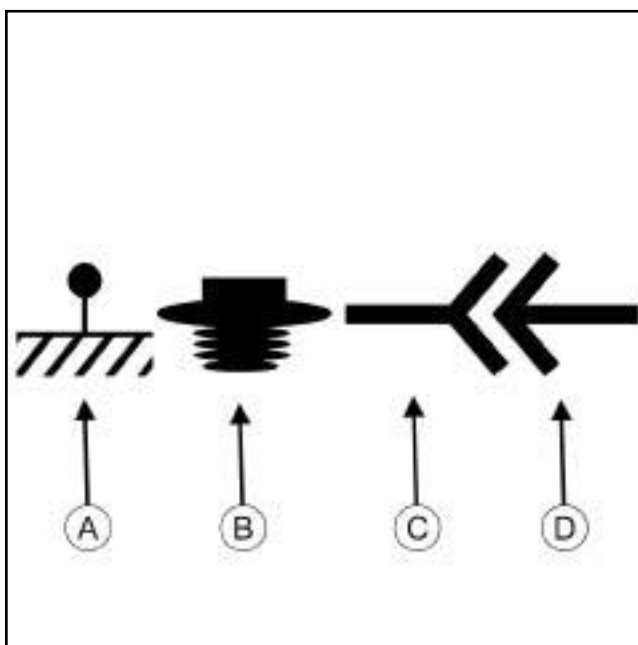
To prevent damage to the wiring harness when refitting, observe the original routing.

### WARNING

To prevent any damage to the connectors, consult the disconnection procedures (see **Connectors: Disconnection and reconnection**) (Technical Note 6015A, 88A, Wiring).

### Note:

For information on instrument connectors (see **Visu-Schéma**).



144441

- (A) Symbol for an earth
- (B) Symbol for a mounting (clip, clamp, etc.)
- (C) Symbol for a female connector (connection of 2 wires)
- (D) Symbol for a male connector (connection of 2 wires)

## REMOVAL

### I - REMOVAL PREPARATION OPERATION

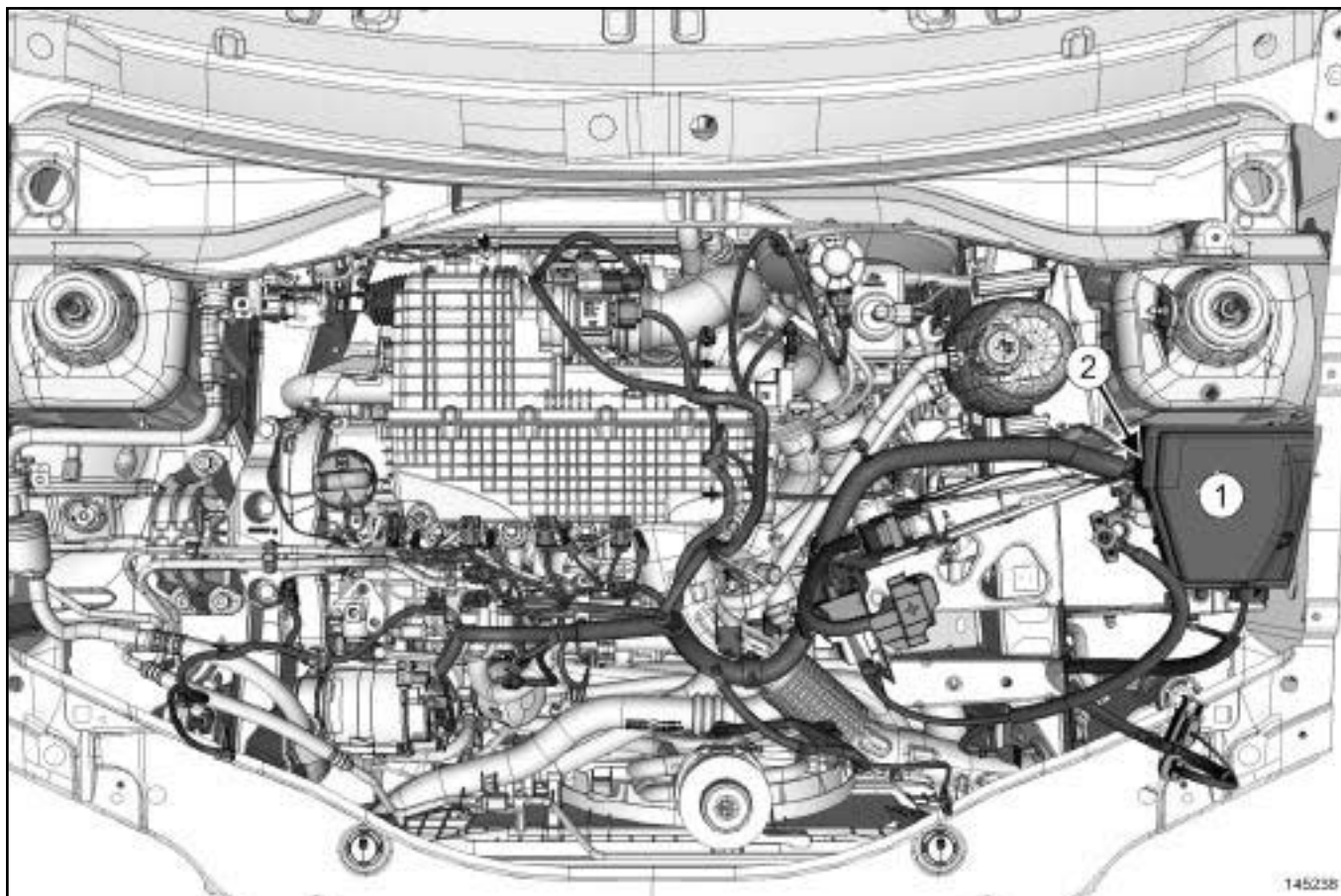
- Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (02A, Lifting equipment).
- Switch off the ignition.
- Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-2**) (80A, Battery).

# WIRING HARNESS

## Engine wiring: Removal - Refitting

# 88A

K9K, and 796



145238

145238

### Remove:

- the cover to access the engine compartment fuse and relay box (1) ,
- the closure component (2) of the engine compartment fuse and relay box,
- the front bumper (see **Front bumper assembly: Exploded view**) (55A, Exterior protection),
- the right-hand headlight (see **80B, Headlights, Headlight assembly: Exploded view**, page **80B-1**) (80B, Headlights),
- the engine cover,
- the engine undertray bolts,
- the engine undertray.

#### Note:

Mark the position of the fuses and relays before removal.

- ### Unclip the fuse holders and the engine harness relays from their mountings.

### If replacing the engine wiring

- ### Remove the fuses.

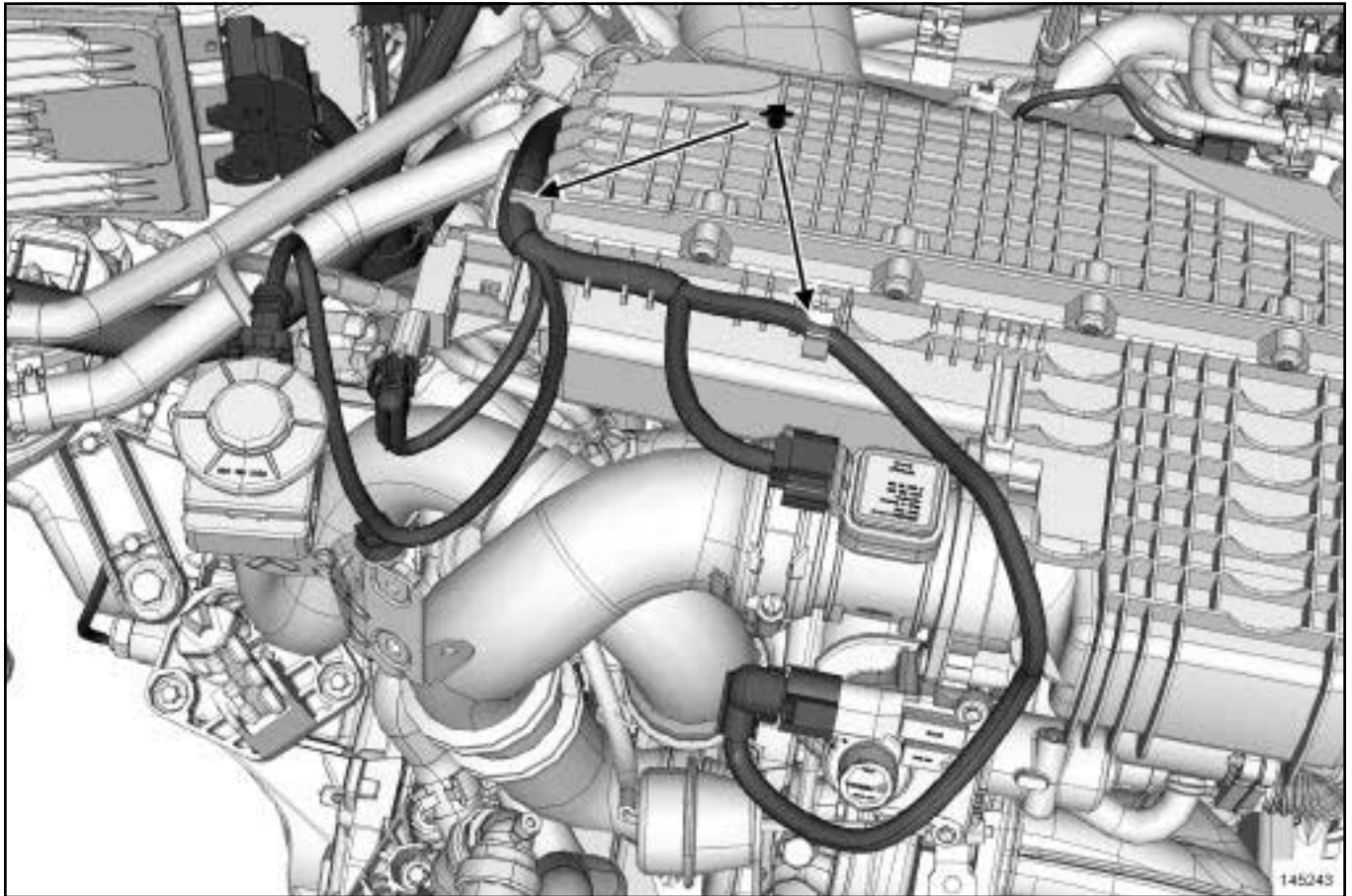
# WIRING HARNESS

## Engine wiring: Removal - Refitting

88A

K9K, and 796

### II - REMOVAL OPERATION



145243

- Disconnect all the connectors.
- Unclip the engine wiring where indicated.

