

# RENAULT

## 8 Electrical equipment

80A BATTERY

80B HEADLIGHTS

80C XENON BULBS

81A REAR LIGHTING

81B INTERIOR LIGHTING

81C FUSES

82A ENGINE IMMOBILISER

82B HORN

82C ALARM

83A INSTRUMENT PANEL

83C ON-BOARD TELEMATICS SYSTEM

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**X45**

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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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- 83D CRUISE CONTROL**
- 84A CONTROL - SIGNALS**
- 85A WIPING - WASHING**
- 86A RADIO**
- 87B PASSENGER COMPARTMENT CONNECTION UNIT**
- 87C OPENING ELEMENT MANAGEMENT**
- 87D ELECTRIC WINDOWS - SUNROOF**
- 87F PARKING DISTANCE CONTROL**
- 87G ENGINE COMPARTMENT CONNECTION UNIT**
- 88A WIRING HARNESS**
- 88C AIR BAG AND PRETENSIONERS**
- 88D DRIVER'S POSITION**

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**X45**

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# KOLEOS - Section 8

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## Battery: Precautions for the repair

### I - SAFETY

#### 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.

#### 1 - DANGER: RISK OF ACID WHEN HANDLING AND WHEN MOUNTING IS INCORRECTLY TIGHTENED

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.

#### 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

Poor contact may cause starting or charging faults, create sparks and cause the battery to explode.

When a battery is charging, oxygen and hydrogen are produced. Gas formation is at its maximum when the battery is completely charged. The quantity of gas produced is proportional to the intensity of the charging current.

The oxygen and hydrogen mix in the free space on the surface of the plates which forms an explosive mixture.

This mixture is highly 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 - CLEANLINESS

Check that there is no salt leakage (sulphation) on the battery terminals.

Clean the battery terminals if salt has accumulated (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**).

### III - 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.

When refitting the battery or every time it has been disconnected, carry out some reprogramming without the diagnostic tool, so that the vehicle operates correctly (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**).

**BATTERY**  
**Battery: Precautions for the repair**

---

**80A**



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# BATTERY

## Battery: Removal - Refitting

# 80A

Tightening torques 	
battery mounting nuts	5 N.m
positive battery terminal nut	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:

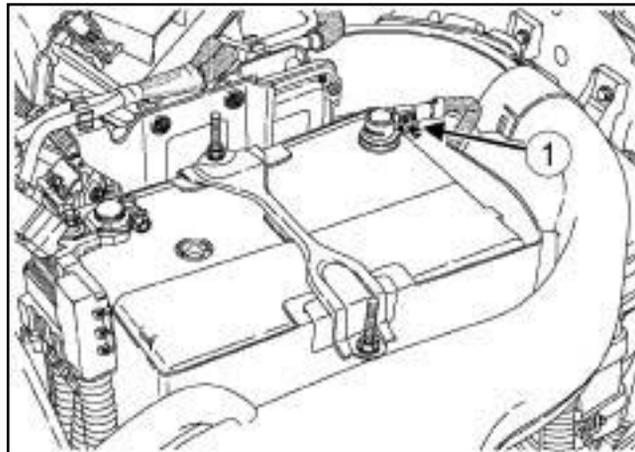
- wait for the motor-driven fan assembly to stop,
- wait for the computer to finish saving (1 minute).

### 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

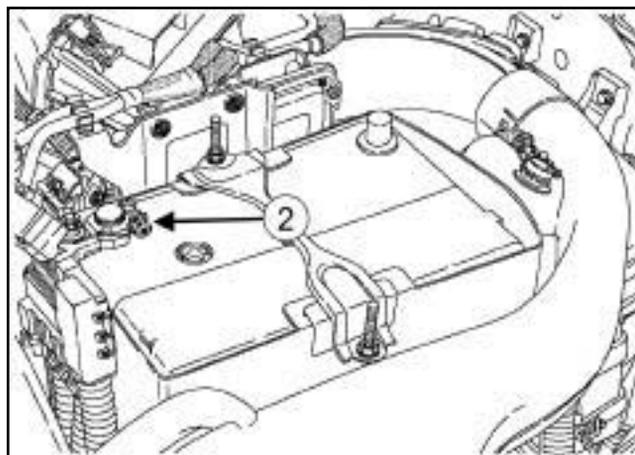
### 1 - DISCONNECTION



130833

- Undo the negative battery terminal nut (1).
- Disconnect the negative wiring from the negative battery terminal.

### 2 - REMOVAL



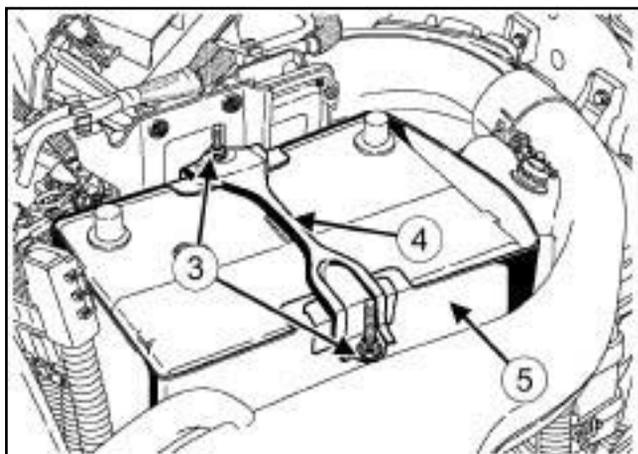
130834

- Undo the positive battery terminal nut (2).
- Disconnect the positive wiring from the positive battery terminal.

# BATTERY

## Battery: Removal - Refitting

# 80A



130835

- Loosen the battery mounting nuts (3) .
- Remove:
  - the battery mounting (4) ,
  - the battery cover (5) ,
  - the battery,
  - the battery lower cover.
- In the event of a replacement operation, perform the necessary checks (see **Checking the charge circuit: Tests**) (Technical Note 6014A, 16A, Starting and charging).

## REFITTING

### I - REFITTING PREPARATION OPERATION

- Check the battery (see **Battery: Check**) (Technical Note 6002A, 80A, Battery).

### II - REFITTING OPERATION FOR PART CONCERNED

#### 1 - REFITTING

- Fit the battery lower cover.
- Refit:
  - the battery,
  - the battery cover,
  - the battery mounting.
- Torque tighten the **battery mounting nuts (5 N.m)**.

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

#### WARNING

Incorrect tightening could cause heating of contacts, starting or charging faults, sparking, or could cause the battery to explode (see **80A, Battery, Battery: Precautions for the repair, page 80A-1**) .

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

### 2 - CONNECTION

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

#### WARNING

Incorrect tightening could cause heating of contacts, starting or charging faults, sparking, or could 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)**.

### III - FINAL OPERATION

- 

#### Note:

When refitting the battery and after every time it has been disconnected for longer than **3 seconds**, it may be necessary to carry out some operations without the diagnostic tool, so that the vehicle operates correctly.

- If the battery is disconnected for more than 10 seconds, reinitialise the electric windows: raise all the windows to their upper stop and keep the raise button pressed in this position for at least **3 seconds**.
- If the battery is disconnected for more than 5 seconds: reinitialise the rain and light sensor: perform key ON, key OFF.

M9R

### Tightening torques

battery tray bolts	10 N.m
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### IMPORTANT

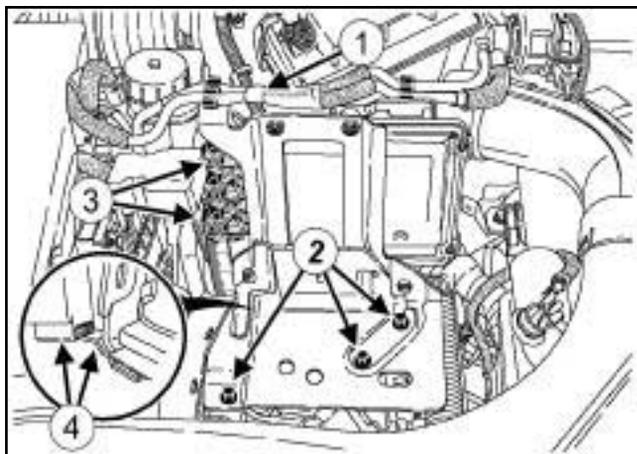
Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **80A, Battery, Battery: Precautions for the repair**, page **80A-1**).

## REMOVAL

### I - REMOVAL PREPARATION OPERATION

- Remove the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**).

### II - OPERATION FOR REMOVAL OF PART CONCERNED



130357

- Unclip the hose (1) from the turbocharging pressure regulator.
- Remove the bolts (2) from the battery tray.
- Disconnect the connectors (3) from the diesel injection computer.
- Unclip:
  - the wiring,
  - the wiring bracket (4) from the battery tray.
- Remove:
  - the battery tray - diesel injection computer assembly,

- the diesel injection computer from the battery tray (see **Diesel injection computer: Removal - Refitting**) (13B, Diesel injection).

## REFITTING

### I - REFITTING OPERATION FOR PART CONCERNED

- Refit:
  - the diesel injection computer on the battery tray (see **Diesel injection computer: Removal - Refitting**) (13B, Diesel injection),
  - the battery tray - diesel injection computer assembly.
- Clip:
  - the wiring bracket onto the battery tray,
  - the wiring.
- Connect the diesel injection computer connectors.
- Refit the battery tray bolts.
- Torque tighten the **battery tray bolts (10 N.m)**.
- Clip on the turbocharging pressure regulator hose.

### II - FINAL OPERATION.

- Refit the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**).

## Battery tray: Removal - Refitting

2TR

### Tightening torques

battery tray bolts	21 N.m
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### IMPORTANT

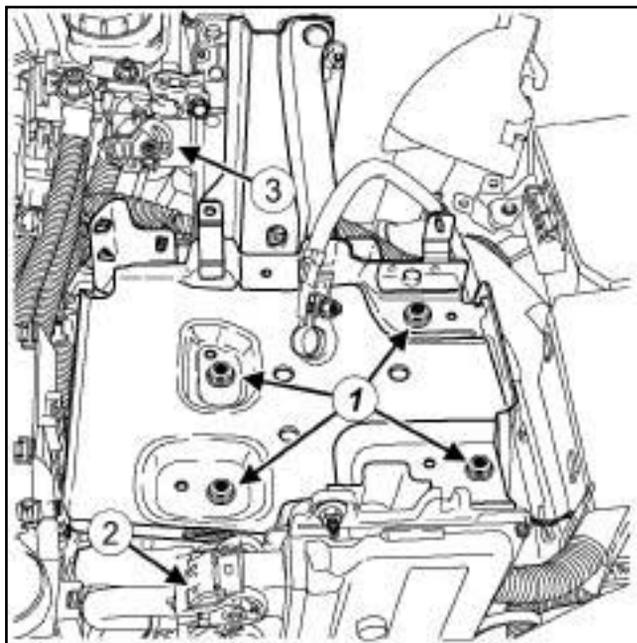
Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **80A, Battery, Battery: Precautions for the repair**, page **80A-1**).

## REMOVAL

### I - REMOVAL PREPARATION OPERATION

- Remove:
  - the air inlet sleeve (see **Air filter unit: Removal - Refitting**) (12A, Fuel mixture),
  - the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**).

### II - OPERATION FOR REMOVAL OF PART CONCERNED



130358

- Remove the bolts (1) from the battery tray.
- Disconnect:
  - the fuel injection computer connectors (2),
  - the gearbox computer connector (3).

- Unclip the wiring.
- Remove:
  - the battery tray - fuel injection computer - gearbox computer assembly,
  - the fuel injection computer from the battery tray (see **Petrol injection computer: Removal - Refitting**) (17B, Petrol injection),
  - the gearbox computer from the battery tray (see **Automatic gearbox converter: Removal - Refitting**) (23A, Automatic gearbox).

## REFITTING

### I - REFITTING OPERATION FOR PART CONCERNED

- Refit:
  - the gearbox computer on the battery tray, (see **Automatic gearbox converter: Removal - Refitting**) (23A, Automatic gearbox).
  - the fuel injection computer on the battery tray (see **Petrol injection computer: Removal - Refitting**) (17B, Petrol injection),
  - the battery tray - fuel injection computer - gearbox computer assembly.

- Attach the wiring.
- Connect:
  - the gearbox computer connector,
  - the petrol injection computer connectors.

- Refit the battery tray bolts.
- Torque tighten the **battery tray bolts (21 N.m)**.

### II - FINAL OPERATION.

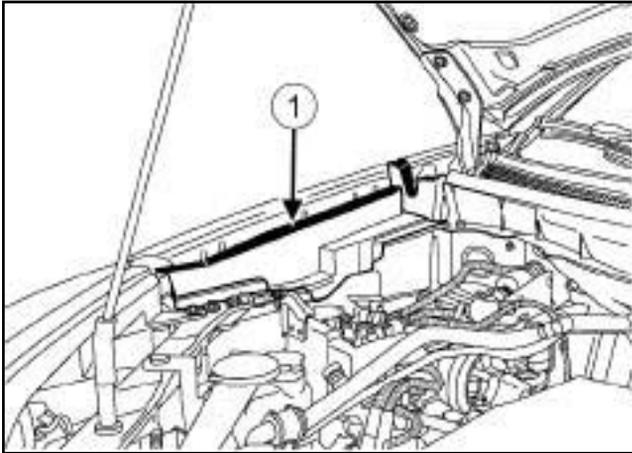
- Refit:
  - the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**),
  - the air inlet sleeve (see **Air filter unit: Removal - Refitting**) (12A, Fuel mixture).

## Headlight: 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: Removal - Refitting**) (55A, Exterior protection).



130308

- Remove the trim (1) .

#### DISCHARGE LAMPS

##### IMPORTANT

To prevent eye injuries:

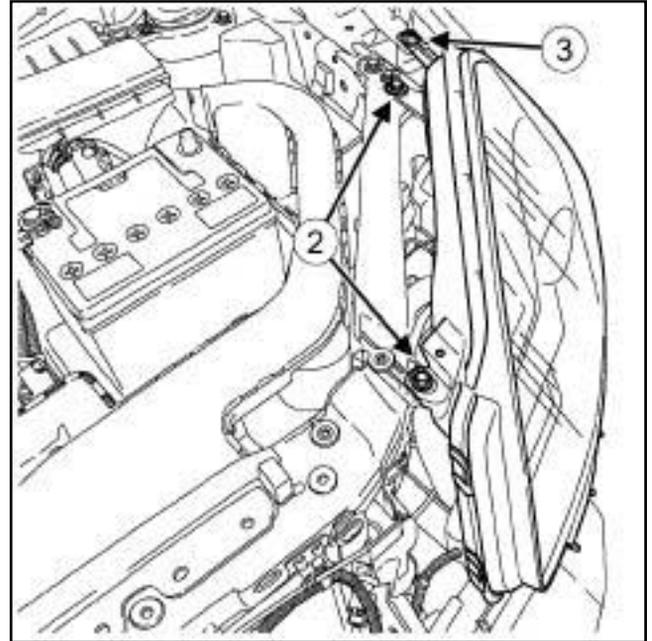
- do not look at a discharge bulb when lit (voltage when lit **20000 V**),
- do not light a bulb which has not been fitted into its headlight.

##### IMPORTANT

To prevent burns, wait until the « computer - power unit » assembly has cooled before removing them.

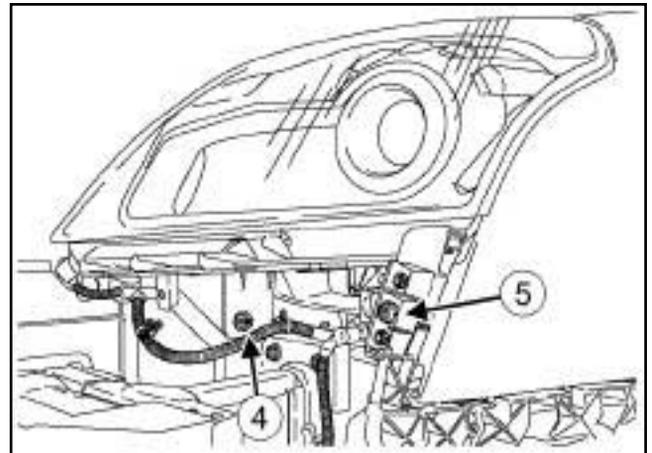
- Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**) .

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



130359

- Remove:
  - the headlight upper bolts (2) ,
  - the clip (3) .



130360

- Remove:
  - the headlight lower bolt (4) ,
  - the headlight lower nut (5) .
- Disconnect the headlight connectors.
- Remove the headlight.

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## Headlight: Removal - Refitting

## REFITTING

## I - REFITTING PREPARATION OPERATION

**WARNING**

To avoid any humidity getting into the headlight, check there are no cracks on the headlight before carrying out the repair.

Replace all cracked headlights.

## II - REFITTING OPERATION FOR PART CONCERNED

 Connect the headlight connectors. Refit:

- the headlight,
- the clip,
- the headlight lower nut,
- the headlight lower bolt,
- the headlight upper bolts.

## III - FINAL OPERATION

 Refit the front bumper (see **Front bumper: Removal - Refitting**) (MR 416, 55A, Exterior protection).**DISCHARGE LAMPS** Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**). Adjust the headlight beam (see **80B, Headlights, Headlight: Adjustment**, page **80B-3**).

# HEADLIGHTS

## Headlight: Adjustment

# 80B

WITHOUT DISCHARGE LAMPS

### Equipment required

headlight adjustment and checking tool

## ADJUSTMENT

### I - PREPARATION OPERATION FOR CHECK

- Position the vehicle on a flat, horizontal work surface, without applying the parking brake.
- Check and inflate the tyres (see **Tyre pressure: Identification**) (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 during the operation.

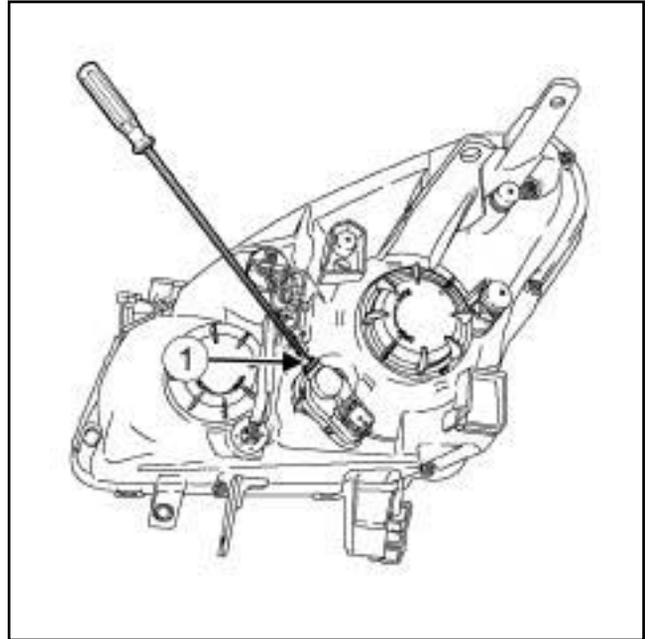
- Position the headlight beam remote adjustment control to "0".
- Switch on the dipped headlights.

### II - CHECKING OPERATION

- Place a tool **headlight adjustment and checking tool** set to **-1.2%** in front of the vehicle (see **Equipment instructions**).
- Check the headlight beam adjustment using the tool **headlight adjustment and checking tool** (see **Equipment instructions**).

### III - ADJUSTMENT OPERATION

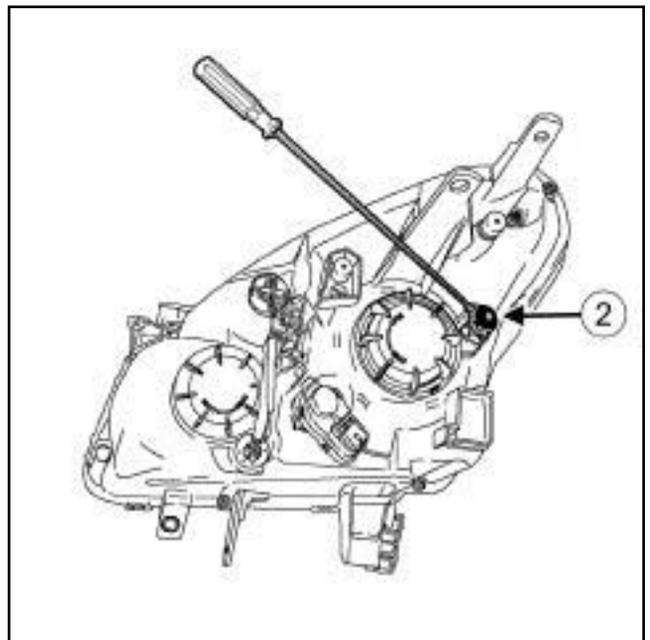
#### 1 - Vertical adjustment



131350

- Use the **headlight adjustment and checking tool** to vertically adjust the headlight by turning the bolt (1).

#### 2 - Horizontal adjustment



131351

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

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# HEADLIGHTS

## Headlight: Adjustment

**80B**

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WITHOUT DISCHARGE LAMPS

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### IV - FINAL OPERATION.

- Close the bonnet.

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# HEADLIGHTS

## Headlight: Adjustment

# 80B

DISCHARGE LAMPS

### Equipment required

headlight adjustment and checking tool

## ADJUSTMENT

### I - PREPARATION OPERATION FOR CHECK

- Put the vehicle on a flat, horizontal work surface, without applying the parking brake.
- Check and inflate the tyres (see **Tyre pressure: Identification**) (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 during the operation.

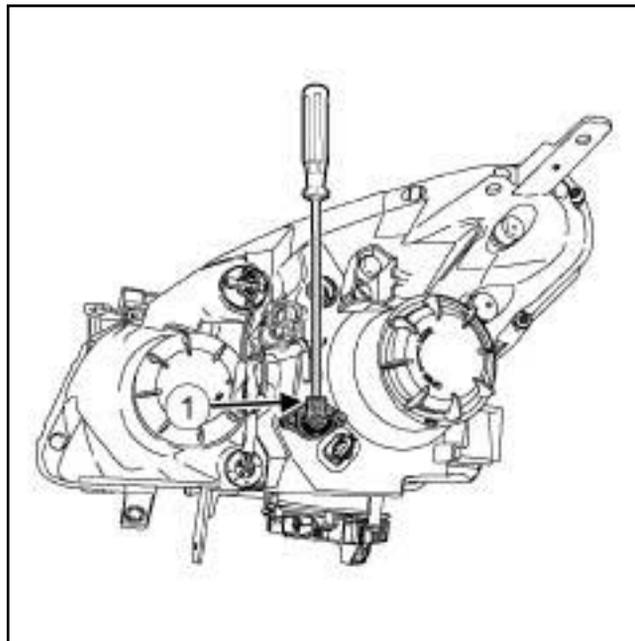
- Switch on the dipped headlights.

### II - CHECKING OPERATION

- Place a tool **headlight adjustment and checking tool** set to **-1.2%** in front of the vehicle (see **Equipment instructions**).
- Check the headlight beam adjustment using the tool **headlight adjustment and checking tool** (see **Equipment instructions**).

### III - ADJUSTMENT OPERATION

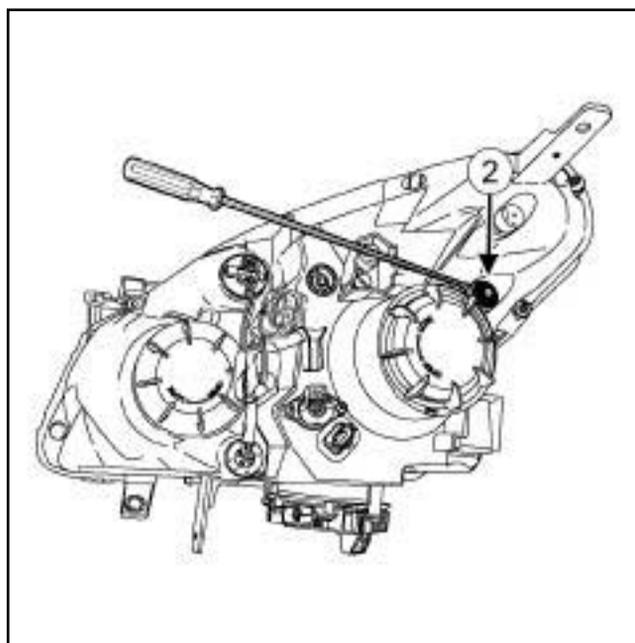
#### 1 - Vertical adjustment



131352

- Use the **headlight adjustment and checking tool** to vertically adjust the headlight by turning the bolt (1).

#### 2 - Horizontal adjustment



131353

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

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# HEADLIGHTS

## Headlight: Adjustment

**80B**

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DISCHARGE LAMPS

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### IV - FINAL OPERATION.

- Close the bonnet.

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## Front lighting: List and location of components

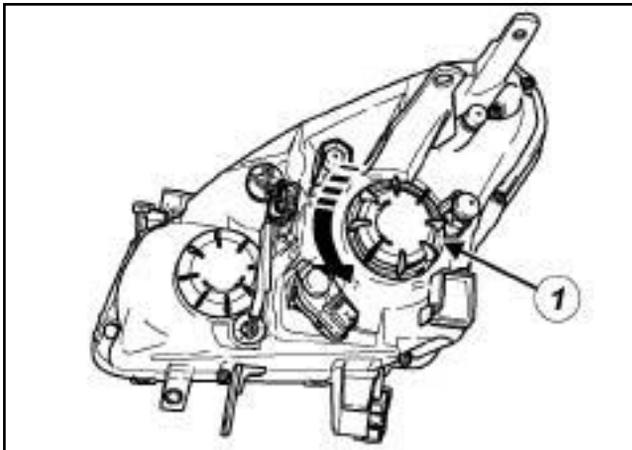
WITHOUT DISCHARGE LAMPS

### I - LIST OF COMPONENTS

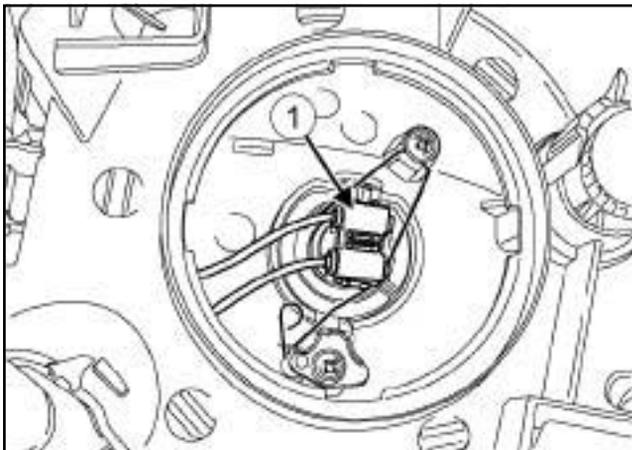
No.	Description
(1)	Main beam headlight bulbs
(2)	Dipped beam headlight bulb
(3)	Side light bulbs
(4)	Direction indicator bulb
(5)	Front fog light
(6)	Side repeater
(7)	Vertical adjusting bolt
(8)	Horizontal adjusting bolt

### II - LOCATION OF COMPONENTS

#### 1 - Main beam headlight bulbs

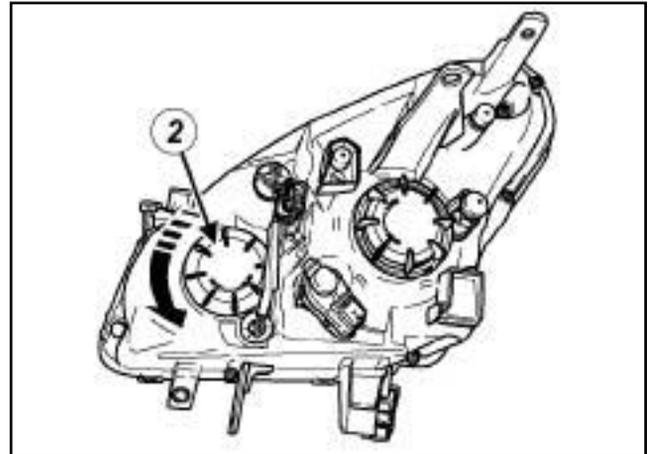


131358

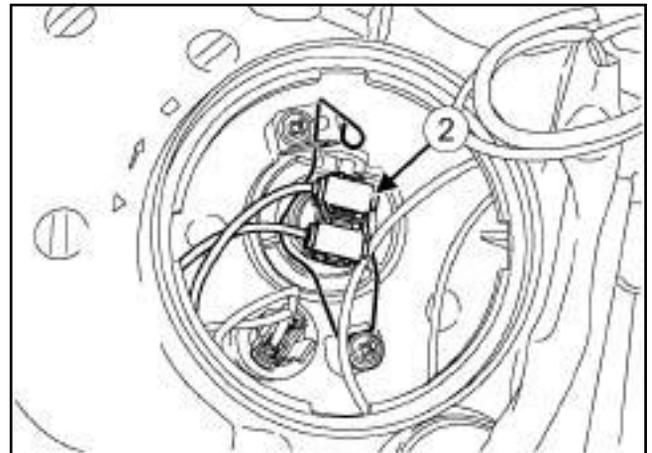


131359

#### 2 - Dipped beam headlight bulb

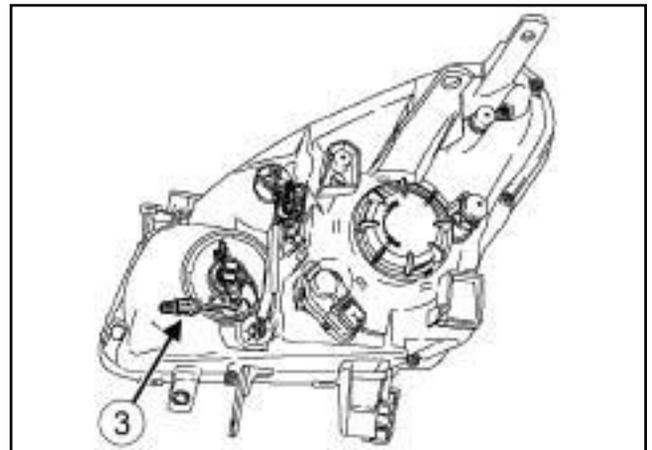


131360



131361

#### 3 - Side light bulbs



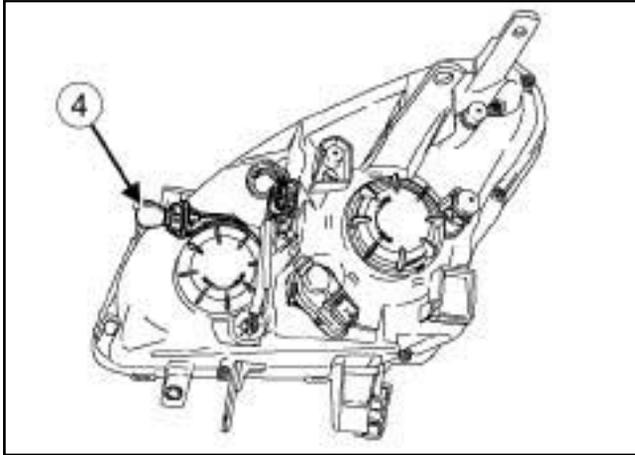
131357

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## Front lighting: List and location of components

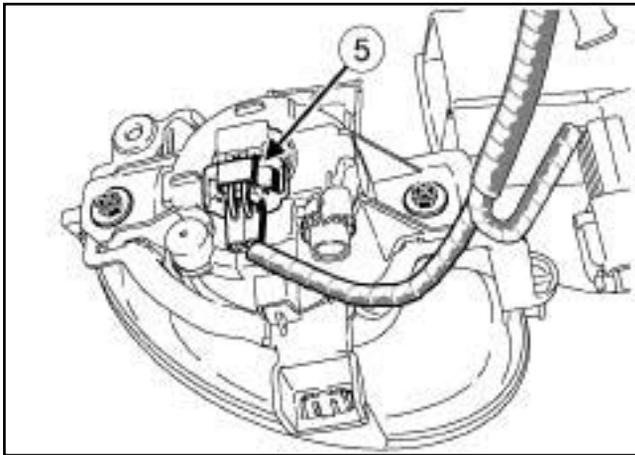
WITHOUT DISCHARGE LAMPS

4 - Direction indicator bulb



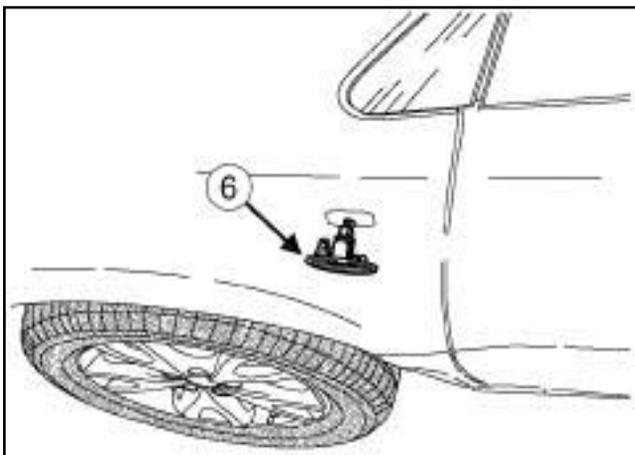
131355

5 - Front fog light



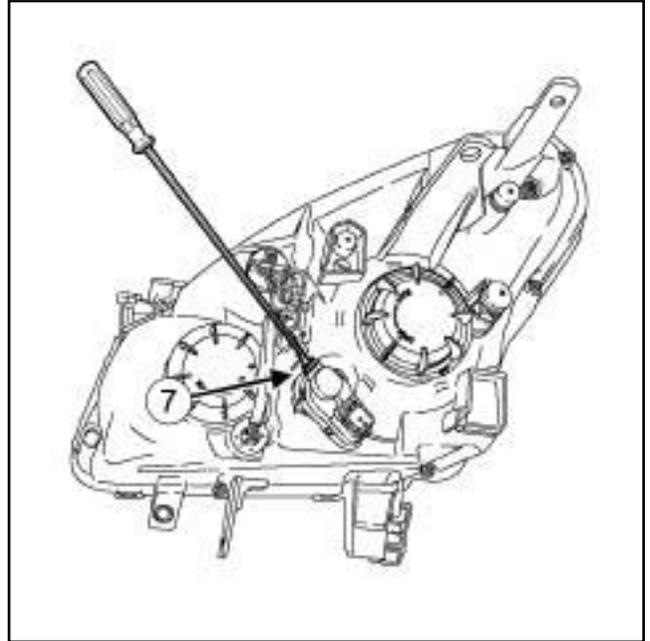
130837

6 - Side repeater



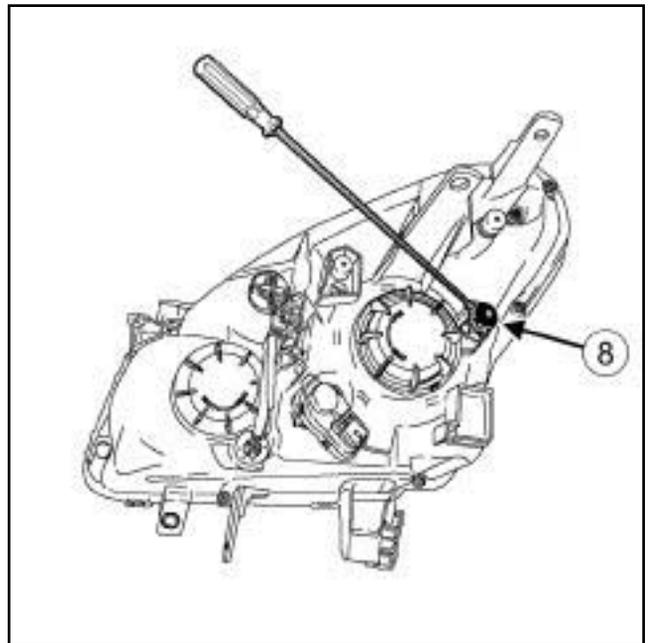
131732

7 - Vertical adjusting bolt



131350

8 - Horizontal adjusting bolt



131351

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## Front lighting: List and location of components

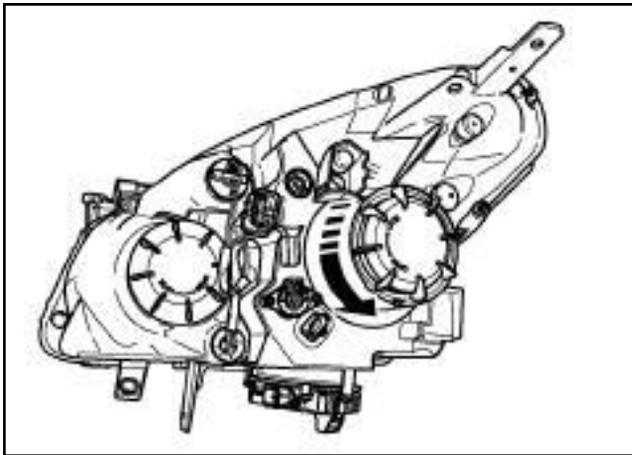
### DISCHARGE LAMPS

#### I - LIST OF COMPONENTS

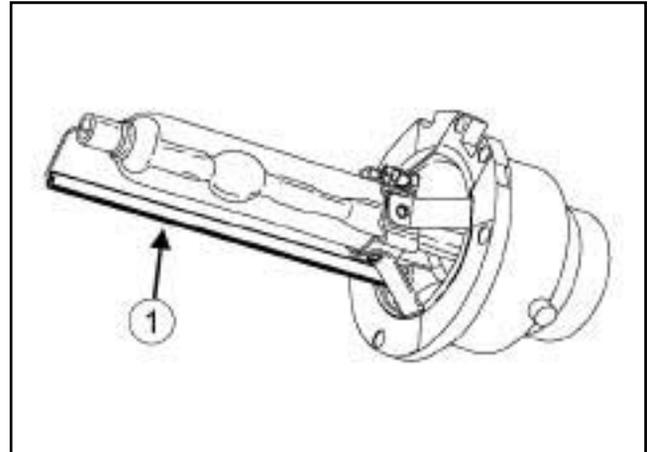
No.	Description
(1)	Discharge bulb
(2)	Cornering light bulb
(3)	Side light bulbs
(4)	Direction indicator bulb
(5)	High voltage unit
(6)	Cornering lights computer
(7)	Headlight adjustment rear sensor
(8)	Side repeater
(9)	Vertical adjusting bolt
(10)	Horizontal adjusting bolt

#### II - LOCATION OF COMPONENTS

##### 1 - Discharge bulb

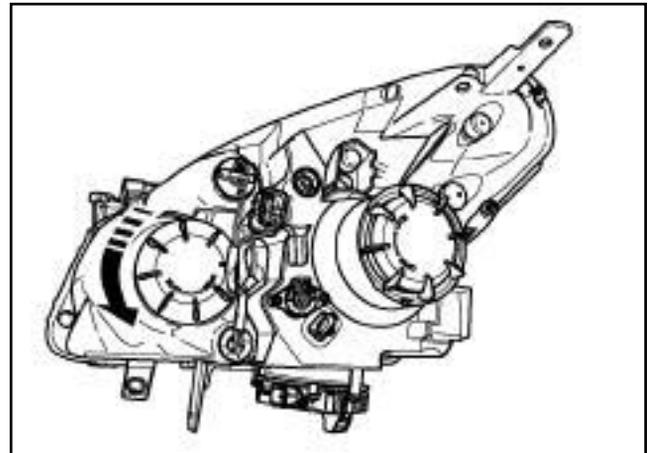


131723

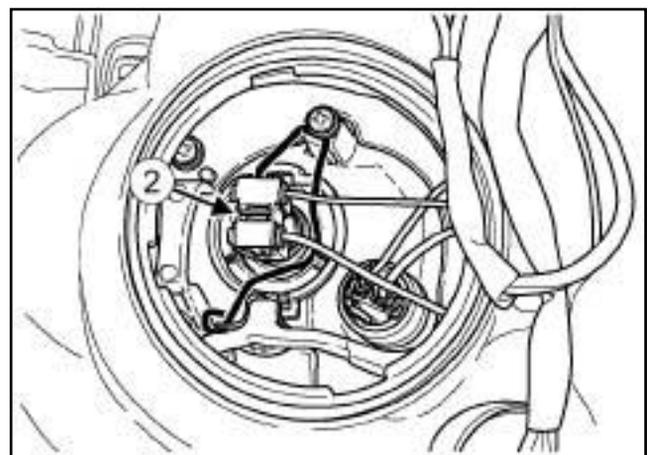


131724

##### 2 - Cornering light bulb



131725



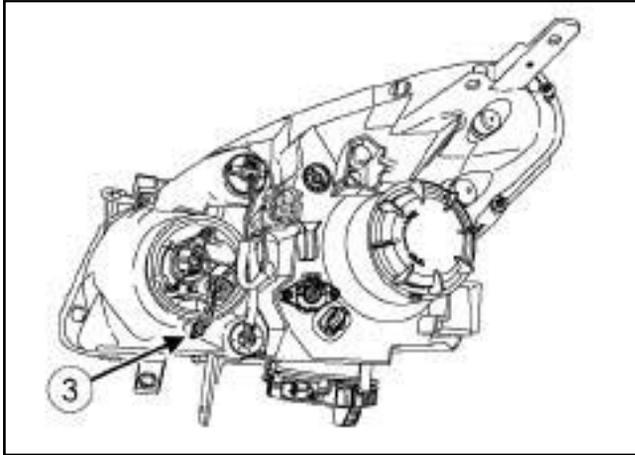
131726

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## Front lighting: List and location of components

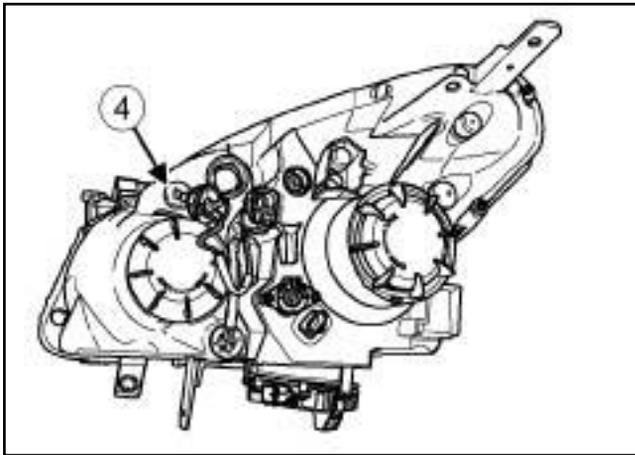
### DISCHARGE LAMPS

3 - Side light bulbs



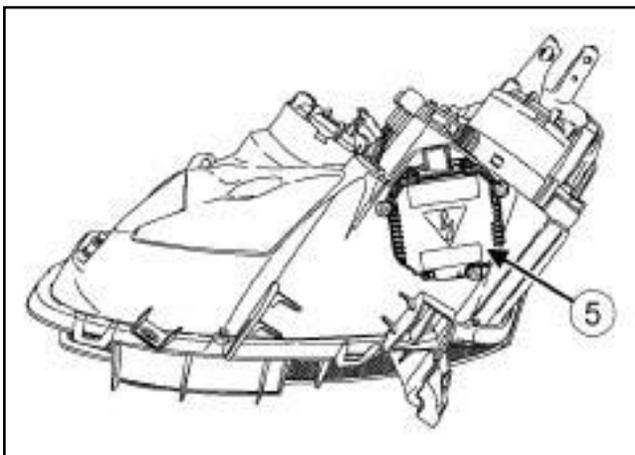
131727

4 - Direction indicator bulb



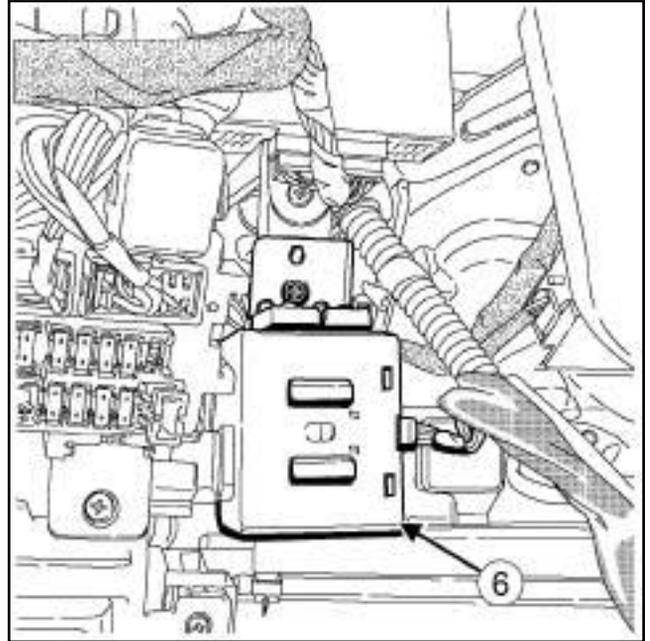
131728

5 - High voltage unit



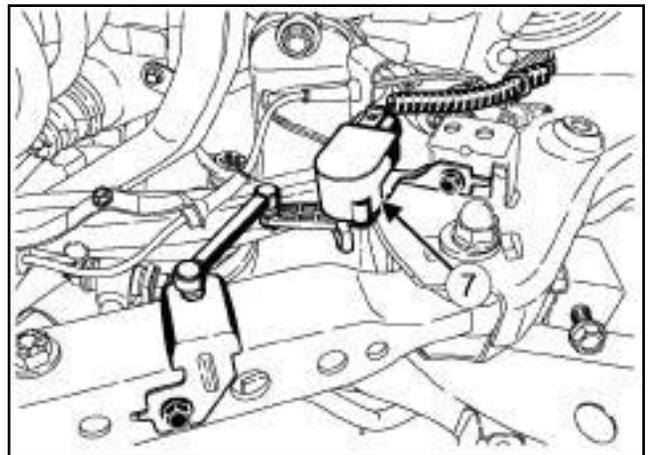
131729

6 - Cornering lights computer



131730

7 - Headlight adjustment rear sensor

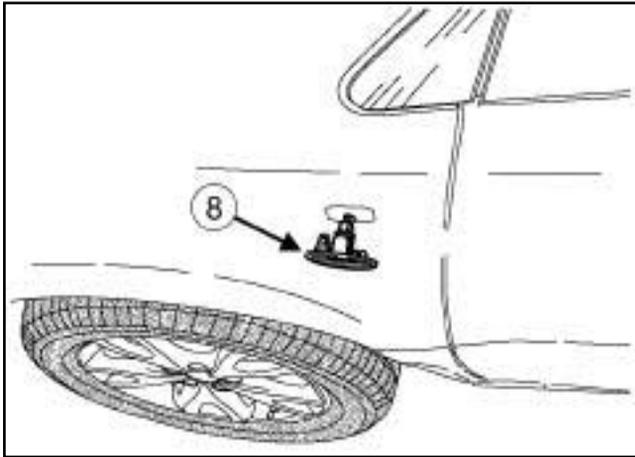


131731

## Front lighting: List and location of components

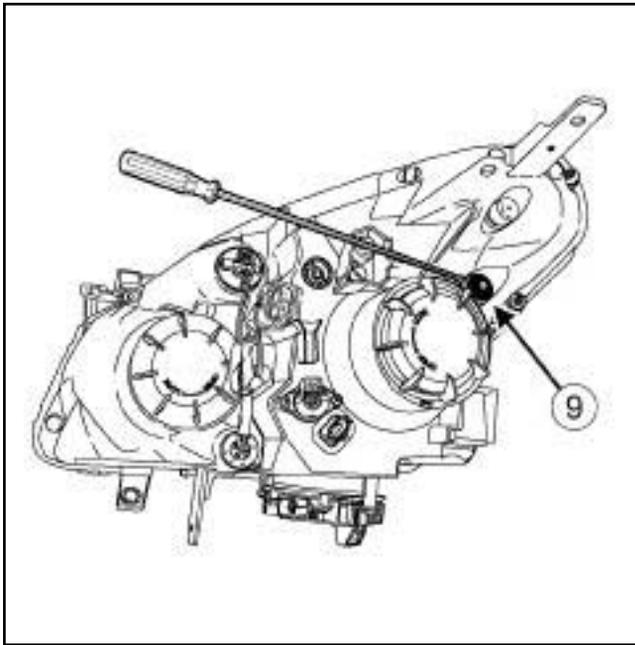
### DISCHARGE LAMPS

8 - Side repeater



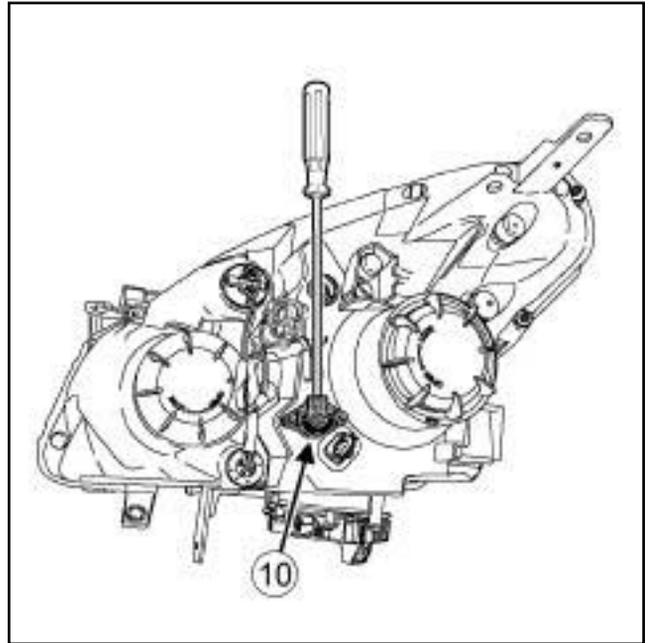
131732

9 - Vertical adjusting bolt



131733

10 - Horizontal adjusting bolt



131734

## Headlight bulb: Removal - Refitting

WITHOUT DISCHARGE LAMPS

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

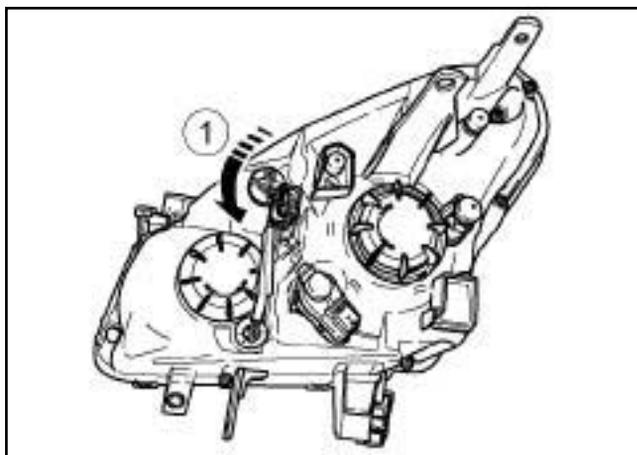
❑ Remove:

- the air inlet sleeve to access the left-hand headlight bulbs (see **Air filter unit: Removal - Refitting**) (12A, Fuel mixture),

- the windscreen washer bottle neck to access the right-hand headlight bulbs (see **85A, Wiping - Washing, Windscreen washer reservoir neck: Removal - Refitting**, page 85A-26) (85A, Wiping - Washing).

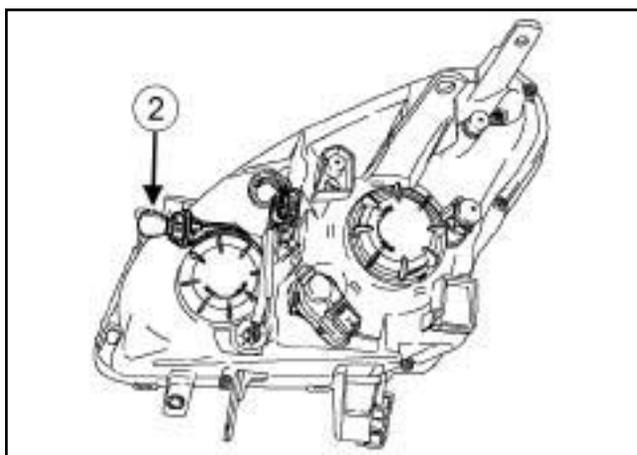
#### II - REMOVAL OF PART CONCERNED

##### 1 - Direction indicator bulb



131354

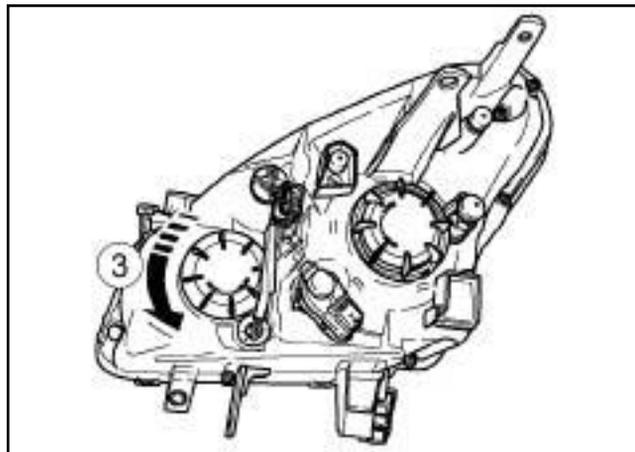
- ❑ Remove the bulb holder by turning it a quarter of a turn anticlockwise (1) .



131355

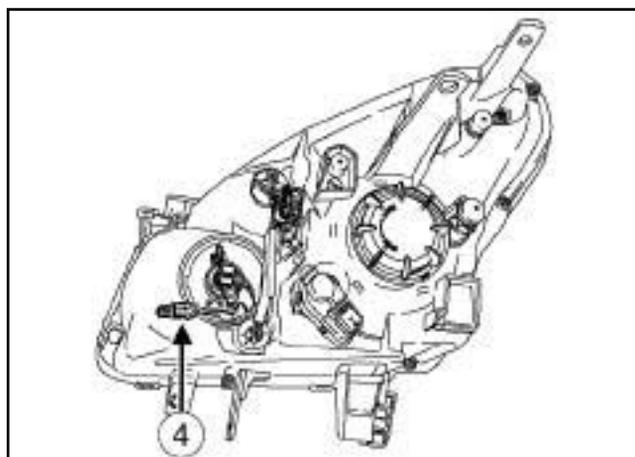
- ❑ Remove the bulb (2) from the bulb holder.

##### 2 - Side light bulb



131356

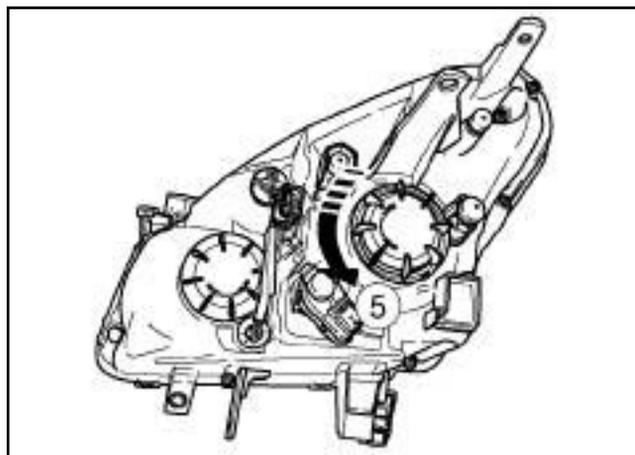
- ❑ Remove the sealing cover by turning it a quarter of a turn anticlockwise (3) .



131357

- ❑ Remove the bulb (4) from the bulb holder.

##### 3 - Main beam headlight bulbs

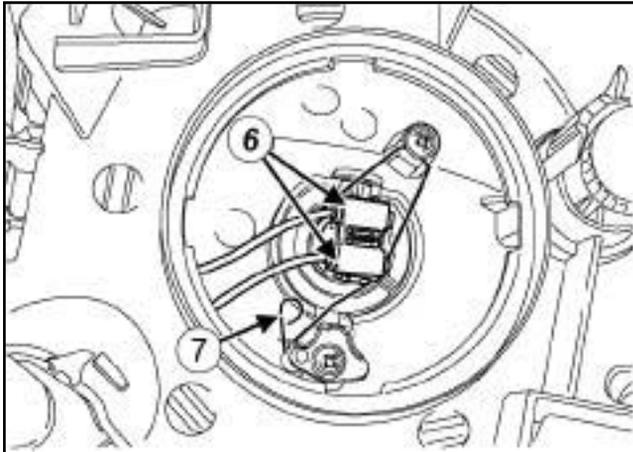


131358

- ❑ Remove the sealing cover by turning it a quarter of a turn anticlockwise (5) .

## Headlight bulb: Removal - Refitting

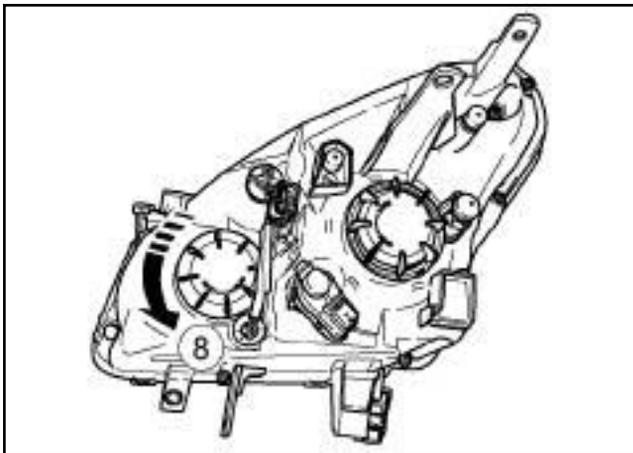
WITHOUT DISCHARGE LAMPS



131359

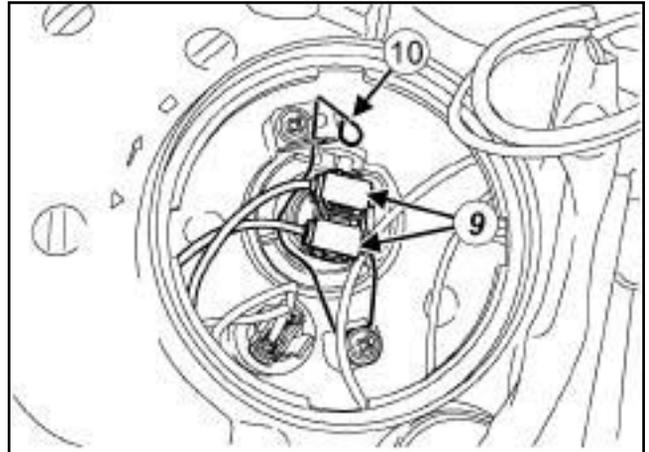
- Disconnect the connector from the main beam headlight bulb (6) .
- Unfasten clip (7) .
- Remove the main beam headlight bulb.

### 4 - Dipped beam headlight bulb



131356

- Remove the sealing cover by turning it a quarter of a turn anticlockwise (8) .



131361

- Disconnect the connector from the dipped beam headlight bulb (9) .
- Unfasten the clip (10) .
- Remove the dipped beam headlight bulb.

## REFITTING

### I - REFITTING PART CONCERNED

#### 1 - Direction indicator bulb

- Refit:
  - an approved **PY21W** bulb onto the direction indicator bulb holder,
  - the bulb holder on the headlight.
- Turn the bulb holder a quarter of a turn clockwise.

#### 2 - Side light bulb

- Refit:
  - an approved **W5W** bulb onto the side light bulb holder,
  - the bulb holder on the headlight.
- Refit the cover by turning it a quarter of a turn clockwise.

#### 3 - Main beam headlight bulbs

- Refit an approved **H7** bulb on the headlight.
- Clip the clip onto the headlight.
- Connect the connector to the main beam headlight bulb.
- Refit the cover by turning it a quarter of a turn clockwise.

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## Headlight bulb: Removal - Refitting

WITHOUT DISCHARGE LAMPS

**4 - Dipped beam headlight bulb**

- Refit an approved **H7** bulb on the headlight.
- Clip the clip onto the headlight.
- Connect the connector to the dipped beam headlight bulb.
- Refit the cover by turning it a quarter of a turn clockwise.

**II - FINAL OPERATION.**

- Refit:
  - the screen washer bottle filler neck (see **85A, Wiping - Washing, Windscreen washer reservoir neck: Removal - Refitting**, page **85A-26**) (12A, Washing - Wiping),
  - the air inlet sleeve (see **Air filter unit: Removal - Refitting**) (12A, Fuel mixture).

# HEADLIGHTS

## Headlight bulb: Removal - Refitting

# 80B

### DISCHARGE LAMPS

## REMOVAL

### I - REMOVAL PREPARATION OPERATION

#### 1 - Direction indicator light, side light and cornering light bulbs

Remove:

- the air inlet sleeve to access the left-hand headlight bulbs (see **Air filter unit: Removal - Refitting**) (12A, Fuel mixture),
- the windscreen washer bottle neck to access the right-hand headlight bulbs (see **85A, Wiping - Washing, Windscreen washer reservoir neck: Removal - Refitting**, page 85A-26) .

#### 2 - Discharge bulb

#### IMPORTANT

To prevent burns, wait until the « computers - power unit » assemblies are cold before removal.

#### IMPORTANT

To prevent eye injuries:

- do not look at a discharge bulb when lit (voltage when lit **20000 V**),
- do not light a bulb which has not been fitted into its headlight.

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

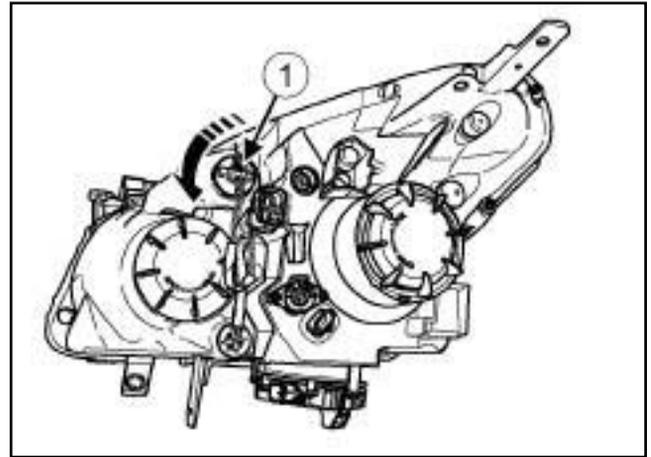
Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page 80A-3) .

Remove:

- the front bumper (see **Front bumper: Removal - Refitting**) (55A, Exterior protection),
- the headlight (see **80B, Headlights, Headlight: Removal - Refitting**, page 80B-1) .

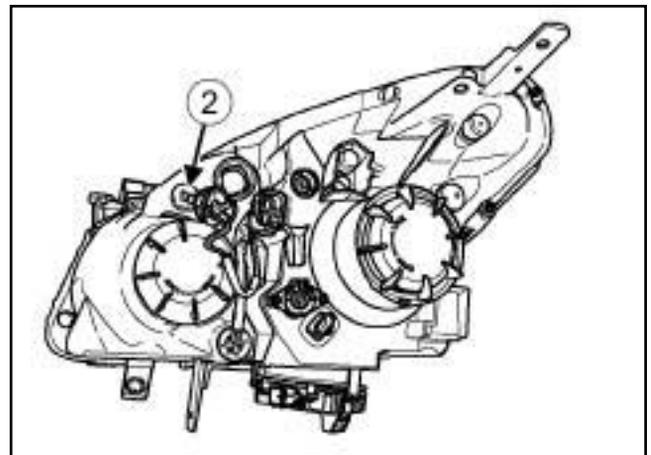
### II - REMOVAL OF PART CONCERNED

#### 1 - Direction indicator bulb



131555

Remove the bulb holder (1) by turning it a quarter of a turn anticlockwise.



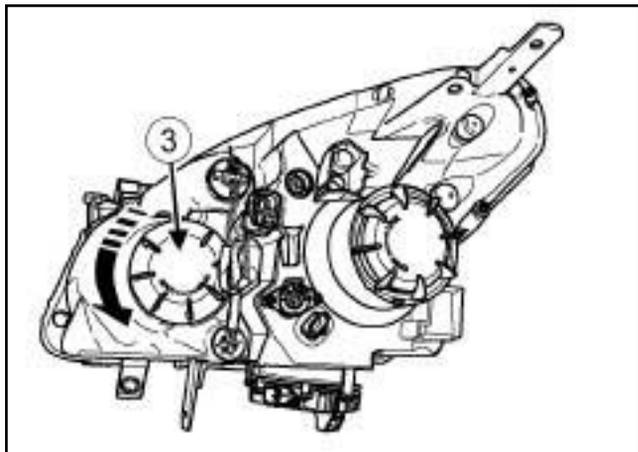
131556

Remove the bulb (2) from the bulb holder.

## Headlight bulb: Removal - Refitting

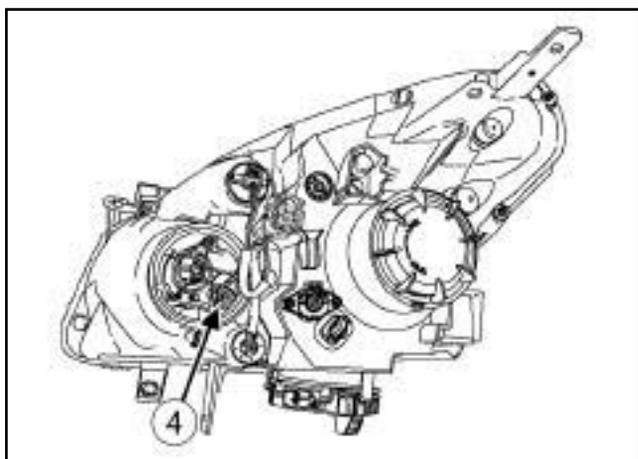
### DISCHARGE LAMPS

#### 2 - Side light bulbs



131557

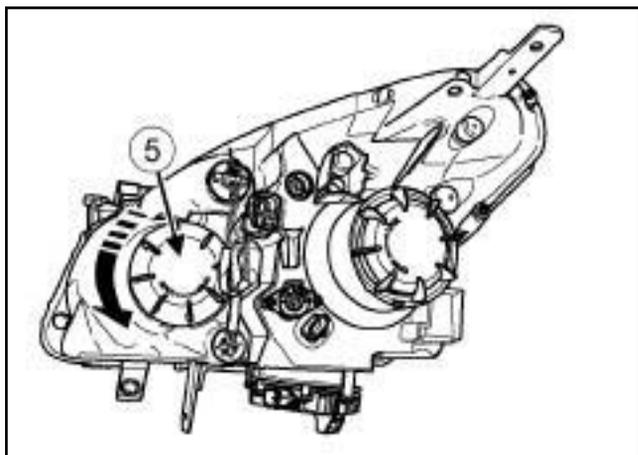
- Remove the sealing cover (3) by turning it a quarter of a turn anticlockwise.



131558

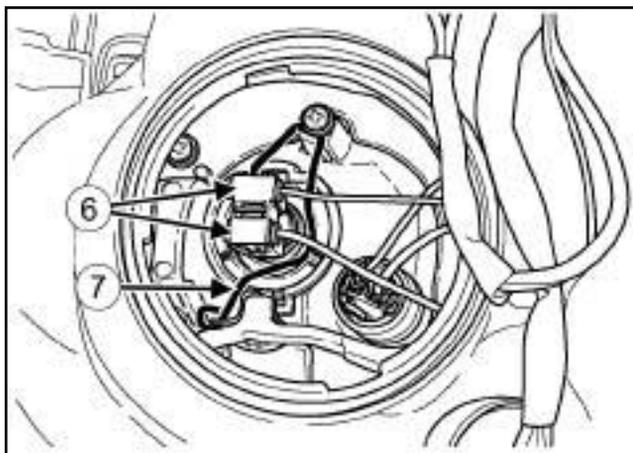
- Remove the bulb (4) from the bulb holder.

#### 3 - Cornering light bulb



131559

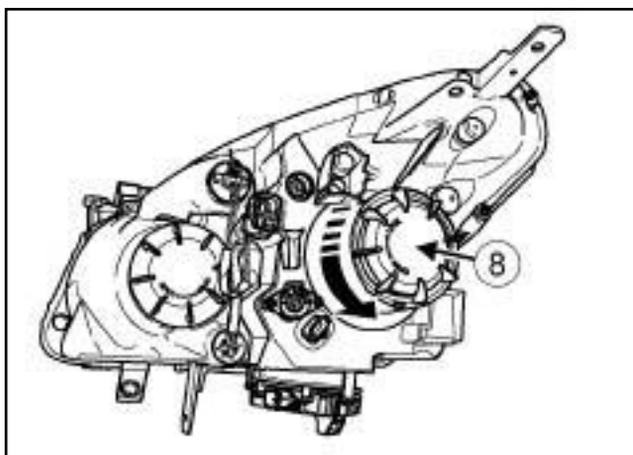
- Remove the sealing cover (5) by turning it a quarter of a turn anticlockwise.



131560

- Disconnect the cornering light bulb (6) .
- Unfasten clip (7) .
- Remove the cornering light bulb.

#### 4 - Discharge bulb

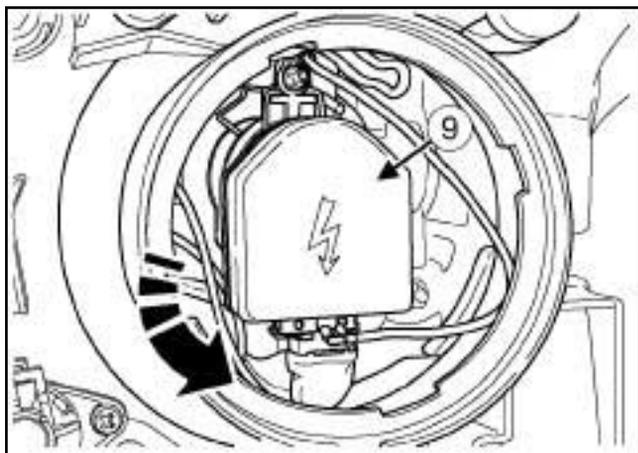


131561

- Remove the sealing cover (8) by turning it a quarter of a turn anticlockwise.

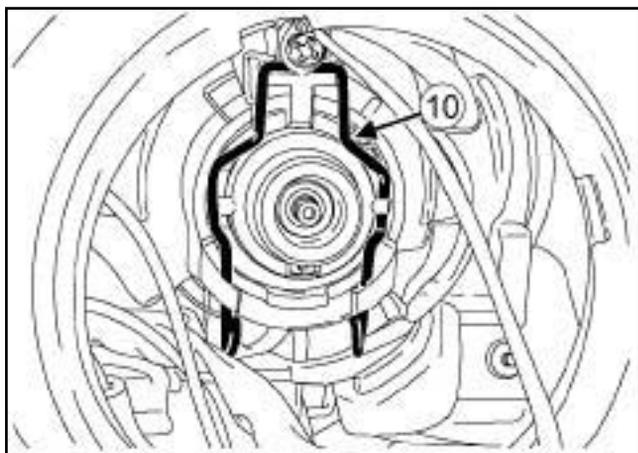
## Headlight bulb: Removal - Refitting

### DISCHARGE LAMPS



131562

- Remove the capacitor (9) by turning it anticlockwise.



131563

- Unfasten clip (10) .

#### 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.

- Remove the bulb with caution, taking it by the neck.

### REFITTING

#### I - REFITTING PART CONCERNED

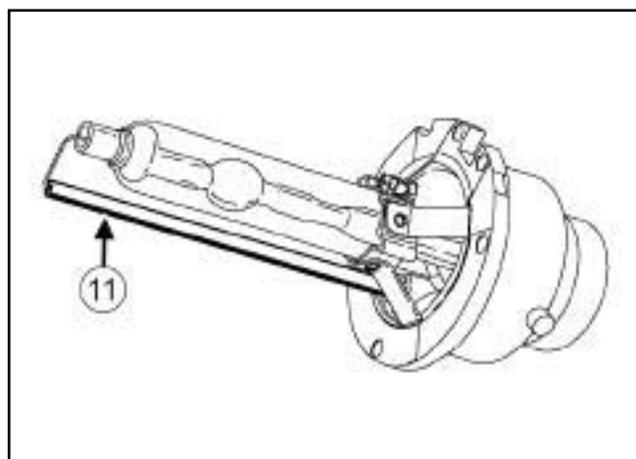
##### 1 - Direction indicator bulb

- Refit:
  - an approved PY21W bulb in the direction indicator bulb holder,
  - the bulb holder on the headlight.
- Turn the bulb holder a quarter of a turn clockwise.

##### 2 - Cornering light bulb

- Refit an approved H7 bulb on the headlight.
- Clip the clip onto the headlight.
- Connect the cornering light bulb connector.
- Refit the cover by turning it a quarter of a turn clockwise.

##### 3 - Xenon bulb



131564

- 

#### WARNING

The bulb must be handled with care.

The external conductor (11) is very fragile and must not be damaged.

- Refit an approved D2S bulb on the headlight.
- Clip the clip onto the headlight.
- Refit:
  - the capacitor by turning it clockwise,
  - the cover by turning it a quarter of a turn clockwise.

#### II - FINAL OPERATION.

##### 1 - Direction indicator light, side light and cornering light bulbs

- Refit:
  - the windscreen washer bottle neck to access the right-hand headlight bulbs (see **85A, Wiping - Washing, Windscreen washer reservoir neck: Removal - Refitting, page 85A-26**) .
  - the air inlet sleeve to access the left-hand headlight bulbs (see **Air filter unit: Removal - Refitting**) (12A, Fuel mixture),

## Headlight bulb: Removal - Refitting

## DISCHARGE LAMPS

## 2 - Xenon bulb

 Refit:

- the headlight (see **80B, Headlights, Headlight: Removal - Refitting**, page **80B-1**).

- the front bumper (see **Front bumper: Removal - Refitting**) (55A, Exterior protection).

 Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**). Adjust the headlights (see **80B, Headlights, Headlight: Adjustment**, page **80B-3**)

## Front fog light: Removal - Refitting

### ADDITIONAL HEADLIGHTS

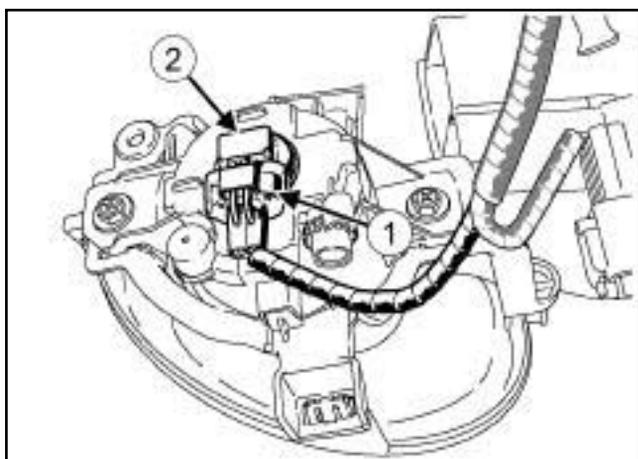
#### REMOVAL

##### I - REMOVAL PREPARATION OPERATION

- Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (02A, Lifting equipment).
- Remove:
  - the front wheel (see **Wheel: Removal - Refitting**) (35A, Wheels and tyres),
  - the front wheel arch liner (see **Front wheel arch liner: Removal - Refitting**) (55A, Exterior protection).

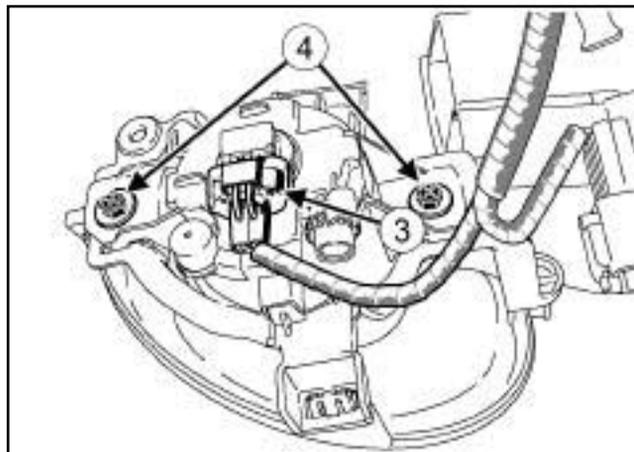
##### II - OPERATION FOR REMOVAL OF PART CONCERNED

###### 1 - Front fog light bulb



- Disconnect the front fog light connector (1) .
- Remove:
  - the bulb holder (2) by turning it a quarter of a turn anticlockwise,
  - the bulb from the bulb holder.

###### 2 - Front fog light



- Disconnect the front fog light connector (3) .
- Remove:
  - the bolts (4) from the front fog light,
  - the front fog light.

#### REFITTING

##### I - REFITTING OPERATION FOR PART CONCERNED

###### 1 - Front fog light bulb

- Refit:
  - an approved **P12V** bulb onto the bulb holder of the front fog light,
  - the bulb holder on the front fog light.
- Turn the bulb holder a quarter of a turn clockwise.
- Connect the front fog light connector.

###### 2 - Front fog light

- Refit:
  - the front fog light,
  - the front fog light bolts.
- Connect the front fog light connector.

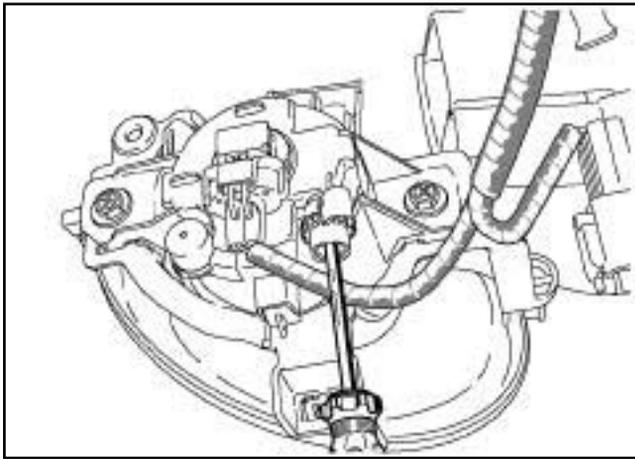
##### II - FINAL OPERATION.

- Refit:
  - the front wheel arch liner (see **Front wheel arch liner: Removal - Refitting**) (55A, Exterior protection),

## Front fog light: Removal - Refitting

### ADDITIONAL HEADLIGHTS

- the front wheel (see **Wheel: Removal - Refitting**) (35A, Wheels and tyres).

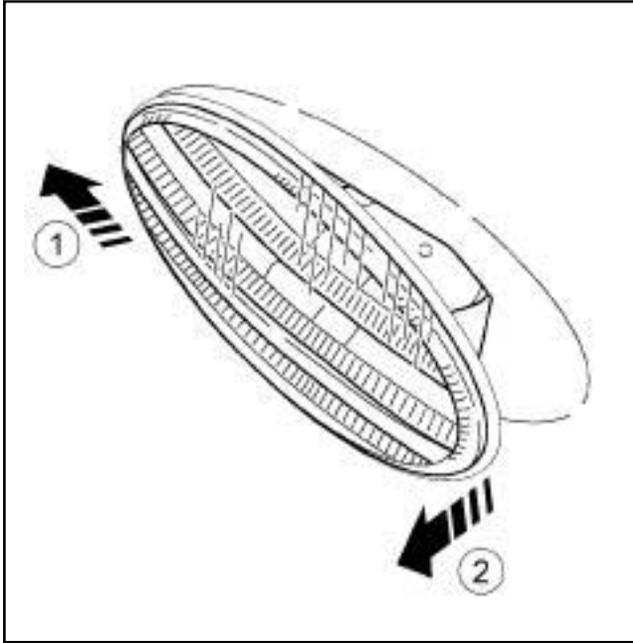


130838

- Adjust the front fog lights using a screwdriver.

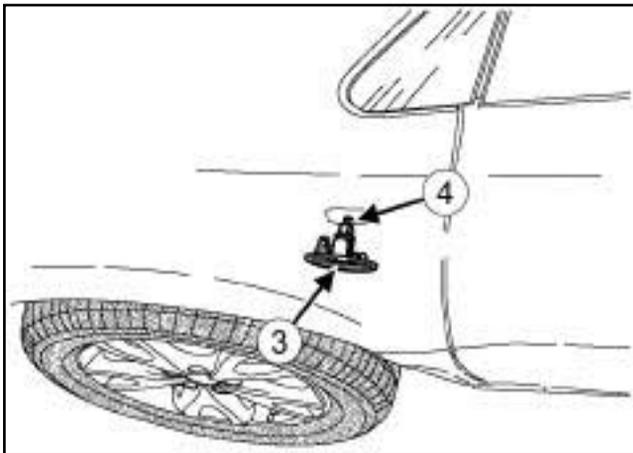
### REMOVAL

#### OPERATION FOR REMOVAL OF PART CONCERNED



130361

- Push the side indicator towards the front of the vehicle (1) .
- Pull the side indicator in the direction of (2) .



130362

- Remove:
  - the side indicator cover (3) from the bulb holder (4) by turning it a quarter turn anticlockwise,
  - the side indicator bulb from the bulb holder.

#### Note:

Support the side indicator wiring using adhesive tape, so that the side indicator does not fall into the front wing.

### REFITTING

#### REFITTING OPERATION FOR PART CONCERNED

- Replace the bulb only with an approved **W5W** bulb.
- Refit:
  - the side indicator bulb on the bulb holder,
  - the side indicator cover on the bulb holder by turning it a quarter turn clockwise,
  - the side indicator on the front wing.

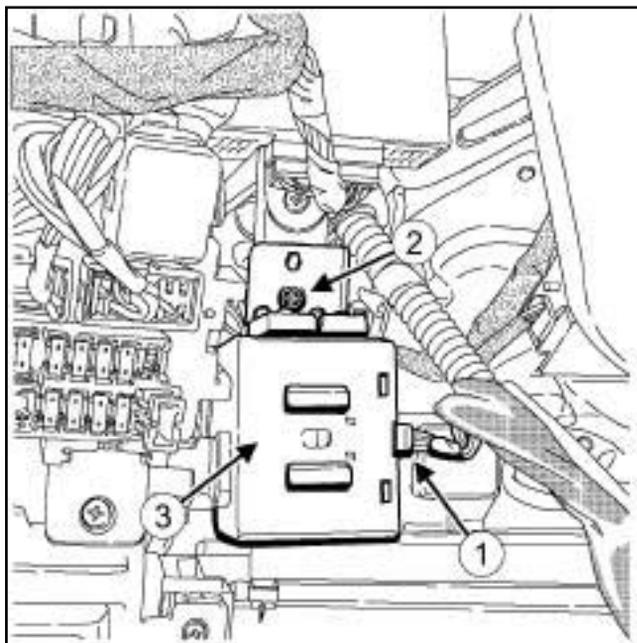
## DISCHARGE LAMPS

## REMOVAL

## I - REMOVAL PREPARATION OPERATION

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

## II - OPERATION FOR REMOVAL OF PART CONCERNED



130363

- Disconnect the additional cornering lights computer connector (1) .
- Remove:
  - the additional cornering lights computer bolt (2) ,
  - the additional cornering lights computer (3) .

## REFITTING

## I - REFITTING OPERATION FOR PART CONCERNED

- Refit:
  - the additional cornering lights computer,
  - the additional cornering lights computer bolt.
- Connect the connector to the additional cornering lights computer.

## II - FINAL OPERATION.

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

### DISCHARGE LAMPS

#### IMPORTANT

To prevent eye injuries:

- do not look at a discharge bulb when lit (voltage when lit **20000 V**),
- do not light a bulb which has not been fitted into its headlight.

#### IMPORTANT

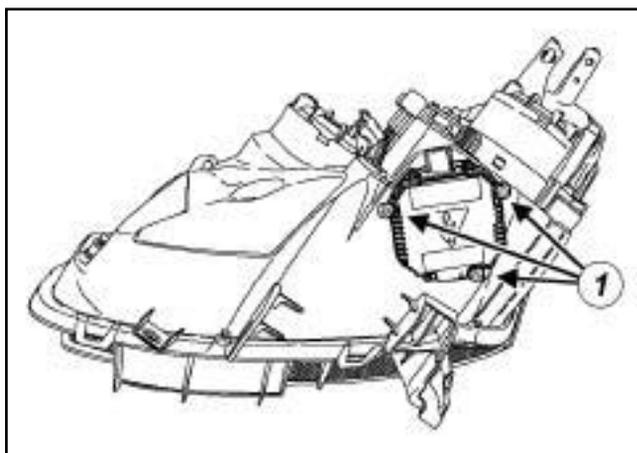
To prevent burns, wait until the « computers - power unit » assemblies are cold before removal.

