RENAULT

8 Electrical equipment

- 80A BATTERY
- 80B HEADLIGHTS
- 81A REAR LIGHTING
- 81B INTERIOR LIGHTING
- 81C FUSES
- 82A ENGINE IMMOBILISER
- 82B HORN
- 83A INSTRUMENT PANEL
- 83D CRUISE CONTROL
- 84A CONTROL SIGNALS
- 85A WIPING WASHING
 - X44

JUNE 2009

EDITION ANGLAISE

"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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86A RADIO

- **86B** CAR PHONE
- PASSENGER COMPARTMENT CONNECTION
 UNIT
- 87C OPENING ELEMENT MANAGEMENT
- 87D ELECTRIC WINDOWS SUNROOF
- 87F PARKING DISTANCE CONTROL
- 88A WIRING HARNESS
- 88C AIR BAG AND PRETENSIONERS
- **BRIVER'S POSITION**

X44

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TWINGO - Section 8

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I - SAFETY

1 - DANGER: RISK FROM ACID LINKED TO HANDLING

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

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

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

IMPORTANT

A battery contains sulphuric acid, a dangerous substance.

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

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

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

IMPORTANT

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

WARNING

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

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

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

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

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

IMPORTANT

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

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

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

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

II - GENERAL RECOMMENDATIONS

WARNING

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

WARNING

Before disconnecting the battery:

- wait for the motor-driven fan assembly to stop,

- wait for the computer to finish saving (1 minute).

WARNING

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

BATTERY Battery: Removal - Refitting



Tightening torques	\bigtriangledown
battery bracket bolt	12 N.m
positive battery terminal nut	8 N.m
stud nut on the positive battery terminal	12 N.m
negative battery termi- nal nut	8 N.m
stud nut on the nega- tive battery terminal	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.

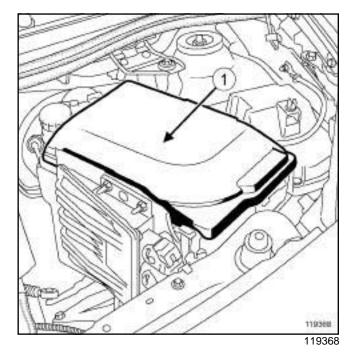
WARNING

Before disconnecting the battery:

- wait until the fan assembly stops,
- -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.

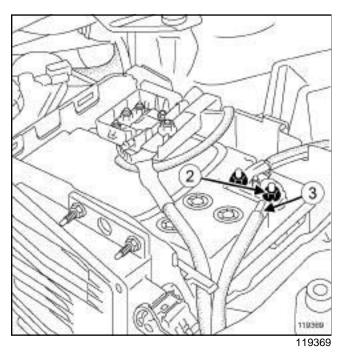


 $\hfill\square$ Remove the battery cover (1) .



II - REMOVAL OF PART CONCERNED

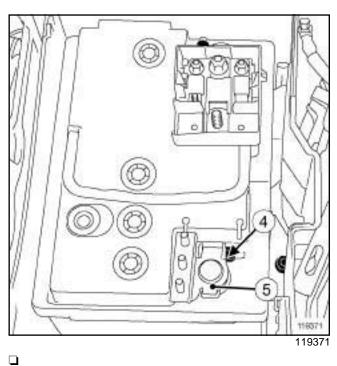
1 - DISCONNECTING



Note:

Before disconnecting the wiring of the negative battery terminal, note the position of the wiring.

- □ Remove the stud nut (2) from the negative battery terminal.
- Disconnect the wiring (3) from the negative battery terminal.



1

Note:

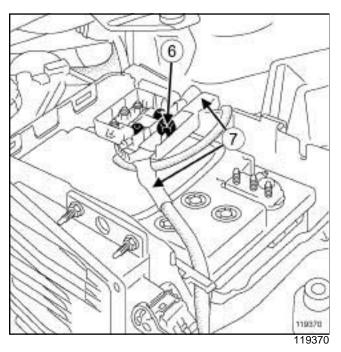
Mark the position of the negative battery terminal.

- $\hfill\square$ Undo the negative battery terminal nut (4) .
- □ Remove the negative battery terminal (5).

BATTERY Battery: Removal - Refitting



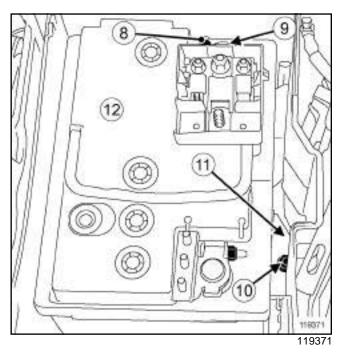
2 - REMOVAL



Note:

Before disconnecting the positive battery terminal wiring, mark the position of the wiring.

- □ Remove the positive battery terminal wiring nut (6).
- Disconnect the wiring (7) from the positive battery terminal.



Note:

Mark the position of the positive battery terminal.

- Undo the positive battery terminal nut (8).
- Remove:
 - the positive battery terminal (9) .
 - the battery bracket bolt (10),
 - the battery bracket (11),
 - the battery (12) .

REFITTING

- I REFITTING PREPARATION OPERATION
- □ Check the battery (see **Battery: Check**) (80A, Battery).

II - REFITTING OPERATION FOR PART CONCERNED

- 1 REFITTING
- Place the battery in its housing, placing it as close to the engine as possible.
- Refit:
 - the battery bracket,
 - the battery bracket bolt.
- Torque tighten the battery bracket bolt (12 N.m).



- Push the positive battery terminal fully onto the positive terminal post into the position marked during the removal operation.
- □ Torque tighten the **positive battery terminal nut (8 N.m)**.
- Connect the positive battery terminal wiring.
- □ Torque tighten the stud nut on the positive battery terminal (12 N.m).

WARNING

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

(see **80A**, **Battery**, **Battery**: **Precautions for the repair**, page **80A-1**).

2 - CONNECTION

WARNING

To prevent premature loosening of the stud nuts on the negative terminal, refit a maximum of two terminals per stud and distribute the terminals over different studs.

- Push the negative battery terminal onto the negative terminal post into the position marked during the removal operation.
- □ Torque tighten the **negative battery terminal nut (8 N.m)**.
- Connect the wiring to the negative battery terminal.
- □ Torque tighten the stud nut on the negative battery terminal (6 N.m).

WARNING

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

(see **80A**, **Battery**, **Battery**: **Precautions for the repair**, page **80A-1**).

III - FINAL OPERATION

- □ Refit the battery cover.
- When refitting the battery or each time it is disconnected, carry out a certain number of operations, without using the diagnostic tool, so that the vehicle can operate correctly (see **Battery: Initialisation**) (80A, Battery).

BATTERY Battery tray: Removal - Refitting



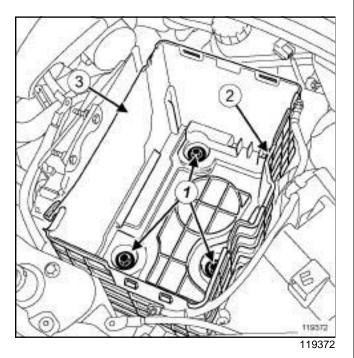
Tightening torques 灾	
battery tray bolts	21 N.m

REMOVAL

I - REMOVAL PREPARATION OPERATION

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

II - OPERATION FOR REMOVAL OF PART CONCERNED

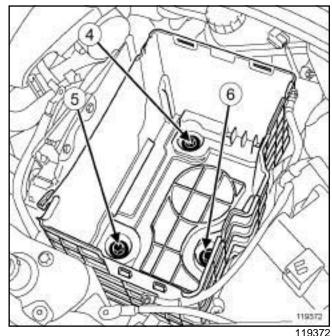


- □ Remove the bolts (1) from the battery tray.
- $\hfill\square$ Take out the battery tray (3) .
- □ Unclip the degassing pipe (2) from the battery tray.
- $\hfill\square$ Remove the battery tray (3) .

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- □ Clip the degassing pipe onto the battery tray.
- Refit:
 - the battery tray,
 - the battery tray bolts,



- 19372
- Torque tighten the battery tray bolts (21 N.m) in order (4), (5), (6).

II - FINAL OPERATION

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

HEADLIGHTS Front lighting: List and location of components

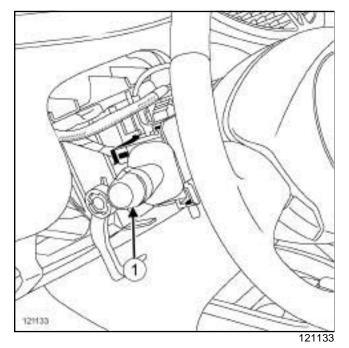


I - LIST OF COMPONENTS

No.	Description
(1)	Signalling light switch
(2)	UCH
(3)	Passenger compartment fuse and relay box
(4)	Halogen headlight
(5)	Fog light
(6)	Side indicator

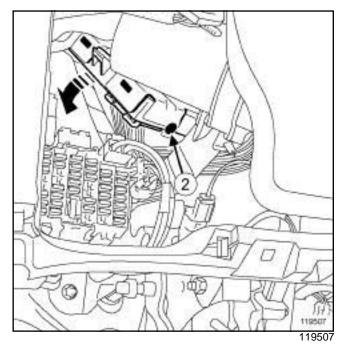
II - LOCATION OF COMPONENTS

1 - Signalling light switch

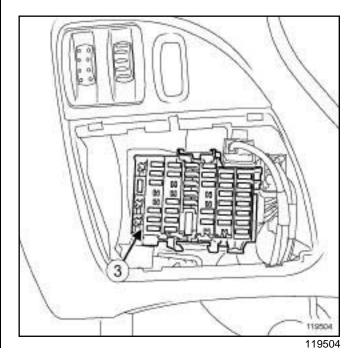


To remove the signalling light switch (see 84A, Control - Signals, Signals and lighting switch: Removal - Refitting, page 84A-8).

2 - UCH



The UCH is located in the dashboard, above the passenger compartment relay/fuse box, for removal (see 87B, Passenger compartment connection unit, UCH: Removal - Refitting, page 87B-1).

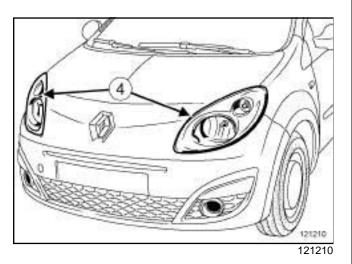


3 - Passenger compartment fuse and relay box

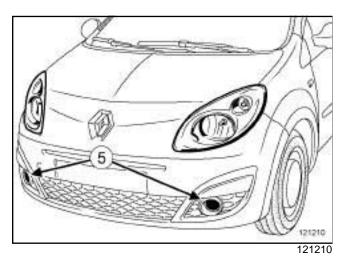
HEADLIGHTS Front lighting: List and location of components



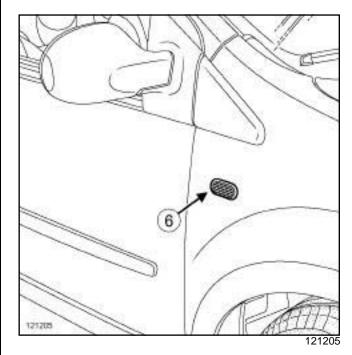
4 - Halogen headlight



5 - Fog light



6 - Side indicator



80B

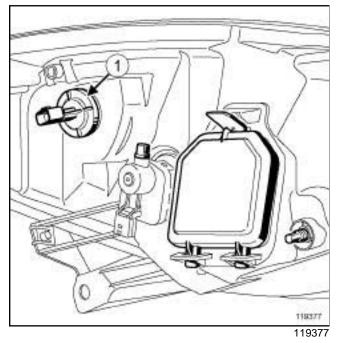
REMOVAL

I - REMOVAL PREPARATION OPERATION

□ Switch off the ignition.

II - REMOVAL OPERATION FOR PART CONCERNED

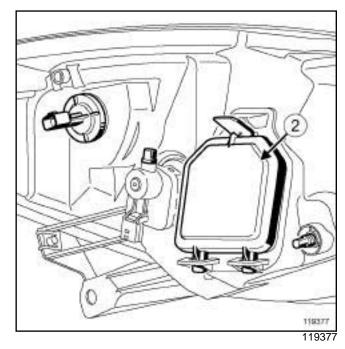
1 - Indicator bulb



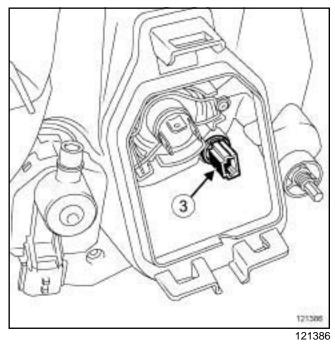
Disconnect the indicator connector.

- Turn the indicator bulb mounting a quarter of a turn anti-clockwise (1).
- □ Remove:
 - the indicator "bulb mounting bulb" assembly,
 - the bulb from its mounting.

2 - Side light bulbs



□ Remove the cover (2).



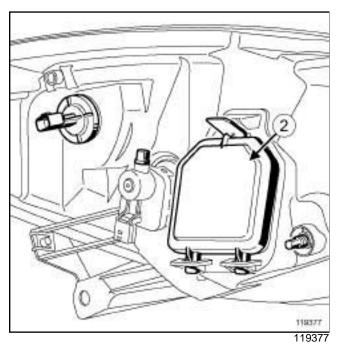
Disconnect the side light connector.

Remove:

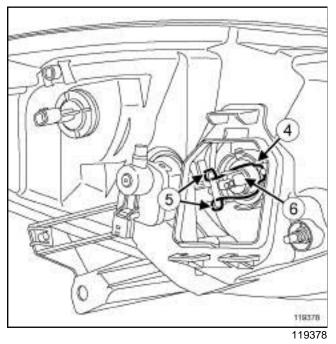
- the "bulb mounting bulb" assembly (3) from the side light,
- the bulb from its mounting.



3 - Dipped beam headlight and main beam headlight bulb



□ Remove the cover (2).



- Disconnect the dipped beam headlight and main beam headlight connector.
- Undo the clip (4) at (5).
- □ Remove the dipped beam headlight and main beam headlight bulb (6).

REFITTING

REFITTING OPERATION FOR PART CONCERNED

1 - Indicator bulb

- Refit:
 - a **PY21W** approved bulb on the indicator bulb mounting,
 - the "bulb mounting bulb" assembly on the halogen headlight.
- □ Turn the indicator bulb mounting a quarter of a turn clockwise.
- Connect the indicator connector.