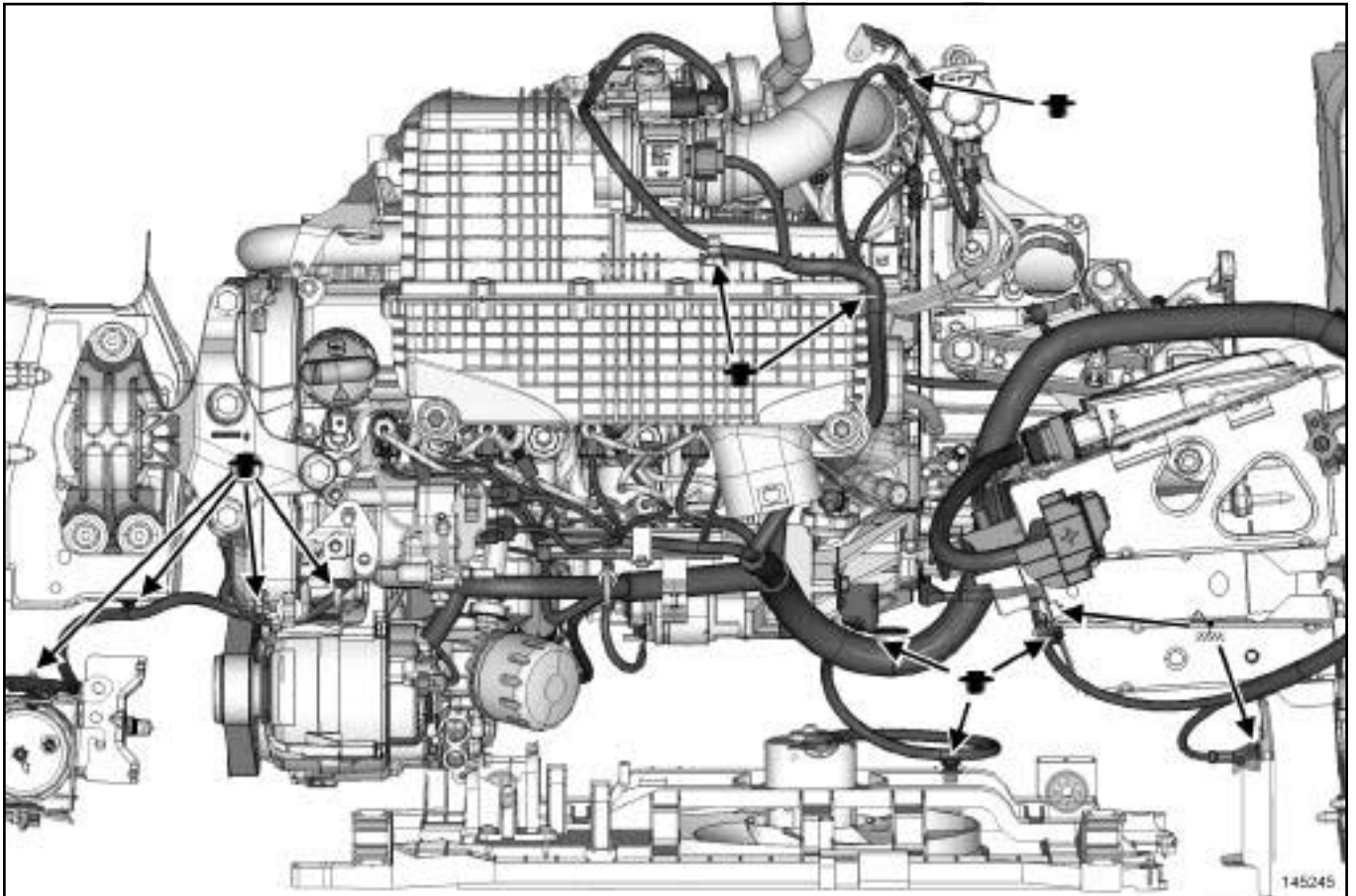
# WIRING HARNESS

## Engine wiring: Removal - Refitting

**88A**

K9K, and 796

STANDARD HEATING RECIRCULATION



145245

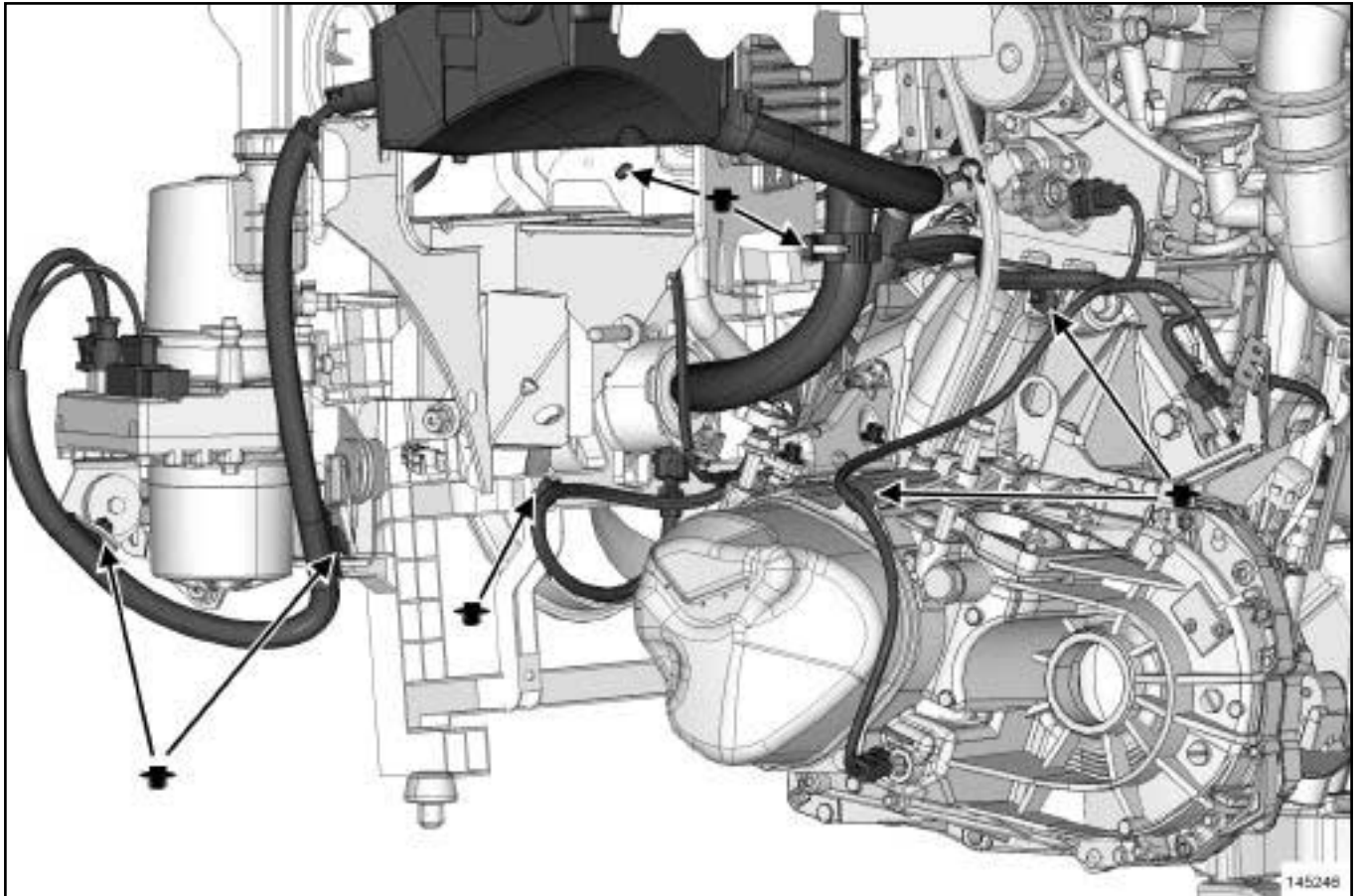


# WIRING HARNESS

## Engine wiring: Removal - Refitting

**88A**

K9K, and 796



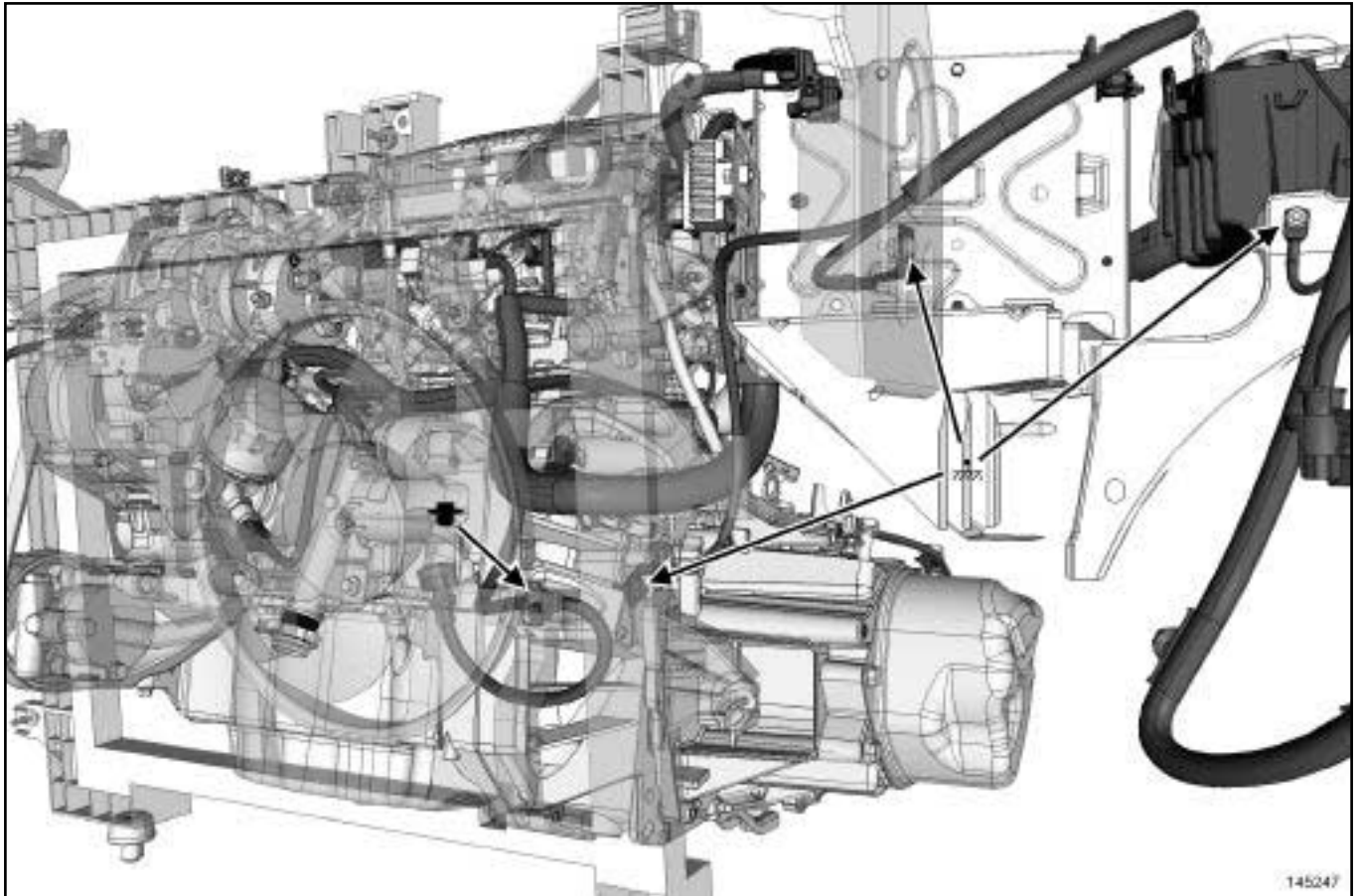
145246

# WIRING HARNESS

## Engine wiring: Removal - Refitting

**88A**

K9K, and 796



145247

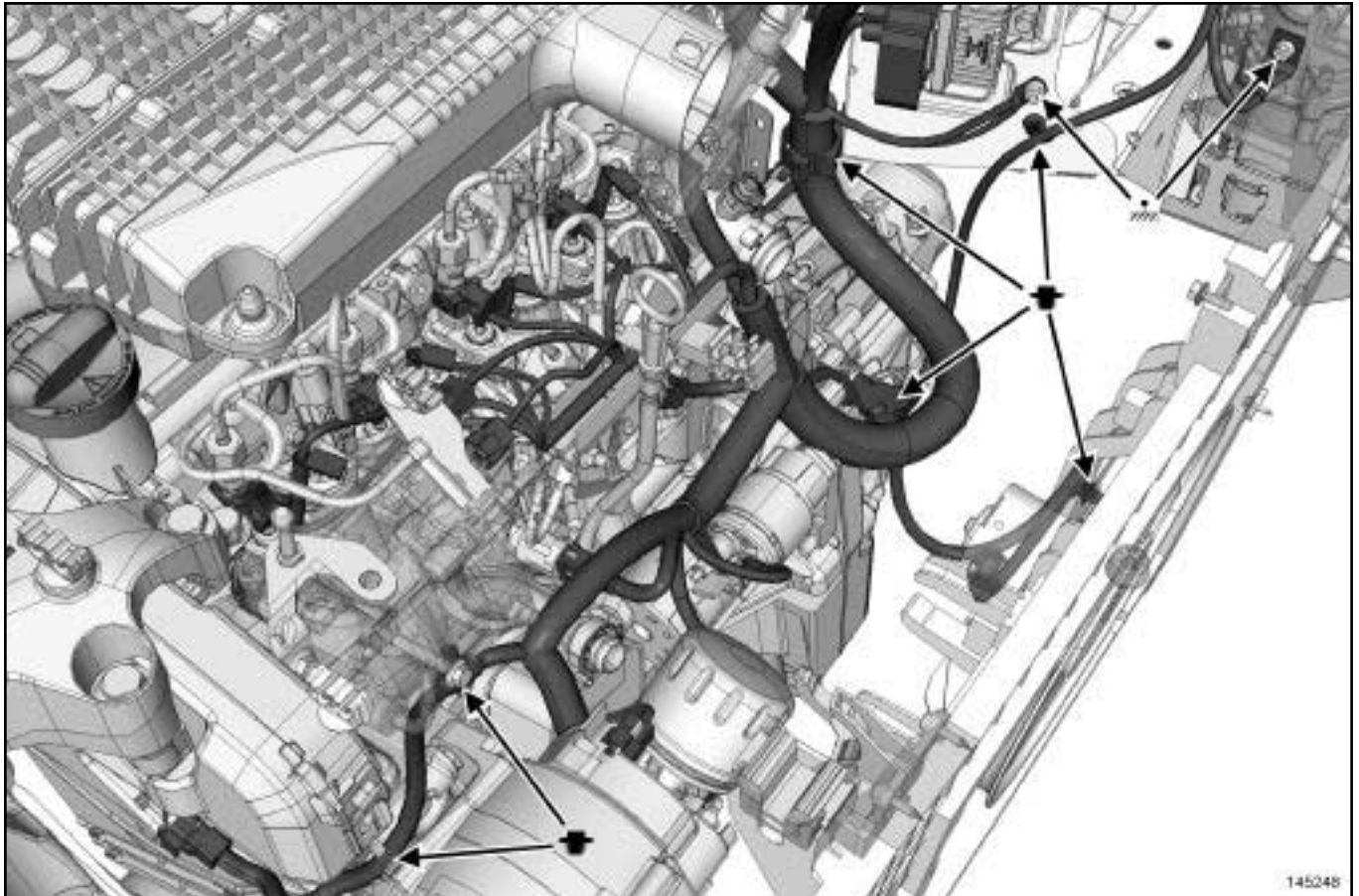
145247

# WIRING HARNESS

## Engine wiring: Removal - Refitting

# 88A

K9K, and 796



145248

145248

- Disconnect all the connectors.
- Unclip the engine wiring where indicated.

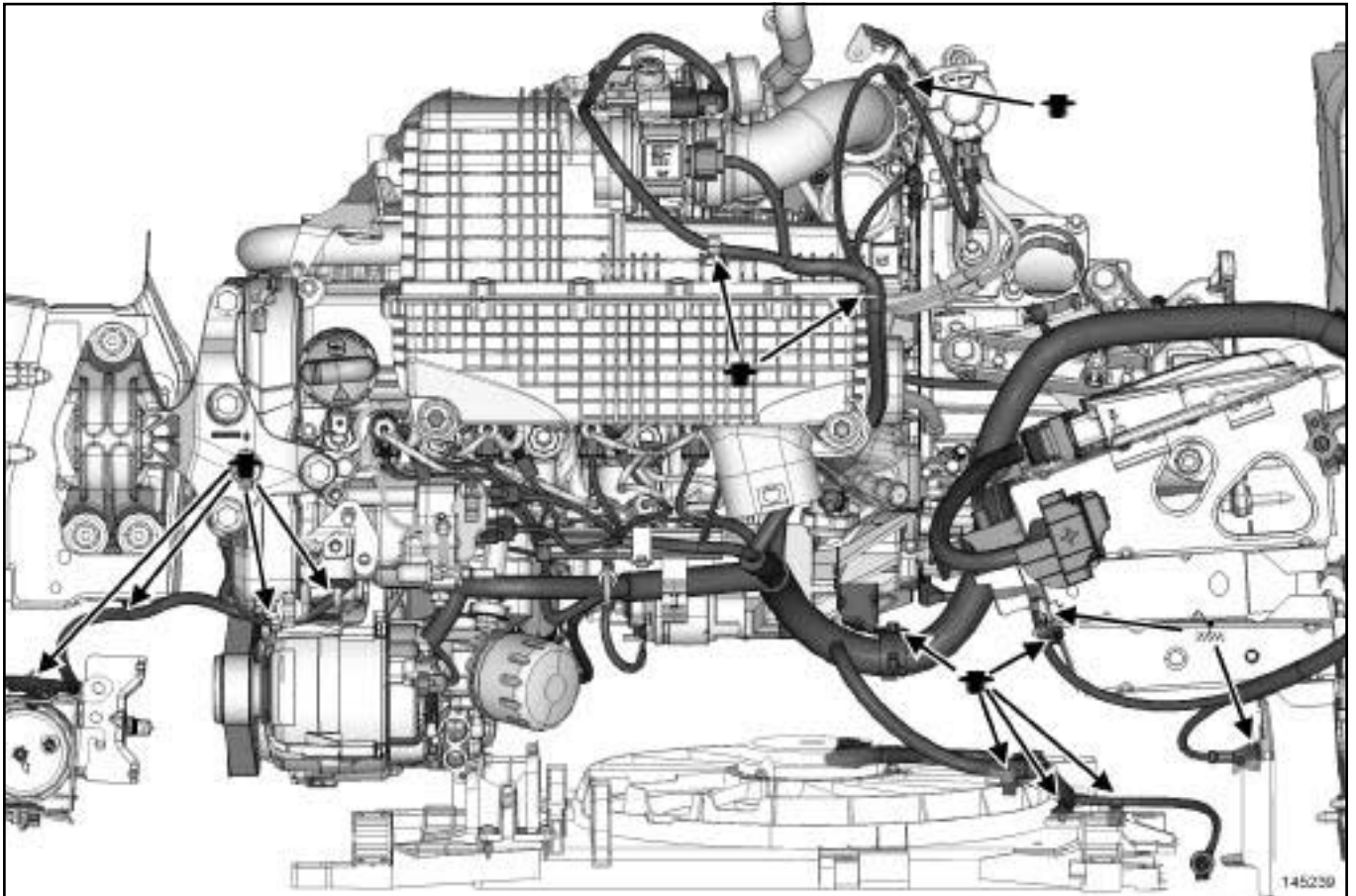
# WIRING HARNESS

## Engine wiring: Removal - Refitting

**88A**

K9K, and 796

AIR CONDITIONING



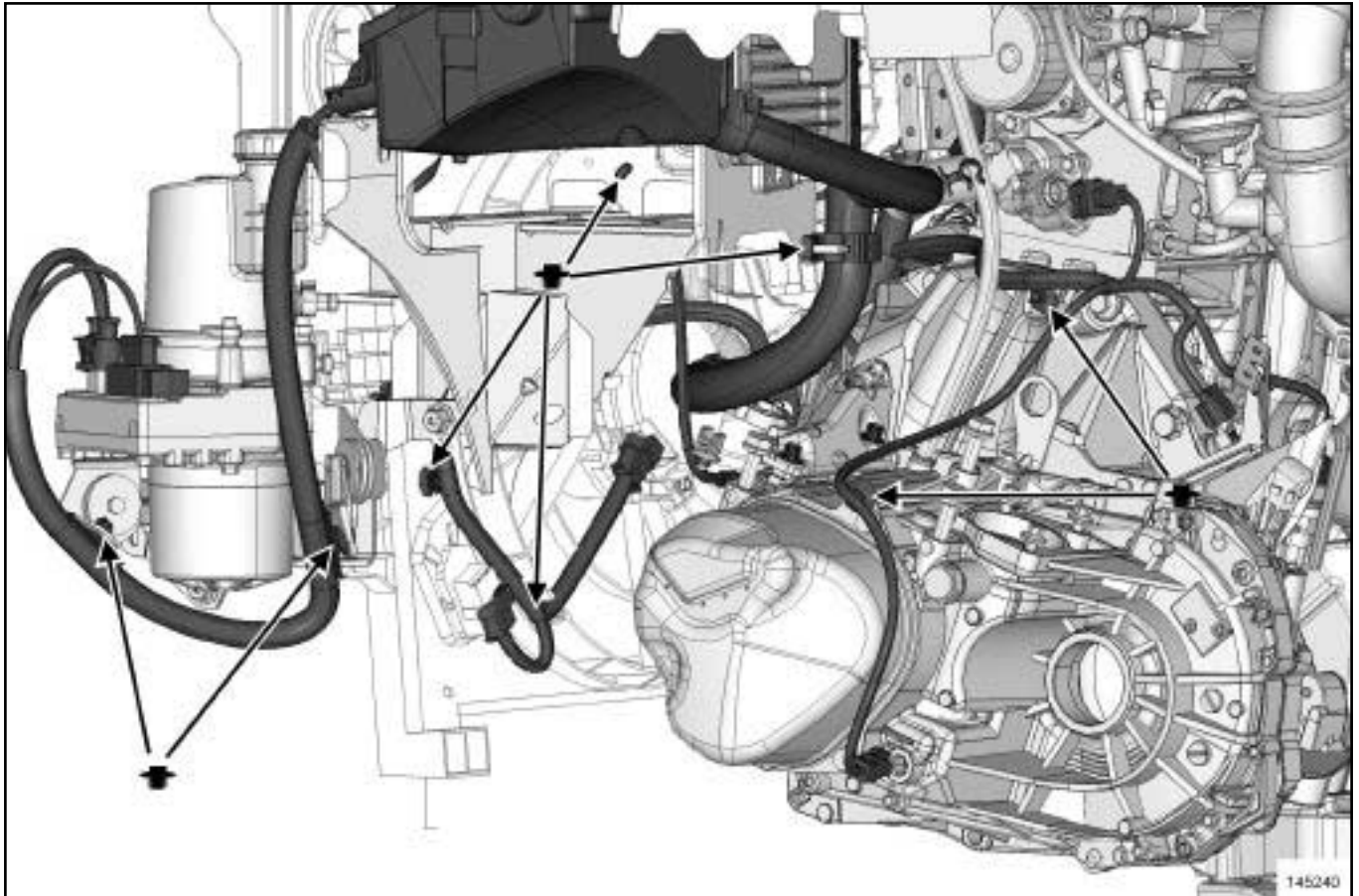
145239

# WIRING HARNESS

## Engine wiring: Removal - Refitting

**88A**

K9K, and 796



145240

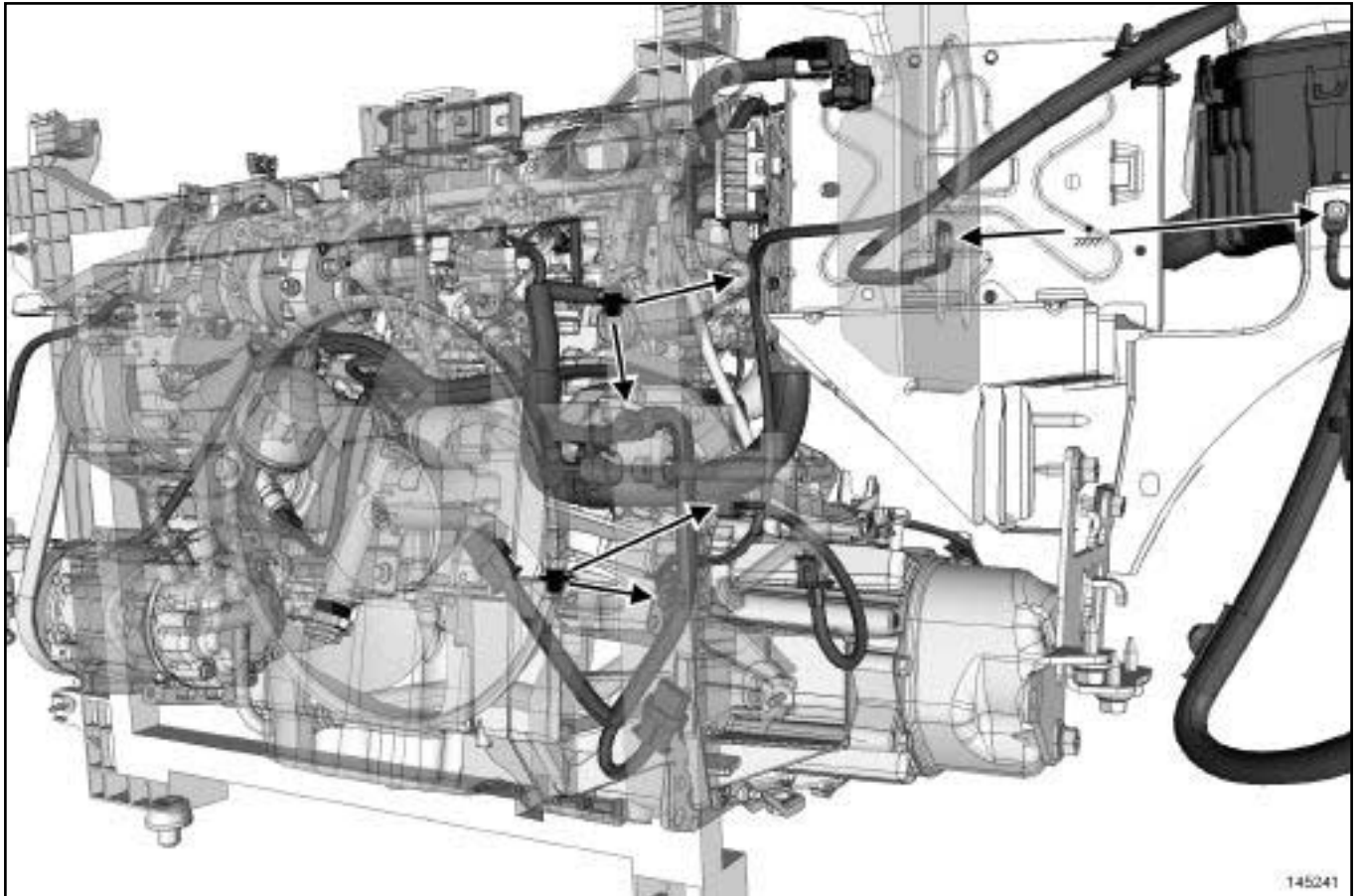
145240

# WIRING HARNESS

## Engine wiring: Removal - Refitting

**88A**

K9K, and 796



145241

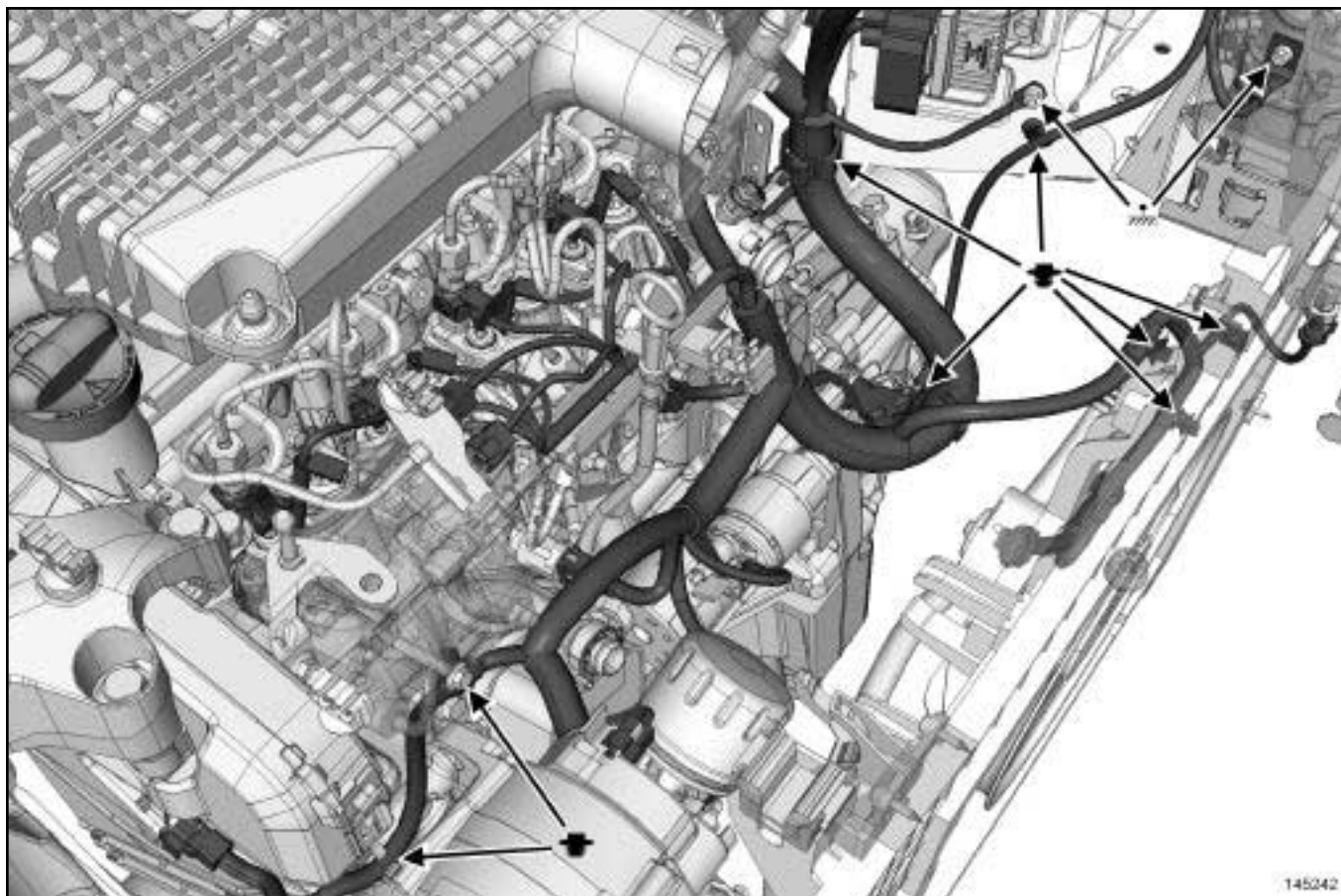
145241

# WIRING HARNESS

## Engine wiring: Removal - Refitting

# 88A

K9K, and 796



145242

145242

- Disconnect all the connectors.
- Unclip the engine wiring where indicated.

Note:

Before removing the earth terminal, mark its position using a **indelible pencil** by drawing a line on the earth terminal and on the gearbox casing.

When reassembling, improper positioning of the earth terminal on the gearbox casing could result in damage to the earth terminal or earth wiring.

- Remove the earth terminals.

### WARNING

To prevent any damage during the removal operation, check that the wiring is free from its mountings (retaining clip, plastic clip, adhesive tape, connector, etc.).

- Remove the engine wiring.

## REFITTING

### I - REFITTING PREPARATION OPERATION

#### If replacing the engine wiring

- Refit the fuses.
- If replacing with a complete wiring harness, lock the unused connectors (see **Connectors: Sealing and locking**) (Technical Note 6015A, 88A, Wiring).

### II - REFITTING OPERATION

- Proceed in the reverse order to removal.

Note:

Refit the earth terminal, aligning the indelible marks on the gearbox casing.

When reassembling, improper positioning of the earth terminal on the gearbox casing could result in damage to the earth terminal or earth wiring.

- Torque tighten:
  - the **manual gearbox earth cable bolt (24 N.m)**,

# WIRING HARNESS

## Engine wiring: Removal - Refitting

# 88A

K9K, and 796

- the **earth cable nuts (8 N.m)**.

- Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-2**) (80A, Battery).

### III - TEST OPERATION

- Switch on the ignition.
- Connect the **Diagnostic tool**.
- Check that there are no faults.



### Equipment required

Diagnostic tool

### Tightening torques

earth nuts

8 N.m

### IMPORTANT

To avoid all risk of damage to the systems, apply the safety and cleanliness instructions and operation recommendations before carrying out any repair:

- (See **Wiring: Precautions for repair**) (88A, Wiring),
- (see **Vehicle: Precautions for repair**) (01D, Mechanical introduction).

### IMPORTANT

To prevent any accidental triggering during an operation on or near to a passive safety component, apply the procedure for deactivating the safety systems (see **88C, Air bag and Pretensioners, Air bag and pretensioners: Precautions for the repair**, page **88C-3**) (88C, Airbag and pretensioners)

### IMPORTANT

Never handle the pyrotechnic systems (pretensioners or airbags) near to a source of heat or naked flame - they may be triggered.

### WARNING

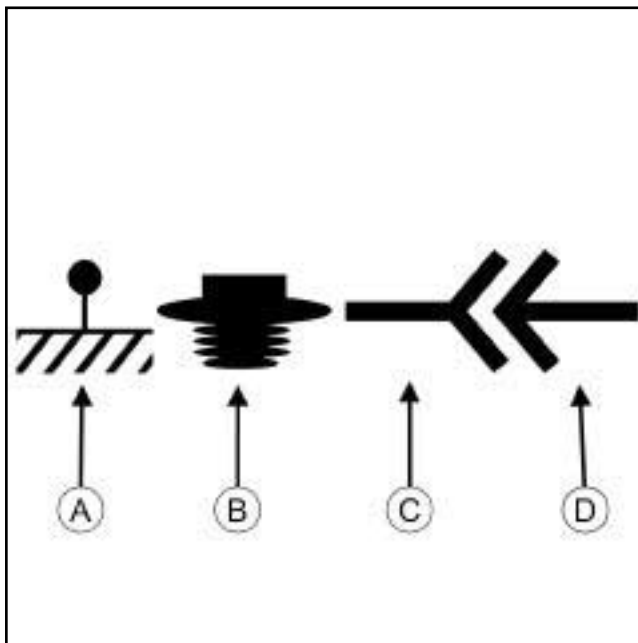
To prevent damage to the wiring harness when refitting, observe the original routing.