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

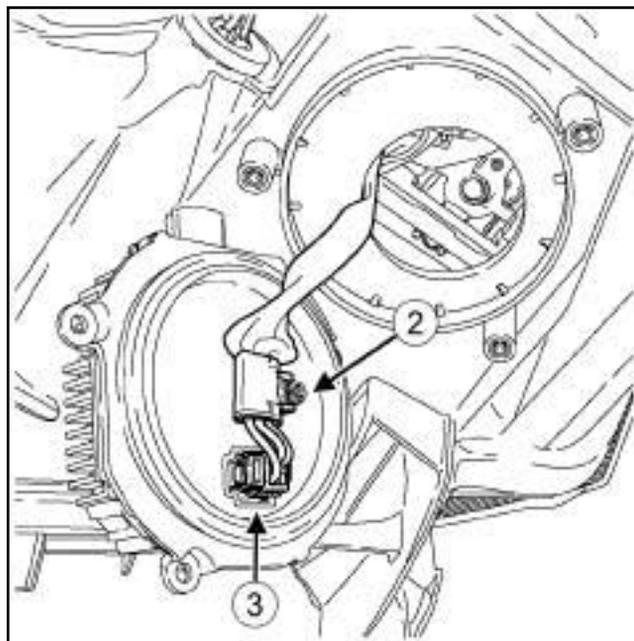
- Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (02A, Lifting equipment).
- Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page 80A-3) .
- Remove:
  - the front bumper (see **Front bumper: Removal - Refitting**) (55A, Exterior protection),
  - the headlight (see **80B, Headlights, Headlight: Removal - Refitting**, page 80B-1) .

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



130364

- Remove the bolts (1) from the high voltage unit.



130365

- Remove the bolt (2) from the high voltage unit.
- Disconnect the high voltage unit connector (3) .
- Remove the high voltage unit.

### REFITTING

#### I - REFITTING PREPARATION OPERATION

- Always replace the high voltage unit seal.

#### II - REFITTING OPERATION FOR PART CONCERNED

- Connect the high voltage unit connector.

Note:

Check that the connector is locked correctly.

- Refit:

- the bolt of the high voltage unit wiring,
- the high voltage unit with a new seal,
- the high voltage unit bolts.

#### III - FINAL OPERATION.

- Refit:

- the headlight (see **80B, Headlights, Headlight: Removal - Refitting**, page 80B-1) ,
- the front bumper (see **Front bumper: Removal - Refitting**) (55A, Exterior protection).

### DISCHARGE LAMPS

- Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**).
- Adjust the headlight beam (see **80B, Headlights, Headlight: Adjustment**, page **80B-3**).

### DISCHARGE LAMPS

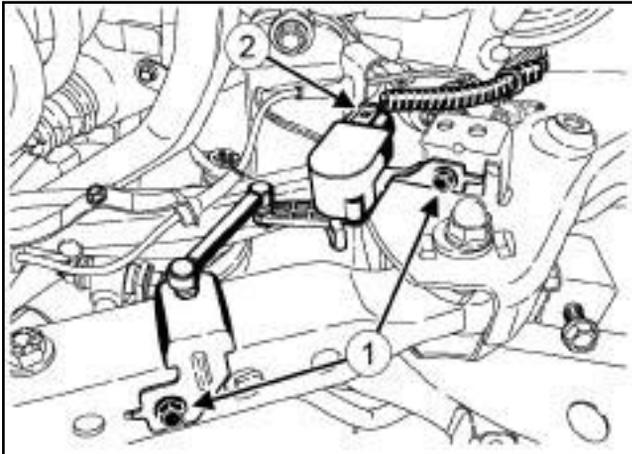
Tightening torques 	
headlight beam adjustment rear sensor bolt	<b>25 N.m</b>

## REMOVAL

### I - REMOVAL PREPARATION OPERATION

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

### II - OPERATION FOR REMOVAL OF PART CONCERNED



130366

- Remove the bolts (1) from the headlight beam adjustment rear sensor.
- Disconnect the connector (2) from the headlight beam adjustment rear sensor.
- Remove the headlight beam adjustment rear sensor.

## REFITTING

### I - REFITTING PREPARATION OPERATION

- 

#### Note:

Replace the sensor if the linkage is damaged along its length or if there is damage to the ball joint - lever - linkage connection.

### II - REFITTING OPERATION FOR PART CONCERNED

- Connect the headlight beam adjustment rear sensor connector.
- Fit the sensor with its mounting to the vehicle.
- Refit:
  - the headlight beam adjustment rear sensor,
  - the bolts for the headlight beam adjustment rear sensor.
- Torque tighten the **headlight beam adjustment rear sensor bolt (25 N.m)**.

### III - FINAL OPERATION.

- Adjust:
  - the front headlights (see **80B, Headlights, Headlight: Adjustment**, page **80B-3**),
  - the headlight beam adjustment rear sensor (see **Fault Finding - Programming**)(80B, Headlights).

# REAR LIGHTING

# 81A

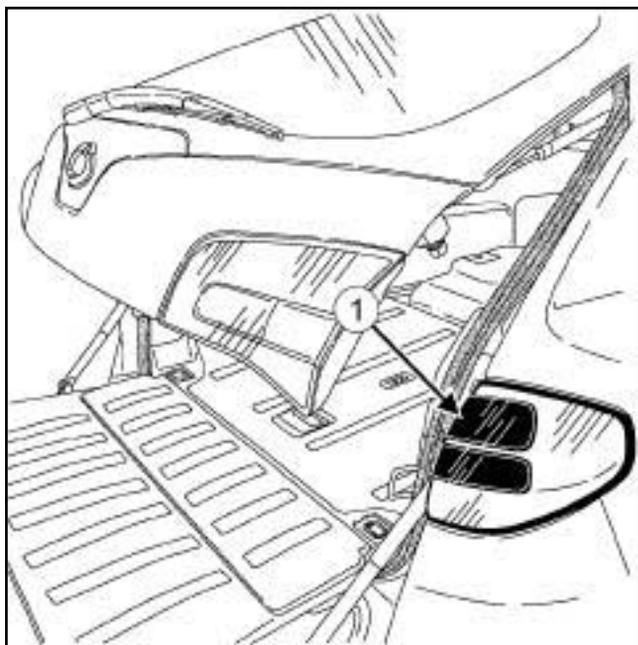
## Rear lighting: List and location of components

### I - LIST OF COMPONENTS

No.	Description
(1)	Rear light on wing
(2)	Tailgate light
(3)	Rear light bulbs
(4)	High level brake light
(5)	Number plate light

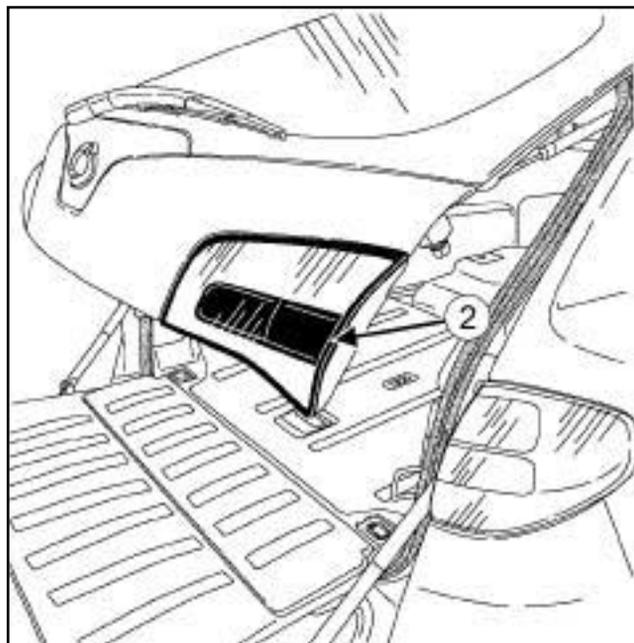
### II - LOCATION OF COMPONENTS

#### 1 - Rear light on wing



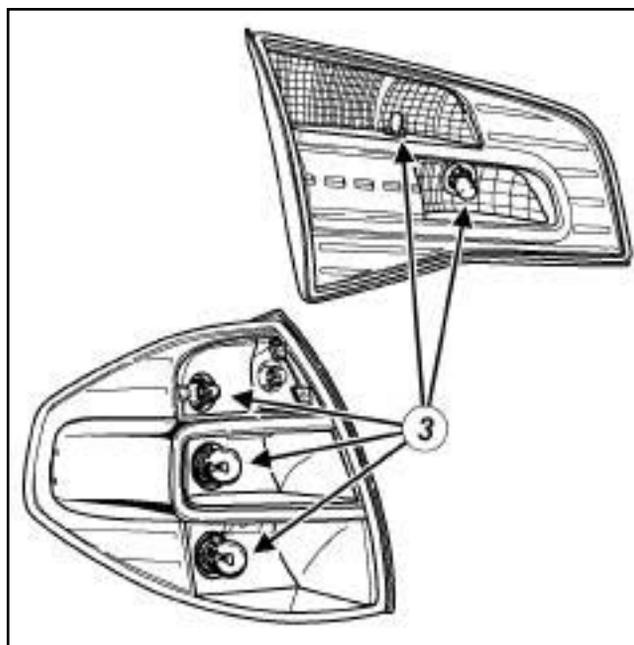
130614

#### 2 - Tailgate light



130615

#### 3 - Rear light bulbs

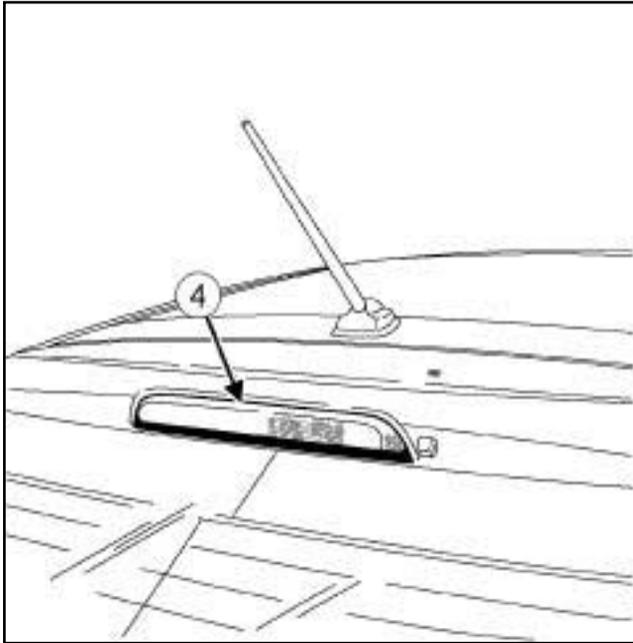


130616

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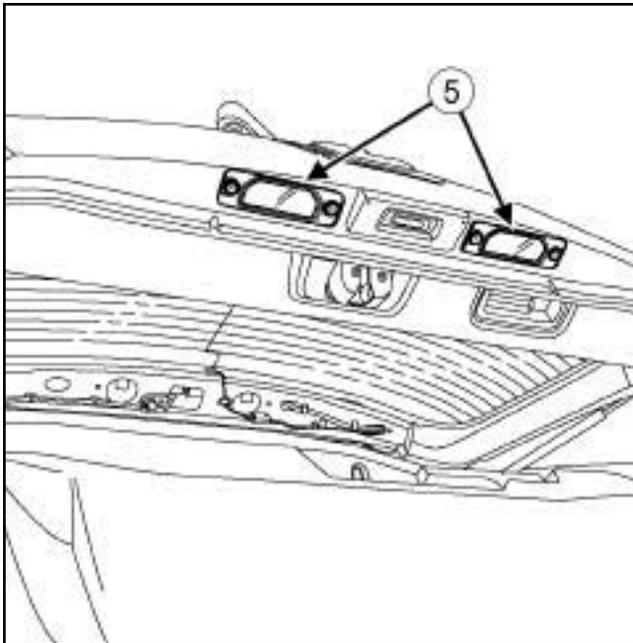
## Rear lighting: List and location of components

### 4 - High level brake light



130617

### 5 - Number plate light



130618

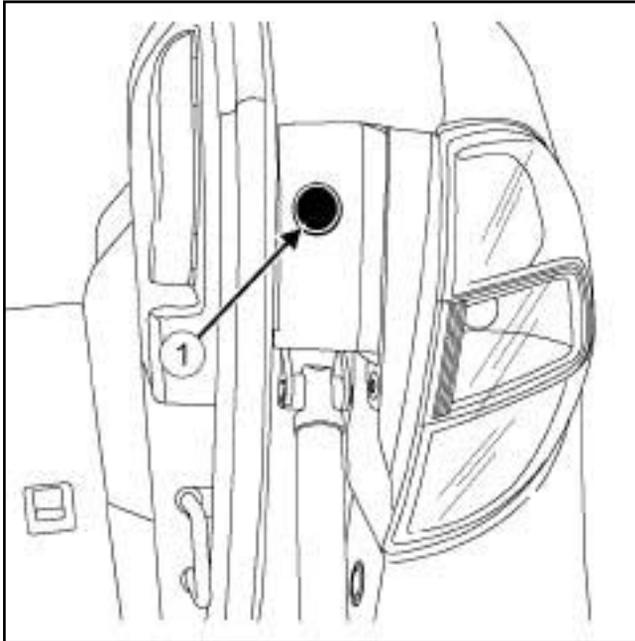
**Note:**

The number plate lights are located on the tailgate strip.

## Rear wing light: Removal - Refitting

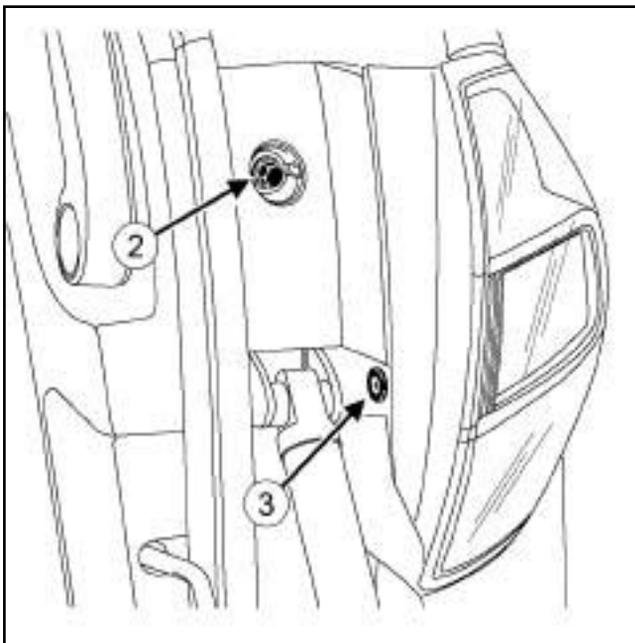
### REMOVAL

#### OPERATION FOR REMOVAL OF PART CONCERNED



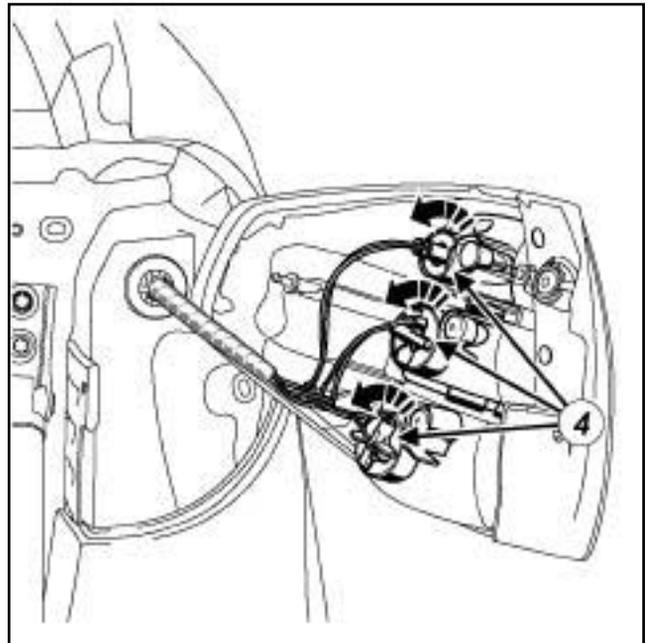
130619

- ❑ Remove the blanking cover (1) .



130620

- ❑ Remove the rear light bolt (2) .
- ❑ Unclip the retaining clip (3) .



130621

- ❑

#### Note:

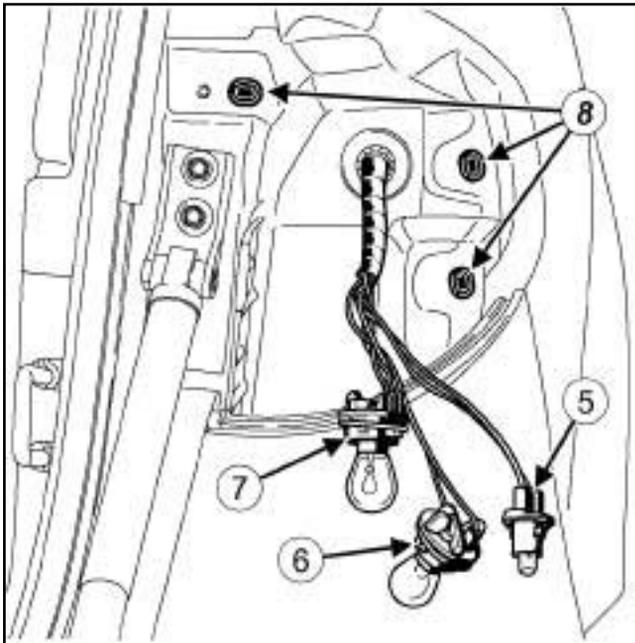
Protect the bodywork varnish using a cloth if using a flat-blade screwdriver.

- ❑ Remove:

- the rear light using a flat-blade screwdriver,
- the bulb and bulb mounting assembly (4) of the rear light housing by rotating it anti-clockwise.

#### Note:

After removing the rear light, check that the grommets (9) are correctly fitted on the body (it is possible for water to flow through the grommet).



135216

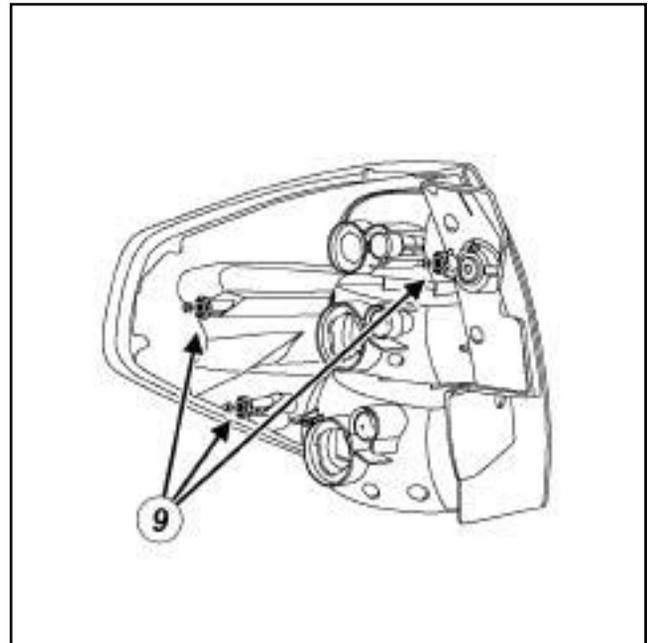
Remove:

- the side light bulb (5) ,
- the direction indicator bulb (6) ,
- the brake light bulb (7) .

### REFITTING

#### REFITTING OPERATION FOR PART CONCERNED

- When replacing the bulb, use an approved bulb:
  - **W5W** for the side light,
  - **KHA 12V 21W** for the direction indicator,
  - **P21W** for the brake light.
- Refit:
  - the bulbs on the mountings,
  - the bulb and mounting assembly on the rear light housing by rotating it clockwise.



130623

- Refit the rear light on the wing using the centring devices (9) .

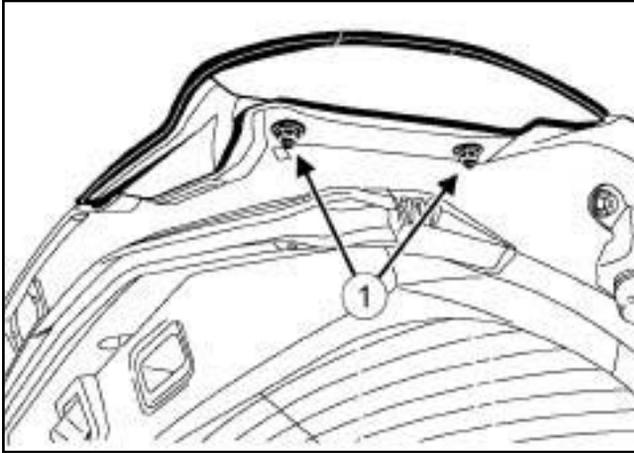
- Clip on the retaining clip.

Refit:

- the rear light bolt,
- the blanking cover.

### REMOVAL

#### OPERATION FOR REMOVAL OF PART CONCERNED



130632

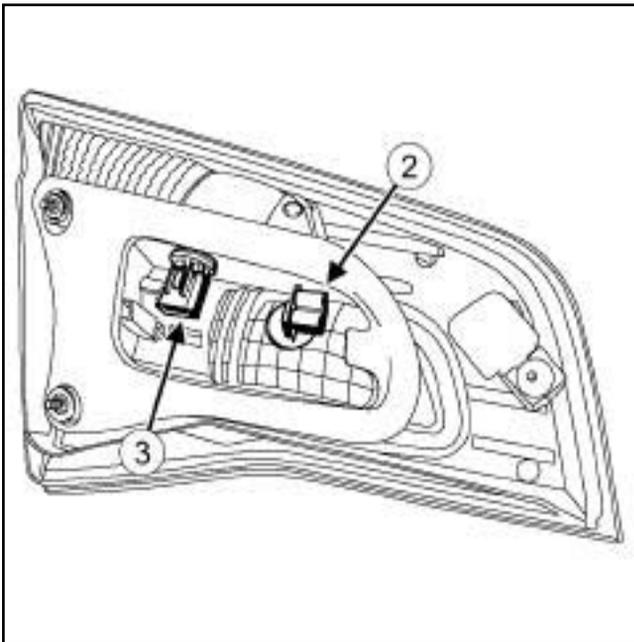
#### Note:

Protect the bodywork varnish using a cloth if using a flat-blade screwdriver.

Remove:

- the tailgate light nuts (1) ,
- the tailgate light using a flat-blade screwdriver.

Disconnect the connectors.



130633

Remove:

- the reversing light bulb (2) ,

- the side light bulb (3) .

### REFITTING

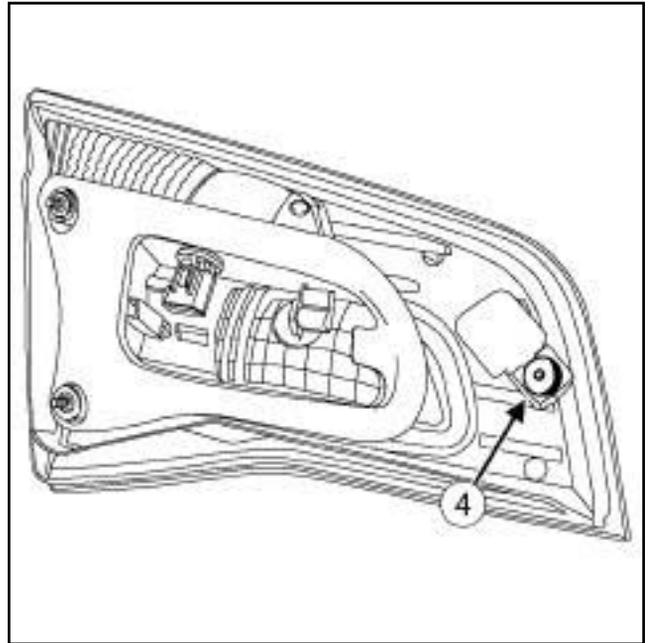
#### REFITTING OPERATION FOR PART CONCERNED

Use an approved bulb for replacement:

- **P12V / W5W** for the side light,
- **P12V / W16W** for the reversing light.

Refit the bulbs.

Connect the connectors.



130634

Refit:

- the tailgate light on the tailgate using the centring device (4) ,
- the tailgate light nuts.

# REAR LIGHTING

## Rear light bulb: Removal - Refitting

# 81A

### REMOVAL - REFITTING

#### I - REMOVAL PREPARATION OPERATION

##### 1 - Rear light on wing

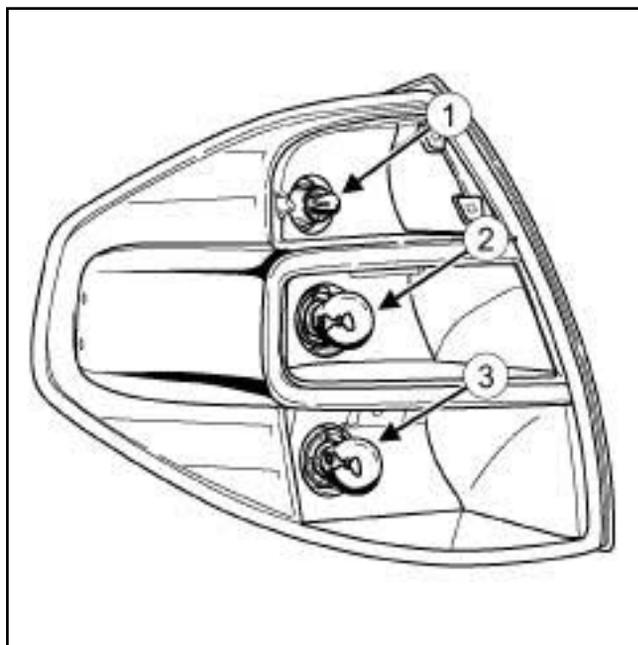
- Remove the bulb holder (see **81A, Rear lighting, Rear wing light: Removal - Refitting, page 81A-3**).

##### 2 - Tailgate light

- Remove the bulb holder (see **81A, Rear lighting, Rear opening element light: Removal - Refitting, page 81A-5**).

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

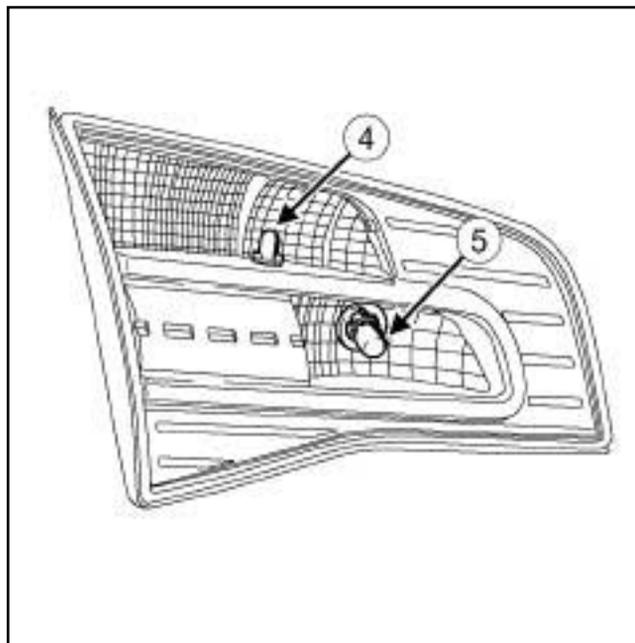
##### 1 - Rear light on wing



130624

- Remove:
  - the side light bulb (1) ,
  - the direction indicator bulb (2) ,
  - the brake light bulb (3) .

##### 2 - Tailgate light



130625

- Remove:
  - the side light bulb (4) ,
  - the reversing light bulb (5) .

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

##### 1 - Rear light on wing

- Refit:
  - the approved **P21W** bulb for the brake light,
  - the approved **KHA 12V 21W** bulb for the direction indicator light,
  - the approved **W5W** bulb for the side light.

##### 2 - Tailgate light

- Refit:
  - the approved **P12V/W16W** bulb for the reversing light,
  - the approved **W5W** bulb for the side light.

#### II - FINAL OPERATION.

##### 1 - Rear light on wing

- Refit the bulb holder (see **81A, Rear lighting, Rear wing light: Removal - Refitting, page 81A-3**).

# REAR LIGHTING

## Rear light bulb: Removal - Refitting

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**81A**

### 2 - Tailgate light

- Refit the bulb holder (see 81A, Rear lighting, Rear opening element light: Removal - Refitting, page 81A-5) .

# REAR LIGHTING

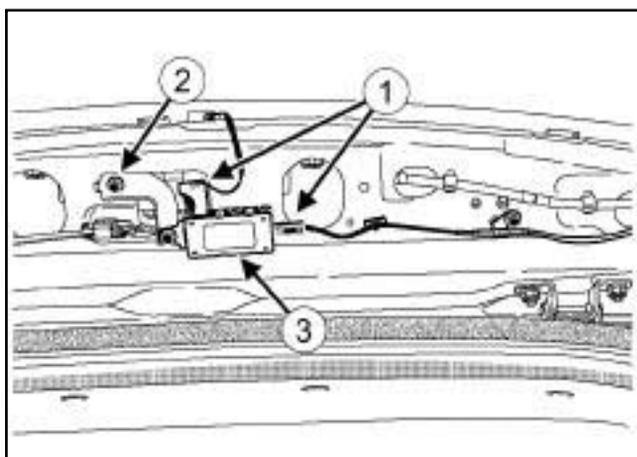
## 3rd brake light: Removal - Refitting

# 81A

### REMOVAL - REFITTING

#### I - REMOVAL PREPARATION OPERATION

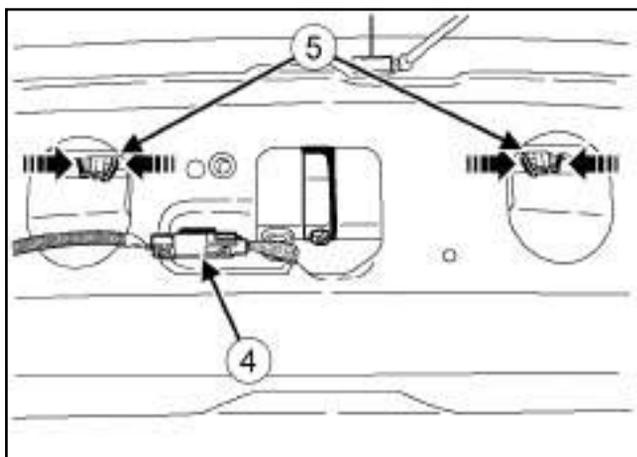
- ❑ Remove the tailgate upper trim (see **Tailgate trim: Removal - Refitting**) (73A, Non-side opening elements trim).



130626

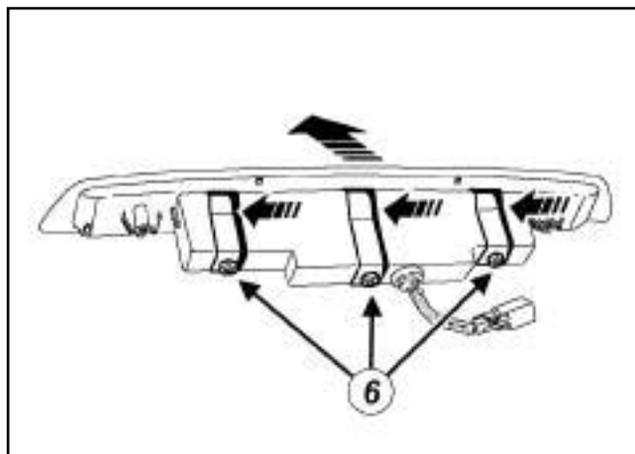
- ❑ Disconnect the connectors (1) .
- ❑ Remove:
  - the bolt (2) ,
  - the clip (3) .
- ❑ Move aside the amplifier and its support.

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



130627

- ❑ Disconnect the connector (4) .
- ❑ Unclip clips (5) .



130628

- ❑ Remove:
  - the clips (6) ,
  - the high level brake light.

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

- ❑ When replacing the high level brake light bulb, replace the high level brake light assembly.
- ❑ Refit the high level brake light.
- ❑ Connect the connector.

#### II - FINAL OPERATION.

- ❑ Fit the amplifier and its support in their original location.
- ❑ Refit:
  - the clip,
  - the bolt.
- ❑ Connect the connectors.
- ❑ Refit the tailgate upper trim (see **Tailgate trim: Removal - Refitting**) (73A, Non-side opening elements trim).

# REAR LIGHTING

## Rear fog lights: Removal - Refitting

81A

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

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

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

##### 1 - Rear fog light bulb

- Disconnect the rear fog light connector.
- Remove:
  - the bulb holder by rotating it a quarter turn anti-clockwise,
  - the bulb from the bulb holder.

##### 2 - Rear fog light

- Disconnect the rear fog light connector.
- Remove:
  - the rear fog light bolts,
  - the rear fog light from the rear bumper.

### REFITTING

#### REFITTING OPERATION FOR PART CONCERNED

##### 1 - Rear fog light bulb

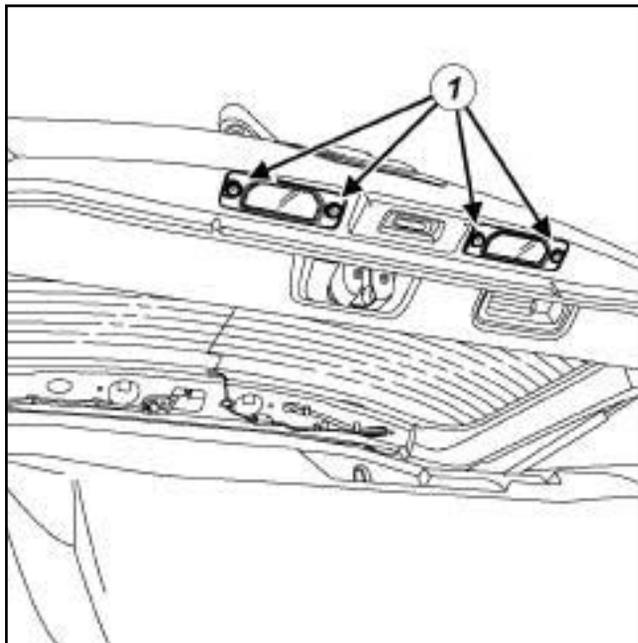
- Refit:
  - an approved **W21W** bulb in the rear fog light bulb holder,
  - the bulb holder on the rear fog light by rotating it a quarter turn clockwise.
- Connect the rear fog light connector.

##### 2 - Rear fog light

- Refit:
  - the rear fog light on the rear bumper,
  - the rear fog light bolts.
- Connect the rear fog light connector.

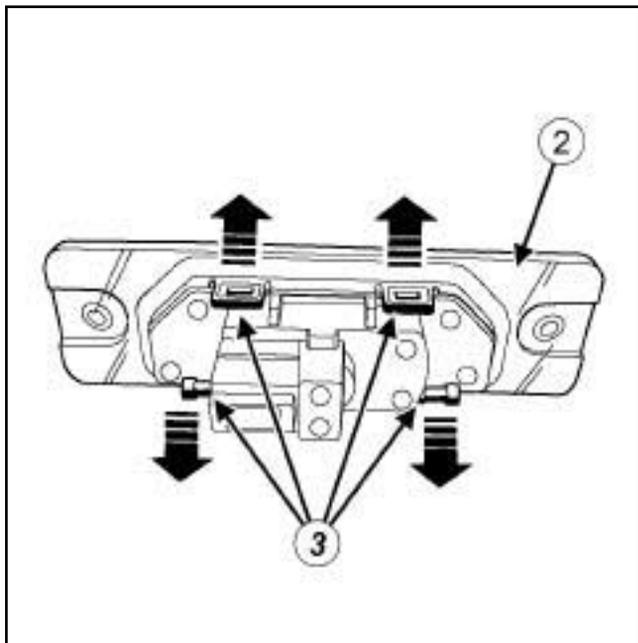
### REMOVAL - REFITTING

#### OPERATION FOR REMOVAL OF PART CONCERNED



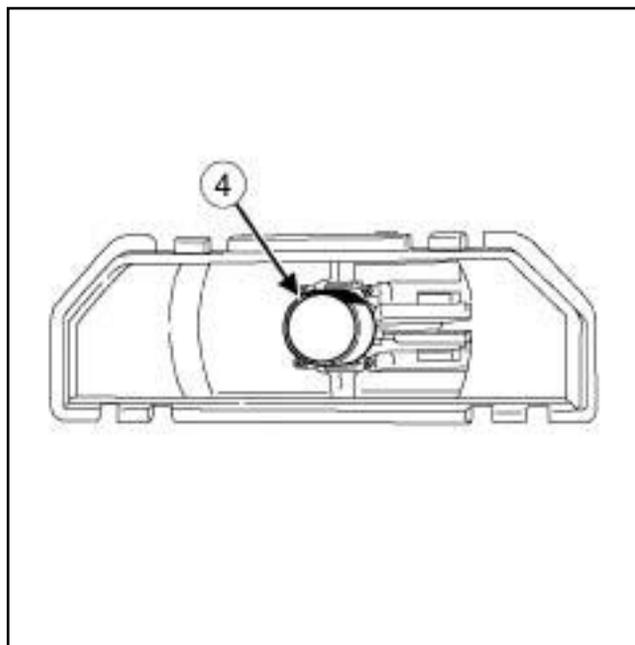
130629

- Remove the number plate light bolts (1) .
- Disconnect the number plate light connectors.
- Remove the number plate lights.



130630

- Unclip the plate (2) at (3) .



130631

- Remove the bulb (4) .

### REFITTING

#### REFITTING OPERATION FOR PART CONCERNED

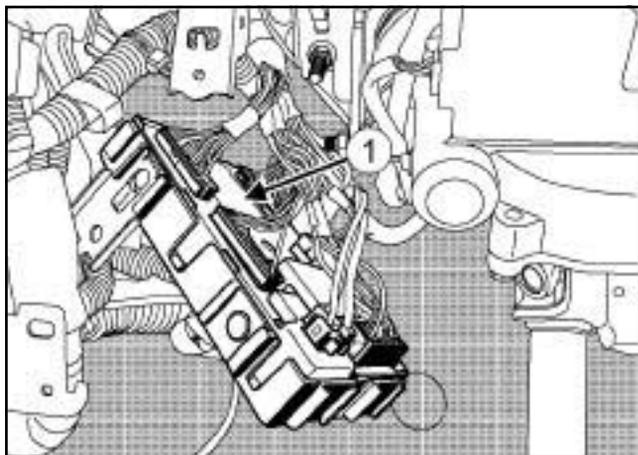
- When replacing the bulb, use an approved **W5W** bulb.
- Refit the bulb.
- Clip on the plate.
- Connect the number plate light connectors.
- Refit:
  - the number plate lights,
  - the number plate light bolts.

### I - LIST OF COMPONENTS

No.	Description
(1)	UCH
(2)	Fuse boxes and passenger compartment relays
(3)	Courtesy light
(4)	Headlining light
(5)	Courtesy light
(6)	Storage compartment light
(7)	Door sill light
(8)	Luggage compartment light
(9)	Centre console light

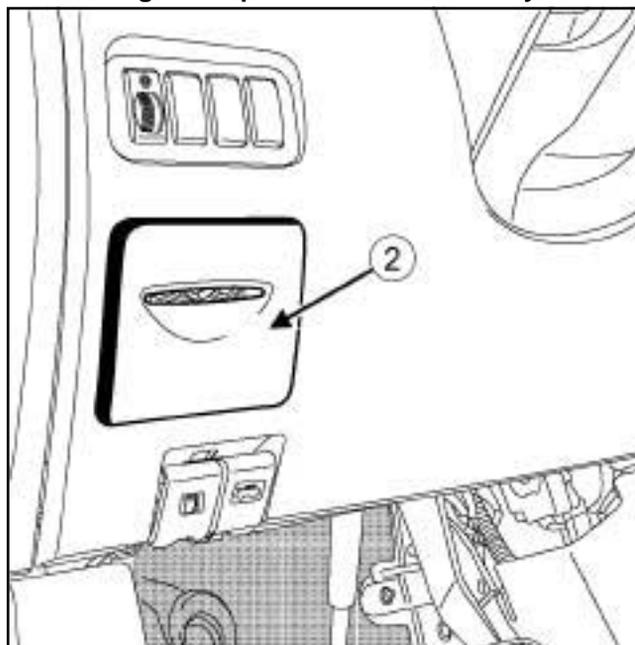
### II - LOCATION OF COMPONENTS

#### 1 - UCH



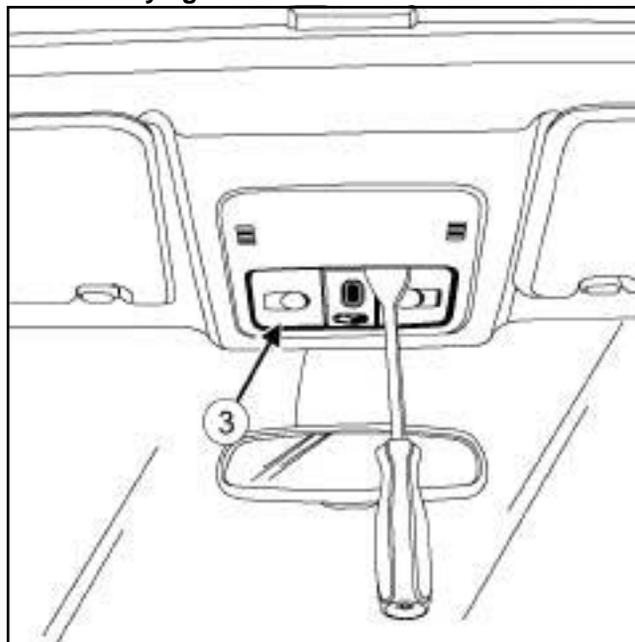
130635

#### 2 - Passenger compartment fuse and relay box



130636

#### 3 - Courtesy light



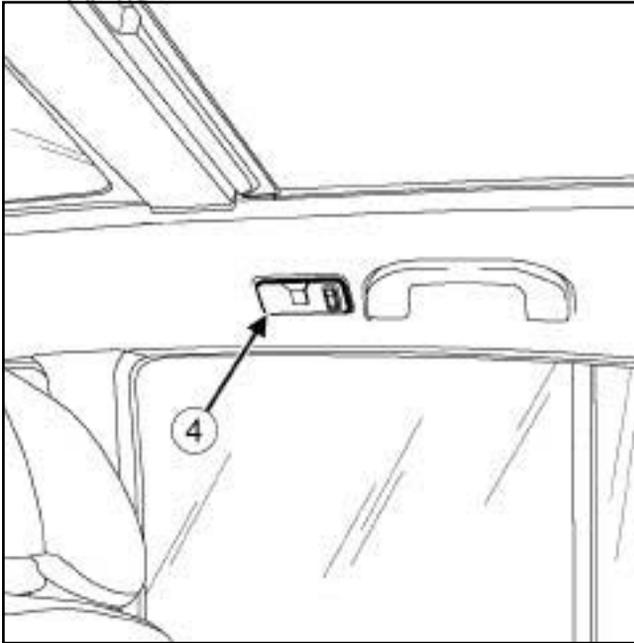
130637

# INTERIOR LIGHTING

# 81B

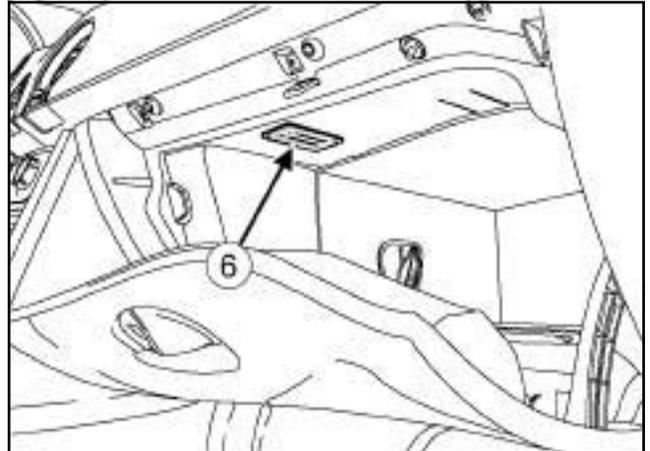
## Interior lighting: List and location of components

4 - Headlining light



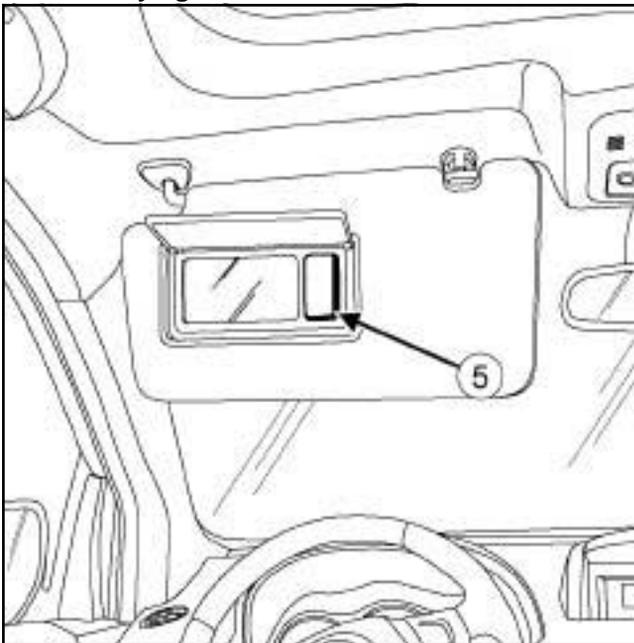
130638

6 - Glove box light



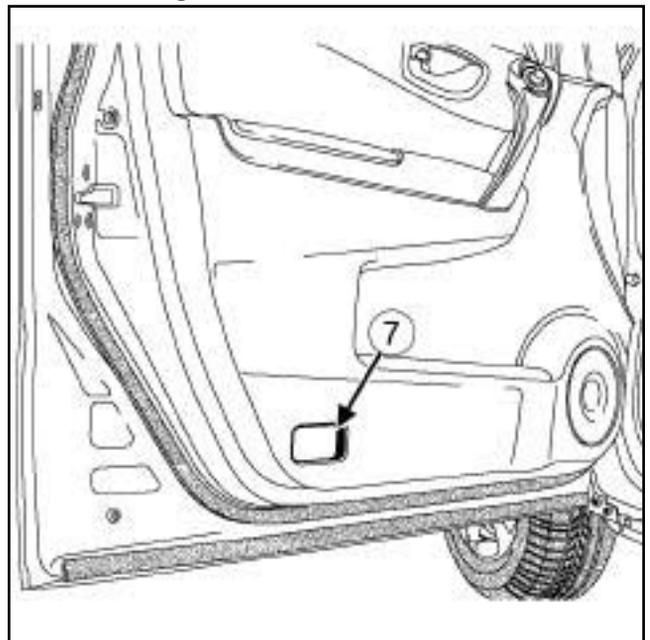
130640

5 - Courtesy light



130639

7 - Door sill light

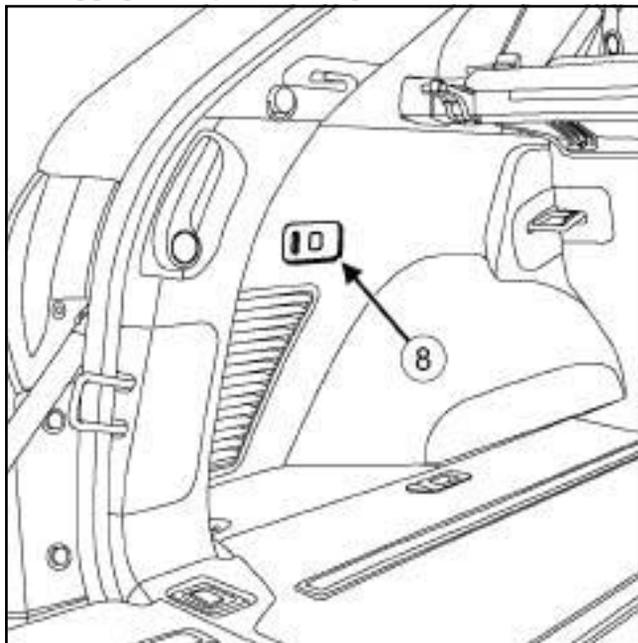


130641

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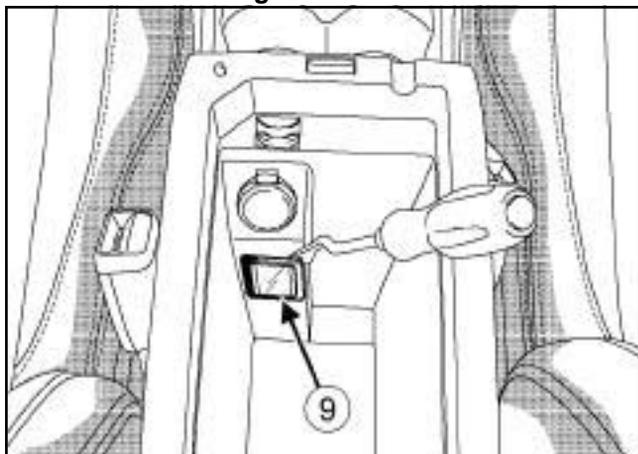
## Interior lighting: List and location of components

### 8 - Luggage compartment light



130642

### 9 - Centre console light



130643

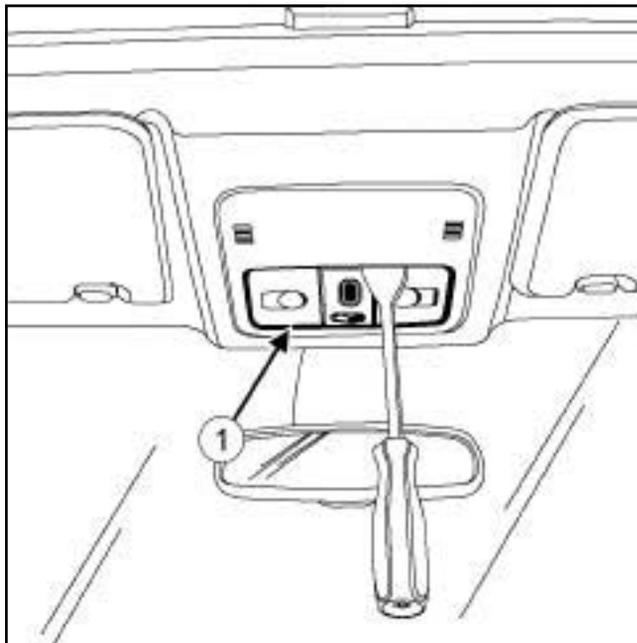
# INTERIOR LIGHTING

## Interior light: Removal - Refitting

# 81B

### REMOVAL

#### OPERATION FOR REMOVAL OF PART CONCERNED



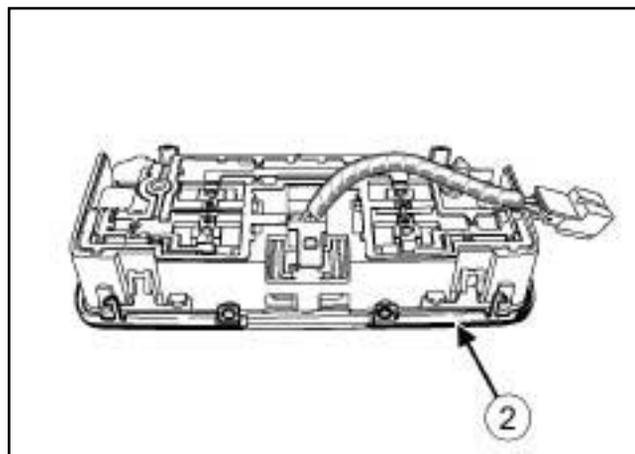
130644

□

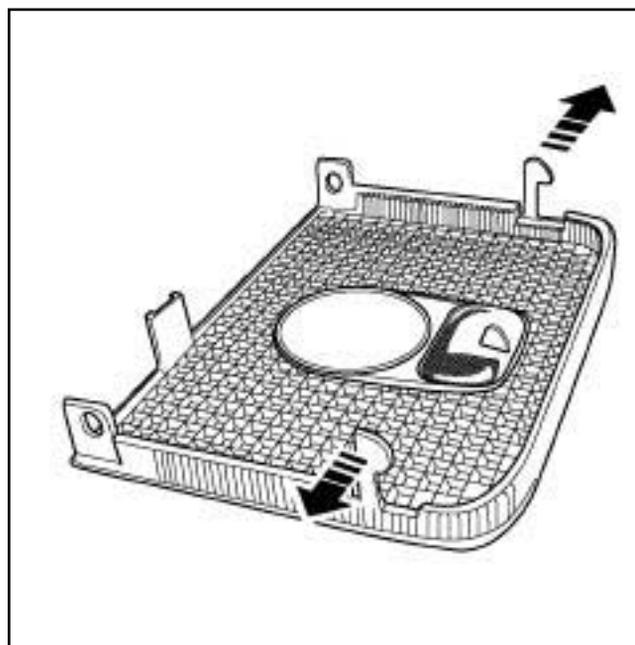
#### Note:

If using a flat-blade screwdriver, protect the courtesy light unit with a cloth.

- Unclip the courtesy light (1) using a small flat-blade screwdriver.
- Disconnect the connector.



130645



130646

- Unclip the transparent cover (2) .
- Remove the bulb.

### REFITTING

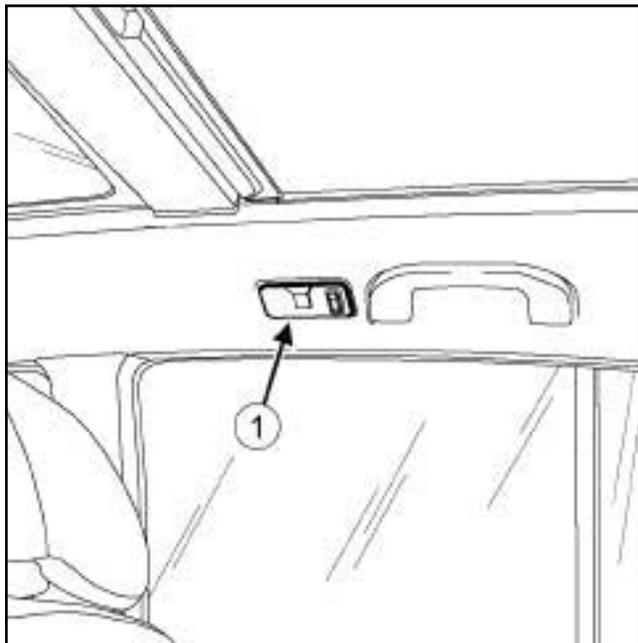
#### REFITTING OPERATION FOR PART CONCERNED

- When replacing the bulb, use an approved **12V 8W** bulb.
- Connect the courtesy lights connector.
- Refit the courtesy light.

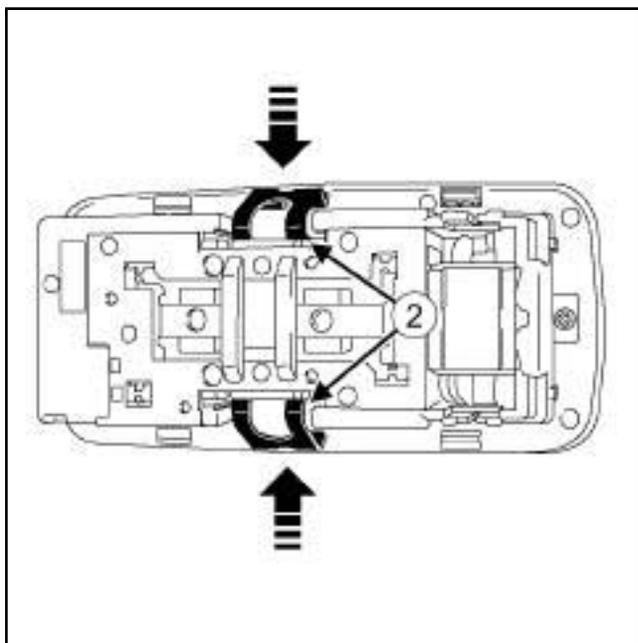
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### REMOVAL

#### OPERATION FOR REMOVAL OF PART CONCERNED

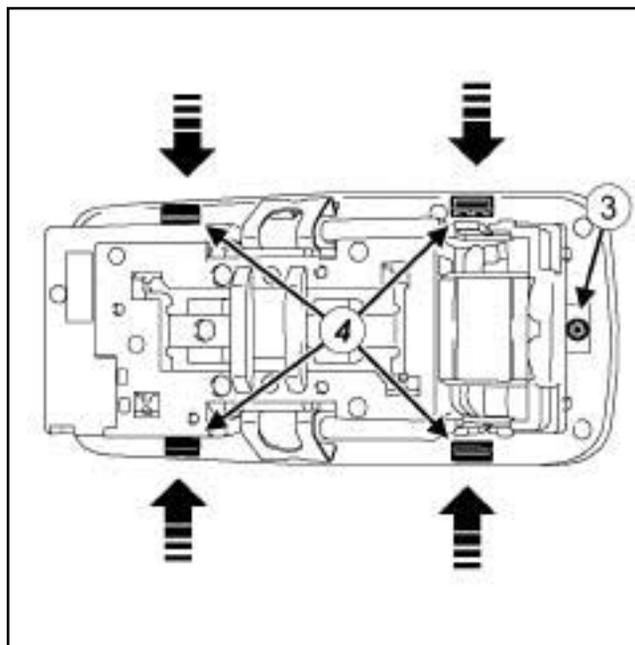


130657



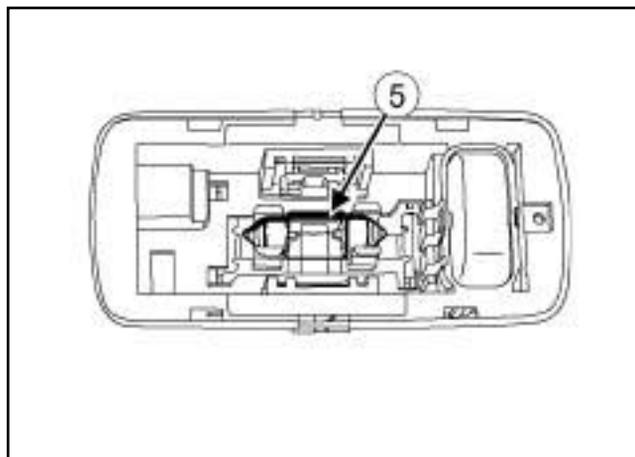
130658

- Remove the headlining light (1) by unclipping the clips (2) using a small flat-blade screwdriver.
- Disconnect the connector.



130659

- Remove the bolt (3) .
- Unclip the translucent cover at (4) .



130660

- Remove the bulb (5) .

### REFITTING

#### REFITTING OPERATION FOR PART CONCERNED

- When replacing a bulb, use an approved **12V 8W** bulb.
- Refit the bulb.
- Clip the translucent cover in place.
- Refit the bolt.
- Connect the connector.
- Refit the headlining light.

# INTERIOR LIGHTING

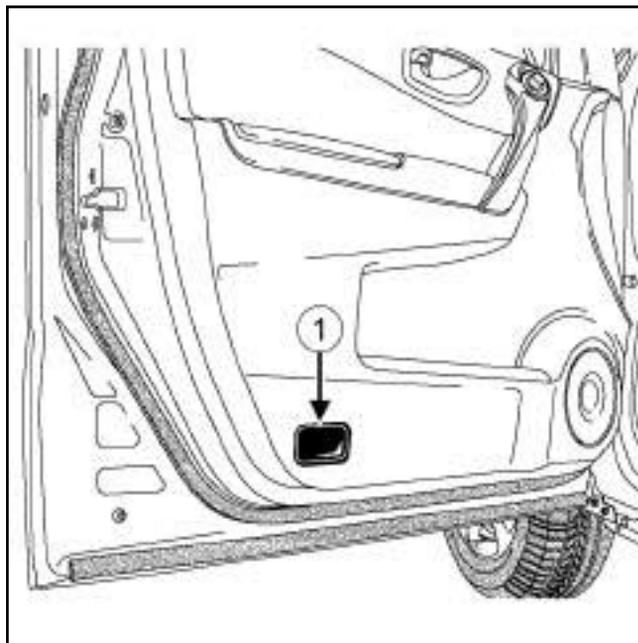
## Lower door light: Removal - Refitting

# 81B

### REMOVAL

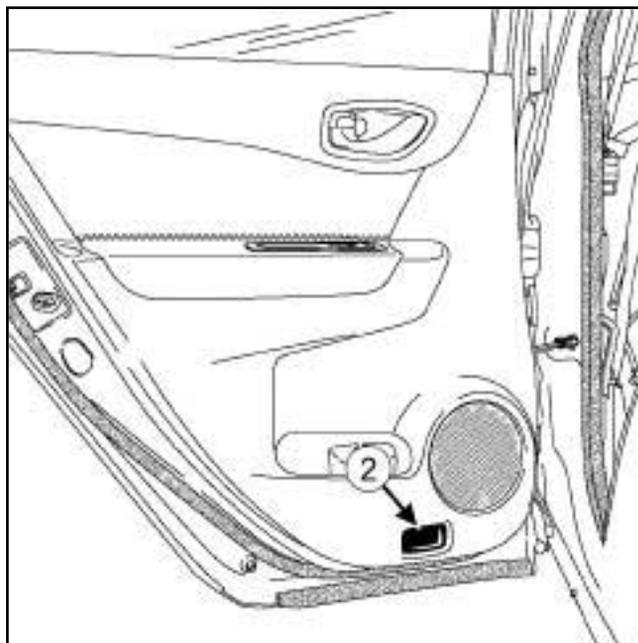
#### OPERATION FOR REMOVAL OF PART CONCERNED

##### Front door side



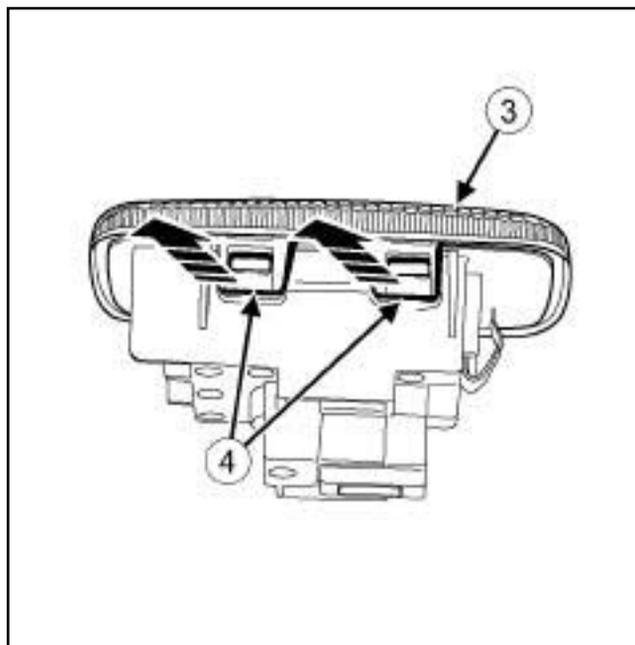
130647

##### Rear door side



130648

- Remove the lower door light (1) or (2) using a small flat-blade screwdriver.
- Disconnect the connector.



130649

- Remove the translucent cover (3) by unclipping the clips (4).

### REFITTING

#### REFITTING OPERATION FOR PART CONCERNED

- When replacing the bulb, use an approved **12V 5W** bulb.
- Refit the translucent cover.
- Connect the connector.
- Refit the lower door light.

# INTERIOR LIGHTING

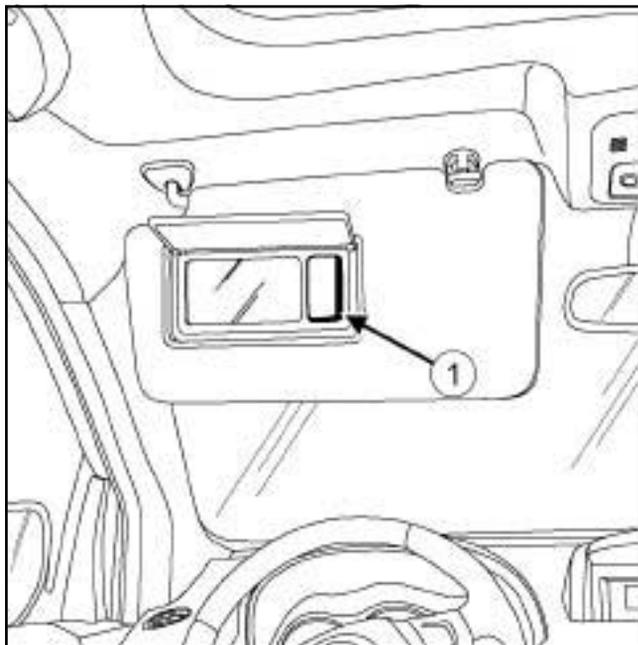
## Courtesy light: Removal - Refitting

# 81B

SUN VISOR + MIRROR WITH LIGHTING

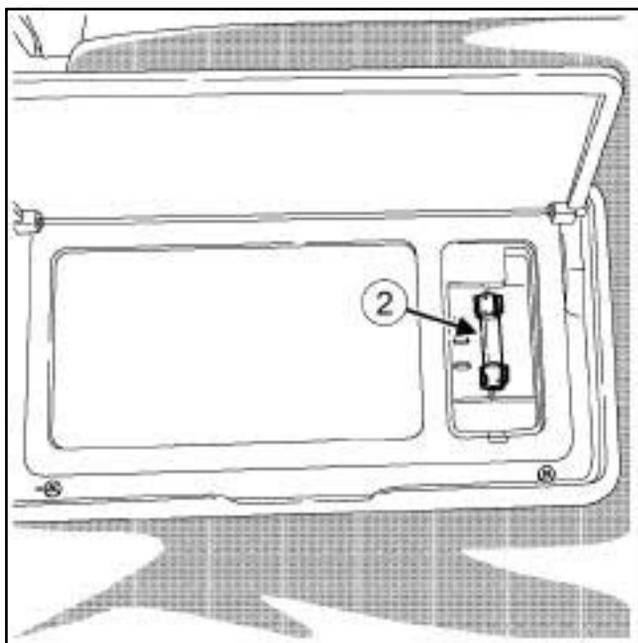
### REMOVAL

#### OPERATION FOR REMOVAL OF PART CONCERNED



130650

- Unclip the courtesy light translucent cover (1) using a small flat-blade screwdriver.



130651

- Remove the bulb (2) .

### REFITTING

#### REFITTING OPERATION FOR PART CONCERNED

- When replacing the bulb, use an approved **12V 0.25 A bulb**.
- Refit:
  - the bulb,
  - the translucent cover.

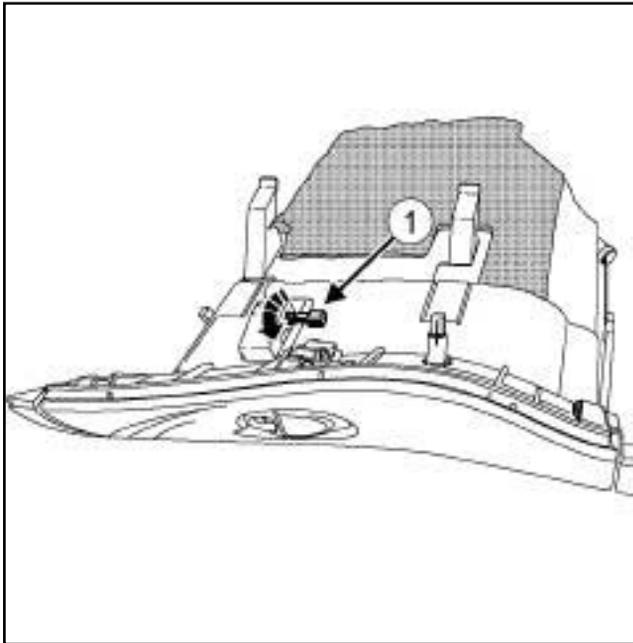
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### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

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

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



130652

- Disconnect the storage compartment light connector.
- Remove the bulb and mounting assembly (1) by rotating in an anti-clockwise direction.

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

- When replacing the storage compartment light bulb, replace the storage compartment light assembly.
- Refit the storage compartment light (1) by rotating it clockwise.
- Connect the connector.

#### II - FINAL OPERATION

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

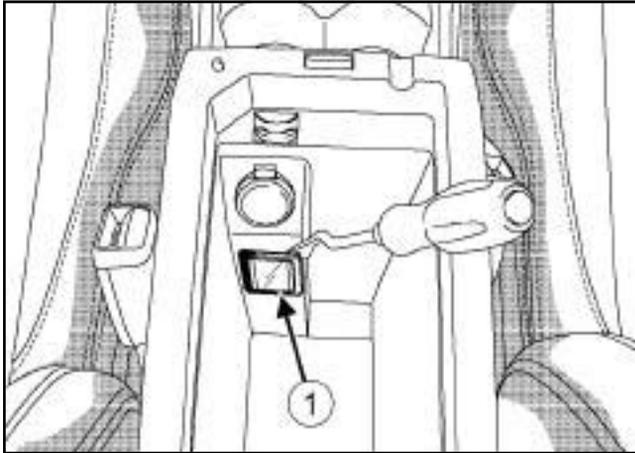
# INTERIOR LIGHTING

## Centre console light: Removal - Refitting

81B

### REMOVAL

#### OPERATION FOR REMOVAL OF PART CONCERNED



130653

- Remove the centre console light (1) using a small flat-blade screwdriver.
- Disconnect the connector.
- Remove the bulb.

### REFITTING

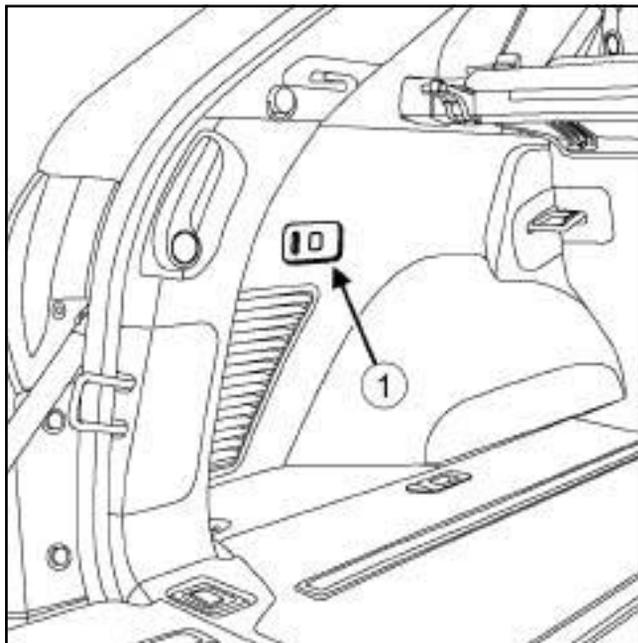
#### REFITTING OPERATION FOR PART CONCERNED

- Connect the connector.
- Refit the centre console light.

## Luggage compartment light: Removal - Refitting

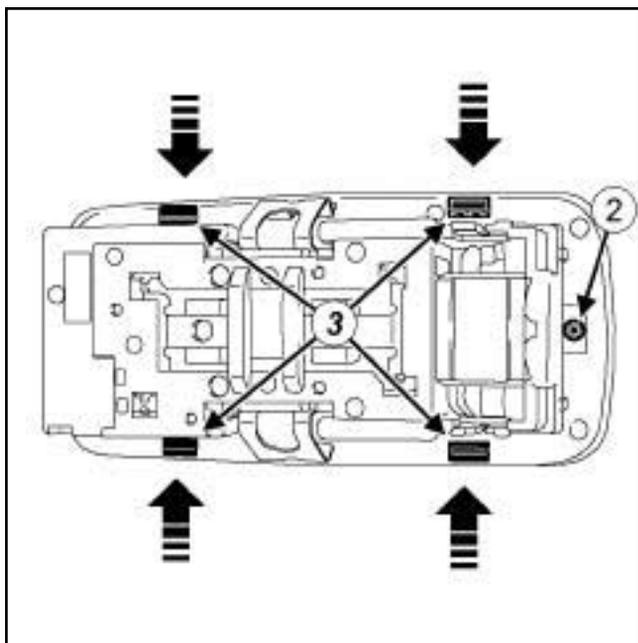
### REMOVAL

#### OPERATION FOR REMOVAL OF PART CONCERNED



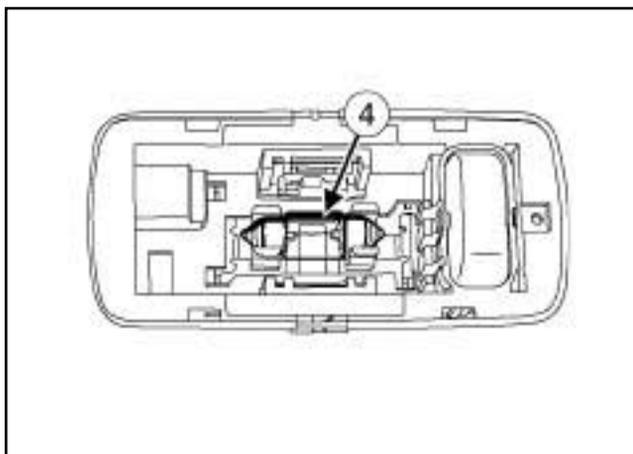
130654

- Unclip the luggage compartment light (1) by compressing the clip using a small flat-blade screwdriver.
- Disconnect the connector.



130655

- Remove the bolt (2) .
- Unclip the translucent cover by unclipping the clips (3) .



130656

- Remove the bulb (4) .

### REFITTING

#### REFITTING OPERATION FOR PART CONCERNED

- When replacing the bulb, use an approved **12V 8W** bulb.
- Refit the bulb.
- Clip the translucent cover in place.
- Refit the bolt.
- Connect the connector.
- Refit the luggage compartment light.

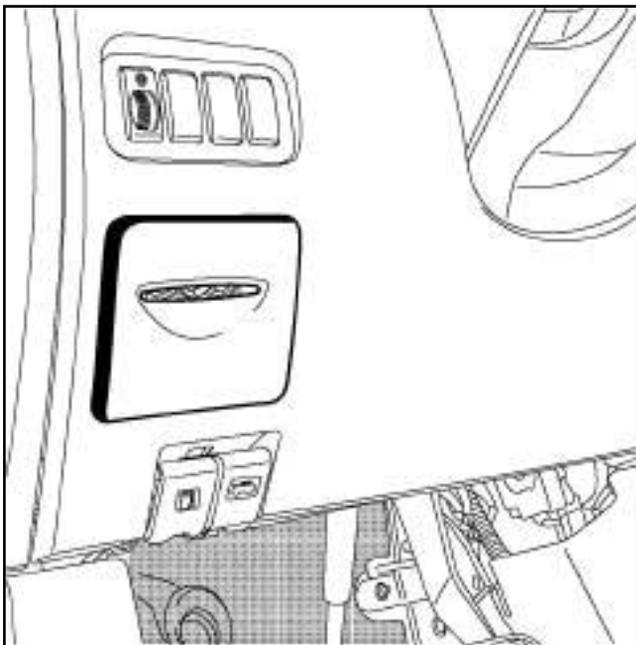
## Fuses: List and location of components

### I - LIST OF COMPONENTS

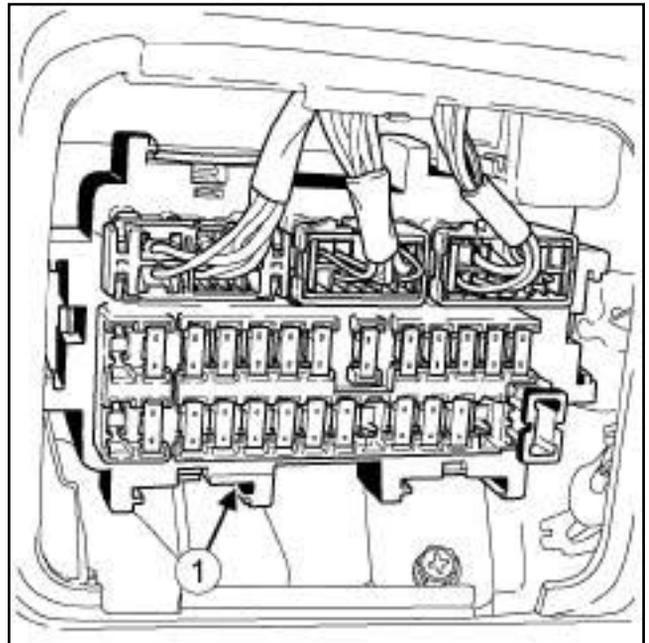
No.	Description
(1)	Passenger compartment fuse and relay box
(2)	Engine fuse and relay box / supply fuse board
(3)	Battery protection fuses
(4)	Engine compartment connection unit

### II - LOCATION OF COMPONENTS

#### 1 - Passenger compartment fuse and relay box

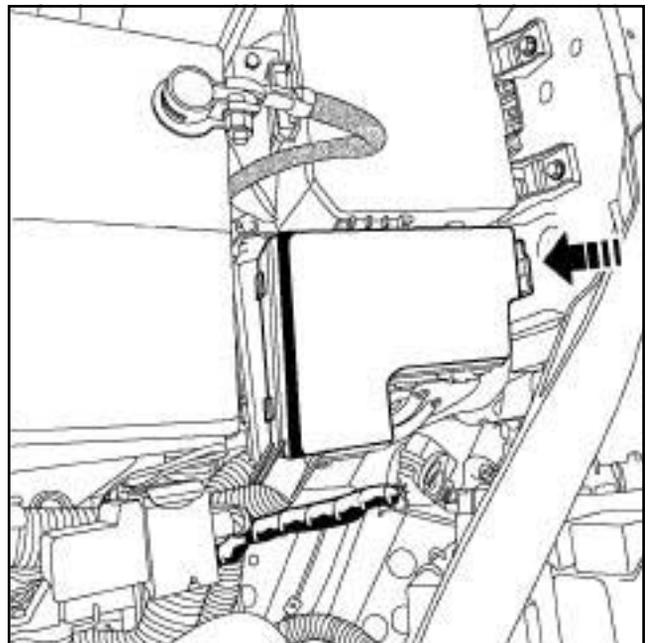


130367



130368

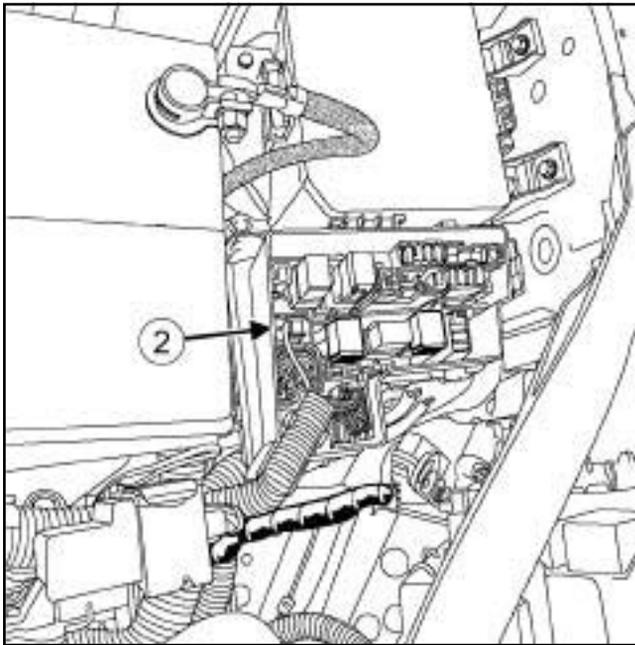
#### 2 - Engine fuse and relay box / supply fuse board



130369

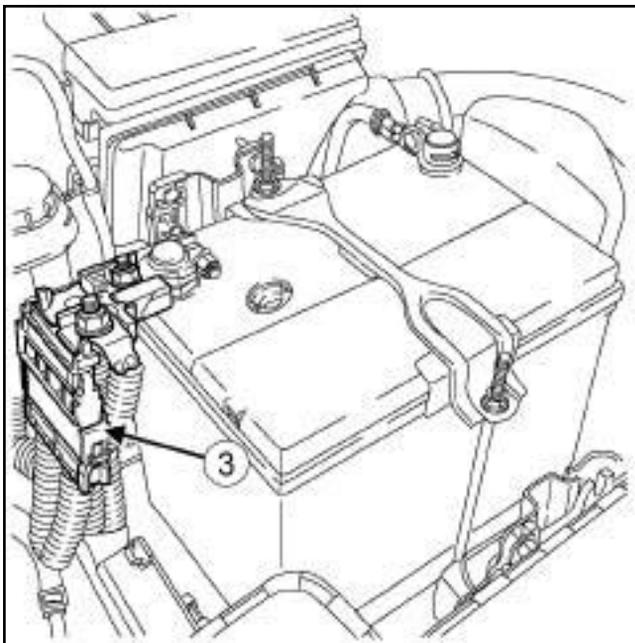
cardiagn.com

## Fuses: List and location of components



130370

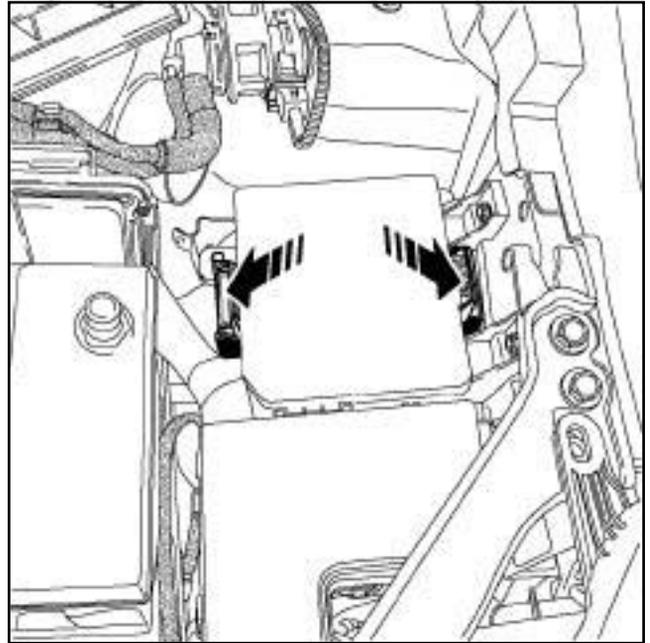
### 3 - Battery protection fuses



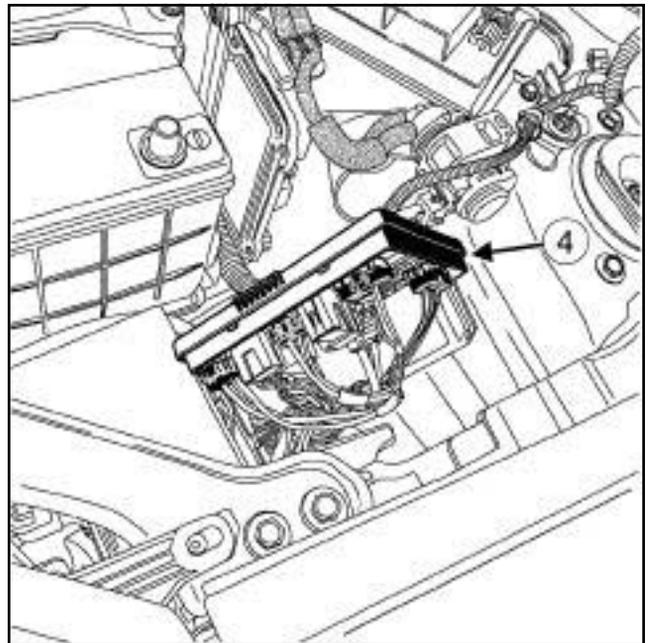
130371

These fuses are located on the positive battery terminal.