2 - Side light bulbs

- Refit:
 - a **W5W** approved bulb on the side light bulb mounting,
 - the "bulb mounting bulb" assembly on the halogen headlight.
- □ Connect the side light connector.
- Refit the cover.

3 - Dipped beam headlight and main beam headlight bulb

- **Refit an H4 approved bulb on the halogen headlight.**
- □ Fit the clip onto the halogen headlight.
- □ Connect the dipped beam headlight and the main beam headlight connector.
- Refit the cover.

HEADLIGHTS

Remote headlight beam adjustment motor: Removal - Refitting

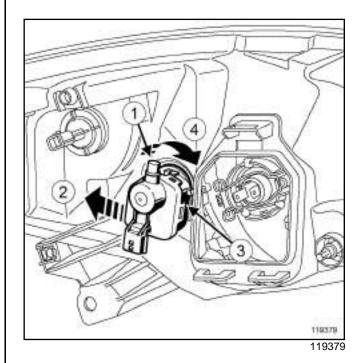


REMOVAL

I - REMOVAL PREPARATION OPERATION

- Position the vehicle on a two-post lift (see Vehicle: Towing and lifting) (MR 411, 02A, Lifting equipment).
- Remove:
 - the front wheels (see **Wheel: Removal Refitting**) (MR 411, 35A, Wheels and tyres),
 - the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (MR 412, 55A, Exterior protection),
 - the front bumper (see **Front bumper: Removal - Refitting**) (MR 412, 55A, Exterior protection),
 - the headlights (see 80B, Headlights, Halogen headlight: Removal Refitting, page 80B-7).

II - OPERATION FOR REMOVAL OF PART CONCERNED





- Tighten the beam adjustment bolt (1) (a maximum of six turns).
- Apply pressure to (2).
- Unclip the beam adjustment motor by removing the clip (3) and turning the beam adjustment motor an eighth of a turn towards the outside of the headlight (4).
- Uncouple the ball joint (5) from the reflector shell by tilting the beam adjustment motor slightly.

Remote headlight beam adjustment motor: Removal - Refitting

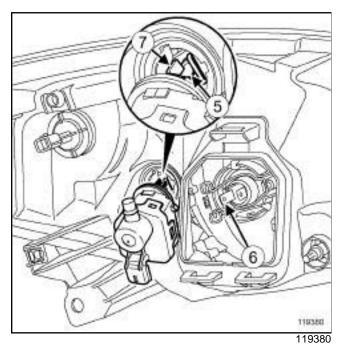


REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

Note:

When refitting a new beam adjustment motor, tighten the adjusting screws by six turns.



- □ Keep the reflector shell towards the rear of the lens unit while pulling on the bulb holder. (6)
- □ Fit the ball joint (5) into the groove (7) on the headlight.

Note:

The ball joint should not just be in contact with the groove, it should be fitted into it.

- □ Refit the beam adjustment motor, turning it an eighth of a turn towards the inside of the headlight.
- Loosen the beam adjustment bolt by the same number of turns as during removal.

II - FINAL OPERATION.

- Refit:
 - -the front headlights (see **80B**, **Headlights**, **Halogen headlight: Removal - Refitting**, page **80B-7**),
 - the front bumper (see **Front bumper: Removal - Refitting**) (MR 412, 55A, Exterior protection),

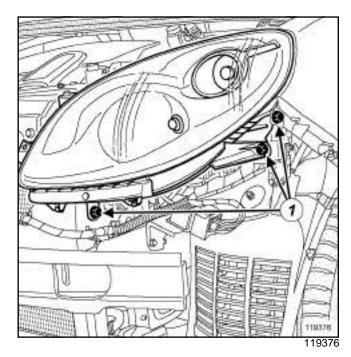
- the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (MR 412, 55A, Exterior protection),
- the front wheels (see **Wheel: Removal Refitting**) (MR 411, 35A, Wheels and tyres).
- □ Adjust the headlights (see 80B, Headlights, Halogen headlight: Adjustment, page 80B-9).

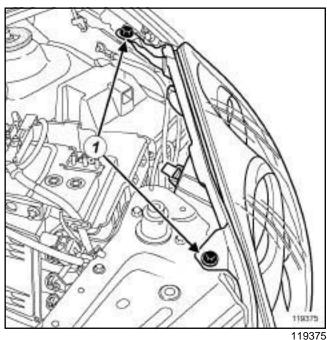


I - REMOVAL PREPARATION OPERATION

- Position the vehicle on a two-post lift (see Vehicle: Towing and lifting) (MR 411, 02A, Lifting equipment).
- □ Switch off the ignition.
- Remove:
 - the front wheels (see **Wheel: Removal Refitting**) (MR 411, 35A, Wheels and tyres),
 - the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (MR 412, 55A, Exterior protection),
 - the front bumper (see **Front bumper: Removal - Refitting**) (MR 412, 55A, Exterior protection).

II - REMOVAL OPERATION FOR PART CONCERNED

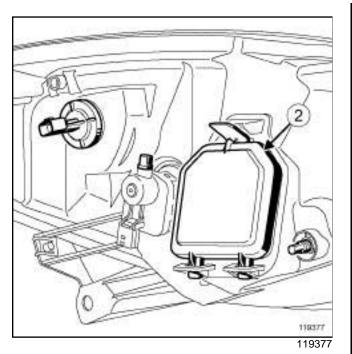




Remove the bolts (1) from the halogen headlight.
Remove the halogen headlight.

HEADLIGHTS Halogen headlight: Removal - Refitting





- Remove the cover (2) from the halogen headlight.
- Disconnect the halogen headlight connectors.
- Remove:
 - the headlight,
 - the halogen headlight bulbs (see **80B**, **Headlights**, **Halogen bulb: Removal Refitting**, page **80B-3**).

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- Refit the halogen headlight bulbs (see 80B, Headlights, Halogen bulb: Removal Refitting, page 80B-3).
- □ Connect the halogen headlight connectors.
- Refit:
 - the halogen headlight cover,
 - the halogen headlight,
 - the halogen headlight bolts.

II - FINAL OPERATION.

- Refit:
 - the front bumper (see **Front bumper: Removal - Refitting**) (MR 412, 55A, Exterior protection),
 - the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (MR 412, 55A, Exterior protection),

- the front wheels (see **Wheel: Removal Refitting**) (MR 411, 35A, Wheels and tyres).
- Adjust the halogen headlights (see 80B, Headlights, Halogen headlight: Adjustment, page 80B-9).

HEADLIGHTS Halogen headlight: Adjustment

80B

Equipment required

headlight adjustment and checking tool

ADJUSTMENT

I - PREPARATION OPERATION

- □ Place the vehicle on a level horizontal working area.
- Do not apply the parking brake.
- □ Check and inflate the tyres (see **Tyre pressure**) (MR 411, 35A, Wheels and tyres).
- □ Open the cover.
- Check:
 - that the luggage compartment is empty,
 - that the headlights are clean.

Note:

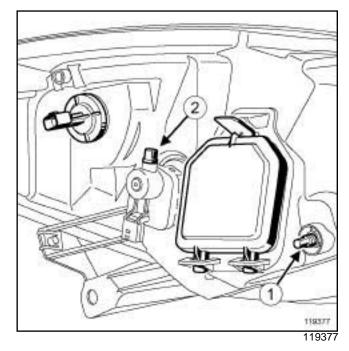
Do not get into the vehicle throughout the operation.

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

II - TEST OPERATION

- Place a headlight adjustment and checking tool set to -1% in front of the vehicle (see equipment instructions).
- Check the headlight beam adjustment using the headlight adjustment and checking tool (see the instructions for the equipment).

III - ADJUSTMENT OPERATION



- Using the headlight adjustment and checking tool :
 - perform lateral adjustment of the headlight using the screw $\left(1\right)$,
 - adjust the headlight beam by using the screw (2) .

IV - FINAL OPERATION.

Close the bonnet.



I - REMOVAL PREPARATION OPERATION

D4F, and 780

Removing the left-hand fog light bulb

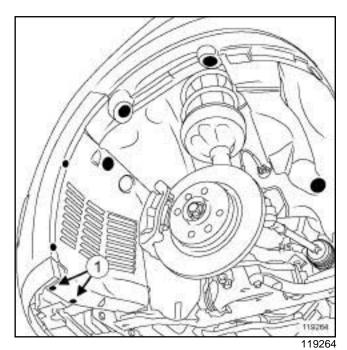
Note:

The front bumper must be removed in order to remove the left-hand fog light bulb.

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

K4M, and 854

Removing the fog light bulb



Remove:

- the lower bolts (1) of the front wheel arch liner,
- the bolt from the front section of the engine undertray on the side concerned.

Removing the fog light

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



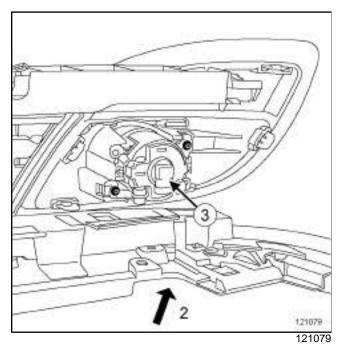
II - OPERATION FOR REMOVAL OF PART CONCERNED

1 - Removing the fog light bulb

K4M, and 854 – D4F or D7F or K9K

Note:

For D4F/780 engines, the right-hand fog light bulb is accessed from under the vehicle.



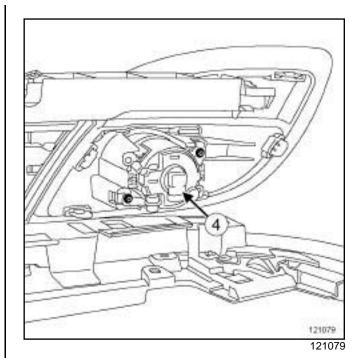
Disconnect the fog light connector.

□ Turn the fog light bulb (3) a quarter of a turn anticlockwise by reaching through \Box (2).

D4F, and 780

Note:

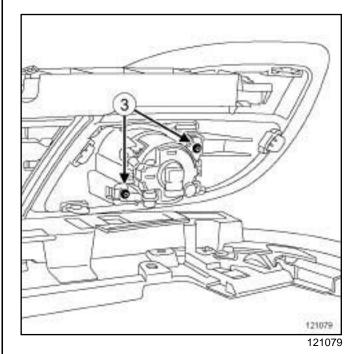
The front bumper must be removed in order to remove the left-hand fog light bulb.



□ Turn the fog light bulb (4) a quarter of a turn anticlockwise.

□ Remove the fog light bulb.

2 - Removal of the fog light



Remove:

- the bolts (5) from the front fog light,
- the front fog light.



REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

1 - Refitting the fog light bulb

- □ Replace the fog light bulb with an approved bulb.
- Refit the fog light bulb.
- □ Turn the fog light bulb a quarter of a turn clockwise.
- □ Connect the fog light connector.

2 - Refitting the fog light

□ Refit the front fog light.

II - FINAL OPERATION.

D4F, and 780

Refitting the left-hand fog light bulb

- Refit:
 - the front bumper (see **Front bumper: Removal - Refitting**) (55A, Exterior protection),
 - the front wheel arch liners (see **Front wheel arch liner: Removal Refitting**) (55A, Exterior protection),
 - the front wheels (see **Wheel: Removal Refitting**) (35A, Wheels and tyres).

K4M, and 854

Refitting the fog light bulb

- Refit:
 - the lower bolts of the front wheel arch liner,
 - the bolt for the front section of the engine undertray on the side concerned.

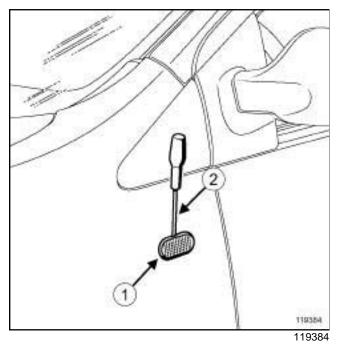
Refitting the fog light

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

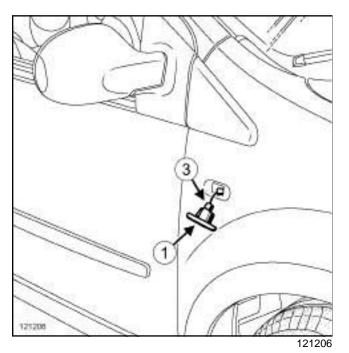
- the front wheel arch liners (see **Front wheel arch liner: Removal Refitting**) (55A, Exterior protection),
- the front wheels (see **Wheel: Removal Refitting**) (35A, Wheels and tyres).



OPERATION FOR REMOVAL OF PART CONCERNED



□ Unclip the side indicator (1) using a small flat-blade screwdriver (2).



Remove the side indicator (1) from the bulb mounting (3) by turning it a quarter of a turn anti-clockwise.

REFITTING

REFITTING OPERATION FOR PART CONCERNED

- □ If the side indicator bulb is replaced, use a **W5W** approved bulb.
- Refit the side indicator on the bulb mounting by turning it a quarter of a turn clockwise.
- □ Fit the side indicator onto the front wing.

REAR LIGHTING Rear lighting: List and location of components

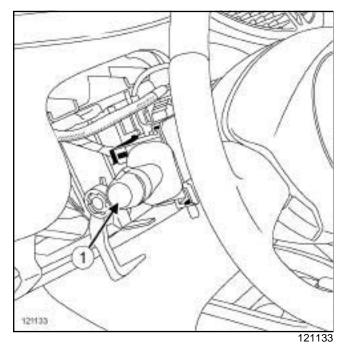


I - LIST OF COMPONENTS

No.	Description
(1)	Signalling light switch
(2)	UCH
(3)	Passenger compartment fuse and relay box
(4)	Rear light on wing
(5)	High level brake light
(6)	License plate light

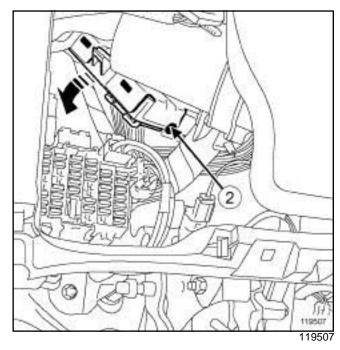
II - LOCATION OF COMPONENTS

1 - Signalling light switch

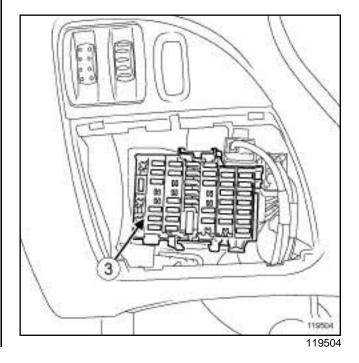


To remove the signalling light switch (see 84A, Control - Signals, Signals and lighting switch: Removal - Refitting, page 84A-8).