### WARNING

To prevent any damage to the connectors, consult the disconnection procedures (see **Connectors: Disconnection and reconnection**) (Technical Note 6015A, 88A, Wiring).

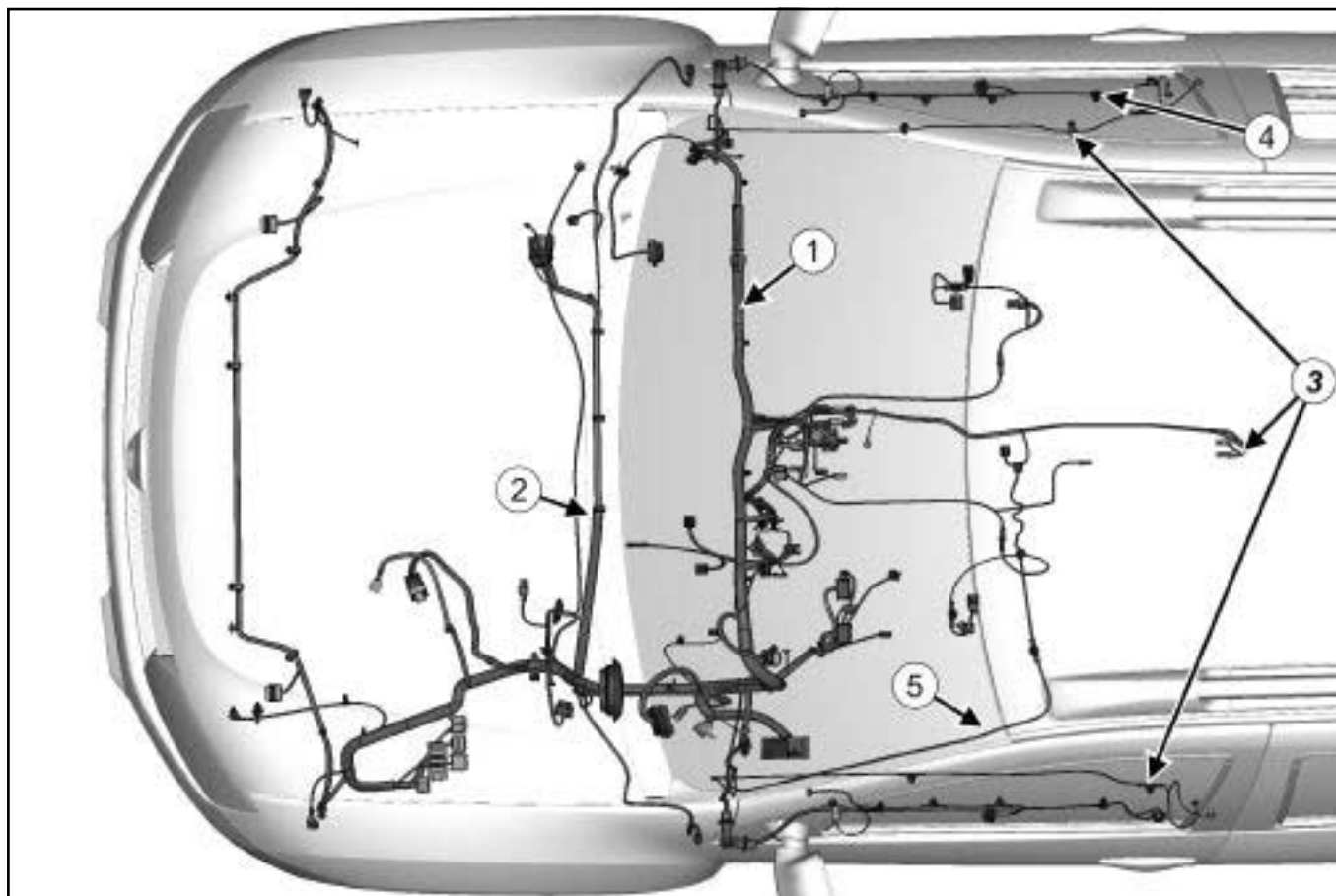
### Note:

For information on instrument connectors (see **Visu-Schéma**).



144441

- (A) Symbol for an earth
- (B) Symbol for a mounting (clip, clamp, etc.)
- (C) Symbol for a female connector (connection of 2 wires)
- (D) Symbol for a male connector (connection of 2 wires)



144392

- (1) Passenger compartment front wiring section on the dashboard cross member
- (2) Passenger compartment front wiring section in the engine compartment
- (3) Passenger compartment front wiring section on the floor
- (4) Passenger compartment front wiring section in the front doors
- (5) Passenger compartment front wiring section in the roof

## REMOVAL

### I - REMOVAL PREPARATION OPERATION

- Lock the airbag computer using the **Diagnostic tool** (see **Fault finding - Replacement of components**) (88C, Airbags and pretensioners).
- Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-2**) (80A, Battery).

### 1 - Passenger compartment front wiring section on the dashboard cross member

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

### 2 - Passenger compartment front wiring section in the engine compartment.

- Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (02A, Lifting equipment).
- Remove:
  - the scuttle panel grille,
  - the front bumper (see **Front bumper assembly: Exploded view**) (55A, Exterior protection),
  - the headlights (see **80B, Headlights, Headlight assembly: Exploded view**, page **80B-1**) (80B, Headlights),
  - the front right-hand wheel arch liner (see **Exterior body front trim assembly: Exploded view**) (55A, Exterior protection),
  - the engine compartment fuse and relay box cover,
  - the expansion bottle (see **Expansion bottle: Removal - Refitting**) (19A, Cooling).

## Passenger compartment front wiring: Removal - Refitting

### 3 - Passenger compartment front wiring section on the floor

Remove:

- the front seats (see **Front seat assembly: Exploded view**) (75A, Front seat frames and mechanisms),
- the central console (see **Centre console: Removal - Refitting**) (57A, Interior equipment),
- the floor carpet (see **Roof trim assembly: Exploded view**) (71A, Body internal trim),
- the B-pillar trim (see **Interior body side trim assembly: Exploded view**) (71A, Body internal trim).

### 4 - Passenger compartment front wiring section in the front doors

Remove the front side door trim (see **Front side door trim: Removal - Refitting**) (72A, Side opening elements trim).

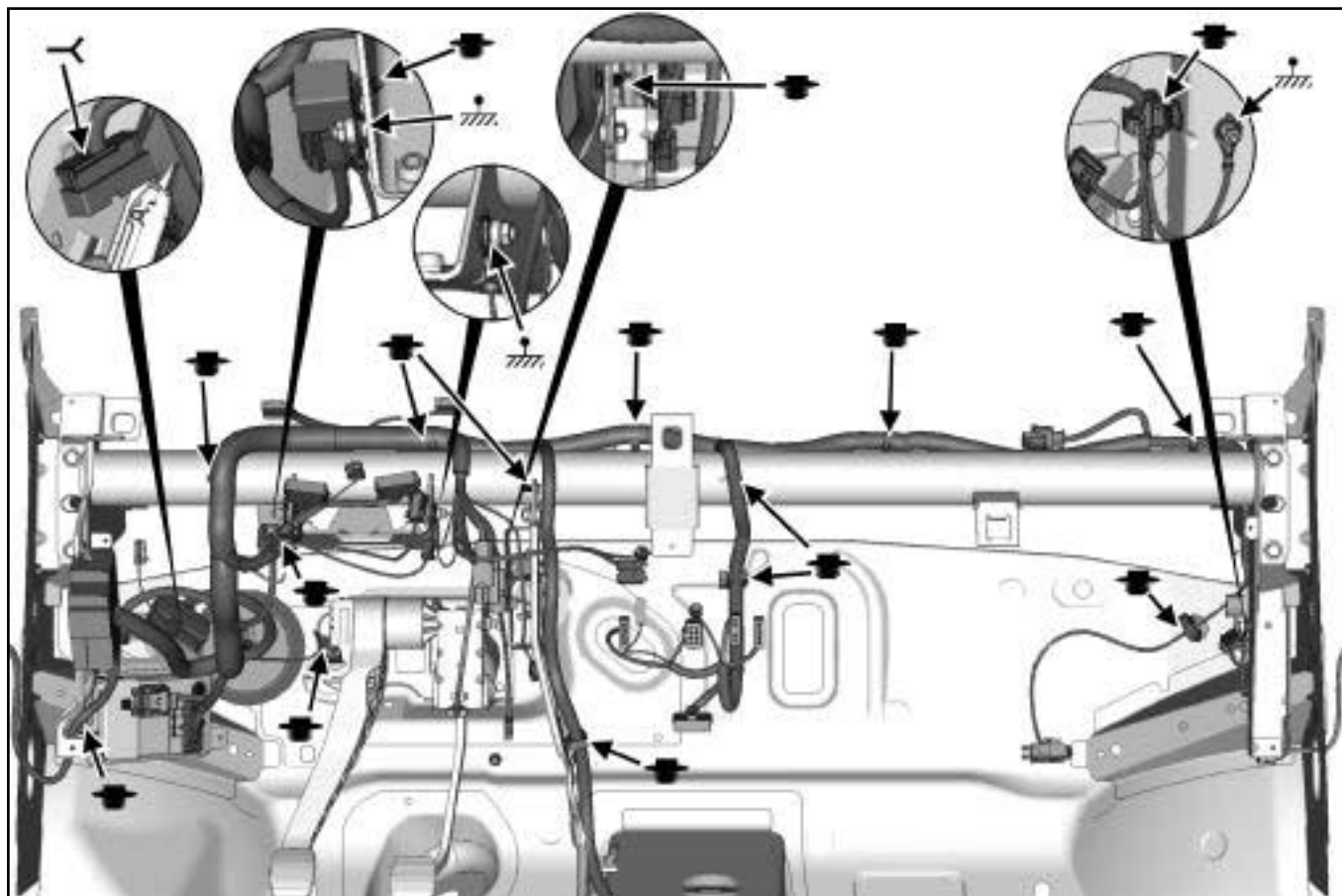
### 5 - Passenger compartment front wiring section in the roof

Remove:

- the windscreen pillar trim (see **Interior body side trim assembly: Exploded view**) (71A, Body internal trim).
- the headlining partially (see **Roof trim assembly: Exploded view**) (71A, Body internal trim).

## II - REMOVAL OPERATION

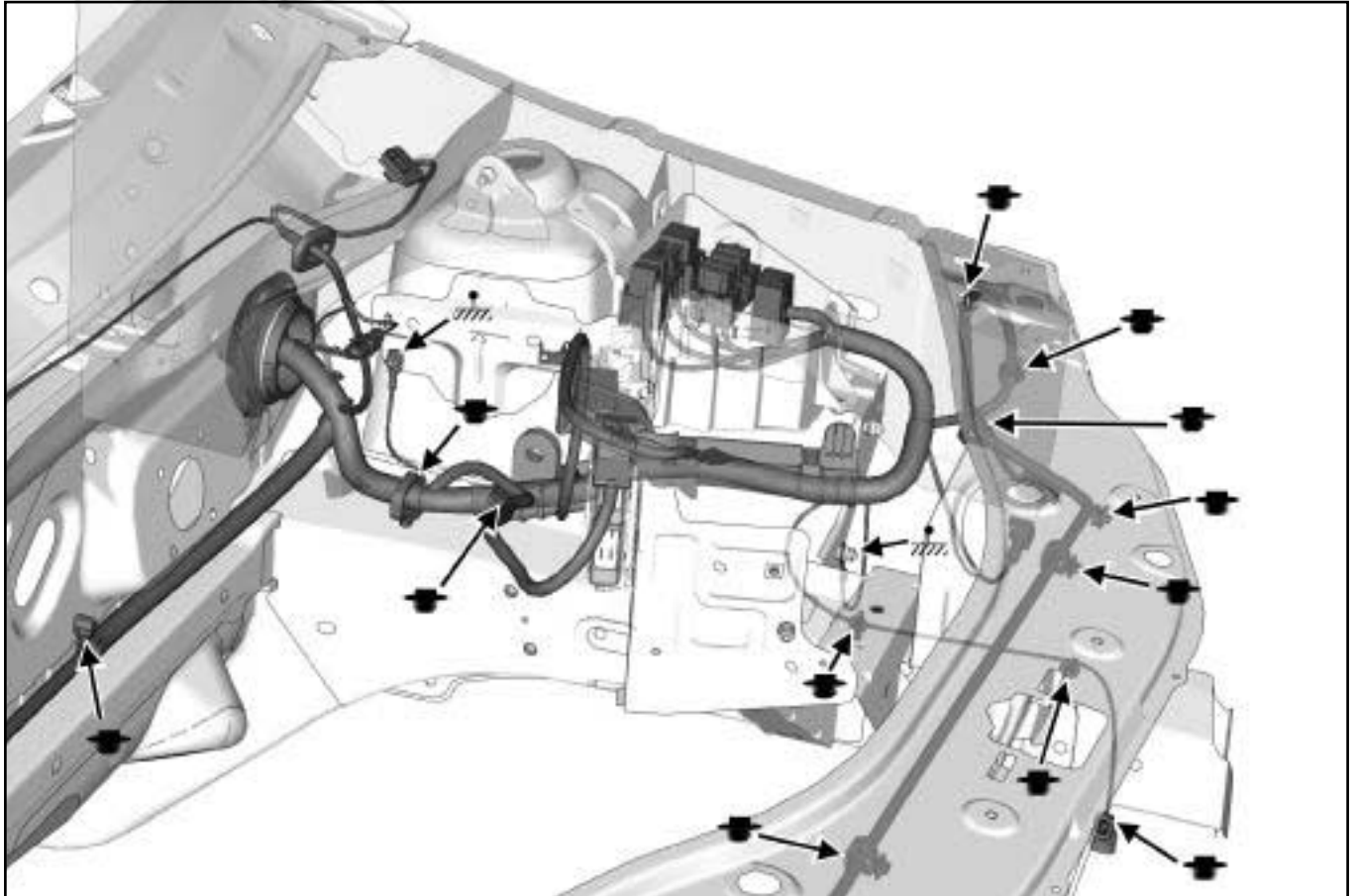
### 1 - Passenger compartment front wiring section on the dashboard cross member



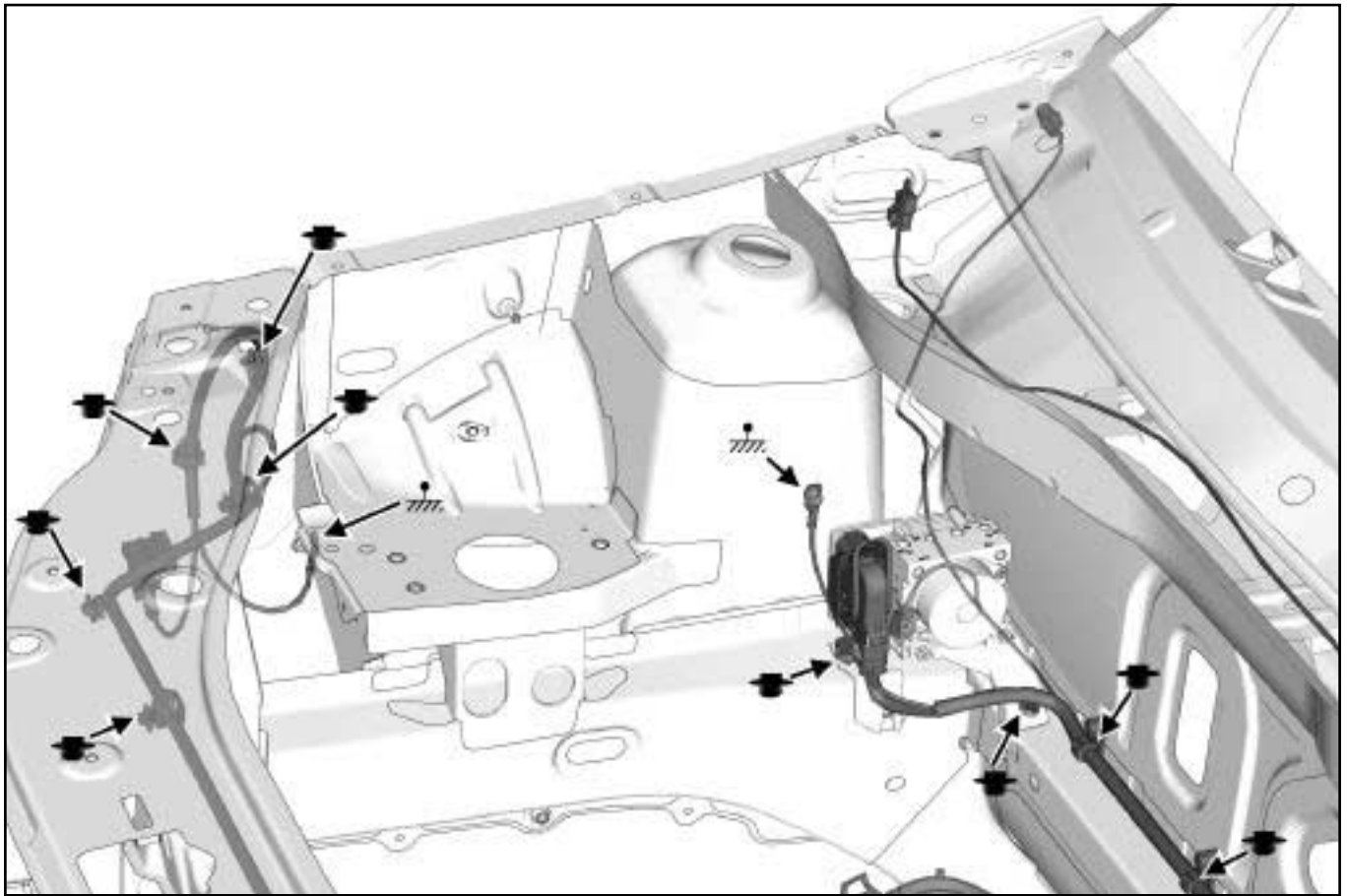
144393

- Disconnect all the connectors.
- Unclip the wiring section where indicated.
- Remove the earth terminals where indicated.
- Remove the wiring section.

2 - Passenger compartment front wiring section in the engine compartment



144397

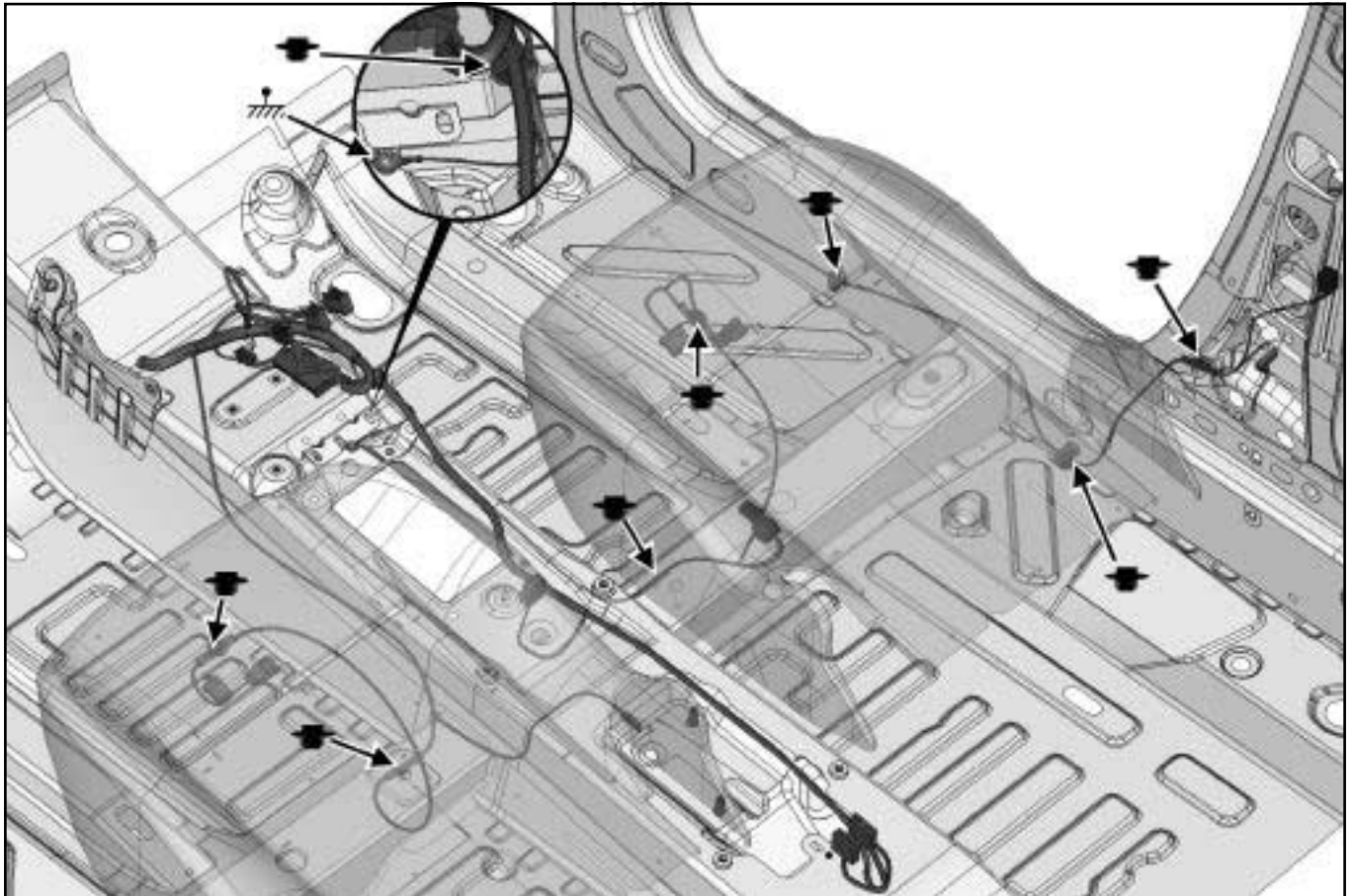


144398

- Disconnect all the connectors.
- Unclip the wiring section where indicated.
- Remove the earth terminals where indicated.
- Remove the wiring section.