### 4 - Engine compartment connection unit



130372



130373

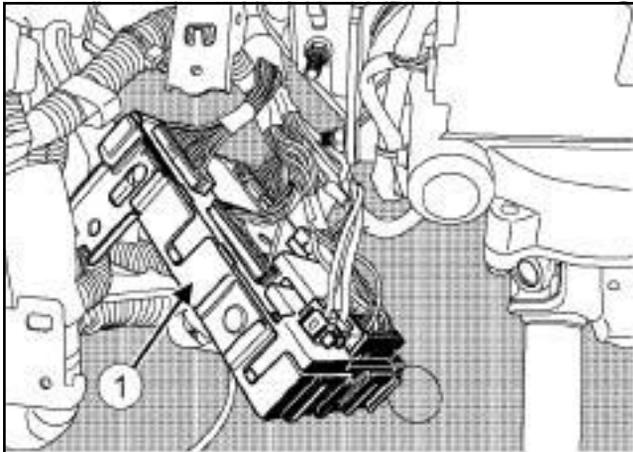
cardiagn.com

### I - LIST OF COMPONENTS

No.	Description
(1)	UCH
(2)	Front starting aerial
(3)	Central starting aerial
(4)	Rear starting aerial
(5)	Start button
(6)	Card reader
(7)	Electric steering column lock
(8)	Card

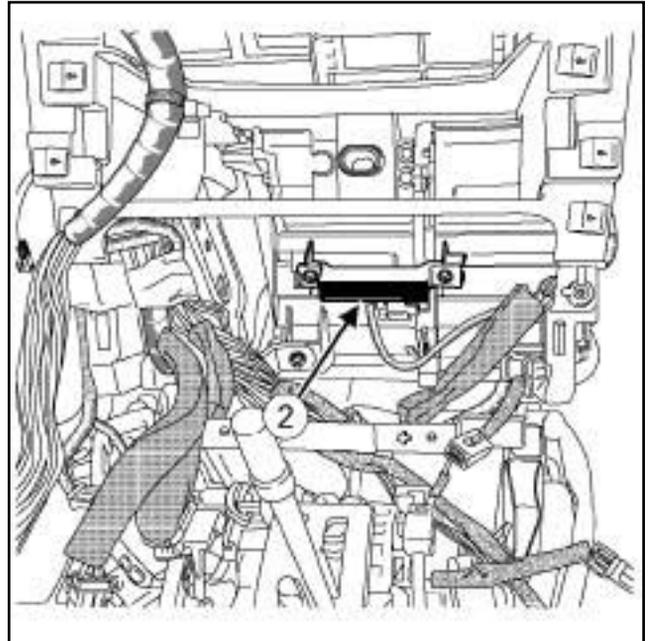
### II - LOCATION OF COMPONENTS

#### 1 - UCH



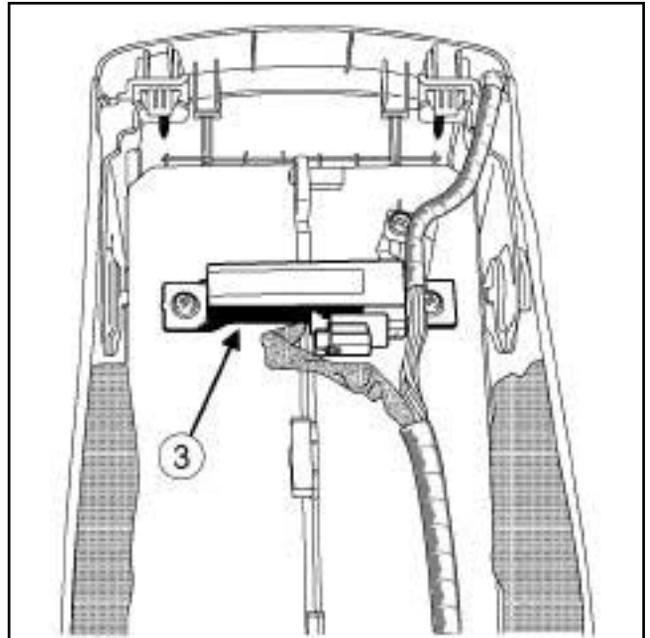
130661

#### 2 - Front starting aerial



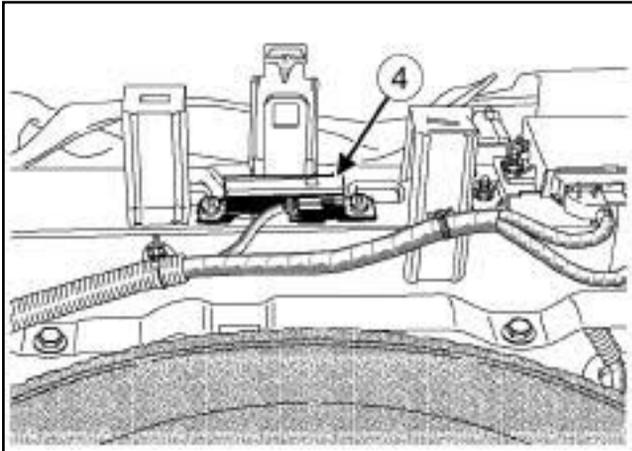
130662

#### 3 - Central starting aerial



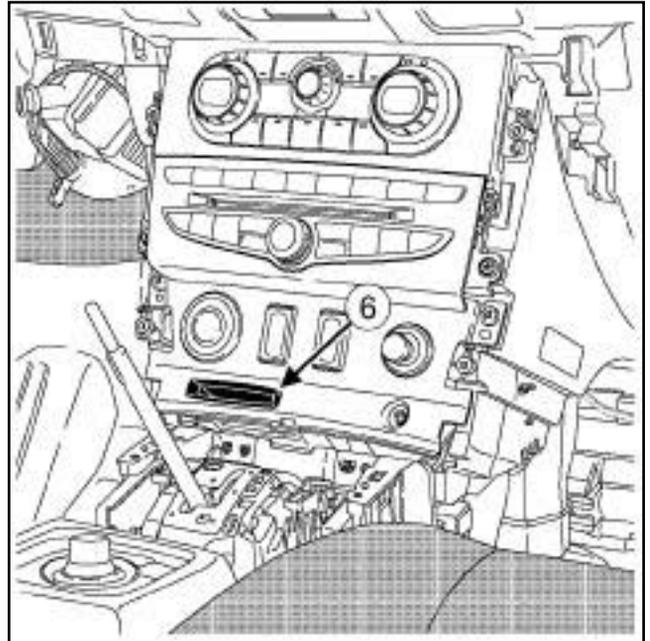
130663

4 - Rear starting aerial



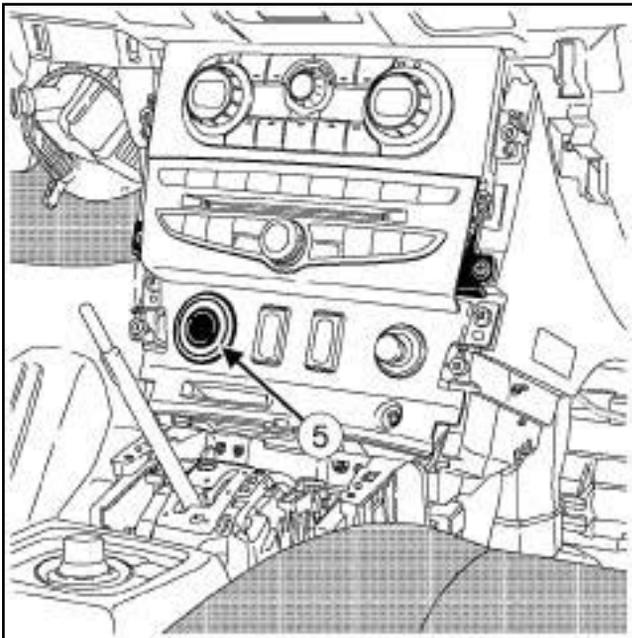
130664

6 - Card reader



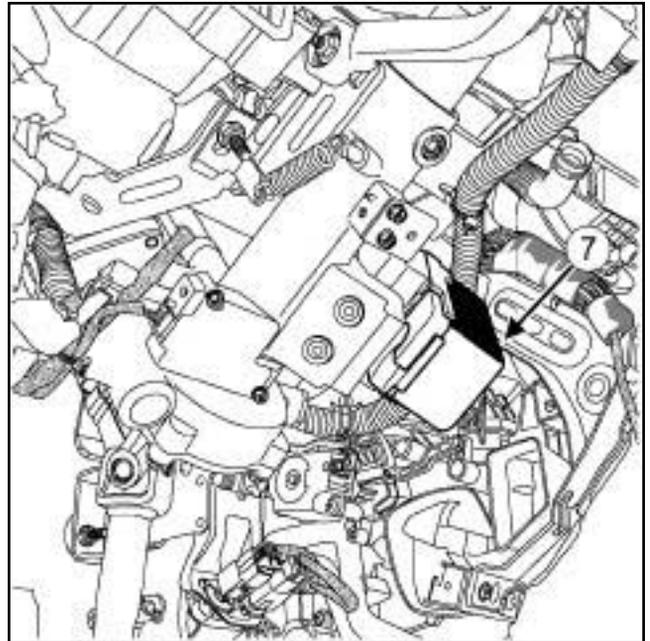
130666

5 - Start button



130665

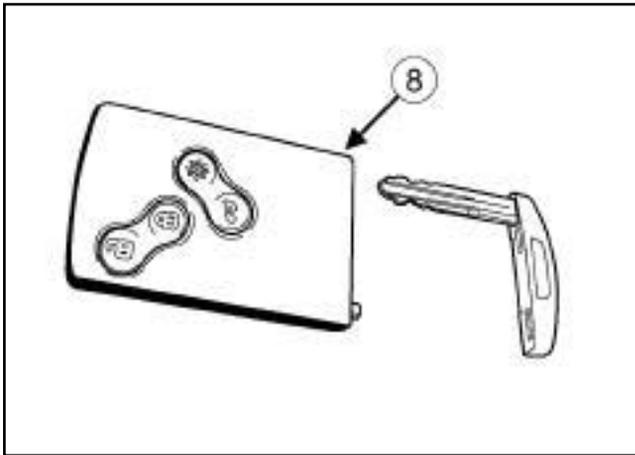
7 - Electric steering column lock



130667

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### 8 - Card



130668

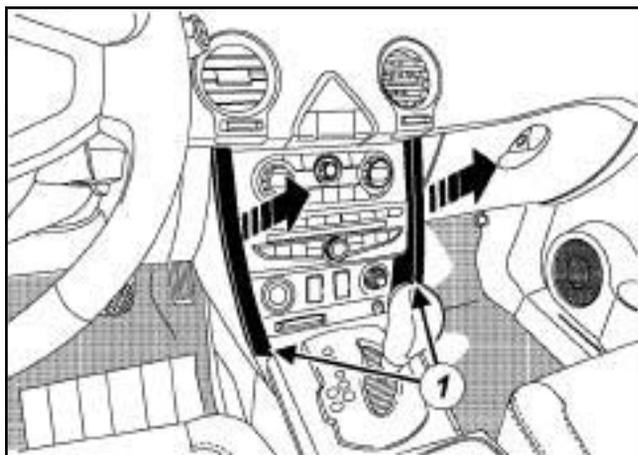
# ENGINE IMMOBILISER

## Start button: Removal - Refitting

# 82A

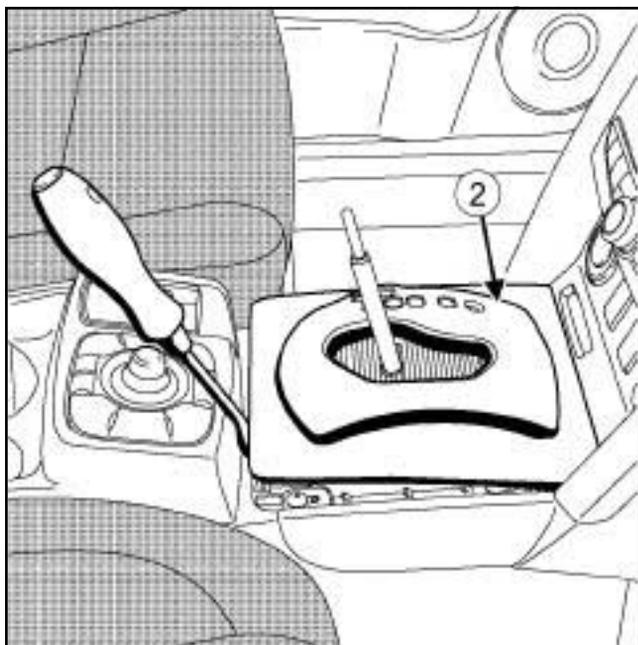
### REMOVAL

#### I - REMOVAL PREPARATION OPERATION



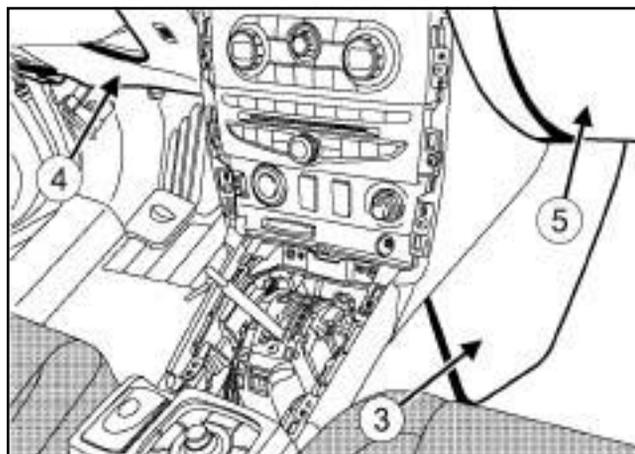
130758

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



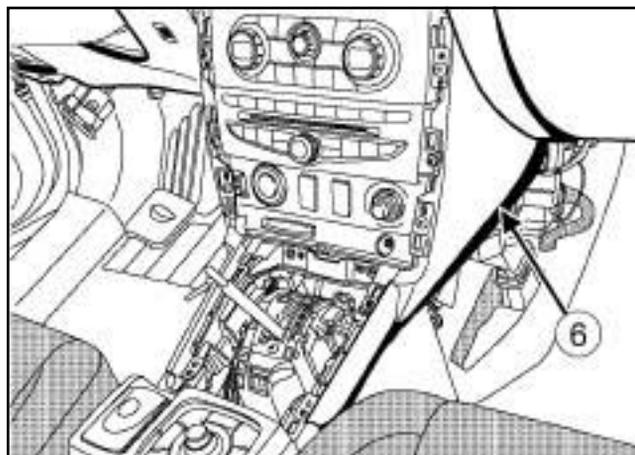
130670

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



130672

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



130673

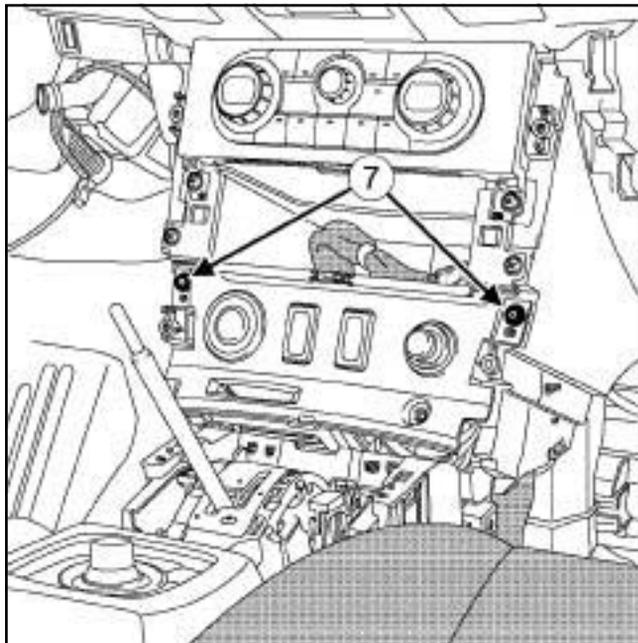
- ❑ Remove:
  - the side trims (6) from the centre front panel (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
  - the CD changer (see **86A, Radio, CD changer: Removal - Refitting**, page 86A-14),
  - the radio (see **86A, Radio, Radio: Removal - Refitting**, page 86A-4).

# ENGINE IMMOBILISER

## Start button: Removal - Refitting

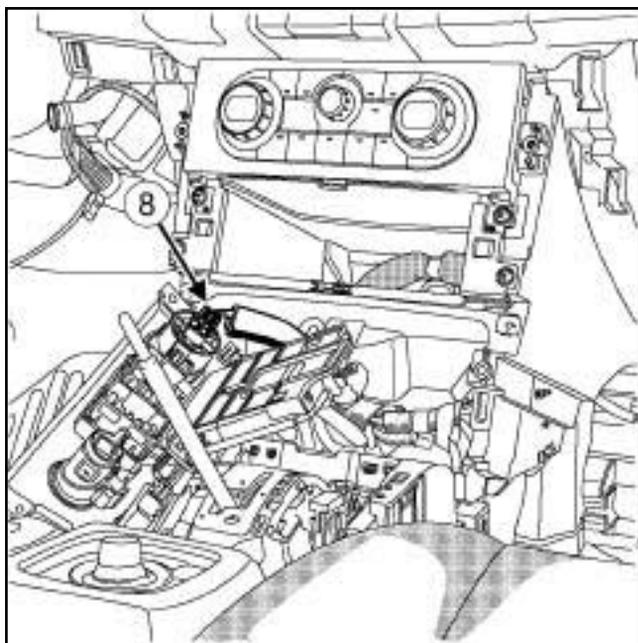
# 82A

### II - OPERATION FOR REMOVAL OF PART CONCERNED



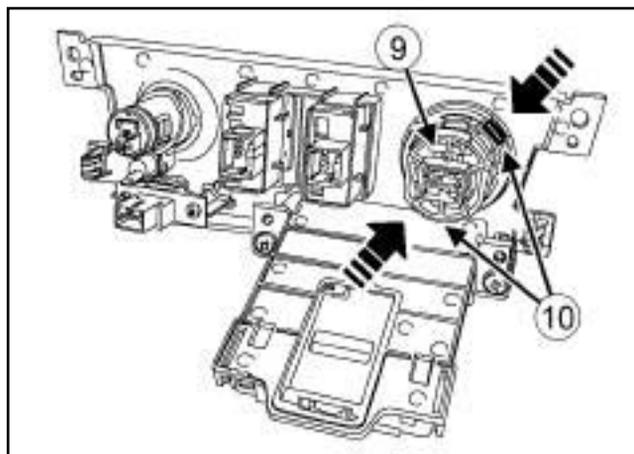
130674

- Remove:
  - the bolts (7) ,
  - the starter control panel.



130675

- Disconnect the connector (8) .



130676

- Remove the start button (9) by squeezing the clips (10) .

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

- Refit the start button on the control panel.
- Connect the start button connector.
- Refit:
  - the starter control panel,
  - the starter control panel bolts.

#### II - FINAL OPERATION

- Refit:
  - the radio (see **86A, Radio, Radio: Removal - Refitting**, page **86A-4**) ,
  - the CD changer (see **86A, Radio, CD changer: Removal - Refitting**, page **86A-14**) ,
  - the side trims (6) of the centre front panel (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
  - the glovebox (see **Glovebox: Removal - Refitting**) (57A, Interior equipment),
  - the dashboard lower cover (4) on the driver's side (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
  - the lower covers (3) of the centre front panel (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
  - the plate (2) of the gear lever (see **Centre console: Removal - Refitting**) (57A, Interior equipment),

# ENGINE IMMOBILISER

## Start button: Removal - Refitting

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**82A**

- the side trim *(1)* of the centre front panel.

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### Equipment required

Diagnostic tool

### Tightening torques

electric steering column lock bolts	15 N.m
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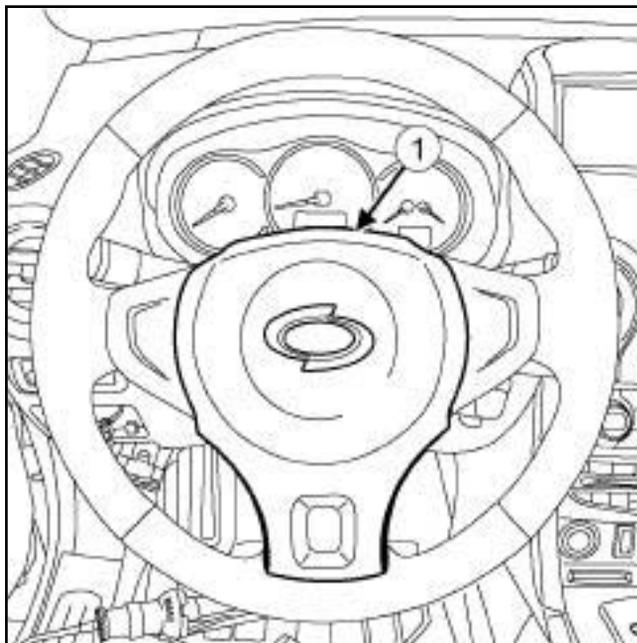
## REMOVAL

### I - REMOVAL PREPARATION OPERATION

#### IMPORTANT

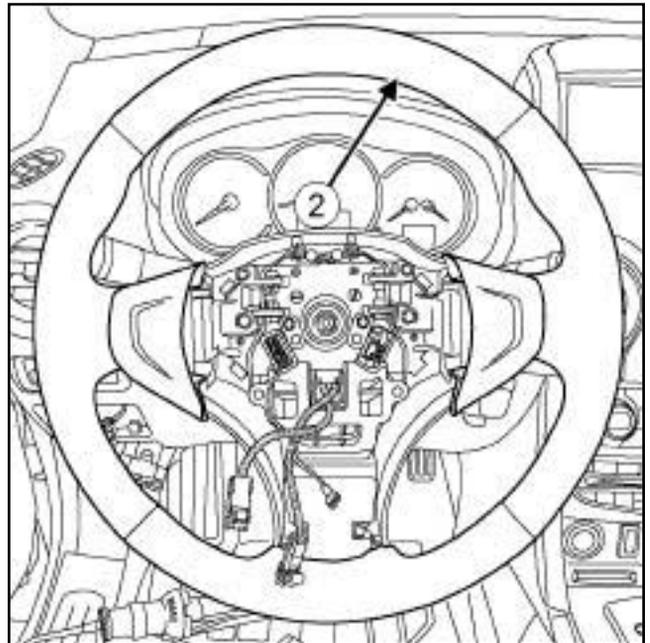
To prevent the pyrotechnic components from being permanently deactivated or triggered (air-bags or pretensioners), wait for at least **3 min** after disconnecting the battery.

- Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**).



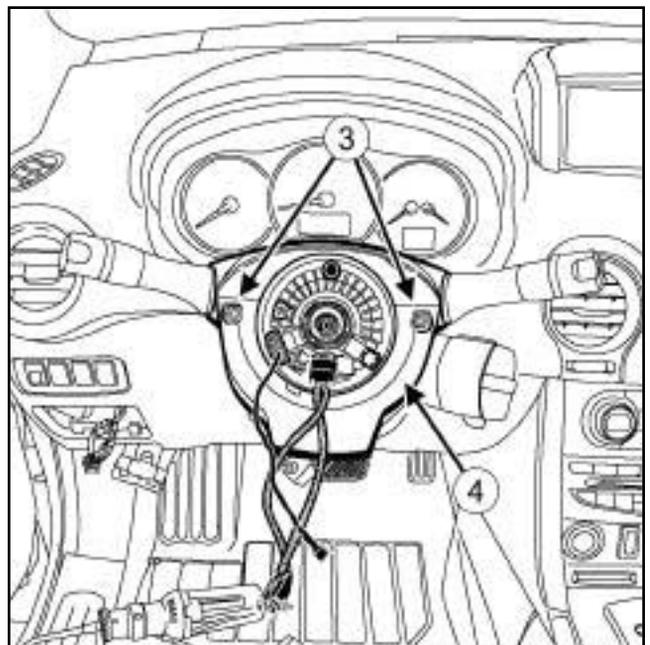
130677

- Remove the driver's front airbag (1) (see **88C, Air bag and Pretensioners, Driver's frontal airbag: Removal - Refitting**, page **88C-10**).



130678

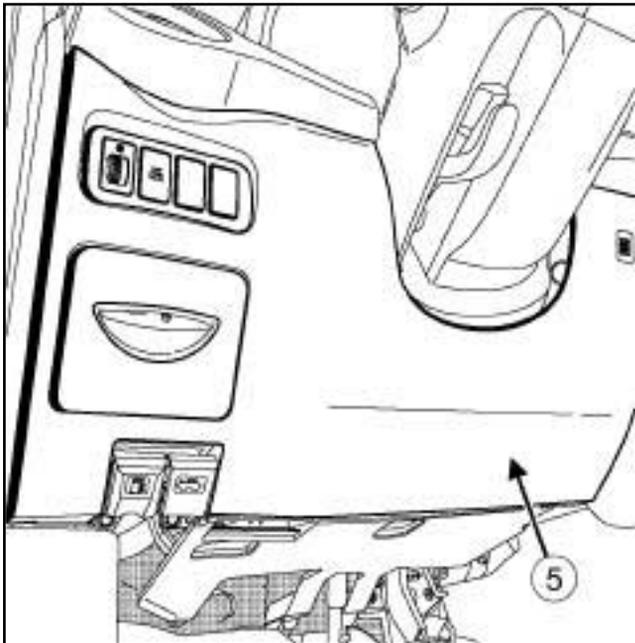
- Remove the steering wheel (2) (see **Steering wheel: Removal - Refitting**) (36A, Steering assembly).



130679

- Remove:
- the bolts (3),
  - the cover (4),
  - the radio control satellite (see **86A, Radio, Radio control satellite: Removal - Refitting**, page **86A-17**),
  - the steering column lower cover.

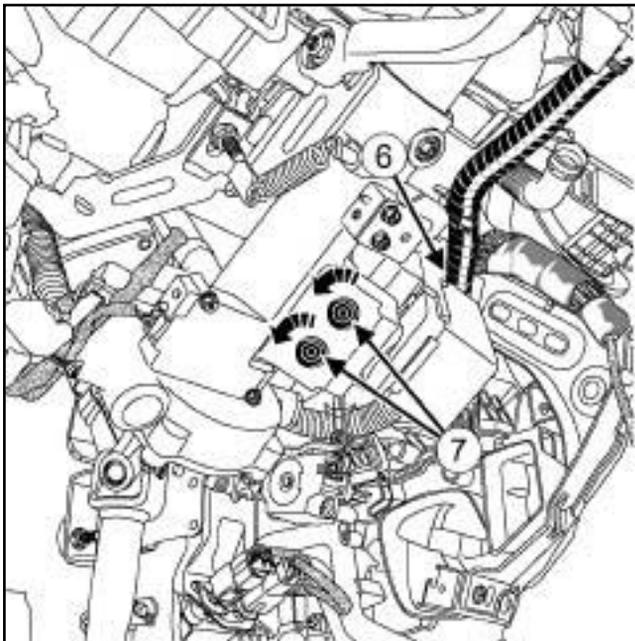
## Electric steering column lock: Removal - Refitting



130680

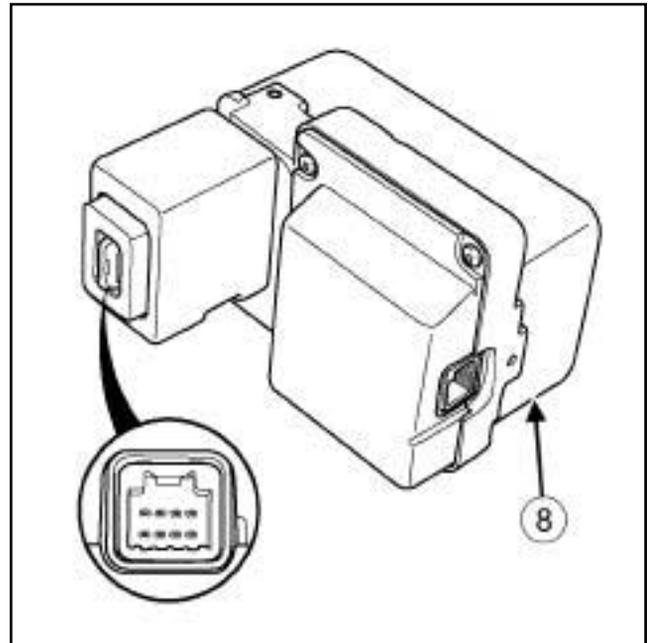
- Remove the dashboard lower cover (5) on the driver's side (see **Dashboard: Removal - Refitting** (57A, Interior equipment)).

## II - OPERATION FOR REMOVAL OF PART CONCERNED



130681

- Disconnect the electric steering column lock connector (6).
- Remove the bolts (7) from the electric steering column lock by rotating them anticlockwise using a punch.



130682

- 

### Note:

To remove the electric steering column lock, it must be in the « unlocked » position.

- Remove the electric steering column lock (8).

## REFITTING

### I - REFITTING OPERATION FOR PART CONCERNED

- Refit the electric steering column lock.

### Note:

The electric steering column lock bolts are shearing bolts. A tightening torque of **16 N.m** will cut off the bolt head.

- Torque tighten the **electric steering column lock bolts (15 N.m)**.
- Connect the electric steering column lock connector.

### Note:

To program the electric steering column lock, the immobiliser code must be stored in the computer. Running tests with computers borrowed from the Parts Department or from another vehicle which must then be returned is prohibited.

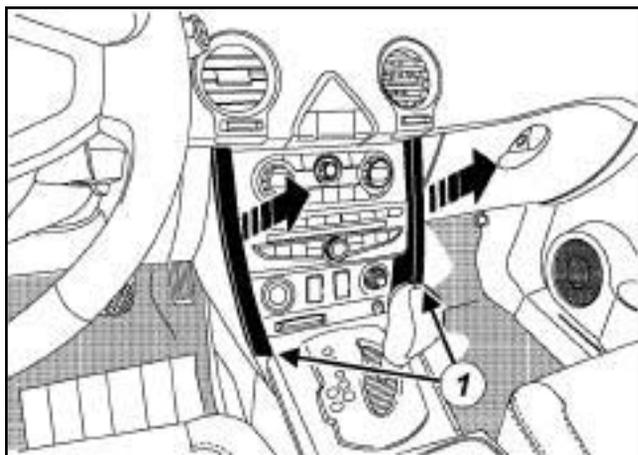
## Electric steering column lock: Removal - Refitting

## II - FINAL OPERATION

- Refit:
  - the dashboard lower cover on the driver's side (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
  - the steering column lower cover,
  - the radio control satellite (see **86A, Radio, Radio control satellite: Removal - Refitting**, page 86A-17) ,
  - the cover,
  - the bolts,
  - the steering wheel (see **Steering wheel: Removal - Refitting**) (36A, Steering assembly),
  - the driver's front airbag (see **88C, Air bag and Pre-tensioners, Driver's frontal airbag: Removal - Refitting**, page 88C-10) .
- Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page 80A-3) .
- When replacing the steering column electric lock, carry out the necessary operations using the **Diagnostic tool** (see **Replacement of components**) (87B, Passenger compartment connection unit).

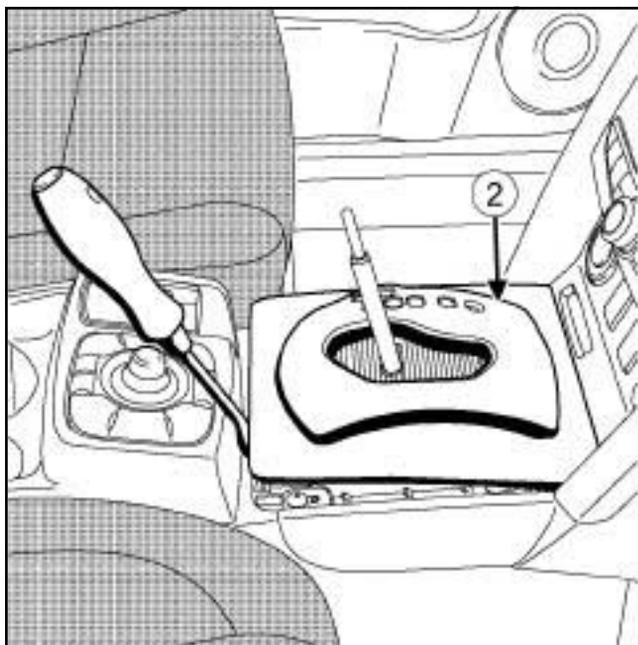
REMOVAL

I - REMOVAL PREPARATION OPERATION



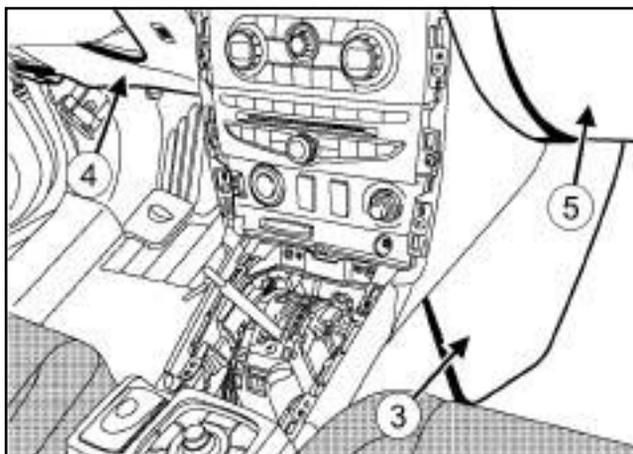
130758

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



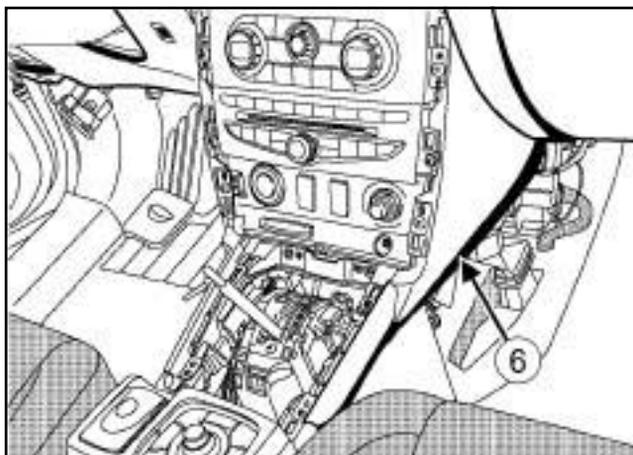
130684

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



130685

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



130686

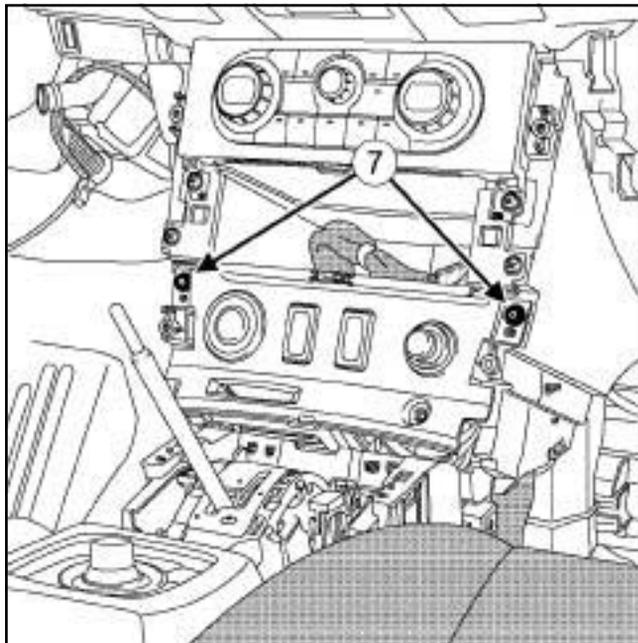
- ❑ Remove:
  - the side trims (6) from the centre front panel (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
  - the CD changer (see **86A, Radio, CD changer: Removal - Refitting**, page 86A-14) ,
  - the radio (see **86A, Radio, Radio: Removal - Refitting**, page 86A-4) .

# ENGINE IMMOBILISER

## Card reader: Removal - Refitting

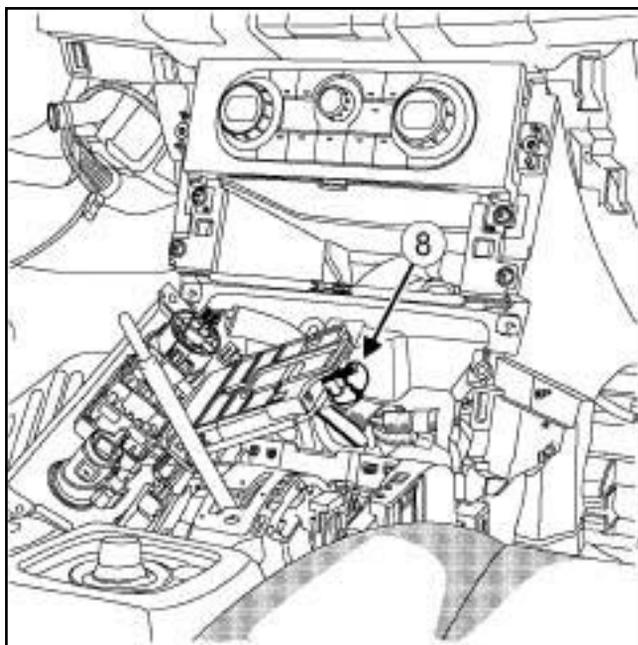
# 82A

### II - OPERATION FOR REMOVAL OF PART CONCERNED



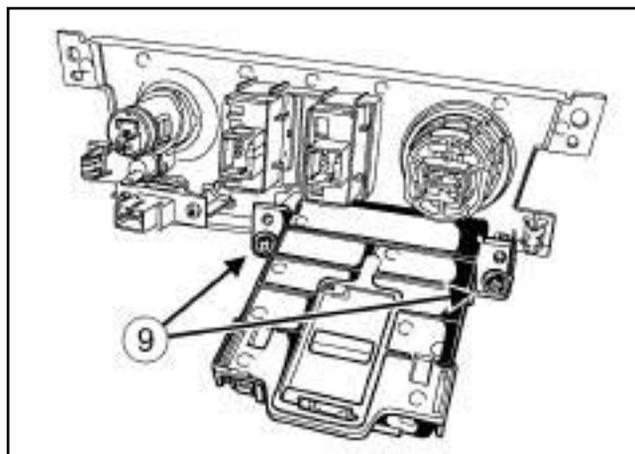
130687

- Remove:
  - the starter control panel bolts (7) ,
  - the starter control panel.



130688

- Disconnect the connector (8) .



130689

- Remove:
  - the card reader bolts (9) ,
  - the card reader.

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

- Refit:
  - the card reader,
  - the card reader bolts.
- Connect the card reader connector.
- Refit:
  - the starter control panel,
  - the starter control panel bolts.

#### II - FINAL OPERATION

- Refit:
  - the radio (see **86A, Radio, Radio: Removal - Refitting**, page **86A-4**) ,
  - the CD changer (see **86A, Radio, CD changer: Removal - Refitting**, page **86A-14**) ,
  - the side trims (6) of the centre front panel (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
  - the glovebox (see **Glovebox: Removal - Refitting**) (57A, Interior equipment),
  - the dashboard lower cover (4) on the driver's side (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),

# ENGINE IMMOBILISER

## Card reader: Removal - Refitting

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**82A**

- the lower covers **(3)** of the centre front panel (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
- the plate **(2)** of the gear lever (see **Centre console: Removal - Refitting**) (57A, Interior equipment),
- the side trims **(1)** of the centre front panel.

# ENGINE IMMOBILISER

## Starting aerial: Removal - Refitting

# 82A

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

##### 1 - Front starting aerial



#### IMPORTANT

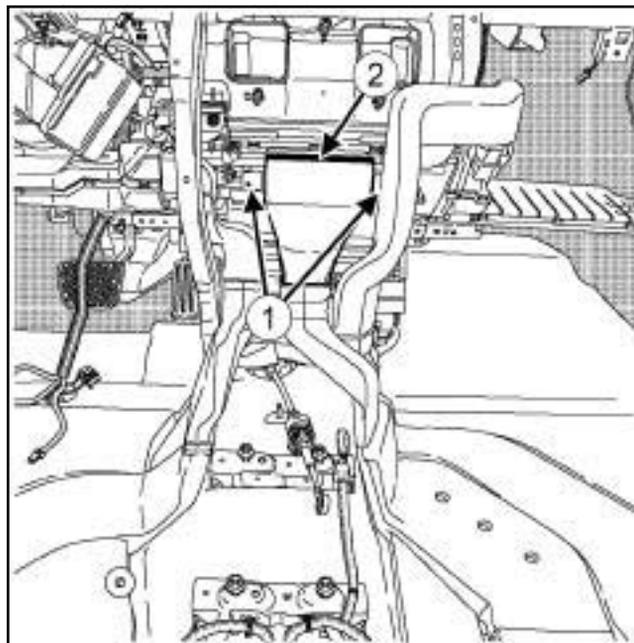
To prevent the pyrotechnic components from being permanently deactivated or triggered (airbags or pretensioners), wait for at least **3 min** after disconnecting the battery.

- Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**).

- Remove:

- the driver's front airbag (see **88C, Air bag and Pretensioners, Driver's frontal airbag: Removal - Refitting**, page **88C-10**),
- the steering wheel (see **Steering wheel: Removal - Refitting**) (36A, Steering assembly),
- the radio control satellite (see **86A, Radio, Radio control satellite: Removal - Refitting**, page **86A-17**),
- the half cowlings (see **Steering column: Removal - Refitting**) (36A, Steering assembly),
- the rotary switch (see **84A, Control - Signals, Rotary switch: Removal - Refitting**, page **84A-2**),
- the steering column switch assembly (see **84A, Control - Signals, Steering column switch assembly: Removal - Refitting**, page **84A-4**),
- the instrument panel (see **83A, Instrument panel, Instrument panel: Removal - Refitting**, page **83A-1**),
- the front centre speaker (see **86A, Radio, Front speakers: Removal - Refitting**, page **86A-11**),
- the display (see **86A, Radio, Display: Removal - Refitting**, page **86A-15**),
- the tweeter (see **86A, Radio, Tweeter: Removal - Refitting**, page **86A-10**),
- the solar radiation detector (see **Solar radiation sensor: Removal - Refitting**),
- the CD multi-changer (see **86A, Radio, CD changer: Removal - Refitting**, page **86A-14**),
- the radio (see **86A, Radio, Radio: Removal - Refitting**, page **86A-4**),
- the control panel (see **Control panel: Removal - Refitting**) (61A, Heating),

- the starter control panel (see **82A, Engine immobiliser, Card reader: Removal - Refitting**, page **82A-10**),
- the glovebox (see **Glovebox: Removal - Refitting**) (57A, Interior equipment),
- the central console (see **Centre console: Removal - Refitting**) (57A, Interior equipment),
- the dashboard (see **Dashboard: Removal - Refitting**) (57A, Interior equipment).



130690

- Remove:

- the bolts (1),
- the rear air distribution duct (2).

##### 2 - Central starting aerial

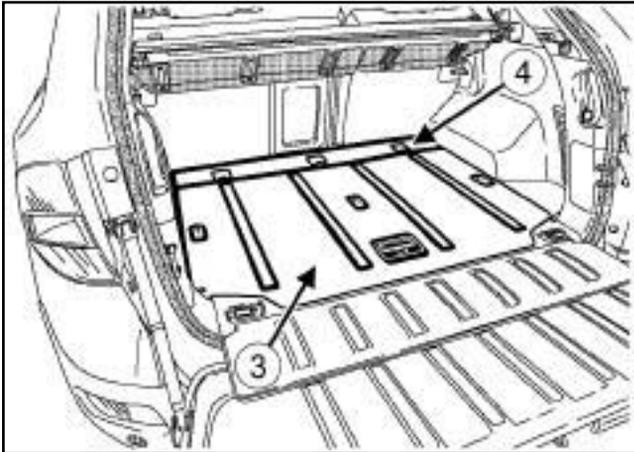
- Remove the centre console (see **Centre console: Removal - Refitting**) (57A, Interior equipment).

# ENGINE IMMOBILISER

## Starting aerial: Removal - Refitting

# 82A

### 3 - Rear starting aerial



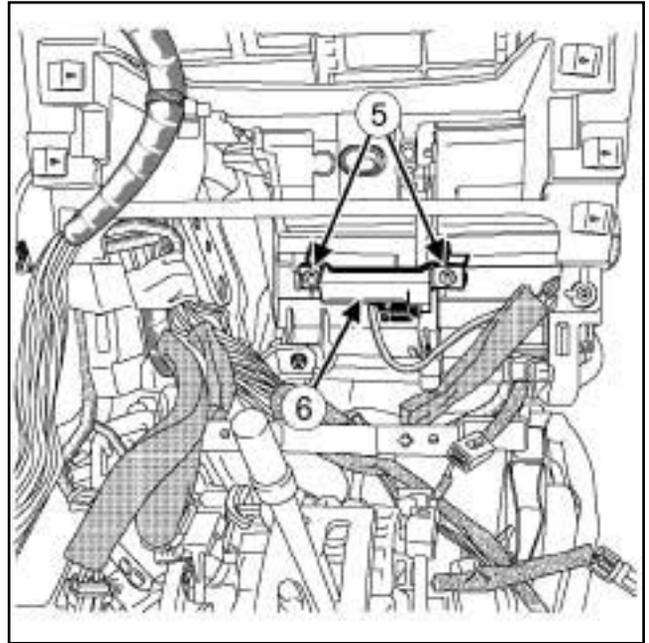
130691

#### ❑ Remove:

- the luggage compartment front centre floor trim (3) (see **Luggage compartment floor lining: Removal - Refitting**) (71A, Body internal trim),
- the luggage compartment front floor trim (4) (see **Luggage compartment floor lining: Removal - Refitting**) (71A, Body internal trim).

### II - OPERATION FOR REMOVAL OF PART CONCERNED

### 1 - Front starting aerial



130692

#### ❑ Remove:

- the mounting clips (5) ,
- the front starting aerial (6) .

#### ❑ Disconnect the front starting aerial connector.

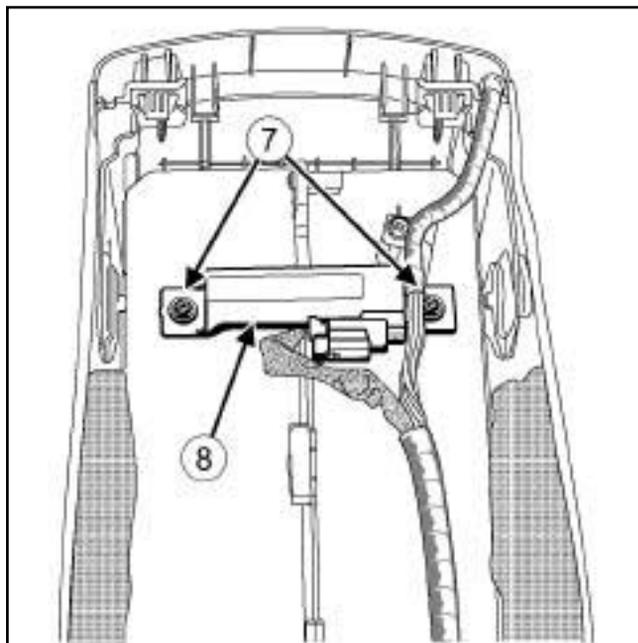
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# ENGINE IMMOBILISER

## Starting aerial: Removal - Refitting

# 82A

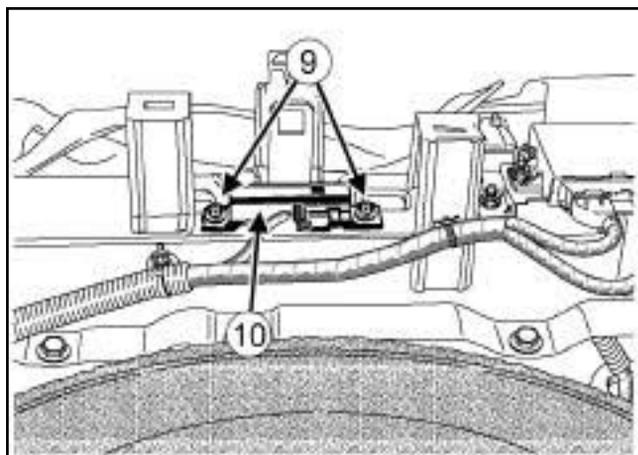
### 2 - Central starting aerial



130693

- Remove:
  - the mounting clips (7) ,
  - the central starting aerial (8) .
- Disconnect the front starting aerial connector.

### 3 - Rear starting aerial



130694

- Remove:
  - the mounting clips (9) ,
  - the rear starting aerial (10) .
- Disconnect the front starting aerial connector.

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

##### 1 - Front starting aerial

- Connect the front starting aerial connector.
- Refit:
  - the front starting aerial,
  - the mounting clips.

##### 2 - Central starting aerial

- Connect the front starting aerial connector.
- Refit:
  - the central starting aerial,
  - the mounting clips.

##### 3 - Rear starting aerial

- Connect the front starting aerial connector.
- Refit:
  - the rear starting aerial,
  - the mounting clips.

#### II - FINAL OPERATION.

##### 1 - Front starting aerial

- Refit:
  - the rear air distribution duct,
  - the rear air distribution duct bolts,
  - the dashboard (see **Dashboard: Removal - Refitting**) (57A, Interior equipment).
  - the central console (see **Centre console: Removal - Refitting**) (57A, Interior equipment),
  - the glovebox (see **Glovebox: Removal - Refitting**) (57A, Interior equipment),
  - the starter control panel (see **82A, Engine immobiliser, Card reader: Removal - Refitting**, page **82A-10**) ,
  - the control panel (see **Control panel: Removal - Refitting**) (61A, Heating),
  - the radio (see **86A, Radio, Radio: Removal - Refitting**, page **86A-4**) ,
  - the CD multi-changer (see **86A, Radio, CD changer: Removal - Refitting**, page **86A-14**) ,

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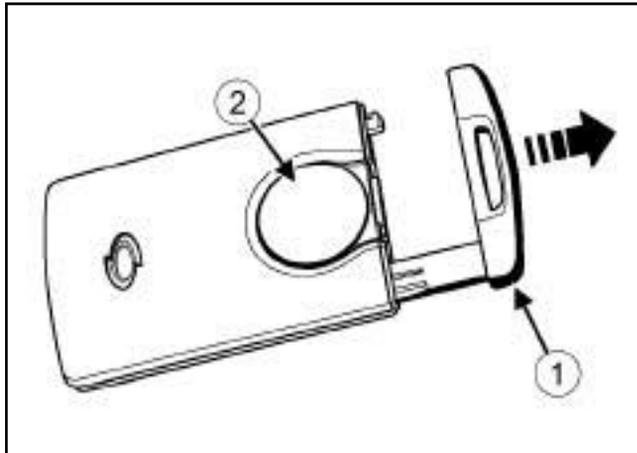
- the solar radiation detector (see **Solar radiation sensor: Removal - Refitting**) ,
  - the tweeter (see **86A, Radio, Tweeter: Removal - Refitting**, page **86A-10**) ,
  - the display (see **86A, Radio, Display: Removal - Refitting**, page **86A-15**) ,
  - the front centre speaker (see **86A, Radio, Front speakers: Removal - Refitting**, page **86A-11**) ,
  - 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-4**) ,
  - the rotary switch (see **84A, Control - Signals, Rotary switch: Removal - Refitting**, page **84A-2**) ,
  - the half cowlings (see **Steering column: Removal - Refitting**) (36A, Steering assembly),
  - the radio control satellite (see **86A, Radio, Radio control satellite: Removal - Refitting**, page **86A-17**) ,
  - the steering wheel (see **Steering wheel: Removal - Refitting**) (36A, Steering assembly),
  - the driver's front airbag (see **88C, Air bag and Pre-tensioners, Driver's frontal airbag: Removal - Refitting**, page **88C-10**) .
- Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**) .

### 2 - Central starting aerial

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

### 3 - Rear starting aerial

- Refit:
- the luggage compartment front floor trim (see **Luggage compartment floor lining: Removal - Refitting**) (71A, Body internal trim),
  - the luggage compartment front centre floor trim (see **Luggage compartment floor lining: Removal - Refitting**) (71A, Body internal trim).

**REMOVAL****OPERATION FOR REMOVAL OF PART CONCERNED**

130695

 Remove:

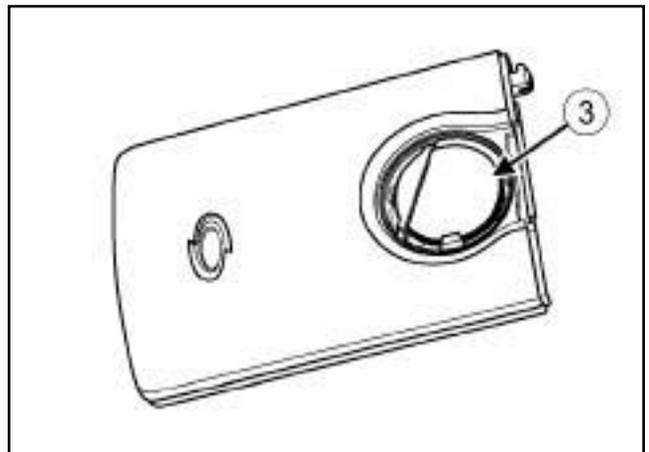
- the emergency key (1) ,
- the battery cover (2) from the door locking remote control using a flat-blade screwdriver,
- the door locking remote control battery.

**REFITTING****REFITTING OPERATION FOR PART CONCERNED**

**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.



130696

 Refit:

- the door locking remote control battery (3) using a flat-blade screwdriver,
- the door locking remote control battery cover,
- the emergency key.

## Audible warning: Removal - Refitting

Tightening torques 

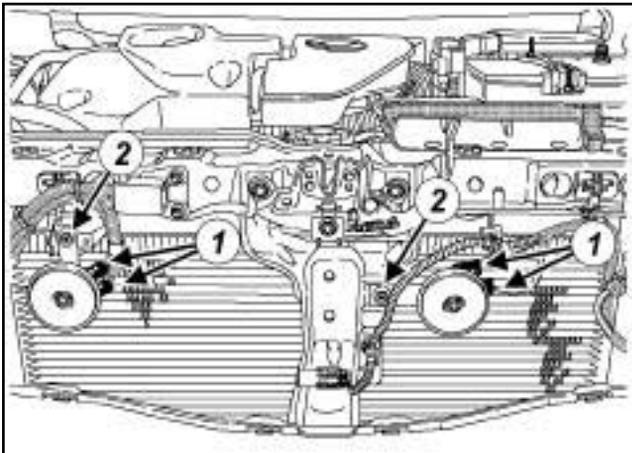
audible warning bolts	21 N.m
-----------------------	--------

## REMOVAL

## I - REMOVAL PREPARATION OPERATION

- Remove the front bumper (see **Front bumper: Removal - Refitting**) (55A, Exterior protection).

## II - OPERATION FOR REMOVAL OF PART CONCERNED



130839

- Disconnect the audible warning connectors (1) .
- Remove:
  - the audible warning bolts (2) ,
  - the audible warnings.

## REFITTING

## I - REFITTING OPERATION FOR PART CONCERNED

- Refit the audible warnings.
- Torque tighten the **audible warning bolts (21 N.m)**.
- Connect the audible warning connectors.

## II - FINAL OPERATION.

- Refit the front bumper (see **Front bumper: Removal - Refitting**) (55A, Exterior protection).

## Alarm: List and location of components

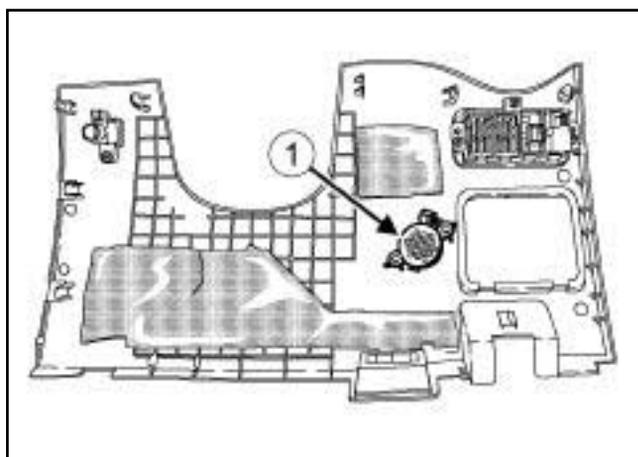
ALARM 01

### I - LIST OF COMPONENTS

No.	Description
(1)	Front parking distance control buzzer
(2)	Rear parking distance control buzzer
(3)	Instrument panel buzzer

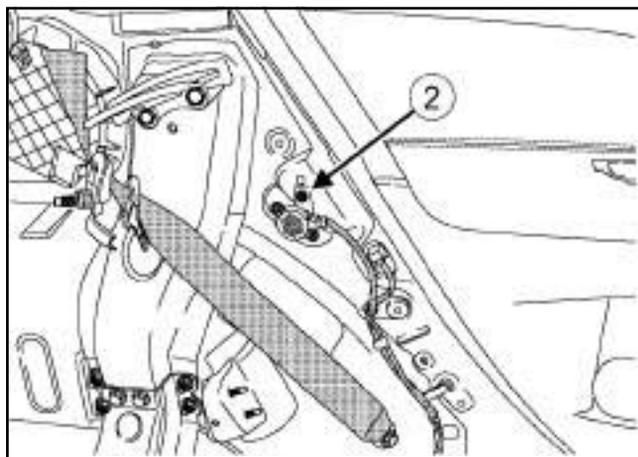
### II - POSITION OF THE COMPONENTS

#### 1 - Front parking distance control buzzer



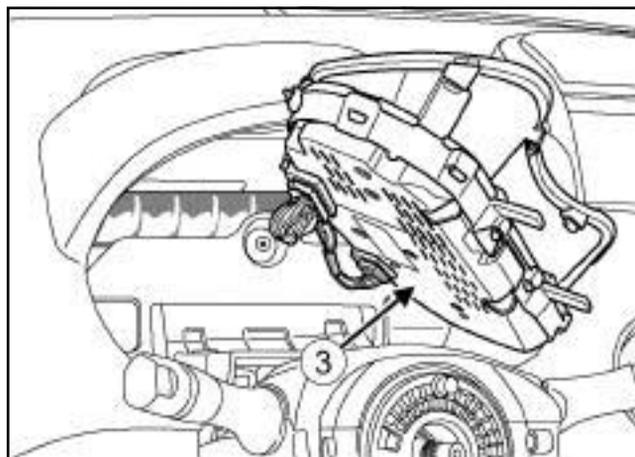
131491

#### 2 - Rear parking distance control buzzer



131492

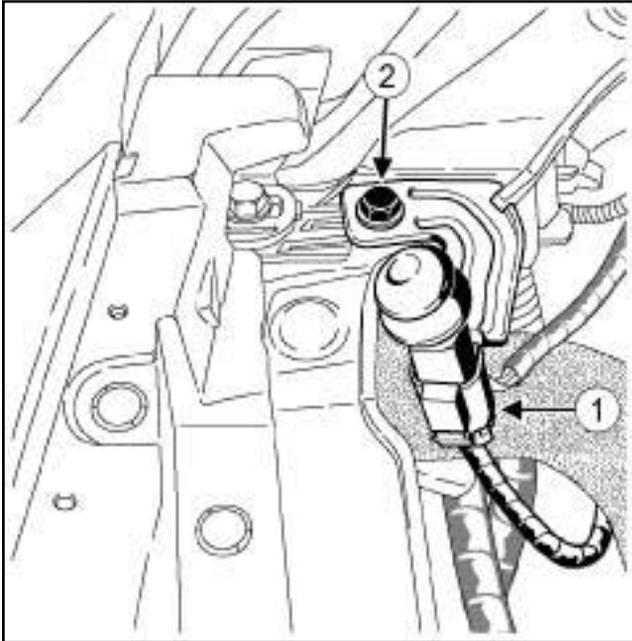
#### 3 - Instrument panel buzzer



131493

**Bonnet switch: Removal - Refitting**

ALARM 01

**REMOVAL****REMOVAL OF PART CONCERNED**

131362

- Disconnect the connector (1) from the bonnet switch.
- Remove:
  - the bonnet switch bolt (2) ,
  - the bonnet switch with the support.

**REFITTING****REFITTING PART CONCERNED**

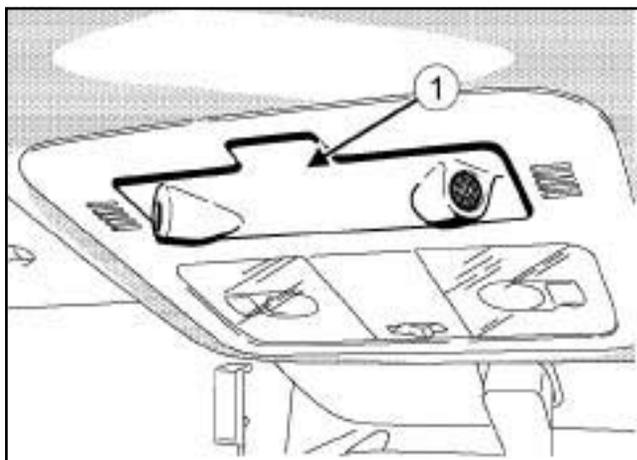
- Refit:
  - the bonnet switch with the support,
  - the bonnet switch bolt.
- Connect the bonnet switch connector.

## Anti-intrusion alarm sensor: Removal - Refitting

ALARM 01

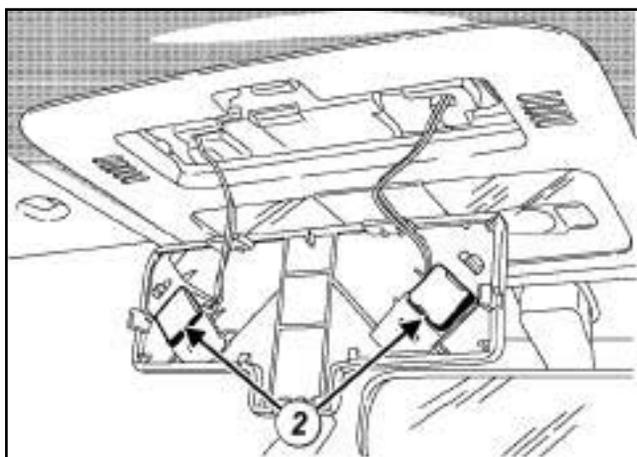
## REMOVAL

## REMOVAL OF PART CONCERNED



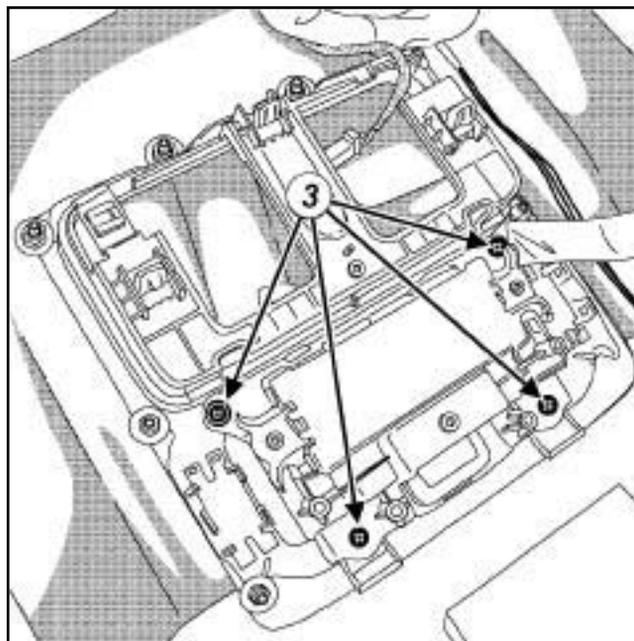
131363

- Unclip the cover (1) from the anti-intrusion alarm sensor.



131364

- Unclip:
  - the anti-intrusion alarm sensor detector clips (2) ,
  - the anti-intrusion alarm sensor detector from the cover.
- Remove the headlining (see **Headlining: Removal - Refitting**) (71A, Body internal trim).



131365

- Remove:
  - the anti-intrusion alarm sensor bolts (3) ,
  - the anti-intrusion alarm sensor.

## REFITTING

## REFITTING PART CONCERNED

- Refit:
  - the anti-intrusion sensor,
  - the anti-intrusion sensor bolts,
  - the headlining (see **Headlining: Removal - Refitting**) (71A, Body internal trim).
- Clip:
  - the anti-intrusion alarm sensor detector on the cover,
  - the anti-intrusion alarm sensor detector clips,
  - the anti-intrusion alarm sensor cover.

### Equipment required

Diagnostic tool

## REMOVAL

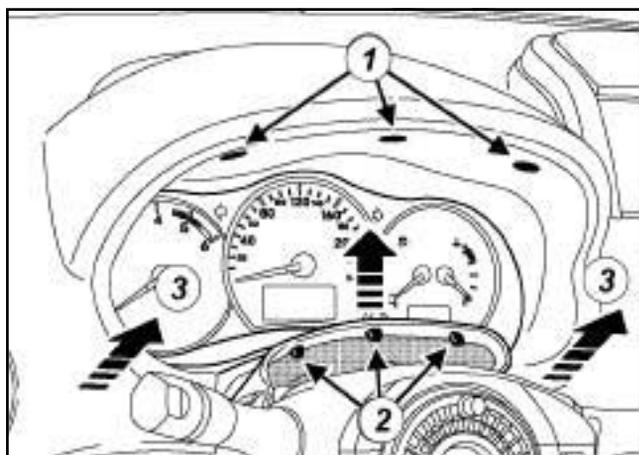
### I - REMOVAL PREPARATION OPERATION

- Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**).

#### Note:

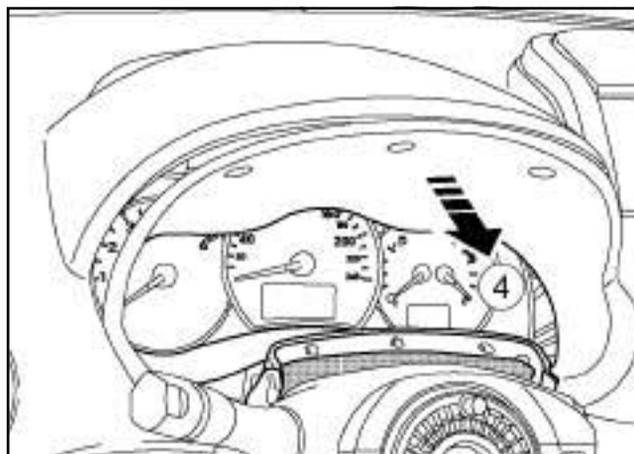
The steering wheel does not need to be removed.

### II - OPERATION FOR REMOVAL OF PART CONCERNED



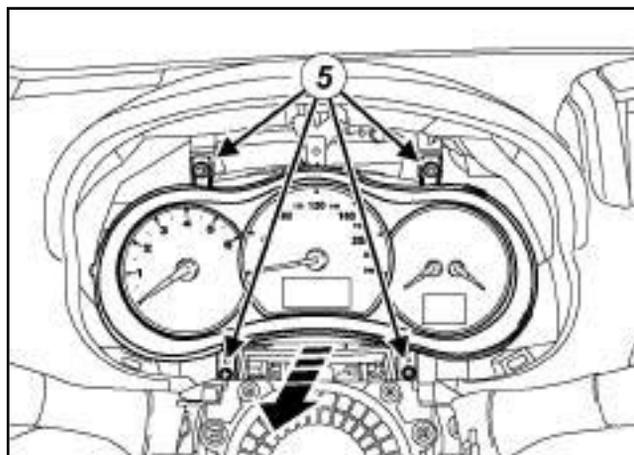
130697

- Remove the bolts (1).
- Unclip the clips (2).
- Remove the bottom of the instrument panel trim in the direction of the arrows (3).



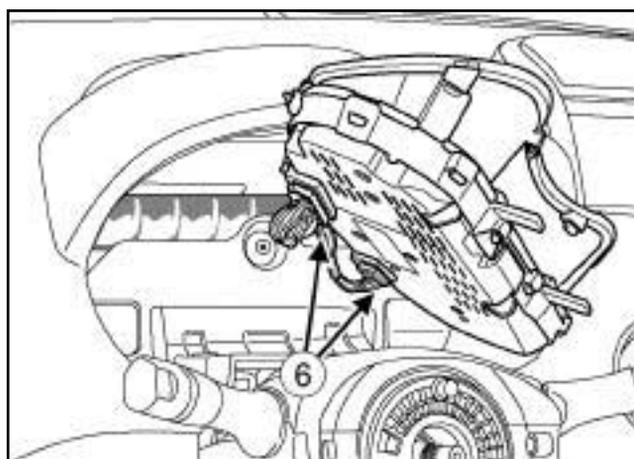
130698

- Remove the top of the instrument panel trim in the direction of the arrow (4).



130699

- Remove the bolts (5) from the instrument panel.



130700

- Remove the instrument panel.
- Disconnect the connectors (6) from the instrument panel.

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

- Connect the connectors to the instrument panel.
- Refit:
  - the instrument panel,
  - the instrument panel bolts,
  - the instrument panel trim.
- Clip the clips onto the upper half cowling.
- Refit the instrument panel trim bolts.

#### II - FINAL OPERATION.

- Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**).
- When replacing the instrument panel, carry out the necessary operations using the **Diagnostic tool** (see **Fault finding - Replacement of components**) (83A, Instrument panel).

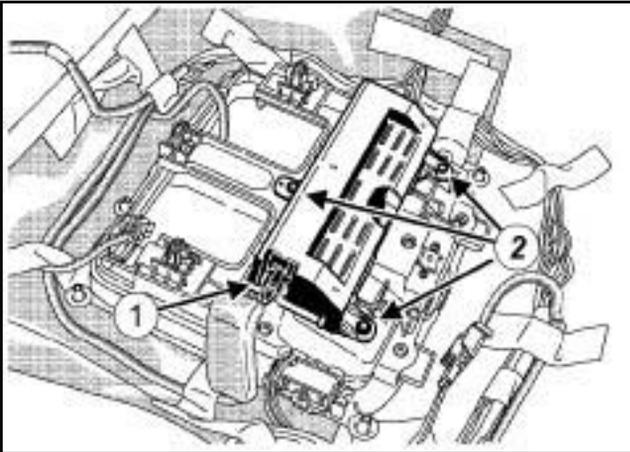
## Vehicle position sensor: Removal - Refitting

## REMOVAL

## I - REMOVAL PREPARATION OPERATION

- Remove the headlining (see **Headlining: Removal - Refitting**) (71A, Body internal trim).

## II - OPERATION FOR REMOVAL OF PART CONCERNED



130374

- Disconnect the vehicle location sensor connector (1).
- Remove:
  - the vehicle location sensor bolts (2),
  - the vehicle location sensor.

## REFITTING

## I - REFITTING OPERATION FOR PART CONCERNED

- Refit:
  - the vehicle location sensor,
  - the vehicle location sensor bolts.
- Connect the vehicle location sensor connector.

## II - FINAL OPERATION.

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

# ON-BOARD TELEMATICS SYSTEM

## Navigation: List and location of components

# 83C

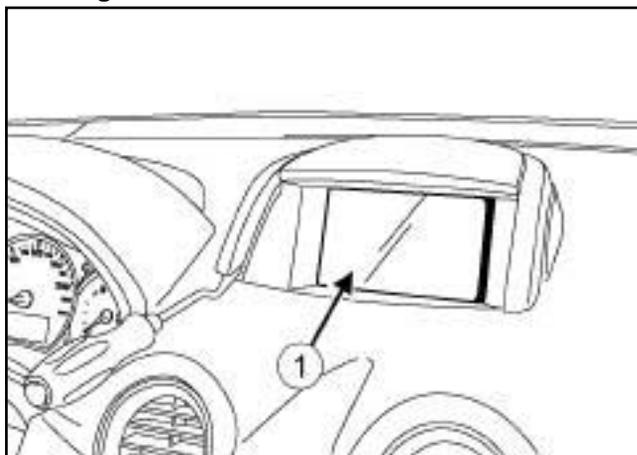
NAVIGATION AID 1 or NAVIGATION AID 2 or NAVIGATION AID 4

### I - LIST OF COMPONENTS

No.	Description
(1)	Navigation screen
(2)	Navigation computer
(3)	Navigation aerial
(4)	Navigation interface unit
(5)	Central control

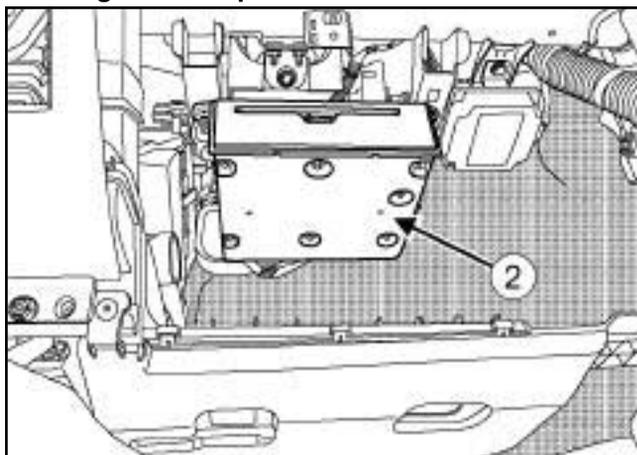
### II - LOCATION OF COMPONENTS

#### 1 - Navigation screen



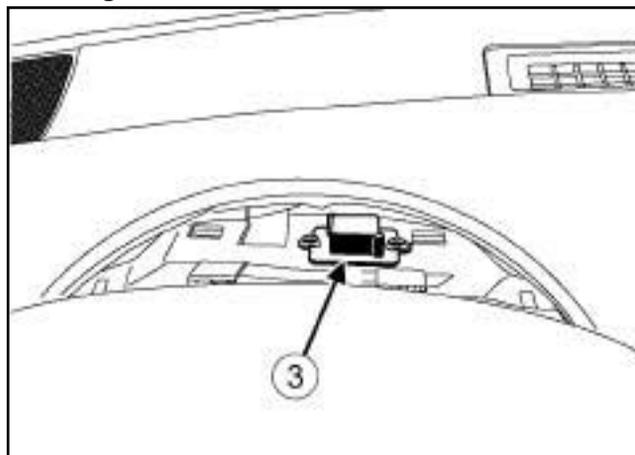
130701

#### 2 - Navigation computer



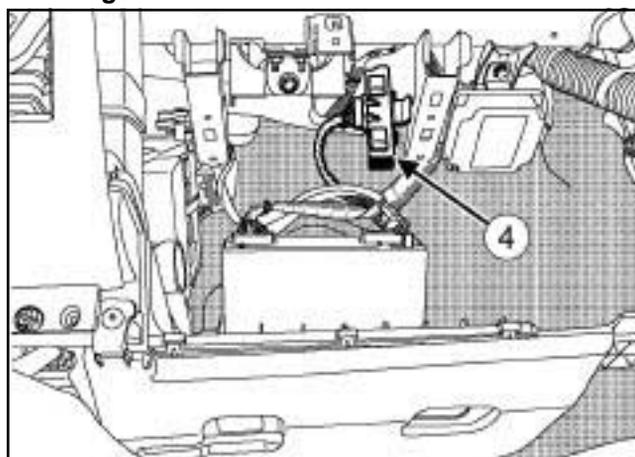
130702

#### 3 - Navigation aerial



130703

#### 4 - Navigation interface unit



130704

#### 5 - Central control



130705

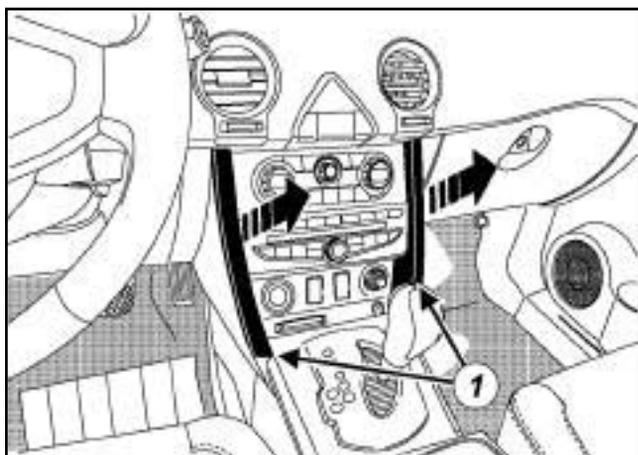
cardiagn.com

**Special tooling required**

**Ms. 1373** Tool for removing radios or chronotachographs.

**REMOVAL**

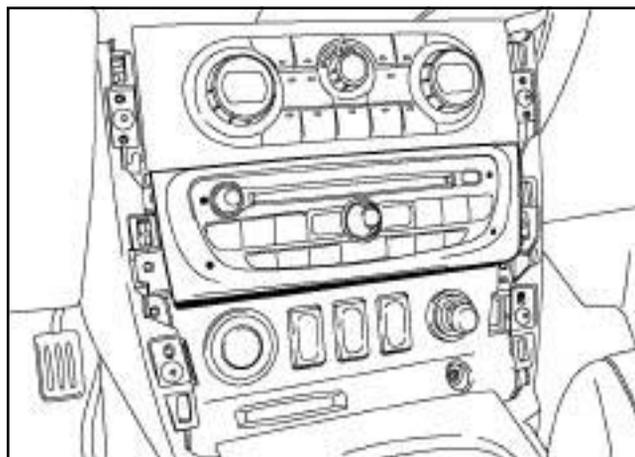
**I - REMOVAL PREPARATION OPERATION**



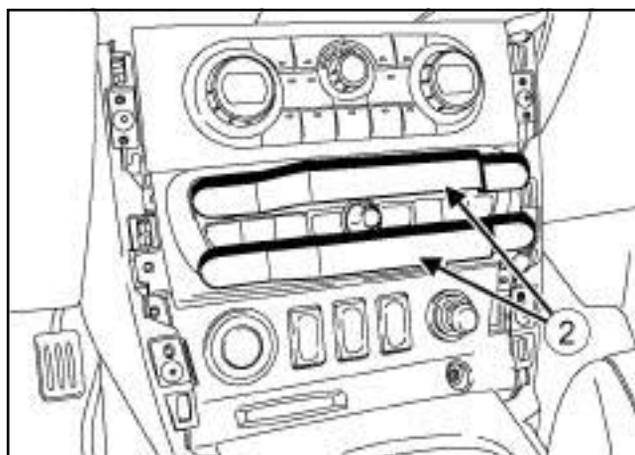
130758

- Remove the centre front panel side trim (1) .

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



130707



130708

- Remove the radio navigation system using tool (Ms. 1373) (2) .
- Disconnect the connectors.

**REFITTING**

**I - REFITTING OPERATION FOR PART CONCERNED**

- Connect the connectors.
- Refit the radio navigation system.

**II - FINAL OPERATION**

- Refit the centre front panel side trim.

# ON-BOARD TELEMATICS SYSTEM

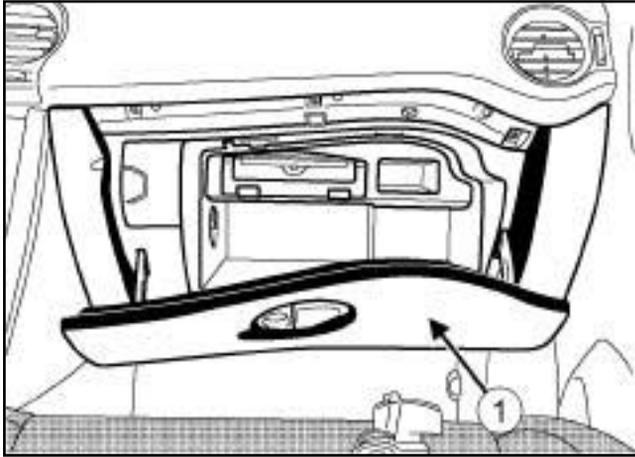
## Navigation computer: Removal - Refitting

# 83C

NAVIGATION AID 1 or NAVIGATION AID 2 or NAVIGATION AID 4

### REMOVAL

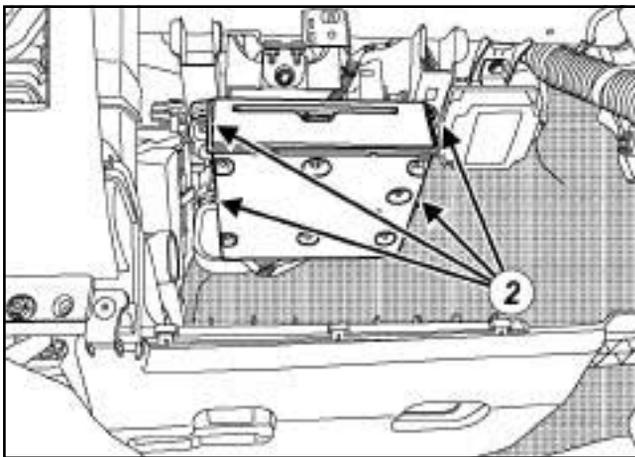
#### I - REMOVAL PREPARATION OPERATION



130709

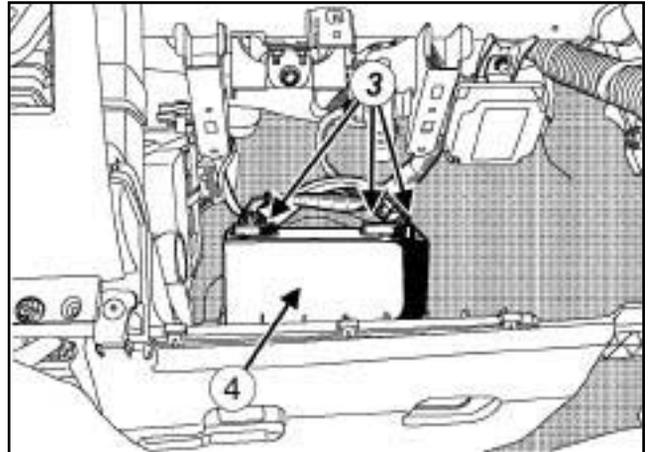
- ❑ Remove the glovebox (1) (see **Glovebox: Removal - Refitting**) (57A, Interior equipment).

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



130710

- ❑ Remove the bolts (2) .



130711

- ❑ Disconnect the connectors (3) .
- ❑ Remove the navigation computer (4) .

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

- ❑ Connect the navigation computer connectors.
- ❑ Refit:
  - the navigation computer,
  - the navigation computer bolts.

#### II - FINAL OPERATION.

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

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# ON-BOARD TELEMATICS SYSTEM

## Navigation interface unit: Removal - Refitting

# 83C

NAVIGATION AID 1 or NAVIGATION AID 2 or NAVIGATION AID 4

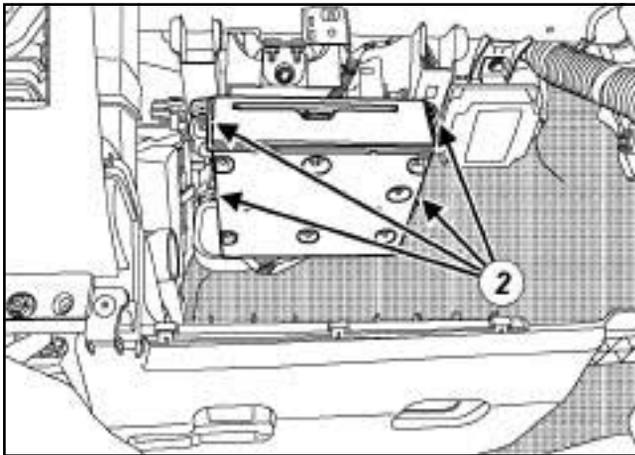
### REMOVAL

#### I - REMOVAL PREPARATION OPERATION



130719

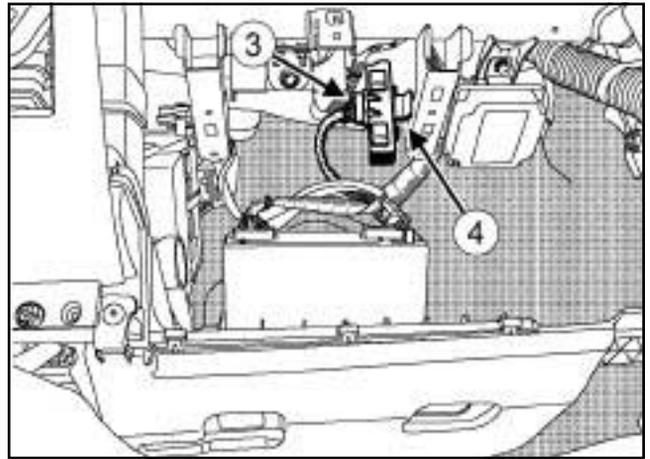
- ❑ Remove the glovebox (1) (see **Glovebox: Removal - Refitting**) (57A, Interior equipment).



130720

- ❑ Remove the bolts (2) from the navigation computer.

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



130721

- ❑ Disconnect the connector (3) .
- ❑ Unclip the navigation interface unit at (4) .

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

- ❑ Clip on the navigation interface unit.
- ❑ Connect the navigation interface unit connector.

#### II - FINAL OPERATION.

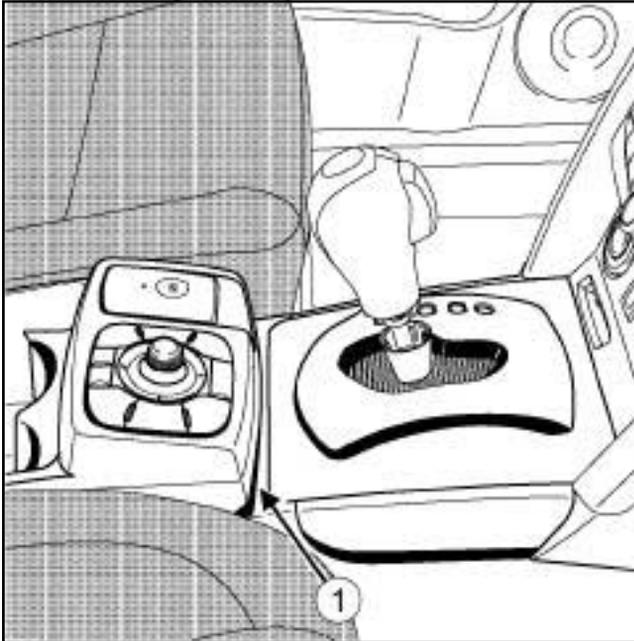
- ❑ Refit:
  - the navigation computer bolts,
  - the glovebox (see **Glovebox: Removal - Refitting**) (57A, Interior equipment).