2 - UCH



The UCH is located in the dashboard, above the passenger compartment relay/fuse box, for removal (see 87B, Passenger compartment connection unit, UCH: Removal - Refitting, page 87B-1).

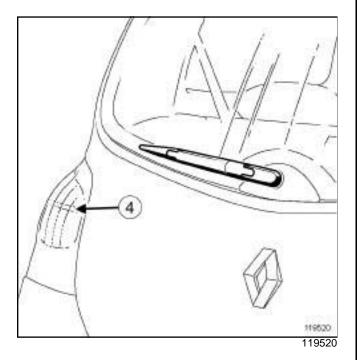


3 - Passenger compartment fuse and relay box

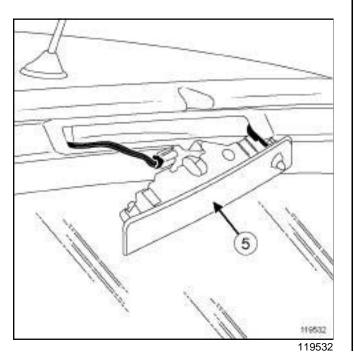
REAR LIGHTING Rear lighting: List and location of components



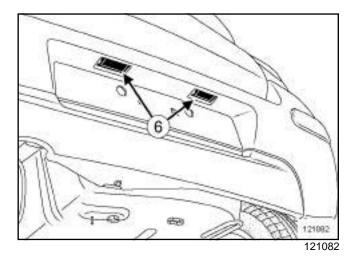
4 - Rear light on wing



5 - High level brake light



6 - License plate light

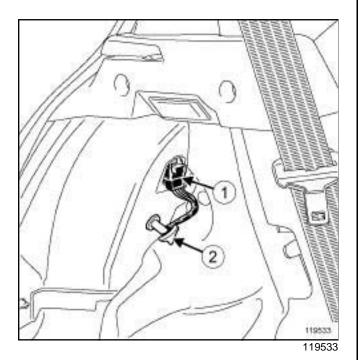




I - REMOVAL PREPARATION OPERATION

Switch off the ignition.

II - REMOVAL OPERATION FOR PART CONCERNED



- Disconnect the connector (1) from the rear light on the wing.
- □ Remove:
 - the bolt (2) from the rear light on the wing,
 - the rear light on the wing,
 - the rear light bulbs on the wing (see 81A, Rear lighting, Rear light bulb: Removal - Refitting, page 81A-4).

REFITTING

REFITTING OPERATION FOR PART CONCERNED

- Refit:
 - the rear light bulbs on the wing (see 81A, Rear lighting, Rear light bulb: Removal - Refitting, page 81A-4),
 - the rear light on the wing,
 - the rear light bolt on the wing.
- Connect the connector for the rear light on the wing.



I - REMOVAL PREPARATION OPERATION

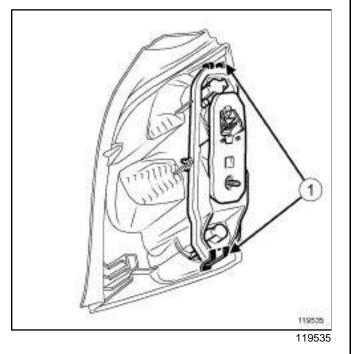
- □ Switch off the ignition.
- 1 Rear light bulbs on the wing
- Remove the rear light on the wing (see 81A, Rear lighting, Rear wing light: Removal Refitting, page 81A-3).
- 2 High level brake light bulb
- Remove the high level brake light (see 81A, Rear lighting, 3rd brake light: Removal Refitting, page 81A-6).

3 - License plate light bulb

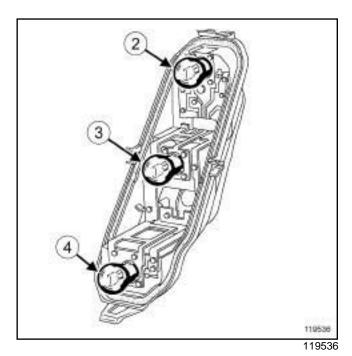
Remove the license plate light (see 81A, Rear lighting, Number plate light: Removal - Refitting, page 81A-8).

II - REMOVAL OPERATION FOR PART CONCERNED

1 - Rear light bulbs on the wing



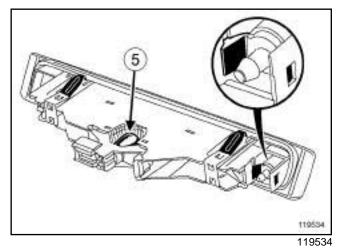
□ Unclip the plate by pressing on the clips (1).



□ Remove:

- the side light and brake light bulb $({\bf 2})$,
- the indicator bulb $({\bf 3})$,
- the rear fog light bulb (left rear light) or the reversing light bulb (right rear light) (4) .

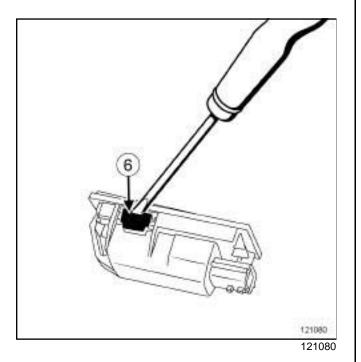
2 - High level brake light bulb



 $\hfill\square$ Remove the high level brake light bulb (5) .



3 - License plate light bulb



Unclip the light at (6).

□ Remove the license plate light bulb.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

Note:

When replacing a bulb, only use approved bulbs.

1 - Rear light bulbs on the wing

- Refit:
 - the side light and brake light bulb (P21/5W),
 - the indicator bulb (PY21W),
 - the rear fog light bulb (left rear light) or the reversing light bulb (right rear light) (**P21W**).

2 - High level brake light bulb

□ Refit the high level brake light bulb (W16W).

3 - License plate light bulb

□ Refit the license plate light bulb (W5W).

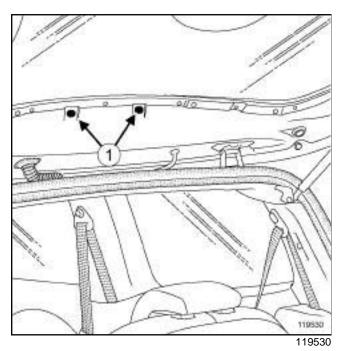
II - FINAL OPERATION.

1 - Rear light bulbs on the wing

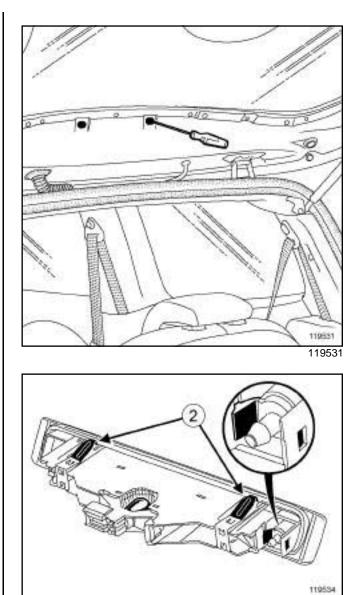
- Refit the rear light on the wing (see 81A, Rear lighting, Rear wing light: Removal Refitting, page 81A-3).
- 2 High level brake light bulb
- Refit the high level brake light (see 81A, Rear lighting, 3rd brake light: Removal Refitting, page 81A-6).
- 3 License plate light bulb
- Refit the license plate light (see 81A, Rear lighting, Number plate light: Removal - Refitting, page 81A-8).



OPERATION FOR REMOVAL OF PART CONCERNED



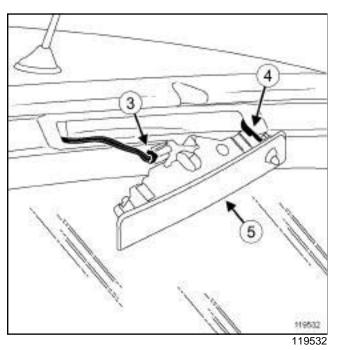
□ Remove the blanking covers (1).



□ Unclip the high level brake light with a flat-blade screwdriver by pressing on the clips (2).

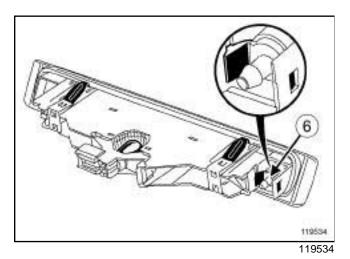
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Disconnect:

- the connector (3) from the high level brake light,
- the supply pipe (4) from the rear screen washer jet.
- $\hfill\square$ Remove the high level brake light (5) .



Remove:

- the rear screen washer jet (6) (see 85A, Wiping -Washing, Rear screen washer jet: Removal -Refitting, page 85A-25),
- the high level brake light bulb (see **81A**, **Rear lighting**, **Rear light bulb: Removal Refitting**, page **81A-4**).

REFITTING

REFITTING OPERATION FOR PART CONCERNED

Refit:

- the high level brake light bulb (see 81A, Rear lighting, Rear light bulb: Removal Refitting, page 81A-4),
- the rear screen washer jet (see **85A**, **Wiping Washing**, **Rear screen washer jet: Removal Refitting**, page **85A-25**).

Connect:

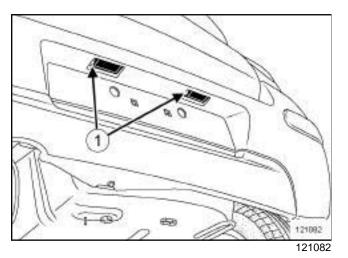
- the rear screen washer jet supply pipe,
- the high level brake light connector.
- Refit:
 - the high level brake light,
 - the blanking covers.



I - REMOVAL PREPARATION OPERATION

□ Switch off the ignition.

II - REMOVAL OPERATION FOR PART CONCERNED



- Unclip the license plate lights at (1) with a small flatblade screwdriver.
- Disconnect the license plate light connectors.
- Remove the license plate light bulbs (see 81A, Rear lighting, Rear light bulb: Removal Refitting, page 81A-4).

REFITTING

REFITTING OPERATION FOR PART CONCERNED

- Refit the license plate light bulbs (see 81A, Rear lighting, Rear light bulb: Removal Refitting, page 81A-4).
- □ Connect the number plate light connectors.
- □ Clip on the number plate lights.

INTERIOR LIGHTING Interior lighting: List and location of components

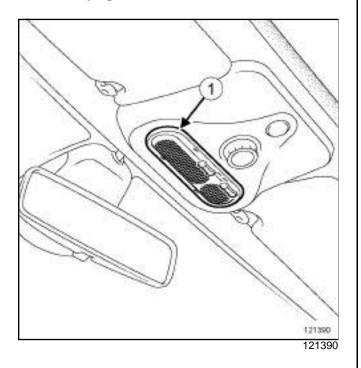


I - LIST OF COMPONENTS

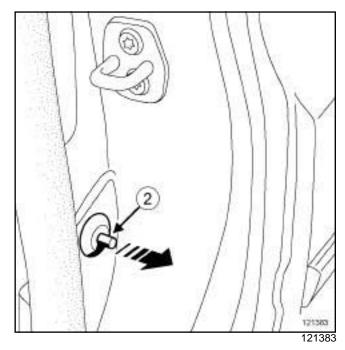
No.	Description
(1)	Courtesy light
(2)	Door switch
(3)	Luggage compartment light

II - LOCATION OF COMPONENTS

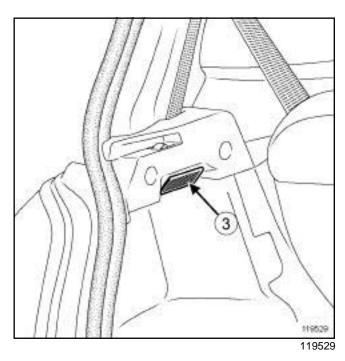
1 - Courtesy light



2 - Door switch

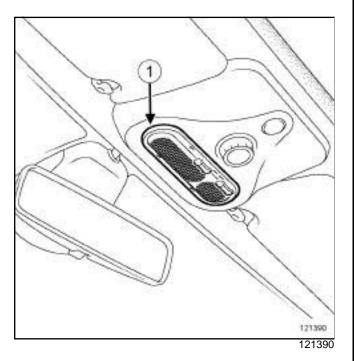


3 - Luggage compartment light

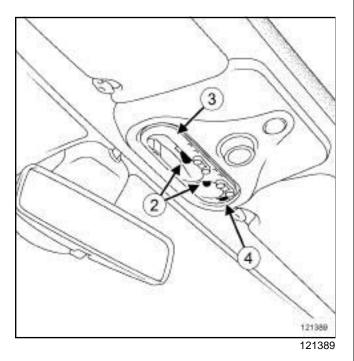




OPERATION FOR REMOVAL OF PART CONCERNED



Unclip the translucent cover at (1) using a small flatblade screwdriver.



- □ Remove the bulbs (2).
- □ Unclip the courtesy lights (3) at (4) using a small flatblade screwdriver.
- Disconnect the courtesy lights connector.

REFITTING

- □ Connect the courtesy lights connector.
- □ Clip the courtesy lights onto their mounting.
- Refit the bulbs.

Note:

If the bulbs are changed, use $\ensuremath{\textbf{W5W}}$ approved bulbs.

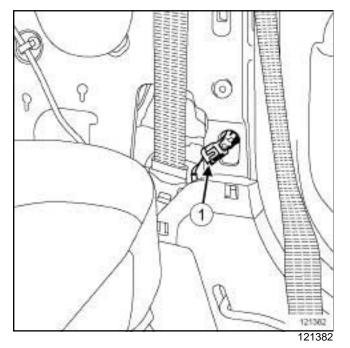
□ Fit the translucent cover onto the courtesy lights.



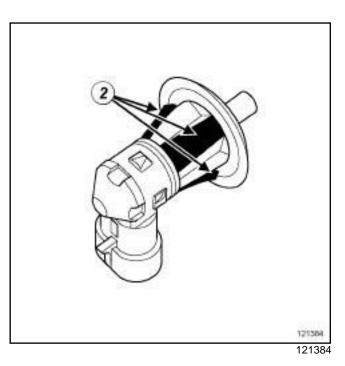
I - REMOVAL PREPARATION OPERATION

- □ Remove:
 - the rear parcel shelf side trim (see **Rear parcel** shelf side trim: **Removal Refitting**) (MR 412, 71A, Seat internal trim),
 - the rear panel trim (see **Rear panel lining: Remo**val - **Refitting**) (MR 412, 71A, Seat internal trim).