## Passenger compartment front wiring: Removal - Refitting

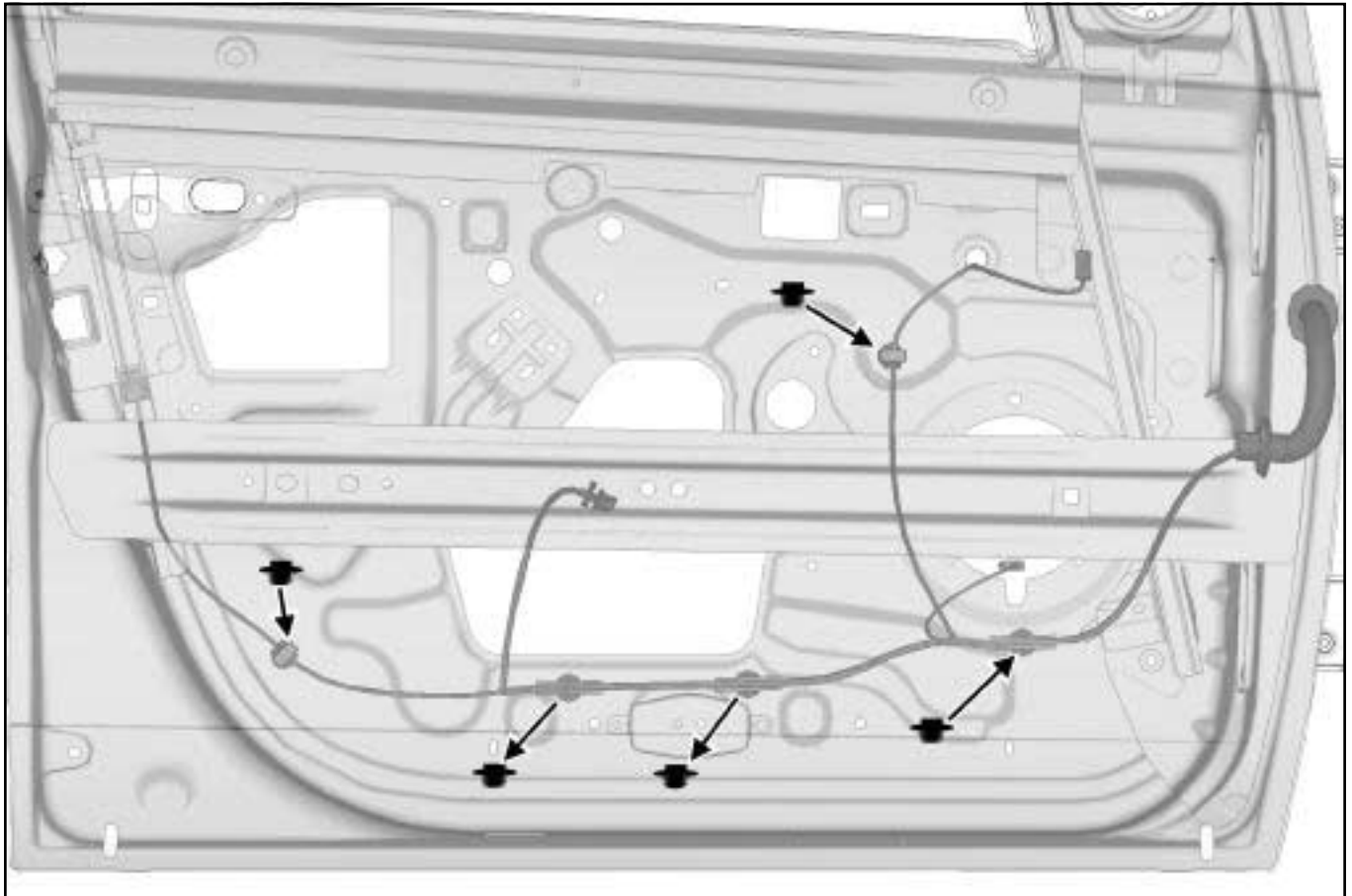
### 3 - Passenger compartment front wiring section on the floor



144394

- Disconnect all the connectors.
- Unclip the wiring section where indicated.
- Remove the earth terminals where indicated.
- Remove the wiring section.

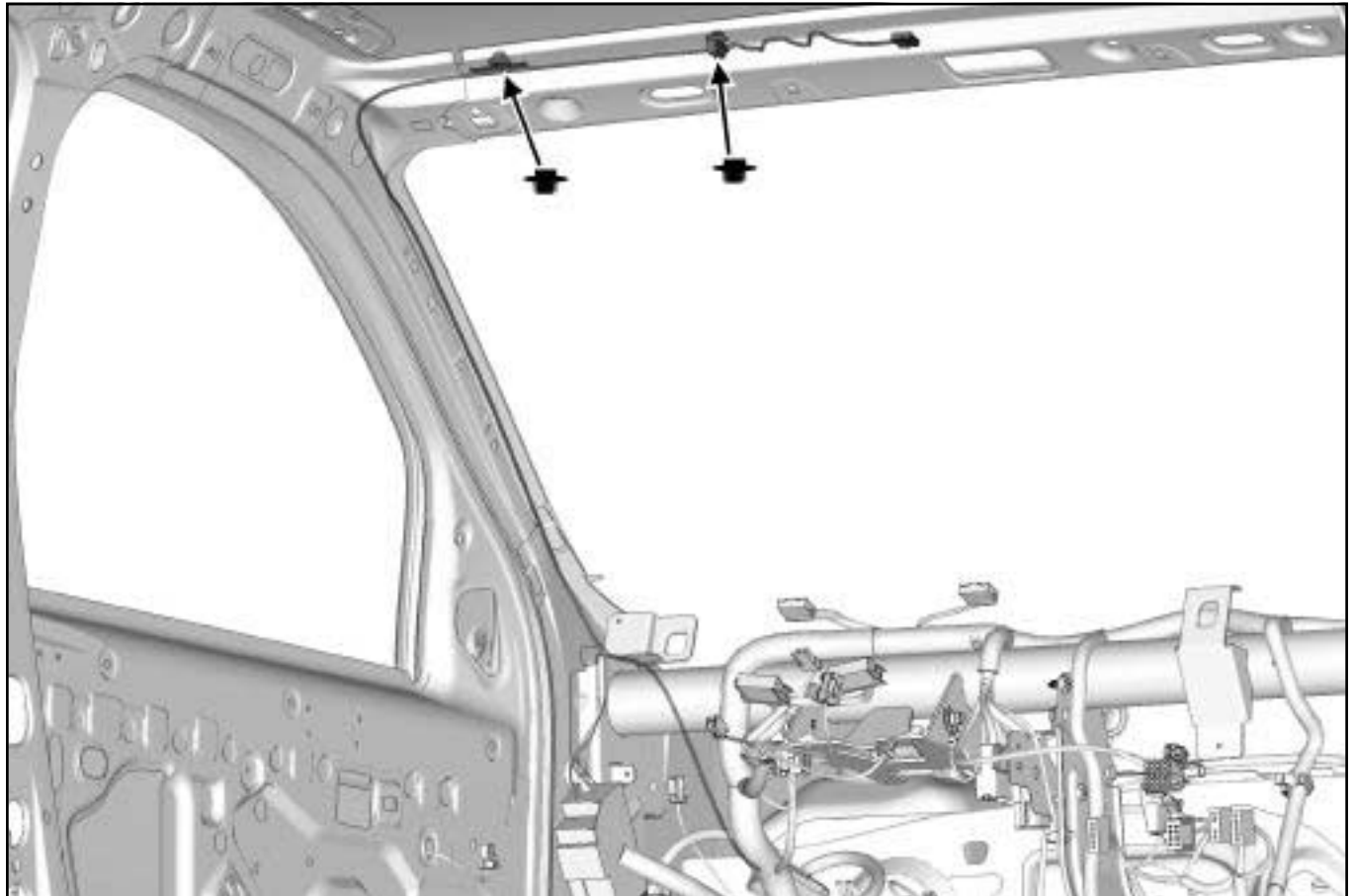
### 4 - Passenger compartment front wiring section on the floor



144396

- Disconnect all the connectors.
- Unclip the wiring section where indicated.
- Remove the earth terminals where indicated.
- Remove the wiring section.

### 5 - Passenger compartment front wiring section in the roof



144399

- Disconnect all the connectors.
- Unclip the wiring section where indicated.
- Remove the earth terminals where indicated.
- Remove the wiring section.

### REFITTING

#### REFITTING OPERATION

- Proceed in the reverse order to removal.
- Torque tighten the **earth nuts (8 N.m)**.
- Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-2**) (80A, Battery).
- Unlock the airbag computer using the **Diagnostic tool** (see **Fault finding - Replacement of components**) (88C, Airbags and pretensioners).



### Tightening torques

earth nuts	8 N.m
------------	-------

### IMPORTANT

To avoid all risk of damage to the systems, apply the safety and cleanliness instructions and operation recommendations before carrying out any repair:

- (See **Wiring: Precautions for repair**) (88A, Wiring),
- (see **Vehicle: Precautions for repair**) (01D, Mechanical introduction).

### IMPORTANT

To prevent any accidental triggering during an operation on or near to a passive safety component, apply the procedure for deactivating the safety systems (see **88C, Air bag and Pretensioners, Air bag and pretensioners: Precautions for the repair**, page **88C-3**) (88C, Airbag and pretensioners)

### IMPORTANT

Never handle the pyrotechnic systems (pretensioners or airbags) near to a source of heat or naked flame - they may be triggered.

### WARNING

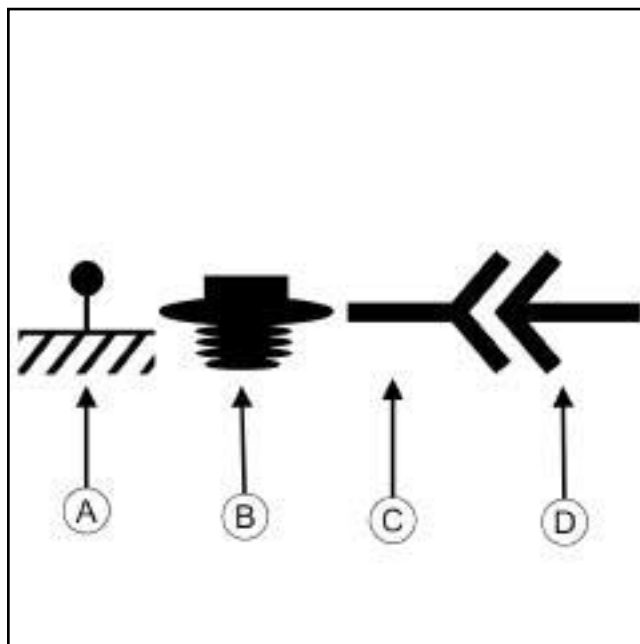
To prevent damage to the wiring harness when refitting, observe the original routing.

### WARNING

To prevent any damage to the connectors, consult the disconnection procedures (see **Connectors: Disconnection and reconnection**) (Technical Note 6015A, 88A, Wiring).

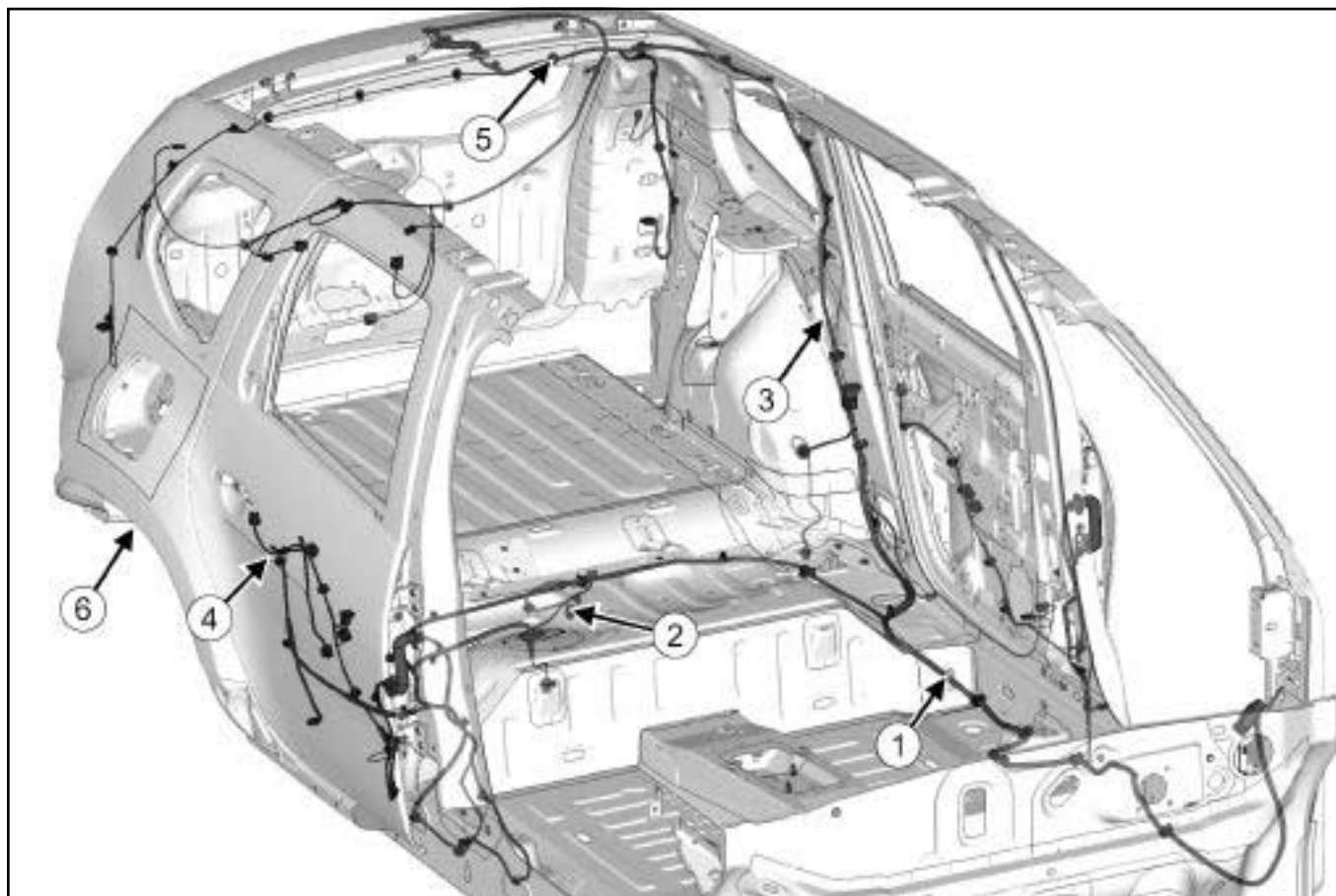
Note:

For information on instrument connectors (see **Visu-Schéma**).



144441

- (A) Symbol for an earth
- (B) Symbol for a mounting (clip, clamp, etc.)
- (C) Symbol for a female connector (connection of 2 wires)
- (D) Symbol for a male connector (connection of 2 wires)



144400

- (1) Passenger compartment rear wiring section on the floor
- (2) Passenger compartment rear wiring section under the floor
- (3) Passenger compartment rear wiring section on the body
- (4) Passenger compartment rear wiring section in the rear doors
- (5) Passenger compartment rear wiring section in the tailgate
- (6) Passenger compartment rear wiring section in the wheel arches

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

- Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-2**) (80A, Battery).

#### 1 - Passenger compartment rear wiring section on the floor

- Remove:
  - the floor carpet (see **Roof trim assembly: Exploded view**) (71A, Body internal trim),
  - the B-pillar trim (see **Interior body side trim assembly: Exploded view**) (71A, Body internal trim).
- Lift up the rear bench seat base.

#### 2 - Passenger compartment rear wiring section under the floor.

- Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (02A, Lifting equipment).
- Move the fuel tank away (see **Fuel tank: Removal - Refitting**) (19C, Tank).

#### 3 - Passenger compartment rear wiring section on the body

- Remove (see **Interior body side trim assembly: Exploded view**) (71A, Body internal trim):
  - the C-pillar trims,
  - the parcel shelf side trims,

## Passenger compartment rear wiring: Removal - Refitting

- the upper C-pillar trims,
- the luggage compartment side trims.

- Partially remove the headlining (see **Roof trim assembly: Exploded view**) (71A, Body internal trim).

### 4 - Passenger compartment rear wiring section in the rear doors

- Remove the rear side door trim (see **Rear side door trim: Removal - Refitting**) (72A, Side opening element trim).

### 5 - Passenger compartment rear wiring section in the tailgate

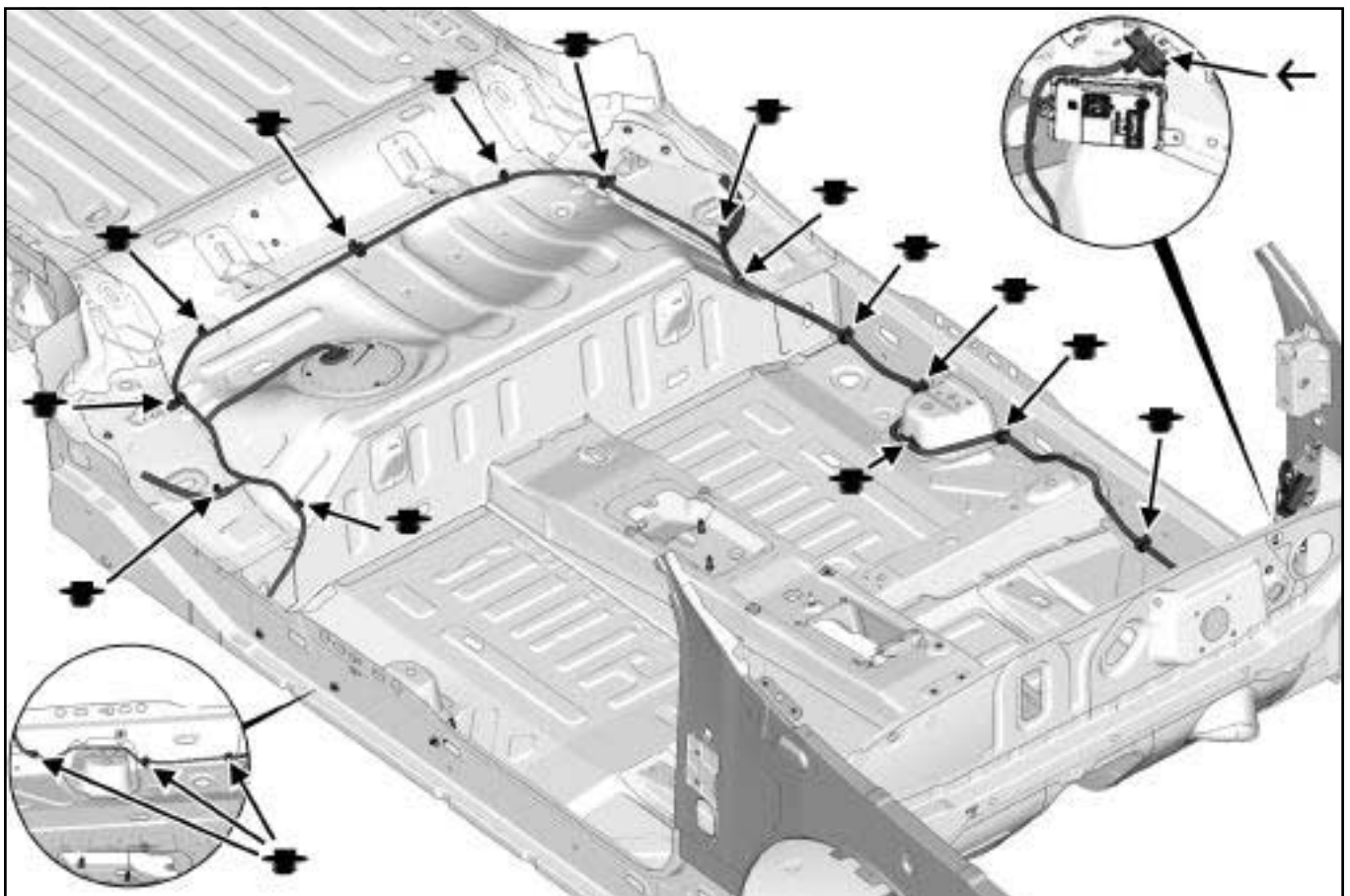
- Remove the tailgate trim (see ) (73A, Non-side opening elements trim).

### 6 - Passenger compartment rear wiring section in the wheel arches

- Remove:
  - the rear wheels (see **Wheel: Removal - Refitting**) (35A, Wheels and tyres)
  - the ABS sensor cover.

## II - REMOVAL OPERATION

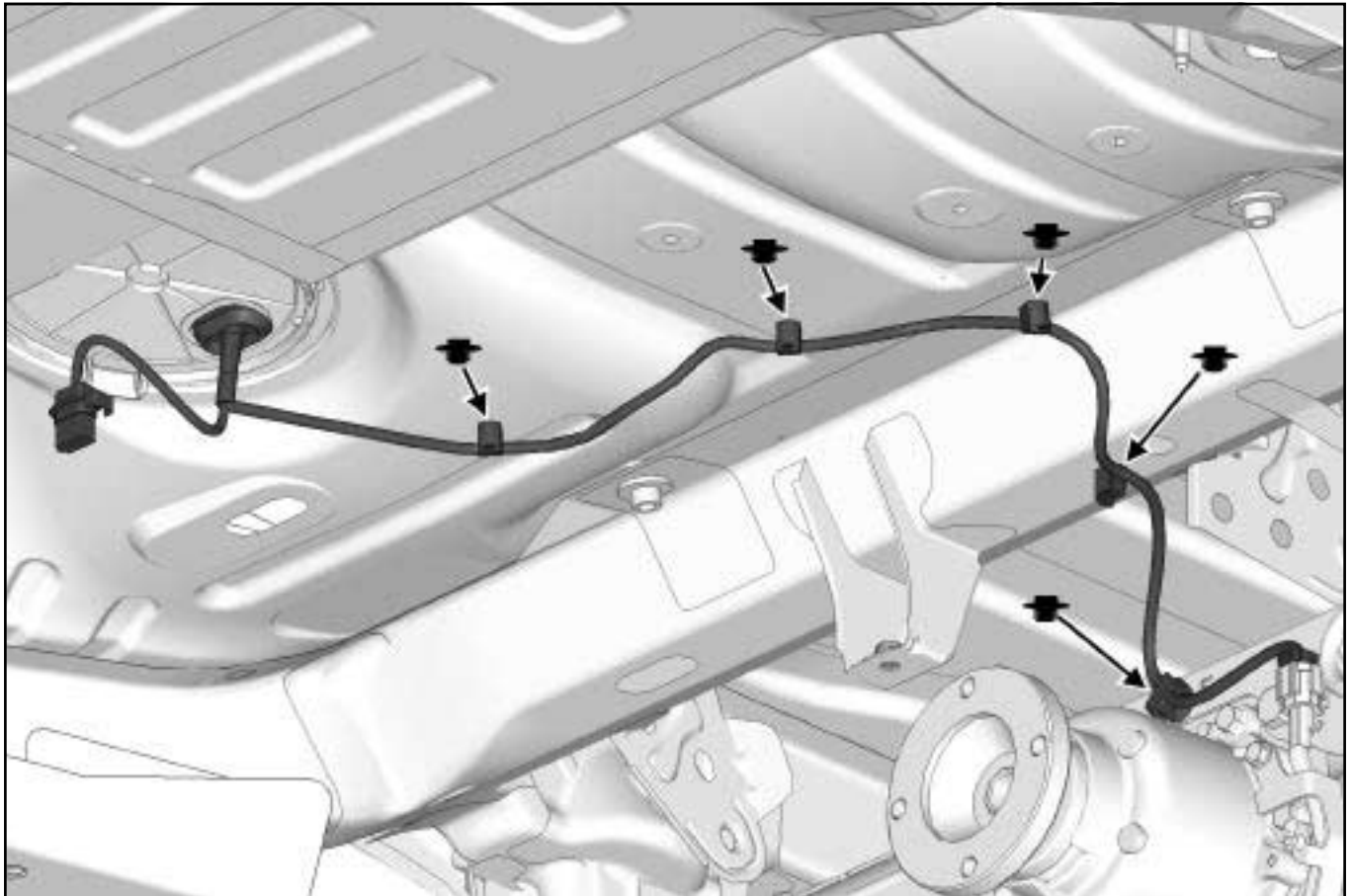
### 1 - Passenger compartment rear wiring section on the floor



144401

- Disconnect all the connectors.
- Unclip the wiring section where indicated.
- Remove the earth terminals where indicated.
- Remove the wiring section.