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NAVIGATION AID 2 or NAVIGATION AID 4

## REMOVAL

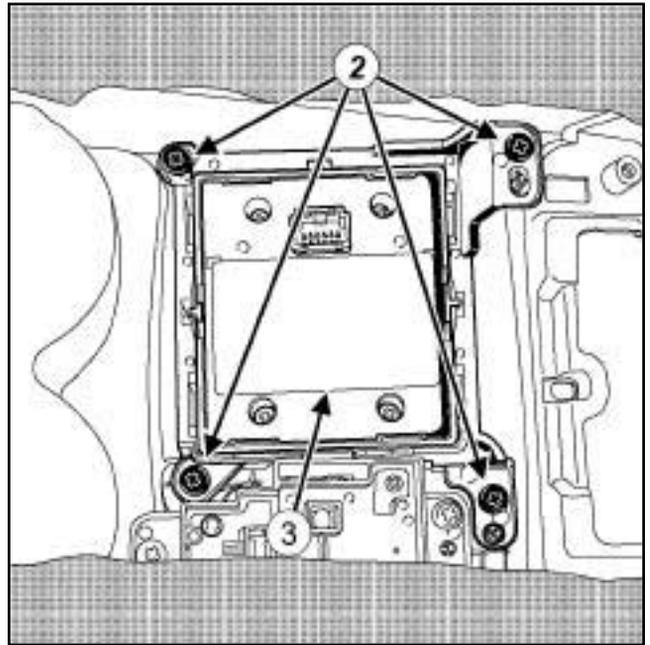
### I - REMOVAL PREPARATION OPERATION



130712

- Remove the centre console (1) (see **Centre console: Removal - Refitting**) (57A, Interior equipment).

### II - OPERATION FOR REMOVAL OF PART CONCERNED



130713

- Disconnect the connector from the central control.
- Remove:
  - the bolts (2) ,
  - the central control (3) .

## REFITTING

### I - REFITTING OPERATION FOR PART CONCERNED

- Refit:
  - the central control,
  - the central control bolts.
- Connect the connector to the central control.

### II - FINAL OPERATION.

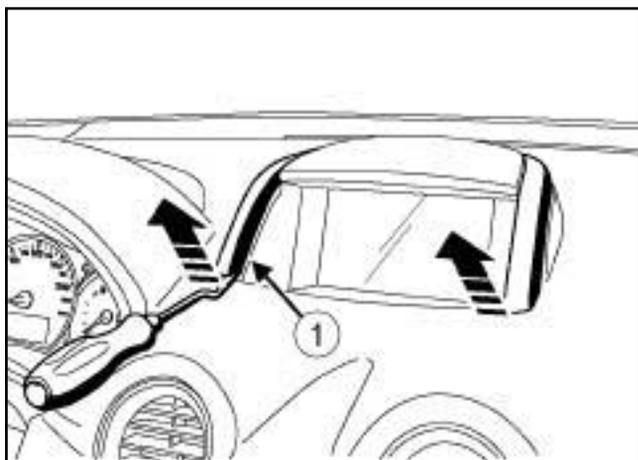
- Refit the centre console (see **Centre console: Removal - Refitting**) (57A, Interior equipment).

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NAVIGATION AID 1 or NAVIGATION AID 2 or NAVIGATION AID 4

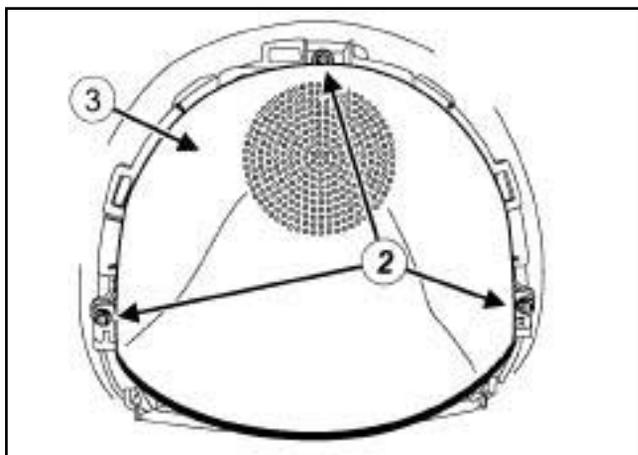
## REMOVAL

### I - REMOVAL PREPARATION OPERATION



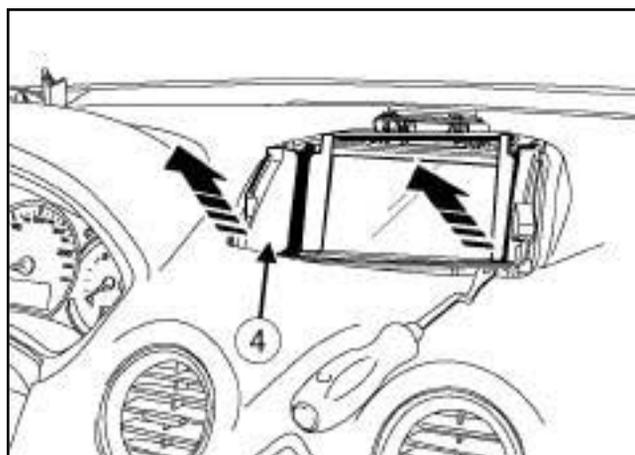
130714

- Remove the front centre speaker trim (1) .



130715

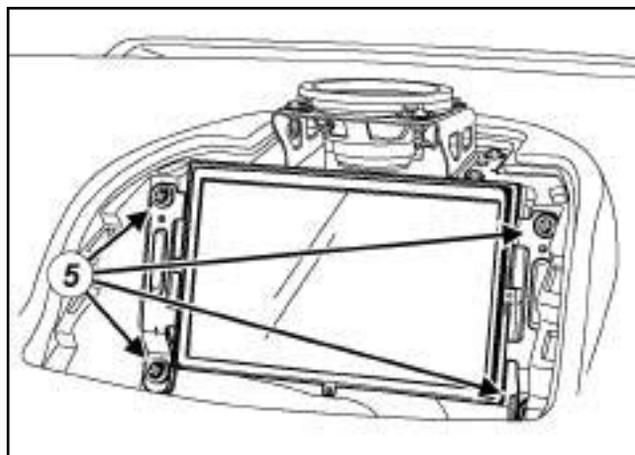
- Remove:
  - the front centre speaker cover bolts (2) ,
  - the front centre speaker cover (3) .



130716

- Remove the navigation screen protector (4) using a flat-blade screwdriver.

### II - OPERATION FOR REMOVAL OF PART CONCERNED



130717

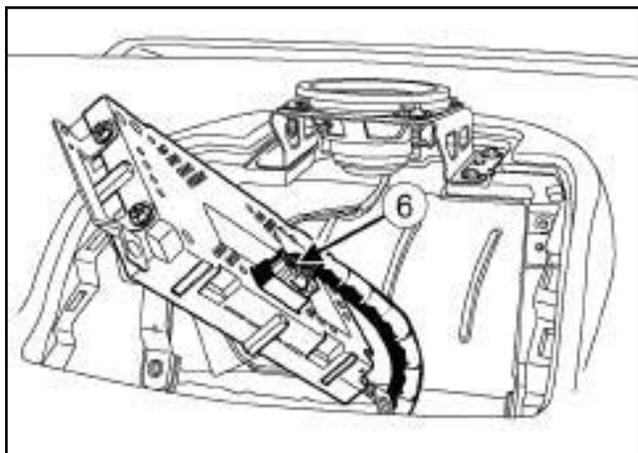
- Remove the bolts (5) .

# ON-BOARD TELEMATICS SYSTEM

## Navigation screen: Removal - Refitting

83C

NAVIGATION AID 1 or NAVIGATION AID 2 or NAVIGATION AID 4



130718

- Remove the navigation screen.
- Disconnect the connector (6) .

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

- Connect the connector.
- Refit:
  - the navigation screen,
  - the navigation screen bolts.

#### II - FINAL OPERATION.

- Refit:
  - the navigation screen protector,
  - the front centre speaker cover,
  - the front centre speaker cover bolts,
  - the front centre speaker trim.

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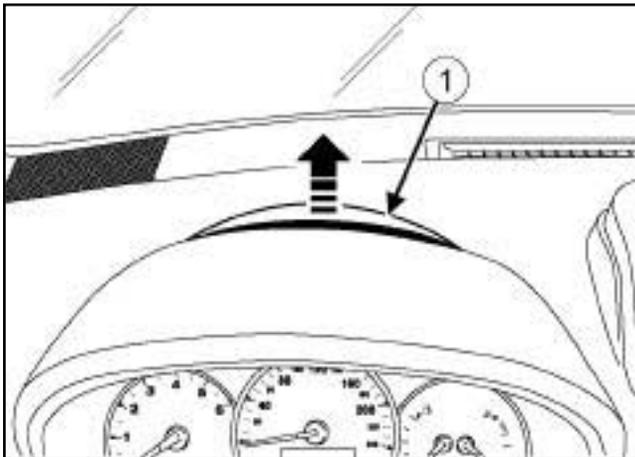
NAVIGATION AID 1 or NAVIGATION AID 2 or NAVIGATION AID 4

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

Remove:

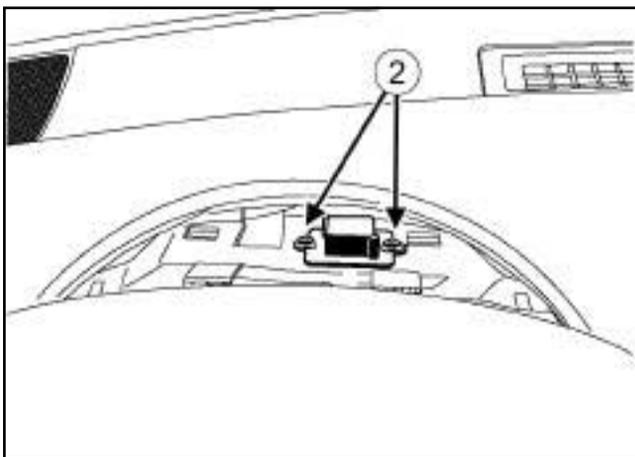
- the glovebox (see **Glovebox: Removal - Refitting**) (57A, Interior equipment),
- the navigation computer (see **83C, On-board telematics system, Navigation computer: Removal - Refitting**, page 83C-3) .



130722

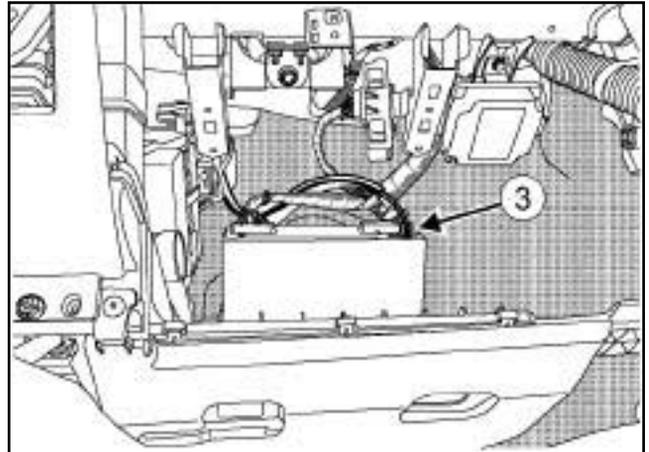
- Remove the rear section of the dashboard cover (1)

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



130723

- Remove the navigation aerial bolts (2) .

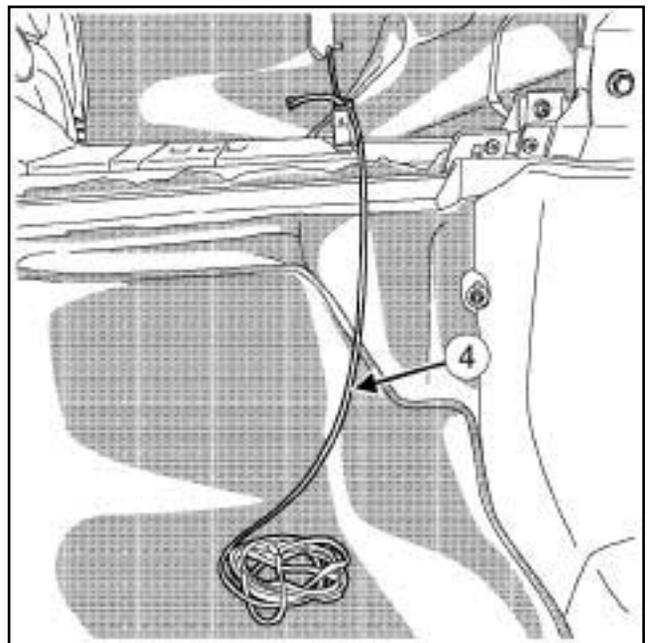


130724

- Disconnect the connector (3) .

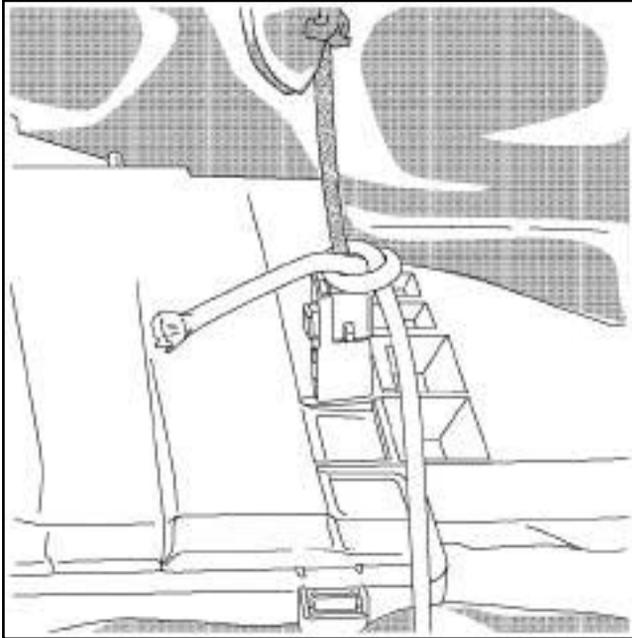
**Note:**

Use a rope to remove and refit the navigation aerial wiring.



130725

- Secure the navigation aerial wiring using a rope (4) .



130726

Remove:

- the dashboard navigation aerial wiring by pulling it from the dashboard,
- the navigation aerial.

**REFITTING**

**I - REFITTING OPERATION FOR PART CONCERNED**

Refit:

- the navigation aerial,
- the navigation aerial wiring inside the dashboard by pulling the rope under the dashboard.

Detach the rope.

Connect the connector.

Refit the navigation aerial bolts.

**II - FINAL OPERATION**

Refit:

- the rear section of the dashboard cover,
- the navigation computer (see **83C, On-board telematics system, Navigation computer: Removal - Refitting**, page **83C-3**),
- the glovebox (see **Glovebox: Removal - Refitting**).

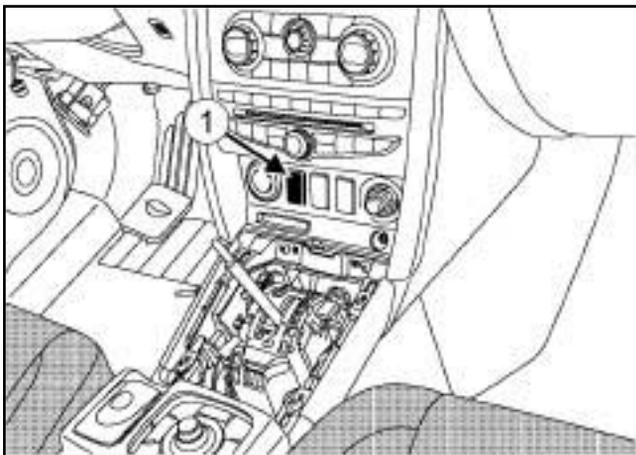
### CRUISE CONTROL

#### I - LIST OF COMPONENTS

No.	Description
(1)	Switch
(2)	Steering column switches
(3)	Brake switch
(4)	Clutch switch

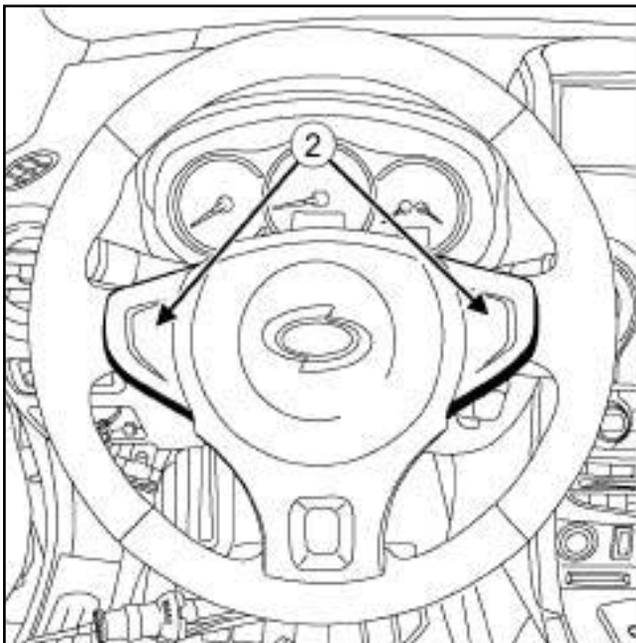
#### II - LOCATION OF COMPONENTS

##### 1 - Switch



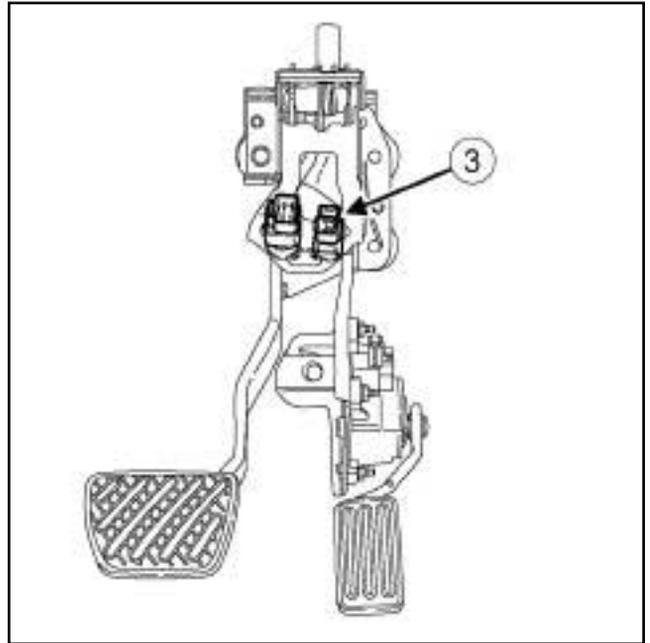
130375

##### 2 - Steering column switches



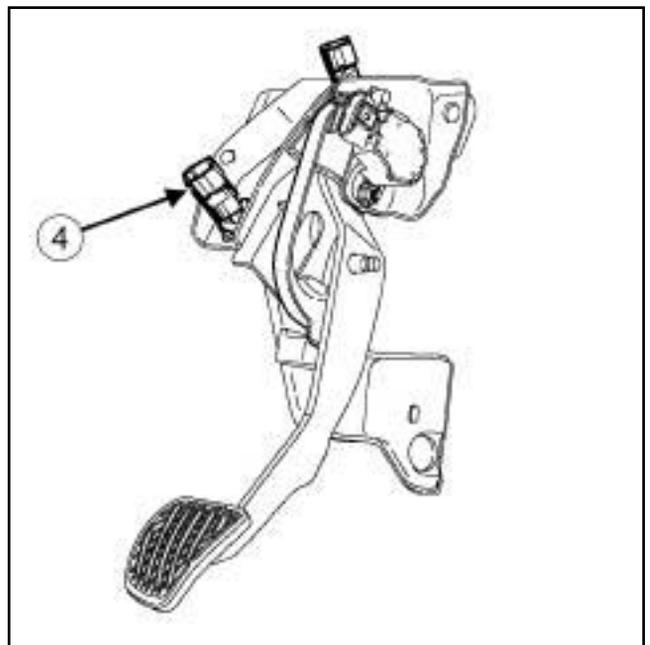
130376

##### 3 - Brake switch



130377

##### 4 - Clutch switch



130378

# CRUISE CONTROL

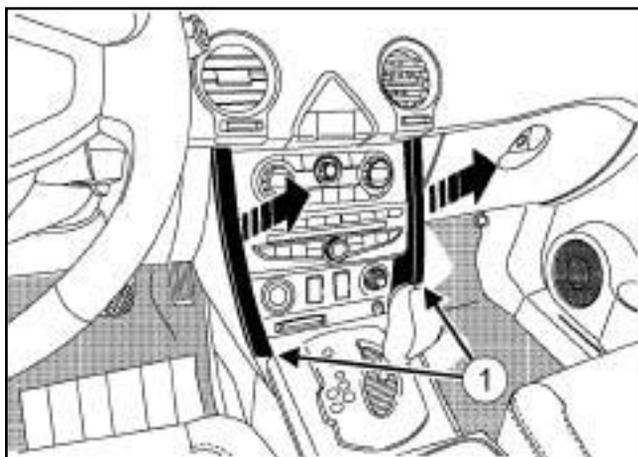
## Switch: Removal - Refitting

# 83D

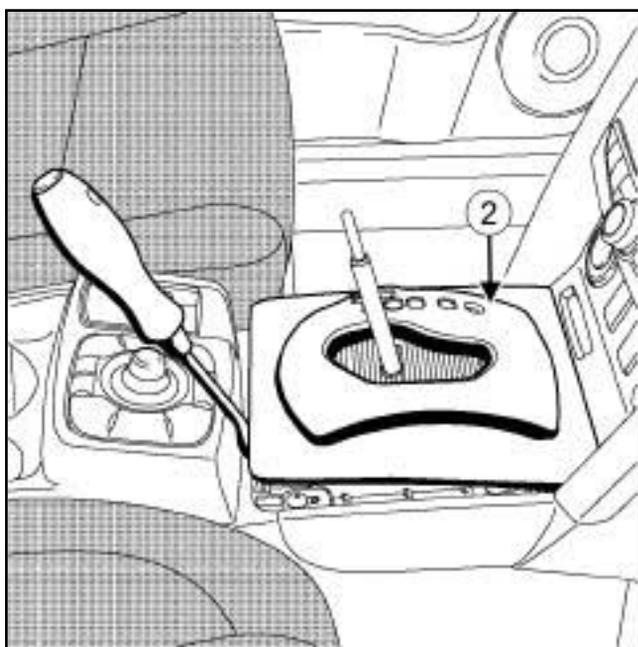
CRUISE CONTROL

### REMOVAL

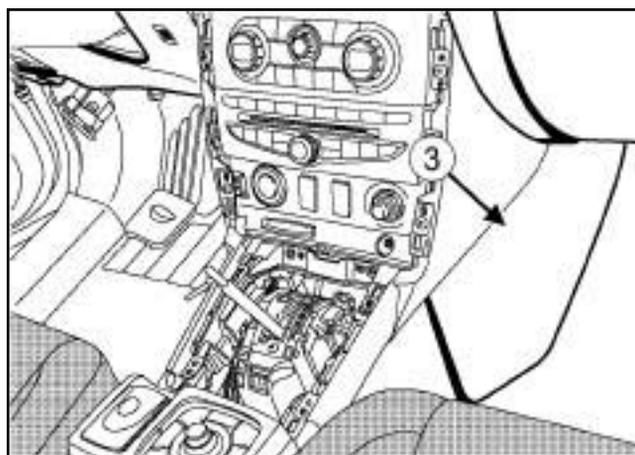
#### I - REMOVAL PREPARATION OPERATION



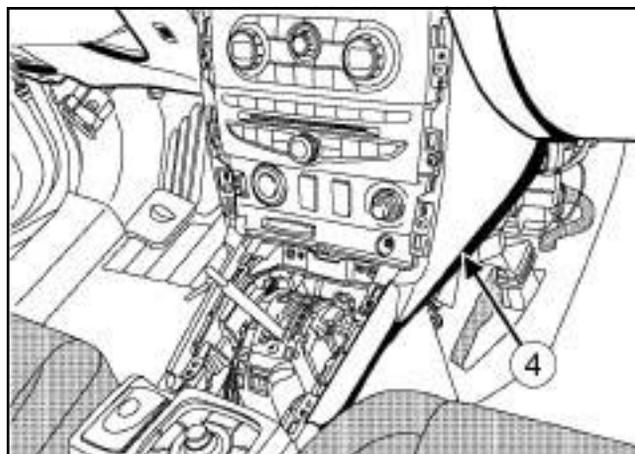
- ❑ Remove the centre front panel side trim (1) .



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



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



- ❑ Remove:
  - the centre front panel side trims (4) on both sides,
  - the CD multi-changer (see **86A, Radio, CD changer: Removal - Refitting**, page 86A-14) ,
  - the radio (see **86A, Radio, Radio: Removal - Refitting**, page 86A-4) .

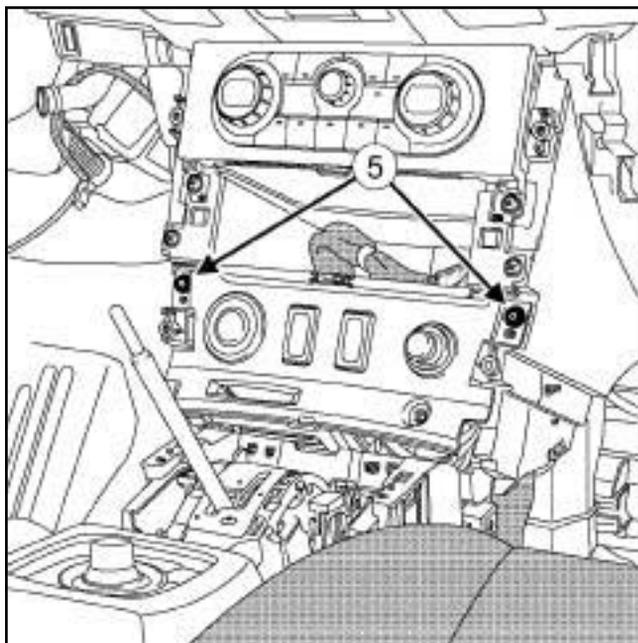
cardiagn.com

# CRUISE CONTROL

## Switch: Removal - Refitting

# 83D

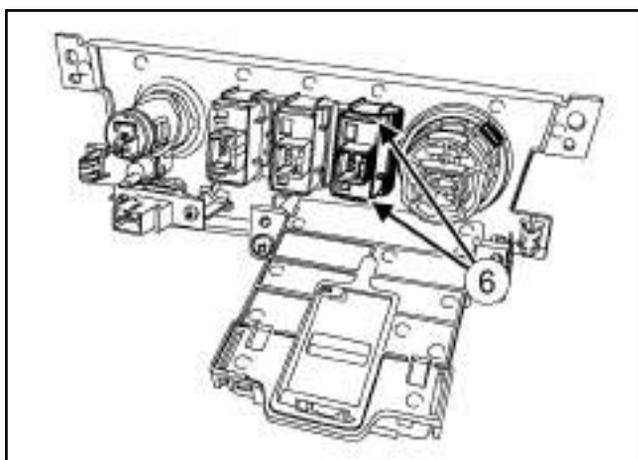
CRUISE CONTROL



131582

- Remove:
  - the starter control panel bolts (5) ,
  - the starter control panel.
- Disconnect the connectors.

### II - OPERATION FOR REMOVAL OF PART CONCERNED



131570

- Unclip the switch clips (6) .
- Remove the switch.

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

- Refit the switch on the control panel.

- Connect the connectors.
- Refit:
  - the starter control panel,
  - the starter control panel bolts.

#### II - FINAL OPERATION.

- Refit:
  - the radio (see **86A, Radio, Radio: Removal - Refitting**, page **86A-4**) ,
  - the CD multi-changer (see **86A, Radio, CD changer: Removal - Refitting**, page **86A-14**) ,
  - the centre front panel side trims on both sides,
  - the dashboard lower cover on the driver's side (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
  - the glovebox (see **Glovebox: Removal - Refitting**) ( 57A, Interior equipment),
  - the centre front panel lower covers on both sides,
  - the gear lever plate (see **Centre console: Removal - Refitting**) (57A, Interior equipment),
  - the centre front panel side trim.

cardiagn.com

## Steering wheel switch: Removal - Refitting

CRUISE CONTROL

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION



##### IMPORTANT

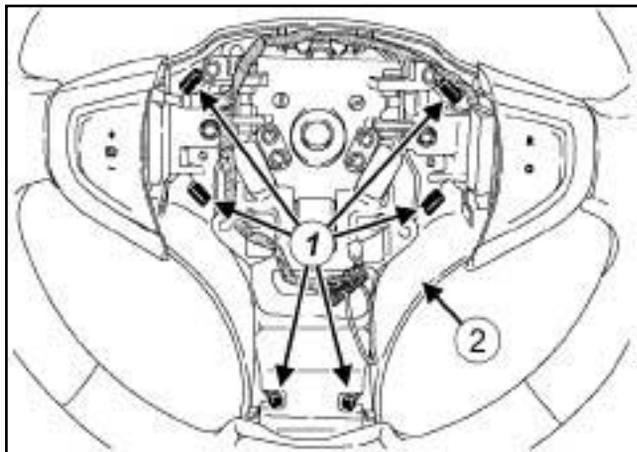
To prevent the pyrotechnic components from being permanently deactivated or triggered (air-bags or pretensioners), wait for at least **3 min** after disconnecting the battery.

- Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**) .

- Remove:

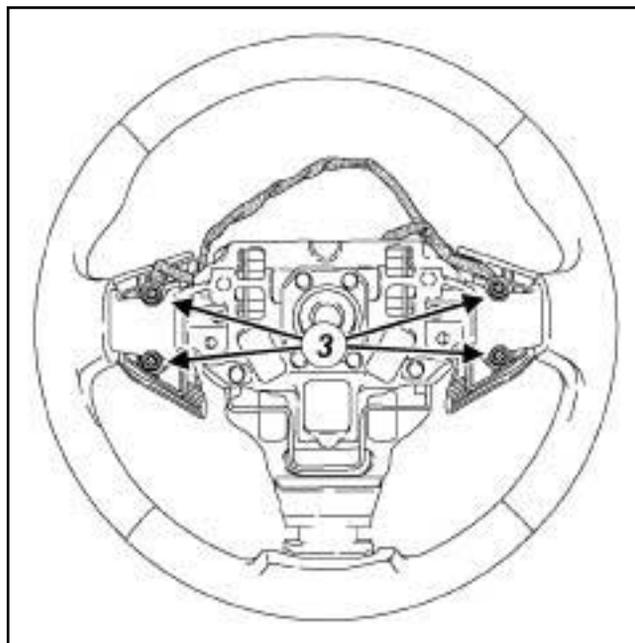
- the driver's front airbag (see **88C, Air bag and Pretensioners, Driver's frontal airbag: Removal - Refitting**, page **88C-10**) ,
- the steering wheel (see **Steering wheel: Removal - Refitting**) (36A, Steering assembly).

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



130379

- Unclip the steering wheel rear cover clips (1) .
- Remove the steering wheel rear cover (2) from the steering wheel.



130380

- Remove:

- the bolts (3) from the steering column switches,
- the steering column switches.

### REFITTING

#### I - REFITTING PREPARATION OPERATION

- Always replace the steering wheel nut.

#### II - REFITTING OPERATION FOR PART CONCERNED

- Refit:

- the steering column switches,
- the steering column switch bolts,
- the steering wheel rear cover on the steering wheel.

#### III - FINAL OPERATION.

- Refit:

- the steering wheel (see **Steering wheel: Removal - Refitting**) (36A, Steering assembly),
- the driver's front airbag (see **88C, Air bag and Pretensioners, Driver's frontal airbag: Removal - Refitting**, page **88C-10**) .

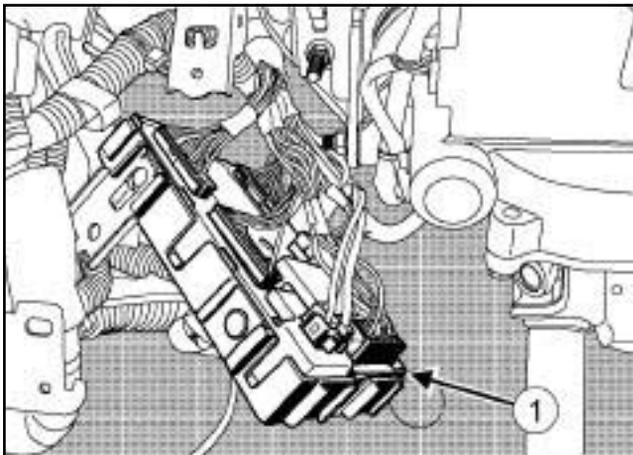
- Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**) .

### I - LIST OF COMPONENTS

No.	Description
(1)	UCH
(2)	Wiper stalk
(3)	Lighting stalk
(4)	Telephone/radio control satellite

### II - LOCATION OF COMPONENTS

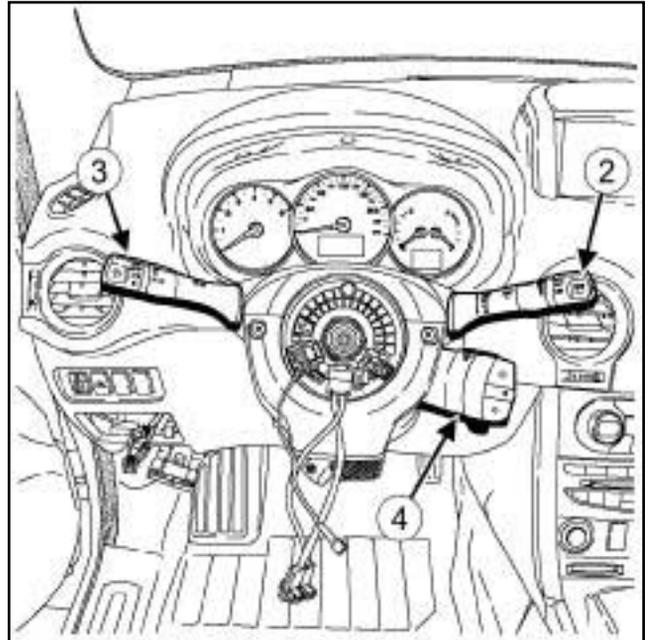
#### 1 - UCH



130381

The UCH (1) is located in the dashboard, behind the passenger compartment relay unit. To remove it (see **87B, Passenger compartment connection unit, UCH: Removal - Refitting**, page **87B-1**).

#### 2 - Steering column switch assembly



130382

- (2) Wiper stalk
- (3) Lighting stalk
- (4) Telephone/radio control satellite

# CONTROL - SIGNALS

## Rotary switch: Removal - Refitting

# 84A

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

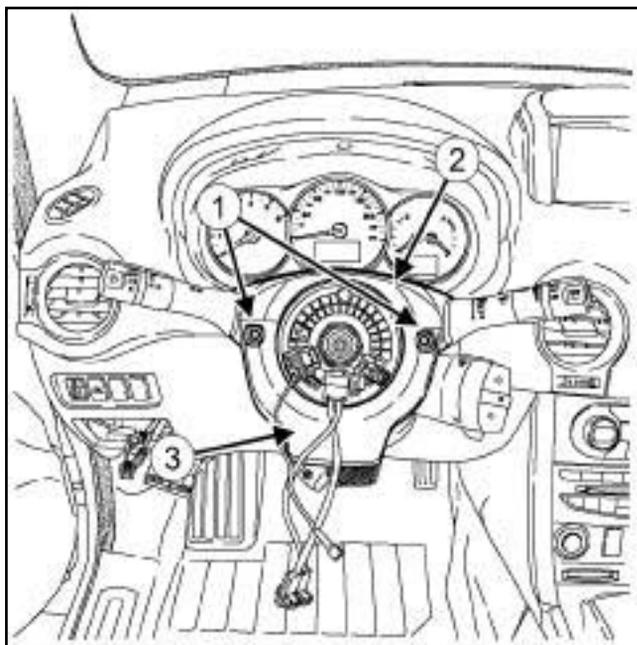
- ❑ Set the wheels straight ahead.

#### IMPORTANT

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

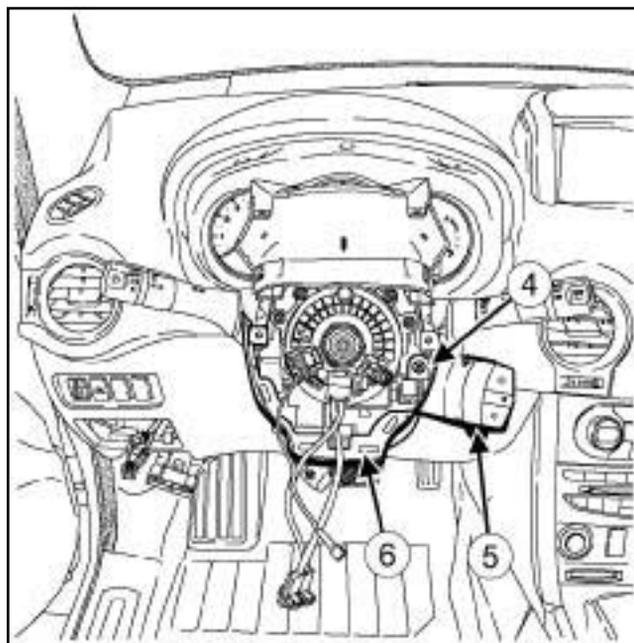
- ❑ Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**).
- ❑ Remove:
  - the driver's front airbag (see **88C, Air bag and Pretensioners, Driver's frontal airbag: Removal - Refitting**, page **88C-10**),
  - the steering wheel (see **Steering wheel: Removal - Refitting**) (36A, Steering assembly).

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



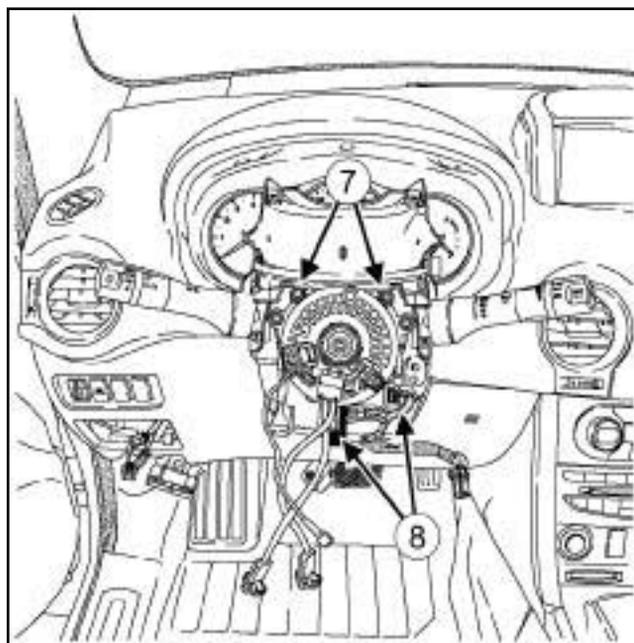
130383

- ❑ Remove the bolts (1) from the cover under the steering wheel.
- ❑ Unclip:
  - the upper half of the cover (2) under the steering wheel,
  - the lower half of the cover (3) under the steering wheel.



130384

- ❑ Remove:
  - the radio control satellite nut (4),
  - the radio control satellite (5).
- ❑ Disconnect the radio control satellite connector.
- ❑ Unclip the lower half of the cover (6) under the steering wheel.



130385

- ❑ Remove the rotary switch bolts (7).
- ❑ Unclip the rotary switch.
- ❑ Disconnect the rotary switch connectors (8).

# CONTROL - SIGNALS

## Rotary switch: Removal - Refitting

# 84A

### REFITTING

#### I - REFITTING PREPARATION OPERATION

- Always replace the steering wheel nut.

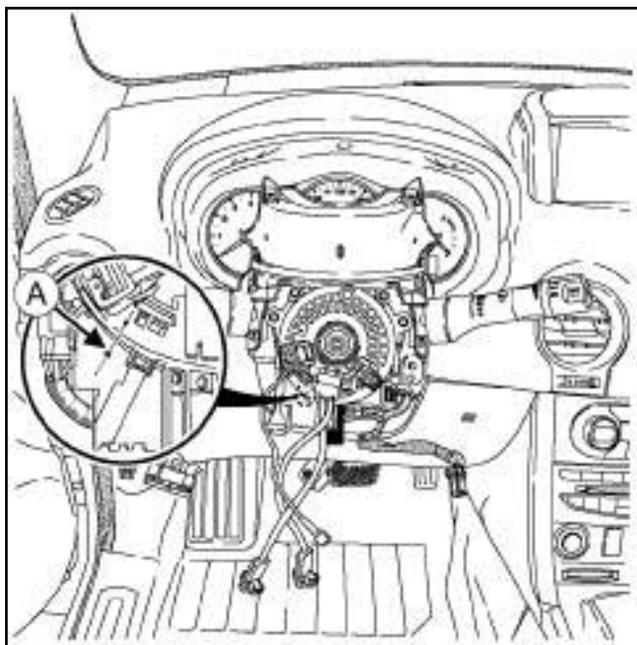
#### II - REFITTING OPERATION FOR PART CONCERNED

- 

#### WARNING

To prevent damaging the rotary switch, do not turn the mobile section of the rotary switch.

- Connect the rotary switch connectors.
- Refit:
  - the rotary switch,
  - the rotary switch bolts.



130386

- Adjust the neutral position of the rotary switch:
  - turn the rotary switch carefully clockwise as far as it will go,
  - turn the rotary switch anticlockwise (approximately two and a half turns),
  - stop rotating at (A) .
- Refit the lower half of the cover under the steering wheel.
- Connect the radio control satellite connector.
- Refit:
  - the radio control satellite,

- the radio control satellite nut,
- the lower half of the cover under the steering wheel,
- the upper half of the cover under the steering wheel,
- the bolts of the cover under the steering wheel.

#### III - FINAL OPERATION.

- Refit:
  - the steering wheel (see **Steering wheel: Removal - Refitting**) (36A, Steering assembly),
  - the driver's front airbag (see **88C, Air bag and Pre-tensioners, Driver's frontal airbag: Removal - Refitting**, page 88C-10) .
- Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page 80A-3) .

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

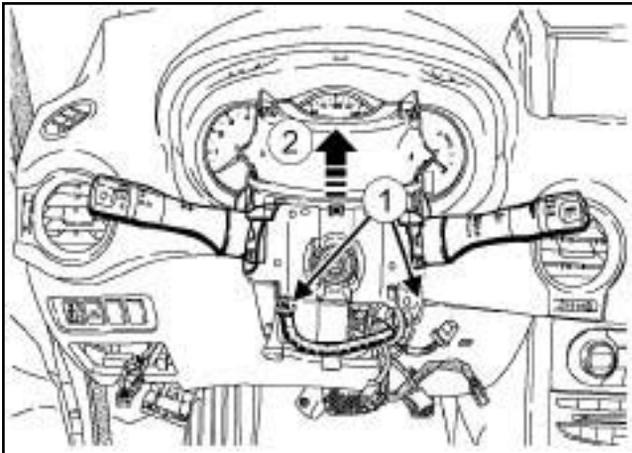
- Set the wheels straight ahead.

#### IMPORTANT

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

- Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**).
- Remove:
  - the driver's front airbag (see **88C, Air bag and Pretensioners, Driver's frontal airbag: Removal - Refitting**, page **88C-10**),
  - the steering wheel (see **Steering wheel: Removal - Refitting**) (36A, Steering assembly),
  - the rotary switch. (see **84A, Control - Signals, Rotary switch: Removal - Refitting**, page **84A-2**)

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



130387

- Disconnect the steering column switch assembly connectors (1).
- Remove the steering column switch assembly by pulling it in the direction of the arrow (2).

### REFITTING

#### I - REFITTING PREPARATION OPERATION

- Always replace the steering wheel nut.

#### II - REFITTING OPERATION FOR PART CONCERNED

- Refit the steering column switch assembly.
- Connect the steering column switch assembly connectors.

#### III - FINAL OPERATION.

- Refit:
  - the rotary switch (see **84A, Control - Signals, Rotary switch: Removal - Refitting**, page **84A-2**),
  - the steering wheel (see **Steering wheel: Removal - Refitting**) (36A, Steering assembly),
  - the driver's front airbag (see **88C, Air bag and Pretensioners, Driver's frontal airbag: Removal - Refitting**, page **88C-10**).
- Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**).

### Special tooling required

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

#### Note:

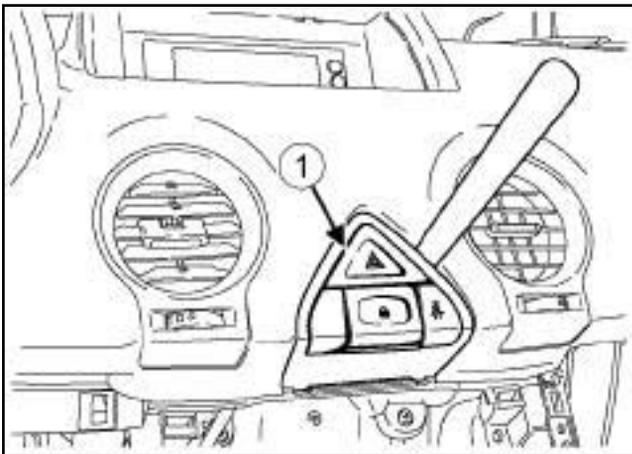
The hazard warning light switch and the central door locking switch constitute a single part.

## REMOVAL

### I - REMOVAL PREPARATION OPERATION

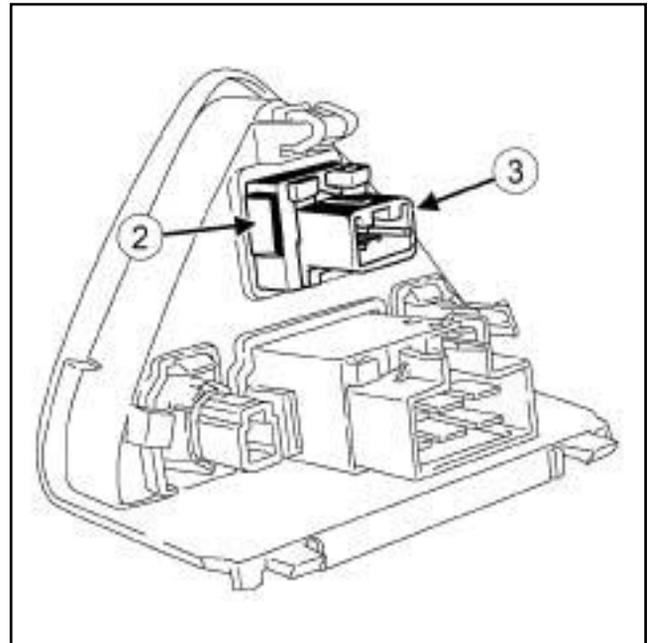
- Remove the control panel (see **Control panel: Removal - Refitting**) (61A, Heating).

### II - OPERATION FOR REMOVAL OF PART CONCERNED



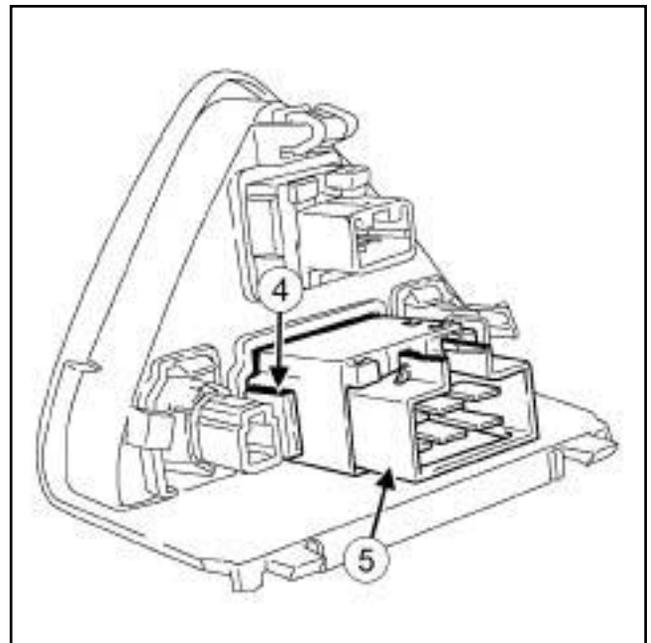
130388

- Remove the hazard warning light and central door locking switches (1) using the tool (**Car. 1363**).
- Disconnect the hazard warning light and central door locking switch connectors.



130389

- Unclip the clips (2) on both sides.
- Remove the hazard warning lights switch (3) .



130390

- Unclip the clips (4) on both sides.
- Remove the central door locking switch (5) .

## REFITTING

### I - REFITTING OPERATION FOR PART CONCERNED

- Refit:
  - the central door locking switch,

- the hazard warning light switch.

- Connect the hazard warning light and central door locking switch connectors.

### II - FINAL OPERATION.

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

## ESP inhibitor switch: Removal - Refitting

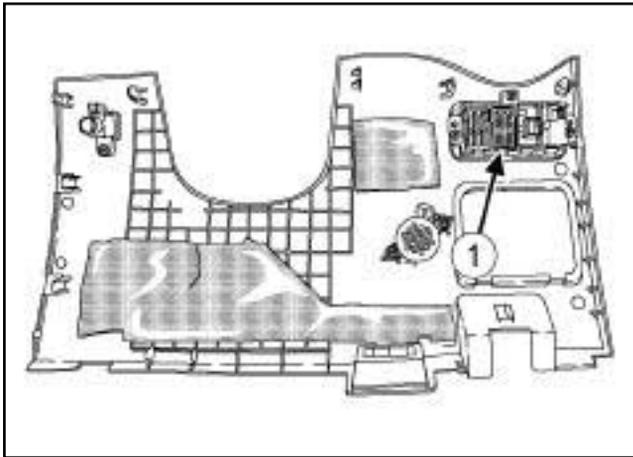
ELECTRONIC STABILITY PROGRAM 2 or ELECTRONIC STABILITY PROGRAM

## REMOVAL

## I - REMOVAL PREPARATION OPERATION

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

## II - OPERATION FOR REMOVAL OF PART CONCERNED



130391

- ❑ Unclip the ESP inhibitor switch (1) from the dashboard lower cover.

## REFITTING

## I - REFITTING OPERATION FOR PART CONCERNED

- ❑ Refit the ESP inhibitor switch on the dashboard lower cover.

## II - FINAL OPERATION.

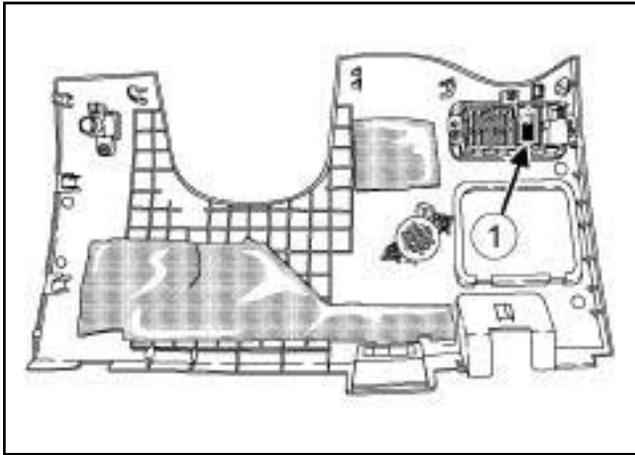
- ❑ Refit the dashboard lower cover on the driver's side (see **Dashboard: Removal - Refitting**) (57A, Interior equipment).

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

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

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



132647

- Unclip the remote headlight beam adjustment control (1) from the dashboard lower cover.

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

- Refit the remote headlight beam adjustment control on the dashboard lower cover.

#### II - FINAL OPERATION.

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

# CONTROL - SIGNALS

## Lighting dimmer: Removal - Refitting

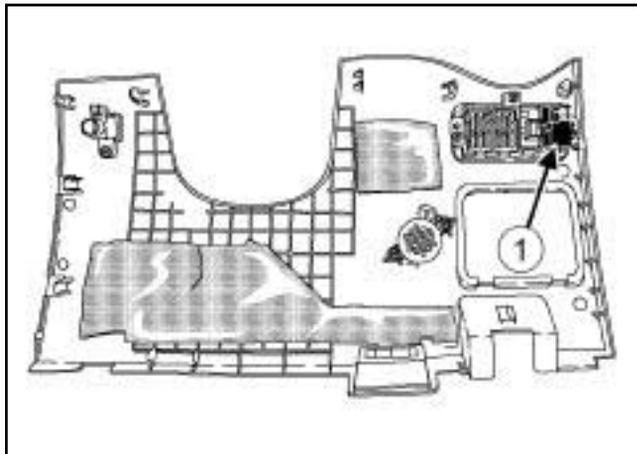
84A

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

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

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



130392

- Unclip the lighting dimmer (1) from the dashboard lower cover.

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

- Refit the lighting dimmer on the dashboard lower cover.

#### II - FINAL OPERATION.

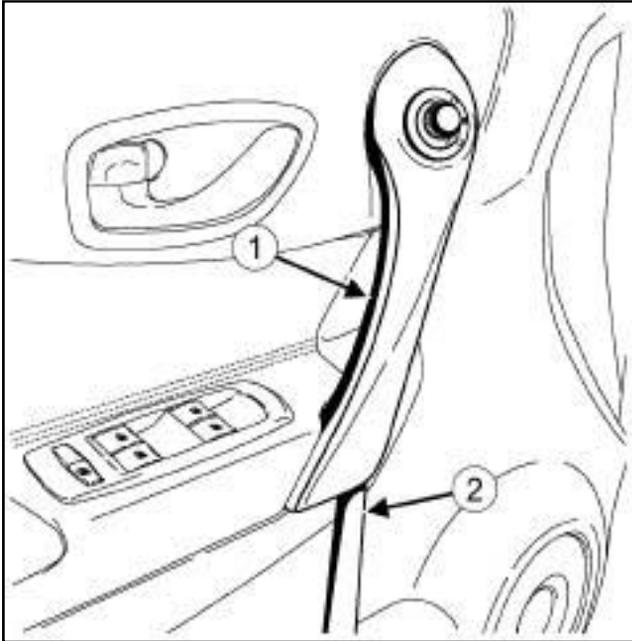
- Refit the dashboard lower cover on the driver's side (see **Dashboard: Removal - Refitting**) (57A, Interior equipment).

### Special tooling required

Car. 1363	Set of trim removal levers.
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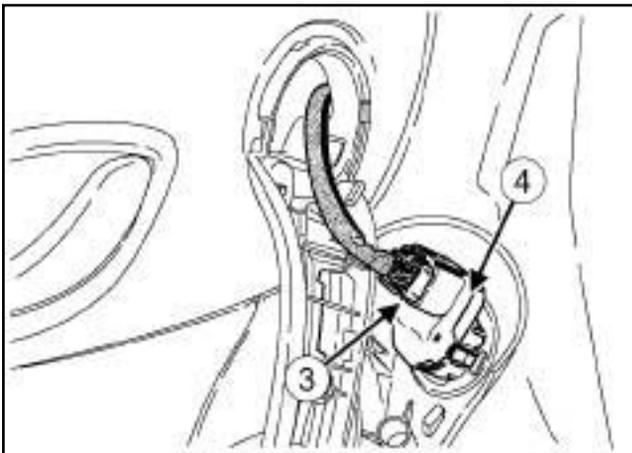
### REMOVAL

#### OPERATION FOR REMOVAL OF PART CONCERNED



130393

- Remove the front door handle trim (1) using the tool (Car. 1363) (2) .



130394

- Disconnect the door mirror control switch connector (3) .
- Remove the door mirror control switch (4) from the front door handle trim.

### REFITTING

#### REFITTING OPERATION FOR PART CONCERNED

- Connect the door mirror control switch connector.
- Refit:
  - the door mirror control switch on the front door handle trim,
  - the front door handle trim.

The screen printed heated grid on the inner face of the window may have an accidental cut, making the affected part of the circuit useless.

- ❑ Determine the exact location of the cut using a voltmeter.

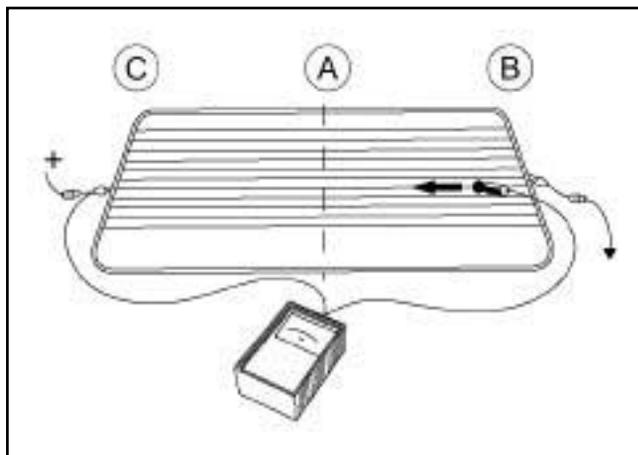
Faults such as these can be repaired by using the heated rear screen varnish available at the. **Magas in Pièce de Rechange**

### I - DETERMINING THE EXACT LOCATION OF THE CUT USING A VOLTMETER

- ❑ Switch on the ignition.
- ❑ Press the heated rear screen switch.

#### 1 - Detection between lines B and A

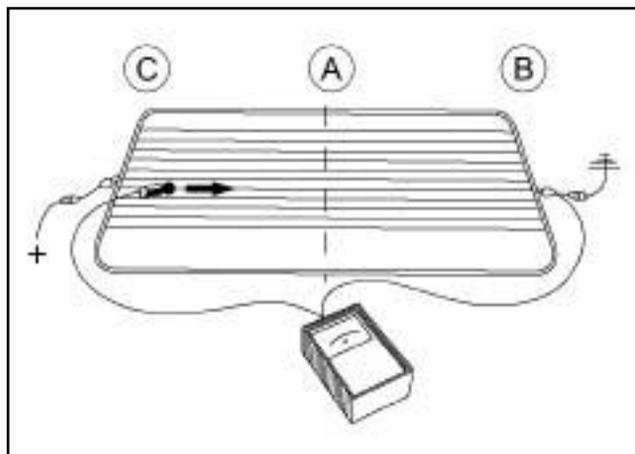
- ❑ Connect the + wire of the voltmeter to the + feed terminal of the rear screen.
- ❑ Put the - wire of the voltmeter on a filament at the - terminal side of the rear screen (line A); the voltage obtained should be roughly equal to that of the battery.
- ❑ Move the - wire towards line A (see arrow): the voltage gradually drops.



- ❑ A sudden voltage drop indicates that the filament is cut at that point (repeat this operation for each filament).

#### 2 - Detection between lines C and A

- ❑ Connect the - wire of the voltmeter to the - terminal of the rear screen.
- ❑ Put the + wire of the voltmeter on the filament at the + terminal end of the rear screen (line C); the voltage obtained should be roughly equal to battery voltage.
- ❑ Move the + wire towards line A (see arrow): the voltage gradually drops.



130396

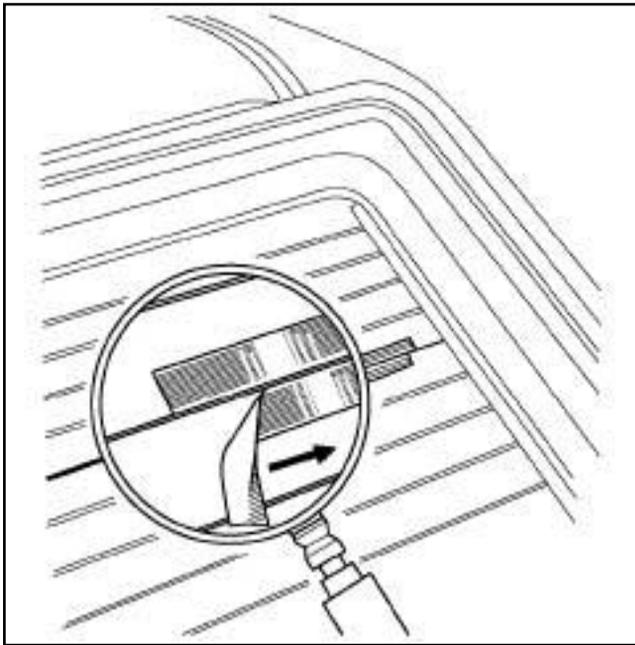
- ❑ A sudden voltage drop indicates that the filament is cut at that point (repeat this operation for each filament).

### II - REPAIRING THE FILAMENT

- ❑ Clean the section to be repaired to remove all dust or grease, preferably using alcohol or a glass cleaner, and wipe with a clean, dry cloth.
- ❑ To ensure that the new line is straight, before varnishing, apply adhesive tape to either side of the section to be repaired, leaving the conducting line exposed.
- ❑ Before using the varnish, shake the bottle to prevent the silver particles settling at the bottom.

#### Repair

- ❑ Carry out the repair using a small brush, applying a sufficiently thick layer. If applying successive coats, allow sufficient drying time between each coat and do not repeat the operation more than three times.
- ❑ Any varnish that runs over can be removed using a knife, but only after several hours of drying.



130397

- ❑ The adhesive tape used as a guide must not be removed until approximately one hour after application. The tape must be pulled off perpendicularly to the resistance, in the direction of the arrow. Varnish applied at an ambient temperature of **20°C** will be completely dry in three hours. At lower temperatures, the drying time is slightly longer.

## Heated seat pad switch: Removal - Refitting

FRONT SEAT WITH HEATING

## REMOVAL

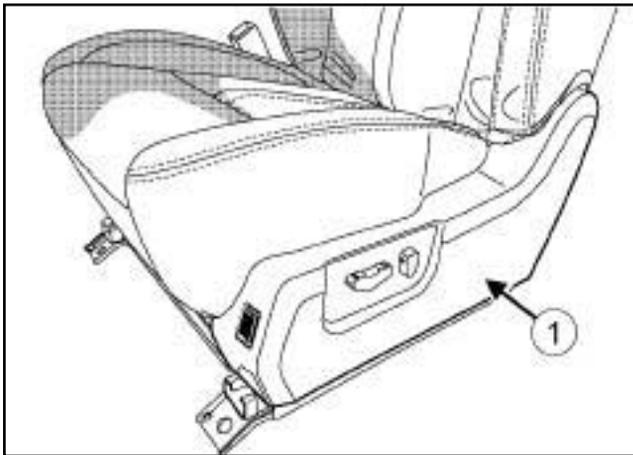
## I - REMOVAL PREPARATION OPERATION



Note:

It is not necessary to remove the front seat completely.

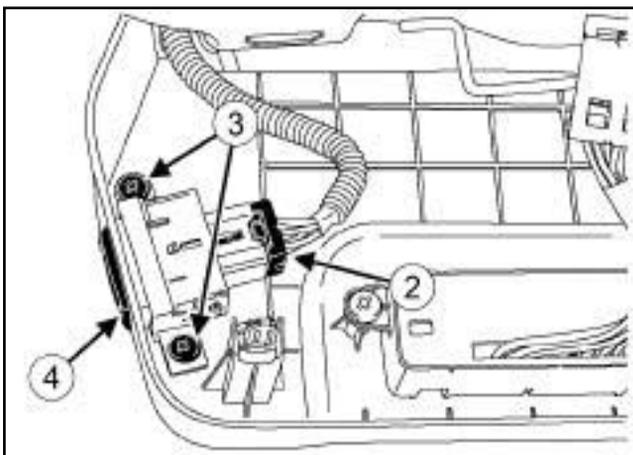
- Move the seat as far forward as possible.



130398

- Remove the front seat lower cover (1) on the side concerned (see **Front seat base trim: Removal - Refitting**) (77A, Front seat trim).

## II - OPERATION FOR REMOVAL OF PART CONCERNED



130399

- Disconnect the connector (2) from the heated seat cover switch.
- Remove:
  - the heated seat cover switch bolts (3) ,
  - the heated seat cover switch (4) .

## REFITTING

## I - REFITTING OPERATION FOR PART CONCERNED

- Refit:

- the heated seat cover switch,
- the heated seat cover switch bolts.

- Connect the heated seat cover switch connector.

## II - FINAL OPERATION.

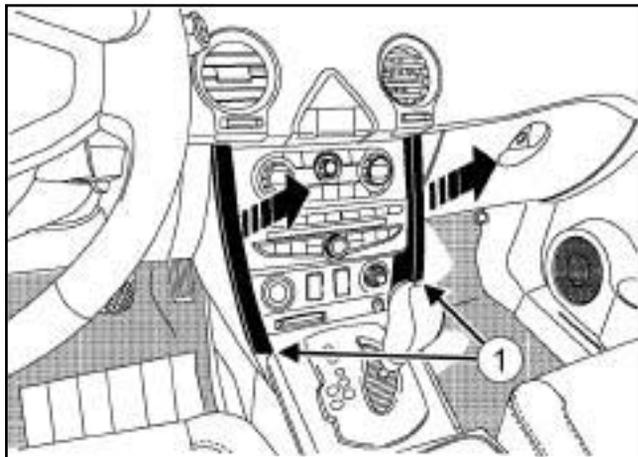
- Refit the front seat lower cover on the side concerned (see **Front seat base trim: Removal - Refitting**) (77A, Front seat trim).

## Hill descent control system: Removal - Refitting

ELECTRONIC STABILITY PROGRAM 2

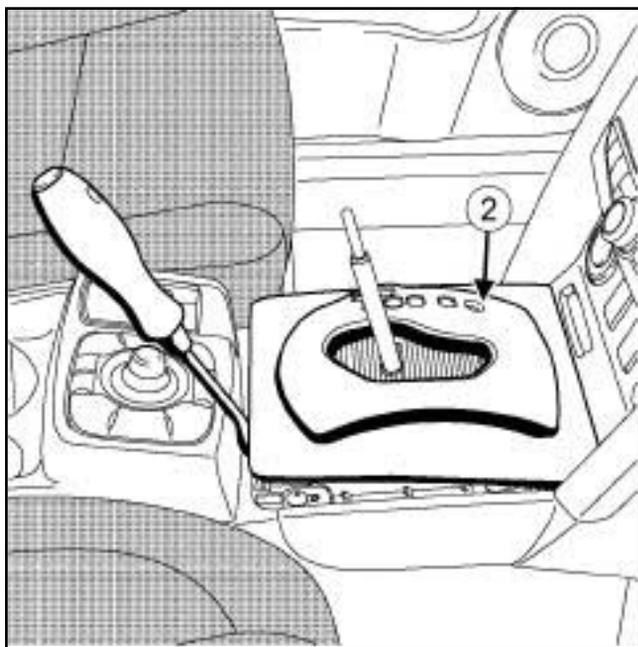
### REMOVAL

#### I - REMOVAL PREPARATION OPERATION



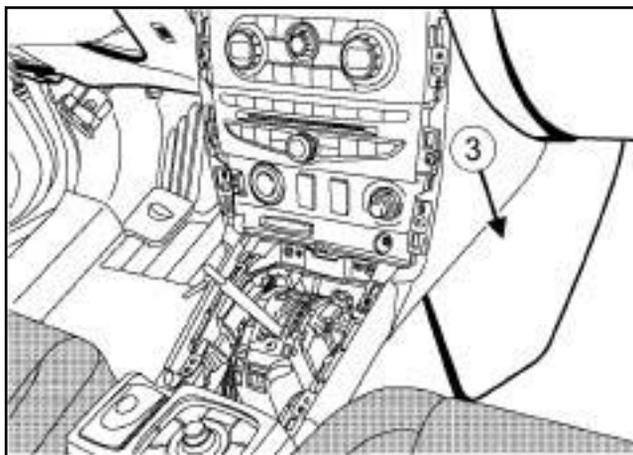
130758

- Remove the centre front panel side trim (1) .



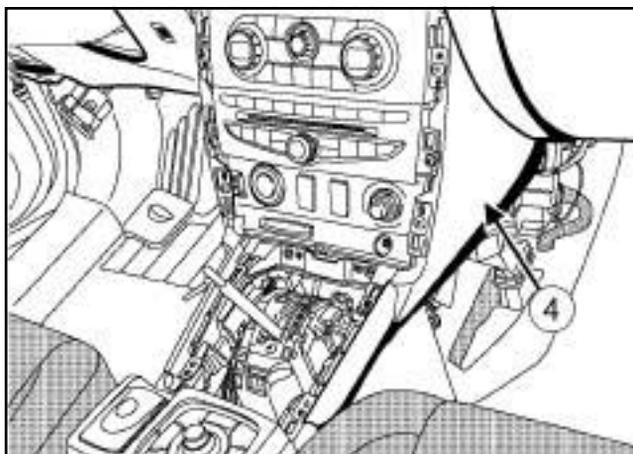
131579

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



131580

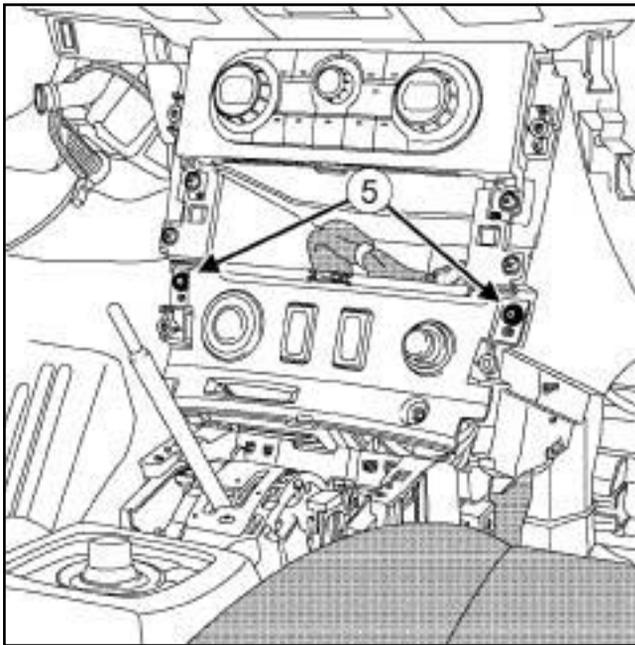
- Remove:
  - the centre front panel lower covers (3) on both sides,
  - the glovebox (see **Glovebox: Removal - Refitting**) ( 57A, Interior equipment),
  - the dashboard lower cover on the driver's side (see **Dashboard: Removal - Refitting**) (57A, Interior equipment).



131581

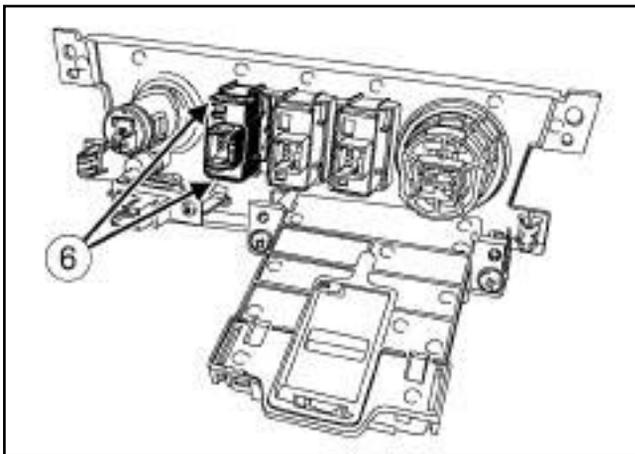
- Remove:
  - the centre front panel side trims (4) on both sides,
  - the CD multi-changer (see **86A, Radio, CD changer: Removal - Refitting**, page 86A-14) ,
  - the radio (see **86A, Radio, Radio: Removal - Refitting**, page 86A-4) .

## ELECTRONIC STABILITY PROGRAM 2

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

131582

- Remove:
  - the starter control panel bolts (5) ,
  - the starter control panel.
- Disconnect the connectors.



131577

- Unclip the clips (6) of the hill descent control switch.
- Remove the hill descent control switch.

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

- Refit the hill descent control switch on the control panel.

- Connect the connectors.
- Refit:
  - the starter control panel,
  - the starter control panel bolts.

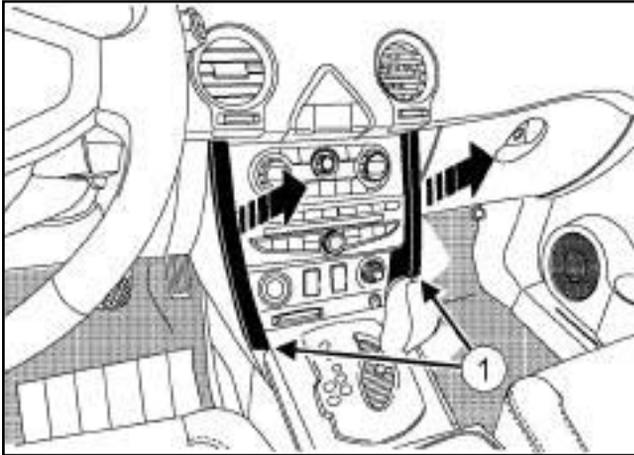
**II - FINAL OPERATION.**

- Refit:
  - the radio (see **86A, Radio, Radio: Removal - Refitting**, page **86A-4**) ,
  - the CD multi-changer (see **86A, Radio, CD changer: Removal - Refitting**, page **86A-14**) ,
  - the centre front panel side trims on both sides,
  - the dashboard lower cover on the driver's side (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
  - the glovebox (see **Glovebox: Removal - Refitting**) ( 57A, Interior equipment),
  - the centre front panel lower covers on both sides,
  - the gear lever plate (see **Centre console: Removal - Refitting**) (57A, Interior equipment),
  - the centre front panel side trim.

4X4 TRANSMISSION

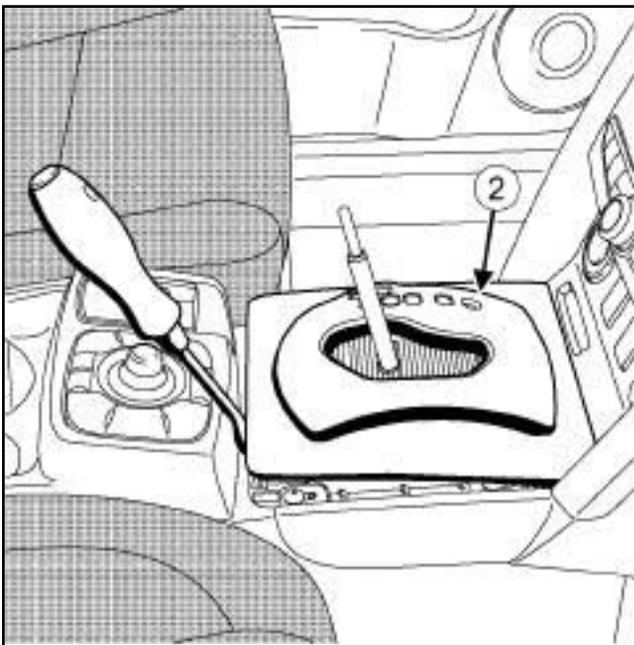
### REMOVAL

#### I - REMOVAL PREPARATION OPERATION



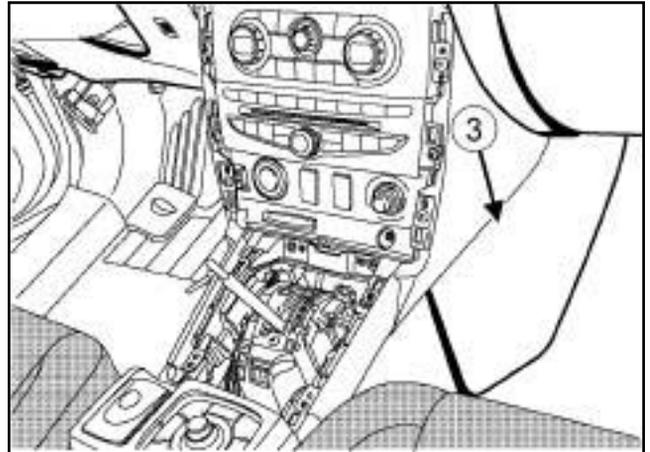
130758

- Remove the centre front panel side trim (1) .



131579

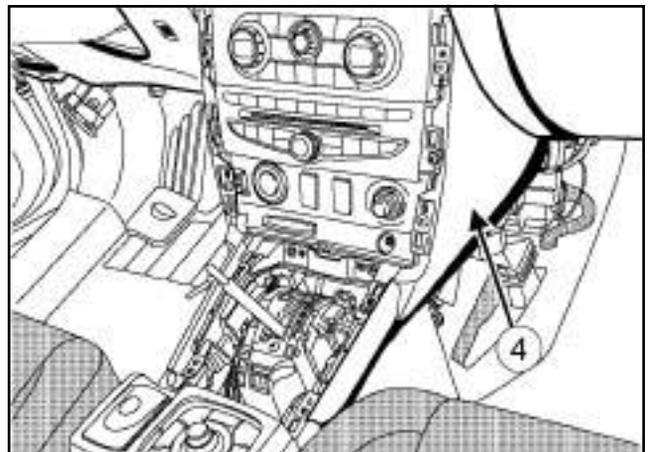
- Remove the plate (2) from the gear lever (see **Centre console: Removal - Refitting**) (57A, Interior equipment).



131580

- Remove:

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



131581

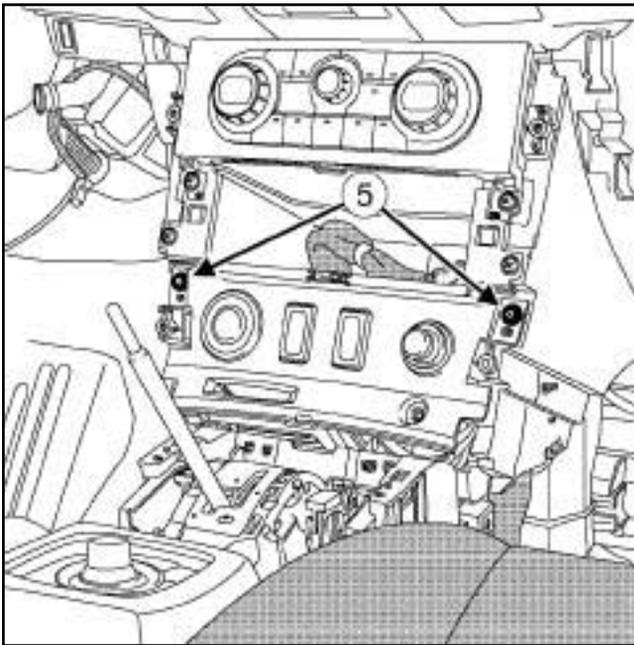
- Remove:

- the centre front panel side trims (4) on both sides,
- the CD multi-changer (see **86A, Radio, CD changer: Removal - Refitting**, page 86A-14) ,
- the radio (see **86A, Radio, Radio: Removal - Refitting**, page 86A-4) .

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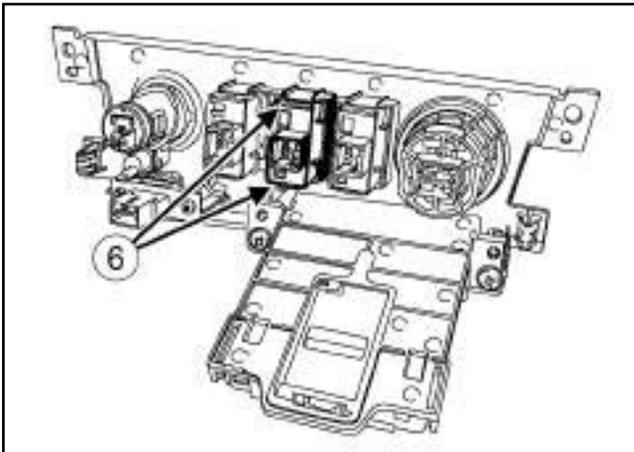
### 4X4 TRANSMISSION

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



131582

- Remove:
  - the starter control panel bolts (5) ,
  - the starter control panel.
- Disconnect the connectors.



131583

- Unclip the transmission mode switch clips (6) .
- Remove the transmission mode switch.

#### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

- Refit the transmission mode switch on the starter control panel.

- Connect the connectors.
- Refit:
  - the starter control panel,
  - the starter control panel bolts.

#### II - FINAL OPERATION.

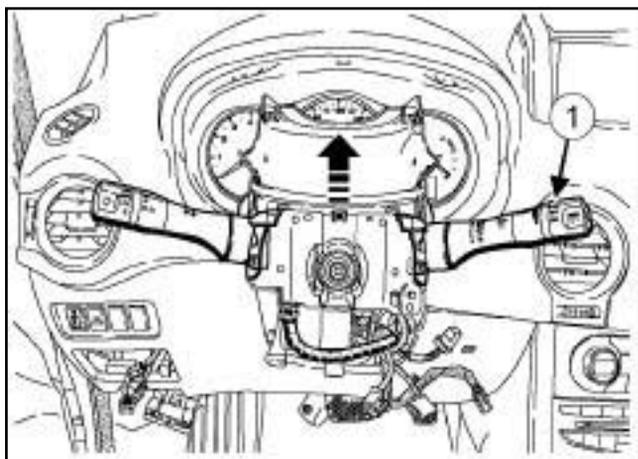
- Refit:
  - the radio (see **86A, Radio, Radio: Removal - Refitting**, page **86A-4**) ,
  - the CD multi-changer (see **86A, Radio, CD changer: Removal - Refitting**, page **86A-14**) ,
  - the centre front panel side trims on both sides,
  - the dashboard lower cover on the driver's side (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
  - the glovebox (see **Glovebox: Removal - Refitting**) ( 57A, Interior equipment),
  - the centre front panel lower covers on both sides,
  - the gear lever plate (see **Centre console: Removal - Refitting**) (57A, Interior equipment),
  - the centre front panel side trim.

### I - LIST OF COMPONENTS

No.	Description
(1)	Wiper stalk
(2)	UCH
(3)	Passenger compartment fuse and relay box
(4)	Windscreen wiper blade
(5)	Windscreen wiper blade arm
(6)	Windscreen wiper mechanism
(7)	Windscreen wiper motor
(8)	Windscreen wiper jet
(9)	Rear screen wiper blade
(10)	Rear screen wiper blade arm
(11)	Rear screen wiper motor
(12)	Rear screen wiper jet
(13)	Windscreen washer bottle
(14)	Windscreen washer pump
(15)	Windscreen washer neck
(16)	Rain and light sensor

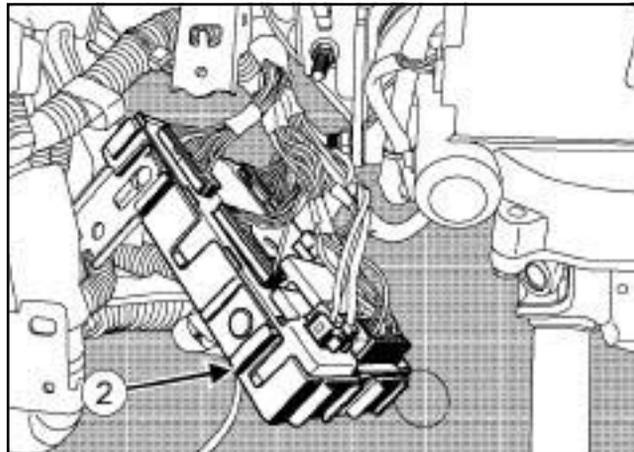
### II - LOCATION OF COMPONENTS

#### 1 - Wiper stalk



130400

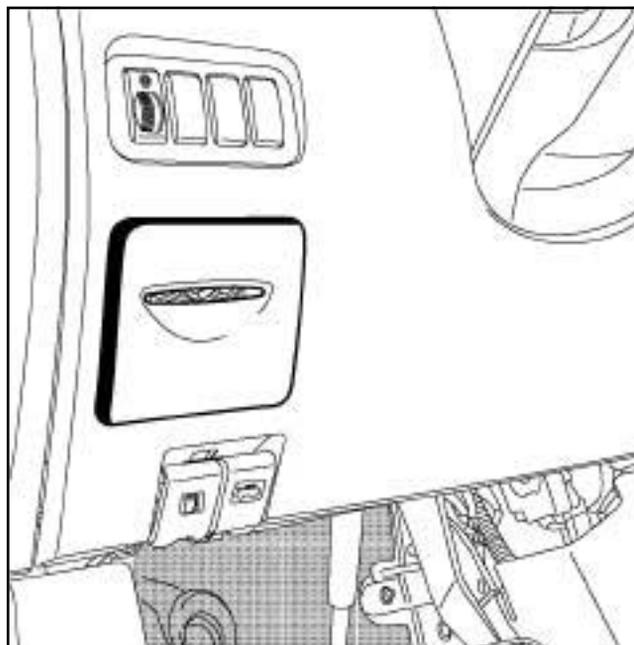
#### 2 - UCH



130401

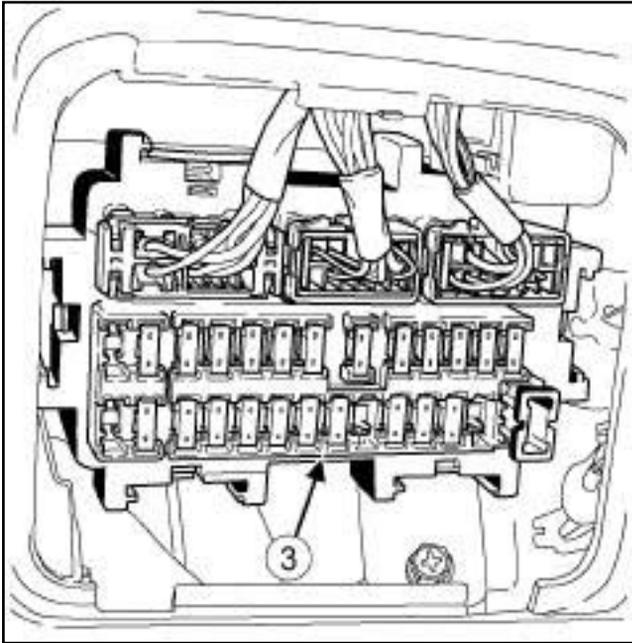
The UCH is located in the dashboard, behind the passenger compartment fuse and relay box. To remove it (see **87B, Passenger compartment connection unit, UCH: Removal - Refitting**, page 87B-1) .