II - OPERATION FOR REMOVAL OF PART CONCERNED



Disconnect the connector (1) from the door switch.





□ Remove the door switch at (3) by pressing on the clips (2).

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- □ Fit the door switch.
- □ Connect the door switch connector.



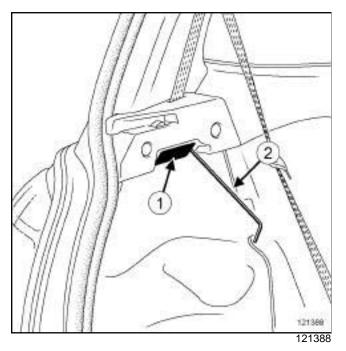
II - FINAL OPERATION.

- Refit:
 - the rear panel trim (see **Rear panel lining: Remo**val - **Refitting**) (MR 412, 71A, Seat internal trim),
 - the rear parcel shelf side trim (see **Rear parcel** shelf side trim: **Removal Refitting**) (MR 412, 71A, Seat internal trim).

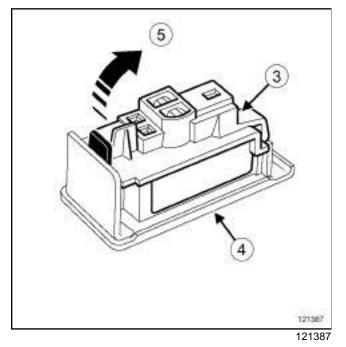
INTERIOR LIGHTING Luggage compartment light: Removal - Refitting



REMOVAL



- □ Undo the luggage compartment light (1) using a scratch awl (2).
- Disconnect the luggage compartment lighting connector.



- □ Unclip the bulb mounting (3) from the translucent cover (4) at (5).
- Remove the bulb.

REFITTING

REFITTING OPERATION FOR PART CONCERNED

Refit the bulb.

Note:

If the bulb is changed, use a **W5W** approved bulb.

- □ Fit the bulb mounting onto the translucent cover.
- □ Connect the luggage compartment light connector.
- □ Clip the luggage compartment light onto the rear parcel shelf side trim.

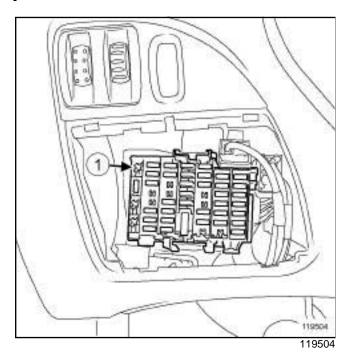


No.	Description
(1)	Passenger compartment fuse and relay box
(2)	Additional relay/fuse box
(3)	Battery protection fuses
(4)	Engine interconnection unit

II - POSITION OF THE COMPONENTS

1 - Passenger compartment fuse and relay box

LEFT-HAND DRIVE

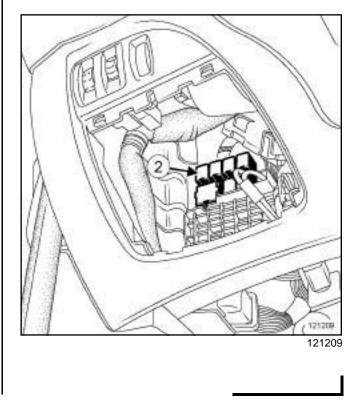


 RIGHT-HAND DRIVE

81C

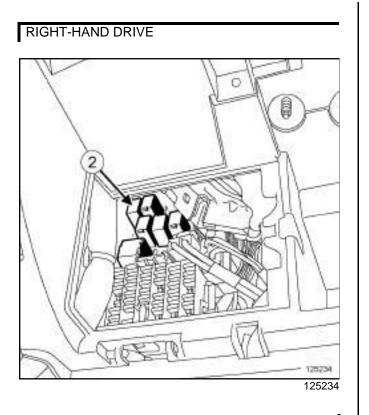
2 - Additional relay/fuse box

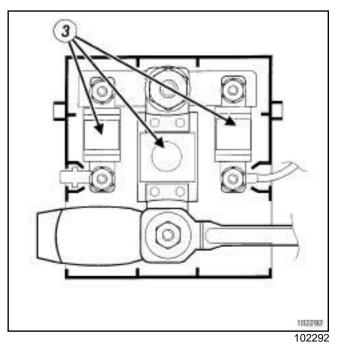
LEFT-HAND DRIVE



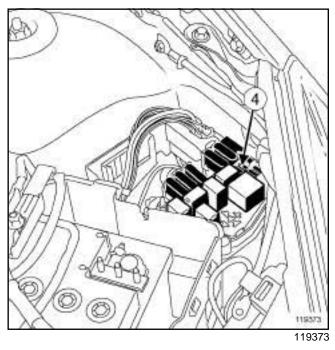
FUSES Fuses: List and location of components



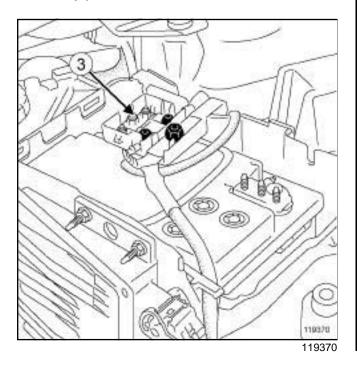




4 - Engine interconnection unit



3 - Battery protection fuses



ENGINE IMMOBILISER Immobiliser system: List and location of components

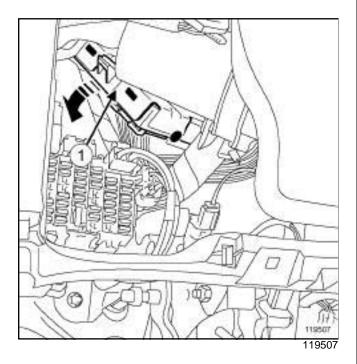


I - LIST OF COMPONENTS

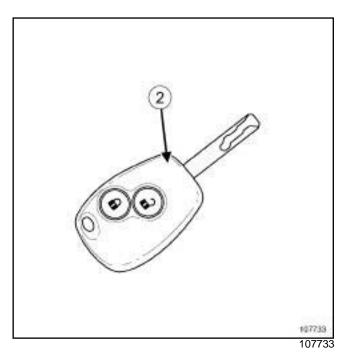
No.	Description
(1)	UCH
(2)	Кеу
(3)	Ignition switch
(4)	Antenna/Transponder ring

II - LOCATION OF COMPONENTS

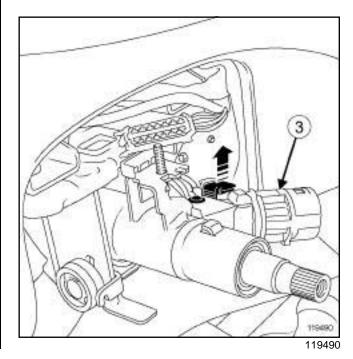
1 - UCH



2 - Key

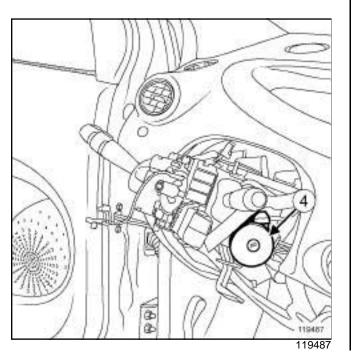


3 - Ignition switch





4 - Antenna/Transponder ring



ENGINE IMMOBILISER Ignition switch: Removal - Refitting



Equipment required

Diagnostic tool

REMOVAL

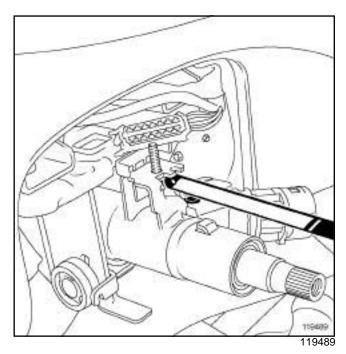
I - REMOVAL PREPARATION OPERATION

- □ Set the wheels straight ahead.
- Lock the airbag computer using the Diagnostic tool (see MR 413 Fault finding, 88C, Airbags and pretensioners, Fault finding - Replacement of components).
- □ Disconnect the battery (see 80A, Battery, Battery: Removal Refitting, page 80A-2).

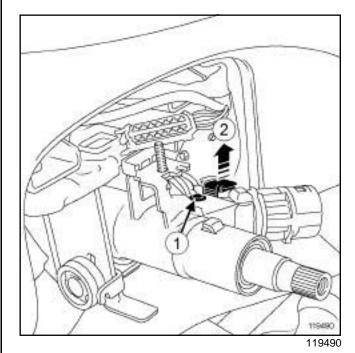
ENGINE REV COUNTER

- Remove the rev counter (see 83A, Instrument panel, Rev counter: Removal Refitting, page 83A-3).
- Remove:
 - the driver's front airbag (see 88C, Air bag and Pretensioners, Driver's frontal airbag: Removal -Refitting, page 88C-6)
 - the steering wheel ((see Steering wheel: Removal Refitting)),
 - the steering column switch assembly (see 84A, Control - Signals, Steering column switch assembly: Removal - Refitting, page 84A-2),
 - the antenna/transponder ring (see 82A, Engine immobiliser, Transponder ring: Removal - Refitting, page 82A-6).

II - OPERATION FOR REMOVAL OF PART CONCERNED



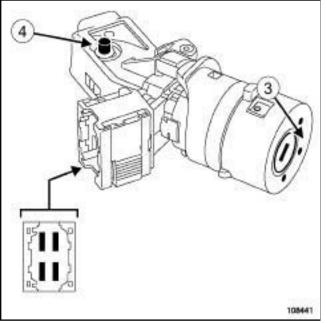
□ Make a saw mark on the shear bolt.



- **Remove the bolt (1)**.
- Loosen the connector at (2).
- Disconnect the starter switch connector.

ENGINE IMMOBILISER Ignition switch: Removal - Refitting





108441

- Desition the ignition key between the first and second position (+ accessories and + after ignition feed) (3) .
- □ Press the retaining lug (4).
- **□** Remove the ignition switch.

REFITTING

I - REFITTING PREPARATION OPERATION

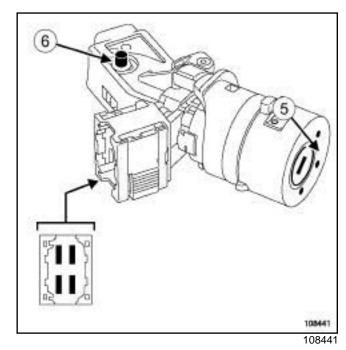
- □ Always replace:
 - the ignition switch bolt,
 - the steering wheel bolt.

II - REFITTING OPERATION FOR PART CONCERNED

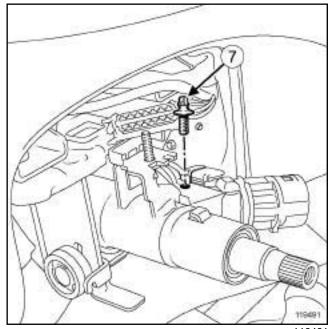
Note:

To protect against tampering, always secure the ignition switch with a shear bolt.

Be sure to recover the sheared-off part of the bolt after it has been tightened.



- Desition the ignition key between the first and second position (+Accessories and +APC) (5).
- □ Press the retaining lug (6).
- □ Fit the ignition switch.



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- □ Tighten the shear bolt (7) until the bolt head shears off.
- Connect the starter switch connector.
- Lock the starter switch connector.



III - FINAL OPERATION.

Refit:

- the antenna/transponder ring (see 82A, Engine immobiliser, Transponder ring: Removal - Refitting, page 82A-6),
- the steering column switch assembly (see 84A, Control - Signals, Steering column switch assembly: Removal - Refitting, page 84A-2),
- the steering wheel ((see Steering wheel: Removal Refitting)),
- the driver's front airbag (see 88C, Air bag and Pretensioners, Driver's frontal airbag: Removal -Refitting, page 88C-6).

ENGINE REV COUNTER

- □ Refit the rev counter (see 83A, Instrument panel, Rev counter: Removal Refitting, page 83A-3).
- Connect the battery (see 80A, Battery, Battery: Removal - Refitting, page 80A-2).
- Unlock the airbag computer using the Diagnostic tool (see MR 413 Fault finding, 88C, Airbags and pretensioners, Fault finding - Replacement of components).

ENGINE IMMOBILISER Transponder ring: Removal - Refitting

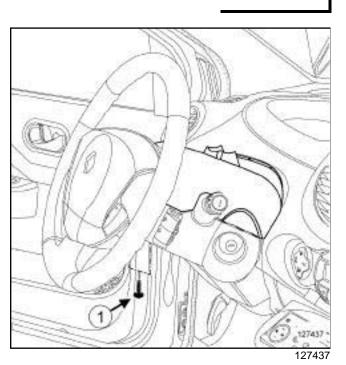


REMOVAL

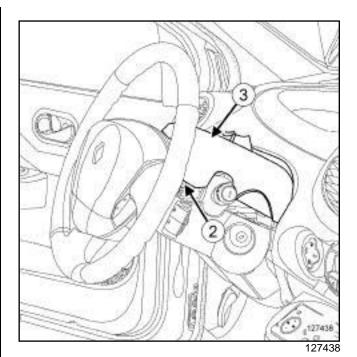
I - REMOVAL PREPARATION OPERATION

ENGINE REV COUNTER

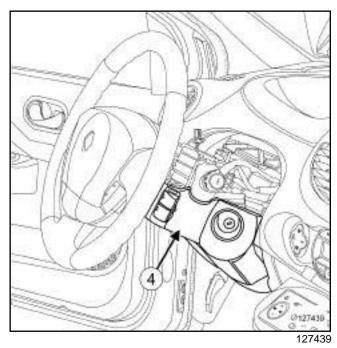
Remove the rev counter (see 83A, Instrument panel, Rev counter: Removal - Refitting, page 83A-3).



 $\hfill\square$ Remove the lower cover bolts (1) .