2 - Passenger compartment rear wiring section under the floor.



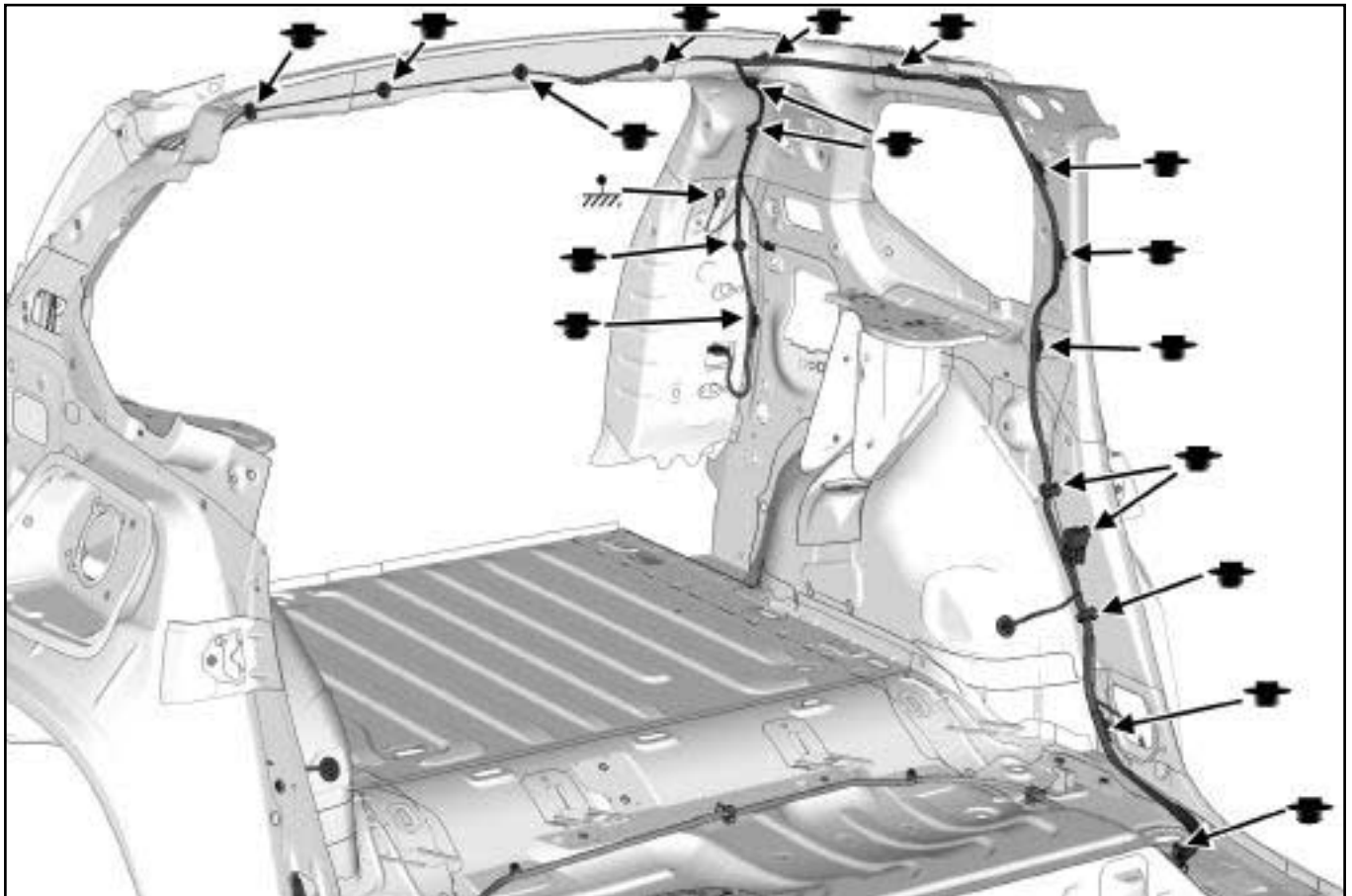
144406

- Disconnect all the connectors.
- Unclip the wiring section where indicated.
- Remove the earth terminals where indicated.
- Remove the wiring section.

## Passenger compartment rear wiring: Removal - Refitting

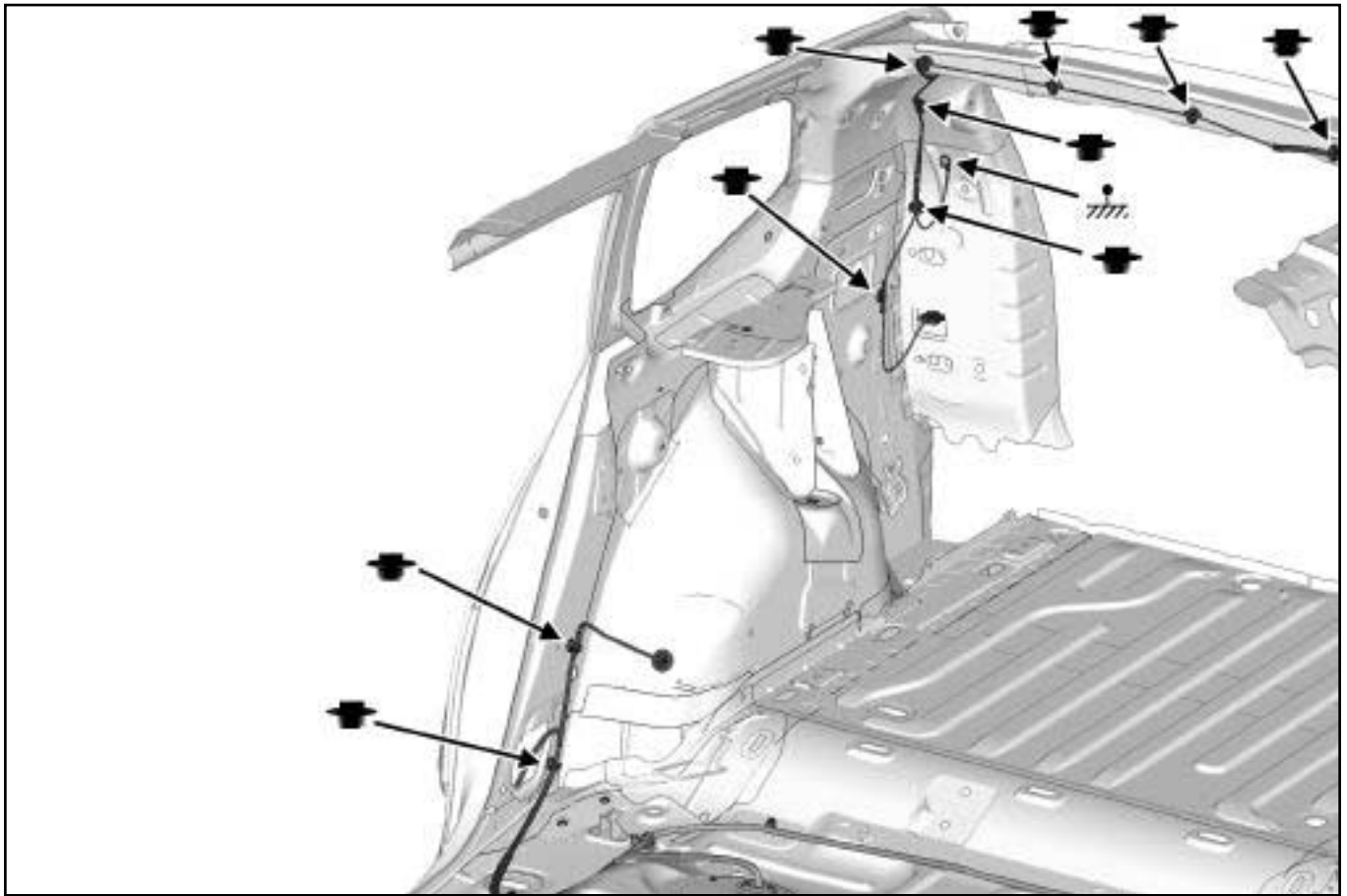
3 - Passenger compartment rear wiring section on the body

Left-hand side



144404

### Right-hand side

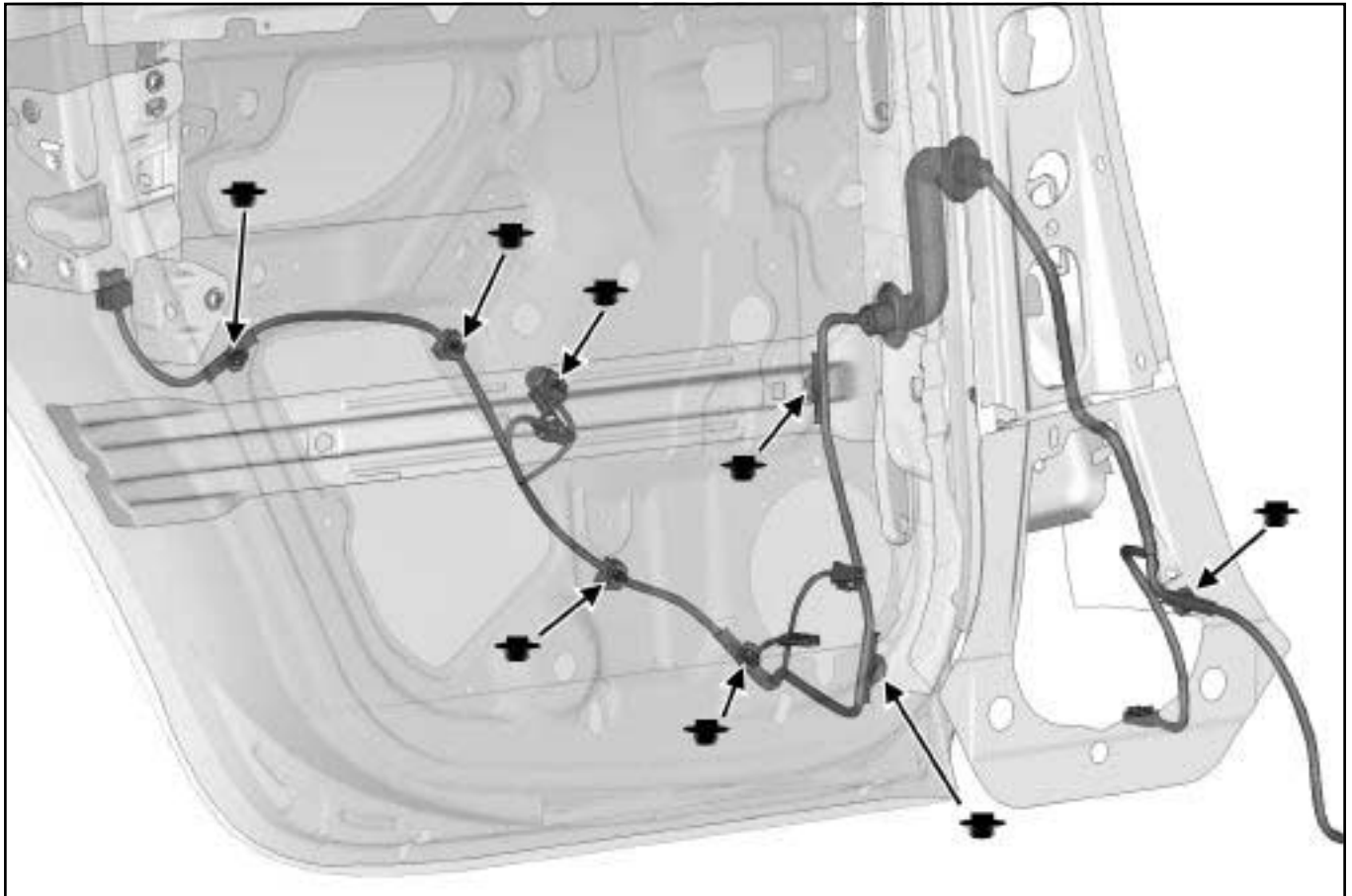


144408

- Disconnect all the connectors.
- Unclip the wiring section where indicated.
- Remove the earth terminals where indicated.
- Remove the wiring section.

## Passenger compartment rear wiring: Removal - Refitting

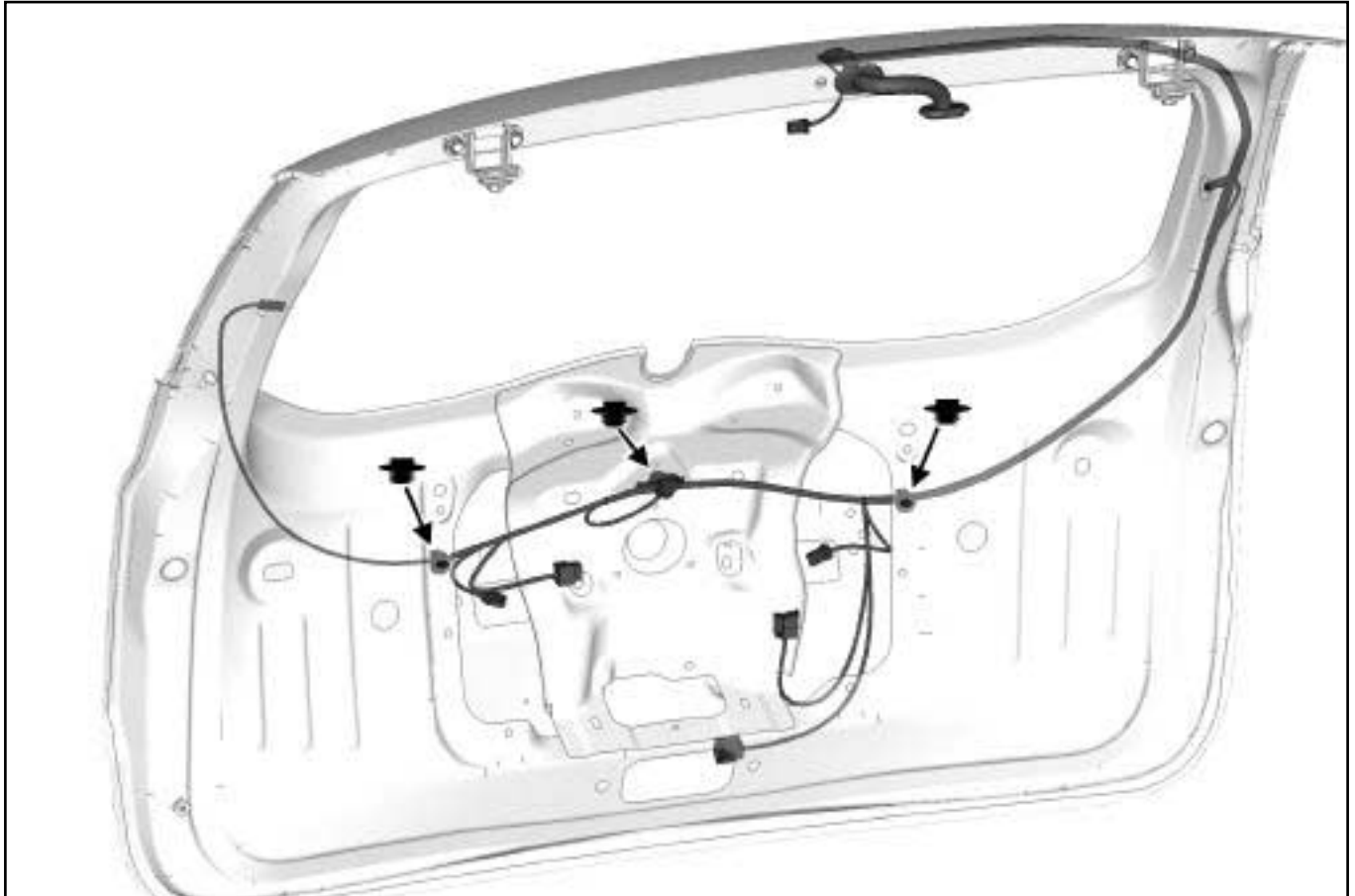
### 4 - Passenger compartment rear wiring section in the rear doors



144402

- Disconnect all the connectors.
- Unclip the wiring section where indicated.
- Remove the earth terminals where indicated.
- Remove the wiring section.

### 5 - Passenger compartment rear wiring section in the tailgate

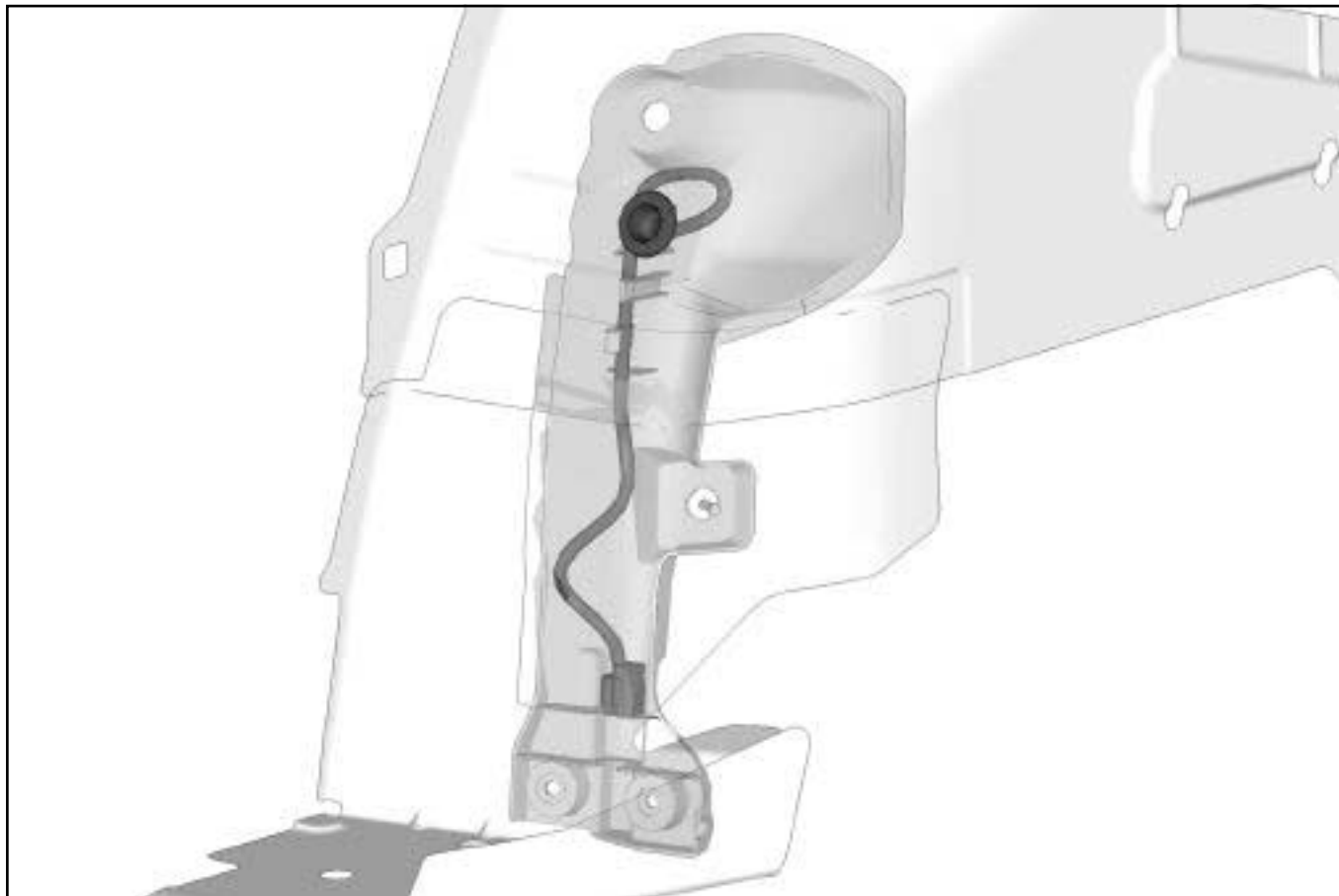


144410

- Disconnect all the connectors.
- Unclip the wiring section where indicated.
- Remove the earth terminals where indicated.
- Remove the wiring section.



### 6 - Passenger compartment rear wiring section in the wheel arches



144459

- Disconnect all the connectors.
- Unclip the wiring section where indicated.
- Remove the earth terminals where indicated.
- Remove the wiring section.

### REFITTING

#### REFITTING OPERATION

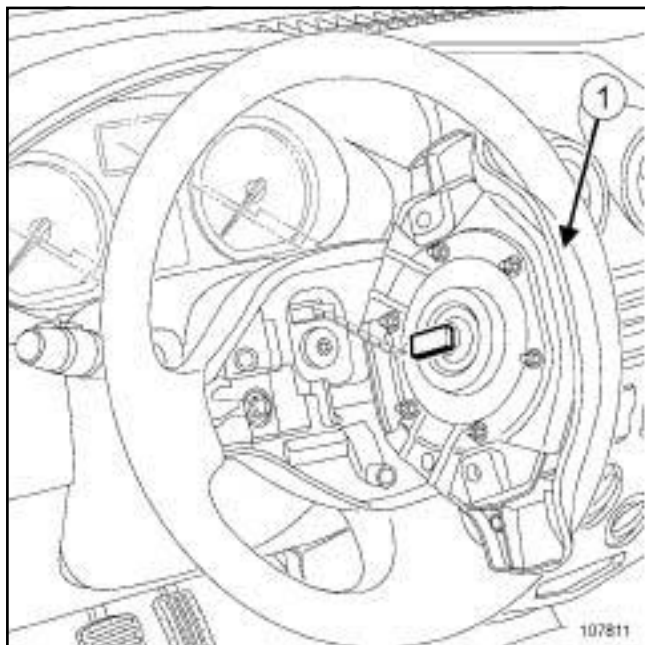
- Proceed in the reverse order to removal.
- Torque tighten the **earth nuts (8 N.m)**.
- Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-2**) (80A, Battery).