#### 3 - Passenger compartment fuse and relay box



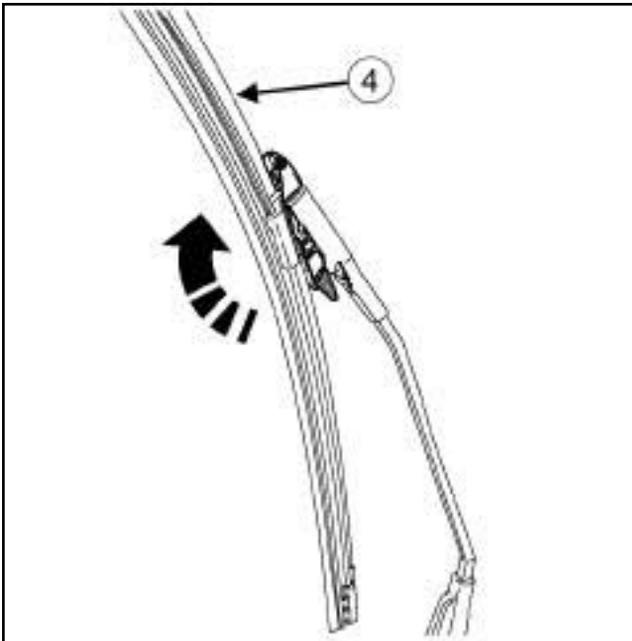
130402

## Wiping and washing: List and location of components



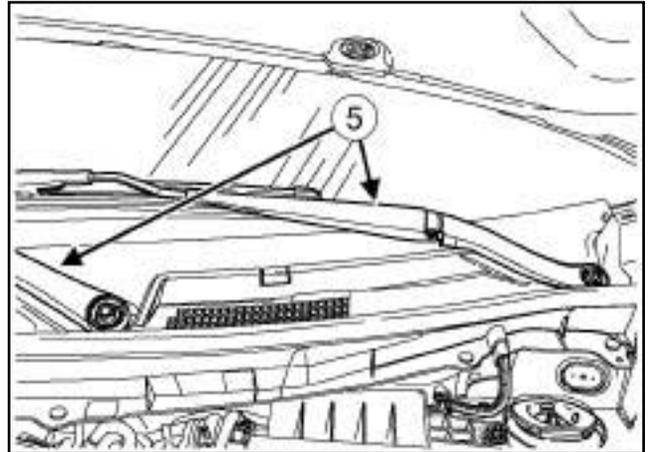
130403

4 - Windscreen wiper blade



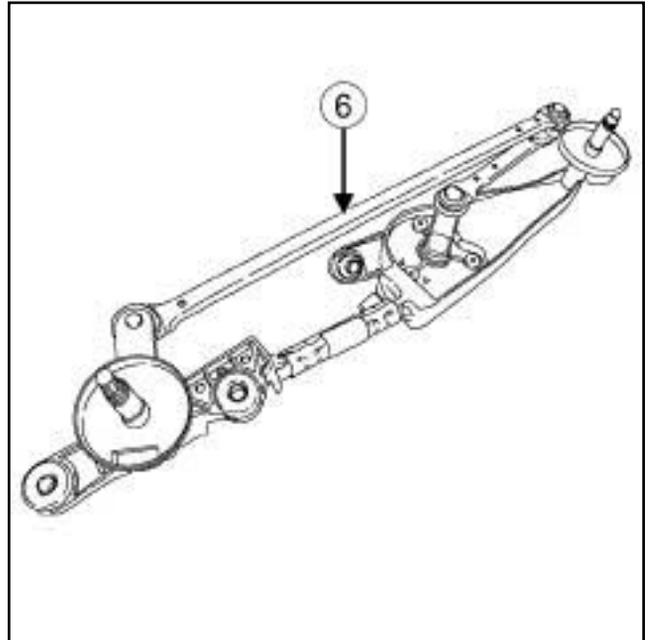
130405

5 - Windscreen wiper blade arm



130406

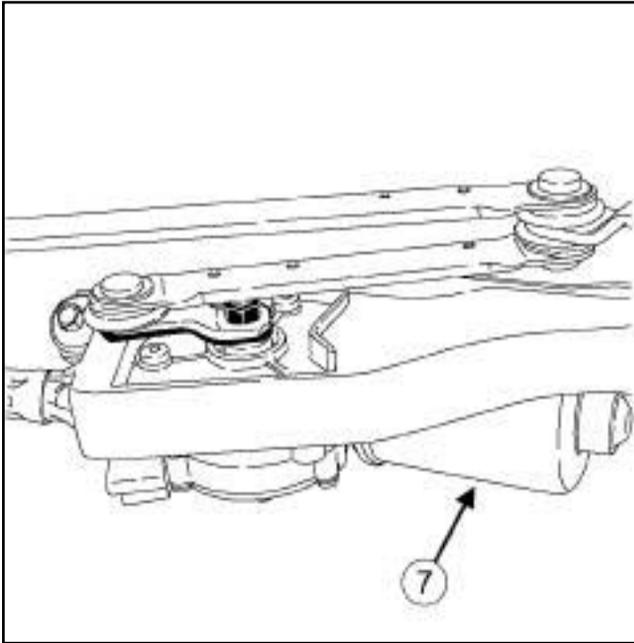
6 - Windscreen wiper mechanism



130425

## Wiping and washing: List and location of components

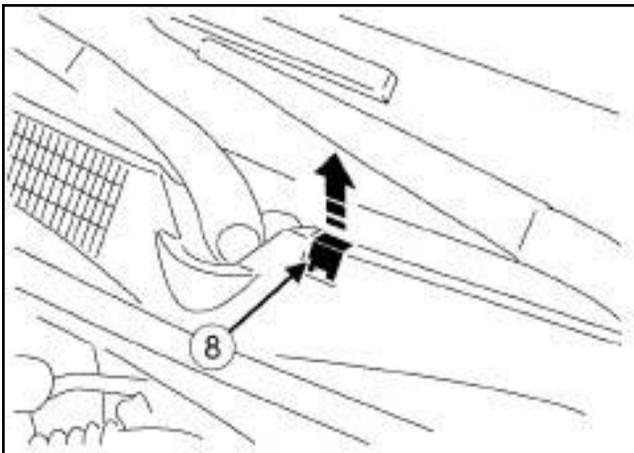
### 7 - Windscreen wiper motor



130407

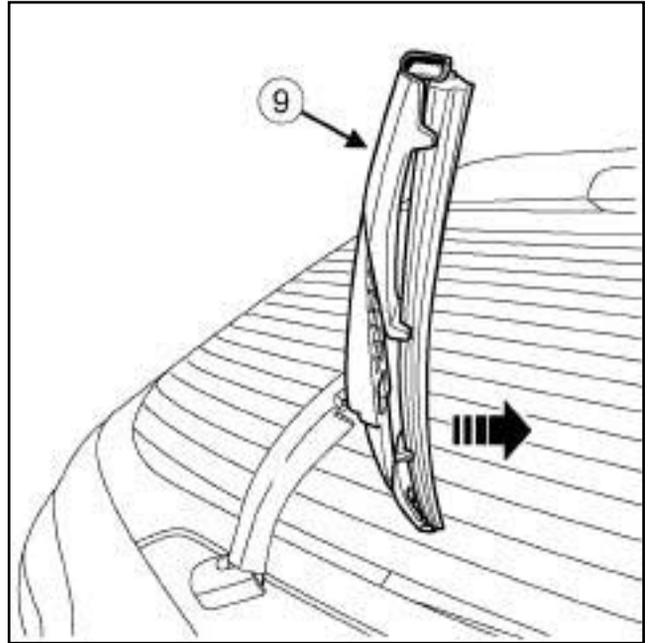
The windscreen wiper motor is incorporated into the windscreen wiper mechanism (see **85A, Wiping - Washing, Windscreen wiper mechanism: Removal - Refitting**, page 85A-9) .

### 8 - Windscreen wiper jet



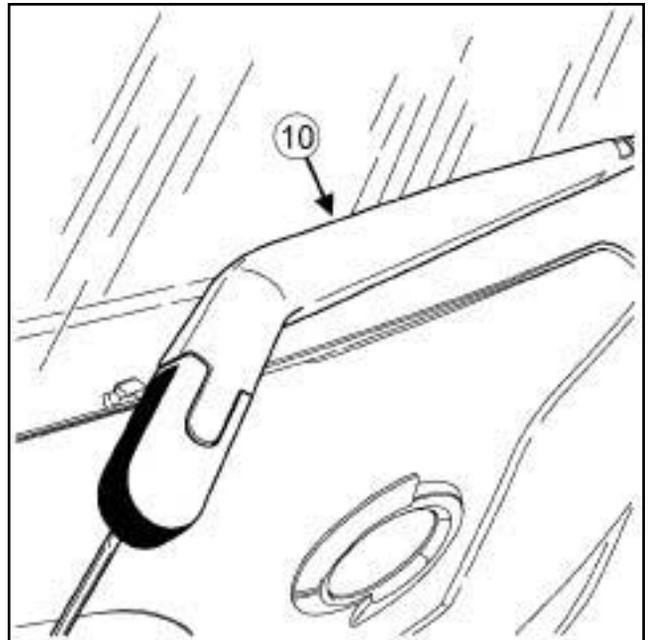
130408

### 9 - Rear screen wiper blade



130409

### 10 - Rear screen wiper blade arm

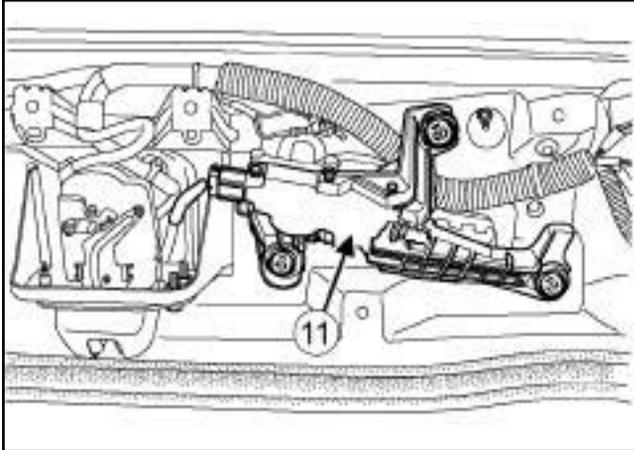


130410

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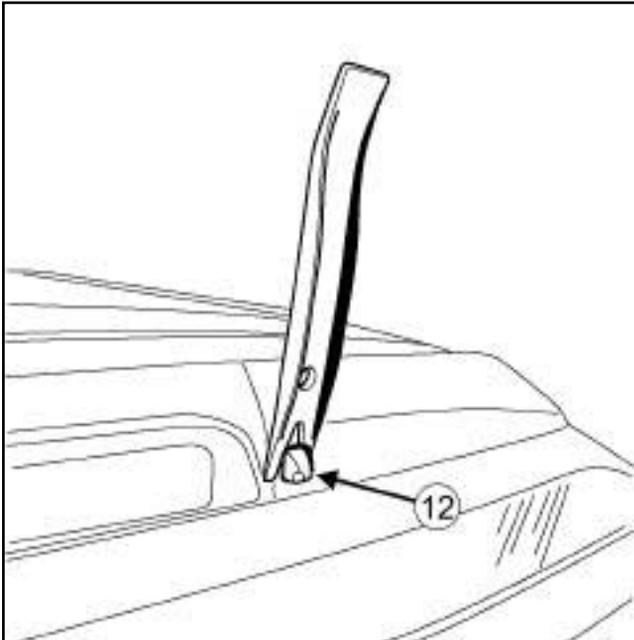
## Wiping and washing: List and location of components

11 - Rear screen wiper motor



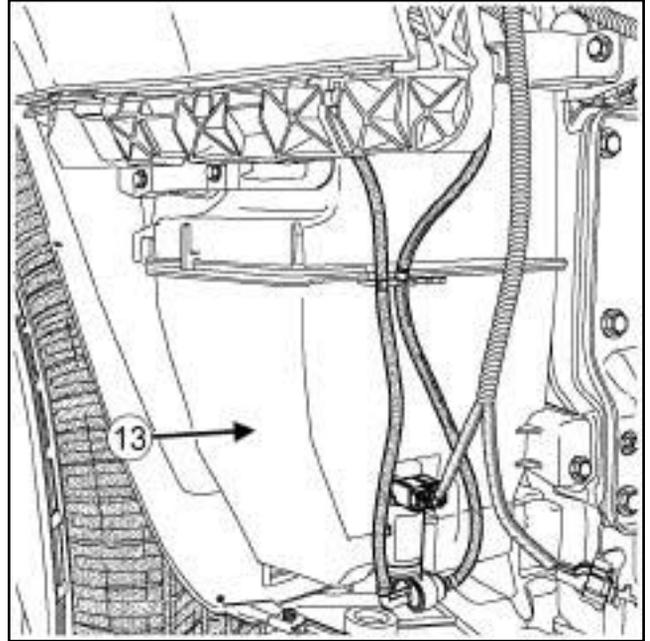
130411

12 - Rear screen wiper jet



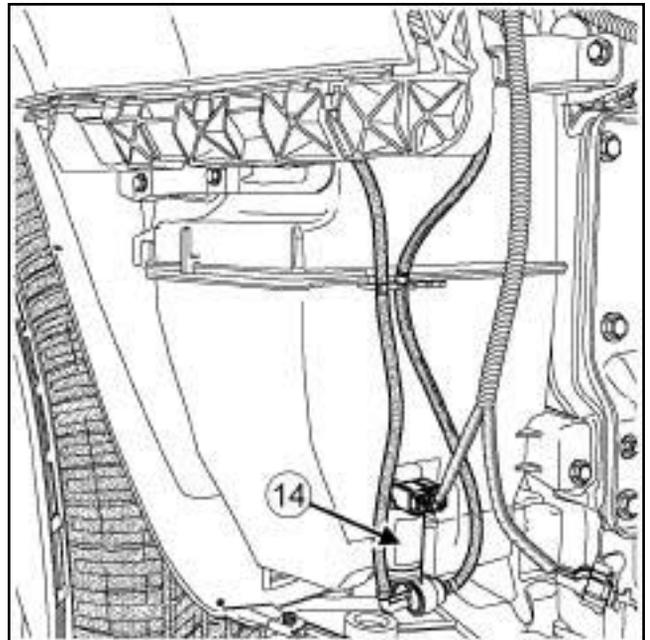
130412

13 - Windscreen washer bottle



130413

14 - Windscreen washer pump

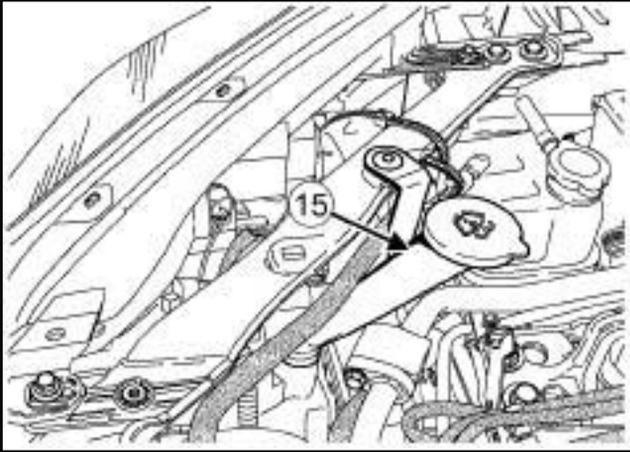


130414

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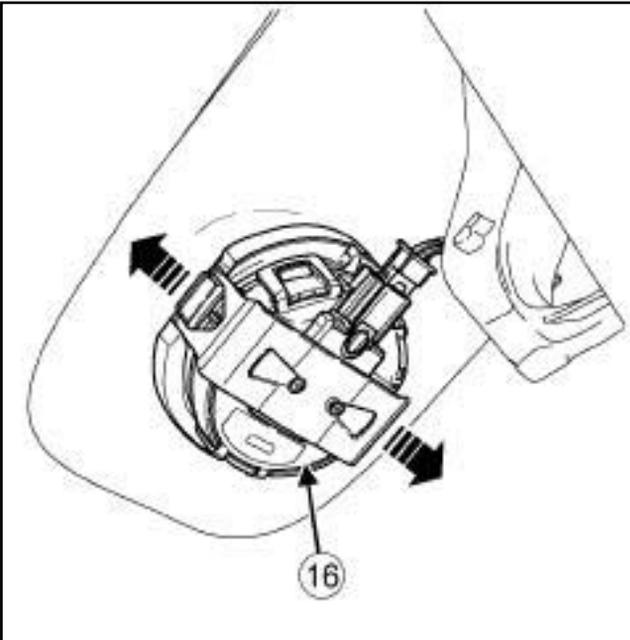
## Wiping and washing: List and location of components

### 15 - Windscreen washer neck



130415

### 16 - Rain and light sensor



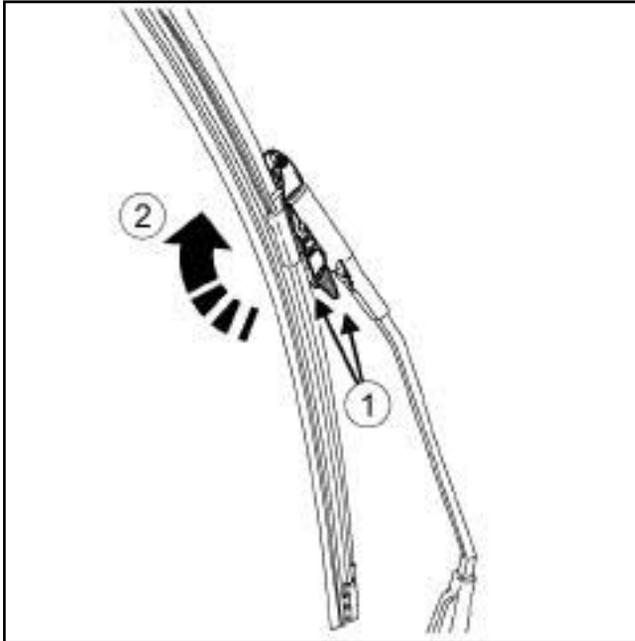
130416

The rain and light sensor is located underneath the interior rear-view mirror covers.

## Windscreen wiper blade: Removal - Refitting

### REMOVAL

#### OPERATION FOR REMOVAL OF PART CONCERNED

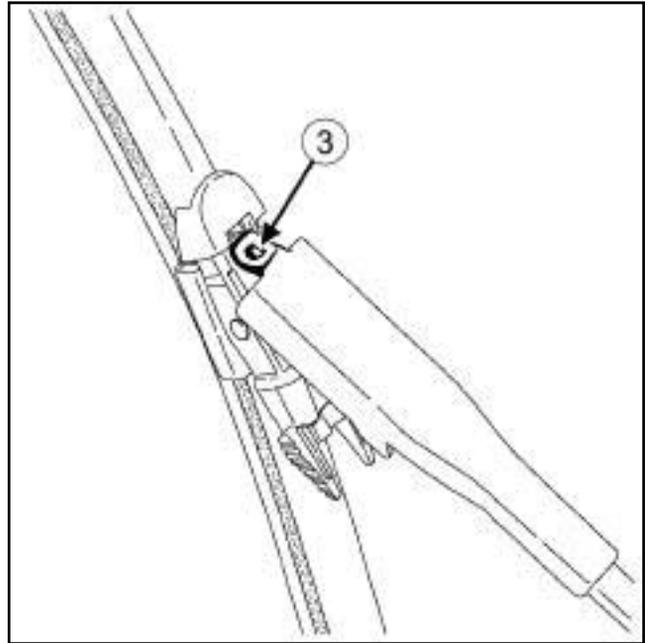


130418

- Press the clips (1) on both sides while turning the windscreen wiper blade in the direction of the arrow (2) .
- Remove the windscreen wiper blade.

### REFITTING

#### REFITTING OPERATION FOR PART CONCERNED



130419

- Refit the windscreen wiper blade on the end (3) of the wiper arm.
- Clip the windscreen wiper blade onto the windscreen wiper arm.

## Windscreen wiper arm: Removal - Refitting

### Special tooling required

<b>Ele. 1865</b>	Tool for removing windscreen wiper arms
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### Tightening torques

windscreen wiper arm nut24	<b>N.m</b>
----------------------------	------------

## REMOVAL

### I - REMOVAL PREPARATION OPERATION

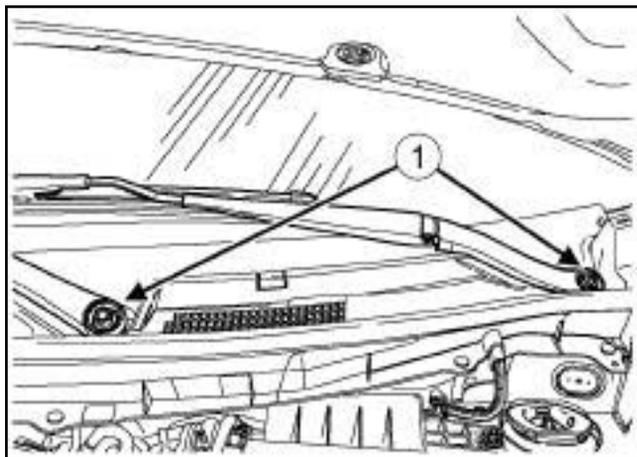
- Switch on the ignition.

#### WARNING

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

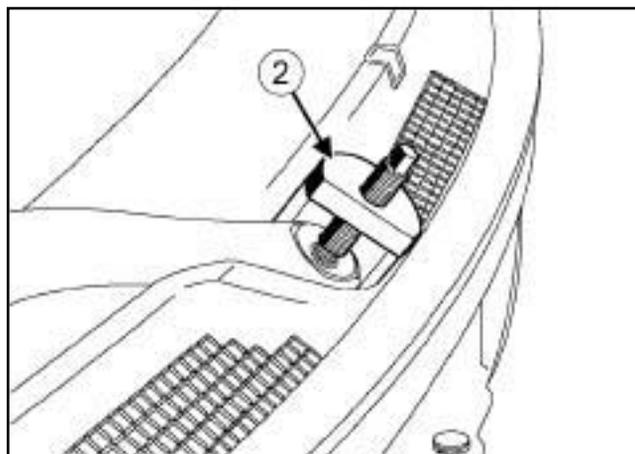
- Turn the wiper switch stalk from **(0)** to **(1)**, and then from **(1)** to **(0)**.
- Switch off the ignition.
- Mark the position of the wiper arms for the refitting operation.

### II - OPERATION FOR REMOVAL OF PART CONCERNED



130420

- Remove:
  - the covers from the screen wiper arm nuts,
  - the nuts **(1)** from the screen wiper arm.

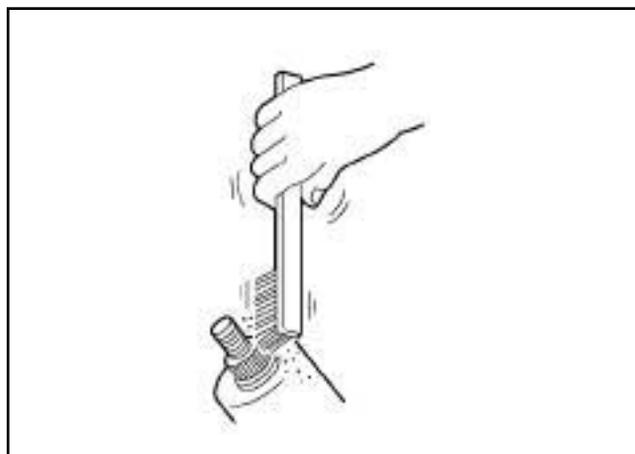


130421

- Remove the wiper arm using the **(Ele. 1865) (2)**.

## REFITTING

### I - REFITTING PREPARATION OPERATION



130422

- Clean the screen wiper arm mounting to prevent the nut from coming loose.

### II - 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 switch stalk from **(0)** to **(1)**, and then from **(1)** to **(0)**.
- Switch off the ignition.

# WIPING - WASHING

## Windscreen wiper arm: Removal - Refitting

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**85A**

- Refit:
  - the wiper arm in the position marked before removal,
  - the wiper arm nut.
- Torque tighten the **windscreen wiper arm nut24 (N.m)**.
- Refit the wiper arm nut cover.

## Windscreen wiper mechanism: Removal - Refitting

### Tightening torques

windscreen wiper mechanism bolts	5 N.m
----------------------------------	-------

## REMOVAL

### I - REMOVAL PREPARATION OPERATION

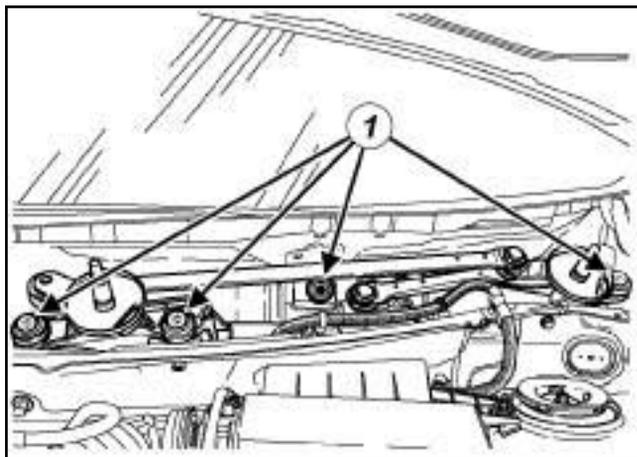
- Switch on the ignition.

#### WARNING

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

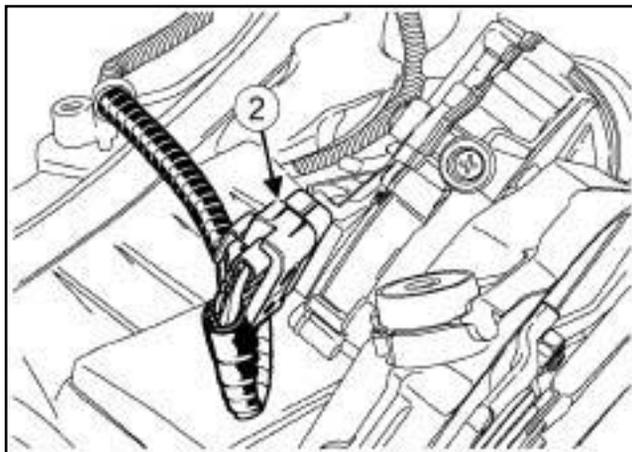
- Turn the wiper stalk from (0) to (1), and then from (1) to (0).
- Switch off the ignition.
- Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page 80A-3) .
- Remove:
  - the front wiper arms (see **85A, Wiping - Washing, Windscreen wiper arm: Removal - Refitting**, page 85A-7) ,
  - the scuttle panel half-grille (see **Scuttle panel half-grille: Removal - Refitting**) (56A, Exterior equipment).

### II - OPERATION FOR REMOVAL OF PART CONCERNED



130423

- Remove the bolts (1) from the windscreen wiper mechanism.



130424

- Partially remove the windscreen wiper mechanism.
- Disconnect the windscreen wiper motor connector (2) .
- Remove the windscreen wiper mechanism.

## REFITTING

### I - REFITTING OPERATION FOR PART CONCERNED

- Connect the windscreen wiper motor connector.
- Refit:
  - the windscreen wiper mechanism,
  - the windscreen wiper mechanism bolts.
- Torque tighten the **windscreen wiper mechanism bolts (5 N.m)**.

### II - FINAL OPERATION.

- Refit the scuttle panel half-grille (see **Scuttle panel half-grille: Removal - Refitting**) (56A, Exterior equipment).
- Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page 80A-3) .
- Switch on the ignition.

#### WARNING

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

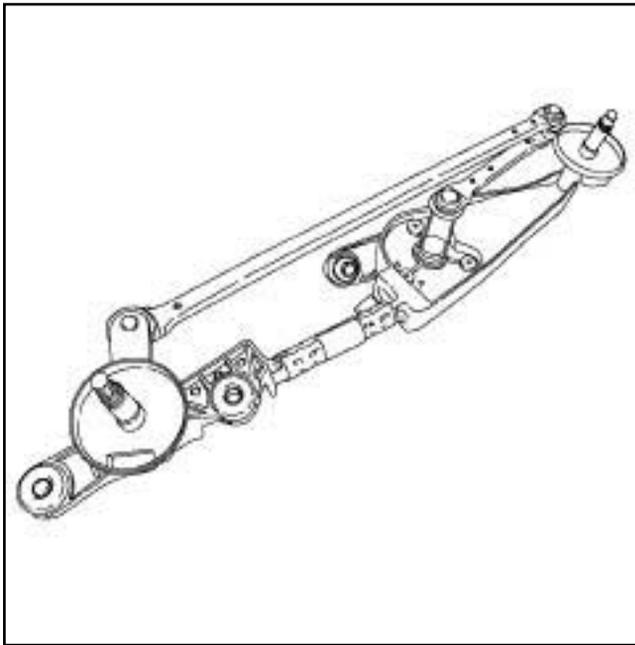
- Turn the wiper stalk from (0) to (1), and then from (1) to (0).
- Switch off the ignition.

## Windscreen wiper mechanism: Removal - Refitting

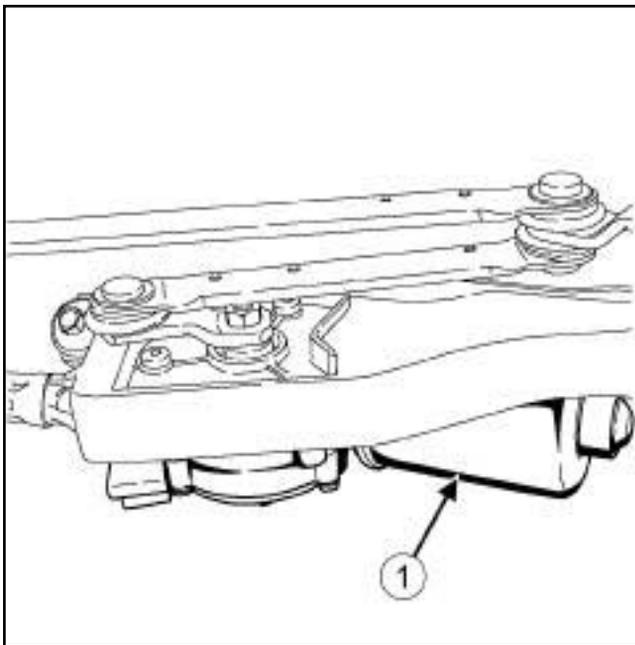
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- Refit the front wiper arms (see 85A, **Wiping - Washing, Windscreen wiper arm: Removal - Refitting**, page 85A-7) .

## Windscreen wiper motor: Removal - Refitting



130425



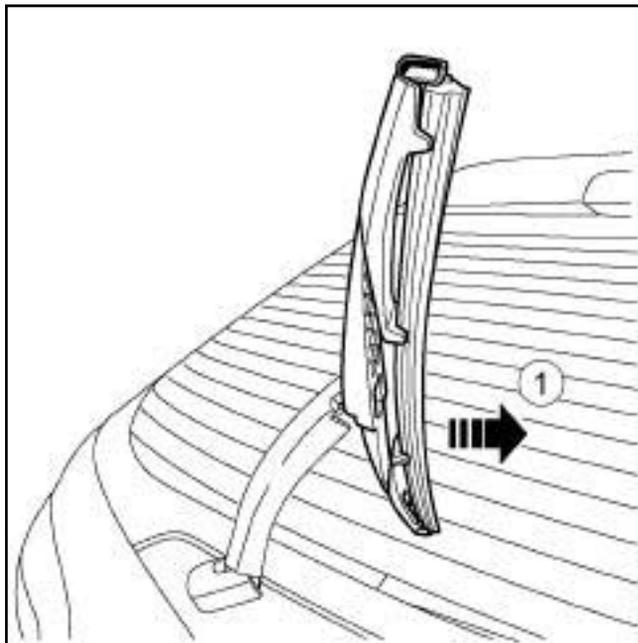
130426

The windscreen wiper motor (1) is incorporated into the windscreen wiper mechanism (see **85A, Wiping - Washing, Windscreen wiper mechanism: Removal - Refitting**, page 85A-9) .

## Rear screen wiper blade: Removal - Refitting

## REMOVAL

## OPERATION FOR REMOVAL OF PART CONCERNED



130427

- Lift the rear screen wiper arm.
- Turn the rear screen wiper arm.
- Remove the rear screen wiper blade by pulling it in the direction of the arrow (1) .

## REFITTING

## REFITTING OPERATION FOR PART CONCERNED

- Refit the rear screen wiper blade to the rear screen wiper arm.
- Lower the rear screen wiper arm.

## Rear screen wiper arm: Removal - Refitting

Special tooling required	
Ele. 1841	Tool for removing windscreen wiper arms

Tightening torques 	
rear screen wiper arm nut	9 N.m

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

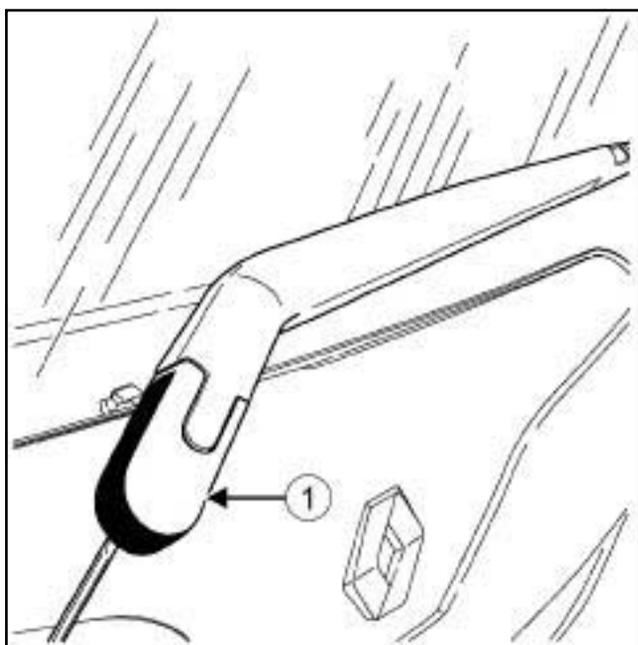
- Switch on the ignition.

#### WARNING

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

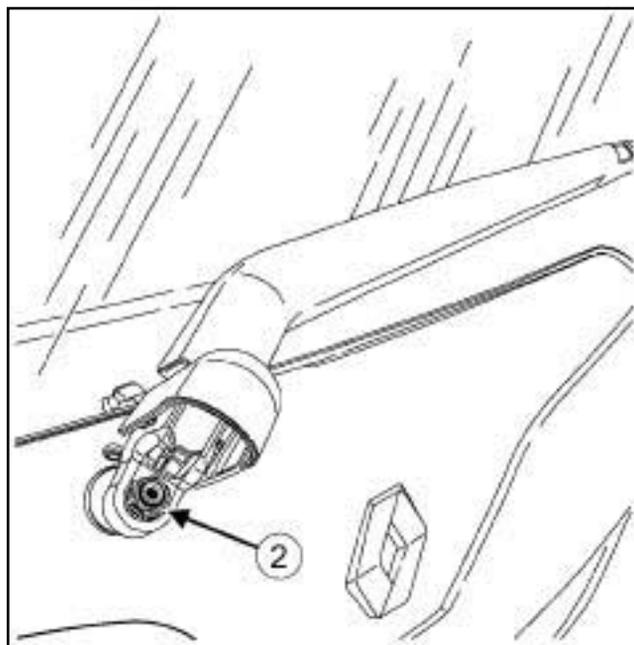
- Turn the wiper stalk from (0) to (1), and then from (1) to (0).
- Switch off the ignition.
- Mark the position of the rear screen wiper arm.

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



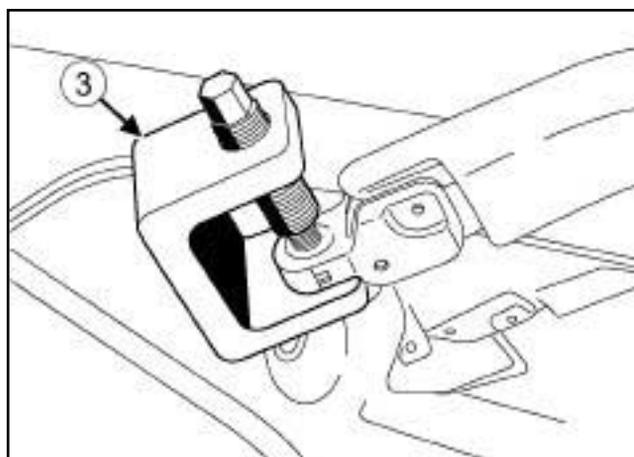
130428

- Open the rear screen wiper arm nut cover (1).



130429

- Remove the nut (2) from the rear screen wiper arm.



130430

- Remove the rear screen wiper arm using the (Ele. 1841) (3).

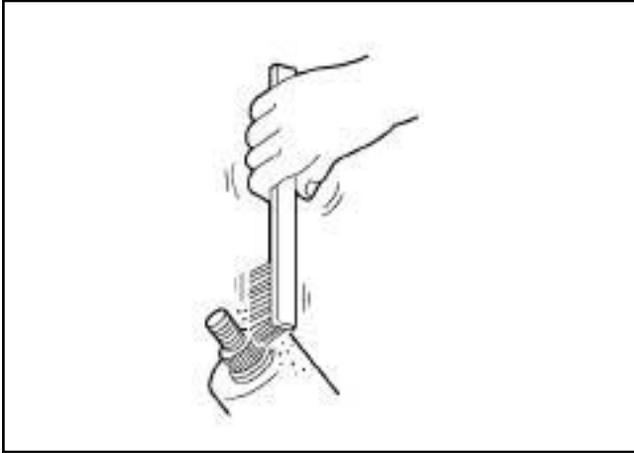
# WIPING - WASHING

## Rear screen wiper arm: Removal - Refitting

# 85A

### REFITTING

#### I - REFITTING PREPARATION OPERATION



130431

- Clean the rear screen wiper arm mounting to prevent the nut from coming loose.

#### II - 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 rear screen wiper arm in the position marked before the removal operation,
  - the rear screen wiper arm nut.
- Torque tighten the **rear screen wiper arm nut (9 N.m)**.
- Close the rear screen wiper arm nut cover.

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## Rear screen wiper motor: Removal - Refitting

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

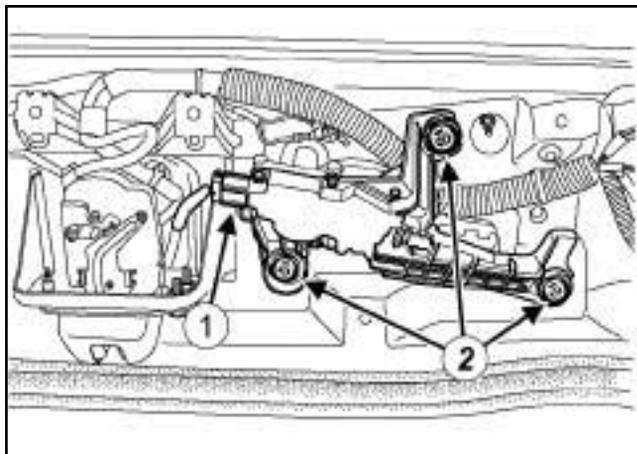
- Switch on the ignition.

#### WARNING

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

- Turn the wiper switch stalk from (0) to (1), and then from (1) to (0).
- Switch off the ignition.
- Mark the position of the rear screen wiper arm.
- Remove:
  - the rear screen wiper arm (see **85A, Wiping - Washing, Rear screen wiper arm: Removal - Refitting**, page **85A-13**),
  - the lower tailgate trim (see **Tailgate trim: Removal - Refitting**) (73A, Non-side opening elements trim).

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



130432

- Disconnect the rear screen wiper motor connector (1).
- Remove:
  - the bolts (2) from the rear screen wiper motor,
  - the rear screen wiper motor.

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

- Refit:
  - the rear screen wiper motor,
  - the rear screen wiper motor bolts.
- Connect the rear screen wiper motor connector.

#### II - FINAL OPERATION.

- Switch on the ignition.

#### WARNING

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

- Turn the wiper switch stalk from (0) to (1), and then from (1) to (0).
- Switch off the ignition.
- Refit:
  - the lower tailgate trim (see **Tailgate trim: Removal - Refitting**) (73A, Non-side opening elements trim),
  - the rear screen wiper arm (see **85A, Wiping - Washing, Rear screen wiper arm: Removal - Refitting**, page **85A-13**).

# WIPING - WASHING

## Rain and light sensor: Removal - Refitting

# 85A

LIGHTS + AUTOMATIC WINDSCREEN WIPER

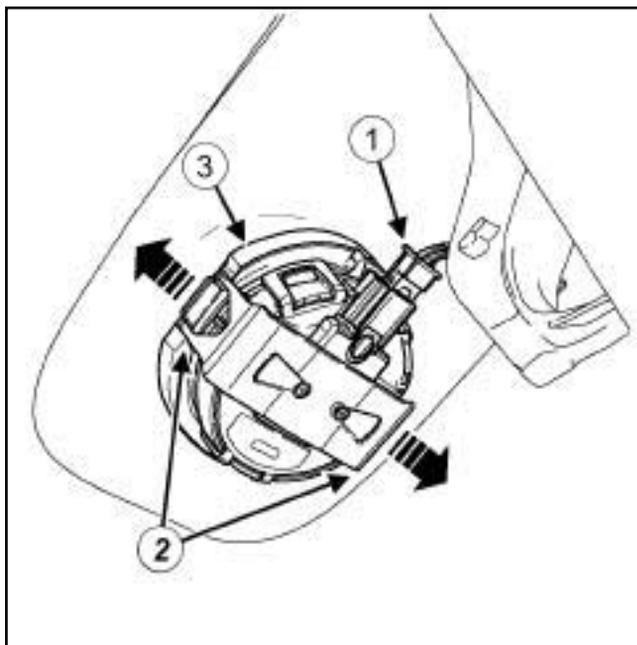
### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

- ❑ Remove the covers from the interior rear-view mirror (see **Interior rear-view mirror: Removal - Refitting**) (57A, Interior equipment).

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

##### 1 - Replacing the rain and light sensor



130840

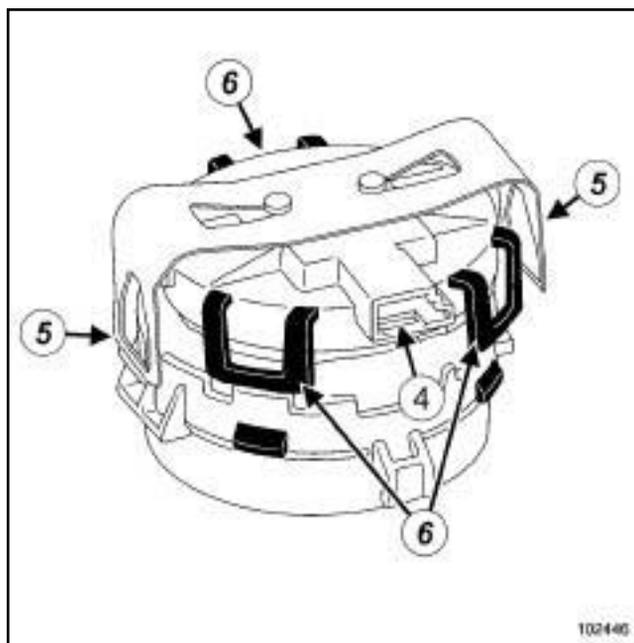
- ❑ Disconnect the rain and light sensor connector (1) .
- ❑ Unclip the two side clips (2) from the rain and light sensor (3) using a small flat-blade screwdriver,
- ❑ Separate the rain and light sensor from its mounting.

##### 2 - Replacing the windscreen

❑

#### Note:

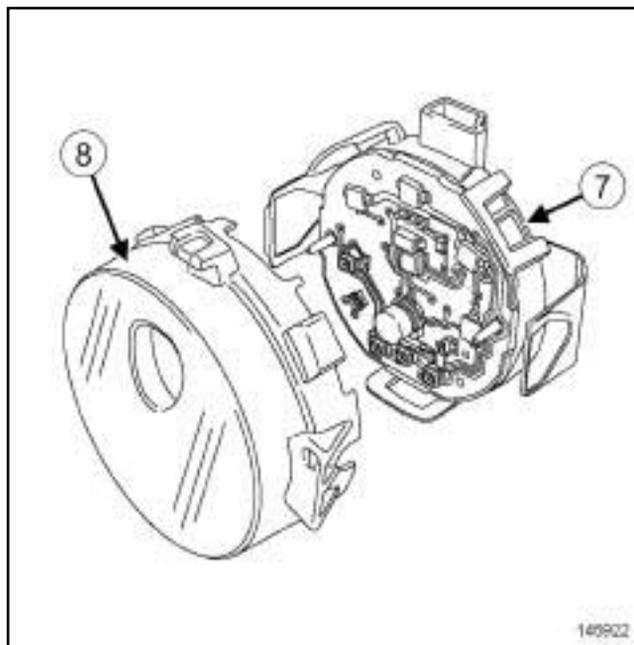
The rain and light sensor mounting is supplied with the new windscreen; remove only the rain and light sensor.



102446

102446

- ❑ Disconnect the connector at (4) .
- ❑ Unclip:
  - the two side clips (5) from the rain and light sensor mounting using a small flat-blade screwdriver,
  - the clips (6) from the printed circuit of the rain and light sensor.



149922

145922

- ❑ Remove the rain and light sensor printed circuit (7) from the rain and light sensor cover (8) .

# WIPING - WASHING

## Rain and light sensor: Removal - Refitting

# 85A

LIGHTS + AUTOMATIC WINDSCREEN WIPER

### REFITTING

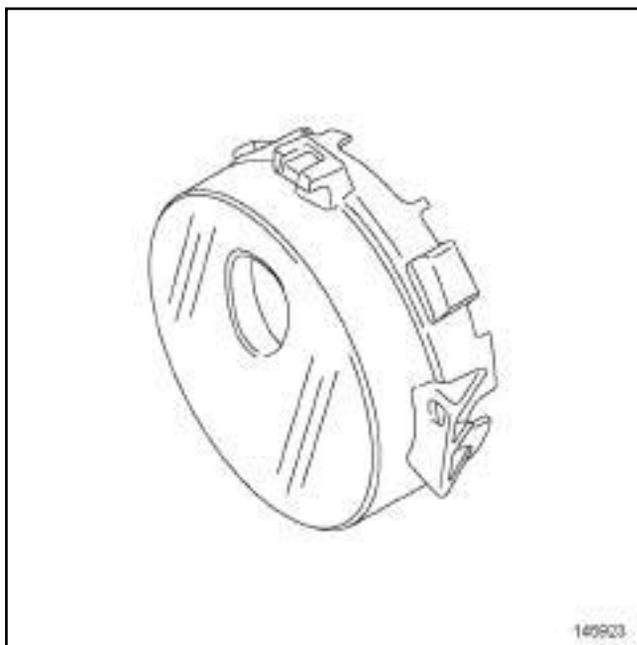
#### I - REFITTING PREPARATION OPERATION



##### WARNING

The rain sensor must be removed and refitted under conditions of extreme cleanliness: any dust or fibres may cause a fault. Do not touch the electronic part of the sensor. Fit the sensor to the vehicle immediately after removing it from its packaging.

- On the inside of the windscreen, clean the inside of the sensor mounting.
- Clean the outside of the windscreen in the area covered by the rain and light sensor.



- Always replace the new adhesive base with the cover of the new rain and light sensor when replacing the windscreen.

#### II - REFITTING OPERATION FOR PART CONCERNED



##### Note:

The audible locking of the side clips fixing the rain and light sensor onto its mounting on the windscreen confirm that it is correctly held and positioned.

##### Note:

To avoid damaging the adhesive base, do not turn the rain and light sensor once it is positioned on the windscreen.

#### 1 - Replacing the rain and light sensor

- Fit the rain and light sensor onto the mounting.
- Clip the two side clips **(2)** onto the rain and light sensor mounting.
- Connect the connector for the rain and light sensor.

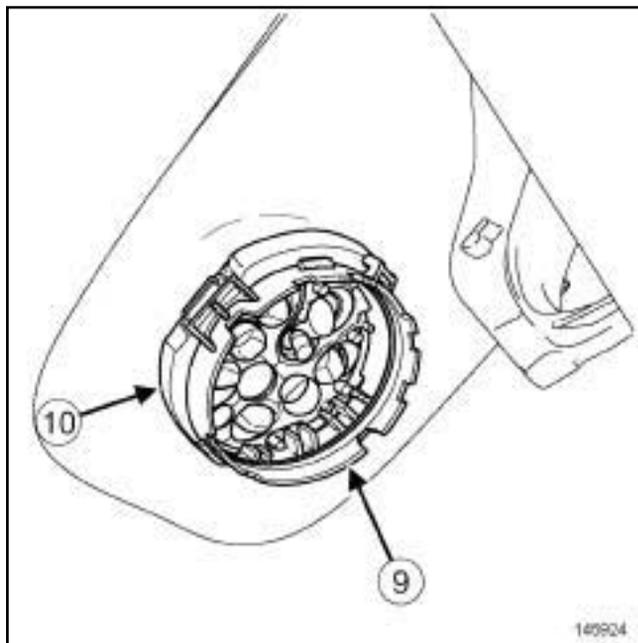
# WIPING - WASHING

## Rain and light sensor: Removal - Refitting

# 85A

LIGHTS + AUTOMATIC WINDSCREEN WIPER

### 2 - Replace the windscreen



145924

#### □ Position:

- the new adhesive base with the new rain and light sensor cover (9) in the rain and light sensor mounting (10) ,
- the rain and light sensor printed circuit (7) onto the rain and light sensor cover.

#### □ Clip on:

- the clips (6) of the rain and light sensor printed circuit onto the rain and light sensor cover,
- the two side clips (5) onto the rain and light sensor mounting.

#### □ Connect the connector for the rain and light sensor.

### III - FINAL OPERATION

- Refit the covers of the interior rear-view mirror (see **Interior rear-view mirror: Removal - Refitting**) (57A, Interior equipment).
- Carry out an operating test:
  - select automatic wiping mode,
  - spray droplets of water onto the windscreen within the sensor detection area,
  - check that the automatic wiping function is operating correctly.

# WIPING - WASHING

## Screen washer pump: Removal - Refitting

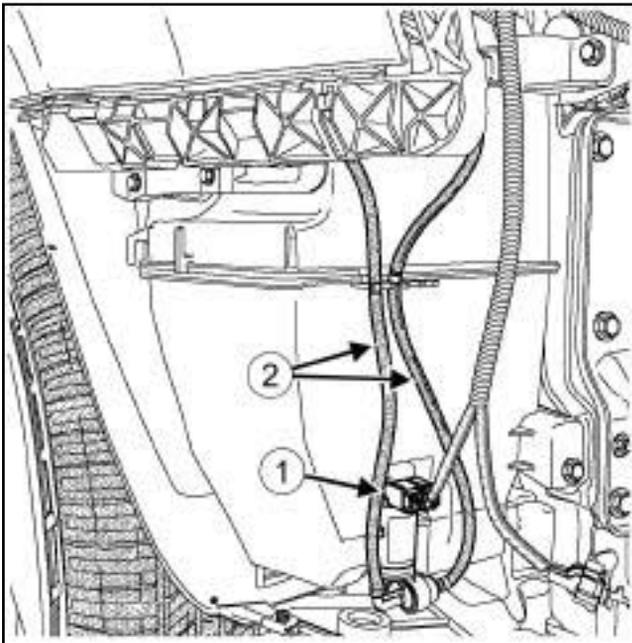
# 85A

### 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: Removal - Refitting**) (55A, Exterior protection).

#### II - REMOVAL OF PART CONCERNED



131366

- Place a container underneath the windscreen washer bottle.
- Disconnect:
  - the connector **(1)** from the windscreen washer pump,
  - the supply pipes **(2)**.

Note:

Mark the routing of the supply pipes and wiring.

- Remove the windscreen washer pump.

### REFITTING

#### I - REFITTING PART CONCERNED

- Refit the windscreen washer pump.
- Connect:
  - the supply pipes,
  - the windscreen washer pump connector.

#### II - FINAL OPERATION.

- Refit the front bumper (see **Front bumper: Removal - Refitting**) (55A, Exterior protection).
- Fill-up the windscreen washer bottle.

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## Headlight washer pump: Removal - Refitting

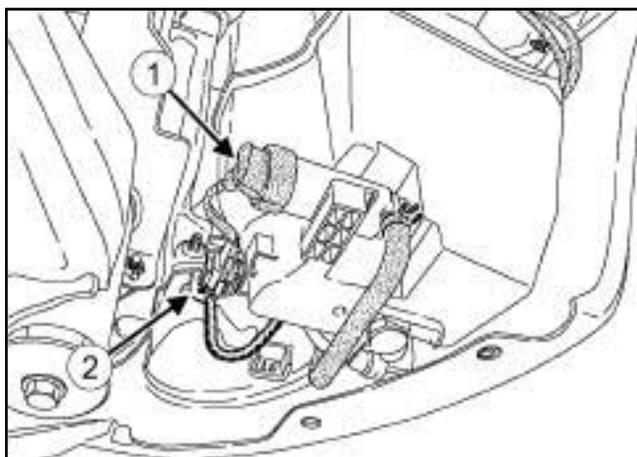
## HEADLIGHT WASHERS WITH BLADE

## REMOVAL

## I - REMOVAL PREPARATION OPERATION

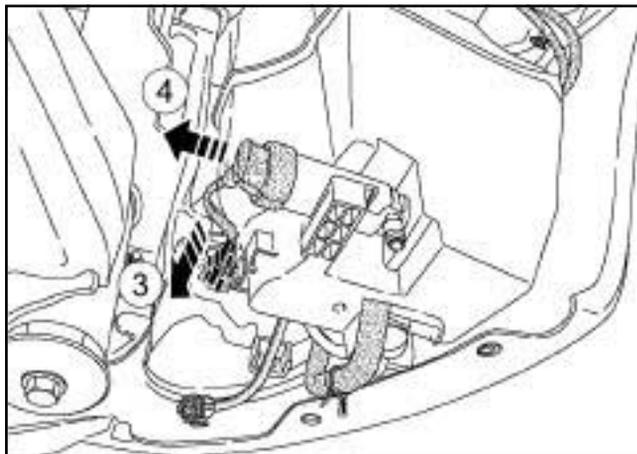
- Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (02A, Lifting equipment).
- Partially remove the front wheel arch liner (see **Front wheel arch liner: Removal - Refitting**) (55A, Exterior protection).

## II - OPERATION FOR REMOVAL OF PART CONCERNED



131735

- Unfasten clip (1) .
- Disconnect:
  - the headlight washer hose,
  - the headlight washer pump connector (2) .



131736

- Unclip:
  - the headlight washer pump connector in the direction (3) ,
  - the headlight washer pump in the direction (4) .

- Remove the headlight washer pump - headlight washer pump connector assembly from the screen washer reservoir.

## REFITTING

## I - REFITTING OPERATION FOR PART CONCERNED

- Refit the headlight washer pump - headlight washer pump connector assembly to the screen washer reservoir.
- Clip on the headlight washer pump connector.
- Connect:
  - the headlight washer pump connector,
  - the headlight washer hose.
- Clip on the clip.

## II - FINAL OPERATION.

- Fit the front wheel arch liner (see **Front wheel arch liner: Removal - Refitting**) (55A, Exterior protection).

# WIPING - WASHING

## Headlight washer jet: Removal - Refitting

# 85A

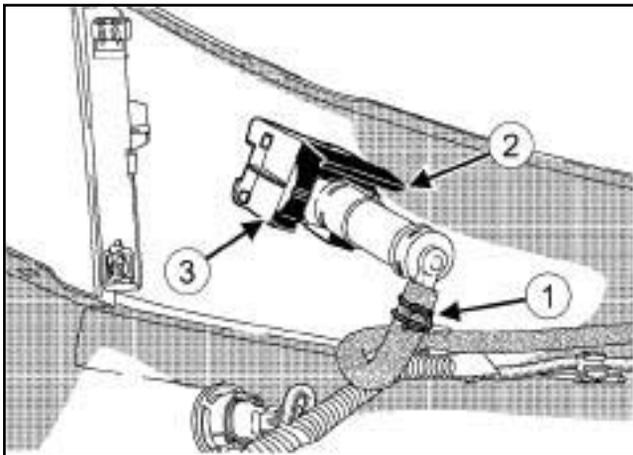
### HEADLIGHT WASHERS WITH BLADE

#### REMOVAL

##### I - REMOVAL PREPARATION OPERATION

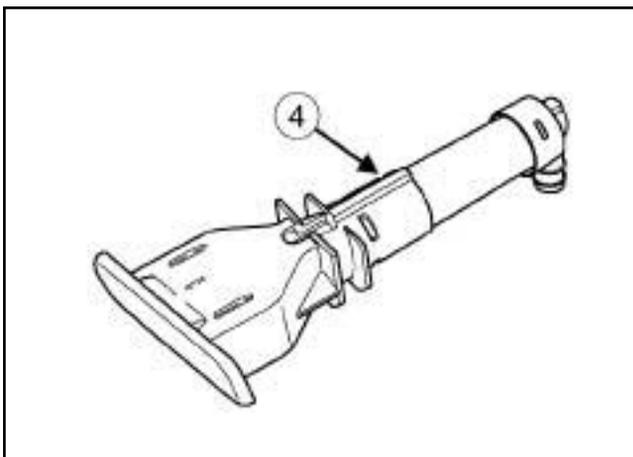
- Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (02A, Lifting equipment).
- Remove the front bumper (see **Front bumper: Removal - Refitting**) (55A, Exterior protection).

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



130841

- Remove the clip (1) from the supply pipe.
- Disconnect the supply pipe.
- Unclip the headlight washer jet clip (2) .
- Remove the headlight washer jet support (3) .



130842

- Remove the headlight washer jet (4) from the front bumper.

#### REFITTING

##### I - REFITTING OPERATION FOR PART CONCERNED

- Fit the headlight washer jet to the front bumper.
- Refit:
  - the headlight washer jet support,
  - the headlight washer jet clip.
- Connect the supply pipe.
- Refit the supply pipe mounting clip.

##### II - FINAL OPERATION.

- Refit the front bumper (see **Front bumper: Removal - Refitting**) (55A, Exterior protection).

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# WIPING - WASHING

## Front screen washer jet: Removal - Refitting

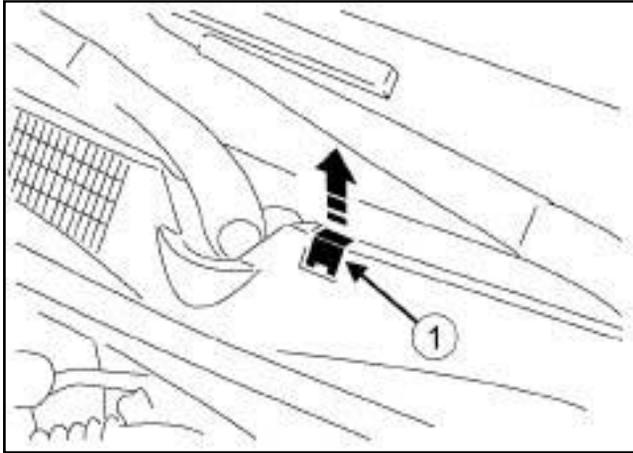
# 85A

### Special tooling required

Car. 1363      Set of trim removal levers.

## REMOVAL

### OPERATION FOR REMOVAL OF PART CONCERNED



130433

- Unclip the windscreen washer jet (1) using the (Car. 1363).
- Disconnect the pipe from the windscreen washer jet.
- Attach the pipe for the windscreen washer jet using adhesive tape so that the windscreen washer jet pipe does not fall into the scuttle panel half-grille.

## REFITTING

### REFITTING OPERATION FOR PART CONCERNED

- Connect the pipe for the windscreen washer jet.
- Clip on the windscreen washer jet.

## Rear screen washer jet: Removal - Refitting

### Special tooling required

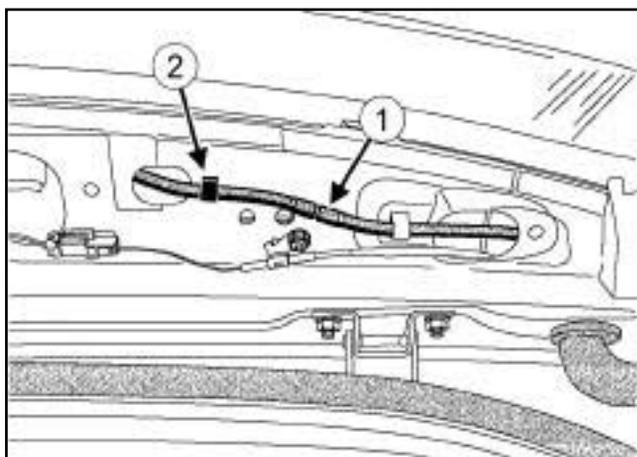
Car. 1363 Set of trim removal levers.

### REMOVAL

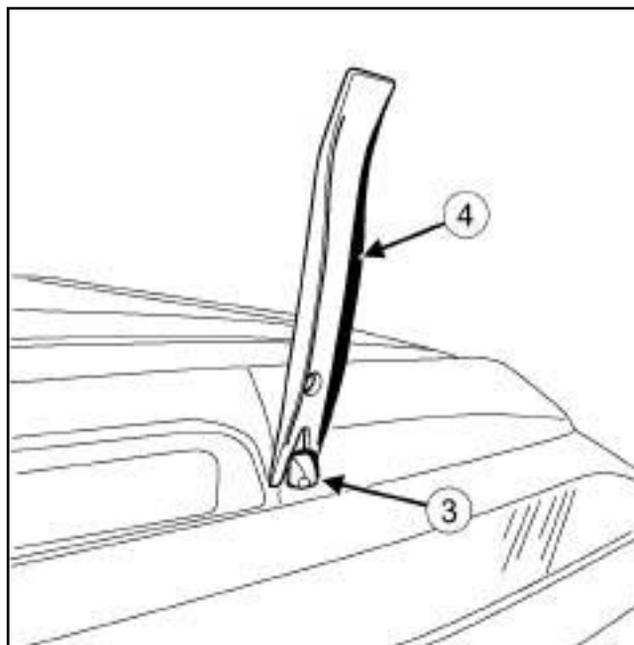
#### I - REMOVAL PREPARATION OPERATION

- Remove the upper tailgate trim (see **Tailgate trim: Removal - Refitting**) (73A, Non-side opening elements trim).

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



- Disconnect:
  - the rear screen washer jet pipe at (1) ,
  - the clip (2) .



- Remove the rear screen washer jet (3) using the tool (Car. 1363) (4) .

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

- Refit the rear screen washer jet.
- Connect the pipe for the rear screen washer jet.
- Refit the clip.

#### II - FINAL OPERATION.

- Refit the upper tailgate trim (see **Tailgate trim: Removal - Refitting**) (73A, Non-side opening elements trim).

## Windscreen washer reservoir: Removal - Refitting

### Tightening torques

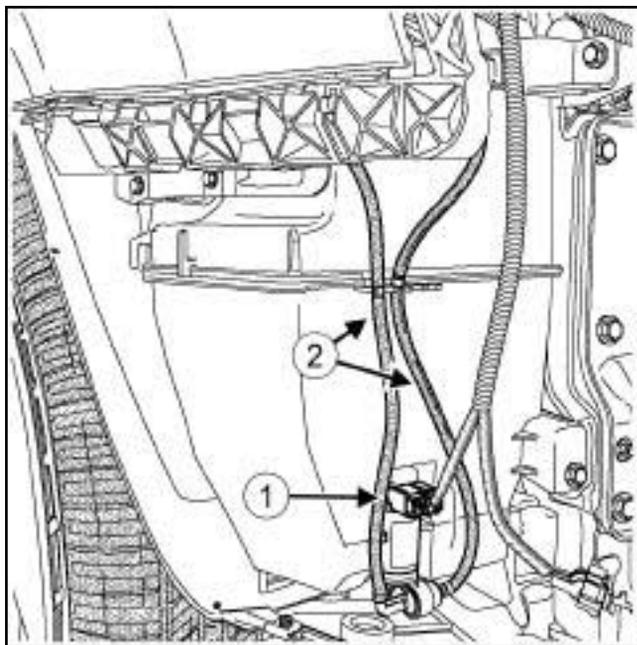
windscreen washer bottle bolts	10 N.m
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## REMOVAL

### I - REMOVAL PREPARATION OPERATION

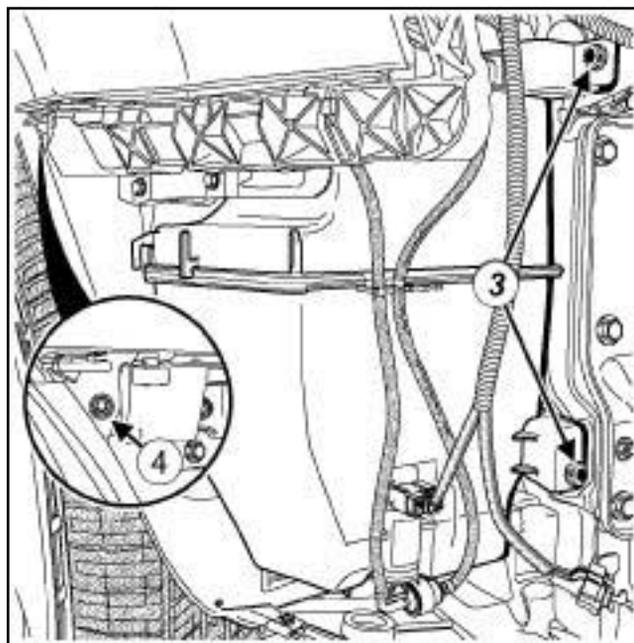
- Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (02A, Lifting equipment).
- Remove the front bumper (see **Front bumper: Removal - Refitting**) (55A, Exterior protection).

### II - OPERATION FOR REMOVAL OF PART CONCERNED



131366

- Place a container underneath the windscreen washer bottle.
- Remove the windscreen washer bottle neck (see **85A, Wiping - Washing, Windscreen washer reservoir neck: Removal - Refitting, page 85A-26**).
- Disconnect:
  - the connector (1) from the windscreen washer pump,
  - the supply pipes (2).



131367

- Remove:
  - the front bolts (3) of the windscreen washer bottle,
  - the rear bolt (4) of the windscreen washer bottle,
  - the windscreen washer bottle,
  - the windscreen washer pump from the windscreen washer bottle.

### Note:

Mark the routing of the supply pipes and wiring.

## REFITTING

### I - REFITTING OPERATION FOR PART CONCERNED

- Refit:
  - the windscreen washer pump to the windscreen washer bottle,
  - the windscreen washer bottle,
  - the front bolts of the windscreen washer bottle,
  - the rear bolt of the windscreen washer bottle.
- Torque tighten the **windscreen washer bottle bolts (10 N.m)**.
- Connect:
  - the supply pipes,
  - the windscreen washer pump connector.

## Windscreen washer reservoir: Removal - Refitting

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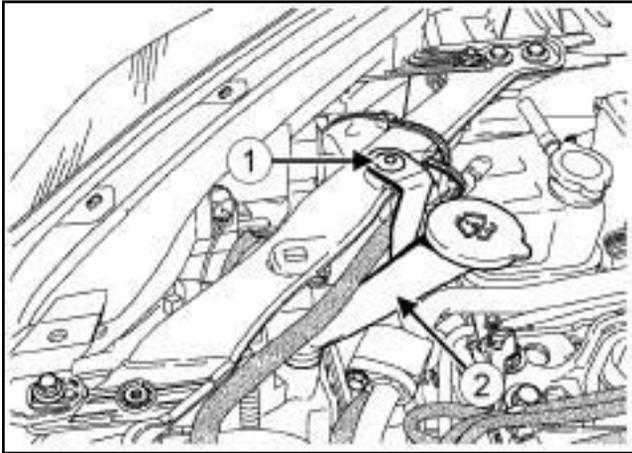
- Refit the windscreen washer bottle neck (see **85A, Wiping - Washing, Windscreen washer reservoir neck: Removal - Refitting**, page **85A-26**) .

### II - FINAL OPERATION.

- Refit the front bumper (see **Front bumper: Removal - Refitting**) (55A, Exterior protection).
- Fill the windscreen washer bottle.

### REMOVAL

#### OPERATION FOR REMOVAL OF PART CONCERNED



130843

- Unfasten clip (1) .
- Separate the neck (2) from the windscreen washer bottle.

### REFITTING

#### REFITTING OPERATION FOR PART CONCERNED

- Refit the windscreen washer bottle neck.
- Engage clip.

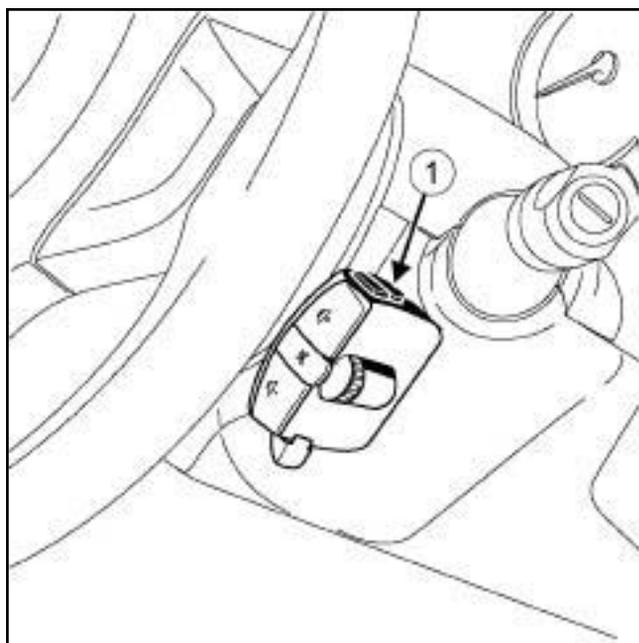
## Radio: List and location of components

### I - LIST OF COMPONENTS

No.	Description
(1)	Radio control satellite
(2.2)	Radio aerial
(3)	Radio
(4)	Radio unit
(5)	Display
(6)	Tweeter
(7)	Front central speaker
(8)	Speaker in the front door
(9)	Speaker in the rear door
(10)	Subwoofer
(11)	Tuner-amplifier

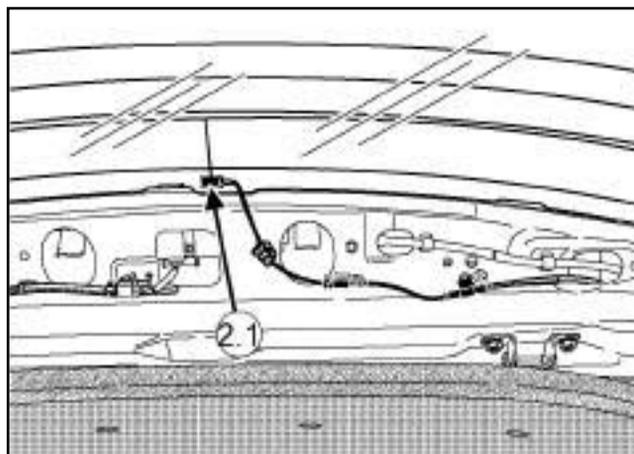
### II - LOCATION OF COMPONENTS

#### 1 - Radio control satellite



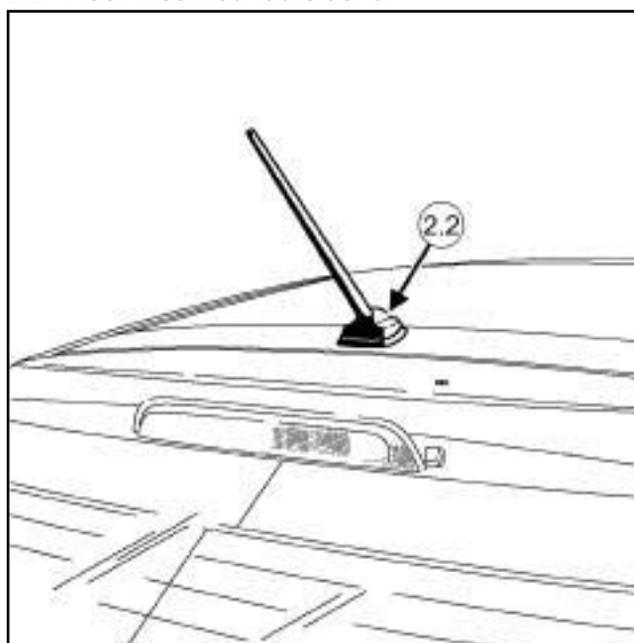
130727

#### 2.1 - Window mounted radio aerial



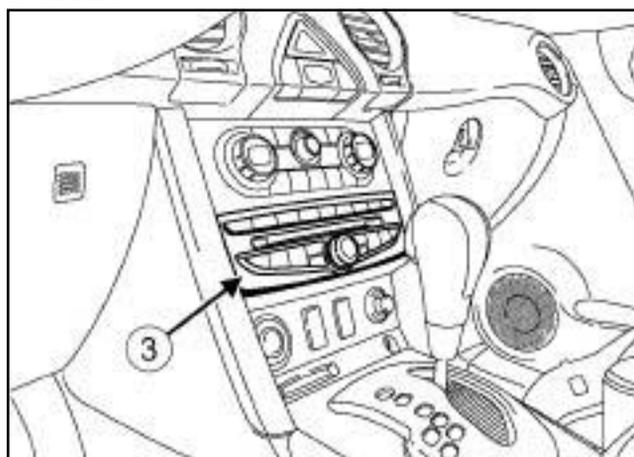
135217

#### 2.2 - Roof mounted radio aerial



130728

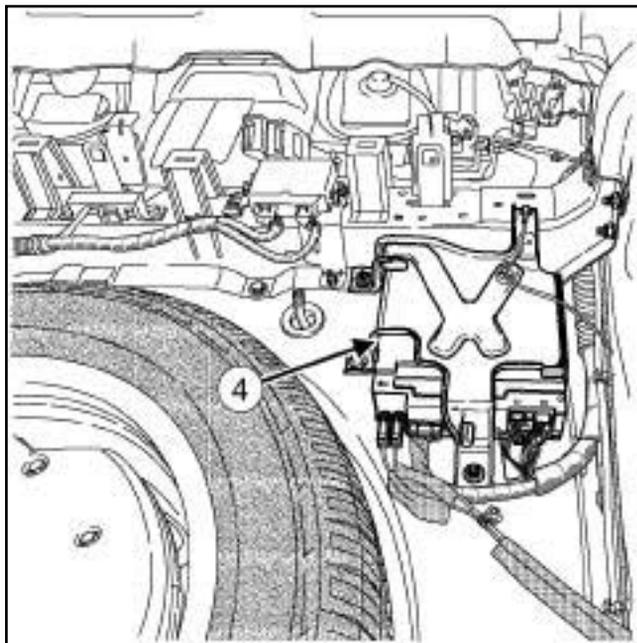
#### 3 - Radio



130729

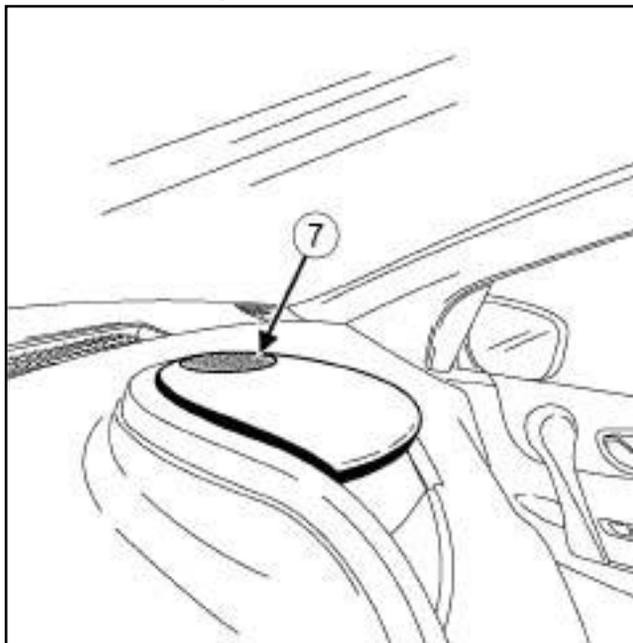
## Radio: List and location of components

4 - Radio unit



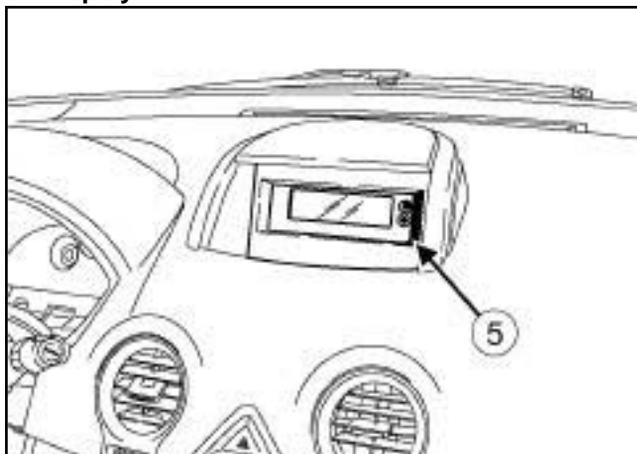
130730

7- Front central speaker



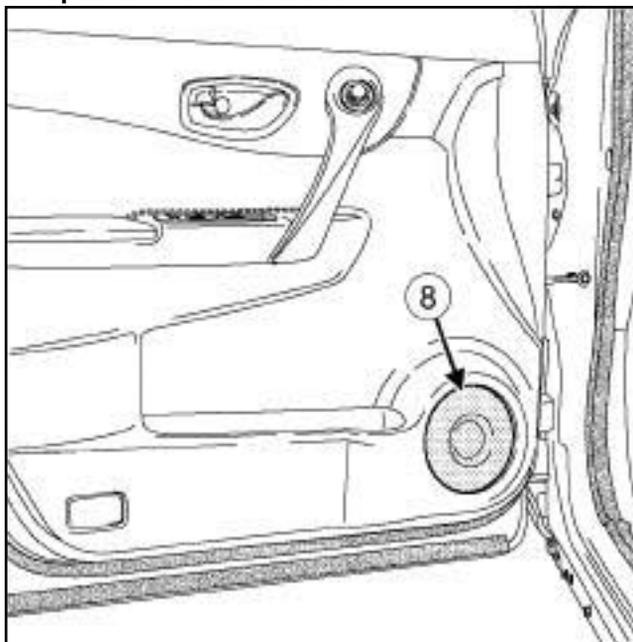
130733

5 - Display



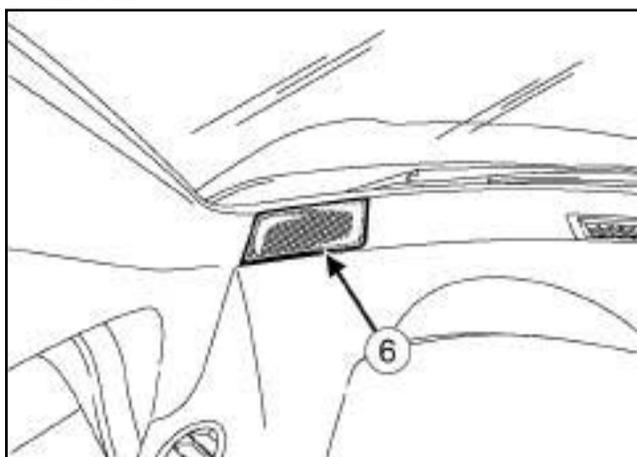
130731

8 - Speaker in the front door



130734

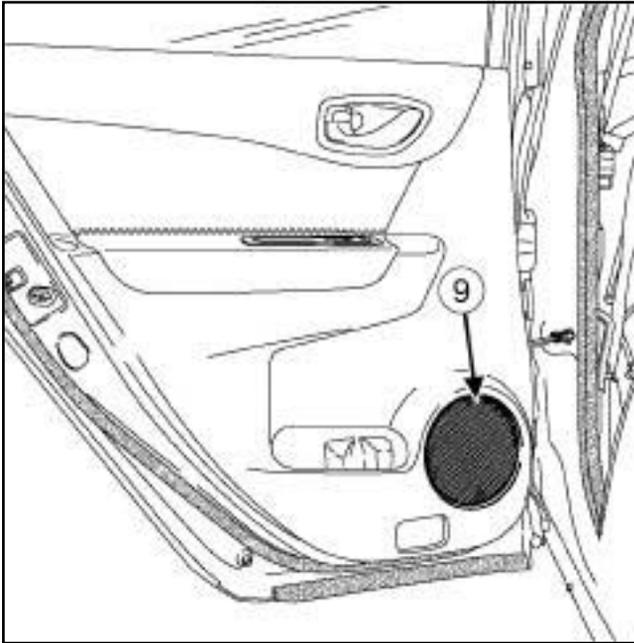
6 - Tweeter



130747

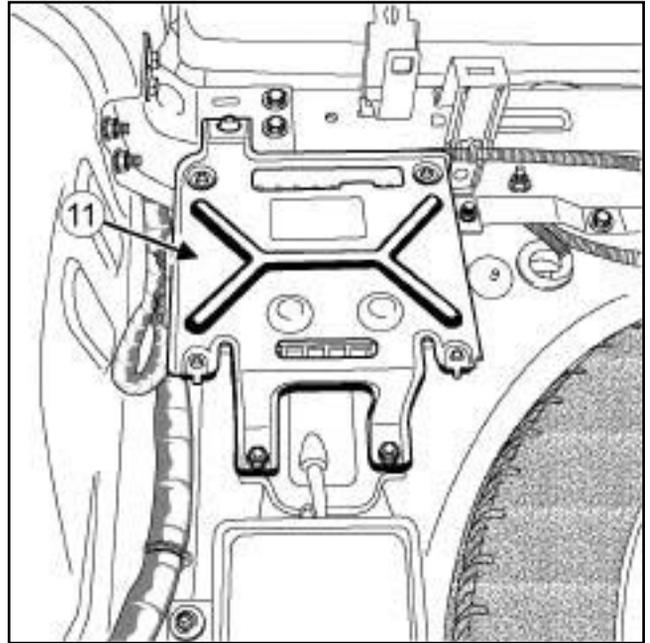
## Radio: List and location of components

9 - Speaker in the rear door



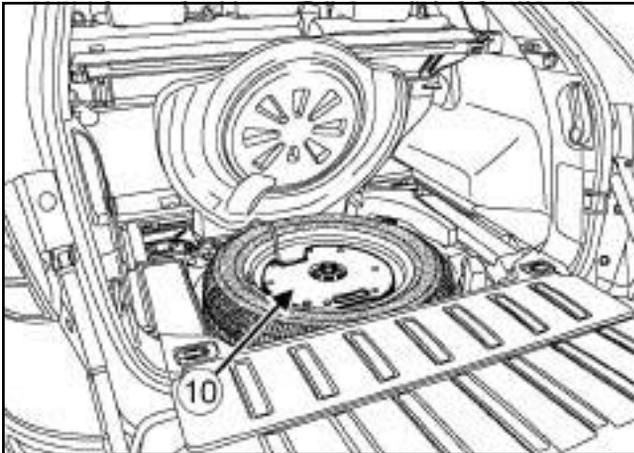
130735

11 - Tuner - amplifier



130737

10 - Subwoofer



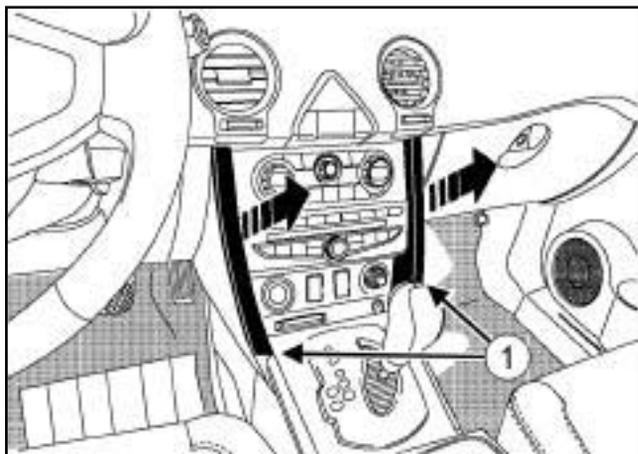
130736

### Special tooling required

**Ms. 1373** Tool for removing radios or chronotachographs.

## REMOVAL

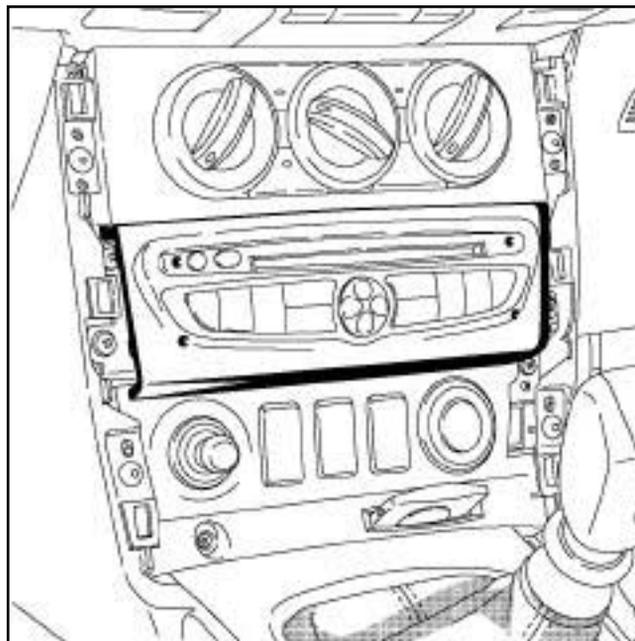
### I - REMOVAL PREPARATION OPERATION



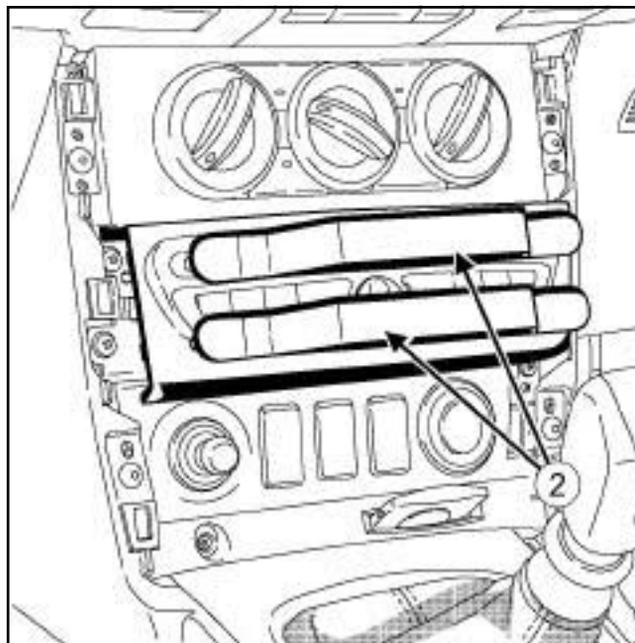
130758

- Remove the centre front panel side trim (1) .