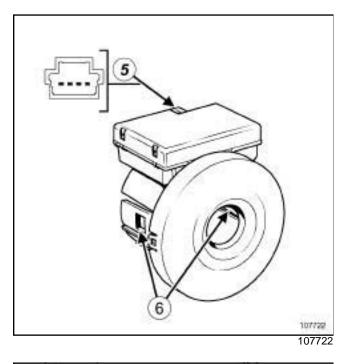
- □ Unclip the upper cover at (2).
- $\hfill\square$ Remove the upper cover (3) .

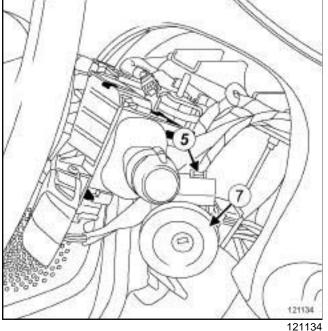


 $\hfill\square$ Remove the lower cover (4) .



II - OPERATION FOR REMOVAL OF PART CONCERNED





Unclip:

- the connector $({\bf 5})$,

- the two antenna/transponder ring tabs $({\bf 6})$.
- Disconnect the antenna/transponder ring connector.
- $\hfill\square$ Remove the antenna/transponder ring (7) .

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- □ Clip the antenna/transponder ring onto the ignition switch.
- □ Connect the antenna/transponder ring connector.

II - FINAL OPERATION.

- Refit:
 - the lower cover,
 - the upper cover.

ENGINE REV COUNTER

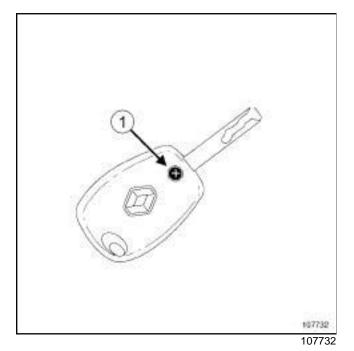
□ Refit the rev counter (see 83A, Instrument panel, Rev counter: Removal - Refitting, page 83A-3).

ENGINE IMMOBILISER

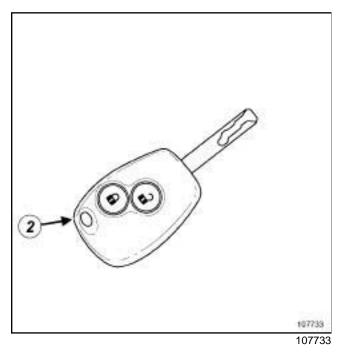
Battery for remote door locking control: Removal - Refitting

REMOVAL

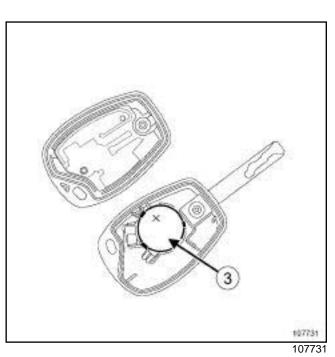
OPERATION FOR REMOVAL OF PART CONCERNED



□ Remove the bolt (1).



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



□ Remove the battery (3) from the door locking remote control using a small flat-blade screwdriver.

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.

- □ Fit the door locking remote control battery.
- Close the key.
- □ Tighten the bolt.

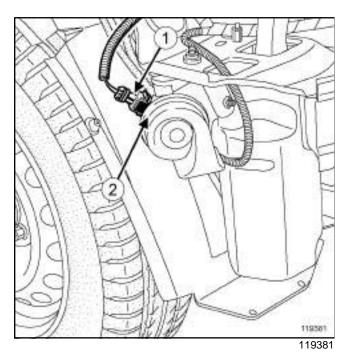


REMOVAL

I - REMOVAL PREPARATION OPERATION

□ Remove the front right-hand wheel arch liner ((see **Front wheel arch liner: Removal - Refitting**)).

II - OPERATION FOR REMOVAL OF PART CONCERNED



- $\hfill\square$ Disconnect the horn connector (1) .
- □ Remove:
 - the horn bolt $({\bf 2})$,
 - the horn.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- Refit:
 - the horn,
 - the horn bolt.
- □ Connect the horn connector.

II - FINAL OPERATION.

□ Refit the front right-hand wheel arch liner ((see **Front wheel arch liner: Removal - Refitting**)).

INSTRUMENT PANEL Instrument panel: Removal - Refitting



Equipment required

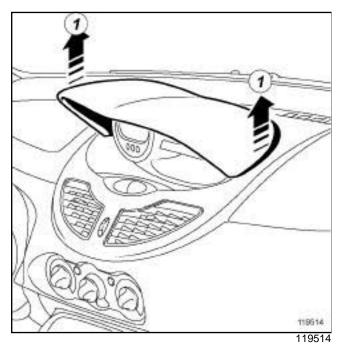
Diagnostic tool

REMOVAL

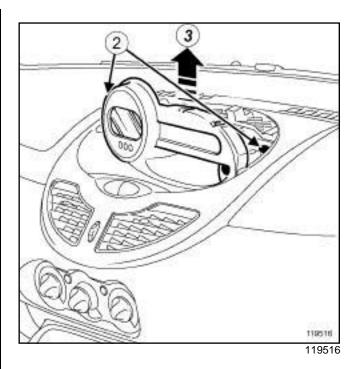
I - REMOVAL PREPARATION OPERATION

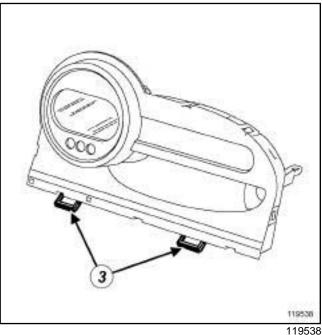
If replacing an instrument panel, carry out the necessary operations using the Diagnostic tool (see MR 413 Fault finding, 83A, Instrument panel, Fault Finding - Replacement of components).

II - OPERATION FOR REMOVAL OF PART CONCERNED



Unclip the instrument panel visor (1).





- □ Remove the instrument panel bolts (2).
- Unclip the instrument panel (3).
- Disconnect the connectors from the instrument panel.
- $\hfill\square$ Remove the instrument panel (3) .

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

Connect the connectors to the instrument panel.



- □ Clip on the instrument panel.
- □ Refit the instrument panel bolts.
- □ Clip on the instrument panel visor.

II - FINAL OPERATION.

If replacing an instrument panel, carry out the necessary operations using the Diagnostic tool (see MR 413 Fault finding, 83A, Instrument panel, Fault Finding - Replacement of components).

INSTRUMENT PANEL Rev counter: Removal - Refitting

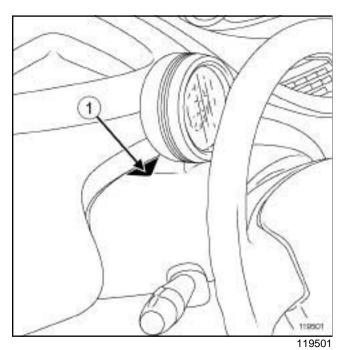


ENGINE REV COUNTER

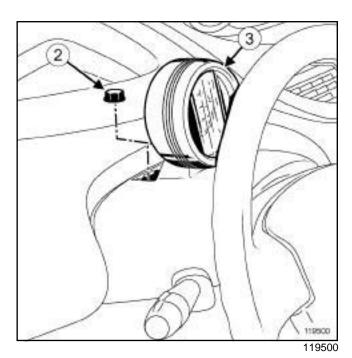
Tightening torques 灾	
rev counter nut	8 Nm

REMOVAL

OPERATION FOR REMOVAL OF PART CONCERNED



□ Unclip the rear trim (1) from the rev counter.



- **□** Remove the nut (**2**) from the rev counter.
- Disconnect the rev counter connector.
- **□** Remove the rev counter (**3**) from above.

REFITTING

REFITTING OPERATION FOR PART CONCERNED

- □ Connect the rev counter connector.
- Refit:
 - the rev counter,
 - the rev counter nut.
- □ Torque tighten the **rev counter nut (8 Nm)**.
- □ Clip on the rev counter rear trim.

CRUISE CONTROL

Cruise control - speed limiter: List and location of components

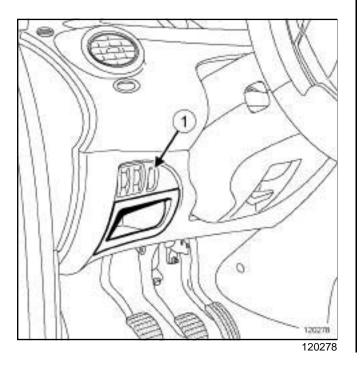
CRUISE CONTROL

I - LIST OF COMPONENTS

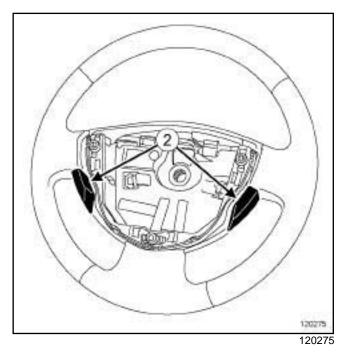
No.	Description
(1)	Switch
(2)	Steering column switches

II - LOCATION OF COMPONENTS

1 - Switch



2 - Steering column switches



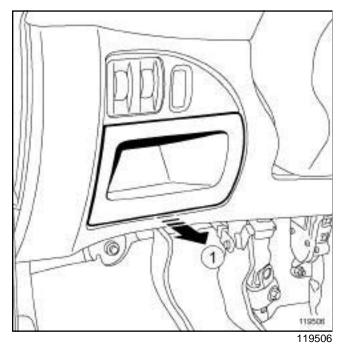
83D



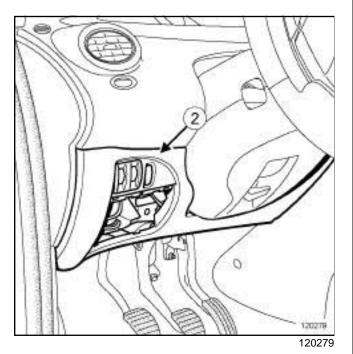
CRUISE CONTROL

REMOVAL

I - REMOVAL PREPARATION OPERATION

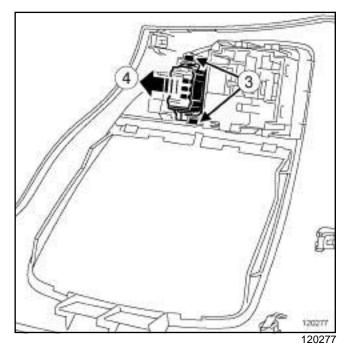


Remove the storage compartment (1) under the steering wheel.



- $\hfill\square$ Unclip the trim under the steering wheel (2) .
- Disconnect the various connectors from the plate.
- □ Remove the trim under the steering wheel.

II - OPERATION FOR REMOVAL OF PART CONCERNED



Unclip the switch (4) from the trim under the steering wheel by pressing the clips (3).

REMOVAL

I - REFITTING OPERATION FOR PART CONCERNED

□ Clip the switch onto the trim under the steering wheel.

II - FINAL OPERATION.

- □ Connect the various connectors.
- □ Refit the trim under the steering wheel.
- Refit the storage compartment under the steering wheel.



CRUISE CONTROL

The steering column switches cannot be separated from the steering wheel.

In the event of any faults, replace the steering wheel (see **Steering wheel: Removal - Refitting**) (MR 411, 36B, Power-assisted steering).

Steering column switch assembly: List and location of components

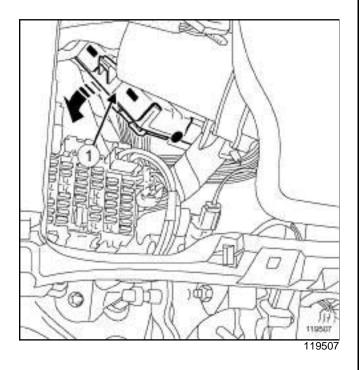


I - LIST OF COMPONENTS

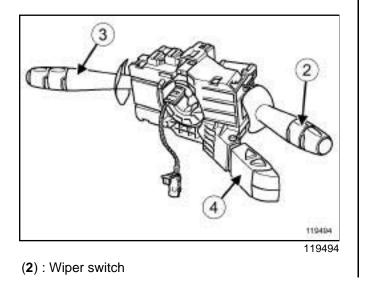
No.	Description
(1)	UCH
(2)	Windscreen wiper switch
(3)	Signalling light switch
(4)	Telephone/radio control satellite

II - LOCATION OF COMPONENTS

1 - UCH



2 - Steering column switch assembly



- (3) : Indicator light switch
- (4) : Telephone/radio control satellite

CONTROL - SIGNALS Steering column switch assembly: Removal - Refitting



Equipment required

Diagnostic tool

WARNING

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

REMOVAL

I - REMOVAL PREPARATION OPERATION

WARNING

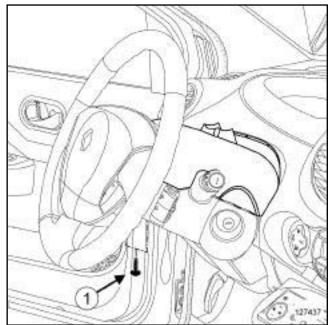
Incorrect wheel alignment could ruin the rotary switch.

Set the wheels straight ahead.

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

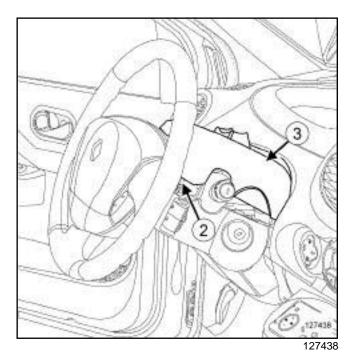
ENGINE REV COUNTER

Remove the rev counter (see 83A, Instrument panel, Rev counter: Removal - Refitting, page 83A-3).



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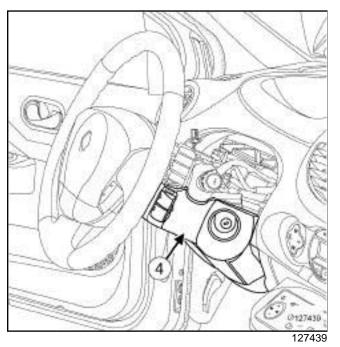
Remove the lower cover bolts (1).



- □ Unclip the upper cover at (2).
- □ Remove the upper cover (3).