### I - LIST OF COMPONENTS

No.	Description
(1)	Driver's front airbag
(2)	Passenger front airbag
(3)	Front side airbag
(4)	Airbag computer
(5)	Side impact sensor
(6)	Inhibitor switch

### II - LOCATION OF COMPONENTS

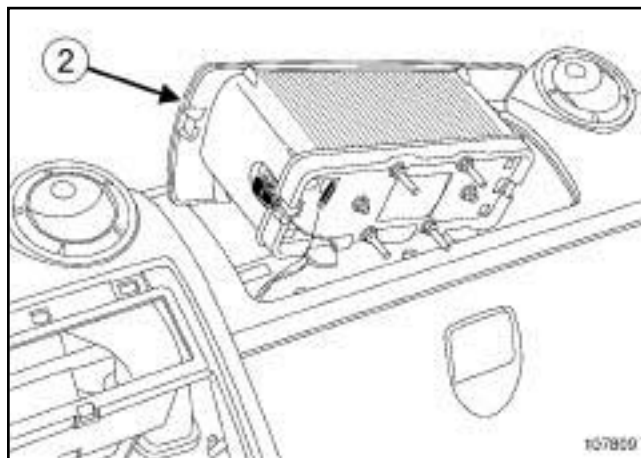
#### 1 - DRIVER'S FRONT AIRBAG



Driver's front airbag (1)

#### 2 - PASSENGER'S FRONT AIRBAG

##### PASSENGER AIRBAG

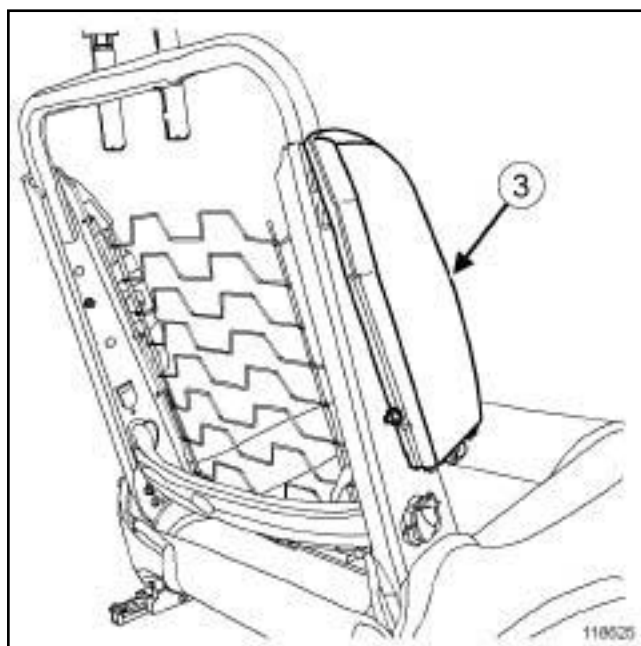


107809

Passenger front airbag (2)

#### 3 - FRONT SIDE AIRBAG

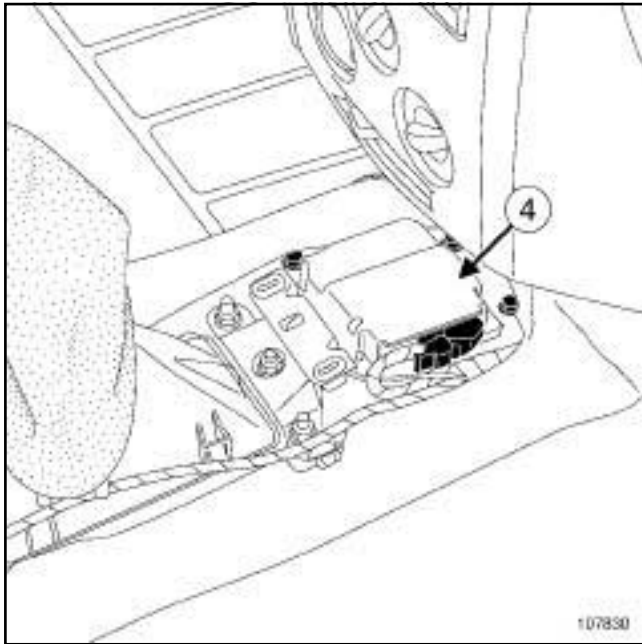
##### FRONT SIDE AIRBAG



118625

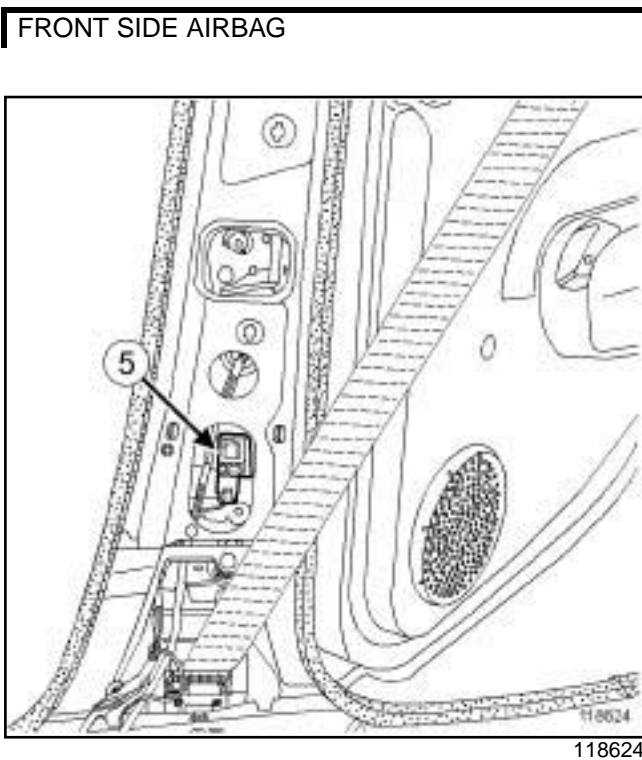
Front side airbag (3)

### 4 - AIRBAG COMPUTER



Airbag computer (4)

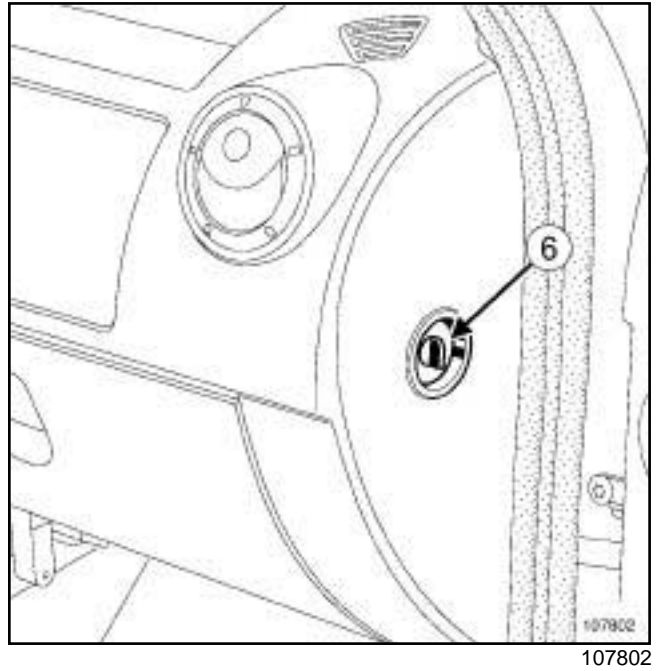
### 5 - SIDE IMPACT SENSOR



Side impact sensor (5)

### 6 - INHIBITOR SWITCH

#### PASSENGER AIRBAG



Inhibitor switch (6)

## Airbag and pretensioners: Precautions for the repair

### Equipment required

Diagnostic tool

### I - PRECAUTIONS FOR REPAIR

#### IMPORTANT

All operations on airbag and pretensioner systems must be carried out by qualified trained personnel.

The airbags have a pyrotechnic gas generator, with an ignition module and bag which must not be separated.

The pretensioners have a pyrotechnic gas generator and an igniter which must, under no circumstances, be separated.

#### IMPORTANT

Never handle the pyrotechnic systems (pretensioners or airbags) near to a source of heat or naked flame - they may be triggered.

#### IMPORTANT

To prevent any accidental triggering whilst working on or near a pyrotechnic component (airbags or pretensioners), lock the airbag computer using the **Diagnostic tool**.

When this function is activated, all the trigger lines are inhibited and the airbag warning light on the instrument panel lights up continuously (ignition on).

(see **Fault finding - Replacement of components**) (88C, Airbag and pretensioners).

When working underneath the vehicle (on the bodywork, sill panel, etc.) or for certain operations involving removal or refitting of seat trims, it is essential to lock the airbag computer using the **Diagnostic tool** and to disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-2**).

#### IMPORTANT

To prevent the pyrotechnic components from being permanently deactivated or triggered (airbags or pretensioners), check the airbag computer using the **Diagnostic tool**.

The pyrotechnic systems (pretensioners and airbags) must be checked using the **Diagnostic tool** :

- after an accident,
- after theft or attempted theft of the vehicle,
- before selling a used vehicle.

### II - TRIGGERING OF THE SAFETY SYSTEMS

#### IMPORTANT

In order to prevent interference with the deployment of the airbags:

- do not fit a cover to the front seats,
- do not place objects in the area of deployment.

After detection of an impact, the airbag computer locks definitively and the « airbag fault » warning light is illuminated on the instrument panel. The airbag computer and the side impact sensors must always be replaced.

#### IMPORTANT

To eliminate the risk of any accident, do not reuse pyrotechnic components.

It is essential to destroy pretensioners or airbags before scrapping a vehicle or a part only (see **Airbags and pretensioners: Recycling - Destruction**).

### III - DURABILITY OF THE PYROTECHNIC COMPONENTS

The precautions which recommended that pyrotechnic components (airbags and pretensioners) were replaced 10 years after the registration of the vehicle have now been lifted.

Pyrotechnic components (airbags and pretensioners) do not therefore require any maintenance.

# AIR BAG AND PRETENSIONERS

## Airbag computer: Removal - Refitting

# 88C

### Equipment required

Diagnostic tool

### Tightening torques

airbag computer bolts **8 N.m**

### IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88C, Air bag and Pretensioners, Airbag and pretensioners: Precautions for the repair, page 88C-3**).

## REMOVAL

### I - REMOVAL PREPARATION OPERATION



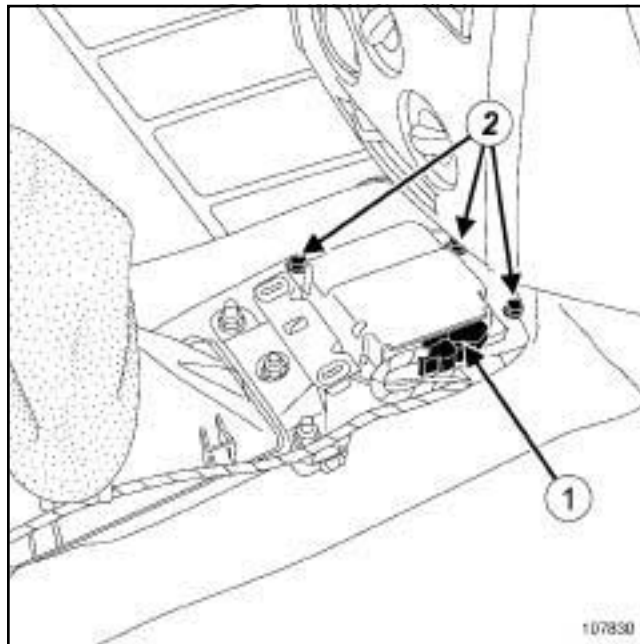
#### IMPORTANT

To avoid any risk of triggering when working on or near a pyrotechnic component (airbags or pretensioners), lock the airbag computer using the diagnostic tool.

When this function is activated, all the trigger lines are inhibited and the airbag warning light on the instrument panel lights up continuously (ignition on).

- Lock the airbag computer (see **Fault finding - Replacement of components**) (88C, Airbags and pretensioners).
- Switch off the ignition.
- Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page 80A-2).
- Remove the centre console (see **Centre console: Removal - Refitting**) (57A, Interior equipment).

### II - OPERATION FOR REMOVAL OF PART CONCERNED



107830

- Disconnect the connector (1).
- Remove:
  - the three airbag computer bolts (2),
  - the airbag computer.

## REFITTING

### I - REFITTING OPERATION

- Refit:
  - the airbag computer,
  - the three airbag computer bolts.
- Torque tighten the **airbag computer bolts (8 N.m)**.
- Connect the connector.

### II - FINAL OPERATION

- Refit the centre console (see **Centre console: Removal - Refitting**) (57A, Interior equipment).
- Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page 80A-2).

# AIR BAG AND PRETENSIONERS

## Airbag computer: Removal - Refitting

---

**88C**

- ❑ If the airbag computer is being replaced, carry out the necessary operations using the **Diagnostic tool** (see **Fault finding - Replacement of components**) (88C, Airbags and pretensioners).

### **IMPORTANT**

To avoid a fault with or even triggering of pyrotechnic components (airbags or pretensioners), check the airbag computer using the diagnostic tool.

- ❑ Unlock the airbag computer (see **Fault finding - Replacement of components**) (88C, Airbag and pretensioners).

# AIR BAG AND PRETENSIONERS

## Driver's frontal airbag: Removal - Refitting

88C

### DRIVER'S AIRBAG 1

#### IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88C, Air bag and Pretensioners, Airbag and pretensioners: Precautions for the repair**, page **88C-3**).

## REMOVAL

### I - REMOVAL PREPARATION OPERATION



#### IMPORTANT

To avoid any risk of triggering when working on or near a pyrotechnic component (airbags or pretensioners), lock the airbag computer using the diagnostic tool.

When this function is activated, all the trigger lines are inhibited and the airbag warning light on the instrument panel lights up continuously (ignition on).

#### IMPORTANT

Never handle the pyrotechnic systems (pretensioners or airbags) near to a source of heat or naked flame - they may be triggered.

- Lock the airbag computer (see **Fault finding - Replacement of components**) (88C, Airbags and pretensioners).
- Switch off the ignition.
- Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-2**).

### II - OPERATION FOR REMOVAL OF PART CONCERNED

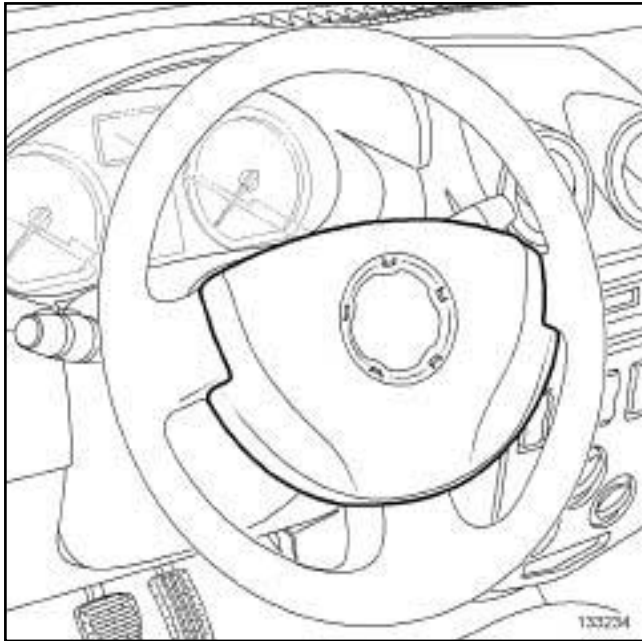
- Turn the steering wheel one quarter of a turn.

# AIR BAG AND PRETENSIONERS

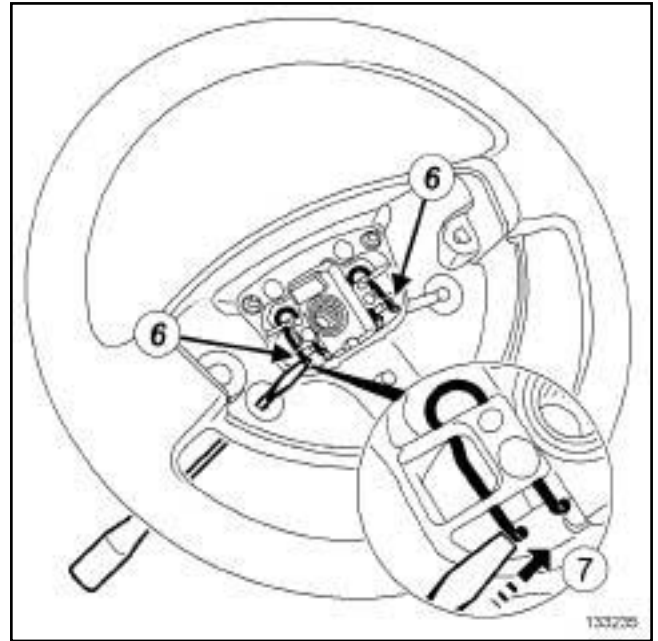
## Driver's frontal airbag: Removal - Refitting

88C

### DRIVER'S AIRBAG 1



133234



133235



133233

- Unclip the driver's front airbag by separating the clips (6) in the direction of the arrow (7) using a flat-blade screwdriver via the back of the steering wheel.

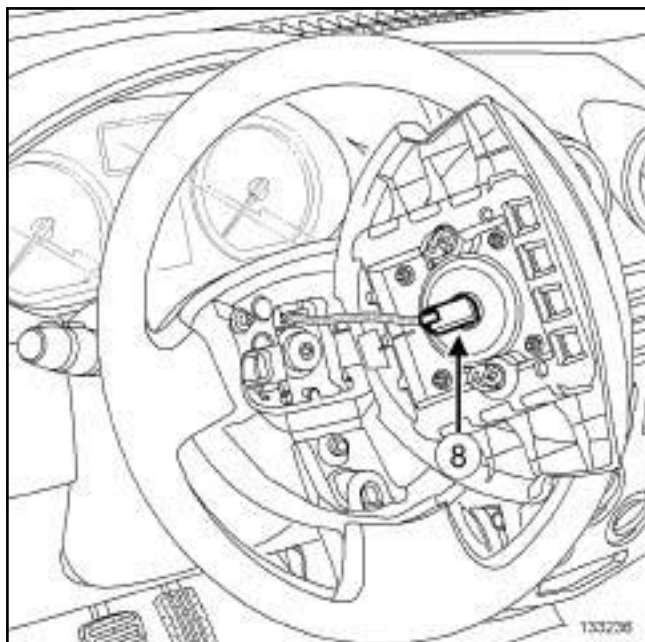


# AIR BAG AND PRETENSIONERS

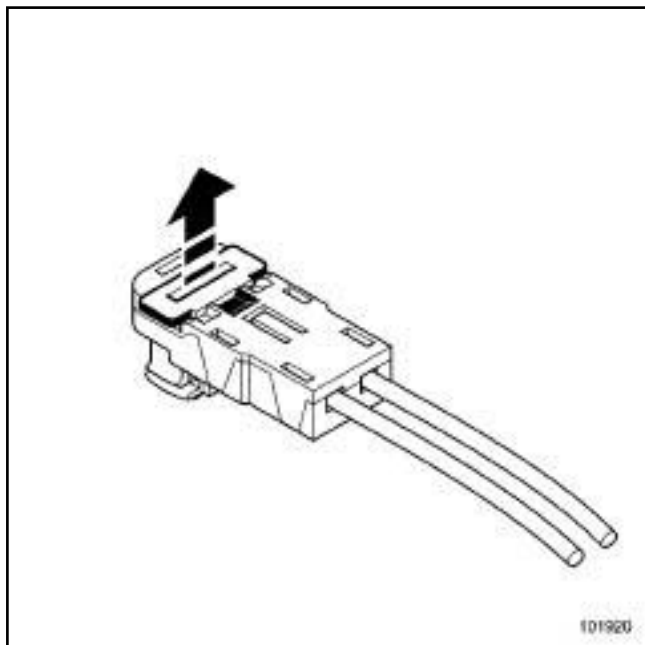
## Driver's frontal airbag: Removal - Refitting

# 88C

### DRIVER'S AIRBAG 1



133236



101920

□

#### Note:

The airbag has a connector which short circuits if disconnected, to prevent accidental triggering.

- Unclip the safety cover from the driver's front airbag connector.
- Disconnect the connector (8) from the driver's front airbag.

□

#### IMPORTANT

To prevent any component from being thrown upwards, store the airbag with the inflatable cushion facing upwards.

- Remove the driver's front airbag.

### REFITTING

#### I - REFITTING PREPARATION OPERATION

□

#### IMPORTANT

After a seat belt pyrotechnic component is triggered, it is essential to replace certain parts (see **88C, Air bag and Pretensioners, Airbag and pretensioners: Precautions for the repair**, page 88C-3).

#### II - REFITTING OPERATION FOR PART CONCERNED

- Connect the connector onto the driver's front airbag.
- Clip the safety cover onto the driver's front airbag connector.
- Refit the driver's front airbag
- Clip the driver's front airbag onto the steering wheel.

#### III - FINAL OPERATION

- Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page 80A-2).

#### IMPORTANT

To avoid a fault with or even triggering of pyrotechnic components (airbags or pretensioners), check the airbag computer using the diagnostic tool.

- Unlock the airbag computer (see **Fault finding - Replacement of components**) (88C, Airbag and pretensioners).

#### IMPORTANT

To eliminate the risk of any accident, do not reuse pyrotechnic components.

It is essential to destroy pretensioners or airbags before scrapping a vehicle or a part only (see **Airbags and pretensioners: Recycling - Destruction**).

## Passenger's frontal airbag: Removal - Refitting

### PASSENGER AIRBAG

#### Equipment required

Diagnostic tool

#### Tightening torques

passenger's frontal air-  
bag module nuts **8 N.m**

#### IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88C, Air bag and Pretensioners, Air bag and pretensioners: Precautions for the repair**, page **88C-3**).

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

#### IMPORTANT

To avoid any risk of triggering when working on or near a pyrotechnic component (airbags or pretensioners), lock the airbag computer using the diagnostic tool.

When this function is activated, all the trigger lines are inhibited and the airbag warning light on the instrument panel lights up continuously (ignition on).

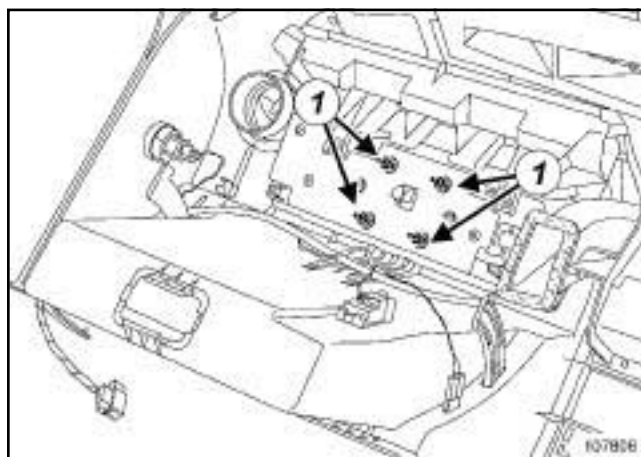
#### IMPORTANT

Never handle the pyrotechnic systems (pretensioners or airbags) near to a source of heat or naked flame - they may be triggered.