### II - OPERATION FOR REMOVAL OF PART CONCERNED



132550



132551

- Remove the radio using the tool (**Ms. 1373**) (2) .
- Disconnect the connectors.

## REFITTING

### I - REFITTING OPERATION FOR PART CONCERNED

- Connect the connectors.
- Refit the radio.

# RADIO

## Radio: Removal - Refitting

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**86A**

### II - FINAL OPERATION.

- Refit the centre front panel side trim.

### Special tooling required

Ms. 1373

Tool for removing radios or chronotachographs.

## REMOVAL

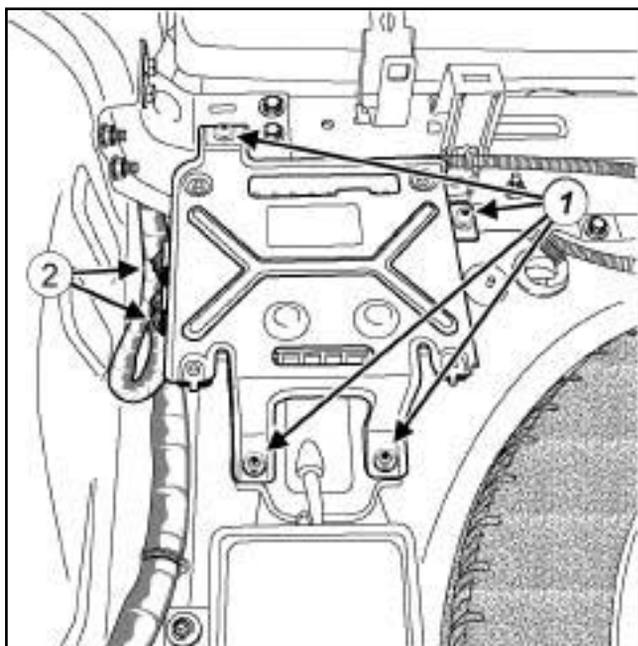
### I - REMOVAL PREPARATION OPERATION

Remove:

- the rear centre luggage compartment floor trim (see **Luggage compartment floor lining: Removal - Refitting**) (71A, Body internal trim),
- the front centre luggage compartment floor trim (see **Luggage compartment floor lining: Removal - Refitting**) (71A, Body internal trim),
- the lower trim of the C-pillar (see **C-pillar lower trim: Removal - Refitting**) (71A, Body internal trim),
- the luggage compartment side trim (see **Luggage compartment floor lining: Removal - Refitting**) (71A, Body internal trim).

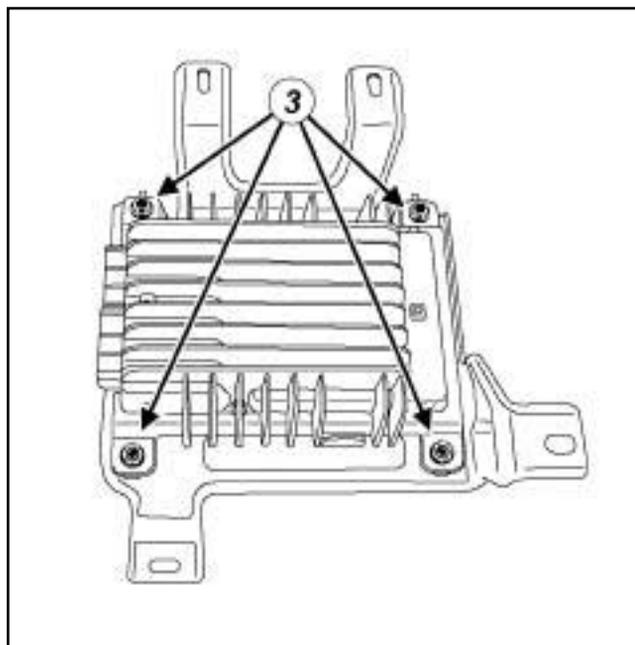
### II - REMOVAL OPERATION FOR THE PART CONCERNED

#### 1 - Tuner-amplifier



130738

- Remove nuts (1) .
- Disconnect the connectors (2) .

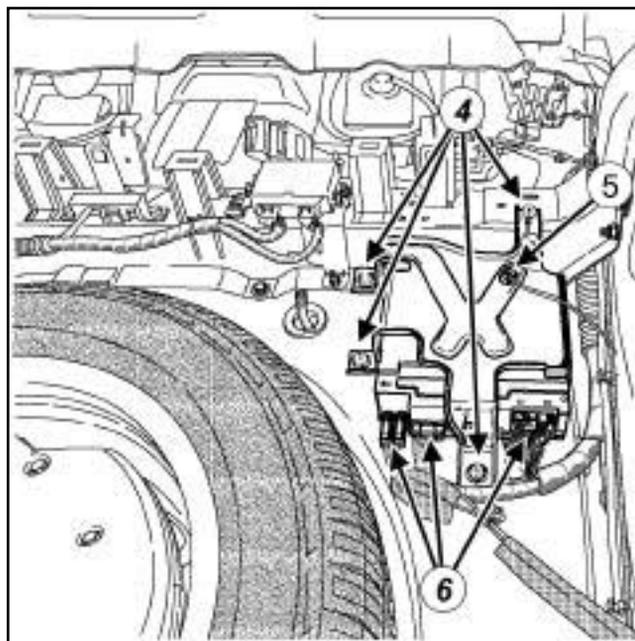


130739

Remove:

- the nuts (3) ,
- the tuner-amplifier from the support.

#### 2 - Radio unit



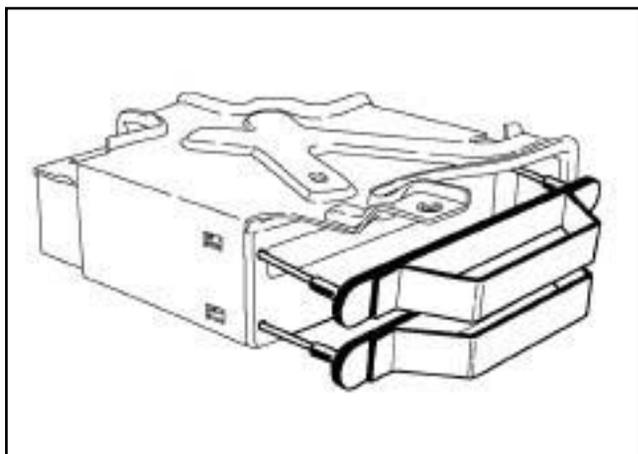
130740

- Remove the bolts (4) .
- Unclip the wiring at (5) .
- Disconnect the connectors (6) .

# RADIO

## Receiver: Removal - Refitting

# 86A



130741

- Remove the radio unit using the tool (**Ms. 1373**).

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

##### 1 - Tuner-amplifier

- Refit:
  - the tuner-amplifier to the support,
  - the nuts.
- Connect the connectors.
- Refit the nuts.

##### 2 - Radio unit

- Refit the radio unit to the support.
- Connect the connectors.
- Attach the wiring.
- Refit the bolts.

#### II - FINAL OPERATION.

- Refit:
  - the luggage compartment side trim (see **Luggage compartment floor lining: Removal - Refitting**) (71A, Body internal trim),
  - the lower trim of the C-pillar (see **C-pillar lower trim: Removal - Refitting**) (71A, Body internal trim),
  - the front centre luggage compartment floor trim (see **Luggage compartment floor lining: Removal - Refitting**) (71A, Body internal trim),

- the rear centre luggage compartment floor trim (see **Luggage compartment floor lining: Removal - Refitting**) (71A, Body internal trim).

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

##### 1 - Radio aerial incorporated in the window glass

Remove:

- the upper tailgate trim (see **Tailgate trim: Removal - Refitting**) (73A, Non-side opening elements trim),
- the lower trim of the C-pillar (see **C-pillar lower trim: Removal - Refitting**) (71A, Body internal trim),
- the upper trim of the C-pillar (see **C-pillar upper trim: Removal - Refitting**) (71A, Body internal trim).

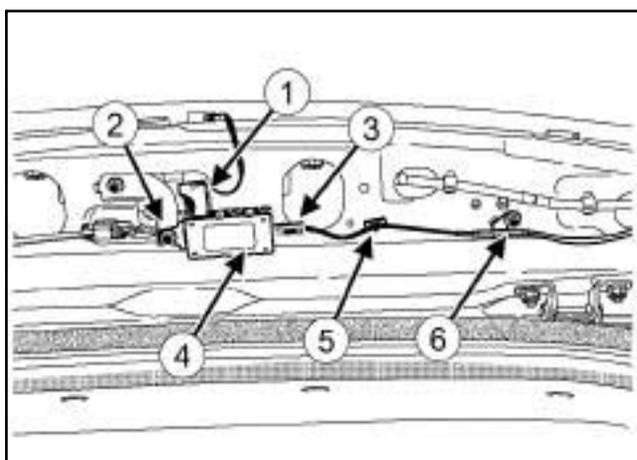
##### 2 - Roof radio aerial

Remove:

- the lower trim of the C-pillar (see **C-pillar lower trim: Removal - Refitting**) (71A, Body internal trim),
- the upper trim of the C-pillar (see **C-pillar upper trim: Removal - Refitting**) (71A, Body internal trim),
- the headlining (see **Headlining: Removal - Refitting**) (71A, Body internal trim).

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

##### 1 - Radio aerial incorporated in the window glass



130742

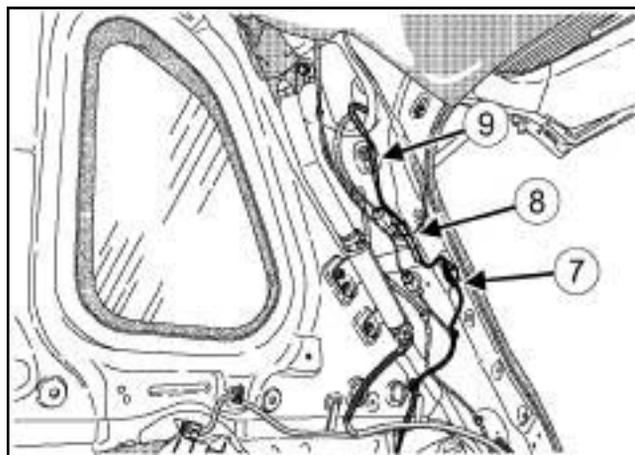
- Disconnect the connector (1) .
- Remove the bolt (2) .
- Disconnect the connector (3) .

Remove:

- the amplifier mounting clip using a flat-blade screwdriver,
- the amplifier (4) .

Unfasten the clip (5) .

Remove the bolt (6) .

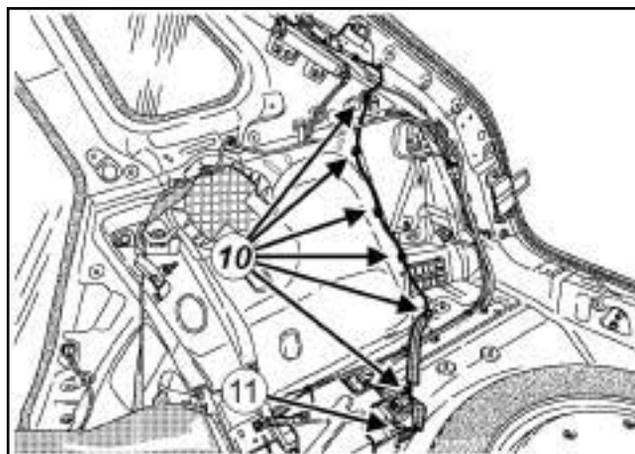


130743

Disconnect the connector (7) .

Unfasten clip (8) .

Remove the bolt (9) .



130744

Unclip the clips (10) .

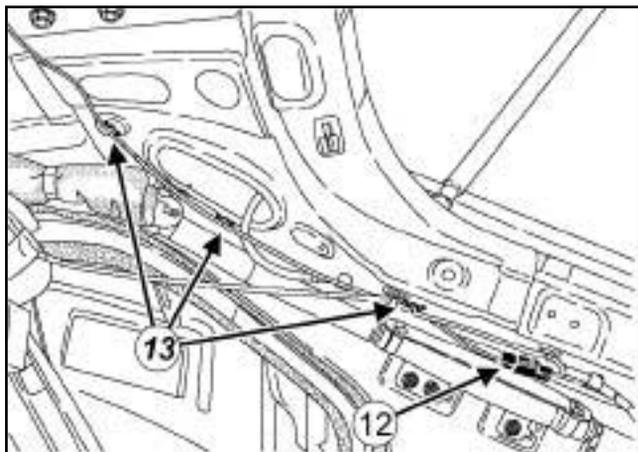
Disconnect the connector (11) .

Remove the radio aerial wiring.

**Note:**

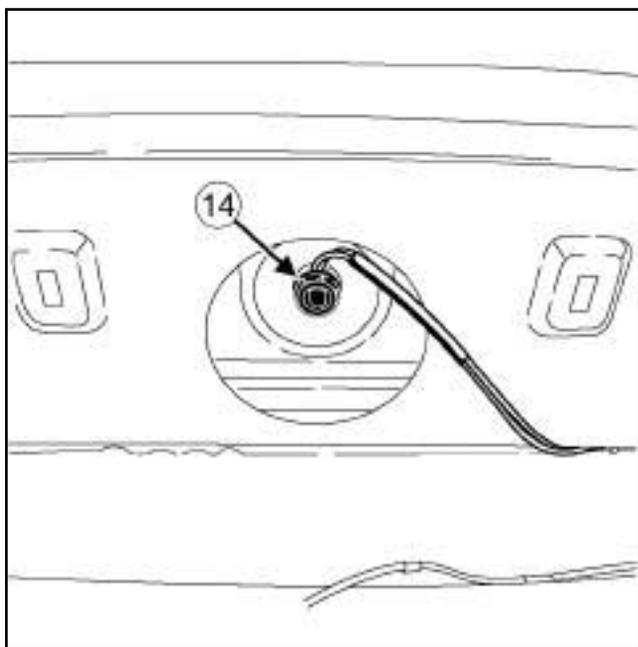
When replacing the printed radio aerial on the rear screen, replace the rear screen glass (see **Rear screen: Removal - Refitting**) (54A, Windows).

### 2 - Roof radio aerial



130745

- Disconnect the connector (12) .
- Unclip the clips (13) .



130746

- Remove:
  - the nut (14) ,
  - the radio aerial.

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

##### 1 - Radio aerial incorporated in the window glass

- Refit:
  - the radio aerial,

- the radio aerial wiring.

- Connect the connectors (11) .
- Attach the clips (10) .
- Refit the bolt (9) .
- Clip on the clip (8) .
- Connect the connector (7) .
- Refit the bolt (6) .
- Engage clip (5) .
- Refit the amplifier (4) .
- Clip on the amplifier mounting clip.
- Connect the connector (3) .
- Refit the bolt (2) .
- Connect the connector (1) .

##### 2 - Roof radio aerial

- Refit:
  - the radio aerial,
  - the radio aerial nut.
- Attach the clips (13) .
- Connect the connector (12) .

#### II - FINAL OPERATION.

##### 1 - Radio aerial incorporated in the window glass

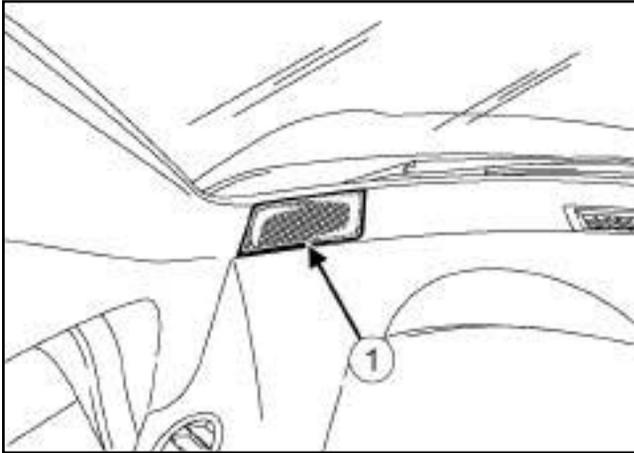
- Refit:
  - the upper trim of the C-pillar (see **C-pillar upper trim: Removal - Refitting**) (71A, Body internal trim),
  - the lower trim of the C-pillar (see **C-pillar lower trim: Removal - Refitting**) (71A, Body internal trim),
  - the upper tailgate trim (see **Tailgate trim: Removal - Refitting**) (73A, Non-side opening elements trim).

##### 2 - Roof radio aerial

- Refit:
  - the headlining (see **Headlining: Removal - Refitting**) (71A, Body internal trim),
  - the upper trim of the C-pillar (see **C-pillar upper trim: Removal - Refitting**) (71A, Body internal trim),
  - the rear pillar lower trim (see **C-pillar lower trim: Removal - Refitting**) (71A, Body internal trim).

## REMOVAL

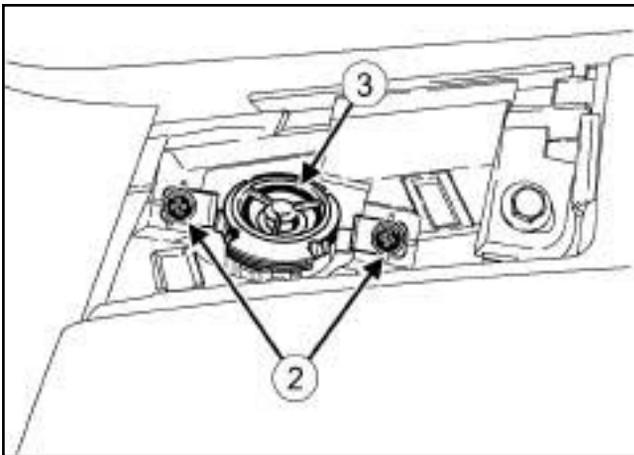
### I - REMOVAL PREPARATION OPERATION



130747

- Unclip the tweeter grille (1) using a flat-blade screwdriver.

### II - OPERATION FOR REMOVAL OF PART CONCERNED



130748

- Remove:
  - the bolts (2) ,
  - the tweeter (3) .
- Disconnect the tweeter speaker connector.

## REFITTING

### I - REFITTING OPERATION FOR PART CONCERNED

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

- the tweeter bolts.

### II - FINAL OPERATION.

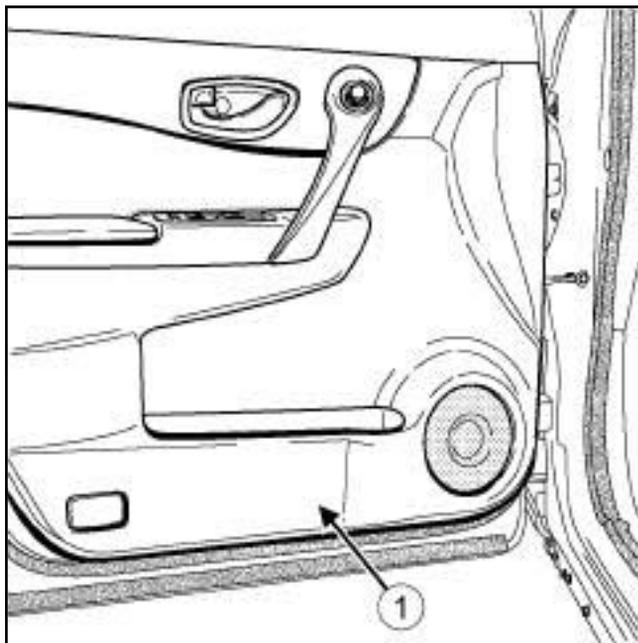
- Refit the tweeter grille.

## Front speakers: Removal - Refitting

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

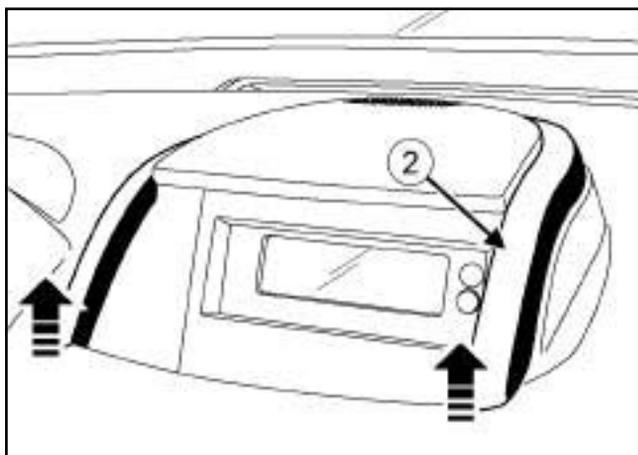
##### 1 - Front door speaker



130749

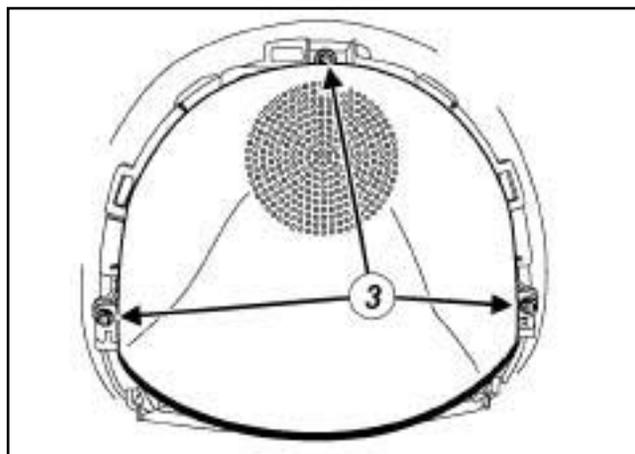
- ❑ Remove the front side door trim (1) (see **Front side door trim: Removal - Refitting**) (72A, Side opening elements trim).

##### 2 - Front centre speaker



130750

- ❑ Remove the front centre speaker trim (2) .

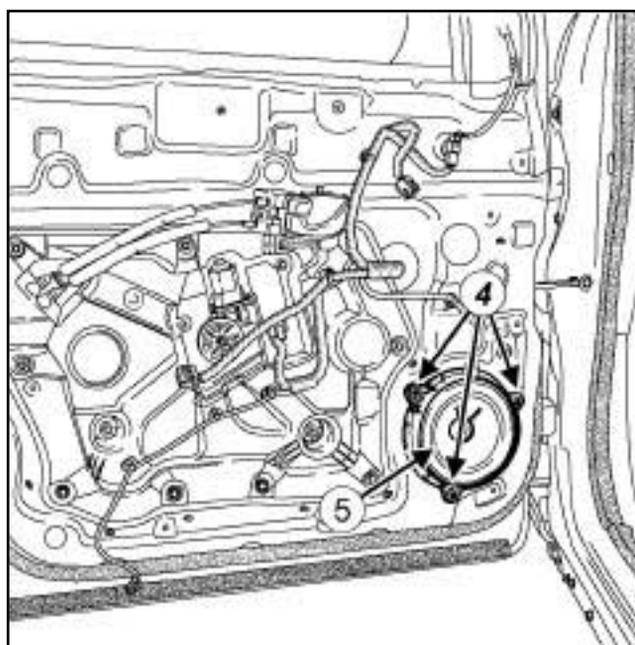


130751

- ❑ Remove:
  - the front centre speaker cover bolts (3) ,
  - the front centre speaker cover.

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

##### 1 - Front door speaker

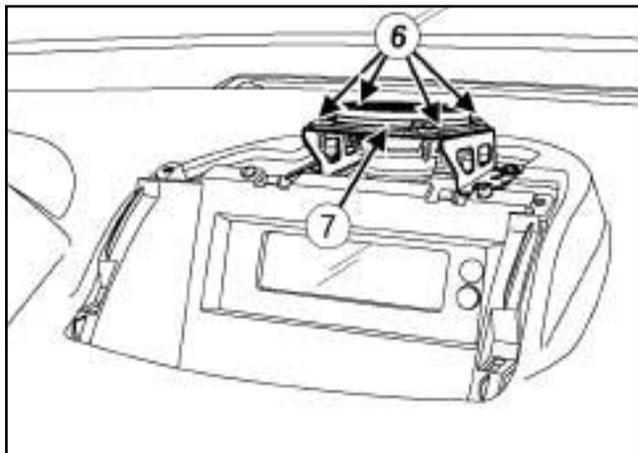


130752

- ❑ Remove:
  - the bolts (4) ,
  - the front speaker (5) .
- ❑ Disconnect the connector.

## Front speakers: Removal - Refitting

## 2 - Front centre speaker



130753

 Remove:

- the bolts (6) ,
- the front centre speaker (7) .

 Disconnect the connector.

## REFITTING

## I - REFITTING OPERATION FOR PART CONCERNED

## 1 - Front door speaker

 Connect the front door speaker connector.

 Refit:

- the front door speaker,
- the front door speaker bolts.

## 2 - Front centre speaker

 Connect the front centre speaker connector.

 Refit:

- the front centre speaker,
- the front centre speaker bolts.

## II - FINAL OPERATION.

## 1 - Front door speaker

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

## 2 - Front centre speaker

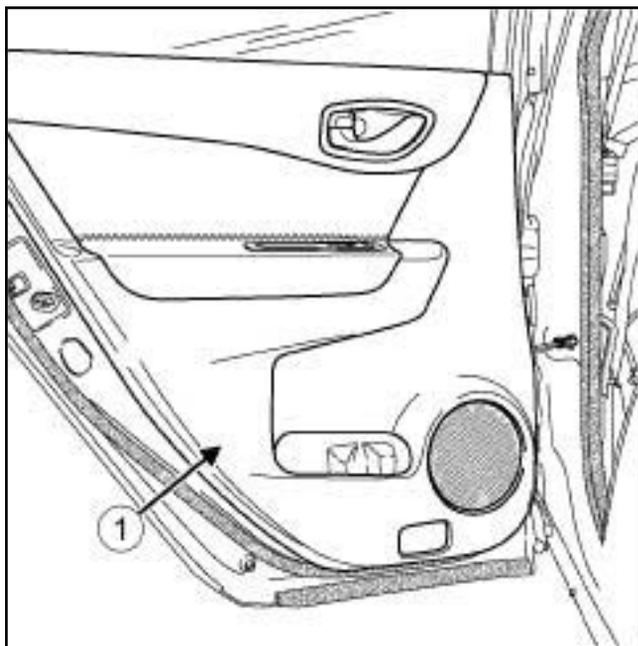
 Refit:

- the front centre speaker cover,
- the front centre speaker cover bolts,
- the front centre speaker trim.

## Rear speakers: Removal - Refitting

## REMOVAL

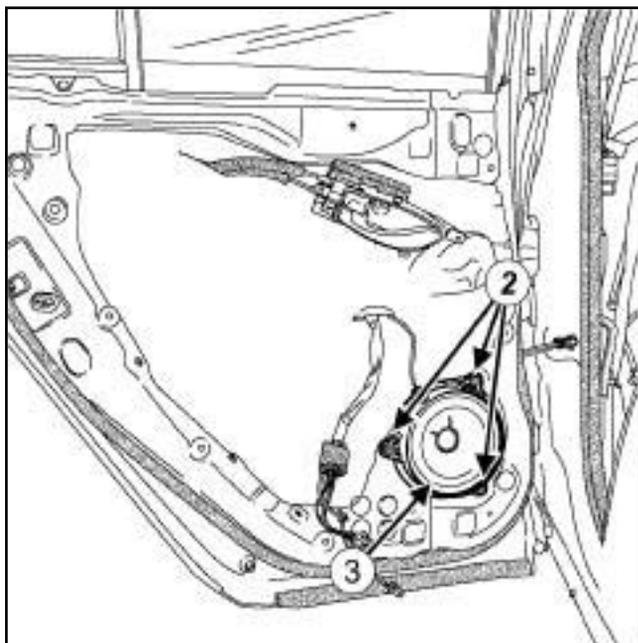
## I - REMOVAL PREPARATION OPERATION



130754

- Remove the rear side door trim (1) (see **Rear side door trim: Removal - Refitting**) (72A, Side opening element trim).

## II - OPERATION FOR REMOVAL OF PART CONCERNED



130756

- Remove:
  - the bolts (2) ,
  - the rear speaker (3) .

- Disconnect the rear speaker connector.

## REFITTING

## I - REFITTING OPERATION FOR PART CONCERNED

- Connect the rear speaker connector.
- Refit:
  - the rear speaker (3) ,
  - the rear speaker bolts (2) .

## II - FINAL OPERATION

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

# RADIO

## CD changer: Removal - Refitting

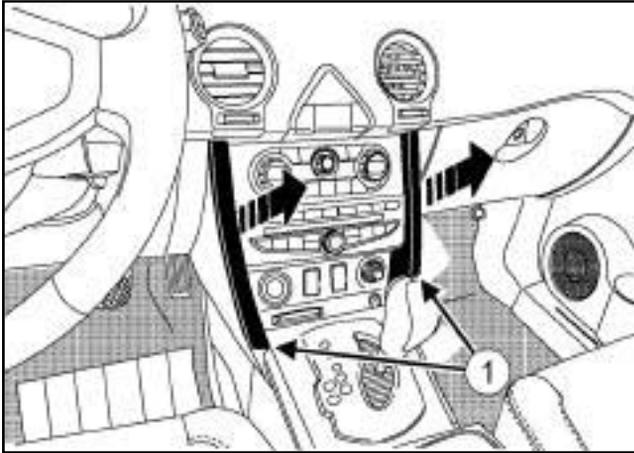
# 86A

### Special tooling required

<b>Ms. 1820</b>	Tool for removing Clarion and VDO radios
-----------------	--

## REMOVAL

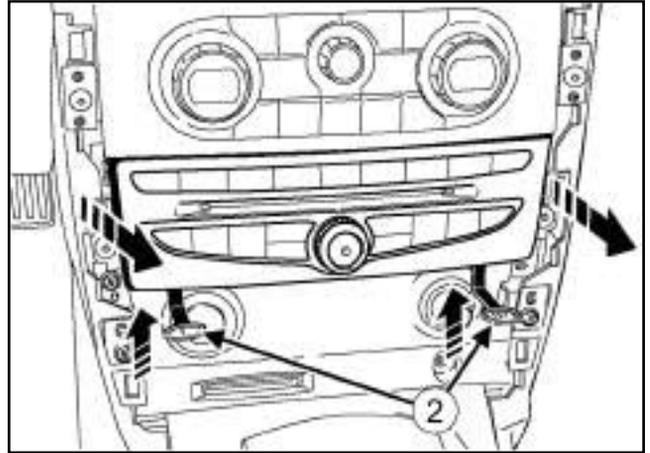
### I - REMOVAL PREPARATION OPERATION



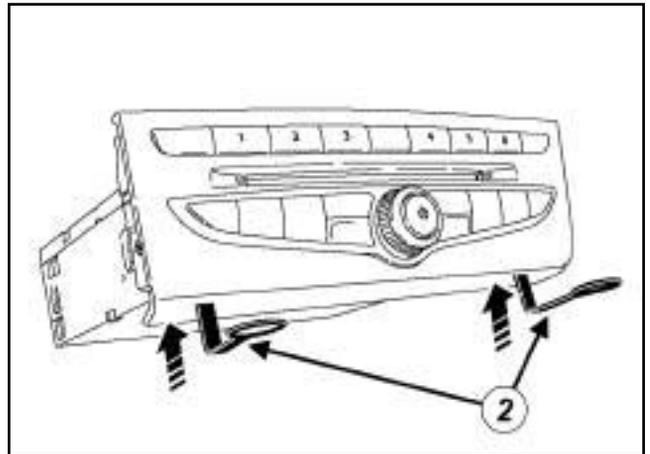
130758

- ❑ Remove the centre front panel side trim (1) .

### II - OPERATION FOR REMOVAL OF PART CONCERNED



130759



130760

- ❑ Remove the radio using the tool (**Ms. 1820**) (2) .
- ❑ Disconnect the connectors.

## REFITTING

### I - REFITTING OPERATION FOR PART CONCERNED

- ❑ Connect the connectors.
- ❑ Refit the radio.

### II - FINAL OPERATION

- ❑ Refit the centre front panel side trim.

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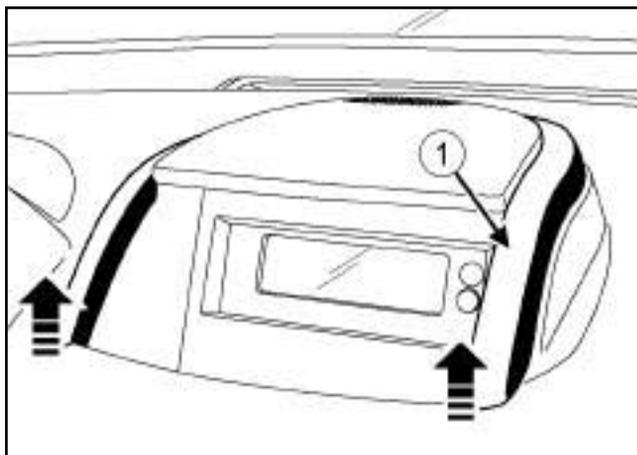
# RADIO

## Display: Removal - Refitting

# 86A

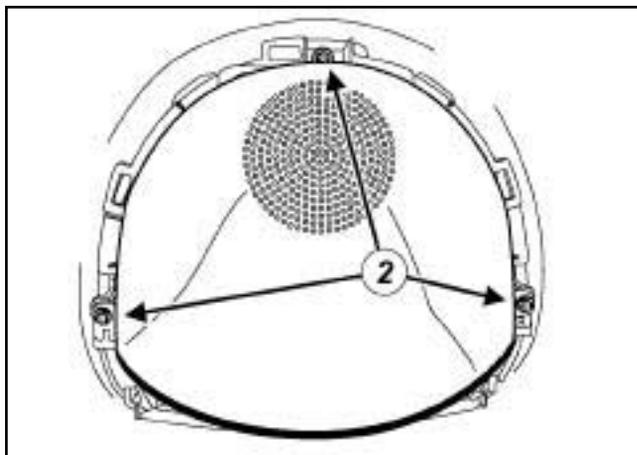
### REMOVAL

#### I - REMOVAL PREPARATION OPERATION



130761

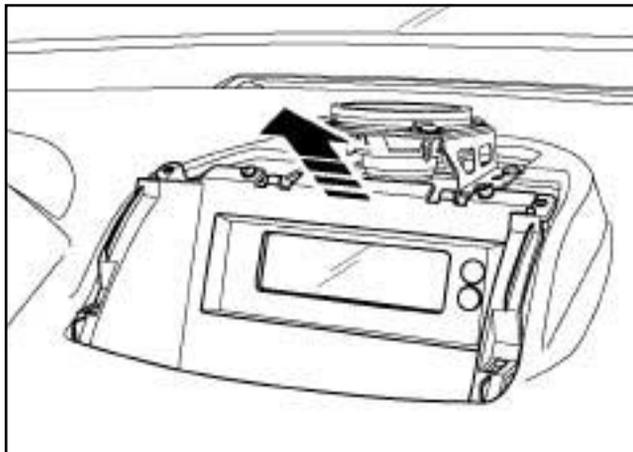
- ❑ Remove the front centre speaker trim (1) .



130762

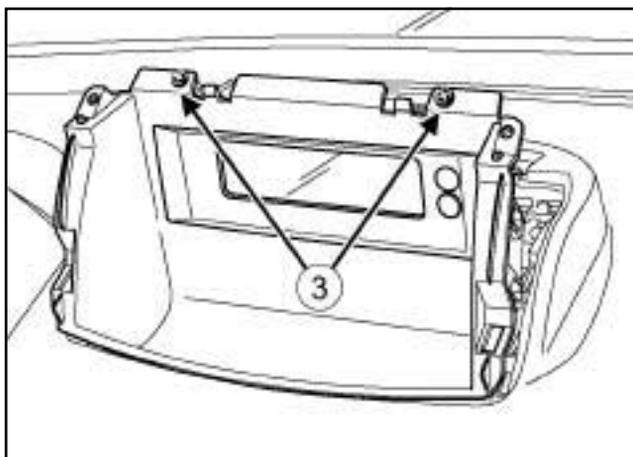
- ❑ Remove:
  - the front centre speaker cover bolts (2) ,
  - the front centre speaker cover.

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



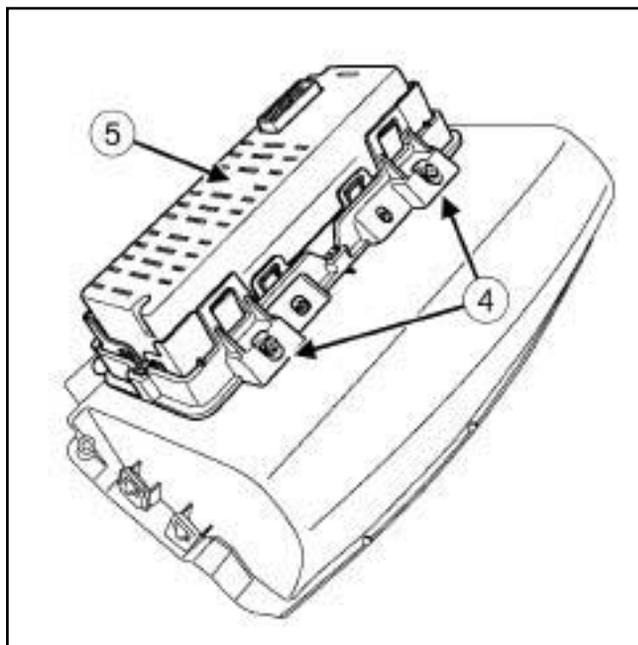
130763

- ❑ Unclip the « display - display protector » assembly.
- ❑ Disconnect the display connector.



130764

- ❑ Remove the upper bolts (3) .



130765

Remove:

- the lower bolts (4) ,
- the display (5) from the display protector.

**REFITTING**

**I - REFITTING OPERATION FOR PART CONCERNED**

Refit:

- the display on the display protector,
- the lower bolts,
- the upper bolts.

Connect the connector.

Clip on the « display - display protector » assembly.

**II - FINAL OPERATION.**

Refit:

- the front centre speaker cover,
- the front centre speaker cover bolts,
- the front centre speaker trim.

## Radio control satellite: Removal - Refitting

## REMOVAL

## I - REMOVAL PREPARATION OPERATION

**IMPORTANT**

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

**IMPORTANT**

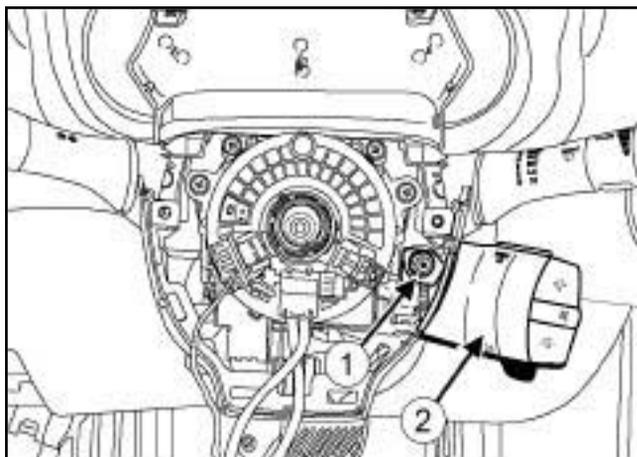
To prevent the pyrotechnic components from being permanently deactivated or triggered (airbags or pretensioners), wait for at least **3 min** after disconnecting the battery.

- Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**).

- Remove:

- the driver's front airbag (see **88C, Air bag and Pretensioners, Driver's frontal airbag: Removal - Refitting**, page **88C-10**),
- the steering wheel (see **Steering wheel: Removal - Refitting**) (36A, Steering assembly),
- the half cowlings (see **Steering column: Removal - Refitting**) (36A, Steering assembly).

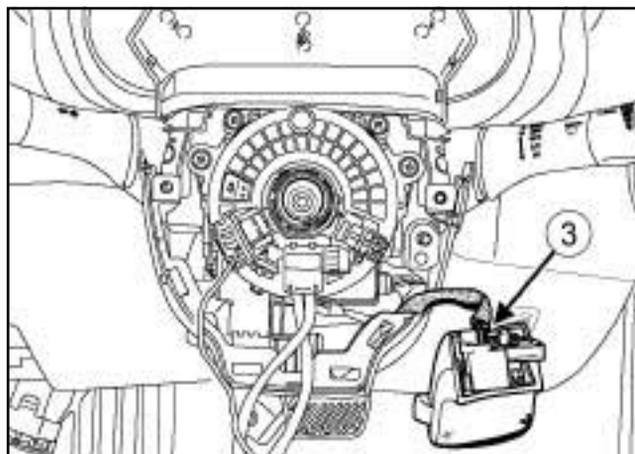
## II - OPERATION FOR REMOVAL OF PART CONCERNED



130766

- Remove:

- the bolts (1),
- the radio control satellite (2).



130767

- Disconnect the connector (3).

## REFITTING

## I - REFITTING OPERATION FOR PART CONCERNED

- Connect the connector.

- Refit:

- the radio control satellite,
- the bolts.

## II - FINAL OPERATION.

- Refit:

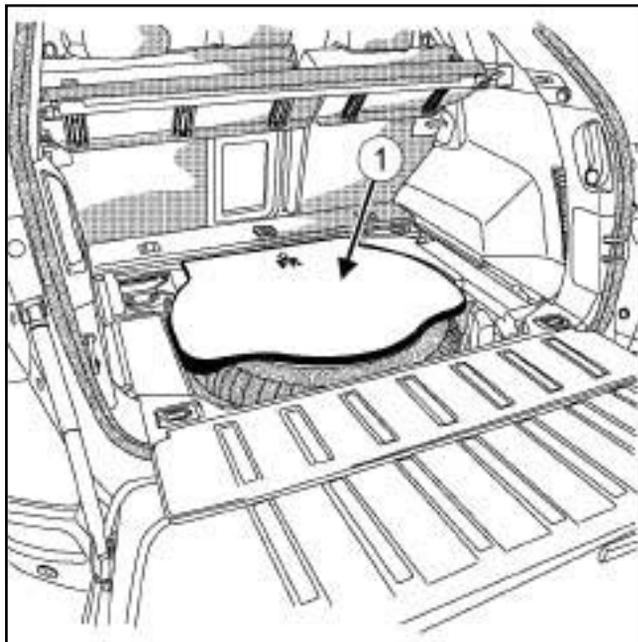
- the half cowlings (see **Steering column: Removal - Refitting**) (36A, Steering assembly),
- the steering wheel (see **Steering wheel: Removal - Refitting**) (36A, Steering assembly),
- the driver's front airbag (see **88C, Air bag and Pretensioners, Driver's frontal airbag: Removal - Refitting**, page **88C-10**).

- Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**).

## REMOVAL

## I - REMOVAL PREPARATION OPERATION

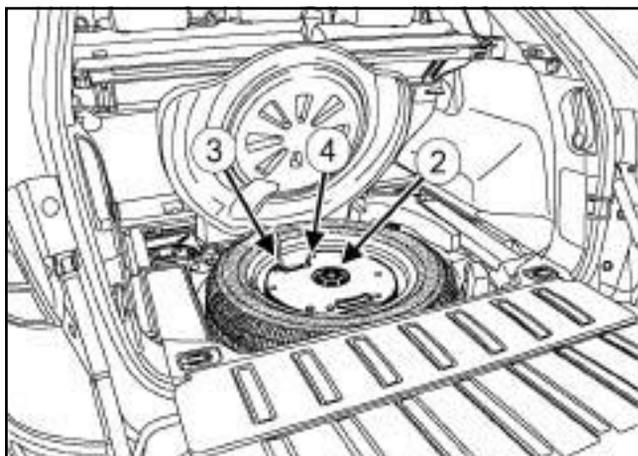
- Remove the rear central luggage compartment floor (see **Luggage compartment floor lining: Removal - Refitting**) (71A, Body internal trim).



130755

- Remove the front luggage compartment floor casing (1).

## II - OPERATION FOR REMOVAL OF PART CONCERNED



130757

- Remove the mounting bracket (2).
- Unclip the wiring clip (3).
- Disconnect the connector (4).
- Remove the subwoofer.

## REFITTING

## I - REFITTING OPERATION FOR PART CONCERNED

- Refit the subwoofer.
- Connect the connector.
- Clip on the wiring clip.
- Refit the mounting bracket.

## II - FINAL OPERATION.

- 

## Note:

The emergency spare wheel and the subwoofer must be mounted correctly.

- Refit:
  - the front luggage compartment floor casing,
  - the rear central luggage compartment floor (see **Luggage compartment floor lining: Removal - Refitting**) (71A, Body internal trim).

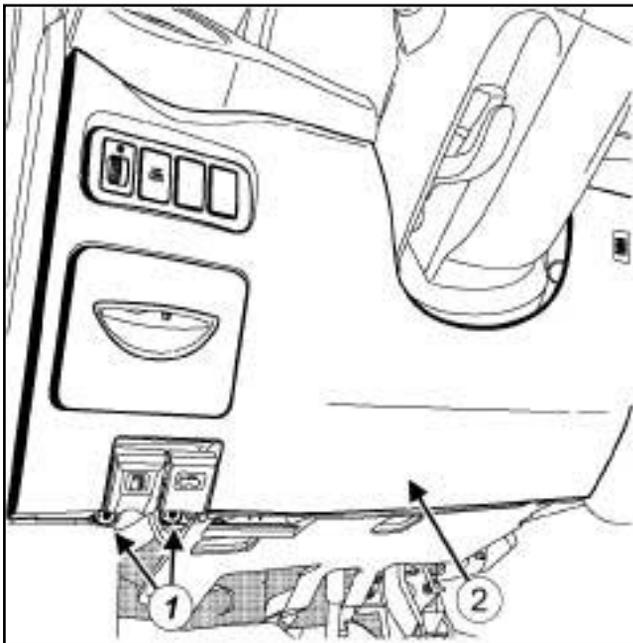
## Equipment required

Diagnostic tool

## REMOVAL

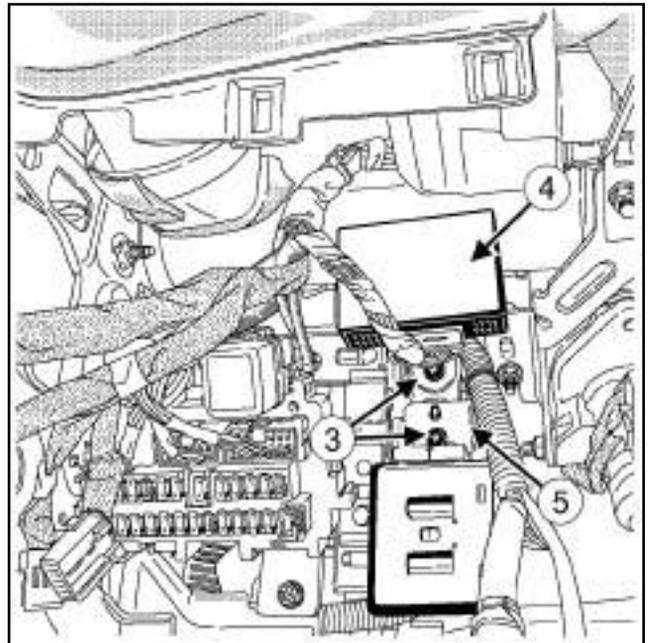
## I - REMOVAL PREPARATION OPERATION

- ❑ Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**).



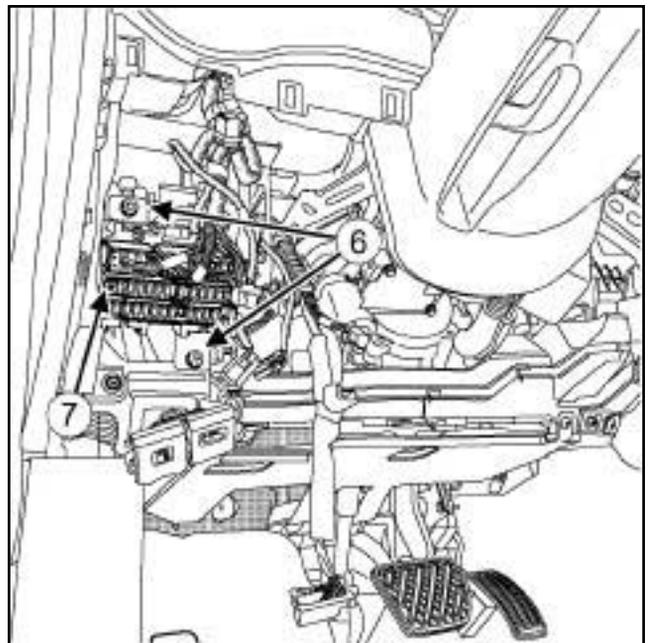
131584

- ❑ Remove:
  - the bolts (1) ,
  - the lower cover (2) .



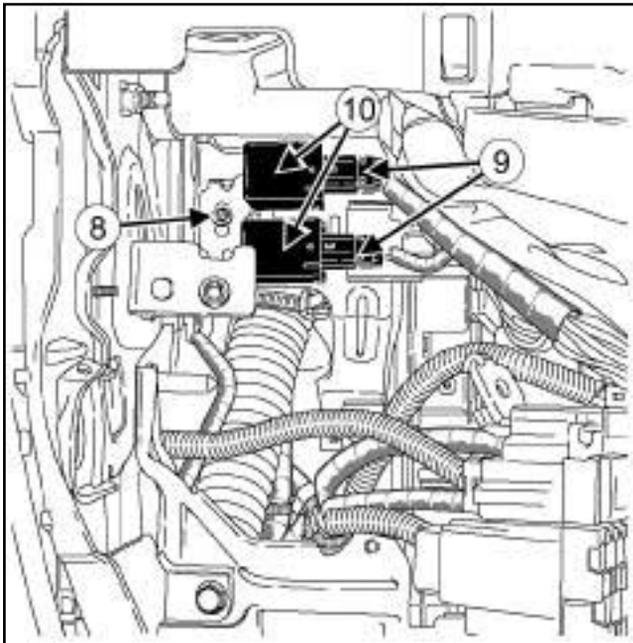
131585

- ❑ Remove:
  - the bolts (3) ,
  - the tyre pressure monitor computer (4) ,
  - the additional cornering lights computer (5) .



131586

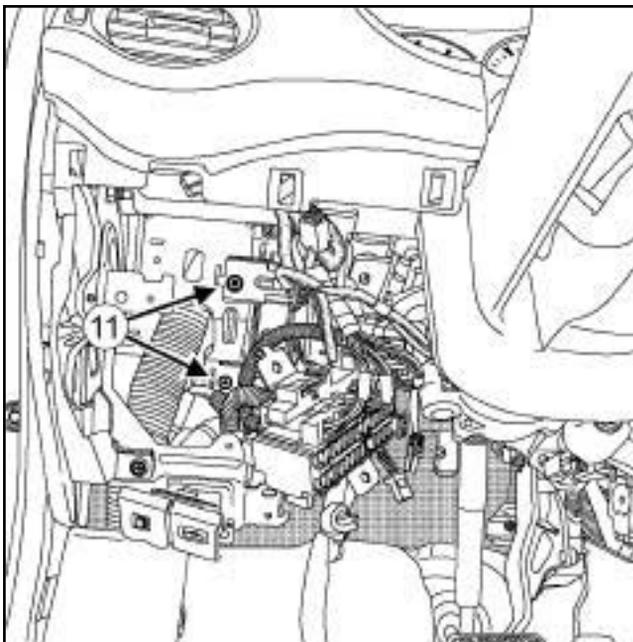
- ❑ Remove the bolts (6) .
- ❑ Move aside the passenger compartment fuse and relay box (7) .



131587

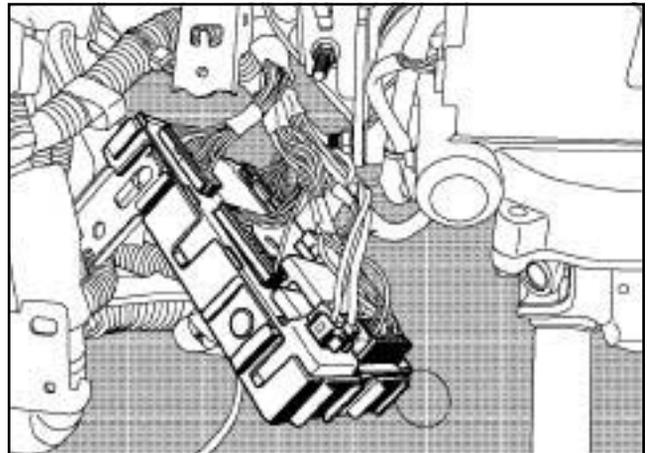
- Remove the bolt (8) .
- Disconnect the connectors (9) .
- Remove the relays (10) .

**II - REMOVAL OF PART CONCERNED**



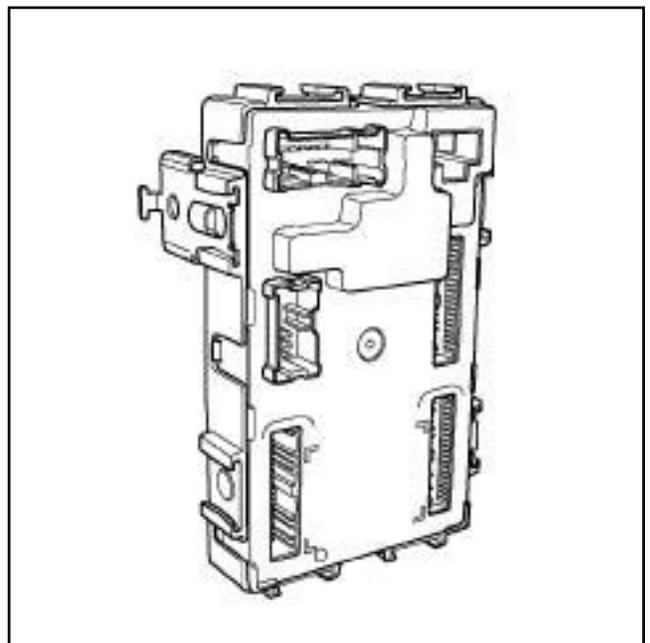
131588

- Remove the bolts (11) .



131589

- Disconnect the connectors.



131590

- Remove the UCH.

**REFITTING**

**I - REFITTING PART CONCERNED**

- Refit the UCH.
- Connect the connectors.
- Refit the bolts (11) .

**II - FINAL OPERATION.**

- Refit the relays.
- Connect the connectors.
- Refit the bolts (8) .

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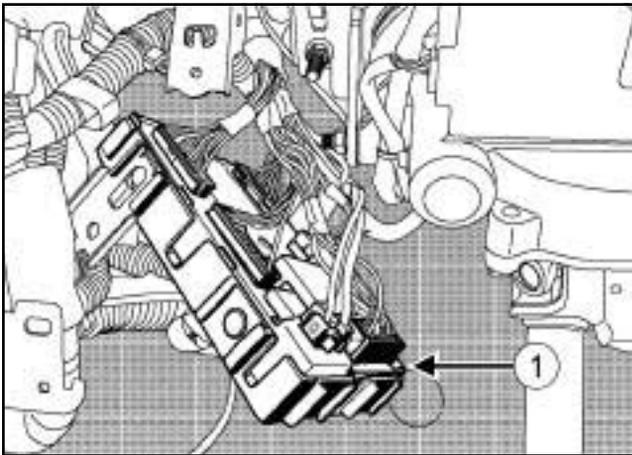
- Fit the passenger compartment fuse and relay box in its original position.
- Refit:
  - the bolts **(6)** ,
  - the additional cornering lights computer,
  - the tyre pressure monitor computer,
  - the bolts **(3)** ,
  - the lower cover **(2)** ,
  - the bolts **(1)** .
- Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**) .
- When replacing the UCH, carry out the necessary operations using the **Diagnostic tool** (see **Fault finding - Replacement of components**) (87B, Passenger compartment connection unit).

### I - LIST OF COMPONENTS

No.	Description
(1)	UCH
(2)	Passenger compartment fuse and relay box
(3)	Remote door locking control
(4)	Central locking switch
(5)	Tailgate opening switch
(6)	Tailgate locking switch
(7)	Opening aerials

### II - POSITION OF THE COMPONENTS

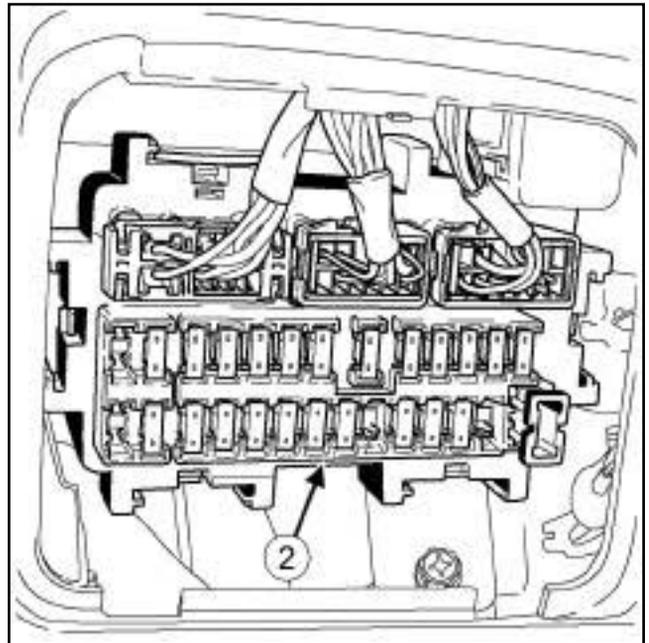
#### 1 - UCH



132490

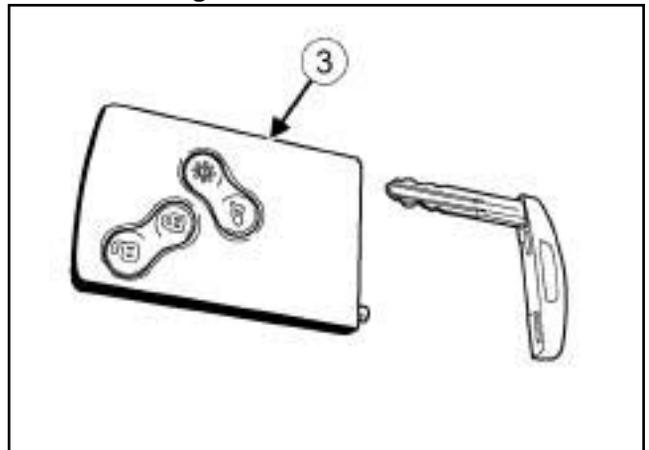
The UCH is located in the dashboard, behind the passenger compartment relay unit; to remove it (see **87B, Passenger compartment connection unit, UCH: Removal - Refitting**, page 87B-1) .

#### 2 - Passenger compartment fuse and relay box



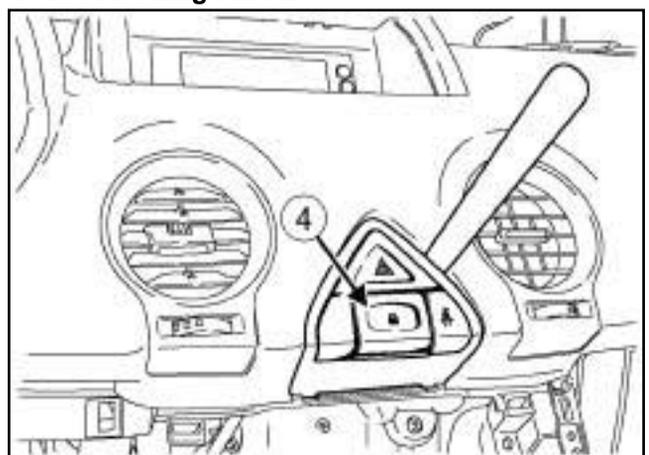
132491

#### 3 - Door locking remote control



132492

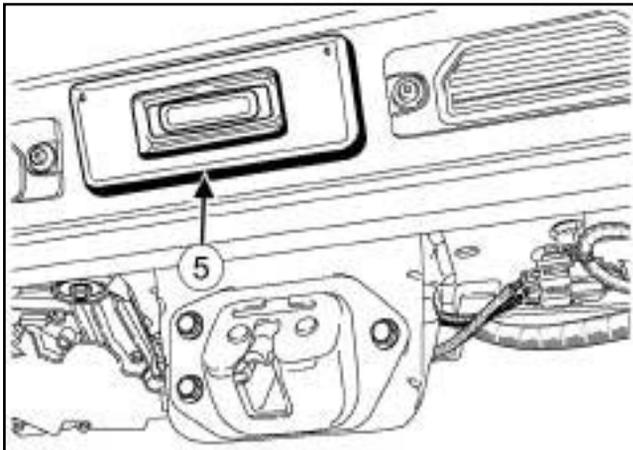
#### 4 - Door locking switch



132493

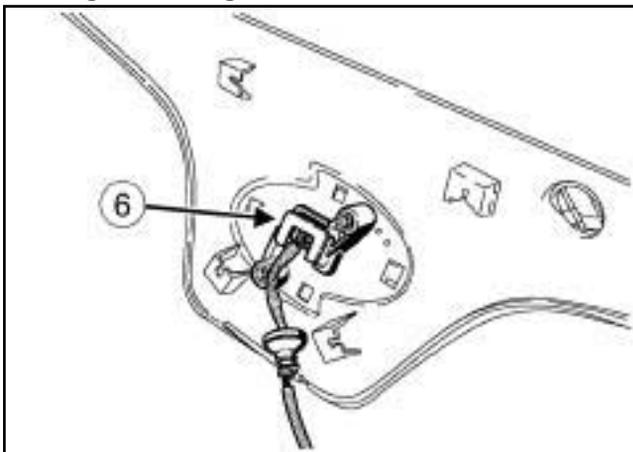
cardiagn.com

### 5 - Tailgate opening switch



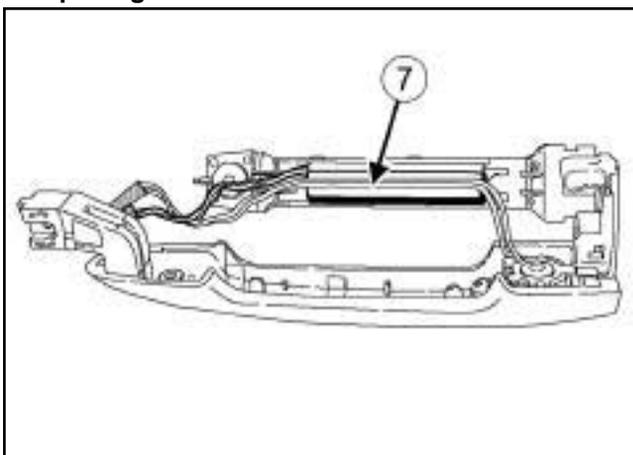
132494

### 6 - Tailgate locking switch



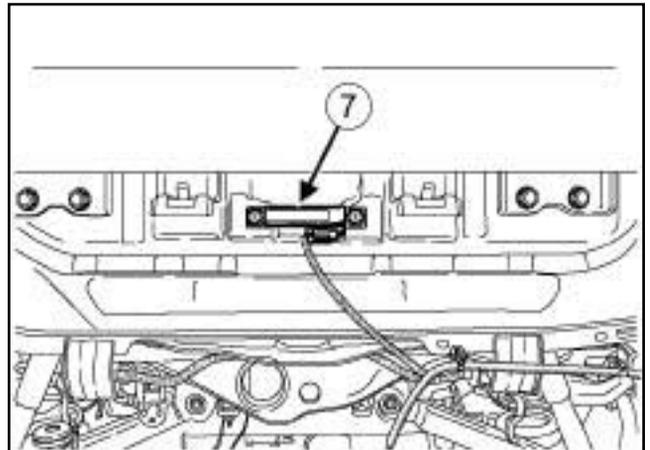
132495

### 7 - Opening aerials



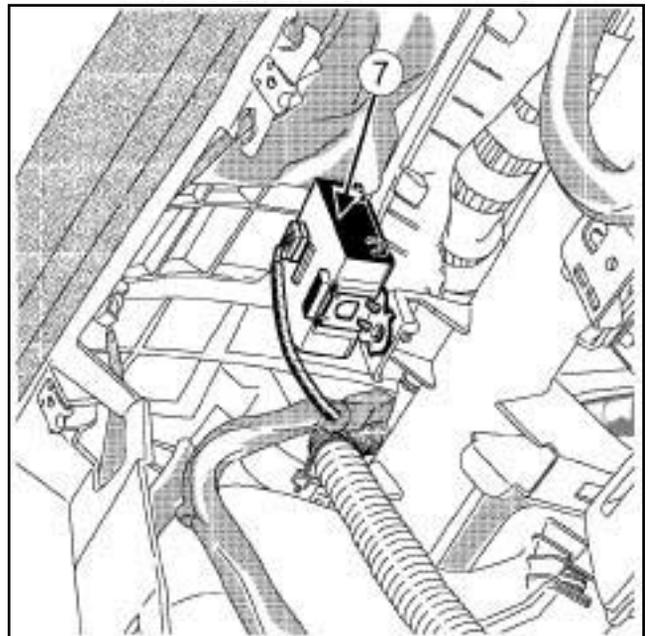
132496

Opening aerials in the front door handles.



132497

Opening aerial in the rear absorber: it is not necessary to remove the rear bumper.



132498

Keyless entry computer: to access the keyless entry computer, the glove box must be removed.

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

##### 1 - Opening aerial on the driver and passenger sides

- Remove the door handle on the side concerned (see **Exterior door handle: Removal - Refitting**) .

##### 2 - Rear opening aerial

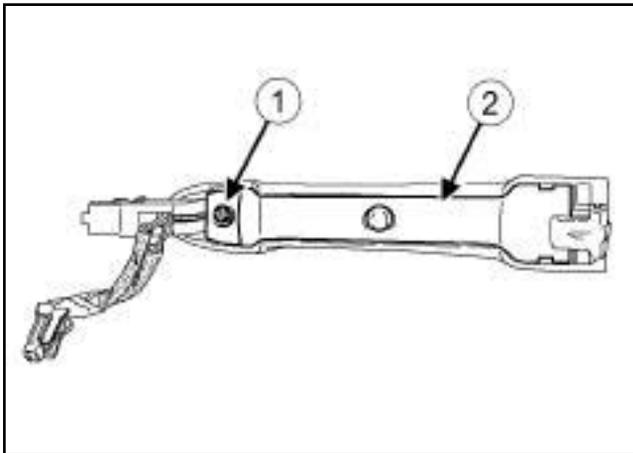
- Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (02A, Lifting equipment).

##### 3 - Keyless entry computer

- Remove the glovebox (see **Glovebox: Removal - Refitting**)

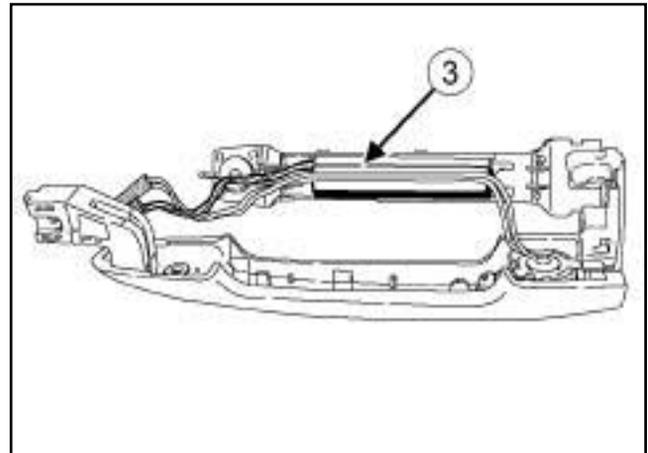
#### II - REMOVAL OF PART CONCERNED

##### 1 - Opening aerial on the driver and passenger sides



130768

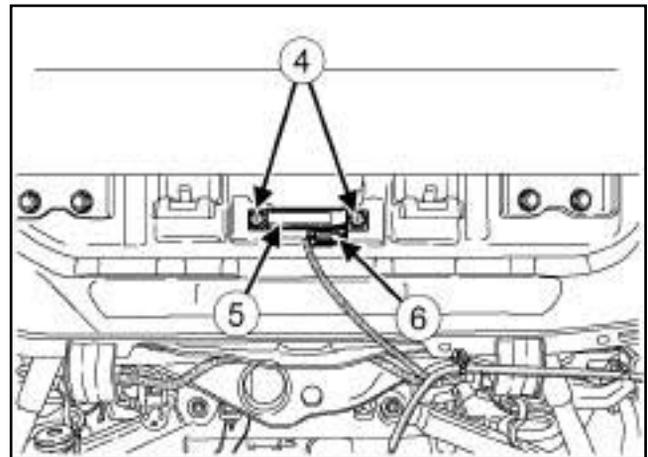
- Remove:
  - the bolt (1) ,
  - the cover (2) .



130769

- Remove the opening aerial (3) from the door handle.

##### 2 - Rear opening aerial



130770

- 

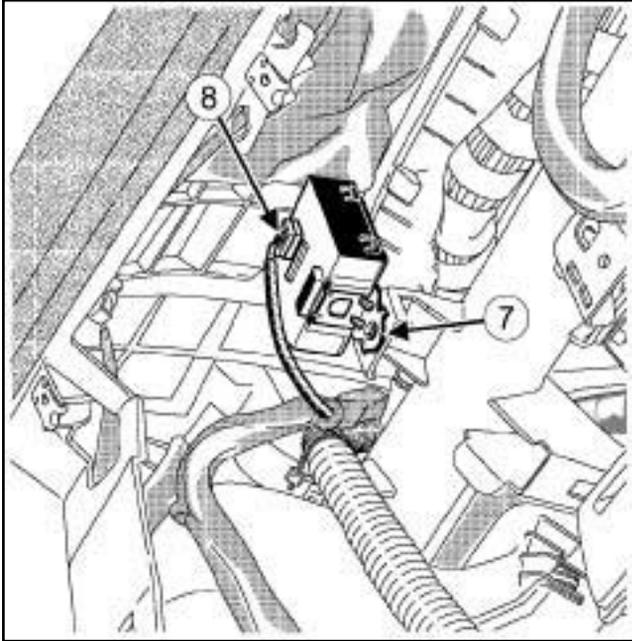
Note:

It is not necessary to remove the rear bumper.

- Remove:
  - the clips (4) ,
  - the opening aerial (5) .
- Disconnect the connector (6) .

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### 3 - Keyless entry computer



132498

- Remove the keyless entry computer bolt (7) .
- Disconnect the keyless entry computer connector (8) .
- Remove the keyless entry computer.

## REFITTING

### I - REFITTING PART CONCERNED

#### 1 - Opening aerial on the driver and passenger sides

- Refit the opening aerial on the door handle.
- Refit:
  - the cover,
  - the bolt.

#### 2 - Rear opening aerial

- Connect the connector.
- Refit:
  - the opening aerial,
  - the clips.

#### 3 - Keyless entry computer

- Connect the keyless entry computer connector.
- Refit:
  - the keyless entry computer,

- the keyless entry computer bolt.

### II - FINAL OPERATION

#### 1 - Opening aerial on the driver and passenger sides

- Refit the door handle (see **Exterior door handle: Removal - Refitting**) .

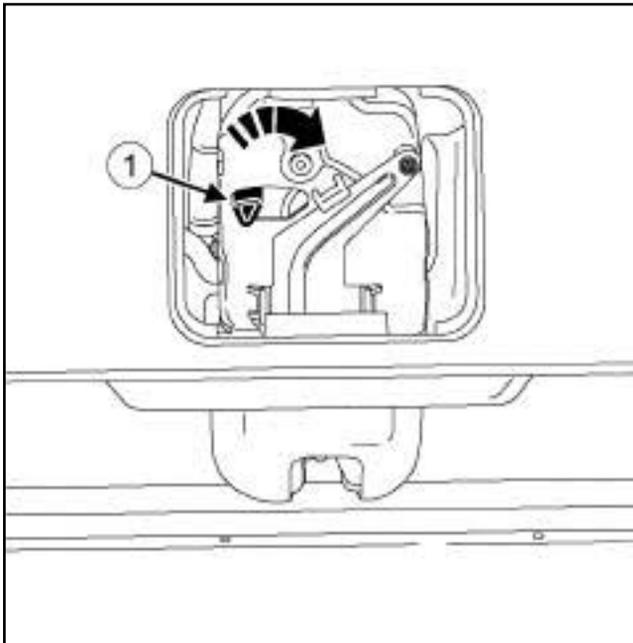
#### 2 - Keyless entry computer

- Refit the glovebox (see **Glovebox: Removal - Refitting**) .

# OPENING ELEMENT MANAGEMENT

## Tailgate opening switch: Removal - Refitting

# 87C



130844

### Note:

In case of an electrical fault, it is possible to open the tailgate manually.

Carry out this operation from inside the vehicle.

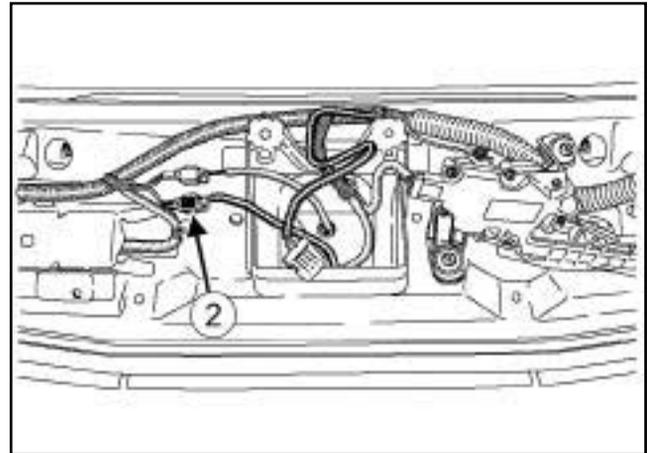
Unlock the tailgate by turning the fastener (1) in the direction of the arrow.

## REMOVAL

### I - REMOVAL PREPARATION OPERATION

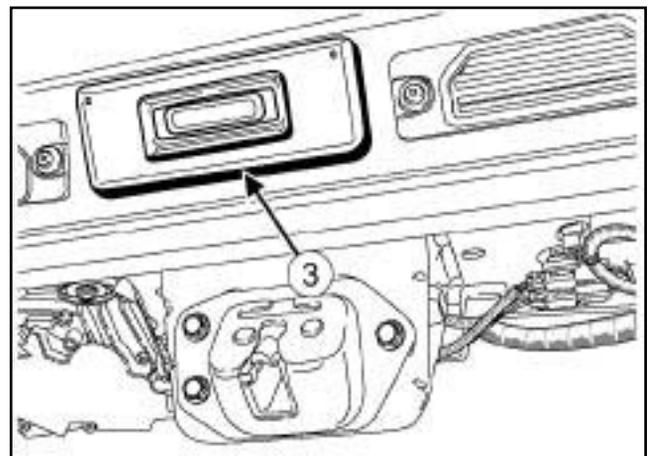
- ❑ Remove the tailgate lower trim (see **Tailgate trim: Removal - Refitting**) (73A, Non-side opening elements trim).

### II - OPERATION FOR REMOVAL OF PART CONCERNED



130845

- ❑ Disconnect the tailgate opening switch connector (2)



130846

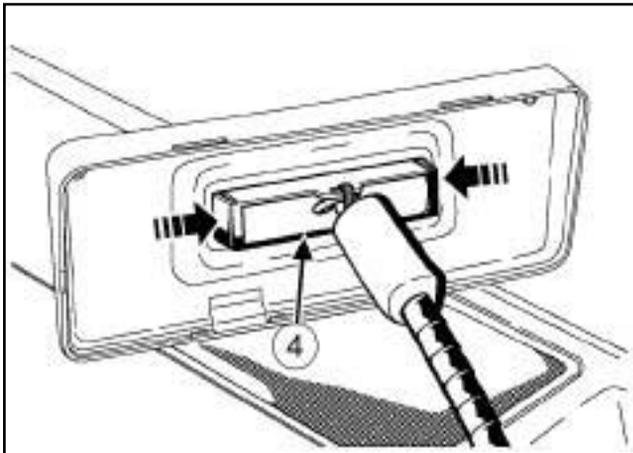
- ❑

### Note:

Carefully unclip the tailgate opening switch cover to avoid damaging it.

- ❑ Separate the cover (3) from the tailgate opening switch.
- ❑ Remove the tailgate opening switch assembly.

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130847

- Unclip the tailgate opening switch (4) by pressing on the clips in the direction of the arrows.
- Remove the tailgate opening switch from its support.

## **REFITTING**

### **I - REFITTING PREPARATION OPERATION**

- Check the condition of the tailgate opening switch cover.
- Replace the cover if it is damaged.

### **II - REFITTING OPERATION FOR PART CONCERNED**

- Refit:
  - the tailgate opening switch on the cover,
  - the tailgate opening switch assembly on the tailgate.
- Connect the tailgate opening switch connector.

### **III - FINAL OPERATION.**

- Refit the tailgate lower trim (see **Tailgate trim: Removal - Refitting**) (73A, Non-side opening elements trim).

# OPENING ELEMENT MANAGEMENT

## Tailgate locking switch: Removal - Refitting

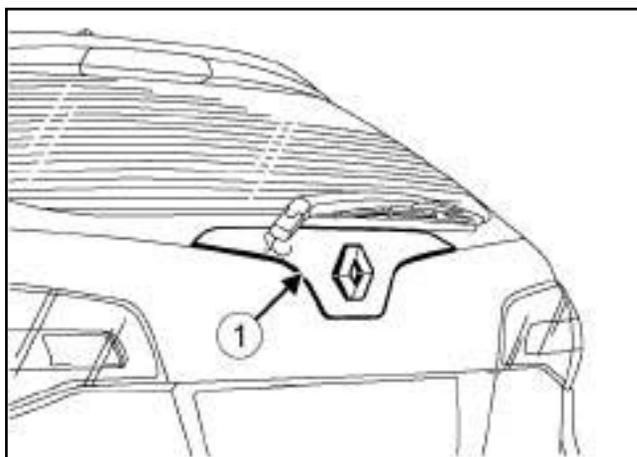
# 87C

### REMOVAL

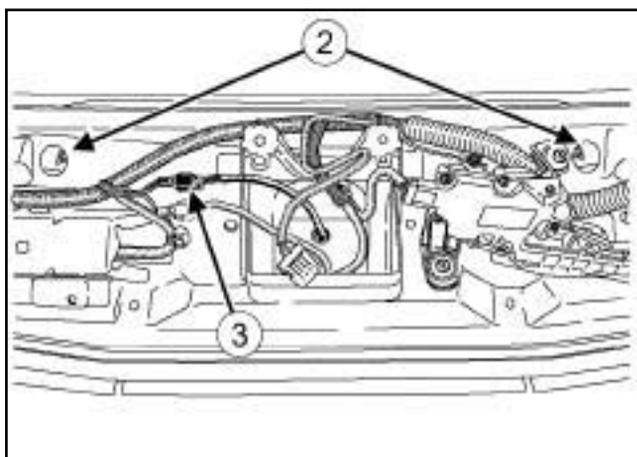
#### I - REMOVAL PREPARATION OPERATION

- Remove:
  - the tailgate lower trim (see **Tailgate trim: Removal - Refitting**) (73A, Non-side opening elements trim),
  - the tailgate lock (see **Tailgate lock: Removal - Refitting**) (52A, Non-side opening element mechanisms),
  - the rear screen wiper arm (see **85A, Wiping - Washing, Rear screen wiper arm: Removal - Refitting**, page 85A-13) .

#### II - REMOVAL OF PART CONCERNED

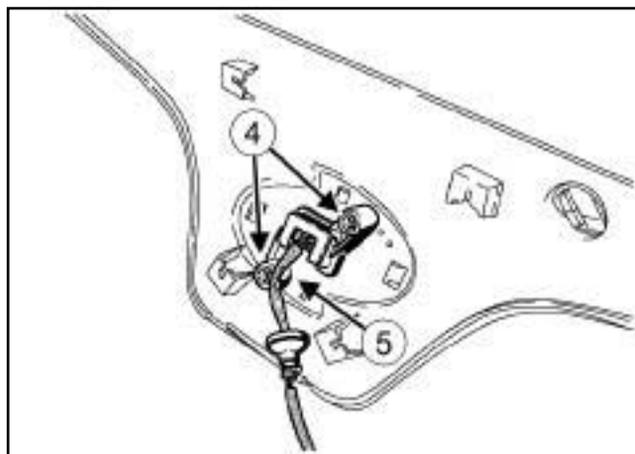


131369



131370

- Remove the nuts (2) from the tailgate trim (1) .
- Disconnect the connector (3) from the tailgate locking switch.
- Unclip the tailgate trim.
- Remove the tailgate trim.



131371

- Remove:
  - the bolts (4) from the tailgate locking switch support,
  - the tailgate locking switch (5) from the support.

### REFITTING

#### I - REFITTING PREPARATION OPERATION

- Check the condition of the clips on the tailgate trim.
- Replace the clips if they are damaged.

#### II - REFITTING PART CONCERNED

- Refit:
  - the tailgate locking switch on the tailgate trim with the support,
  - the bolts of the tailgate locking switch support,
  - the tailgate trim on the tailgate,
  - the tailgate trim nuts.
- Connect the tailgate locking switch connector.

#### III - FINAL OPERATION.

- Refit:
  - the rear screen wiper arm (see **85A, Wiping - Washing, Rear screen wiper arm: Removal - Refitting**, page 85A-13) ,
  - the tailgate lock (see **Tailgate lock: Removal - Refitting**) (52A, Non-side opening element mechanisms),
  - the tailgate lower trim (see **Tailgate trim: Removal - Refitting**) (73A, Non-side opening elements trim).