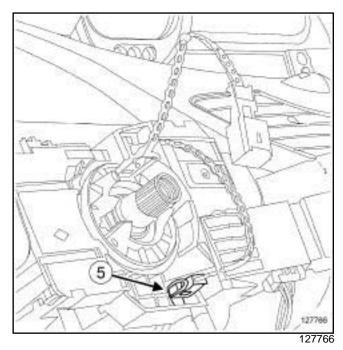
CONTROL - SIGNALS Steering column switch assembly: Removal - Refitting





- □ Remove the lower cover (4).
- □ Remove:
 - the driver's side front airbag (see 88C, Air bag and Pretensioners, Driver's frontal airbag: Removal
 Refitting, page 88C-6),
 - the steering wheel (see Steering wheel: Removal
 - Refitting) (36B, Power-assisted steering),

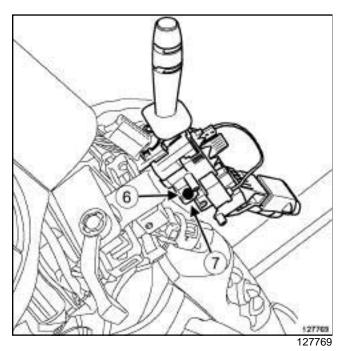
II - OPERATION FOR REMOVAL OF PART CONCERNED



□ Lock the driver's front airbag (5) connector in the housing of the radio satellite connector to immobilise the rotary switch throughout the removal operation.

CONTROL - SIGNALS Steering column switch assembly: Removal - Refitting





- Disconnect the steering column switch assembly connectors.
- □ Remove the bolt (6) from the steering column switch assembly.
- □ Use a flat-blade screwdriver at (7) to release the steering column switch assembly.
- Remove the steering column switch assembly from the steering column.

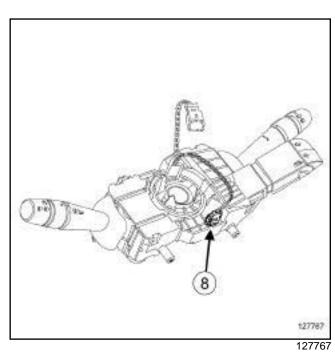
REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

WARNING

Incorrect wheel alignment could ruin the rotary switch.

Ensure that the wheels are set straight ahead.

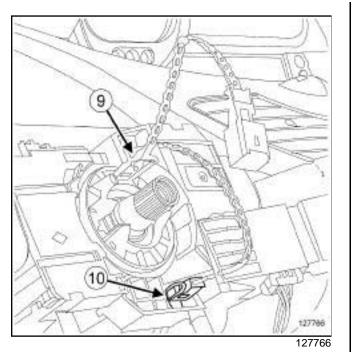


Note:

Always keep the rotary switch immobilised in (8) throughout the refitting operation.

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





- □ Check that the rotary switch is positioned correctly: the outlet for the driver's front airbag (9) wiring always must be facing upwards.
- □ At the last moment, remove the immobilised (10) connector.

II - FINAL OPERATION.

Refit:

- the steering wheel (see **Steering wheel: Removal** - **Refitting**) (36B, Power-assisted steering),
- the driver's front airbag (see 88C, Air bag and Pretensioners, Driver's frontal airbag: Removal -Refitting, page 88C-6).
- the cowlings under the steering wheel.

ENGINE REV COUNTER

- □ Refit the rev counter (see 83A, Instrument panel, Rev counter: Removal Refitting, page 83A-3).
- Connect the battery (see 80A, Battery, Battery: Removal - Refitting, page 80A-2).
- Unlock the airbag computer using the Diagnostic tool (see Fault finding - Replacement of components) (88C, Airbags and pretensioners).
- □ Switch on the ignition.
- □ Check the operation of the rotary switch:
 - turn the steering wheel to the left until it stops,

- turn the steering wheel to the right until it stops,
- check that there are no faults on the instrument panel.

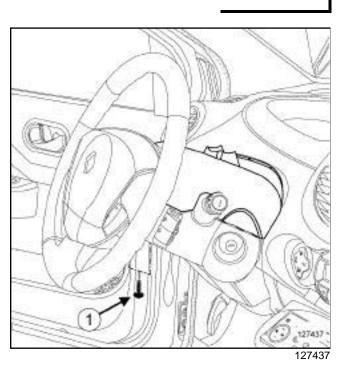


REMOVAL

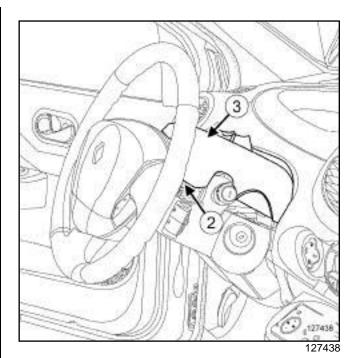
I - REMOVAL PREPARATION OPERATION

ENGINE REV COUNTER

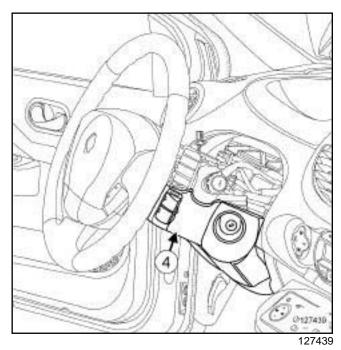
Remove the rev counter (see 83A, Instrument panel, Rev counter: Removal - Refitting, page 83A-3).



 $\hfill\square$ Remove the lower cover bolts (1) .



- Unclip the upper cover at (2).
- $\hfill\square$ Remove the upper cover $(\mathbf{3})$.

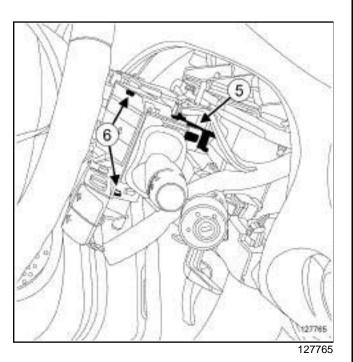


Remove:

- the lower cover (4),
- the antenna/transponder ring (see 82A, Engine immobiliser, Transponder ring: Removal - Refitting, page 82A-6).



II - OPERATION FOR REMOVAL OF PART CONCERNED



- Disconnect the connector (5) .
- □ Remove the windscreen wiper switch by pressing down on the clips (6).

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- □ Connect the wiper switch connector.
- □ Clip the windscreen wiper switch onto the rotary switch.

II - FINAL OPERATION.

- Refit:
 - the antenna/transponder ring (see 82A, Engine immobiliser, Transponder ring: Removal - Refitting, page 82A-6),
 - the cowlings under the steering wheel.

ENGINE REV COUNTER

□ Refit the rev counter (see 83A, Instrument panel, Rev counter: Removal - Refitting, page 83A-3).

CONTROL - SIGNALS Signals and lighting switch: Removal - Refitting

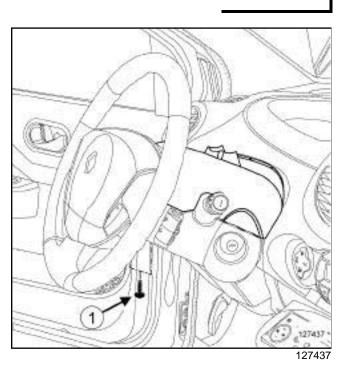


REMOVAL

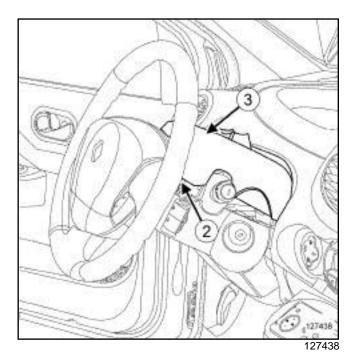
I - REMOVAL PREPARATION OPERATION

ENGINE REV COUNTER

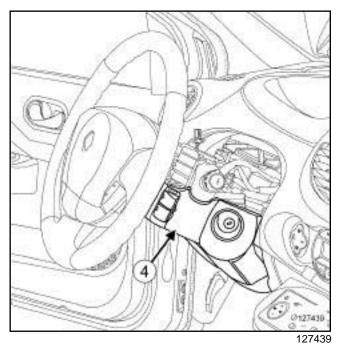
Remove the rev counter (see 83A, Instrument panel, Rev counter: Removal - Refitting, page 83A-3).



 $\hfill\square$ Remove the lower cover bolts (1) .



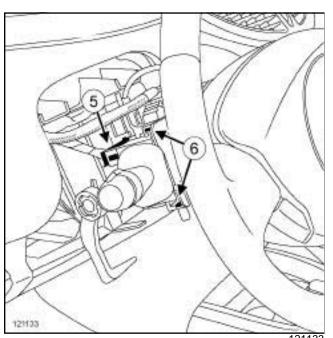
- Unclip the upper cover at (2).
- $\hfill\square$ Remove the upper cover $(\mathbf{3})$.



 $\hfill\square$ Remove the lower cover (4) .



II - OPERATION FOR REMOVAL OF PART CONCERNED



121133

- $\hfill\square$ Disconnect the connector (5) .
- □ Remove the signal lighting switch by pressing on the clips (6).

REMOVAL

I - REFITTING OPERATION FOR PART CONCERNED

- □ Connect the signalling light switch connector.
- □ Clip the indicator light switch onto the rotary switch.

II - FINAL OPERATION.

□ Refit the covers under the steering wheel.

ENGINE REV COUNTER

□ Refit the rev counter (see 83A, Instrument panel, Rev counter: Removal - Refitting, page 83A-3).

CONTROL - SIGNALS

Hazard warning lights and central door control: Removal - Refitting



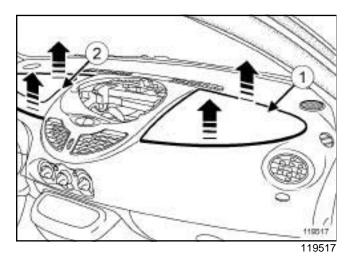
Equipment required

Diagnostic tool

REMOVAL

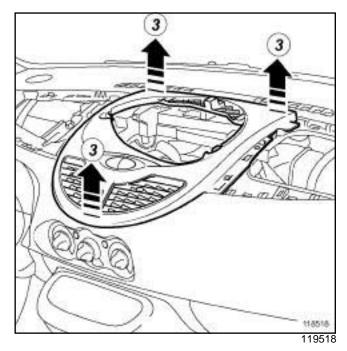
I - REMOVAL PREPARATION OPERATION

- Lock the airbag computer using the Diagnostic tool (see MR 413 Fault finding, 88C, Airbags and pretensioners, Fault finding - Replacement of components).
- □ Disconnect the battery (see 80A, Battery, Battery: Removal Refitting, page 80A-2).

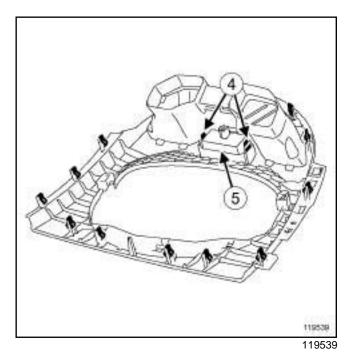


- Remove:
 - the instrument panel (see 83A, Instrument panel, Instrument panel: Removal Refitting, page 83A-1),
 - the passenger front airbag (1) (see 88C, Air bag and Pretensioners, Passenger's frontal airbag: Removal - Refitting, page 88C-8).
- □ Unclip the side trim from the driver's side dashboard (2).

II - OPERATION FOR REMOVAL OF PART CONCERNED



- Unclip the dashboard central trim (3).
- Disconnect the hazard warning light and central door locking switch connector.



- Unclip the hazard warning light and central door locking switch at (4).
- Remove the hazard warning light and central door locking switch (5).

Hazard warning lights and central door control: Removal - Refitting



REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

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

II - FINAL OPERATION.

- Clip on:
 - the dashboard central trim,
 - the side trim from the driver's side dashboard.
- Refit:
 - the passenger front airbag (see 88C, Air bag and Pretensioners, Passenger's frontal airbag: Removal - Refitting, page 88C-8),
 - the instrument panel (see 83A, Instrument panel, Instrument panel: Removal Refitting, page 83A-1).
- Connect the battery (see 80A, Battery, Battery: Removal Refitting, page 80A-2).
- Unlock the airbag computer using the Diagnostic tool (see MR 413 Fault finding, 88C, Airbags and pretensioners, Fault finding - Replacement of components).

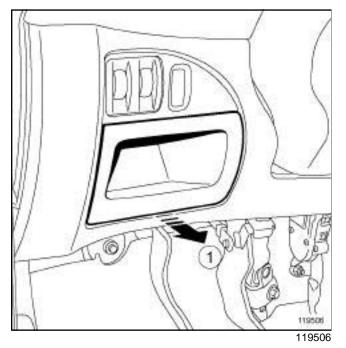
CONTROL - SIGNALS Lighting dimmer: Removal - Refitting



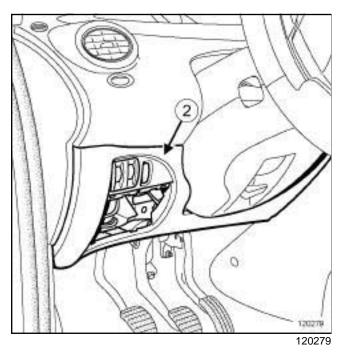
C44 or G44

REMOVAL

I - REMOVAL PREPARATION OPERATION

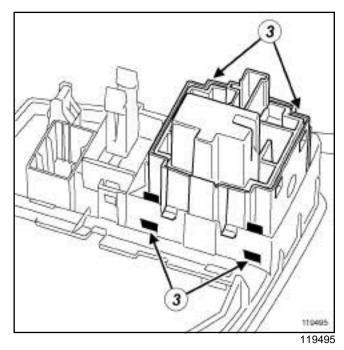


Unclip the storage compartment (1) under the steering wheel.



- $\hfill\square$ Unclip the trim under the steering wheel (2) .
- Disconnect the various connectors from the plate.
- □ Remove the trim under the steering wheel.

II - OPERATION FOR REMOVAL OF PART CONCERNED



Remove the lighting dimmer by pressing on the clips(3).

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

□ Clip the lighting dimmer onto the trim under the steering wheel.

II - FINAL OPERATION.

- □ Connect the various connectors.
- Refit:
 - the trim under the steering wheel,
 - the storage compartment.