- Lock the airbag computer (see **Fault finding - Replacement of components**) (88C, Airbags and pretensioners).
- Switch off the ignition.
- Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-2**).
- Remove:
  - the driver's frontal airbag (see **88C, Air bag and Pretensioners, Driver's frontal airbag: Removal - Refitting**, page **88C-6**),

- the steering wheel (see **Steering wheel: Removal - Refitting**) (36A, Steering assembly),
- the steering column switch assembly (see **84A, Control - Signals, Steering column switch assembly: Removal - Refitting**, page **84A-2**),
- the instrument panel (see **83A, Instrument panel, Instrument panel: Removal - Refitting**, page **83A-1**),
- the radio (see **86A, Radio, Radio: Removal - Refitting**, page **86A-3**),
- the dashboard (see **Dashboard: Removal - Refitting**) (57A, Interior equipment).

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



107806

#### WARNING

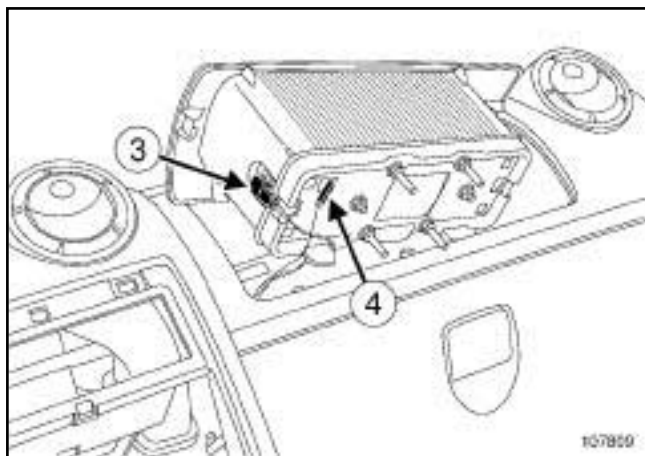
To prevent damage to the wiring harness when refitting, observe the original routing.

Mark the wiring routing at the airbag module.

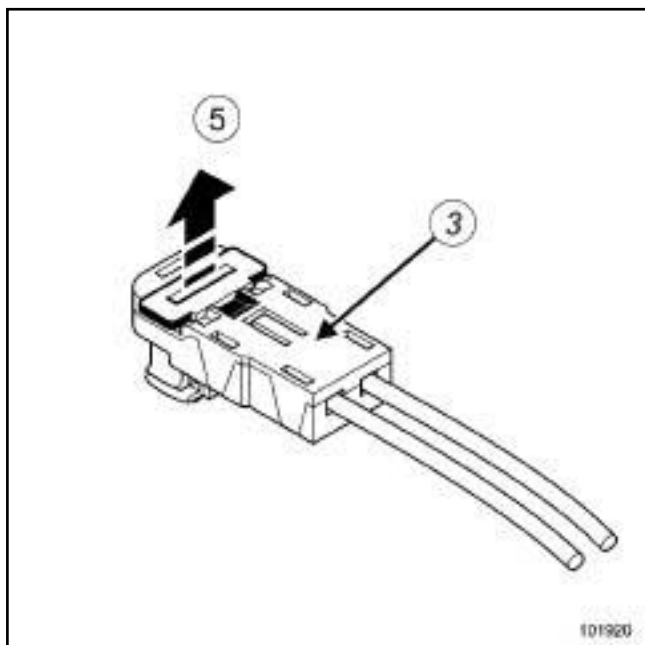
- Remove the nuts (1) of the passenger's frontal airbag module.

## Passenger's frontal airbag: Removal - Refitting

### PASSENGER AIRBAG



107809



101920

- Unlock the passenger's frontal airbag connector (3) at (5) .
- Disconnect:
  - the passenger's frontal airbag module connector (3) ,
  - the earth terminal (4) .
- Remove the passenger's frontal airbag module.

### REFITTING

#### I - REFITTING PREPARATION OPERATION



##### IMPORTANT

After a seat belt pyrotechnic component is triggered, it is essential to replace certain parts (see **88C, Air bag and Pretensioners, Airbag and pretensioners: Precautions for the repair, page 88C-3**) .

- parts always to be replaced: **Passenger's frontal airbag mounting on dashboard**

#### II - REFITTING OPERATION FOR PART CONCERNED



##### IMPORTANT

To prevent the airbag triggering, connect the earth wire before the igniter connector.

- Connect the following to the passenger's frontal airbag:
  - the earth terminal,
  - the passenger frontal airbag module connector.
- Lock the passenger frontal airbag connector.
- Refit:
  - the passenger's frontal airbag module,
  - the new nuts of the passenger's frontal airbag module.
- Tighten to torque the **passenger's frontal airbag module nuts (8 N.m)**.
- Refit the wiring at the passenger's frontal airbag module in the position marked during removal.

#### III - FINAL OPERATION

- Refit:
  - the dashboard (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
  - the radio (see **86A, Radio, Radio: Removal - Refitting, page 86A-3**) ,
  - the instrument panel (see **83A, Instrument panel, Instrument panel: Removal - Refitting, page 83A-1**) ,
  - the steering column switch assembly (see **84A, Control - Signals, Steering column switch assembly: Removal - Refitting, page 84A-2**) ,

## Passenger's frontal airbag: Removal - Refitting

## PASSENGER AIRBAG

- the steering wheel (see **Steering wheel: Removal - Refitting**) (36A, Steering assembly),
  - the driver's frontal airbag (see **88C, Air bag and Pretensioners, Driver's frontal airbag: Removal - Refitting**, page **88C-6**).
- Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-2**).

**IMPORTANT**

To prevent the pyrotechnic components from being permanently deactivated or triggered (airbags or pretensioners), check the airbag computer using the **Diagnostic tool**.

- Unlock the airbag computer (see **Fault finding - Replacement of components**) (88C, Airbag and pretensioners).

**IMPORTANT**

To eliminate the risk of any accident, do not reuse pyrotechnic components.

It is essential to destroy pretensioners or airbags before scrapping a vehicle or a part only (see **Airbags and pretensioners: Recycling - Destruction**).

## Front (chest-level) side airbag: Removal - Refitting

### FRONT SIDE AIRBAG

#### Tightening torques

side airbag nuts	10 N.m
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The front (chest level) side airbag is mounted on the back of each front seat at the door side.

When it inflates, the airbag tears open the cover of the module and the foam and unclips the seat cover.

#### IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88C, Air bag and Pretensioners, Airbag and pretensioners: Precautions for the repair**, page 88C-3) .

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION



#### IMPORTANT

To avoid any risk of triggering when working on or near a pyrotechnic component (airbags or pretensioners), lock the airbag computer using the diagnostic tool.

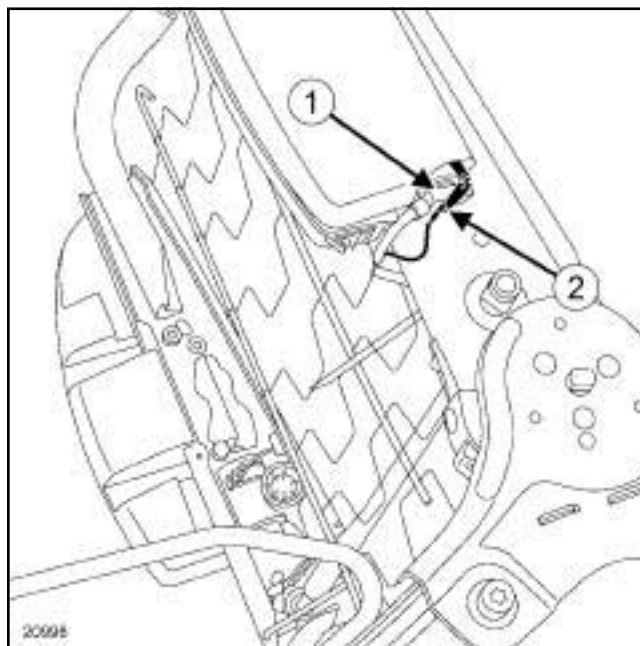
When this function is activated, all the trigger lines are inhibited and the airbag warning light on the instrument panel lights up continuously (ignition on).

#### IMPORTANT

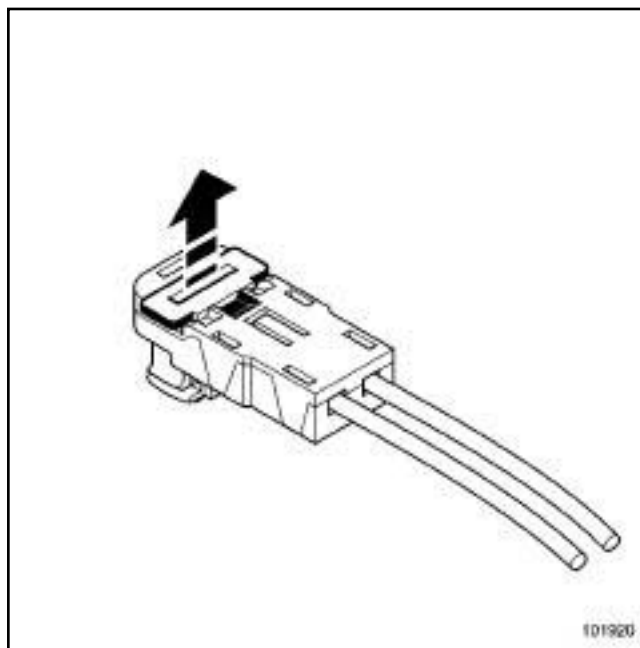
Never handle the pyrotechnic systems (pretensioners or airbags) near to a source of heat or naked flame - they may be triggered.

- Lock the airbag computer (see **Fault finding - Replacement of components**) (88C, Airbags and pretensioners).
- Switch off the ignition.
- Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page 80A-2) .
- Remove:
  - the complete front seat (see **Complete front seat: Removal - Refitting**) (75A, Front seat frames and runners),
  - the front seat back trim (see **Front seatback trim: Removal - Refitting**) (77A, Front seat trim).

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



20998

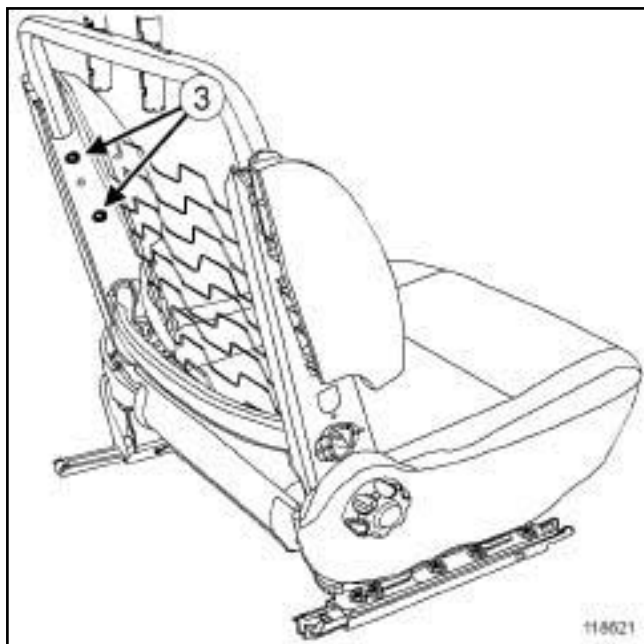


101920

- Disconnect:
  - the front side airbag connector (1) by unclipping the safety cover,
  - the earth terminal (2) .

## Front (chest-level) side airbag: Removal - Refitting

### FRONT SIDE AIRBAG



118621

- Remove:
  - the front side airbag nuts (3) ,
  - the front side airbag.

### REFITTING

#### I - REFITTING PREPARATION OPERATION

- 

#### IMPORTANT

After a seat belt pyrotechnic component is triggered, it is essential to replace certain parts.

(see **88C, Air bag and Pretensioners, Airbag and pretensioners: Precautions for the repair, page 88C-3**).

- Always replace the nuts for the front chest-level airbag.

#### II - REFITTING OPERATION FOR PART CONCERNED

- Refit:
  - the front chest-level side airbag,
  - the new nuts of the front side airbag.
- Torque tighten the **side airbag nuts (10 N.m)**.

#### IMPORTANT

To prevent the airbag triggering, connect the earth wire before the igniter connector.

- Connect:
  - the earth terminal,
  - the front side airbag connector.

#### III - FINAL OPERATION

- Refit:
  - the front seat back trim (see **Front seatback trim: Removal - Refitting**) (77A, Front seat trim),
  - the complete front seat (see **Complete front seat: Removal - Refitting**) (75A, Front seat frames and runners).
- Connect the battery (see **80A, Battery, Battery: Removal - Refitting, page 80A-2**).

#### IMPORTANT

To avoid a fault with or even triggering of pyrotechnic components (airbags or pretensioners), check the airbag computer using the diagnostic tool.

- Unlock the airbag computer (see **Fault finding - Replacement of components**) (88C, Airbag and pretensioners).

#### IMPORTANT

To eliminate the risk of any accident, do not reuse pyrotechnic components.

It is essential to destroy pretensioners or airbags before scrapping a vehicle or a part only.

(see **Airbags and pretensioners: Recycling - Destruction**).

# AIR BAG AND PRETENSIONERS

## Side impact sensor: Removal - Refitting

# 88C

### FRONT SIDE AIRBAG

#### Tightening torques

side impact sensor bolt	8 N.m
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#### IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88C, Air bag and Pretensioners, Airbag and pretensioners: Precautions for the repair, page 88C-3**).

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION



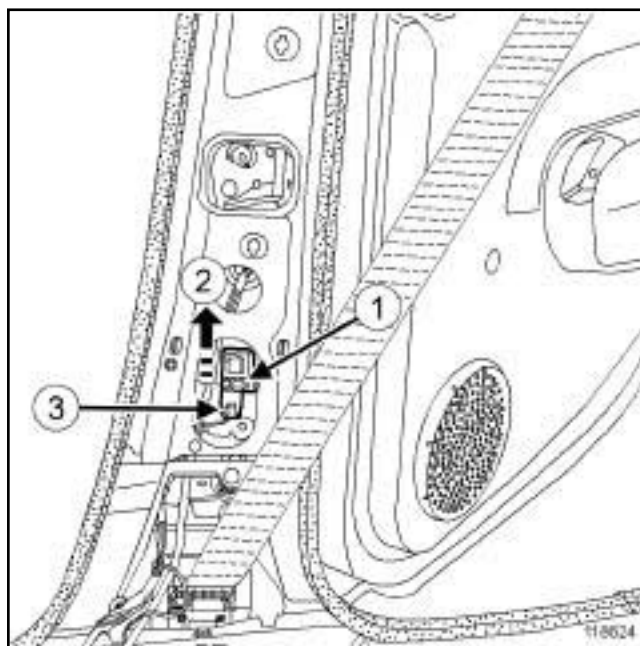
#### IMPORTANT

To avoid any risk of triggering when working on or near a pyrotechnic component (airbags or pretensioners), lock the airbag computer using the diagnostic tool.

When this function is activated, all the trigger lines are inhibited and the airbag warning light on the instrument panel lights up continuously (ignition on).

- Lock the airbag computer (see **Fault finding - Replacement of components**) (88C, Airbags and pretensioners).
- Switch off the ignition.
- Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting, page 80A-2**).
- Remove the B-pillar trim (see **B-pillar trim: Removal - Refitting**) (71A, Body internal trim).

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



118624

- Loosen the side impact sensor bolt (1) by 6 turns.
- Remove the side impact sensor from its housing at (2).
- Disconnect the connector (3) from the side impact sensor.

### REFITTING

#### I - REFITTING PREPARATION OPERATION

- parts always to be replaced: Side impact sensors**

#### II - REFITTING OPERATION FOR PART CONCERNED

- Connect the side impact sensor connector.
- Fit the side impact sensor.
- Torque tighten the **side impact sensor bolt (8 N.m)**.

#### III - FINAL OPERATION

- Refit the B-pillar trim (see **B-pillar trim: Removal - Refitting**) (71A, Body internal trim).

# AIR BAG AND PRETENSIONERS

## Side impact sensor: Removal - Refitting

**88C**

### FRONT SIDE AIRBAG

- ❑ Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-2**).

#### **IMPORTANT**

To avoid a fault with or even triggering of pyrotechnic components (airbags or pretensioners), check the airbag computer using the diagnostic tool.

- ❑ Unlock the airbag computer (see **Fault finding - Replacement of components**) (88C, Airbag and pretensioners).



# AIR BAG AND PRETENSIONERS

## Front seat belt buckle: Removal - Refitting

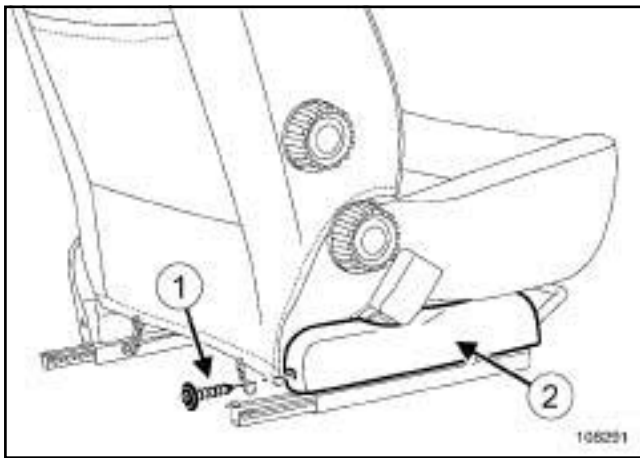
# 88C

### Tightening torques

the buckle nut	25 N.m
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## REMOVAL

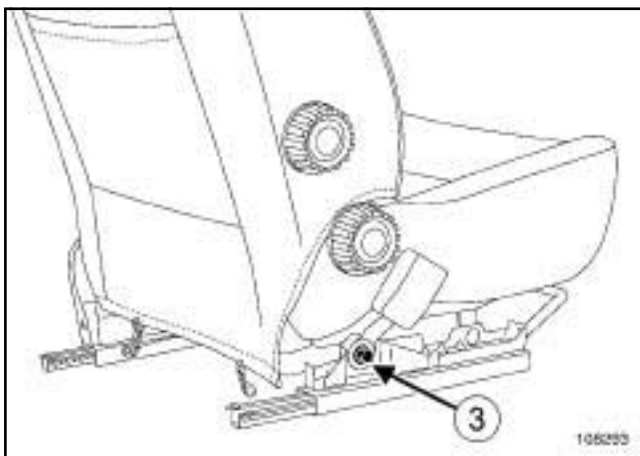
### I - REMOVAL PREPARATION OPERATION



108291

- Remove:
  - the bolt (1) ,
  - the casing (2) .

### II - OPERATION FOR REMOVAL OF PART CONCERNED



108293

- Remove:
  - the nut (3) ,
  - the seat belt buckle.

## REFITTING

### I - REFITTING PREPARATION OPERATION

- Coat the threads of the front seat belt buckle bolts with **HIGH STRENGTH THREAD LOCK** (see **Vehicle: Parts and consumables for the repair**) (MR 388, 04B, Parts and consumables).

### II - REFITTING OPERATION FOR PART CONCERNED

- Refit the buckle nut.
- Torque tighten **the buckle nut (25 N.m)**.

### III - FINAL OPERATION

- Refit:
  - the casing
  - the cover bolt.

# AIR BAG AND PRETENSIONERS

## Rear seat belt buckle: Removal - Refitting

# 88C

### Tightening torques

bolts of the rear seat belt stalks	21 N.m
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## REMOVAL

### I - REMOVAL PREPARATION OPERATION

- Remove the single unit rear bench seat base (see ).

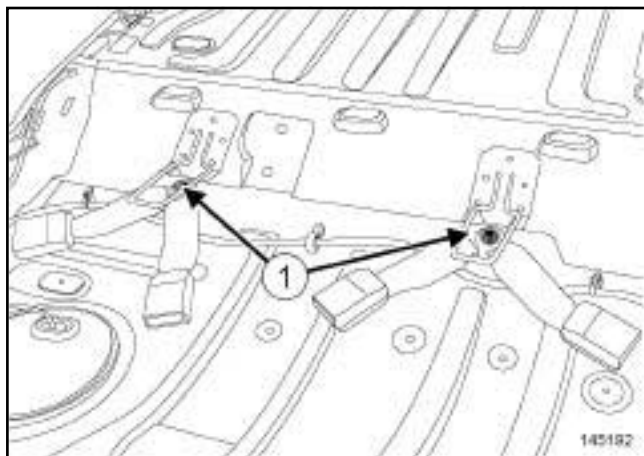
#### REAR BENCH SEAT

- Remove the single unit rear bench seatback (see ).

#### REAR BENCH FUNCTION

- Remove the 1/3 or 2/3 rear bench seatback (see ).

### II - REMOVAL OPERATION



145192

- Remove:
  - the bolts (1) ,
  - the stalks of the rear seat belts.

## REFITTING

### I - REFITTING PREPARATION OPERATION

- Coat the threads of the rear seat belt stalk bolts using **HIGH STRENGTH THREAD LOCK** (see **Vehicle: Parts and consumables for the repair**) (04B, Consumables - Products).

### II - REFITTING OPERATION

- Proceed in the reverse order to removal.
- Torque tighten the **bolts of the rear seat belt stalks (21 N.m)**.

# AIR BAG AND PRETENSIONERS

## Front side seat belt: Removal - Refitting

# 88C

### Equipment required

Diagnostic tool

### Tightening torques

bolts of the height adjustment mechanism **21 N.m**

inertia reel bolt **21 N.m**

bolt of the seat belt return mechanism **21 N.m**

bolt of the seat belt lower mounting **21 N.m**

### IMPORTANT

To avoid all risk of damage to the systems, apply the safety and cleanliness instructions and operation recommendations before carrying out any repair (see **88C, Air bag and Pretensioners, Air bag and pretensioners: Precautions for the repair**, page **88C-3**).

### IMPORTANT

Never handle the pyrotechnic systems (pretensioners or airbags) near to a source of heat or naked flame - they may be triggered.

### IMPORTANT

To eliminate the risk of any accident, do not reuse pyrotechnic components.

It is essential to destroy pretensioners or airbags before scrapping a vehicle or a part only (see **Airbags and pretensioners: Recycling - Destruction**).

### Note:

The seat belt must be handled by the inertia reel mechanism (risk of damaging the strap).

## REMOVAL

### I - REMOVAL PREPARATION OPERATION

#### WITH FRONT PRETENSIONER



#### IMPORTANT

To avoid any risk of triggering when working on or near a pyrotechnic component (airbags or pretensioners), lock the airbag computer using the diagnostic tool.