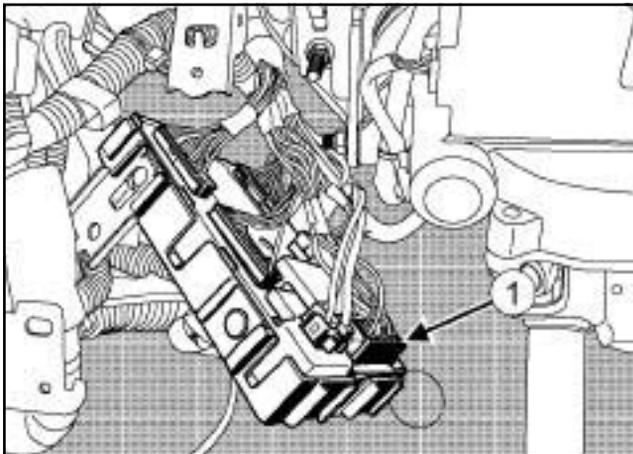
## Electric window: List and location of components

### I - LIST OF COMPONENTS

No.	Description
(1)	UCH
(2)	Front electric window switch on the driver's door
(3)	Front electric window switch on the passenger door
(4)	Rear window winder switch

### II - LOCATION OF COMPONENTS

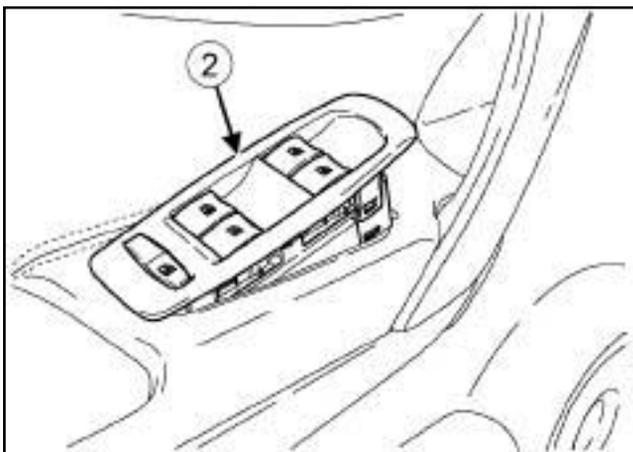
#### 1 - UCH



130848

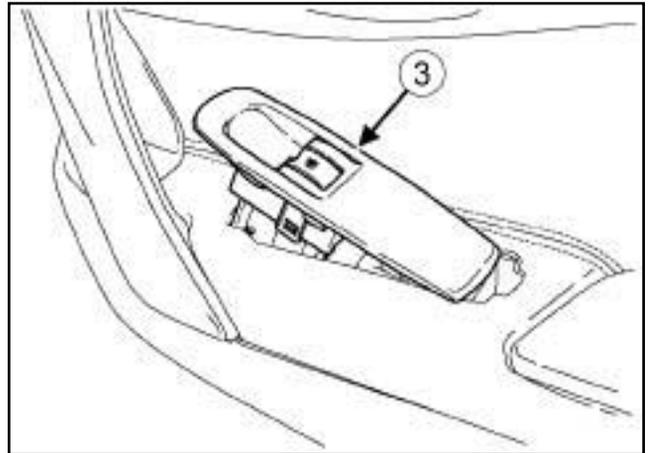
The UCH is located in the dashboard, behind the passenger compartment relay unit. To remove it (see **87B, Passenger compartment connection unit, UCH: Removal - Refitting**, page **87B-1**).

#### 2 - Front electric window switch on the driver's door



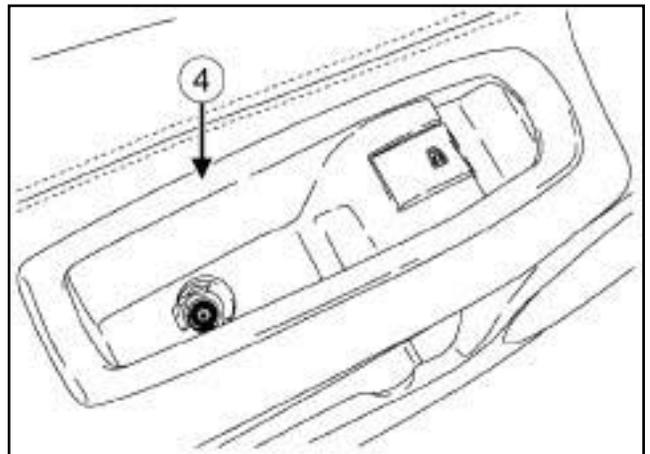
130849

#### 3 - Front electric window switch on the passenger door



130850

#### 4 - Rear window winder switch



130851

## Electric sunroof: List and location of components

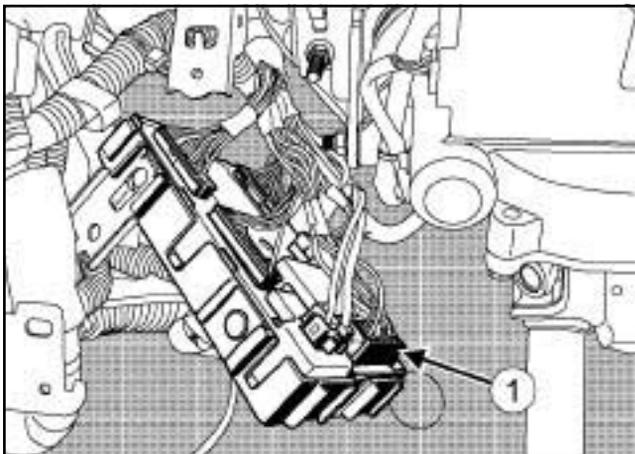
### ELECTRICAL SUNROOF + FIXED REAR SECTION

#### I - LIST OF COMPONENTS

No.	Description
(1)	UCH
(2)	Passenger compartment fuse and relay box
(3)	Sunroof switch
(4)	Sunroof motor - computer

#### II - LOCATION OF COMPONENTS

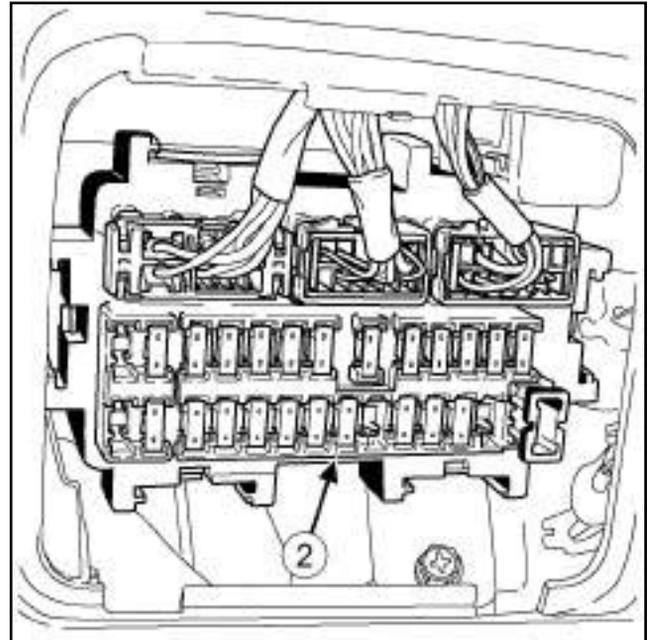
##### 1 - UCH



130852

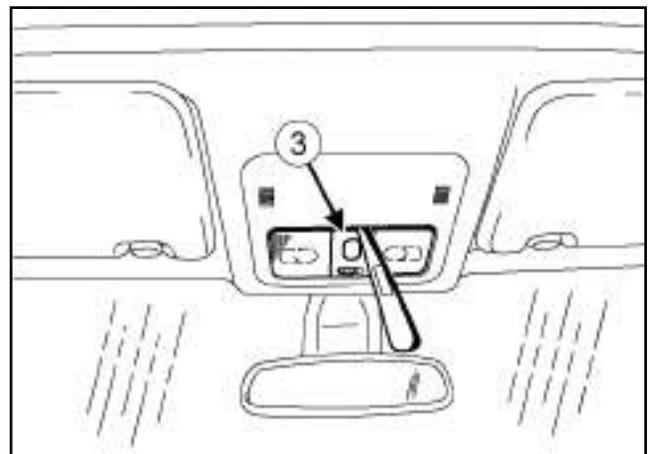
The UCH is located in the dashboard, behind the passenger compartment relay unit. To remove it (see **87B, Passenger compartment connection unit, UCH: Removal - Refitting**, page **87B-1**).

##### 2 - Passenger compartment fuse and relay box



130853

##### 3 - Sunroof switch

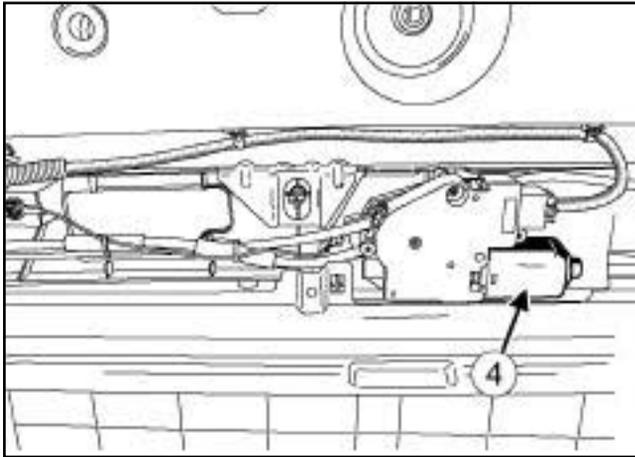


130460

## Electric sunroof: List and location of components

### ELECTRICAL SUNROOF + FIXED REAR SECTION

#### 4 - Sunroof motor - computer



130855

The « sunroof motor - computer » assembly is located under the headlining, at the rear of the vehicle.

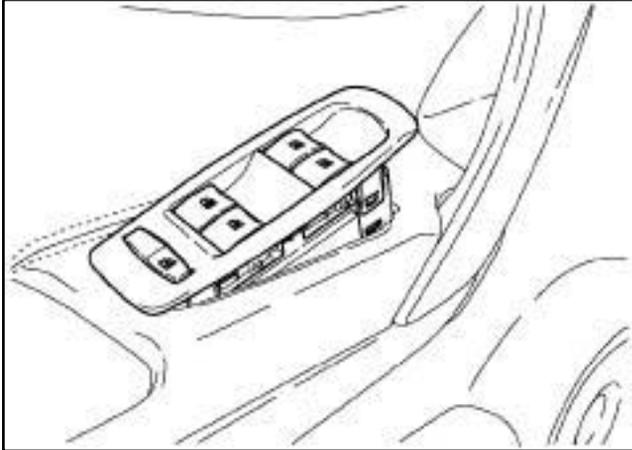
The sunroof opening motor and the electric sunroof computer cannot be separated.

### Special tooling required

Car. 1363      Set of trim removal levers.

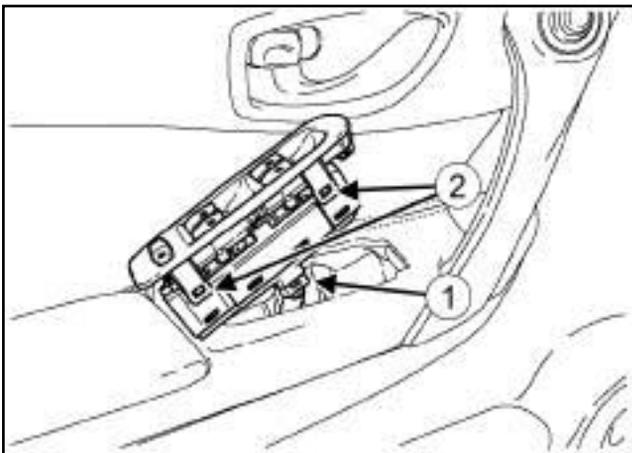
## REMOVAL

### OPERATION FOR REMOVAL OF PART CONCERNED



130856

- Unclip the electric window switch plate using the tool (Car. 1363).



130857

- Disconnect the electric window switch connector (1).
- Unclip clips (2).
- Remove the electric window switch from the plate.

## REFITTING

### REFITTING OPERATION FOR PART CONCERNED

- Refit the electric window switch on the plate.
- Connect the window winder switch connector.

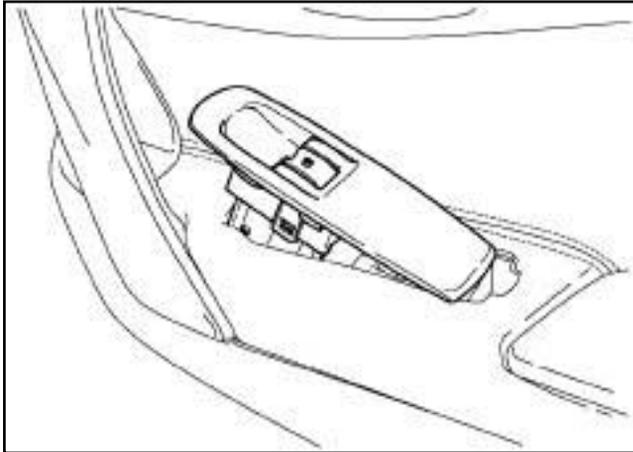
- Refit the electric window switch plate by inserting it from the rear.

### Special tooling required

Car. 1363                      Set of trim removal levers.

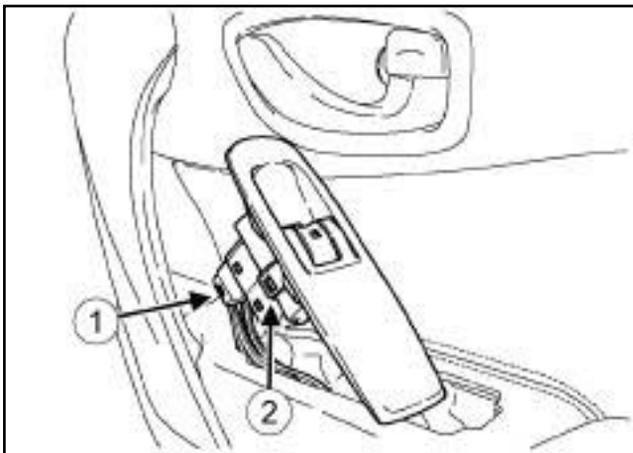
## REMOVAL

### OPERATION FOR REMOVAL OF PART CONCERNED



130858

- Unclip the electric window switch plate using the tool (Car. 1363).



130859

- Disconnect the electric window switch connector (1)
- Unclip the two clips (2) .
- Remove the electric window switch from the plate.

## REFITTING

### REFITTING OPERATION FOR PART CONCERNED

- Refit the electric window switch on the plate.
- Connect the window winder switch connector.

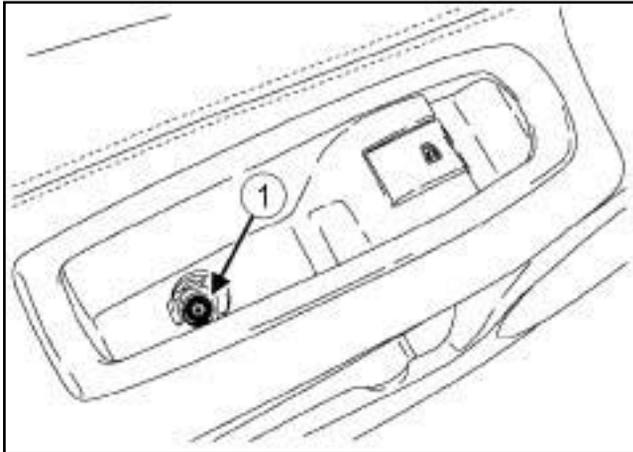
- Refit the electric window switch plate by inserting it from the rear.

## Special tooling required

Car. 1363	Set of trim removal levers.
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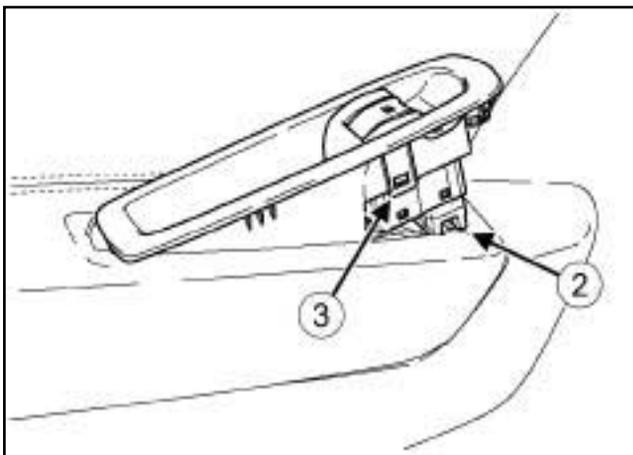
## REMOVAL

## OPERATION FOR REMOVAL OF PART CONCERNED



130860

- Remove:
  - the cover,
  - bolt (1) .



130861

- Unclip the rear electric window switch plate using the tool (**Car. 1363**).
- Disconnect the rear electric window switch connector (2) .
- Unclip the two clips (3) .
- Separate the rear electric window switch from the plate.

## REFITTING

## REFITTING OPERATION FOR PART CONCERNED

- Refit the rear electric window switch on the plate.
- Connect the rear electric window switch connector.
- Refit:
  - the rear electric window plate by inserting it from the rear,
  - the bolt,
  - the cover.

# ELECTRIC WINDOWS - SUNROOF

## Sunroof switch: Removal - Refitting

# 87D

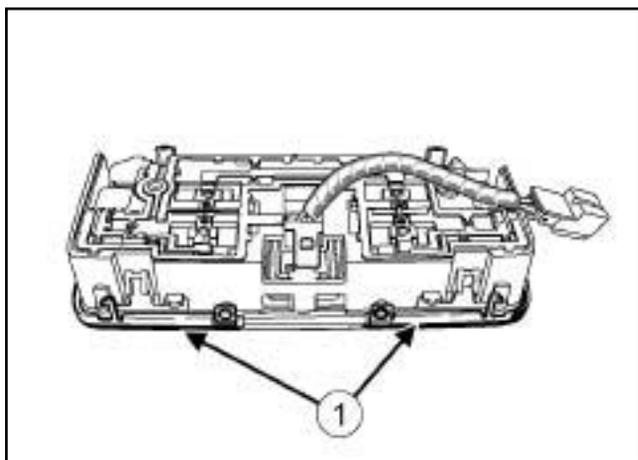
ELECTRICAL SUNROOF + FIXED REAR SECTION

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

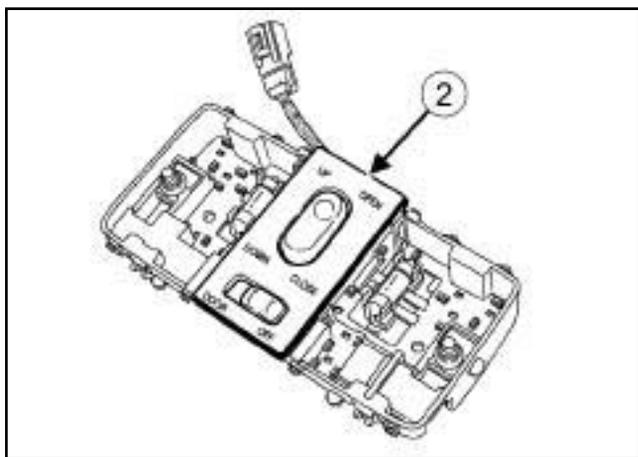
- ❑ Remove the interior light (see **81B, Interior lighting, Interior light: Removal - Refitting**, page **81B-4**).

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



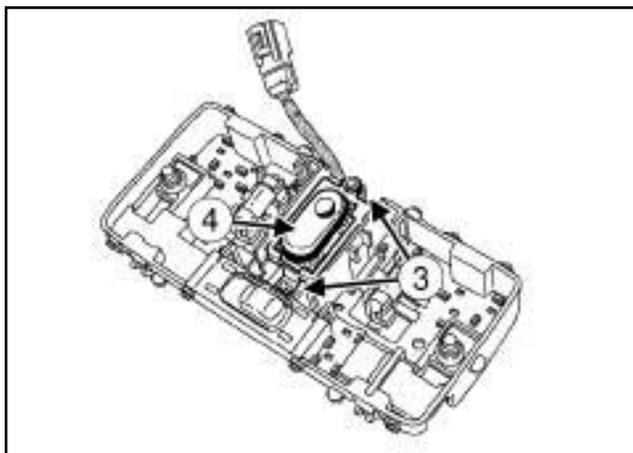
130862

- ❑ Unclip the translucent covers (1).



130863

- ❑ Unclip the sunroof switch cover (2).



130864

- ❑ Remove:
  - the sunroof switch bolts (3),
  - the sunroof switch (4).

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

- ❑ Refit:
  - the sunroof switch,
  - the sunroof switch bolts,
  - the sunroof switch cover,
  - the translucent covers.

#### II - FINAL OPERATION.

- ❑ Refit the interior light (see **81B, Interior lighting, Interior light: Removal - Refitting**, page **81B-4**).

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# ELECTRIC WINDOWS - SUNROOF

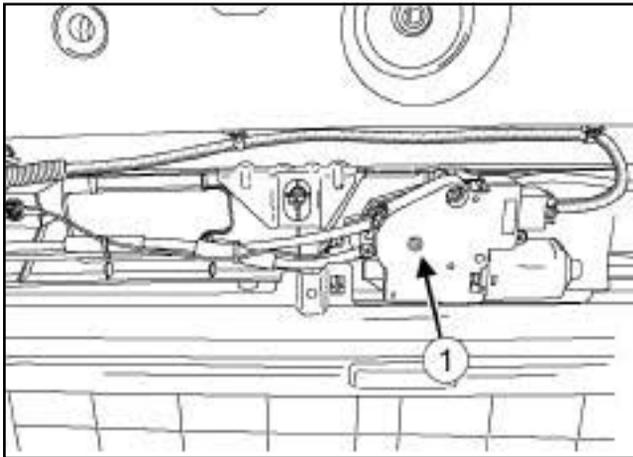
## Sunroof opening motor: Removal - Refitting

# 87D

ELECTRICAL SUNROOF + FIXED REAR SECTION

### Tightening torques

sunroof motor bolts	3 N.m
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#### Note:

In the event of a fault, the electric sunroof motor can be moved manually at (1) using an Allen key.

#### Note:

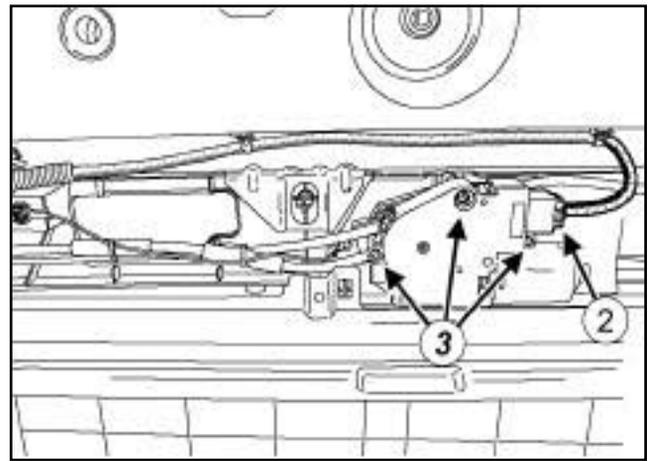
The sunroof motor and the electric sunroof computer cannot be separated.

## REMOVAL

### I - REMOVAL PREPARATION OPERATION

- Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**).
- Remove the headlining (see **Headlining: Removal - Refitting**) (71A, Body internal trim).

### II - OPERATION FOR REMOVAL OF PART CONCERNED



- Disconnect the connector (2) from the sunroof motor.
- Remove:
  - the bolts (3) from the sunroof motor,
  - the sunroof motor.

## REFITTING

### I - REFITTING OPERATION FOR PART CONCERNED

- Refit:
  - the sunroof motor,
  - the sunroof motor bolts.
- Torque tighten the **sunroof motor bolts (3 N.m)**.
- Connect the sunroof motor connector.

### II - FINAL OPERATION.

- Refit the headlining (see **Headlining: Removal - Refitting**) (71A, Body internal trim).
- Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**).

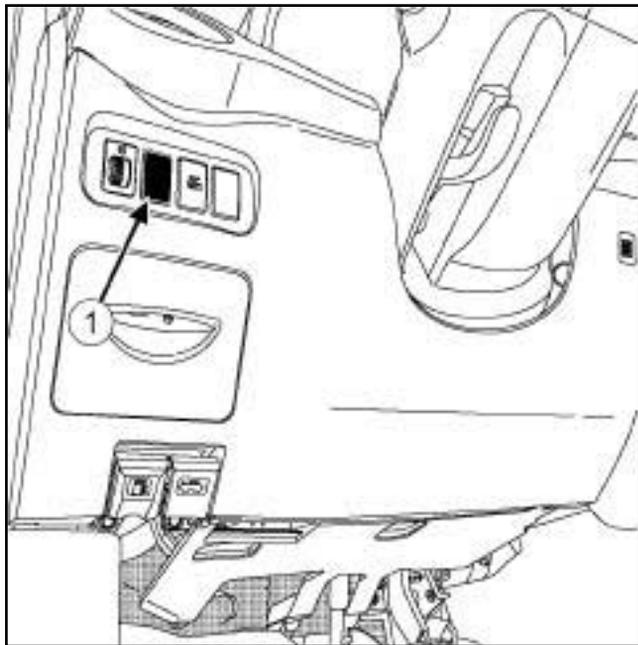
### FRONT AND REAR PROXIMITY RADAR

#### I - LIST OF COMPONENTS

No.	Description
(1)	Parking distance control switch
(2)	Front parking distance control buzzer
(3)	Rear parking distance control buzzer
(4)	Front proximity sensors
(5)	Rear proximity sensors
(6)	Parking distance control computer

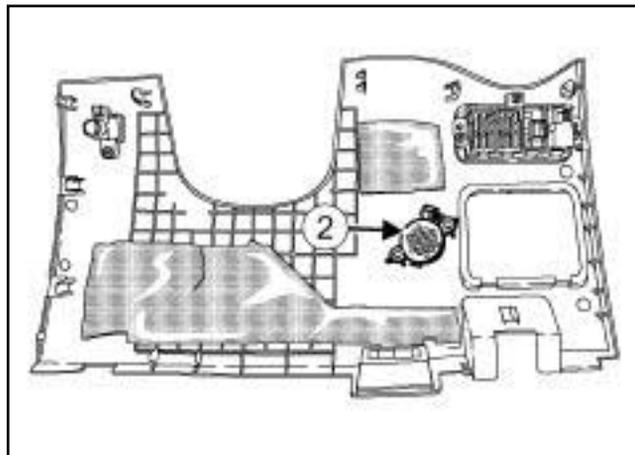
#### II - LOCATION OF COMPONENTS

##### 1 - Parking distance control switch



131373

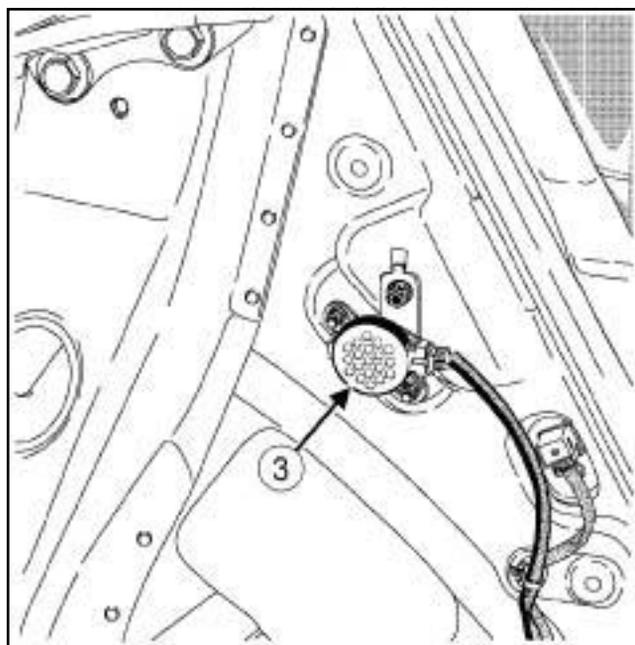
##### 2 - Front parking distance control buzzers



131374

The front parking distance control buzzer (2) is located at the rear of the dashboard lower cover on the driver's side.

##### 3 - Rear parking distance control buzzer

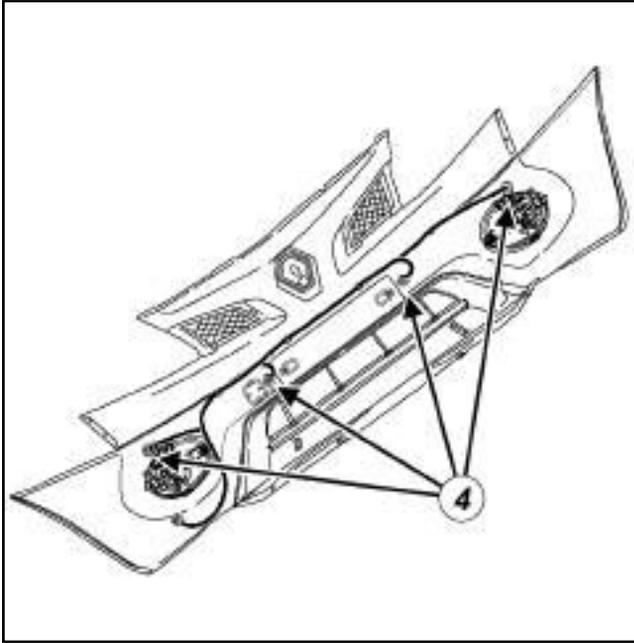


131375

The rear parking distance control buzzer (3) is located in the left-hand side of the C-pillar lower trim.

### FRONT AND REAR PROXIMITY RADAR

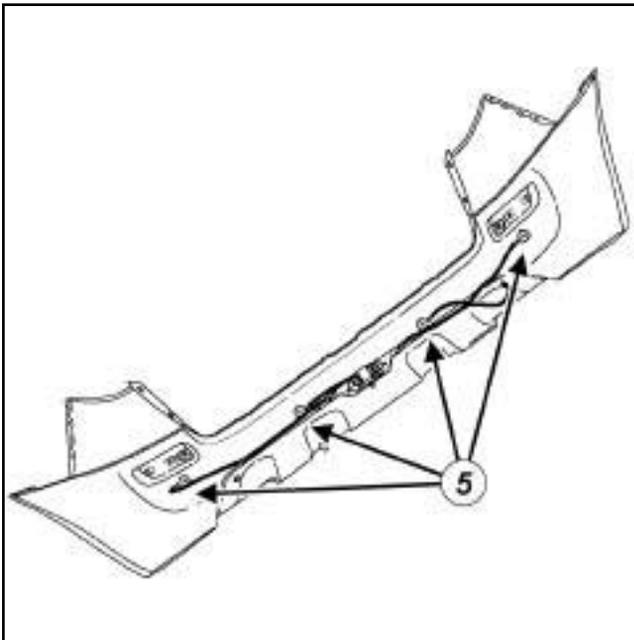
#### 4 - Front proximity sensors



131376

Four proximity radars (4) are clipped into the supports on the front bumper.

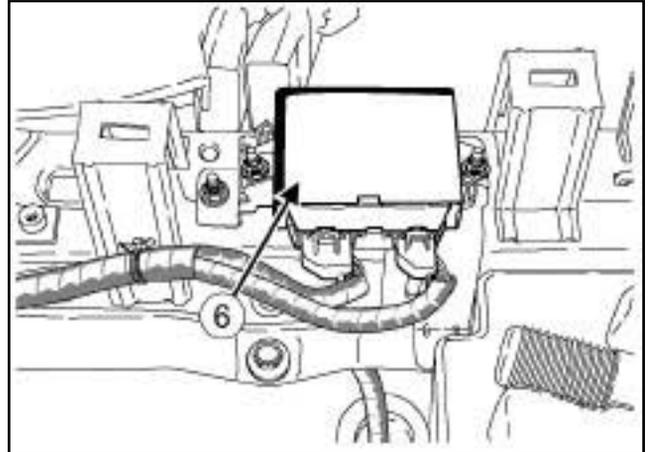
#### 5 - Rear proximity sensors



131377

Four proximity radars (5) are clipped into the supports on the rear bumper.

#### 6 - Parking distance control computer



131378

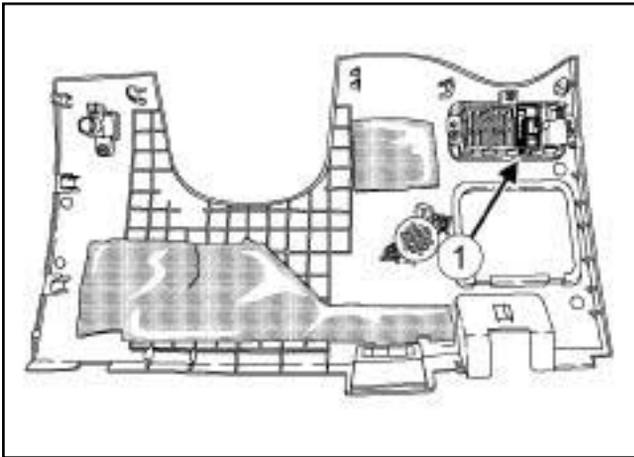
### FRONT AND REAR PROXIMITY RADAR

#### REMOVAL

##### I - REMOVAL PREPARATION OPERATION

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

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



130867

- Unclip the parking distance control switch (1) from the dashboard lower cover.

#### REFITTING

##### I - REFITTING OPERATION FOR PART CONCERNED

- Clip the parking distance control switch onto the dashboard lower cover.

##### II - FINAL OPERATION.

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

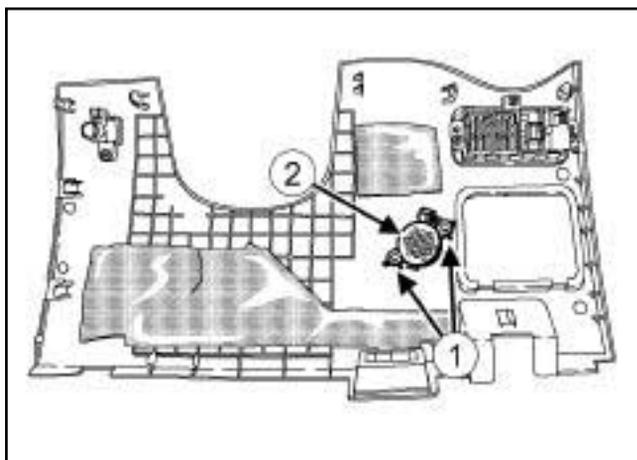
### FRONT AND REAR PROXIMITY RADAR

#### REMOVAL

##### OPERATION FOR REMOVAL OF PART CONCERNED

##### 1 - Front parking distance control buzzer

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

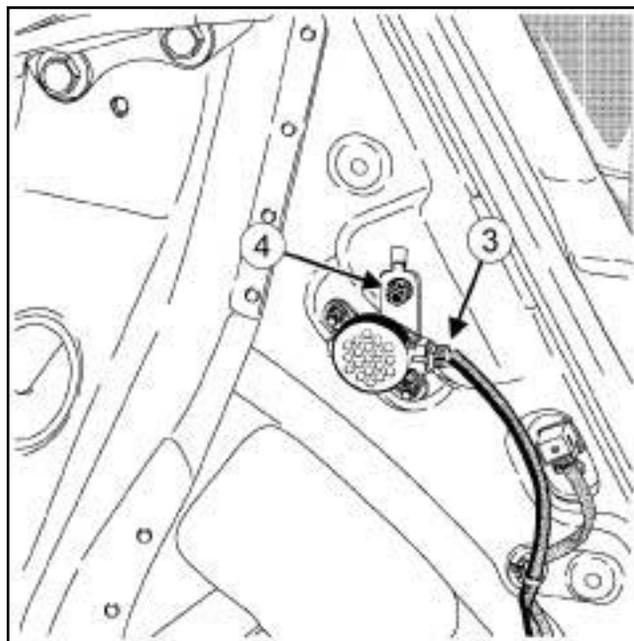


130868

- Remove:
  - the front parking distance control buzzer bolts (1) ,
  - the front parking distance control buzzer (2) .

##### 2 - Rear parking distance control buzzer

- Remove the C-pillar lower trim on the left-hand side (see **C-pillar lower trim: Removal - Refitting**) (71A, Body internal trim).



130869

- Disconnect the connector (3) from the rear parking distance control buzzer.
- Remove:
  - the rear parking distance control buzzer bolt (4) ,
  - the rear parking distance control buzzer.

#### REFITTING

##### REFITTING OPERATION FOR PART CONCERNED

##### 1 - Front parking distance control buzzer

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

##### 2 - Rear parking distance control buzzer

- Refit:
  - the rear parking distance control buzzer,
  - the rear parking distance control buzzer bolts.
- Connect the rear parking distance control buzzer connector.
- Refit the C-pillar lower trim on the left-hand side (see **C-pillar lower trim: Removal - Refitting**) (71A, Body internal trim).

# PARKING DISTANCE CONTROL

## Proximity radar: Removal - Refitting

# 87F

### FRONT AND REAR PROXIMITY RADAR

#### REMOVAL

##### I - REMOVAL PREPARATION OPERATION



Note:

The operations for removing and refitting the front and rear proximity radars are identical.

- Remove the front bumper (see **Front bumper: Removal - Refitting**) (55A, Exterior protection) or the rear bumper (see **Rear bumper: Removal - Refitting**) (55A, Exterior protection).

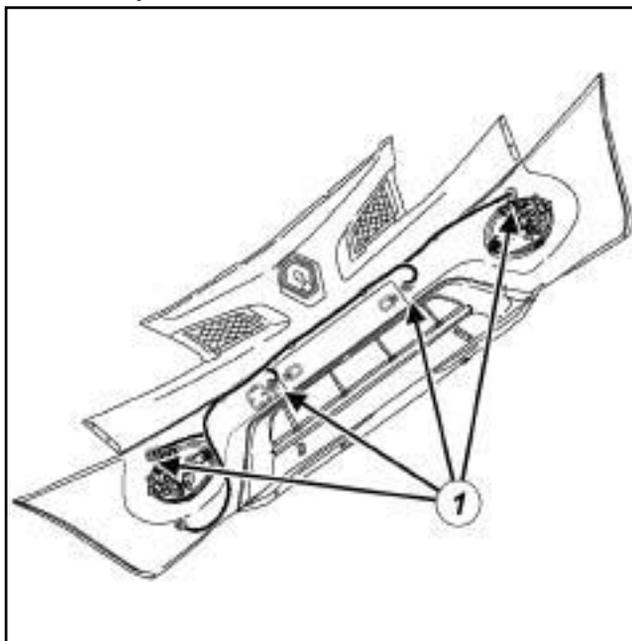
##### II - OPERATION FOR REMOVAL OF PART CONCERNED



#### WARNING

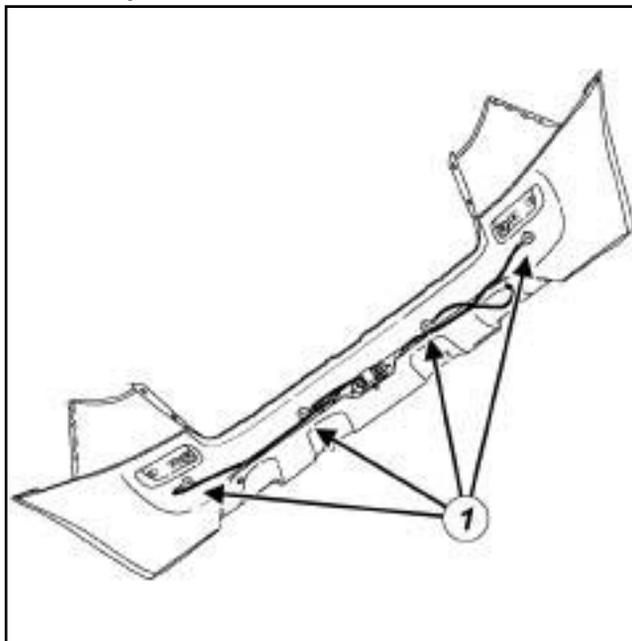
The distance control radars are fragile. Handle with care as the external part cannot withstand impacts.

#### Front bumper



131376

#### Rear bumper



131377

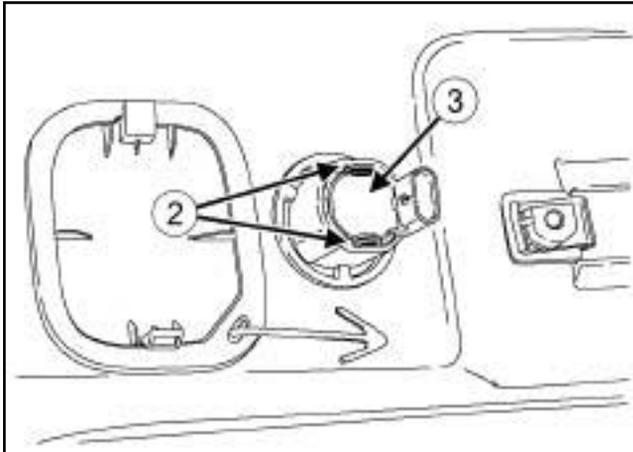
- Disconnect the connectors (1) from the proximity radar.

# PARKING DISTANCE CONTROL

## Proximity radar: Removal - Refitting

87F

### FRONT AND REAR PROXIMITY RADAR



131381

- Unclip the proximity radar at (2) .
- Remove the proximity radar (3) .

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

- Clip the proximity radar onto its support.
- Connect the proximity radar connectors.

#### II - FINAL OPERATION.

- Refit the front bumper (see **Front bumper: Removal - Refitting**) (55A, Exterior protection) or the rear bumper (see **Rear bumper: Removal - Refitting**) (55A, Exterior protection).

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### FRONT AND REAR PROXIMITY RADAR

#### Equipment required

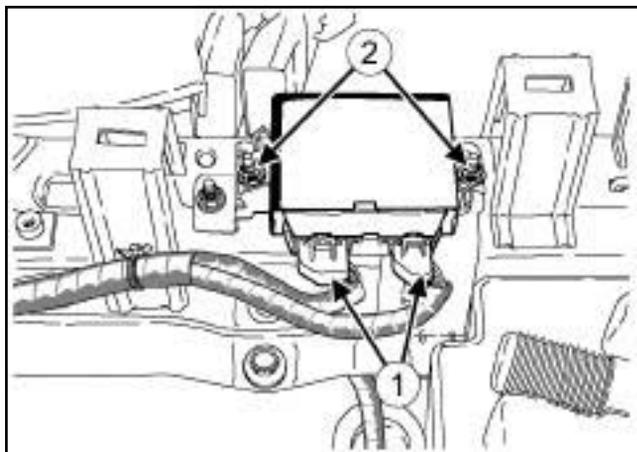
Diagnostic tool

## REMOVAL

### I - REMOVAL PREPARATION OPERATION

- Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**).
- Remove the luggage compartment floor trim (see **Luggage compartment floor lining: Removal - Refitting**) (71A, Body internal trim).

### II - OPERATION FOR REMOVAL OF PART CONCERNED



131378

- Disconnect the connectors (1) from the parking distance control computer.
- Remove:
  - the parking distance control computer nuts (2),
  - the parking distance control computer.

## REFITTING

### I - REFITTING OPERATION FOR PART CONCERNED

- Refit:
  - the parking distance control computer,
  - the parking distance control computer nuts.
- Connect the parking distance control computer connectors.

### II - FINAL OPERATION.

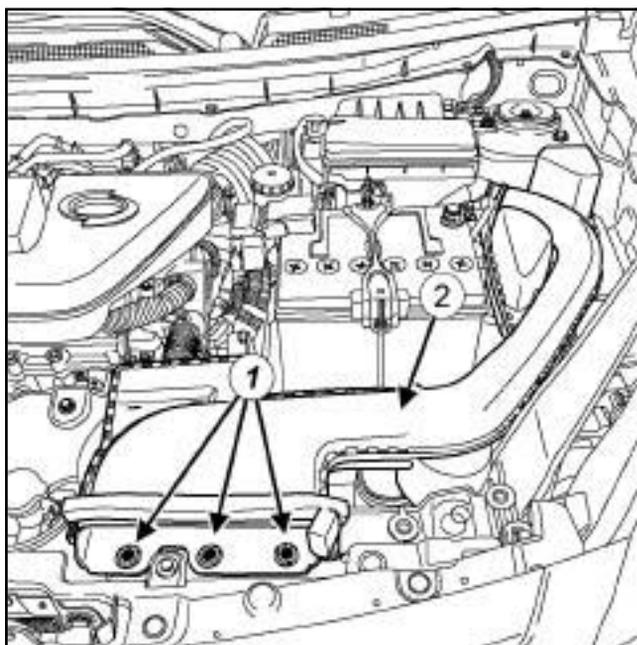
- Refit the luggage compartment floor trim (see **Luggage compartment floor lining: Removal - Refitting**) (71A, Body internal trim).
- Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**).
- In the event of replacement, carry out the necessary operations using the **Diagnostic tool** (see **Replacement of components**) (87F, Parking distance control).

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

- ❑ Disconnect the battery (see 80A, **Battery, Battery: Removal - Refitting**, page 80A-3) .

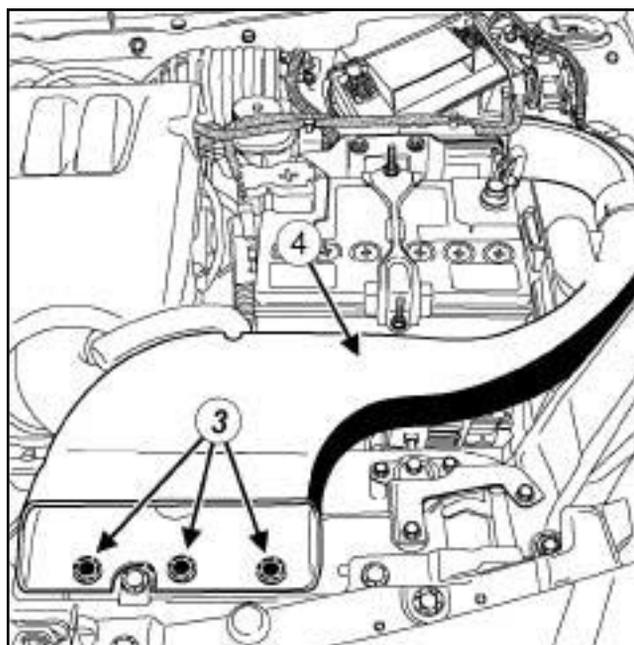
2TR



130771

- ❑ Unclip the clips (1) .
- ❑ Remove the air inlet duct (2) .

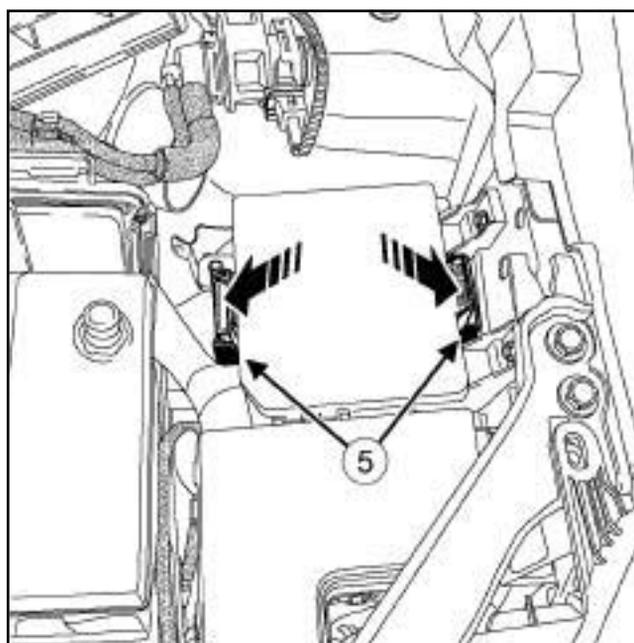
M9R



130772

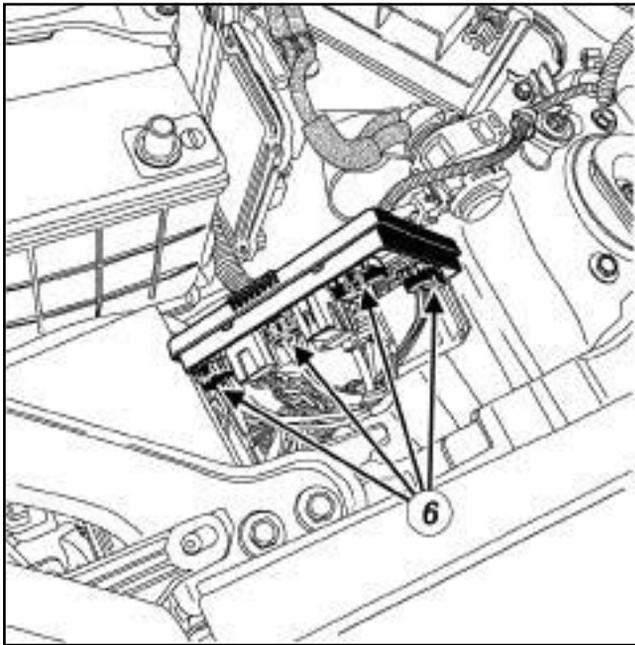
- ❑ Unclip the clips (3) .
- ❑ Remove the air inlet duct (4) .

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



130773

- ❑ Unclip the Protection and Switching Unit at (5) .



130774

- Disconnect the connectors (6) from the Protection and Switching Unit by pressing on the tab of the connector.

## **REFITTING**

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

- Fit the protection and switching unit.
- Connect the connectors.
- Check the condition of the wiring.
- Clip on the Protection and Switching Unit.

### **II - FINAL OPERATION.**

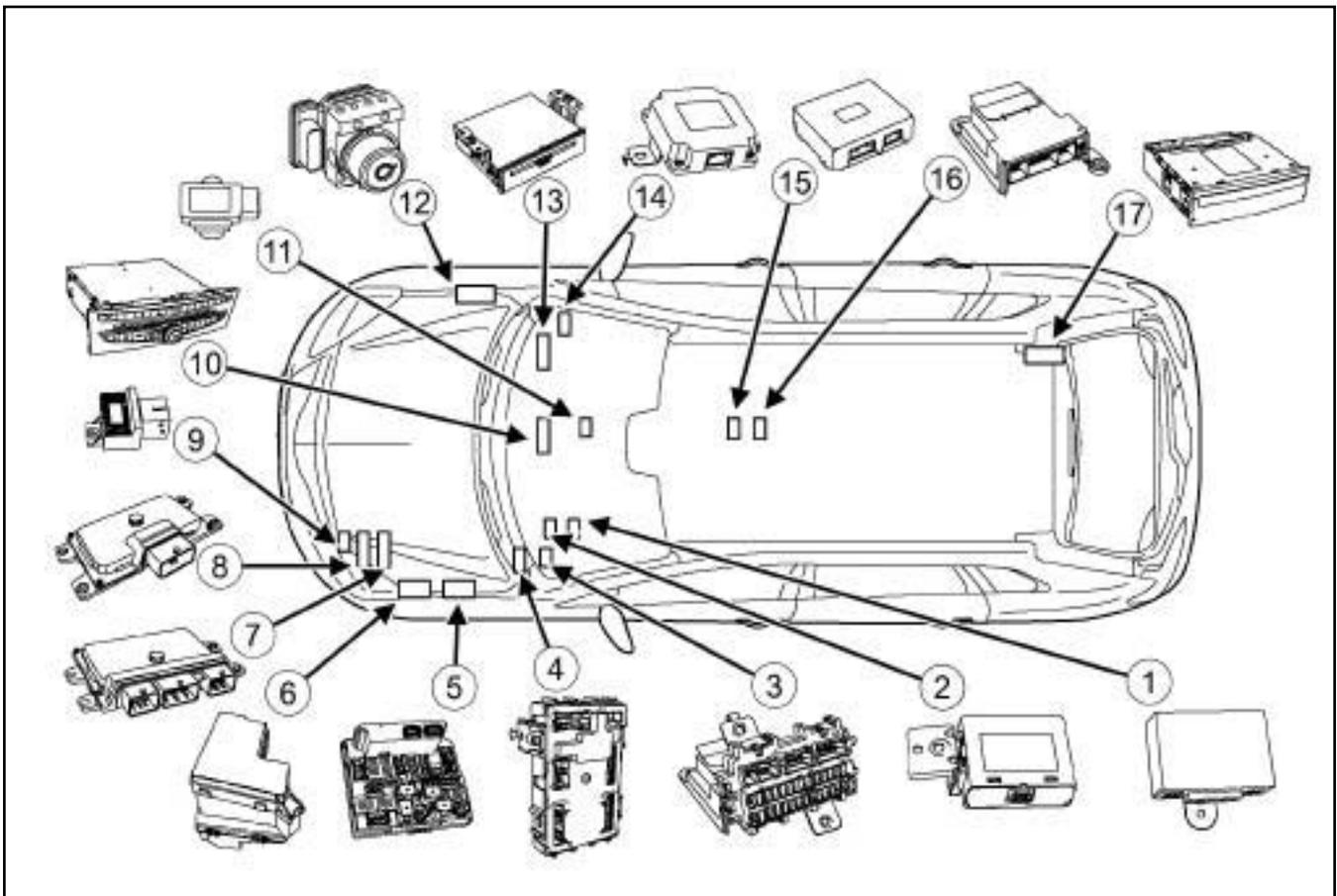
- Refit the air inlet duct.
- Clip on the clips.
- Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**).
- When replacing the Protection and Switching Unit, carry out the necessary configuration (see **Replacement of components**) (87G, Engine compartment connection unit).

### I - LIST OF COMPONENTS

No.	Description
(1)	Additional cornering lights computer
(2)	Tyre pressure monitor computer
(3)	Passenger compartment fuse and relay box
(4)	UCH
(5)	Protection and switching unit
(6)	Engine fuse and relay box
(7)	Injection computer
(8)	Automatic gearbox computer

No.	Description
(9)	Pre-postheating unit
(10)	Radio
(11)	Yaw speed and lateral acceleration sensor
(12)	ABS / ESP computer
(13)	Navigation computer
(14)	Rear final drive coupler computer
(15)	Telephone computer
(16)	Airbag computer
(17)	Radio unit

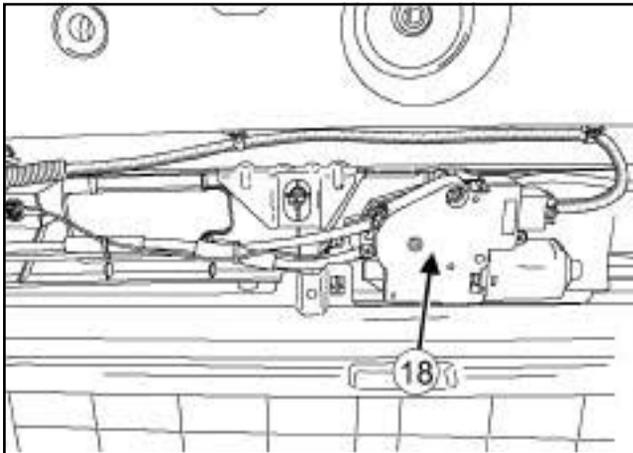
### II - LOCATION OF COMPONENTS



130775

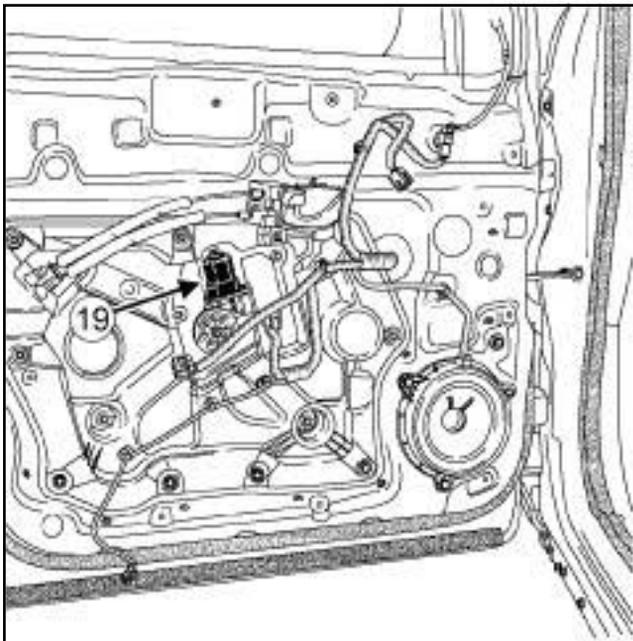
## Computers: List and location of components

### Computers integrated into components



130776

The sunroof computer is integrated into the electric motor (18) .



130777

The anti-pinch function is integrated into the electric motor (19) .

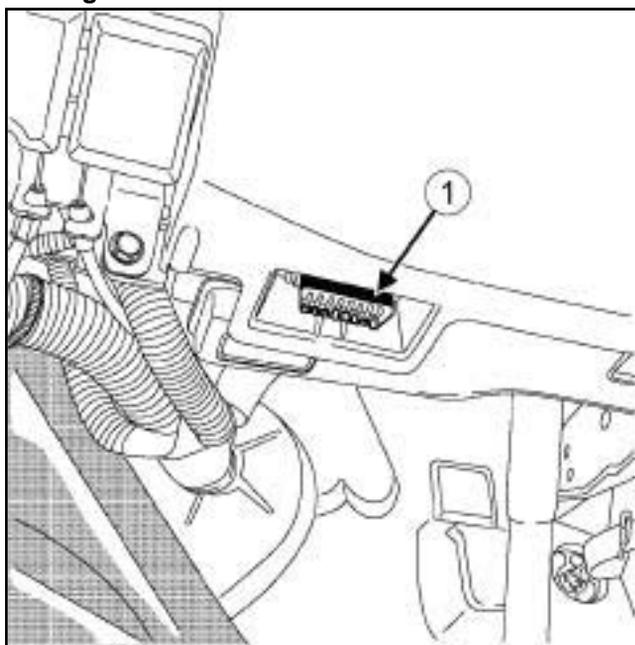
## Diagnostic socket: List and location of components

### I - LIST OF COMPONENTS

No.	Description
(1)	Diagnostic socket

### II - LOCATION OF COMPONENTS

#### 1 - Diagnostic socket



130778

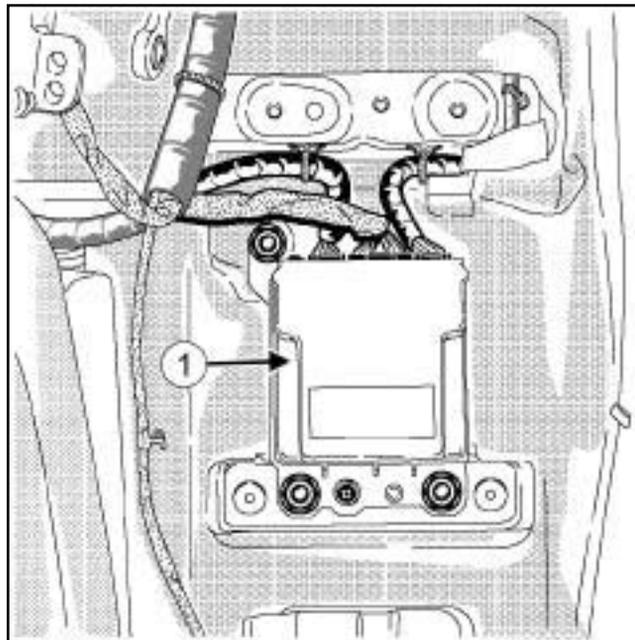
The diagnostic socket is located on the lower section of the dashboard lower cover on the driver's side.

### I - LIST OF COMPONENTS

No.	Description
(1)	Airbag computer
(2)	Driver's front airbag
(3)	Passenger front airbag
(4)	Front (thorax) side airbag
(5)	Curtain side airbag
(6)	Front seat lap belt pretensioner
(7)	Front seat belt buckle
(8)	Rear seat belt buckles
(9)	Front side seat belt
(10)	Rear side seat belt
(11)	Rear centre seat belt
(12)	Side impact sensor
(13)	Front impact sensor
(14)	Inhibitor switch
(15)	Front passenger airbag inhibitor switch warning light
(16)	Passenger seat belt warning light
(17)	Passenger presence sensor

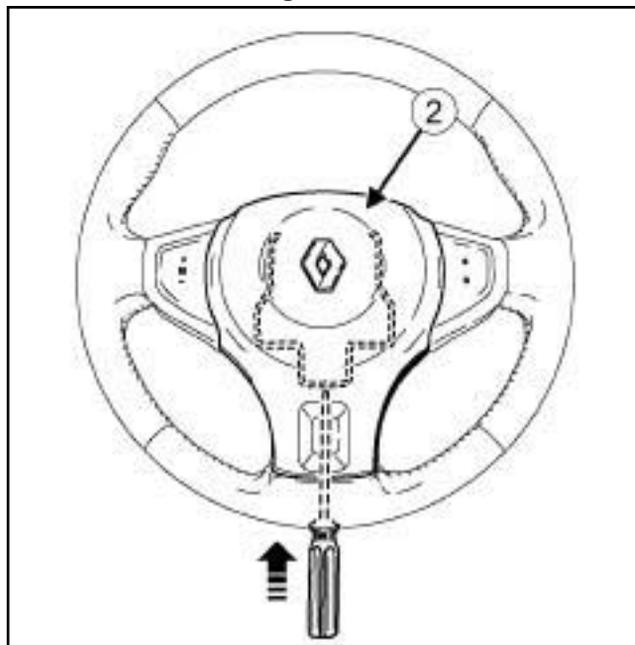
### II - LOCATION OF COMPONENTS

#### 1 - Airbag computer



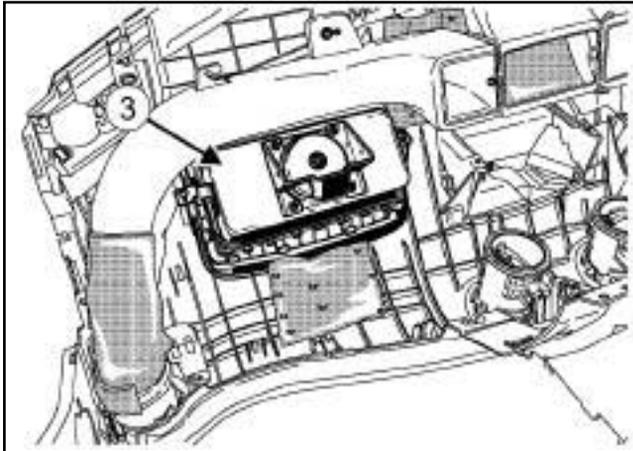
131742

#### 2 - Driver's front airbag



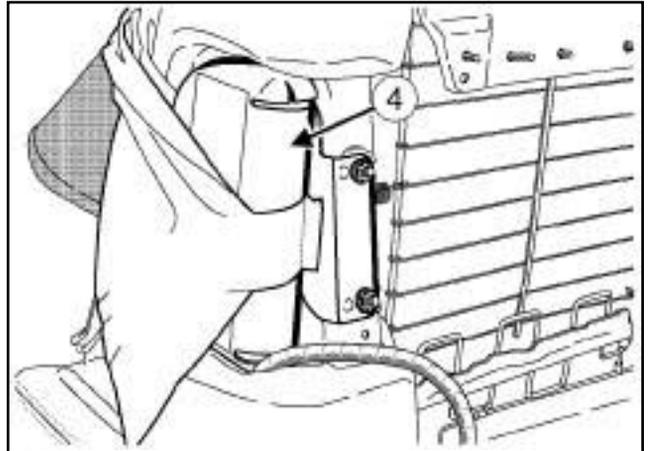
131743

3 - Passenger front airbag



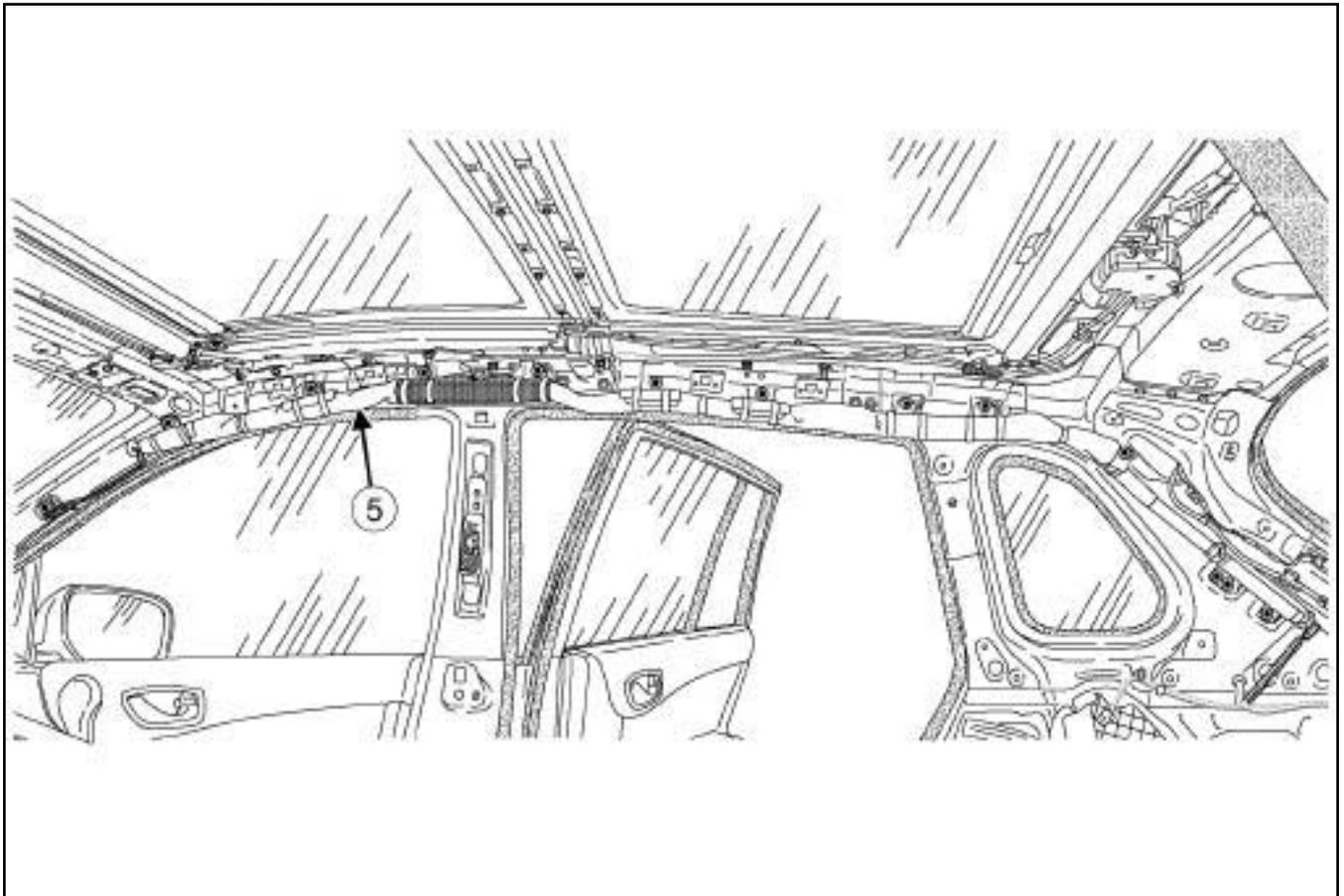
131744

4 - Front (chest-level) side airbag



131745

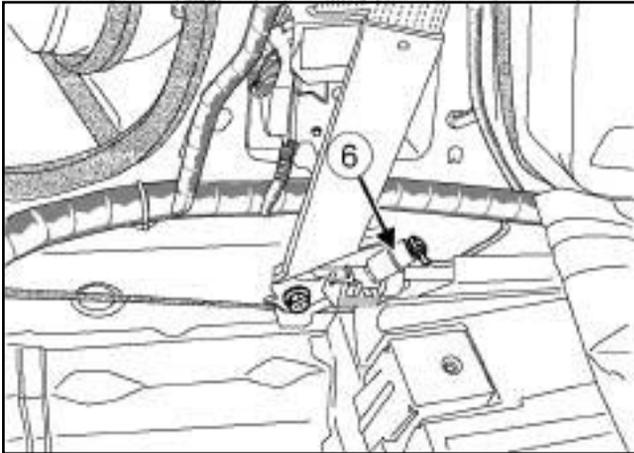
5 - Curtain side airbag



131746

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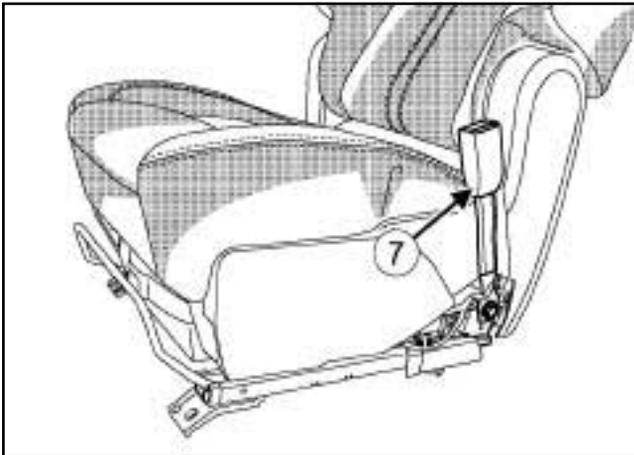
### 6 - Front seat lap belt pretensioner



131747

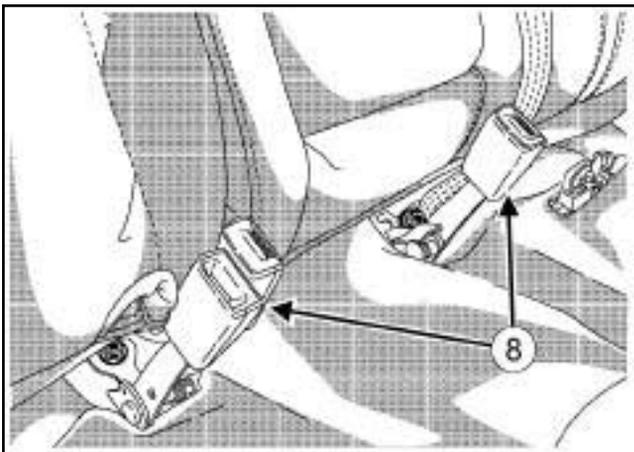
The front seat lap belt pretensioner cannot be separated from the front side seat belt.

### 7 - Front seat belt buckle



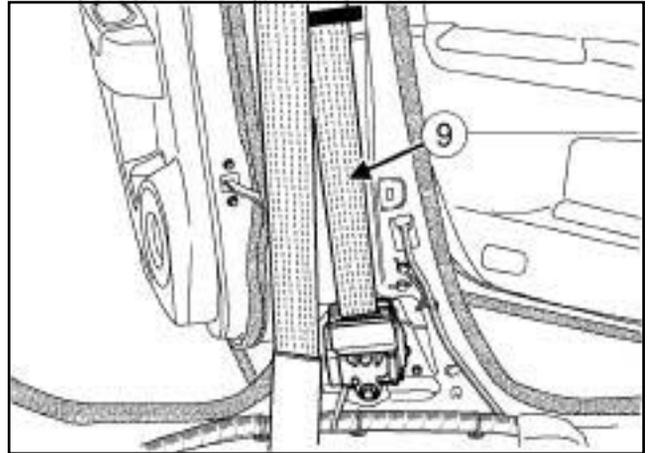
131748

### 8 - Rear seat belt buckles



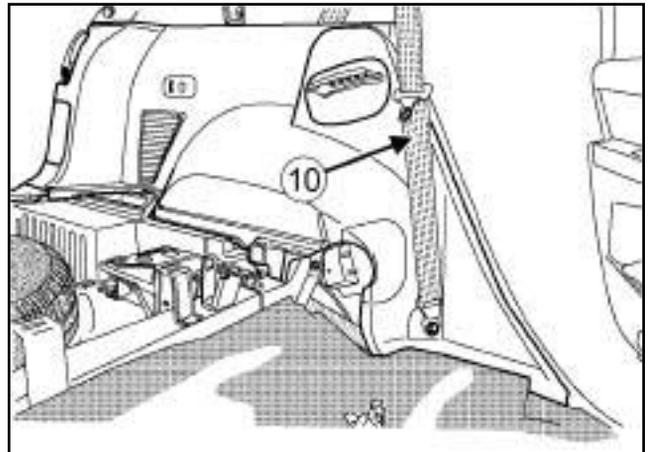
131749

### 9 - Front side seat belt



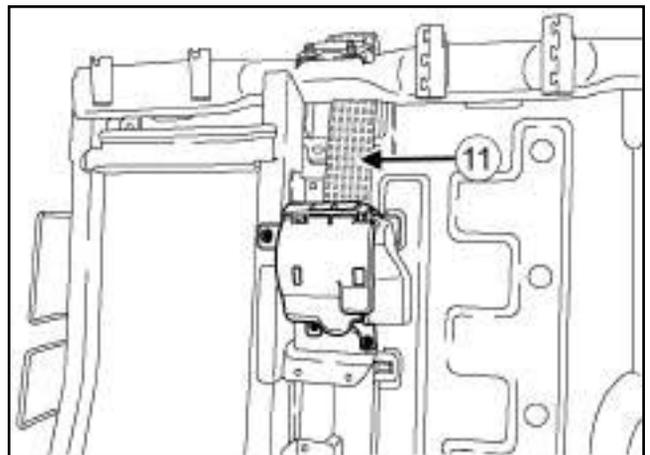
131750

### 10 - Rear side seat belt



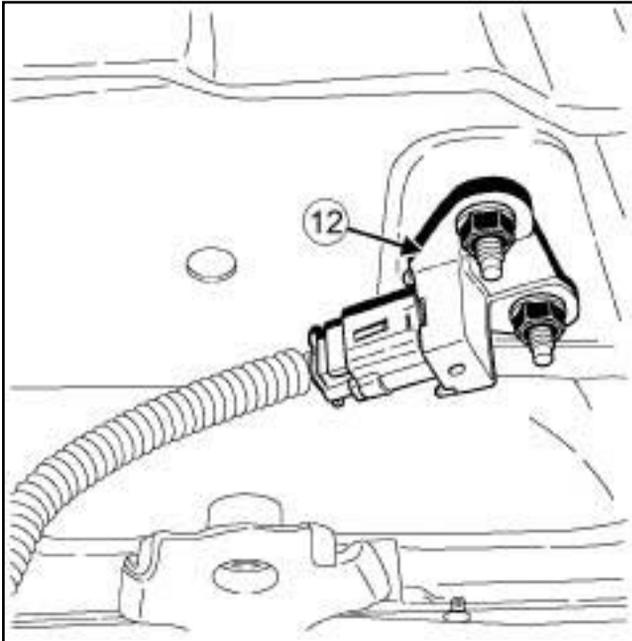
131751

### 11 - Rear centre seat belt



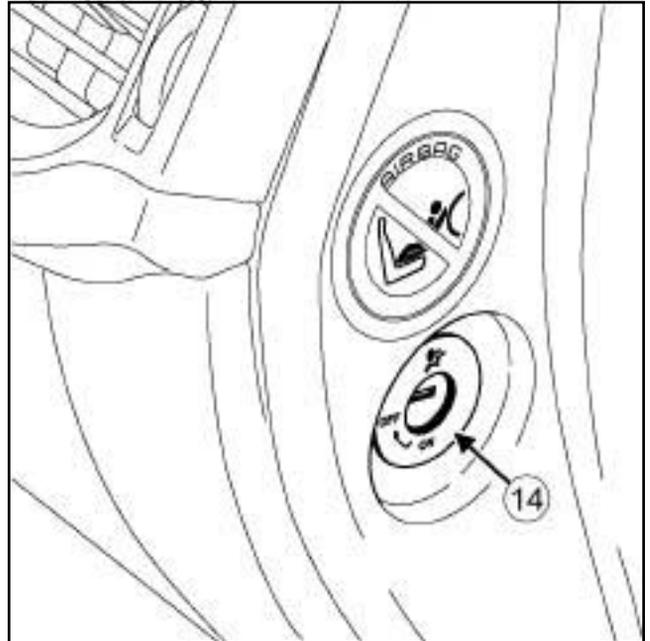
131752

12 - Side impact sensor



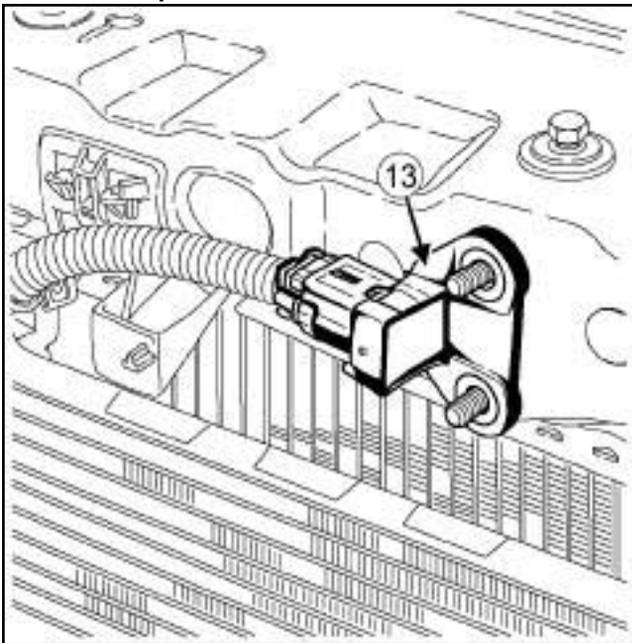
131753

14 - Inhibitor switch



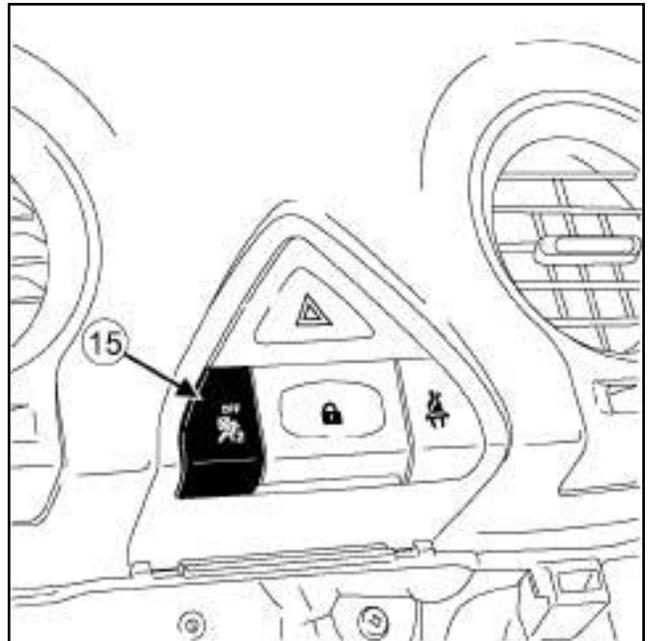
131755

13 - Front impact sensor



131754

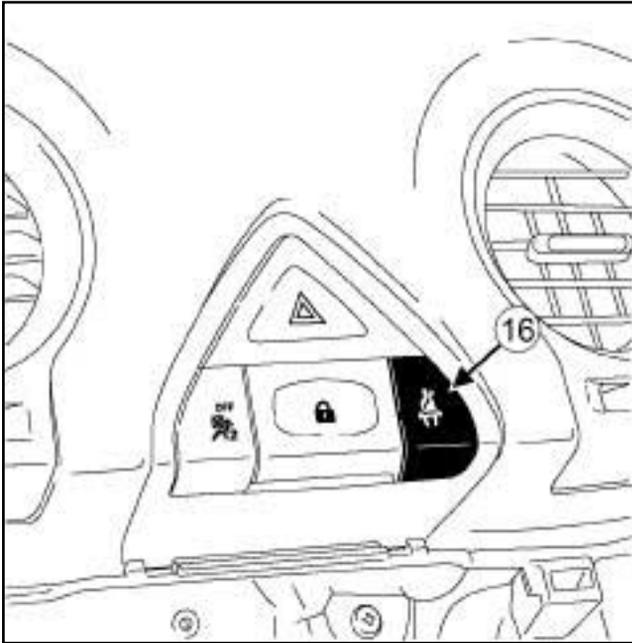
15 - Passenger front airbag inhibitor switch warning light



131757

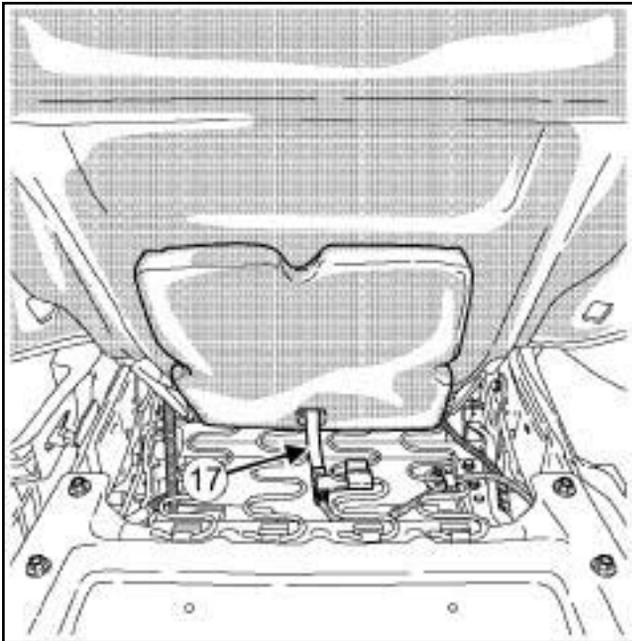
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### 16 - Passenger seat belt warning light



131756

### 17 - Passenger presence sensor



131758

To remove it (see **Passenger presence sensor cover: Removal - Refitting**) (59A, Safety equipment).

### Equipment required

Diagnostic tool

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

When an airbag or a pretensioner is triggered, the airbag computer is permanently locked and the « airbag fault » warning light on the instrument panel comes on.

The airbag computer must be replaced (certain components lose their nominal specifications after being subjected to the trigger energy)

#### 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.

#### 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 **88C, Air bag and Pretensioners, Airbags and pretensioners: Recycling - Destruction**, page **88C-7**).

#### IMPORTANT

In the event of a repair operation after an impact, the mounting bolts of the seat belts and seat belt buckles must always be replaced.

A visual inspection must be carried out on the pyrotechnic system mountings and the tightening torque must be checked.

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

- after an accident that did not trigger the systems,
- after theft or attempted theft of the vehicle,
- before selling a used vehicle.

### Special tooling required

<b>Ele. 1287</b>	Tool for destroying airbags and pretensioners.
<b>Ele. 1287-02</b>	Kit of 2 adapters for the air-bag and pretensioner destruction tool.

### 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-6**).

### 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.

### WARNING

- Each part is intended for a specific vehicle type and should not be fitted on another vehicle under any circumstances. The parts are not interchangeable.

- Do not trigger pretensioners which are to be returned under warranty because of a faulty stalk. This makes analysis of the part by the supplier impossible. Return the defective part to Techline in the packaging of the new part.

### WARNING

The destruction procedure cannot be carried out if local regulations require a special procedure which has been confirmed and published by the Fault finding, Repair and Procedures Department.

### Note:

If triggering is not possible (faulty ignition module) return the part to Techline.



131739

- It is essential to use the tool (**Ele. 1287**) and (**Ele. 1287-02**).
- Use a wiring connector kit **82 00 518 971**.
- Attach the wiring connectors **82 00 518 971** to the adapters (**Ele. 1287-02**) to obtain an adapter for each colour (green, orange, blue, etc.) (see **Wiring: Repair**) (Technical Note 6015A, 88A, Wiring).
- Use a battery to power the destruction tool.

### I - AIRBAGS

- 

#### Note:

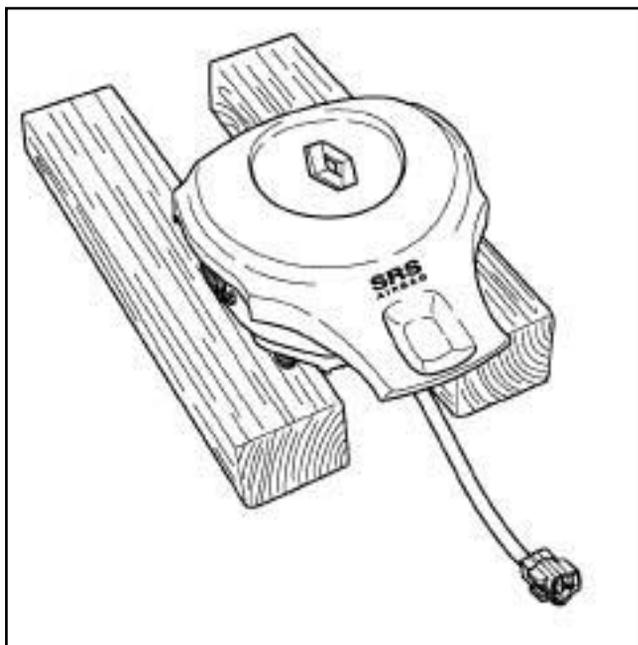
The airbags must be destroyed outside the workshop, in an area with sufficient space.

The airbags to be destroyed must be removed.

#### Note:

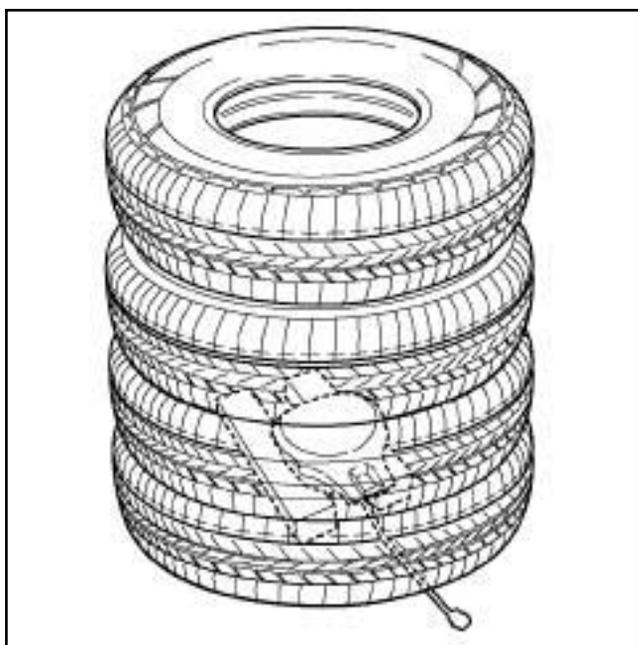
If the airbag has two levels of activation (i.e. it is fitted with two connectors), destroy both connectors.