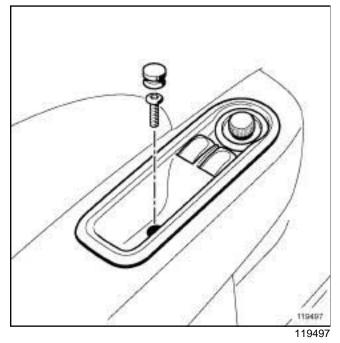
Exterior rear view mirror control switch: Removal - Refitting



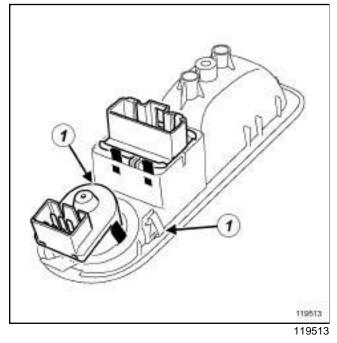
DOOR MIRRORS 02 or DOOR MIRRORS 03 or DOOR MIRRORS 04

REMOVAL

I - REMOVAL PREPARATION OPERATION

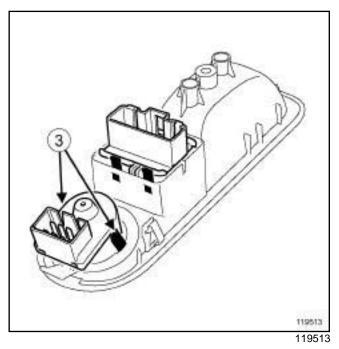


Remove the driver's door trim ((see Front side door trim: Removal - Refitting)).



Remove the electric window control plate from the front side door trim by pressing the clips (1).

II - OPERATION FOR REMOVAL OF PART CONCERNED



□ Remove the exterior rear view mirror control switch by pressing on the clips (3).

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

Refit the exterior rear view mirror control switch on the electric window plate.

II - FINAL OPERATION.

Refit:

- the electric window control plate on the front side door trim,
- the driver's door trim ((see Front side door trim: Removal Refitting)).



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.

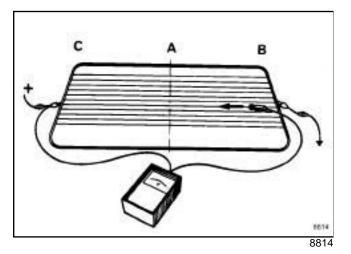
Faults such as these can be repaired by using the heated rear screen varnish available at the. **Maga-sin Pièces de Rechange**

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

- □ Switch on the ignition.
- Switch on the heated rear screen supply.

1 - Detection between lines B and A

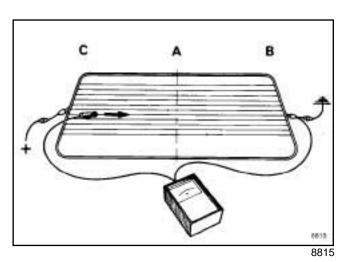
- □ Connect the + wire of the voltmeter to the + feed terminal of the rear screen.
- Put the wire of the voltmeter on a filament at the terminal side of the rear screen (line B); the voltage obtained should be roughly equal to that of the battery.
- □ Move the wire to line A (arrowed line): the voltage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



A sudden voltage drop indicates that the filament is cut at that point (carry out 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 (arrowed line); the voltage gradually drops.



A sudden voltage drop indicates that the filament is cut at that point (carry out this operation for each filament).

II - REPAIRING THE FILAMENT

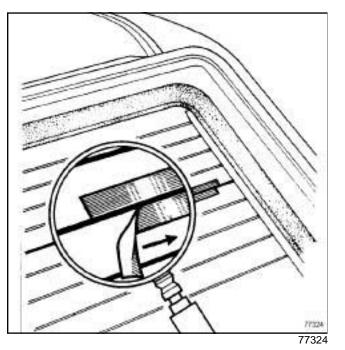
- Clean the section to be treated to remove all dust or grease, preferably using alcohol or a glass cleaner, and wipe with a clean, dry cloth.
- To ensure that the new line is straight, before varnishing, apply adhesive tape to either side of the section to be repaired, leaving the conducting line exposed.
- 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.
- □ If an error is made with the varnish (runs, smudges, etc.), it can be removed using a knife point, but only after several hours, once the product has properly hardened.

CONTROL - SIGNALS Heated rear screen: Repair





□ 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. When used at an ambient temperature of **20°C**, the varnish is completely dry in three hours. At lower temperatures the drying time is slightly longer.

WIPING - WASHING Wiping and washing: List and location of components

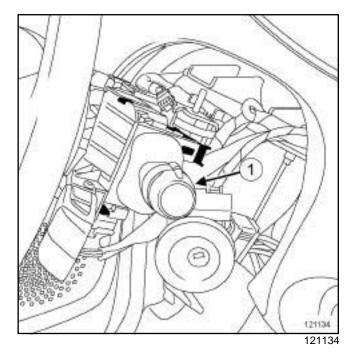


I - LIST OF COMPONENTS

No.	Description
(1)	Windscreen wiper switch
(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)	Rain and light sensor

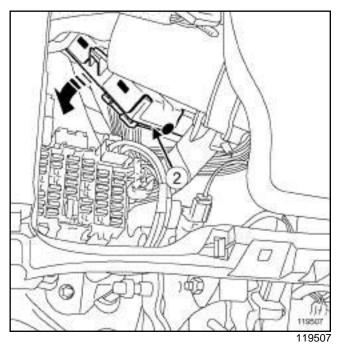
II - POSITION OF THE COMPONENTS

1 - Windscreen wiper switch



To remove the windscreen wiper switch (see 84A, Control - Signals, Screen wiper switch: Removal - Refitting, page 84A-6).

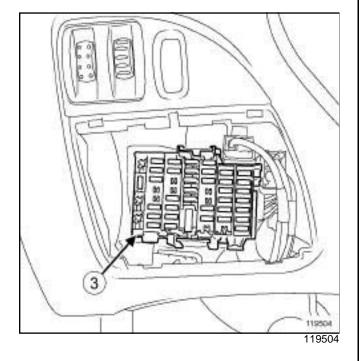
2 - UCH



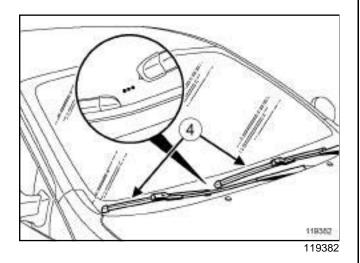
The UCH is located in the dashboard, above the passenger compartment relay/fuse box; to remove it (see 87B, Passenger compartment connection unit, UCH: Removal - Refitting, page 87B-1).

85A

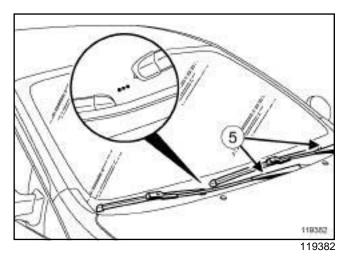
3 - Passenger compartment fuse and relay box



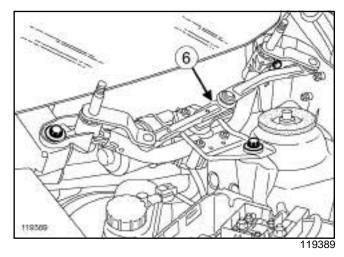
4 - Windscreen wiper blade



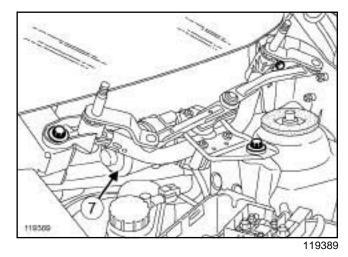
5 - Windscreen wiper blade arm



6 - Windscreen wiper mechanism



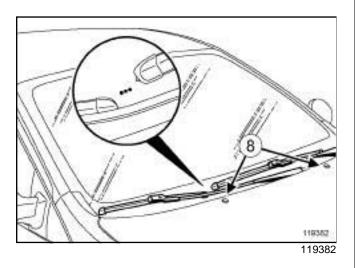
7 - Windscreen wiper motor



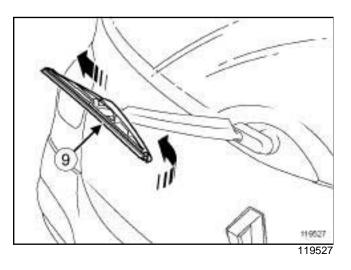
WIPING - WASHING Wiping and washing: List and location of components

85A

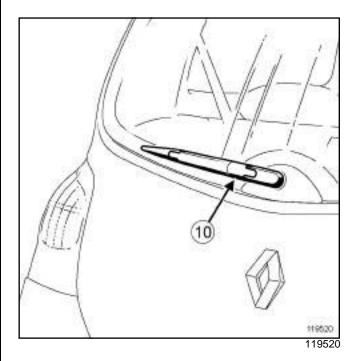
8 - Windscreen wiper jet



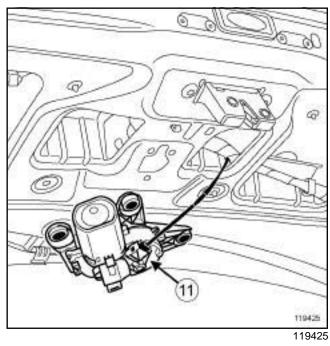
9 - Rear screen wiper blade



10 - Rear screen wiper blade arm



11 - Rear screen wiper motor

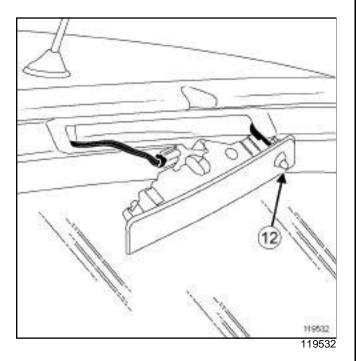


The rear screen wiper motor is located under the tailgate trim.

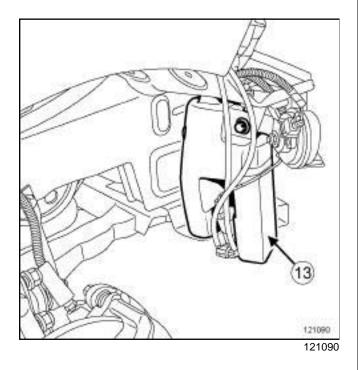
WIPING - WASHING Wiping and washing: List and location of components

85A

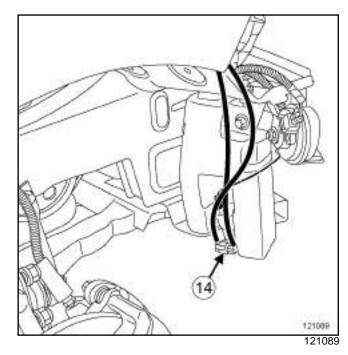
12 - Rear screen washer jet



13 - Windscreen washer bottle



14 - Windscreen washer pump



15 - Rain and light sensor



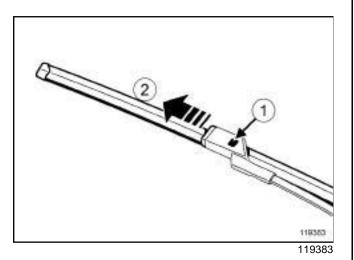
The rain and light sensor is located under the interior rear-view mirror covers.



I - REMOVAL PREPARATION OPERATION

□ Switch off the ignition.

II - REMOVAL OPERATION FOR PART CONCERNED



- □ Press on the windscreen wiper blade clip (1).
- □ Extract the windscreen wiper blade from the windscreen wiper arm at (2).

REFITTING

REFITTING OPERATION FOR PART CONCERNED

□ Refit the windscreen wiper blade onto the windscreen wiper arm.

WIPING - WASHING Windscreen wiper arm: Removal - Refitting



LEFT-HAND DRIVE

Special	tooling	required
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Ele. 1294-01

Tool for removing wiper arms.

Tightening torques 🖓

wiper arm nuts

21 Nm

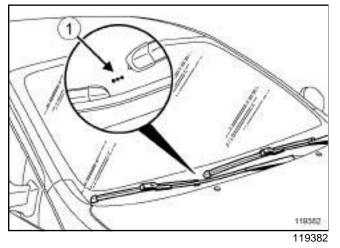
REMOVAL

I - REMOVAL PREPARATION OPERATION

WARNING

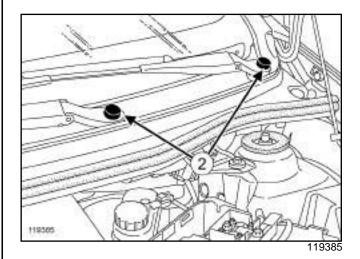
To ensure that the wiper arms can travel smoothly, the wiper motor must be initialised.

- □ Switch on the ignition.
- Move the wiper stalk from (0) to (1), then from (1) to (0).
- □ Switch off the ignition.

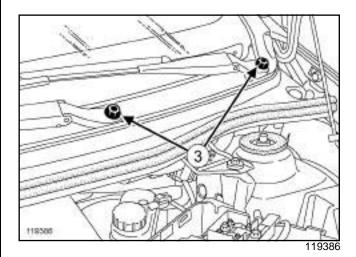


Usually mark the position of the wiper arms (1).

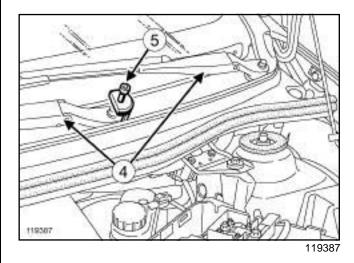
II - REMOVAL OPERATION FOR PART CONCERNED



 $\hfill\square$ Remove the nut covers (2) .



□ Remove nuts (3).



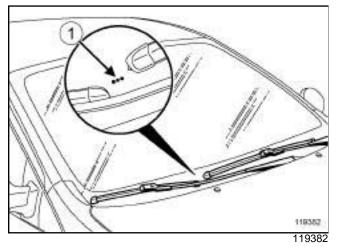
Remove the windscreen wiper arms (4) using the (Ele. 1294-01) (5).



LEFT-HAND DRIVE

REFITTING

REFITTING OPERATION FOR PART CONCERNED



- □ Fit the windscreen wiper arms in the position marked before the removal operation (1).
- □ Refit the wiper arm nuts.
- □ Torque tighten the **wiper arm nuts (21 Nm)**.
- □ Refit the wiper arm nut covers.

WIPING - WASHING Windscreen wiper arm: Removal - Refitting



RIGHT-HAND DRIVE

Special tooling required	
--------------------------	--

Ele. 1294-01

Tool for removing wiper arms.