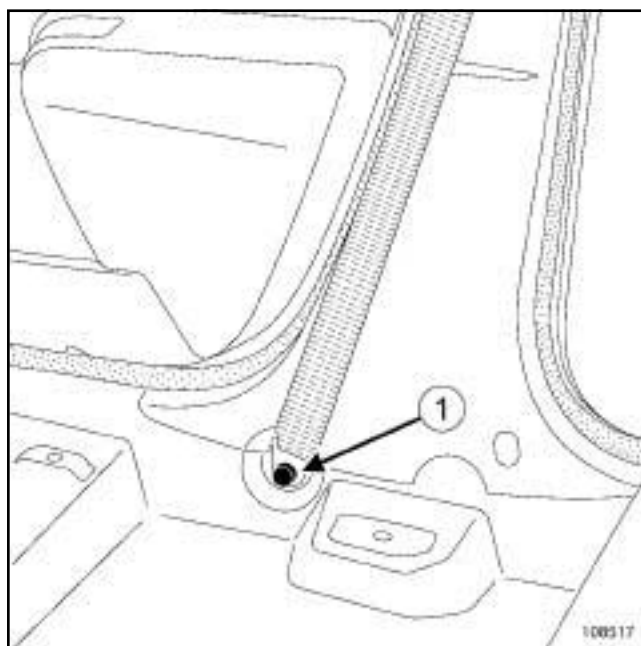
When this function is activated, all the trigger lines are inhibited and the airbag warning light on the instrument panel lights up continuously (ignition on).

- Lock the airbag computer using the **Diagnostic tool** (see **Fault finding - Replacement of components** (88C, Airbags and pretensioners).

- Switch off the ignition.

- Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-2**).

### II - OPERATION FOR REMOVAL OF PART CONCERNED



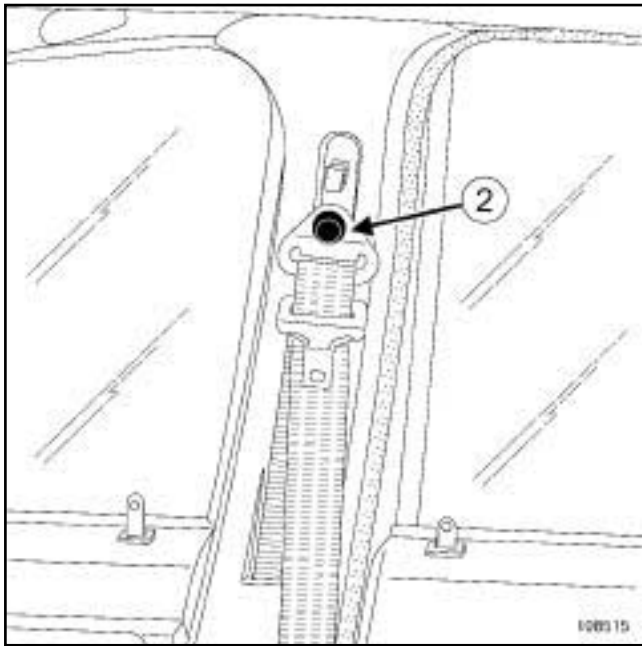
108517  
108517

- Remove:
  - the cover of the seat belt lower bolt,
  - the seat belt lower bolt (1).

# AIR BAG AND PRETENSIONERS

## Front side seat belt: Removal - Refitting

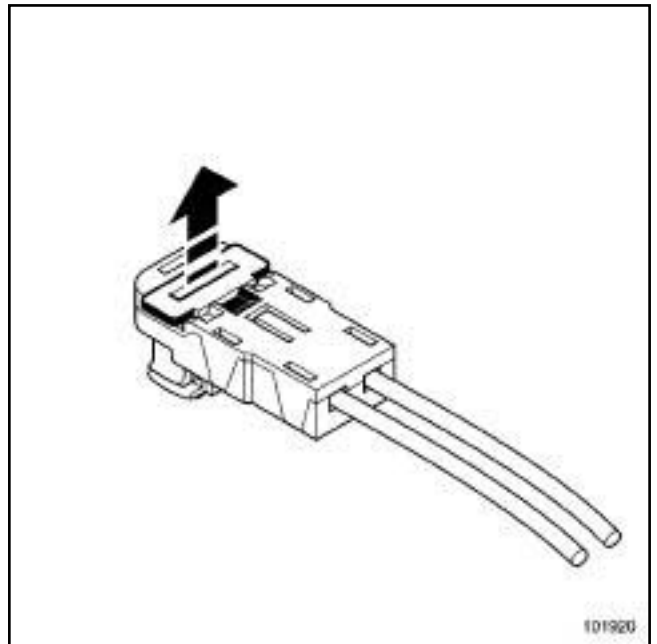
88C



108515

- Remove:
  - the cover of the seat belt upper bolt,
  - the seat belt upper bolt (2) .
- Remove the lower B-pillar trim (see **B-pillar trim: Removal - Refitting**) (71A, Body internal trim).

### WITH FRONT PRETENSIONER



101920

- 

#### WARNING

To prevent any risk of noise, premature wear, short circuits, etc. after the refitting operation, mark the wiring routing and how to connect the connectors.

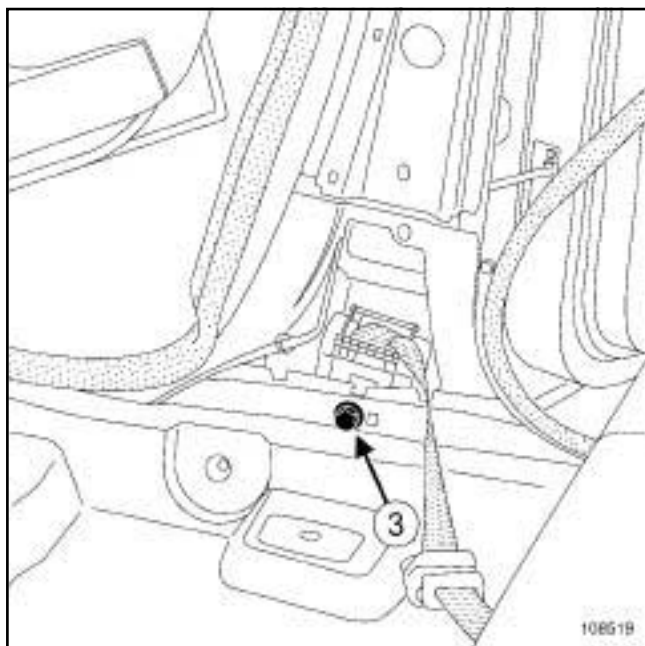
Mark the wiring routing at the front side seat belt inertia reel.

- Unclip the inertia reel connector safety clip.
- Disconnect the inertia reel connector.

# AIR BAG AND PRETENSIONERS

## Front side seat belt: Removal - Refitting

88C



108519

- Remove:
  - the bolt (3) from the inertia reel,
  - the inertia reel.
- Remove the height adjustment mechanism (depending on the vehicle equipment).

### REFITTING

#### I - REFITTING PREPARATION OPERATION

- parts always to be replaced: Front seat belt inertia reel bolt**
- Always replace the return mechanism bolts and the lower mounting bolts of the front side seat belt.

#### II - REFITTING OPERATION FOR PART CONCERNED

- Refit the height adjustment mechanism (depending on the vehicle equipment).
- Torque tighten the **bolts of the height adjustment mechanism (21 N.m)**.
- Refit:
  - the inertia reel,
  - the inertia reel bolt.
- Tighten to torque the **inertia reel bolt (21 N.m)**.

#### WITH FRONT PRETENSIONER

- Refit the wiring at the front side seat belt inertia reel in the position marked during removal
- Connect the inertia reel connector.
- Clip on the inertia reel connector safety clip.

- Refit:
  - the B-pillar trim (see **B-pillar trim: Removal - Refitting**) (71A, Body internal trim),

#### Note:

Check that the seat belt is not twisted between the inertia reel and the front side seat belt return mechanism.

Refit the front side seat belt return mechanism

- Torque tighten the **bolt of the seat belt return mechanism (21 N.m)**

#### Note:

Check that the seat belt is not twisted between the front side seat belt return mechanism and the front side seat belt lower mounting.

Refit the lower mounting for the front side seat belt.

- Torque tighten the **bolt of the seat belt lower mounting (21 N.m)**.

Refit:

- the cover of the seat belt upper bolt,
- the cover of the seat belt lower bolt.

# AIR BAG AND PRETENSIONERS

## Front side seat belt: Removal - Refitting

88C

### III - FINAL OPERATION

#### WITH FRONT PRETENSIONER

- Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-2**).

#### IMPORTANT

To avoid a fault with or even triggering of pyrotechnic components (airbags or pretensioners), check the airbag computer using the diagnostic tool.

- Unlock the airbag computer using the **Diagnostic tool** (see **Fault finding - Replacement of components**) (88C, Airbags and pretensioners).

#### IMPORTANT

To eliminate the risk of any accident, do not reuse pyrotechnic components.

It is essential to destroy pretensioners or airbags before scrapping a vehicle or a part only (see **Airbags and pretensioners: Recycling - Destruction**).

### IV - CHECKING AFTER REPAIR

- Check the correct operation by unrolling the front side seat belt by 300 mm and letting it return twice
- Check that the front side seat belt locks correctly by pulling the front side seat belt strap with increasing speed 200 to 300 mm maximum until the inertia reel locks.

#### WITH FRONT PRETENSIONER

- Switch on the ignition.
- Check that there are no faults on the instrument panel.

# AIR BAG AND PRETENSIONERS

## Rear side seat belt: Removal - Refitting

88C

### Tightening torques

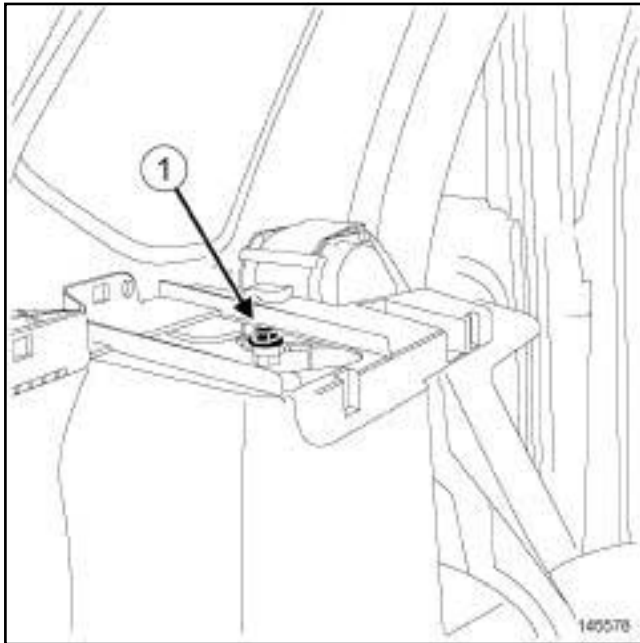
rear side seat belt bolts	21 N.m
---------------------------	--------

## REMOVAL

### I - REMOVAL PREPARATION OPERATION

- Remove (see ) :
  - the rear bench seat base,
  - the rear side seat belt lower bolt,
  - the single unit rear bench seatback.
- Remove the parcel shelf structure trim (see **Interior body side trim assembly: Exploded view**) .

### II - REMOVAL OPERATION



145578

- Remove:
  - the rear side seat belt inertia reel bolt (1) ,
  - the rear side seat belt.

## REFITTING

### I - REFITTING PREPARATION OPERATION

- Coat the threads of the side seat belt bolts using **HIGH STRENGTH THREAD LOCK** (see **Vehicle: Parts and consumables for the repair**) (04B, Consumables - Products).


### II - REFITTING OPERATION

- Proceed in the reverse order to removal.
- Torque tighten the **rear side seat belt bolts (21 N.m)**.

# AIR BAG AND PRETENSIONERS

## Rear centre seat belt: Removal - Refitting

# 88C

Tightening torques 	
rear centre seat belt bolt	21 N.m
rear centre seat belt guide bolt	21 N.m
seat belt return mechanism bolt	21 N.m

### REMOVAL

#### REMOVAL PREPARATION OPERATION

##### 2-POINT MIDDLE/REAR SEAT BELT

Remove:

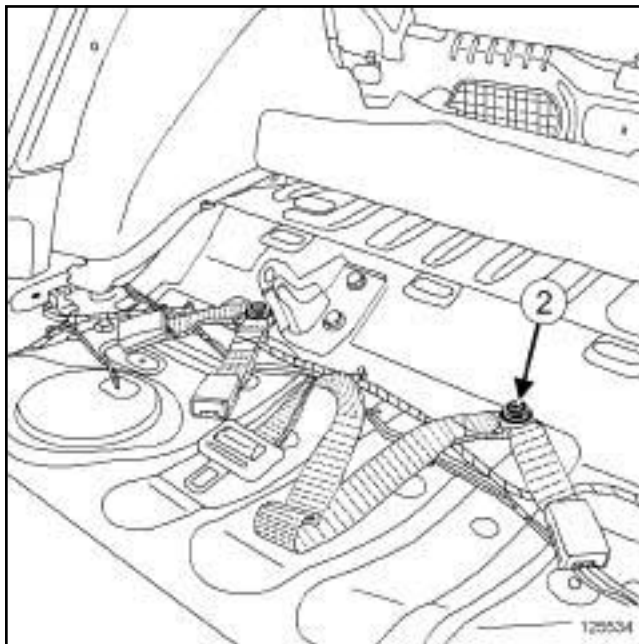
- the single unit rear bench seat base (see **Single unit rear bench seat base: Removal - Refitting**) (76A, Rear seat frames and runners),
- the 1/3 or 2/3 rear bench seatback (see **1/3 and 2/3 rear bench seatback: Removal - Refitting**) (76A, Rear seat frames and runners) or the single unit rear bench seatback (see **Single unit rear bench seatback: Removal - Refitting**) (76A, Rear seat frames and runners).

##### 3-POINT MIDDLE/REAR SEAT BELT

- Pull down the 2/3 rear bench seatback (see **1/3 and 2/3 rear bench seatback: Removal - Refitting**) (76A, Rear seat frames and runners) or the single unit rear bench seatback (see **Single unit rear bench seatback: Removal - Refitting**) (76A, Rear seat frames and runners).
- Remove the rear quarter panel trim (see **Quarter panel trim: Removal - Refitting**) (71A, Body internal trim).

#### OPERATION FOR REMOVAL OF PART CONCERNED

##### 2-POINT MIDDLE/REAR SEAT BELT



125534

Remove:

- the rear centre seat belt bolt (2) ,
- the rear centre seat belt.

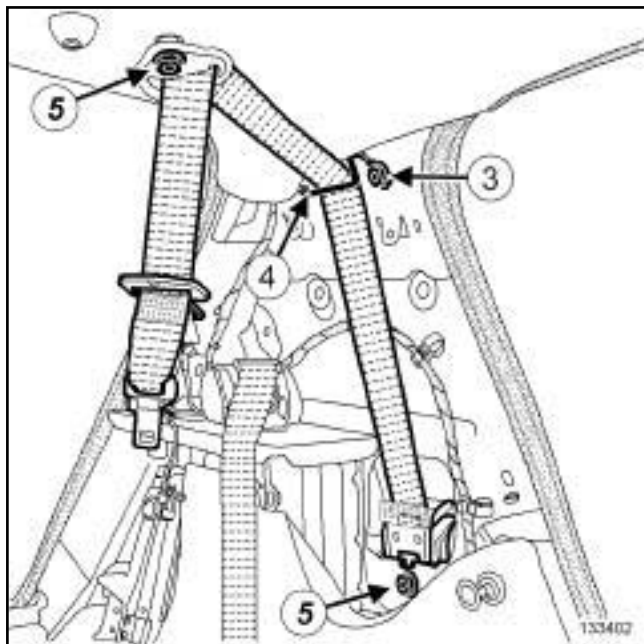


# AIR BAG AND PRETENSIONERS

## Rear centre seat belt: Removal - Refitting

# 88C

### 3-POINT MIDDLE/REAR SEAT BELT



133402

#### Remove:

- the rear centre seat belt guide bolt (3) ,
- the rear centre seat belt guide (4) ,
- the rear centre seat belt bolts (5) ,
- the rear centre seat belt.

## REFITTING

### I - REFITTING PREPARATION OPERATION

#### 3-POINT MIDDLE/REAR SEAT BELT

- parts always to be replaced: rear centre seat belt mounting**
- Coat the threads of the rear centre seat belt return mechanism bolts with **HIGH STRENGTH THREAD LOCK** (see **Vehicle: Parts and consumables for the repair**) (04B, Parts and consumables).

#### 2-POINT MIDDLE/REAR SEAT BELT

- parts always to be replaced: rear centre seat belt mounting**

### II - REFITTING OPERATION FOR PART CONCERNED

- Refit:
  - the rear centre seat belt,
  - the rear centre seat belt bolt.
- Torque tighten the **rear centre seat belt bolt (21 N.m)**.

#### 3-POINT MIDDLE/REAR SEAT BELT

- 

#### Note:

Check that the seat belt is not twisted between the inertia reel and the rear centre seat belt return mechanism.

- Refit:
  - the rear centre seat belt guide,
  - the rear centre seat belt guide bolt.
- Torque tighten the **rear centre seat belt guide bolt (21 N.m)**.
- Refit the rear centre seat belt return mechanism.
- Torque tighten the **seat belt return mechanism bolt (21 N.m)**.

### III - FINAL OPERATION

#### 2-POINT MIDDLE/REAR SEAT BELT

- Refit:
  - the 1/3 or 2/3 rear bench seatback (see **1/3 and 2/3 rear bench seatback: Removal - Refitting**) (76A, Rear seat frames and runners) or the single unit rear bench seatback (see **Single unit rear bench seatback: Removal - Refitting**) (76A, Rear seat frames and runners),

# AIR BAG AND PRETENSIONERS

## Rear centre seat belt: Removal - Refitting

88C

- the single unit rear bench seat base (see **Single unit rear bench seat base: Removal - Refitting**) (76A, Rear seat frames and runners).

### 3-POINT MIDDLE/REAR SEAT BELT

- Refit the rear quarter panel trim (see **Quarter panel trim: Removal - Refitting**) (71A, Body internal trim).
- Fit the 2/3 rear bench seatback (see **1/3 and 2/3 rear bench seatback: Removal - Refitting**) (76A, Rear seat frames and runners) or the single unit rear bench seatback (see **Single unit rear bench seatback: Removal - Refitting**) (76A, Rear seat frames and runners).

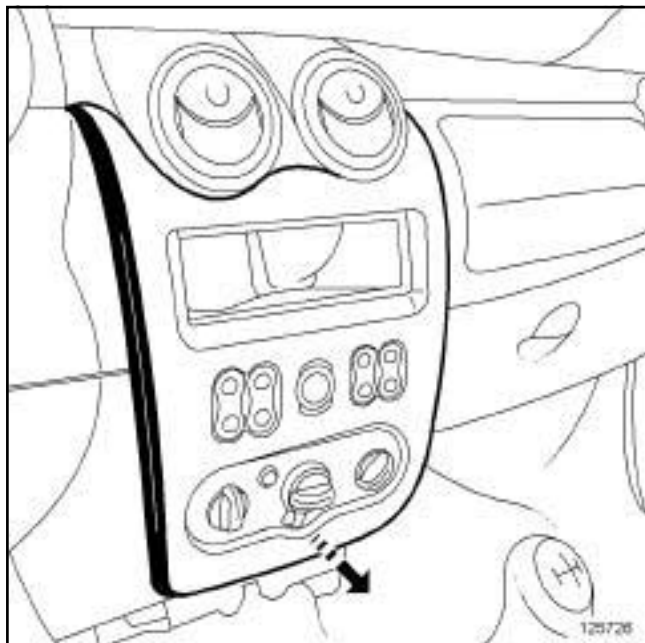
## Seat belt reminder warning light: Removal - Refitting

WITH SEAT BELT NOT SECURED WARNING or ALOUCP

### REMOVAL

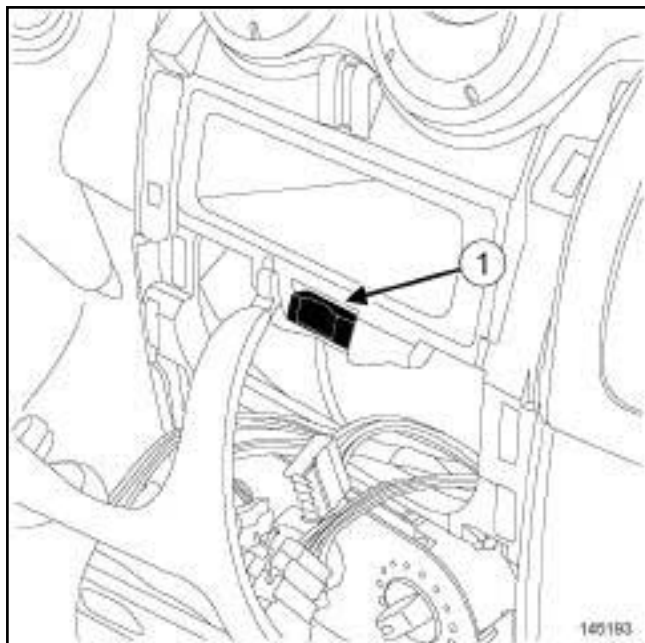
#### REMOVAL OPERATION

- Switch off the ignition.



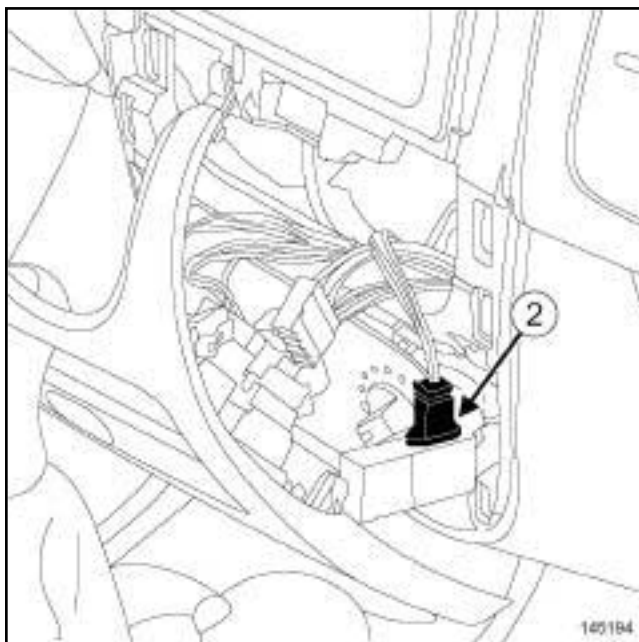
125726

- Unclip the central trim starting at the bottom.
- Remove the dashboard central trim.



145193

- Unclip the seat belt reminder warning light (1) .



145194

145194

- Disconnect the connector from the seat belt reminder warning light (2) .

### REFITTING

#### REFITTING OPERATION

- Proceed in the reverse order to removal.

#### CHECKING AFTER REPAIR

- Switch on the ignition.
- Check that the seat belt reminder warning light illuminates.
- Fasten the seat belts.
- Check that the warning light goes out.