- Prepare the adapter corresponding to the airbag to be destroyed.
- Connect:
  - the adapter to the destruction tool (**Ele. 1287**),
  - the adapter to the airbag.



131740

- Put the airbag on two wooden blocks.



131741

- The destruction procedure is carried out in a stack of old tyres.
- Make sure that the airbag deployment will not be hindered.
- Unwind the full length of the wiring for the tool, in order to distance it as far away as possible from the pyrotechnic component to be destroyed.

- Connect the two feed wires of the destruction tool (**Ele. 1287**) to a battery.

### IMPORTANT

To prevent any risk of an accident when destroying a pyrotechnic component, check that no-one is in the vicinity.

- Destroy the airbag by pressing the two push buttons on the tool simultaneously.

## II - PYROTECHNIC PRETENSIONERS AND INERTIA REELS

### 1 - Destruction of part fitted on the vehicle to be scrapped:

- Move the vehicle outside the workshop.
- Mark the adapter corresponding to the pyrotechnic component to be destroyed.
- Connect:
  - the destruction tool (**Ele. 1287**) to the adapter,
  - the adapter to the pyrotechnic component.
- Unwind the tool wiring fully, so that you are far enough away from the vehicle (approximately ten metres) when the device is triggered.
- Connect the two feed wires of the destruction tool (**Ele. 1287**) to a battery.

### IMPORTANT

To prevent any risk of an accident when destroying a pyrotechnic component, check that no-one is in the vicinity.

- Destroy the pyrotechnic component by pressing the two push buttons on the tool simultaneously.

### 2 - Destruction of part removed from the vehicle:

- Proceed in the same way as for an airbag (in a stack of old tyres).

# AIR BAG AND PRETENSIONERS

## Airbag computer: Removal - Refitting

# 88C

Tightening torques 	
airbag computer bolt (3)	7 N.m
airbag computer bolts (2)	25 N.m

### IMPORTANT

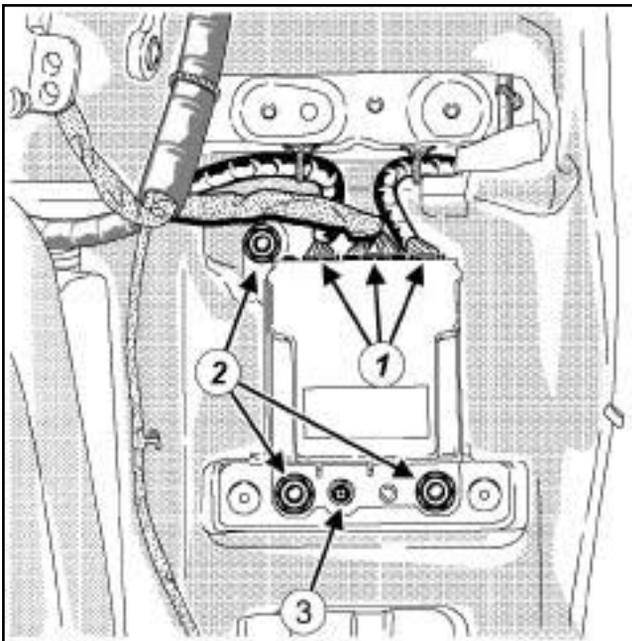
To prevent the pyrotechnic components from being permanently deactivated or triggered (airbags or pretensioners), wait for at least **3 min** after disconnecting the battery.

## REMOVAL

### I - REMOVAL PREPARATION OPERATION

- Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page 80A-3).
- Remove the centre console (see **Centre console: Removal - Refitting**) (57A, Interior equipment).

### II - OPERATION FOR REMOVAL OF PART CONCERNED



130870

- Disconnect the airbag computer connectors (1).
- Remove:
  - the airbag computer bolts (2),
  - the airbag computer bolt (3),
  - the airbag computer.

## REFITTING

### I - REFITTING OPERATION FOR PART CONCERNED

- Refit:
  - the airbag computer,
  - the airbag computer bolt,
  - the bolts from the airbag computer.
- Torque tighten:
  - the **airbag computer bolt (3) (7 N.m)**,
  - the **airbag computer bolts (2) (25 N.m)**,
- Connect the airbag computer connectors.

### 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-3).

# AIR BAG AND PRETENSIONERS

## Driver's frontal airbag: Removal - Refitting

# 88C

### IMPORTANT

To avoid any risk of damaging the systems, apply the instructions relating to safety and cleanliness and the operation recommendations before carrying out the repair (see **88C, Air bag and Pretensioners, Airbag and pretensioners: Precautions for the repair**, page **88C-6**).

## REMOVAL

### I - REMOVAL PREPARATION OPERATION

□

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

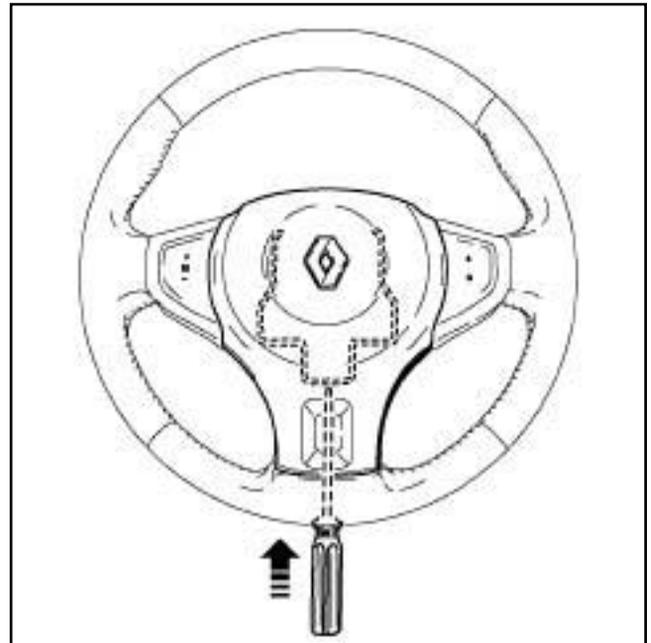
- Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**).

### II - OPERATION FOR REMOVAL OF PART CONCERNED

□

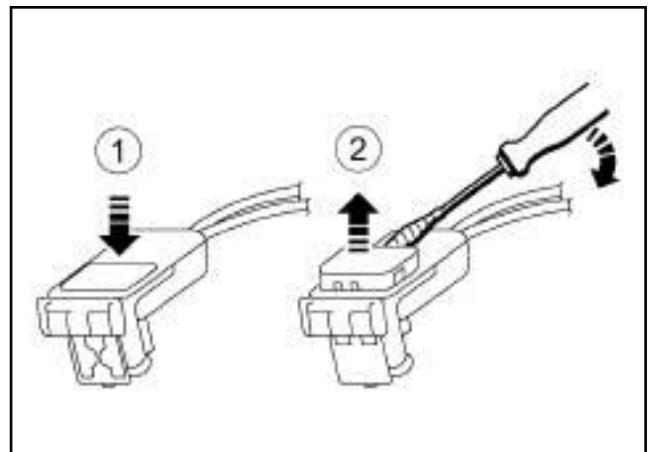
#### WARNING

To ensure the airbag is not damaged during removal, do not use a tool with a point or a sharp edge.



130965

- Insert a flat-blade screwdriver into the opening located behind the steering wheel.
- Unclip the driver's front airbag by pushing the flat-blade screwdriver upwards.



130966

□

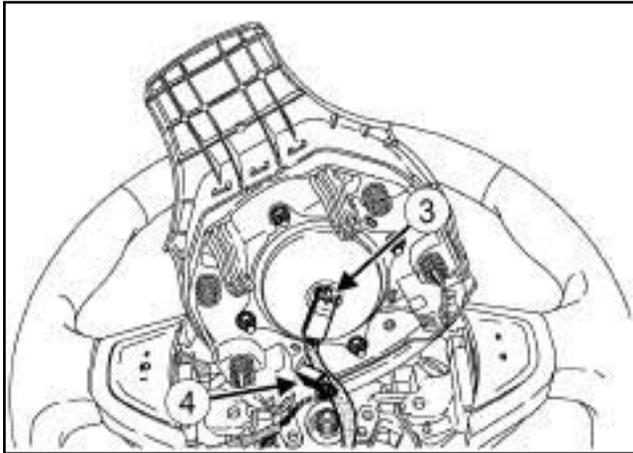
#### Note:

To disconnect the airbag connector, insert a flat-blade screwdriver wrapped in adhesive tape in the notch (1), lift the security device (2) and disconnect the connector.

# AIR BAG AND PRETENSIONERS

## Driver's frontal airbag: Removal - Refitting

# 88C



130967

- Disconnect:
  - the driver's front airbag connector (3) ,
  - the horn connector (4) .
- Remove the driver's front airbag.

### IMPORTANT

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

## 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-6**) .

### II - REFITTING OPERATION FOR PART CONCERNED

- Connect:
  - the horn connector,
  - the driver's front airbag connector.
- Fit the driver's front airbag in place.
- Clip the driver's front airbag on to the steering wheel.

### III - FINAL OPERATION.

- Connect the battery (see **80A, Battery, Battery: Removal - Refitting, page 80A-3**) .

### 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 **88C, Air bag and Pretensioners, Airbags and pretensioners: Recycling - Destruction, page 88C-7**) .

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## Passenger's frontal airbag: Removal - Refitting

### Tightening torques

passenger front airbag bolts	23 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-6**).

## REMOVAL

### I - REMOVAL PREPARATION OPERATION



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

- Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting, page 80A-3**).
- Remove the glovebox (see **Glovebox: Removal - Refitting**) (57A, Interior equipment).

### NAVIGATION AID 1 or NAVIGATION AID 2

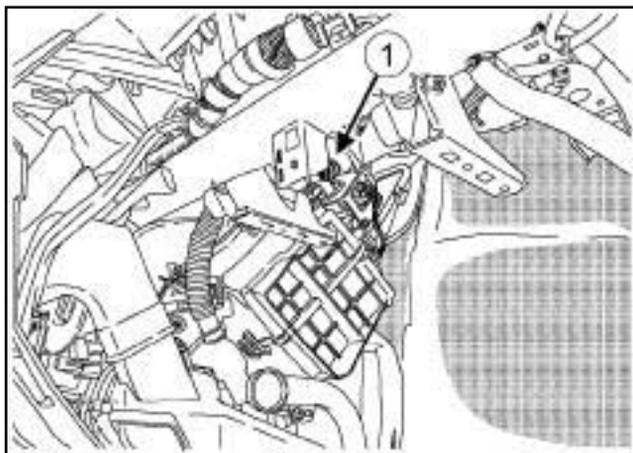
- Remove:
  - the navigation computer (see **83C, On-board telematics system, Navigation computer: Removal - Refitting, page 83C-3**)
  - the navigation interface unit (see **83C, On-board telematics system, Navigation interface unit: Removal - Refitting, page 83C-4**)

### II - OPERATION FOR REMOVAL OF PART CONCERNED



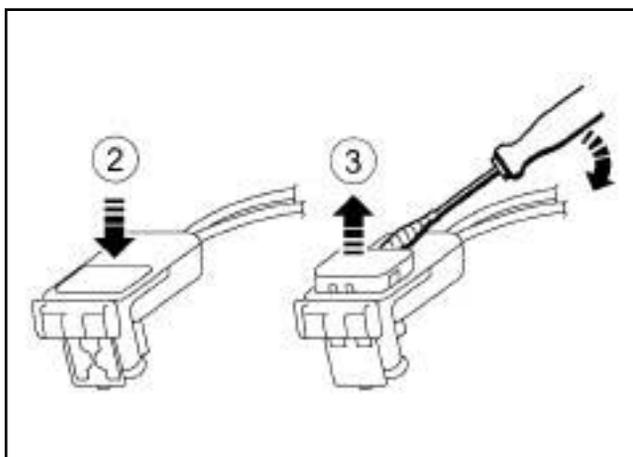
#### WARNING

To ensure the airbag is not damaged during removal, do not use a tool with a point or a sharp edge.



130871

- Remove the front passenger airbag bolt (1).



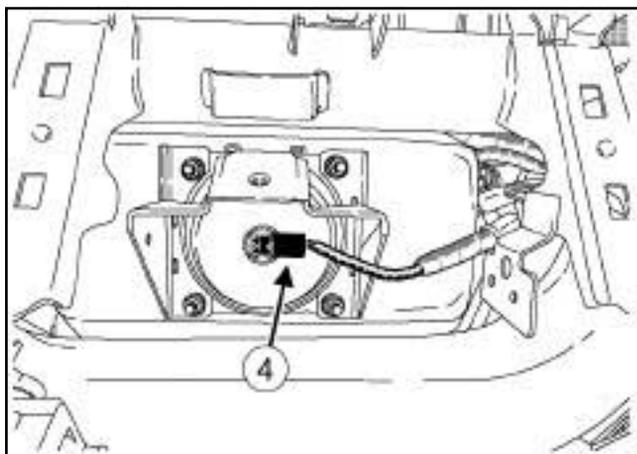
130872



#### Note:

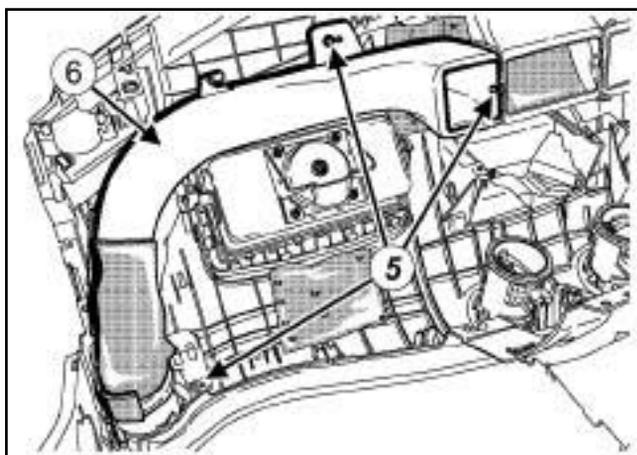
To disconnect the airbag connector, insert a flat-blade screwdriver wrapped in adhesive tape in the notch (2), lift the security device (3) and disconnect the connector.

## Passenger's frontal airbag: Removal - Refitting



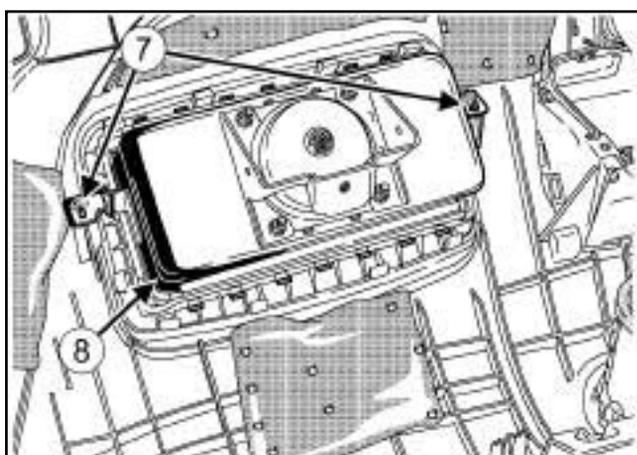
130873

- Disconnect the front passenger airbag connector (4).
- Remove the dashboard (see **Dashboard: Removal - Refitting** (57A, Interior equipment)).



130874

- Remove:
  - the front side air distribution duct bolts,
  - the front side air distribution duct.



130875

- Remove the front passenger airbag bolts (7).

- Detach the passenger front airbag (8) from the dashboard.
- Remove the passenger frontal airbag.

### IMPORTANT

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

## REFITTING

### I - REFITTING PREPARATION OPERATION

- Always replace the passenger front airbag bolts.

### 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-6).

### IMPORTANT

When the passenger front airbag is triggered, the consequent damage caused to the mountings always requires the dashboard to be replaced. Affix the label warning against fitting a rear-facing child seat on the front passenger seat to the passenger side of the dashboard.

### II - REFITTING OPERATION FOR PART CONCERNED

#### NAVIGATION AID 1 or NAVIGATION AID 2

- Refit:
  - the navigation interface unit (see **83C, On-board telematics system, Navigation interface unit: Removal - Refitting**, page 83C-4)
  - the navigation computer (see **83C, On-board telematics system, Navigation computer: Removal - Refitting**, page 83C-3)

- Refit:
  - the passenger front airbag to the dashboard,
  - new passenger front airbag bolts,
  - the front side air distribution duct,

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

- Connect the front passenger airbag connector.
- Refit the passenger front airbag bolt.
- Torque tighten the **passenger front airbag bolts (23 N.m)**.

### III - FINAL OPERATION

- Refit the glovebox (see **Glovebox: Removal - Refitting**) (57A, Interior equipment).
- Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**).

#### **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 **88C, Air bag and Pretensioners, Airbags and pretensioners: Recycling - Destruction**, page **88C-7**).

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

### Tightening torques

chest-level side airbag nuts	7 N.m
------------------------------	-------

The front (chest-level) side airbag is fitted to the backrest of each front seat on the door side.

When it is deployed, the airbag tears the module cover and the foam and detaches the trim.

### IMPORTANT

To avoid any risk of damaging the systems, apply the instructions relating to safety and cleanliness and the operation recommendations before carrying out the repair (see **88C, Air bag and Pretensioners, Airbag and pretensioners: Precautions for the repair, page 88C-6**).

## REMOVAL

### I - REMOVAL PREPARATION OPERATION

#### IMPORTANT

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

#### IMPORTANT

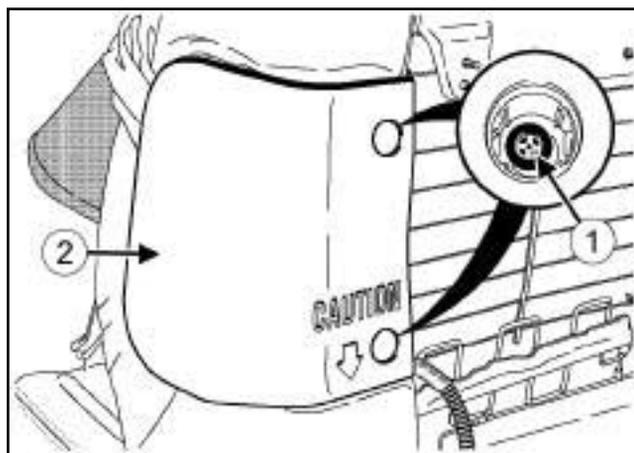
To avoid causing a fault or triggering a pyrotechnic component (airbags or pretensioners), wait for at least **3 minutes** after disconnecting the battery.

Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting, page 80A-3**).

Remove:

- the front seat (see **Complete front seat: Removal - Refitting**) (75A, Front seat frames and runners),
- the front seat belt stalk (see **88C, Air bag and Pretensioners, Front seat belt buckle: Removal - Refitting, page 88C-24**),
- the headrest guide (see **Front seat headrest guide: Removal - Refitting**) (79A, Seat accessories),
- the front seat backrest trim partially (see **Front seat base trim: Removal - Refitting**) (77A, Front seat trim).

### II - REMOVAL OF PART CONCERNED

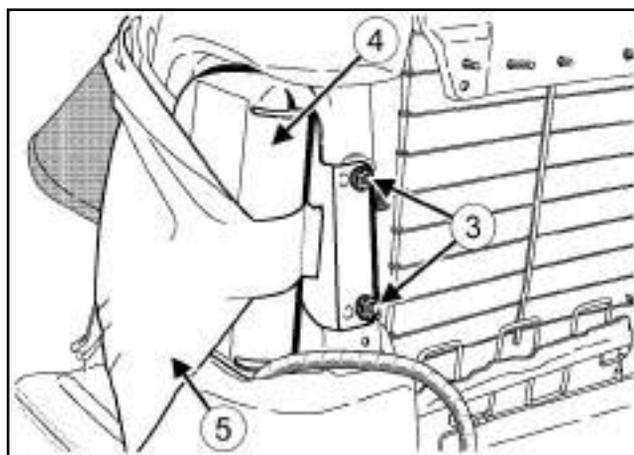


131737

Remove:

- the covers from the front (chest-level) side airbag cover bolts,
- the bolts (1) from the front (chest-level) side airbag cover,
- the cover (2) from the front (chest-level) side airbag.

Detach the clips from the front (chest-level) side airbag wiring underneath the seat.



131738

Remove the nuts (3) from the front (chest-level) side airbag.

Separate the front (chest-level) side airbag (4) from the seat backrest trim cover (5).

Remove:

- the front side (chest-level) airbag,
- the foam - trim assembly from the front seat backrest.

**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-6**).

**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 **88C, Air bag and Pretensioners, Airbags and pretensioners: Recycling - Destruction**, page **88C-7**).

- Always replace the nuts for the front (chest-level) side airbag.

**II - REFITTING PART CONCERNED**

- Refit:

- the foam - trim assembly for the front seat backrest,
- the front (chest-level) side airbag to the seat backrest trim cover,
- the new nuts for the front (chest-level) side airbag

- Torque tighten the **chest-level side airbag nuts (7 N.m)**.

**III - FINAL OPERATION.**

- Refit:

- the front seat backrest trim partially (see **Front seat base trim: Removal - Refitting**) (77A, Front seat trim),
- the headrest guide (see **Front seat headrest guide: Removal - Refitting**) (79A, Seat accessories),
- the front seat belt stalk (see **88C, Air bag and Pretensioners, Front seat belt buckle: Removal - Refitting**, page **88C-24**),
- the 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-3**).

# AIR BAG AND PRETENSIONERS

## Side curtain airbag: Removal - Refitting

# 88C

### Tightening torques

side curtain airbag bolts	11 N.m
---------------------------	--------

The side curtain airbag is mounted behind the headlining.

When inflating, the airbag becomes detached from the roof lining.

### 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, Airbag and pretensioners: Precautions for the repair**, page 88C-6) .

## REMOVAL

### I - REMOVAL PREPARATION OPERATION



#### IMPORTANT

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

- Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page 80A-3) .
- Remove the headlining (see **Headlining: Removal - Refitting**) (71A, Body internal trim).

### II - OPERATION FOR REMOVAL OF PART CONCERNED

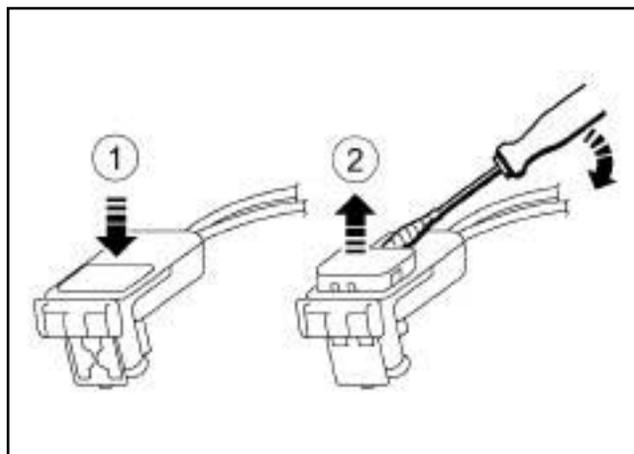


#### IMPORTANT

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

#### WARNING

To ensure the airbag is not damaged during removal, do not use a tool with a point or a sharp edge.

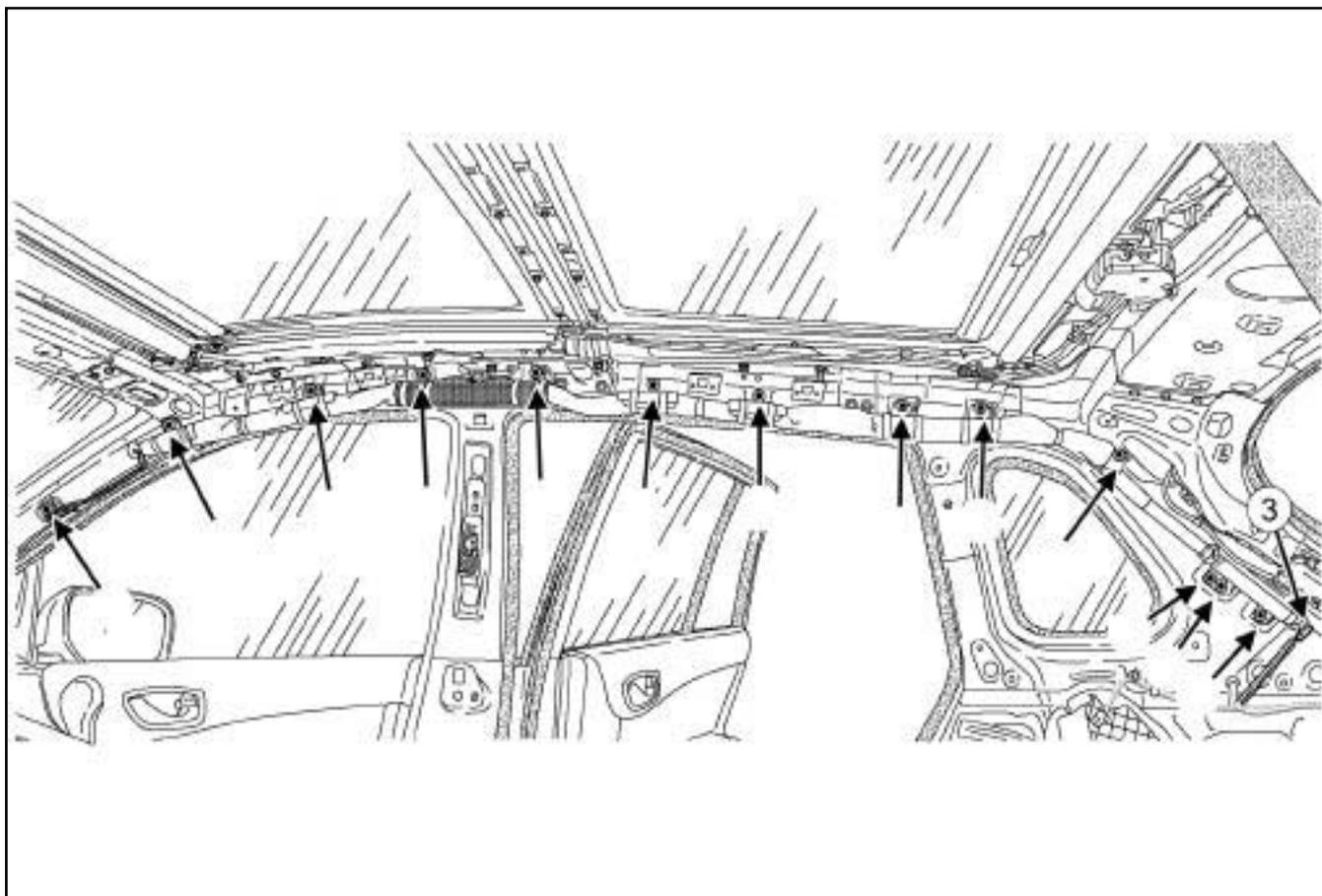


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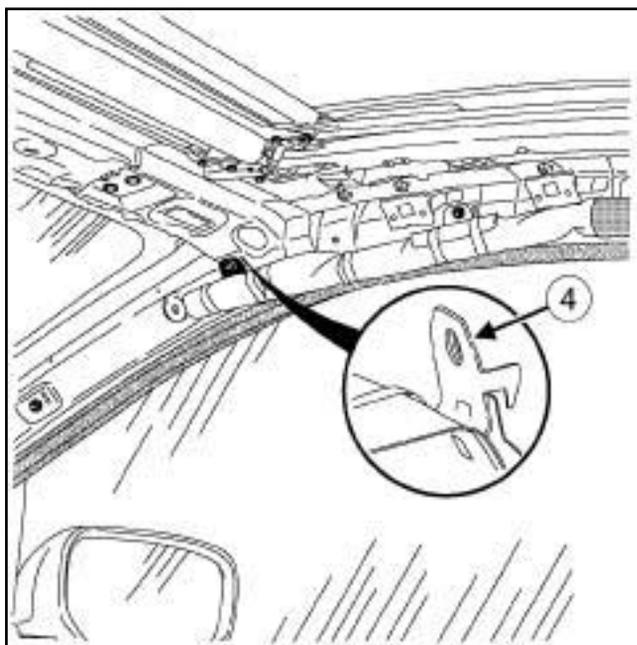
#### Note:

To disconnect the airbag connector, insert a flat-blade screwdriver wrapped in adhesive tape in the notch (1) , lift the security device (2) and disconnect the connector.



130877

- Disconnect the connector (3) from the side curtain airbag.
- Remove the side curtain airbag bolts.



130878

- Unclip the side curtain airbag mounting brackets (4).

- Remove the side curtain airbag.

### REFITTING

#### I - REFITTING PREPARATION OPERATION

- Always replace the side curtain airbag bolts.

#### IMPORTANT

In order to ensure that the side curtain airbag mountings are secure, never refit a side curtain airbag which has been removed.

#### 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-6**).

#### II - REFITTING OPERATION FOR PART CONCERNED

- Fit the side curtain airbag.

# AIR BAG AND PRETENSIONERS

## Side curtain airbag: Removal - Refitting

88C

- Attach the side curtain airbag mounting brackets.
- Refit the new side curtain airbag bolts.
- Torque tighten the **side curtain airbag bolts (11 N.m)**.
- Connect the side curtain airbag connector.
- Check that the side curtain airbag connector is correctly locked.

### III - FINAL OPERATION

- Refit the headlining (see **Headlining: Removal - Refitting**) (71A, Body internal trim).
- Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page 80A-3) .

#### 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 **88C, Air bag and Pretensioners, Airbags and pretensioners: Recycling - Destruction**, page 88C-7) .

# AIR BAG AND PRETENSIONERS

## Side impact sensor: Removal - Refitting

# 88C

### Tightening torques

side impact sensor nuts11	N.m
---------------------------	-----

### IMPORTANT

To avoid any risk of damaging the systems, apply the instructions relating to safety and cleanliness and the operation recommendations before carrying out the repair (see **88C, Air bag and Pretensioners, Airbag and pretensioners: Precautions for the repair**, page **88C-6**).

## REMOVAL

### I - REMOVAL PREPARATION OPERATION

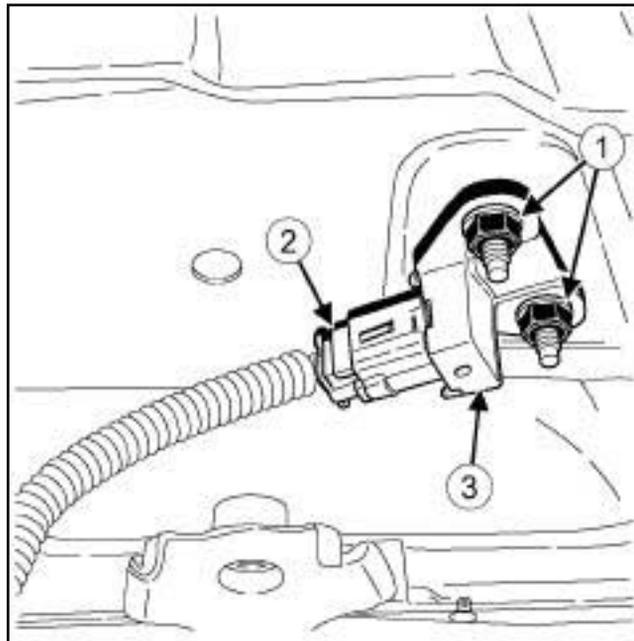


#### IMPORTANT

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

- Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**).
- Remove the front pyrotechnic inertia reel (see **88C, Air bag and Pretensioners, Front side seat belt: Removal - Refitting**, page **88C-27**).

### II - OPERATION FOR REMOVAL OF PART CONCERNED



130879

- Remove the nuts (1) from the side impact sensor.
- Disconnect the connector (2) from the side impact sensor.
- Remove the side impact sensor (3).

## REFITTING

### I - REFITTING PREPARATION OPERATION

- Always replace the side impact sensor nuts.

### II - REFITTING OPERATION FOR PART CONCERNED

- Refit:
  - the side impact sensor,
  - the new side impact sensor nuts.
- Torque tighten the **side impact sensor nuts11 (N.m)**.
- Connect the side impact sensor connector.

### III - FINAL OPERATION.

- Refit the front pyrotechnic inertia reel (see **88C, Air bag and Pretensioners, Front side seat belt: Removal - Refitting**, page **88C-27**).

# AIR BAG AND PRETENSIONERS

## Side impact sensor: Removal - Refitting

**88C**

- Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**) .

### **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 **88C, Air bag and Pretensioners, Airbags and pretensioners: Recycling - Destruction**, page **88C-7**) .

# AIR BAG AND PRETENSIONERS

## Inhibitor switch: Removal - Refitting

# 88C

### Special tooling required

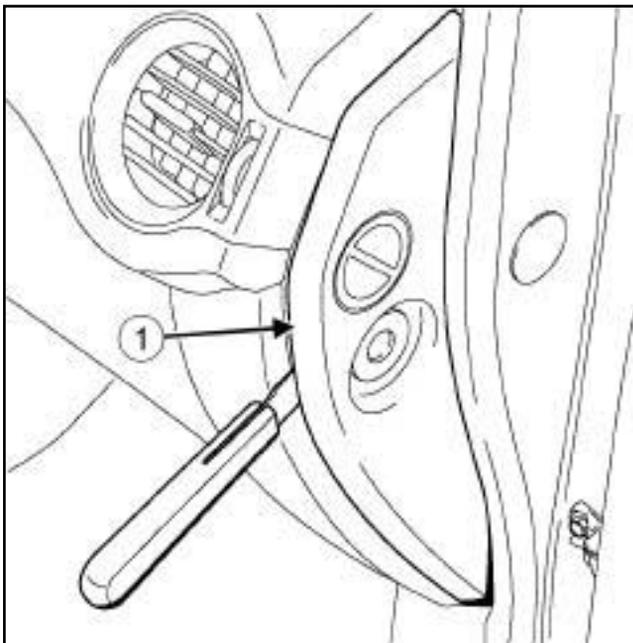
Car. 1363      Set of trim removal levers.

## REMOVAL

### I - REMOVAL PREPARATION OPERATION

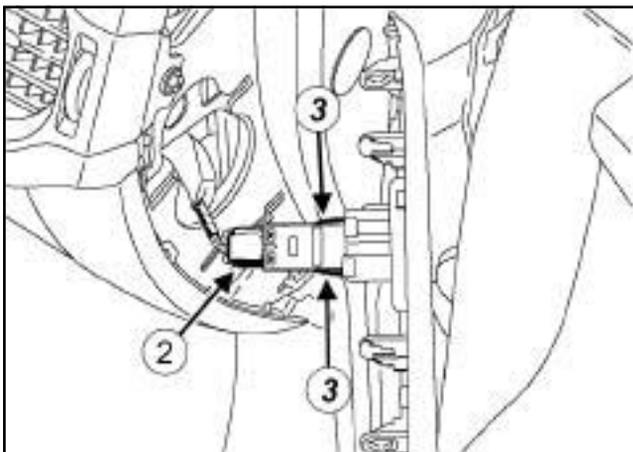
- Switch off the ignition.

### II - OPERATION FOR REMOVAL OF PART CONCERNED



130968

- Unclip the side panel (1) using the tool (Car. 1363).



131075

- Disconnect the inhibitor switch connector (2).
- Remove the inhibitor switch by pressing on the clips (3).

## REFITTING

### I - REFITTING OPERATION FOR PART CONCERNED

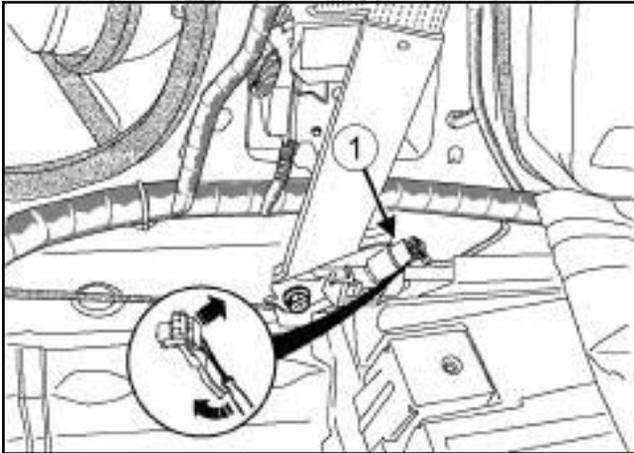
- Refit the inhibitor switch on the side panel.
- Connect inhibitor switch connector.
- Clip the side panel onto the dashboard.

### II - FINAL OPERATION.

- Check:
  - the operation of the deactivation switch,
  - the « airbag OFF » warning light on the instrument panel.

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## Front seat lap belt pretensioner: Removal - Refitting



130880

## Note:

The front side seat lap belt pretensioner (1) cannot be separated from the front side seat belt. In the event of a fault, replace the front side seat belt (see **88C, Air bag and Pretensioners, Front side seat belt: Removal - Refitting**, page 88C-27) .

# AIR BAG AND PRETENSIONERS

## Front seat belt buckle: Removal - Refitting

# 88C

### Tightening torques

driver's side front seat belt buckle bolt	49 N.m
passenger side front seat belt buckle bolt	49 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-6) .

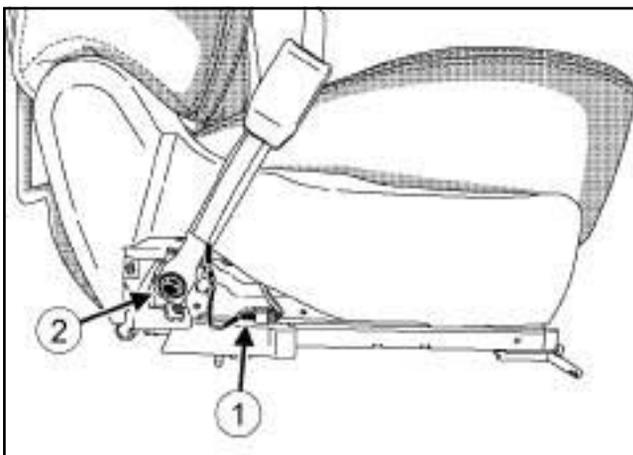
## REMOVAL

### I - REMOVAL PREPARATION OPERATION

- ❑ Remove the front seat (see **Complete front seat: Removal - Refitting**) (75A, Front seat frames and runners).

### II - OPERATION FOR REMOVAL OF PART CONCERNED

#### 1 - Driver's side front seat belt buckle

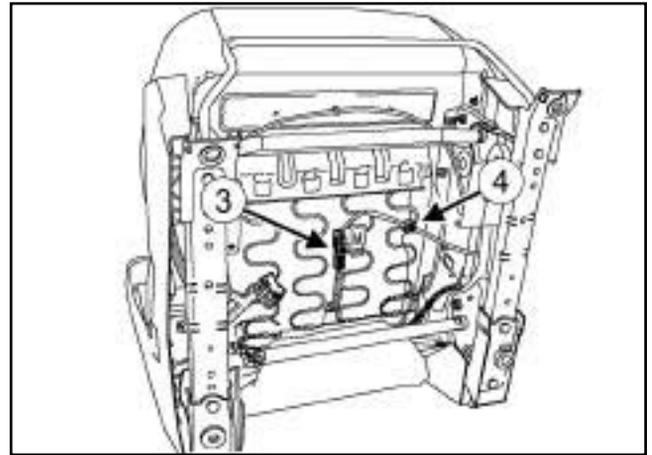


130881

- ❑ Disconnect the front seat belt buckle connector (1) .
- ❑ Remove:
  - the bolt (2) from the front seat belt buckle,
  - the front seat belt buckle.

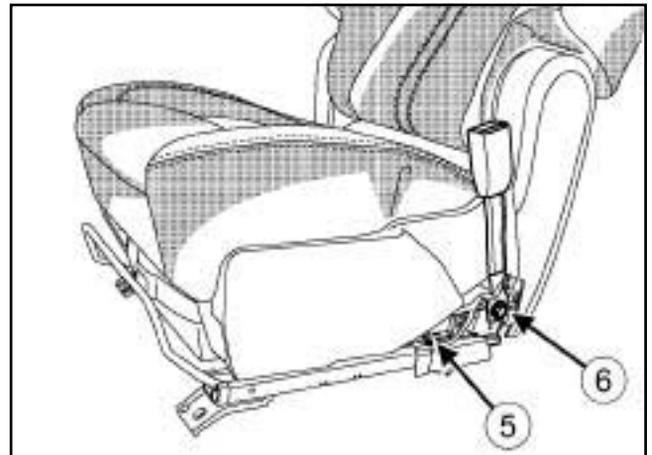
#### 2 - Passenger side front seat belt buckle

- ❑ Remove the flap and the storage compartment underneath the seat (see **Storage compartment and flap under the seat: Removal - Refitting**) (57A, Interior equipment).



130882

- ❑ Disconnect the connector (3) from the passenger presence sensor.
- ❑ Remove the clip (4) .



130883

- ❑ Disconnect the front seat belt buckle connector (5) .
- ❑ Remove:
  - the bolt (6) from the front seat belt buckle,
  - the front seat belt buckle.

# AIR BAG AND PRETENSIONERS

## Front seat belt buckle: Removal - Refitting

88C

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

##### 1 - Driver's side front seat belt buckle

- Refit the front seat belt buckle.
- Torque tighten the **driver's side front seat belt buckle bolt (49 N.m)**.
- Connect the front seat belt stalk connector.

##### 2 - Passenger side front seat belt buckle

- Refit the front seat belt buckle.
- Torque tighten the **passenger side front seat belt buckle bolt (49 N.m)**.
- Connect the front seat belt stalk connector.
- Refit the clip.
- Connect the connector for the passenger presence sensor.
- Refit the flap and the storage compartment underneath the seat (see **Storage compartment and flap under the seat: Removal - Refitting**) (57A, Interior equipment).

#### II - FINAL OPERATION.

- Refit the front seat (see **Complete front seat: Removal - Refitting**) (75A, Front seat frames and runners).

# AIR BAG AND PRETENSIONERS

## Rear seat belt buckle: Removal - Refitting

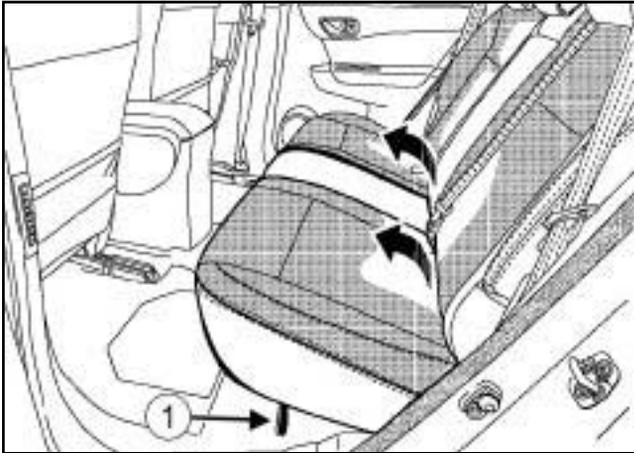
88C

### Tightening torques

rear seat belt buckle bolts	49 N.m
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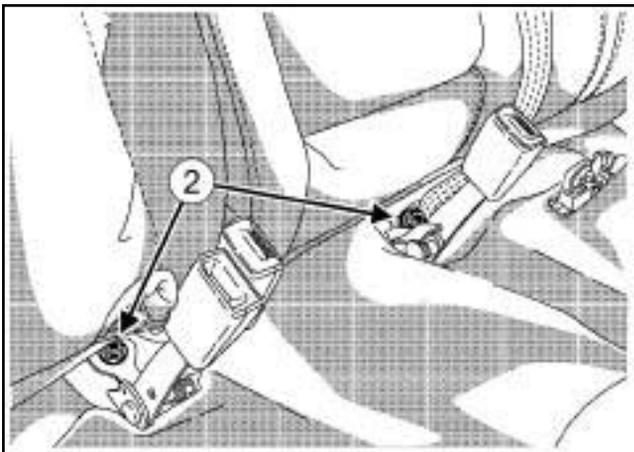
## REMOVAL

### OPERATION FOR REMOVAL OF PART CONCERNED



130884

- Pull the tabs (1) on each side of the bench seat.
- Fold the rear seat base down in the direction of the arrows.



130885

- Remove:
  - the bolts (2) from the rear seat belt buckles,
  - the rear seat belt buckles.

## REFITTING

### REFITTING OPERATION FOR PART CONCERNED

- Refit the rear seat belt buckles.
- Torque tighten the rear seat belt buckle bolts (49 N.m).
- Fit the rear seat base in place.

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# AIR BAG AND PRETENSIONERS

## Front side seat belt: Removal - Refitting

# 88C

Tightening torques 	
front lap belt pretensioner bolt	49 N.m
front pyrotechnic inertia reel bolt	49 N.m
front side seat belt	upper bolt 49 N.m
front pyrotechnic inertia reel bolt 49	N.m
front side seat belt lower bolt 49	N.m
front side seat belt	upper bolt 49 N.m

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

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

Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**).

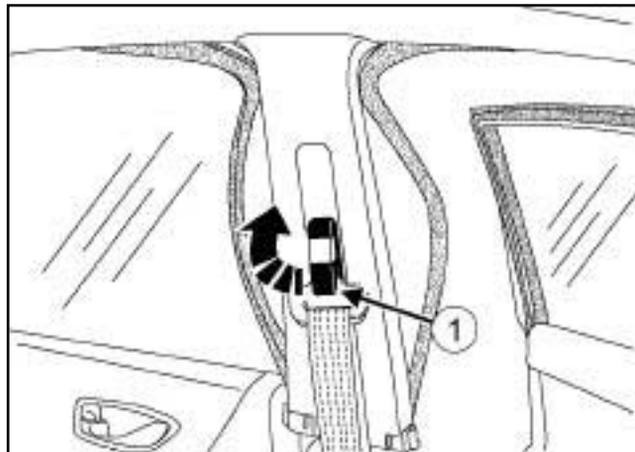
Remove:

- the front sill panel trim (see **Front door sill lining: Removal - Refitting**) (71A, Body internal trim),
- the rear inner sill trim (see **Rear door sill lining: Removal - Refitting**) (71A, Body internal trim),
- the B-pillar trim (see **B-pillar trim: Removal - Refitting**) (71A, Body internal trim).

Move the front seat as far forward as possible.

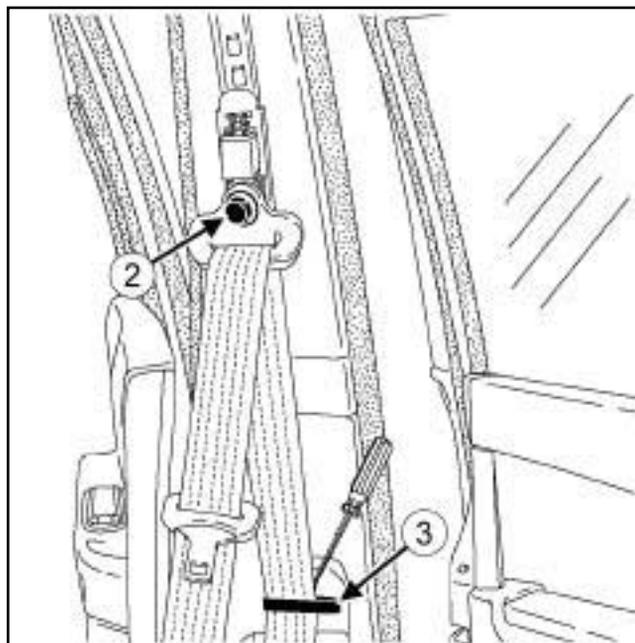
Partially pull up the edge of the floor carpet around the B-pillar trim.

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



130886

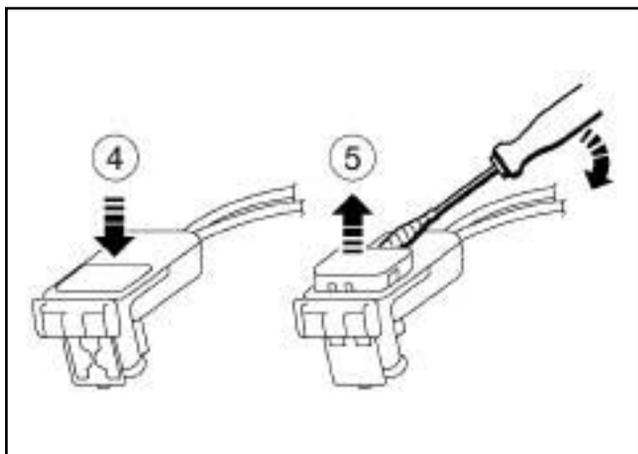
Remove cover (1).



130887

Remove the front side seat belt upper bolt (2).

Detach the front side seat belt guide (3).



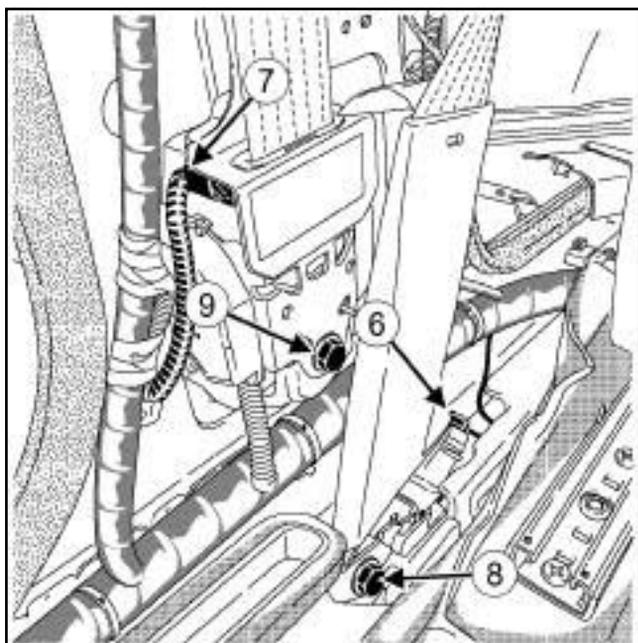
130876



### Note:

To disconnect the airbag connector, insert a flat-blade screwdriver wrapped in adhesive tape in the notch (4), lift the security device (5) and disconnect the connector.

### 1 - Driver's side front side seat belt



130889

□ Disconnect:

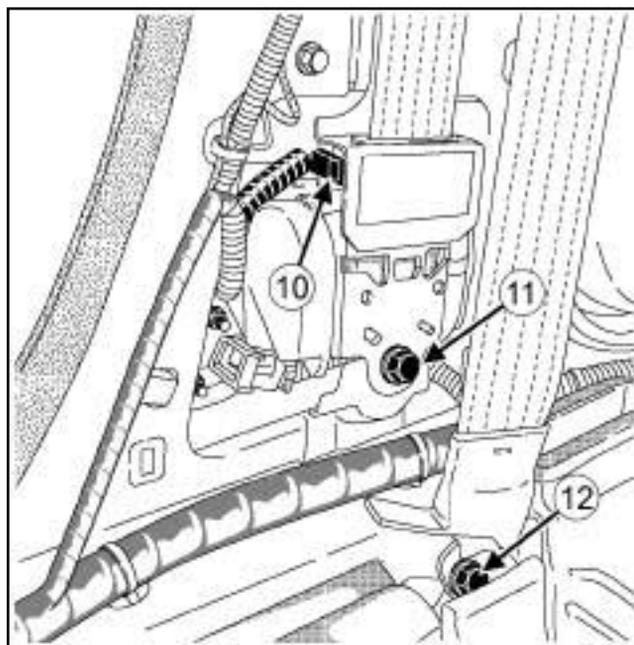
- the connector (6) for the front lap belt pretensioner,
- the connector (7) for the front pyrotechnic inertia reel.

□ Remove:

- the bolt (8) from the front lap belt pretensioner,
- the front lap belt pretensioner,

- the front pyrotechnic inertia reel bolt (9),
- the front pyrotechnic seat belt inertia reel,
- the « front side seat belt - front pyrotechnic inertia reel - front lap belt pretensioner » assembly.

### 2 - Passenger side front side seat belt



130890

- Disconnect the connector (10) from the front pyrotechnic inertia reel.

□ Remove:

- the front pyrotechnic inertia reel bolt (11),
- the lower bolt (12) for the front side seat belt,
- the « front side seat belt - front pyrotechnic inertia reel » assembly.

## REFITTING

### I - REFITTING OPERATION FOR PART CONCERNED

#### 1 - Driver's side front side seat belt

- Fit the « front side seat belt - front pyrotechnic inertia reel - front lap belt pretensioner » assembly in place.

□ Refit:

- the front lap belt pretensioner,
- the front lap belt pretensioner bolt,
- the front pyrotechnic seat belt inertia reel,
- the front pyrotechnic inertia reel bolt.

# AIR BAG AND PRETENSIONERS

## Front side seat belt: Removal - Refitting

# 88C

- Torque tighten:
  - the **front lap belt pretensioner bolt (49 N.m)**,
  - the **front pyrotechnic inertia reel bolt (49 N.m)**.
- Connect:
  - the connector for the front lap belt pretensioner,
  - the connector for the front pyrotechnic inertia reel.
- Connect the front pyrotechnic inertia reel connector.
- Refit:
  - the front side seat belt guide,
  - the upper bolt for the front side seatbelt.
- Torque tighten the **front side seat belt (upper bolt 49 N.m)**.
- Refit the cover.

### 2 - Passenger side front side seat belt

- Fit the « front side seat belt - front pyrotechnic inertia reel » assembly in place.
- Refit:
  - the front pyrotechnic seat belt inertia reel,
  - the front pyrotechnic inertia reel bolt,
  - the lower bolt for the front side seat belt.
- Torque tighten:
  - the **front pyrotechnic inertia reel bolt 49 (N.m)**,
  - the **front side seat belt lower bolt 49 (N.m)**.
- Connect the front pyrotechnic inertia reel connector.
- Refit:
  - the front side seat belt guide,
  - the upper bolt for the front side seatbelt.
- Torque tighten the **front side seat belt (upper bolt 49 N.m)**.
- Refit the cover.

### II - FINAL OPERATION.

- Position the floor carpet.
- Refit:
  - the B-pillar trim (see **B-pillar trim: Removal - Refitting**) (71A, Body internal trim),
  - the rear inner sill trim (see **Rear door sill lining: Removal - Refitting**) (71A, Body internal trim),
  - the front sill panel trim (see **Front door sill lining: Removal - Refitting**) (71A, Body internal trim).

- Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**) .

#### 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 **88C, Air bag and Pretensioners, Airbags and pretensioners: Recycling - Destruction**, page **88C-7**) .

# AIR BAG AND PRETENSIONERS

## Rear side seat belt: Removal - Refitting

# 88C

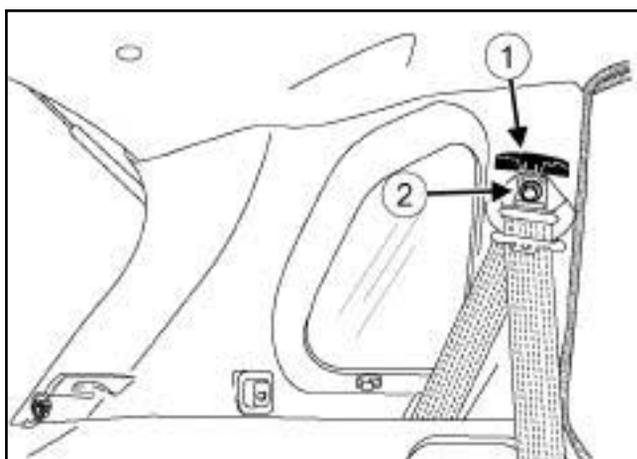
Tightening torques 	
rear side seat belt auto-matic inertia reel bolt	49 N.m
rear side seat belt lower bolt	49 N.m
rear side seat belt upper bolt	49 N.m

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

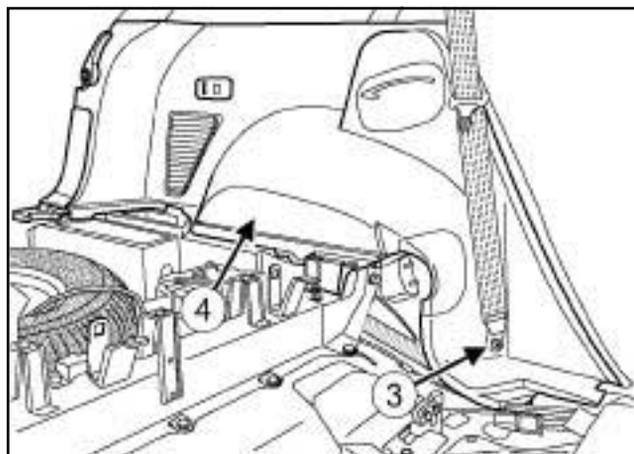
- Remove:
  - the rear parcel shelf (see **Rear parcel shelf: Removal - Refitting**) (57A, Interior equipment),
  - the rear inner sill trim (see **Rear door sill lining: Removal - Refitting**) (71A, Body internal trim),
  - the luggage compartment floor trim (see **Luggage compartment floor lining: Removal - Refitting**) (71A, Body internal trim),
  - the rear panel trim (see **Rear end panel lining: Removal - Refitting**) (71A, Body internal trim).

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



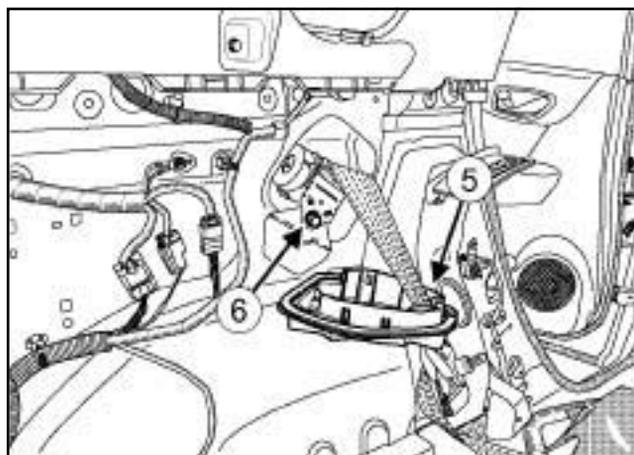
130891

- Open the cover (1) of the rear side seat belt upper bolt.
- Remove the rear side seat belt upper bolt (2).



130892

- Remove:
  - the cover of the rear side seat belt lower bolt,
  - the rear side seat belt lower bolt (3),
  - the rear pillar lower trim (4) (see **C-pillar lower trim: Removal - Refitting**) (71A, Body internal trim).



130893

- Remove:
  - the rear side seat belt cover (5),
  - the rear side seat belt automatic inertia reel bolt (6),
  - the « rear side seat belt - rear side seat belt automatic inertia reel » assembly.

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

- Fit the « rear side seat belt - rear side seat belt automatic inertia reel » assembly in place.

# AIR BAG AND PRETENSIONERS

## Rear side seat belt: Removal - Refitting

88C

- Refit:
  - the rear side seat belt automatic inertia reel bolt,
  - the rear side seat belt cover.
- Torque tighten the **rear side seat belt automatic inertia reel bolt (49 N.m)**.
- Refit:
  - the lower trim of the C-pillar (see **C-pillar lower trim: Removal - Refitting**) (71A, Body internal trim),
  - the rear side seat belt lower bolt.
- Torque tighten the **rear side seat belt lower bolt (49 N.m)**.
- Refit:
  - the cover of the rear side seat belt lower bolt,
  - the rear side seat belt upper bolt.
- Torque tighten the **rear side seat belt upper bolt (49 N.m)**.
- Refit the cover of the rear side seat belt upper bolt.

### II - FINAL OPERATION.

- Refit:
  - the rear panel trim (see **Rear end panel lining: Removal - Refitting**) (71A, Body internal trim),
  - the luggage compartment floor trim (see **Luggage compartment floor lining: Removal - Refitting**) (71A, Body internal trim),
  - the rear inner sill trim (see **Rear door sill lining: Removal - Refitting**) (71A, Body internal trim),
  - the rear parcel shelf (see **Rear parcel shelf: Removal - Refitting**) (57A, Interior equipment).

# AIR BAG AND PRETENSIONERS

## Rear centre seat belt: Removal - Refitting

# 88C

### Tightening torques

rear centre seat belt automatic inertia reel bolt	49 N.m
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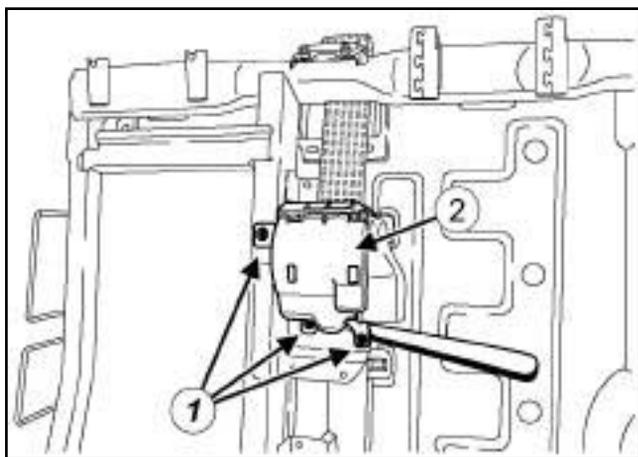
## REMOVAL

### I - REMOVAL PREPARATION OPERATION

#### □ Remove:

- the headrests from the rear seats,
- the rear centre armrest (see **Rear centre armrest: Removal - Refitting**) (79A, Seat accessories),
- the rear seat backrest (see **Complete rear seat: Removal - Refitting**) (76A, Rear seat frames and runners),
- the rear seat backrest trim (see **1/3 and 2/3 rear bench seatback trim: Removal - Refitting**) (78A, Rear seat trim).

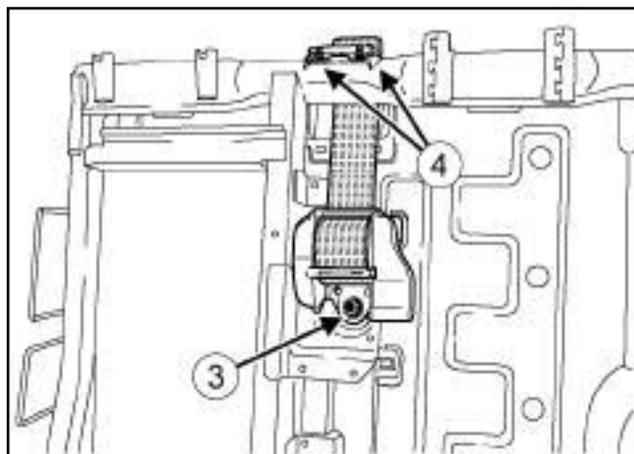
### II - OPERATION FOR REMOVAL OF PART CONCERNED



130894

#### □ Remove:

- the clips (1) ,
- the rear centre seat belt automatic inertia reel cover (2) .



130895

#### □ Remove:

- the rear centre seat belt automatic inertia reel bolt (3) ,
- the nuts (4) for the rear centre seat belt guide,
- the « rear centre seat belt - rear centre seat belt automatic inertia reel » assembly.

## REFITTING

### I - REFITTING OPERATION FOR PART CONCERNED

- #### □ Fit the « rear centre seat belt - rear centre seat belt automatic inertia reel » assembly in place.

#### □ Refit:

- the rear centre seat belt automatic inertia reel bolt,
- the nuts for the rear centre seat belt guide.

- #### □ Torque tighten the rear centre seat belt automatic inertia reel bolt (49 N.m).

#### □ Refit:

- the rear centre seat belt automatic inertia reel cover
- the clips.

### II - FINAL OPERATION.

#### □ Refit:

- the rear seat backrest trim (see **1/3 and 2/3 rear bench seatback trim: Removal - Refitting**) (78A, Rear seat trim),
- the rear seat backrest (see **Complete rear seat: Removal - Refitting**) (76A, Rear seat frames and runners),
- the rear centre armrest (see **Rear centre armrest: Removal - Refitting**) (79A, Seat accessories),

# AIR BAG AND PRETENSIONERS

## Rear centre seat belt: Removal - Refitting

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**88C**

- the rear seat headrests.

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### Special tooling required

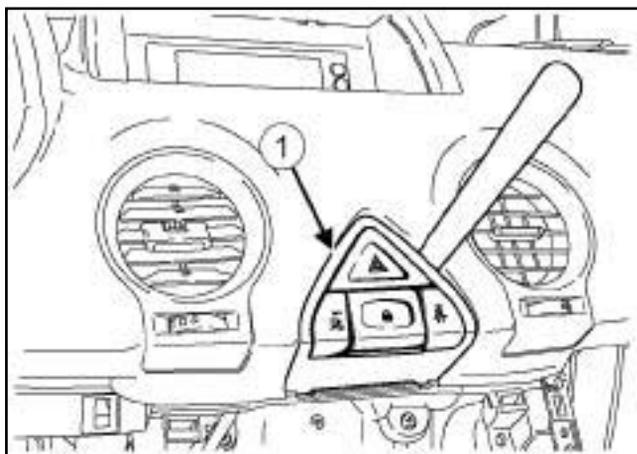
Car. 1363 Set of trim removal levers.

## REMOVAL

### I - REMOVAL PREPARATION OPERATION

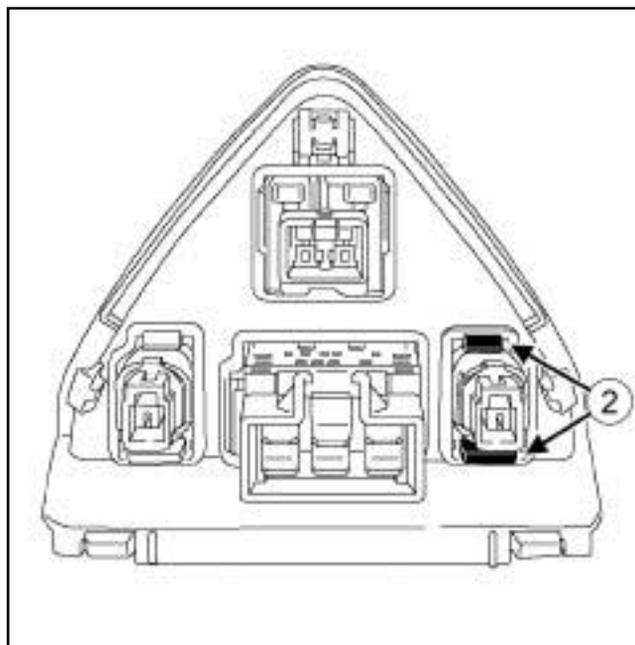
- Remove the control panel (see **Control panel: Removal - Refitting**) (61A, Heating).

### II - OPERATION FOR REMOVAL OF PART CONCERNED



131494

- Remove the hazard warning light switches and the central locking switches (1) using the tool (**Car. 1363**).
- Disconnect the connectors.



131495

- Unclip the clips (2) on both sides.
- Remove the passenger front airbag deactivation switch warning light.

## REFITTING

### I - REFITTING OPERATION FOR PART CONCERNED

- Refit the passenger front airbag deactivation switch warning light.
- Connect the connectors.
- Refit the hazard warning light switches and the central locking switches.

### II - FINAL OPERATION.

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

## Seat belt reminder warning light: Removal - Refitting

### Special tooling required

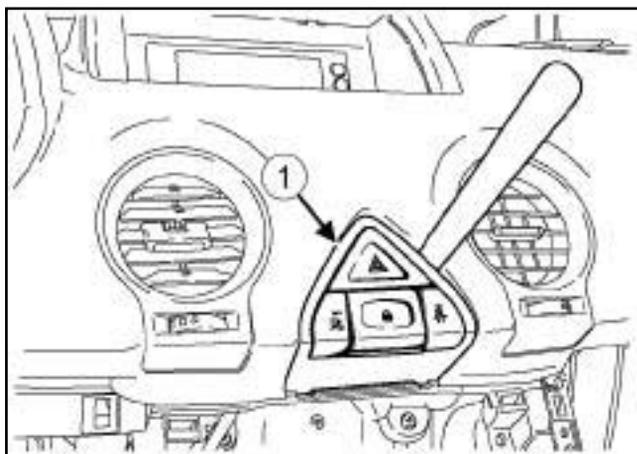
Car. 1363 Set of trim removal levers.

### REMOVAL

#### I - REMOVAL PREPARATION OPERATION

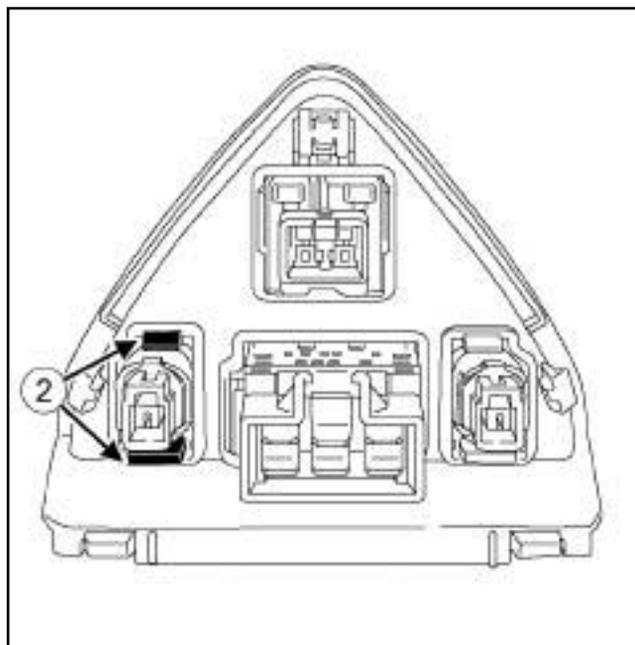
- Remove the control panel (see **Control panel: Removal - Refitting**) (61A, Heating).

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



131496

- Remove the hazard warning light switches and the central locking switches (1) using the tool (**Car. 1363**).
- Disconnect the connectors.



131497

- Unclip the clips (2) on both sides.
- Remove the passenger seat belt warning light.

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

- Refit the passenger seat belt warning light.
- Connect the connectors.
- Refit the hazard warning light switches and the central locking switches.

#### II - FINAL OPERATION.

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

# AIR BAG AND PRETENSIONERS

## Front impact sensor: Removal - Refitting

# 88C

### Tightening torques

front impact sensor nuts	11 N.m
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### IMPORTANT

To avoid any risk of damaging the systems, apply the instructions relating to safety and cleanliness and the operation recommendations before carrying out the repair (see **88C, Air bag and Pretensioners, Airbag and pretensioners: Precautions for the repair**, page **88C-6**).

### 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 **88C, Air bag and Pretensioners, Airbags and pretensioners: Recycling - Destruction**, page **88C-7**).

## REMOVAL

### I - REMOVAL PREPARATION OPERATION

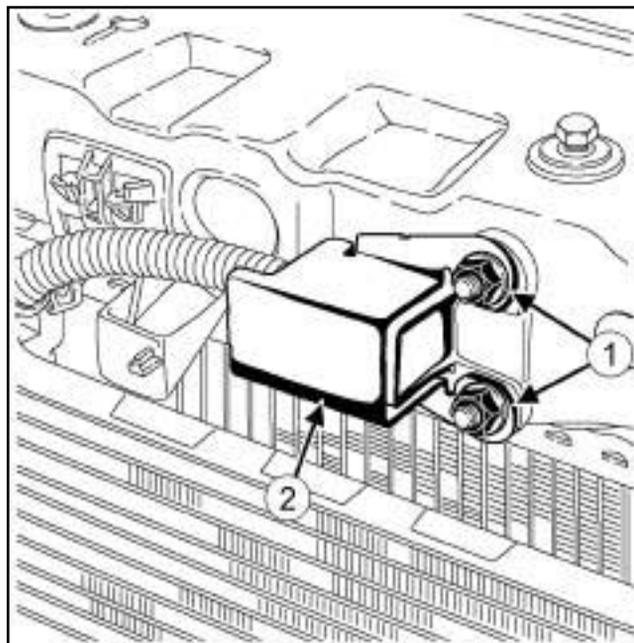
#### IMPORTANT

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

Disconnect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**).

Remove the front bumper (see **Front bumper: Removal - Refitting**) (55A, Exterior protection).

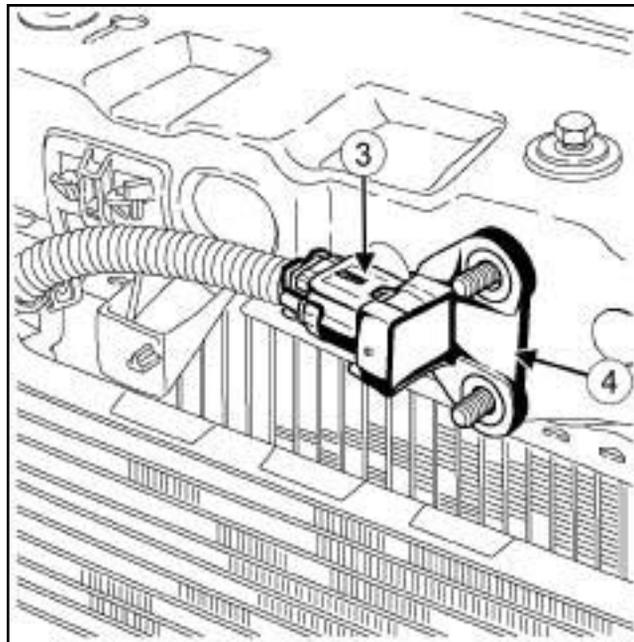
### II - REMOVAL OF PART CONCERNED



131383

Remove:

- the front impact sensor nuts (1),
- the front impact sensor cover (2).



131384

Disconnect the front impact sensor connector (3).

Remove the front impact sensor (4).

## REFITTING

### I - REFITTING PREPARATION OPERATION

Always replace the front impact sensor nuts.

# AIR BAG AND PRETENSIONERS

## Front impact sensor: Removal - Refitting

88C

### II - REFITTING PART CONCERNED

- Refit the front impact sensor.
- Connect the front impact sensor connector.
- Refit:
  - the front impact sensor cover,
  - the front impact sensor nuts.
- Torque tighten the **front impact sensor nuts (11 N.m)**.

### III - FINAL OPERATION.

- Refit the front bumper (see **Front bumper: Removal - Refitting**) (55A, Exterior protection).
- Connect the battery (see **80A, Battery, Battery: Removal - Refitting**, page **80A-3**) .

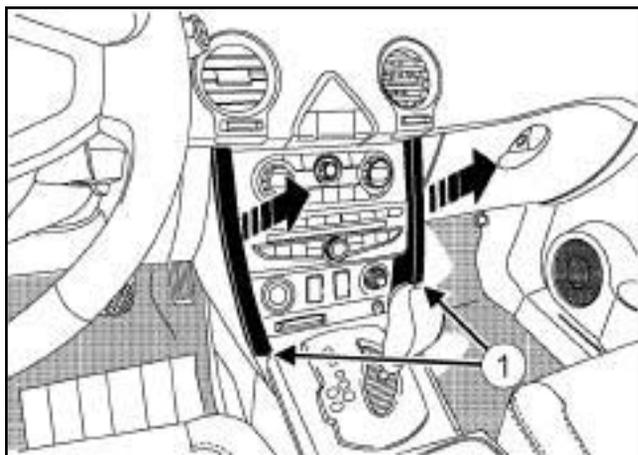
# DRIVER'S POSITION

## Cigarette lighter: Removal - Refitting

# 88D

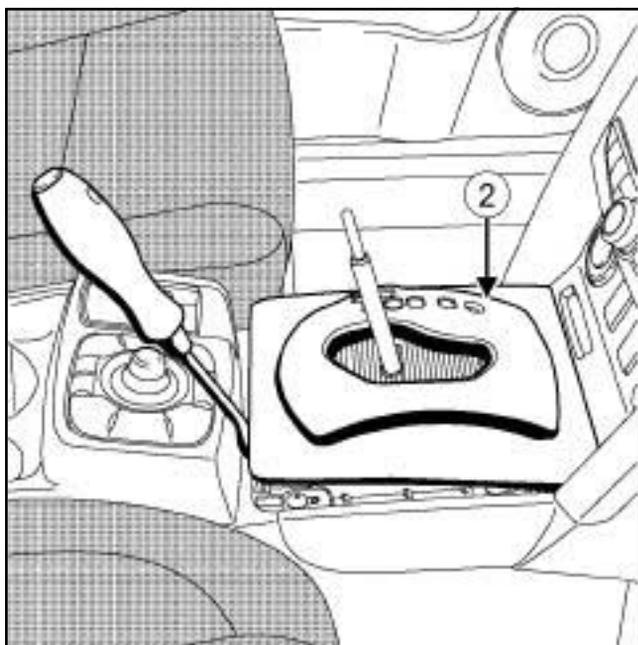
### REMOVAL

#### I - REMOVAL PREPARATION OPERATION



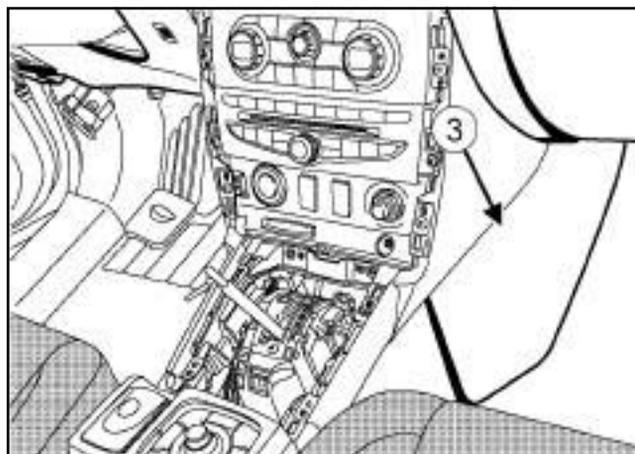
130758

- ❑ Remove the centre front panel side trim (1) .



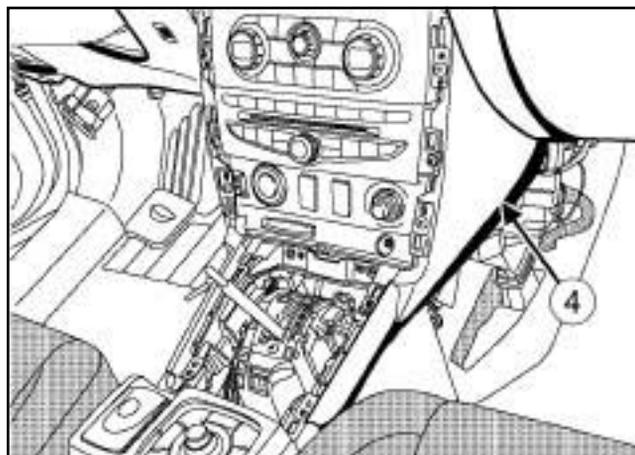
131579

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



131580

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



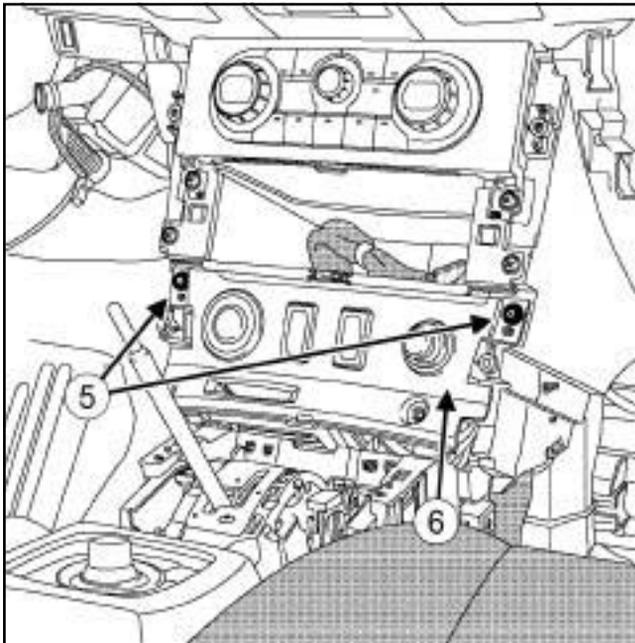
131581

- ❑ Remove:
  - the lower trims (4) from the centre panel on both sides,
  - the CD multi-changer (see **86A, Radio, CD changer: Removal - Refitting**, page 86A-14) ,
  - the radio (see **86A, Radio, Radio: Removal - Refitting**, page 86A-4) .

# DRIVER'S POSITION

## Cigarette lighter: Removal - Refitting

# 88D

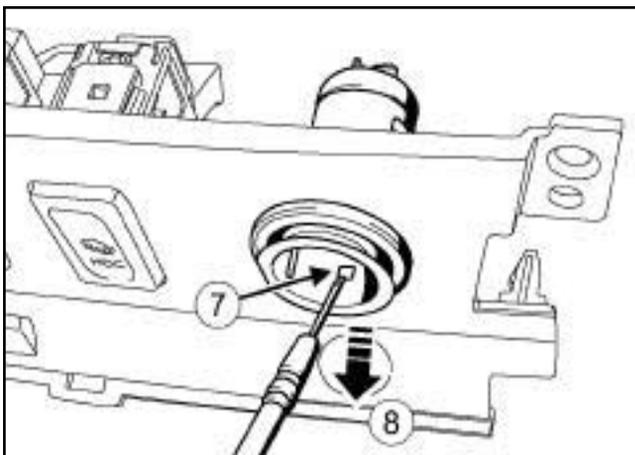


131582

- ❑ Remove:
  - the starter control panel bolts (5) ,
  - the starter control panel (6) .
- ❑ Disconnect the connectors.

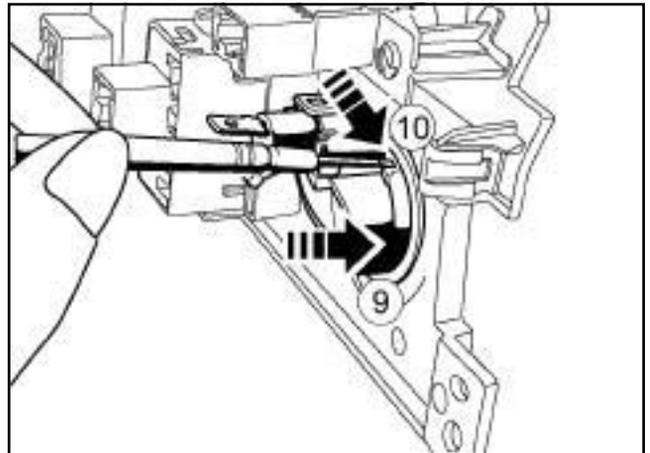
### II - OPERATION FOR REMOVAL OF PART CONCERNED

- ❑ Remove the cigarette lighter.



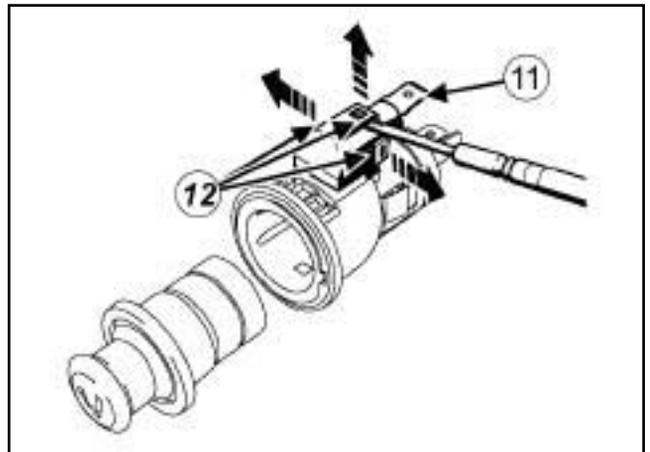
132546

- ❑ Keep the plastic support unlocked at (7) using a small flat-blade screwdriver.
- ❑ Remove the cigarette lighter support in the direction of (8) .



132547

- ❑ Remove the cigarette lighter socket in the direction of (9) by moving it in the direction of (10) using a small flat-blade screwdriver.



132548

- ❑ Unclip the bulb support (11) by pulling on the clips (12) using a flat-blade screwdriver.

### REFITTING

#### I - REFITTING OPERATION FOR PART CONCERNED

- ❑ Clip on the bulb mounting.
- ❑ Refit:
  - the cigarette lighter socket on the fascia panel,
  - the cigarette lighter mounting,
  - the cigarette lighter.

#### II - FINAL OPERATION.

- ❑ Connect the connectors.
- ❑ Refit:
  - the starter control panel,

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# DRIVER'S POSITION

## Cigarette lighter: Removal - Refitting

88D

- the starter control panel bolts,
- the radio (see **86A, Radio, Radio: Removal - Refitting**, page **86A-4**),
- the CD multi-changer (see **86A, Radio, CD changer: Removal - Refitting**, page **86A-14**),
- the centre panel lower trims on both sides,
- the dashboard lower cover on the driver's side (see **Dashboard: Removal - Refitting**) (57A, Interior equipment),
- the glovebox (see **Glovebox: Removal - Refitting**) (57A, Interior equipment),
- the centre panel lower covers on both sides,
- the gear lever plate (see **Centre console: Removal - Refitting**) (57A, Interior equipment),
- the centre front panel side trim.