Tightening torques 灾

wiper arm nuts

21 Nm

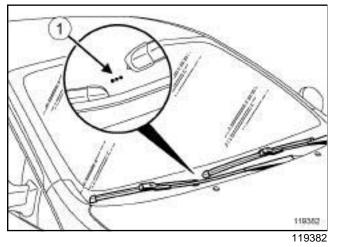
REMOVAL

I - REMOVAL PREPARATION OPERATION

WARNING

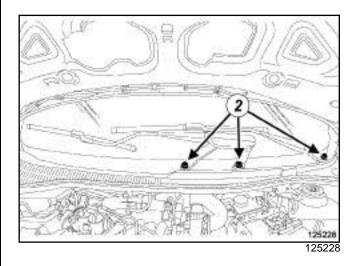
To ensure that the wiper arms can travel smoothly, the wiper motor must be initialised.

- □ Switch on the ignition.
- Move the wiper stalk from (0) to (1), then from (1) to (0).
- □ Switch off the ignition.

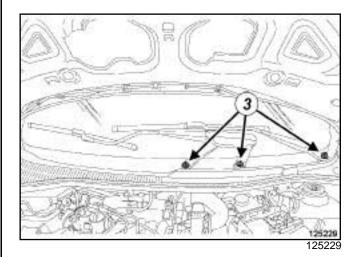


Usually mark the position of the wiper arms (1).

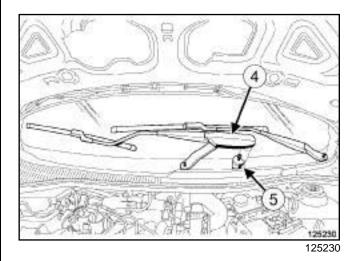
II - REMOVAL OPERATION FOR PART CONCERNED



□ Remove the nut covers (2).



□ Remove nuts (3).



Remove the windscreen wiper arms (4) using the (Ele. 1294-01) (5).



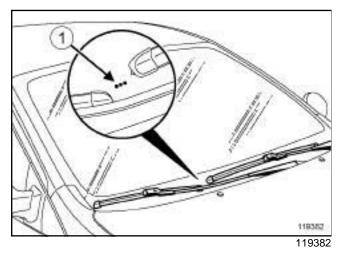
RIGHT-HAND DRIVE

REFITTING

REFITTING OPERATION FOR PART CONCERNED

WARNING

- □ Switch on the ignition.
- Move the wiper stalk from (0) to (1), then from (1) to (0).
- □ Switch off the ignition.



- □ Fit the windscreen wiper arms in the position marked before the removal operation (1).
- Refit the wiper arm nuts.
- □ Torque tighten the **wiper arm nuts (21 Nm)**.
- □ Refit the wiper arm nut covers.

Windscreen wiper mechanism: Removal - Refitting

LEFT-HAND DRIVE

REMOVAL

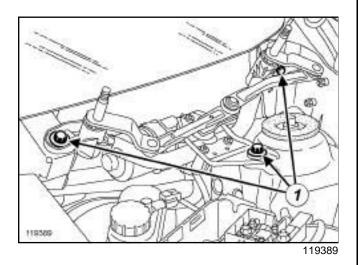
I - REMOVAL PREPARATION OPERATION

WARNING

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

- □ Switch on the ignition.
- Move the wiper stalk from (0) to (1), then from (1) to (0).
- □ Switch off the ignition.
- □ Disconnect the battery (see 80A, Battery, Battery: Removal Refitting, page 80A-2).
- □ Remove:
 - the windscreen wiper arms (see **85A**, **Wiping -Washing**, **Windscreen wiper arm: Removal - Refitting**, page **85A-6**),
 - the scuttle panel grille (see **Scuttle panel grille: Removal Refitting**) (MR 412, 56A, Exterior equipment).

II - REMOVAL OPERATION FOR PART CONCERNED



- Remove:
 - the front windscreen wiper mechanism bolts (1),
 - the windscreen wiper mechanism.
- Disconnect the windscreen wiper motor connector.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- Connect the windscreen wiper motor connector.
- Refit:
 - the windscreen wiper mechanism,
 - the windscreen wiper mechanism bolts.

II - FINAL OPERATION.

- Refit the scuttle panel grille (see Scuttle panel grille: Removal - Refitting) (MR 412, 56A, Exterior equipment).
- Connect the battery (see 80A, Battery, Battery: Removal Refitting, page 80A-2).

WARNING

- Move the wiper stalk from (0) to (1), then from (1) to (0).
- Refit the windscreen wiper arms (see 85A, Wiping -Washing, Windscreen wiper arm: Removal - Refitting, page 85A-6).

WIPING - WASHING

Windscreen wiper mechanism: Removal - Refitting

RIGHT-HAND DRIVE

REMOVAL

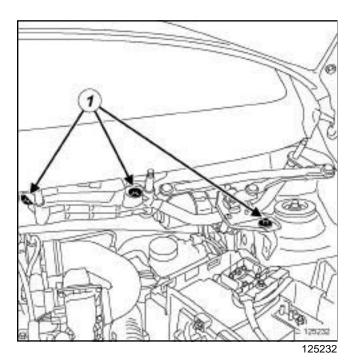
I - REMOVAL PREPARATION OPERATION

WARNING

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

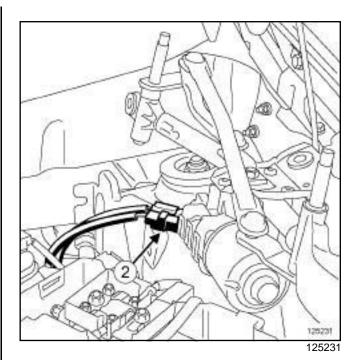
- □ Switch on the ignition.
- Move the wiper stalk from (0) to (1), then from (1) to (0).
- □ Switch off the ignition.
- □ Disconnect the battery (see 80A, Battery, Battery: Removal Refitting, page 80A-2).
- □ Remove:
 - the windscreen wiper arms (see **85A**, **Wiping -Washing**, **Windscreen wiper arm: Removal - Re fitting**, page **85A-6**),
 - the scuttle panel grille (see **Scuttle panel grille: Removal Refitting**) (MR 412, 56A, Exterior equipment).

II - REMOVAL OPERATION FOR PART CONCERNED



Remove:

- the front windscreen wiper mechanism bolts $\left(1\right)$,
- the windscreen wiper mechanism.



Disconnect the windscreen wiper motor connector
 (2).

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- □ Connect the windscreen wiper motor connector.
- Refit:
 - the windscreen wiper mechanism,
 - the windscreen wiper mechanism bolts.

II - FINAL OPERATION.

- Refit the scuttle panel grille (see Scuttle panel grille: Removal Refitting) (MR 412, 56A, Exterior equipment).
- Connect the battery (see 80A, Battery, Battery: Removal Refitting, page 80A-2).

WARNING

- Move the wiper stalk from (0) to (1), then from (1) to (0).
- Refit the windscreen wiper arms (see 85A, Wiping -Washing, Windscreen wiper arm: Removal - Refitting, page 85A-6).

WIPING - WASHING Windscreen wiper motor: Removal - Refitting

85A

LEFT-HAND DRIVE

REMOVAL

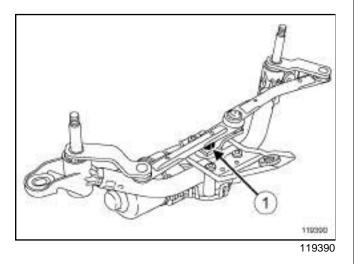
I - REMOVAL PREPARATION OPERATION

WARNING

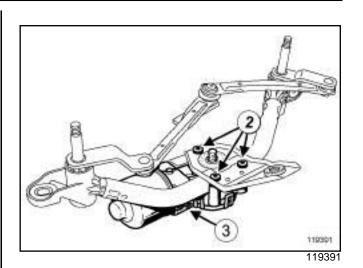
To ensure that the wiper arms can travel smoothly, the wiper motor must be initialised.

- □ Switch on the ignition.
- Move the wiper stalk from (0) to (1), then from (1) to (0).
- □ Switch off the ignition.
- □ Disconnect the battery (see 80A, Battery, Battery: Removal Refitting, page 80A-2).
- □ Remove:
 - the windscreen wiper arms (see **85A**, **Wiping -Washing**, **Windscreen wiper arm: Removal - Refitting**, page **85A-6**),
 - the scuttle panel grille (see **Scuttle panel grille: Removal Refitting**) (MR 412, 56A, Exterior equipment),
 - the front windscreen wiper mechanism (see 85A, Wiping - Washing, Windscreen wiper mechanism: Removal - Refitting, page 85A-10).

II - REMOVAL OPERATION FOR PART CONCERNED



- $\hfill\square$ Remove the windscreen wiper motor shaft nut (1) .
- Extract the mechanism drive linkage from the windscreen wiper motor shaft.



Remove:

- the bolts (2) from the windscreen wiper motor,
- the windscreen wiper motor (3) .

REFITTING

I - REFITTING PREPARATIONS OPERATION

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

WARNING

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

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

II - REFITTING OPERATION FOR PART CONCERNED

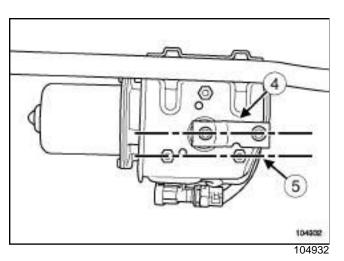
Refit:

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

WIPING - WASHING Windscreen wiper motor: Removal - Refitting



LEFT-HAND DRIVE



Refit:

- the mechanism drive linkage (4) , ensuring that it is parallel to the axis connecting the two windscreen wiper motor lower bolts (5) ,
- the windscreen wiper motor shaft nut.

III - FINAL OPERATION.

- Refit:
 - the windscreen wiper mechanism (see 85A, Wiping Washing, Windscreen wiper mechanism: Removal Refitting, page 85A-10),
 - the scuttle panel grille (see **Scuttle panel grille: Removal Refitting**) (MR 412, 56A, Exterior equipment).
- Connect the battery (see 80A, Battery, Battery: Removal - Refitting, page 80A-2).

WARNING

- Move the wiper stalk from (0) to (1), then from (1) to (0).
- Refit the front wiper arms (see 85A, Wiping -Washing, Windscreen wiper arm: Removal - Refitting, page 85A-6).

Windscreen wiper motor: Removal - Refitting



RIGHT-HAND DRIVE

REMOVAL

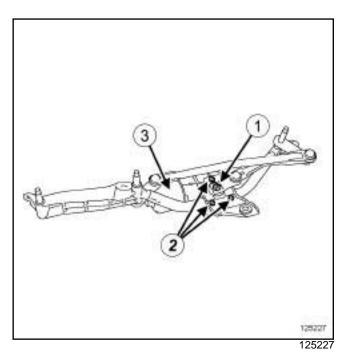
I - REMOVAL PREPARATION OPERATION

WARNING

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

- Switch on the ignition.
- Move the wiper stalk from (0) to (1), then from (1) to (0).
- □ Switch off the ignition.
- □ Disconnect the battery (see 80A, Battery, Battery: Removal Refitting, page 80A-2).
- □ Remove:
 - the windscreen wiper arms (see **85A**, **Wiping -Washing**, **Windscreen wiper arm: Removal - Refitting**, page **85A-6**),
 - the scuttle panel grille (see **Scuttle panel grille: Removal Refitting**) (MR 412, 56A, Exterior equipment),
 - the front windscreen wiper mechanism (see 85A, Wiping - Washing, Windscreen wiper mechanism: Removal - Refitting, page 85A-10).

II - REMOVAL OPERATION FOR PART CONCERNED



- □ Remove the windscreen wiper motor shaft nut (1).
- Extract the mechanism drive linkage from the windscreen wiper motor shaft.
- Remove:
 - the bolts (2) from the windscreen wiper motor,
 - the windscreen wiper motor (3) .

REFITTING

I - REFITTING PREPARATIONS OPERATION

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

WARNING

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

Windscreen wiper motor: Removal - Refitting

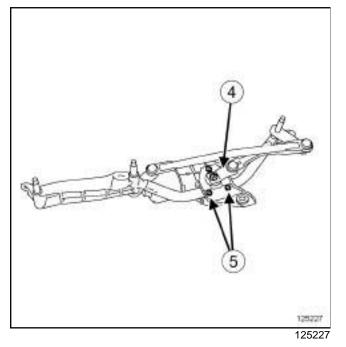


RIGHT-HAND DRIVE

II - REFITTING OPERATION FOR PART CONCERNED

Refit:

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



Refit:

- the mechanism drive linkage (4), ensuring that it is parallel to the axis connecting the two windscreen wiper motor lower bolts (5),
- the windscreen wiper motor shaft nut.

III - FINAL OPERATION.

- Refit:
 - the windscreen wiper mechanism (see 85A, Wiping Washing, Windscreen wiper mechanism: Removal Refitting, page 85A-10),
 - the scuttle panel grille (see **Scuttle panel grille: Removal Refitting**) (MR 412, 56A, Exterior equipment).
- Connect the battery (see 80A, Battery, Battery: Removal - Refitting, page 80A-2).

WARNING

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

Move the wiper stalk from (0) to (1), then from (1) to (0).

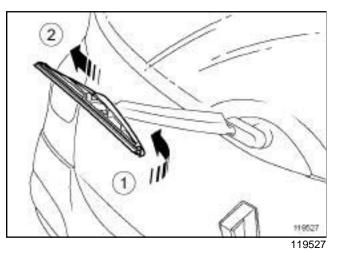
Refit the windscreen wiper arms (see 85A, Wiping -Washing, Windscreen wiper arm: Removal - Refitting, page 85A-6).



I - REMOVAL PREPARATION OPERATION

□ Switch off the ignition.

II - REMOVAL OPERATION FOR PART CONCERNED



Deliver the rear screen wiper blade (1).

 $\hfill\square$ Unclip the rear screen wiper blade (2) .

REFITTING

REFITTING OPERATION FOR PART CONCERNED

□ Clip the blade onto the rear screen wiper arm.

WIPING - WASHING Rear screen wiper arm: Removal - Refitting



Special tooling required

Ele. 1552

Tool for removing rear screen wiper arms.

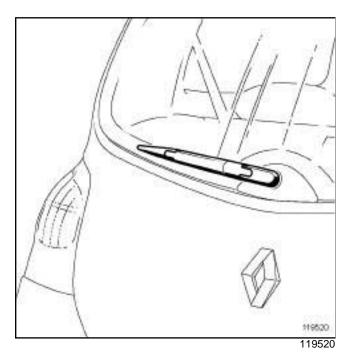
REMOVAL

I - REMOVAL PREPARATION OPERATION

WARNING

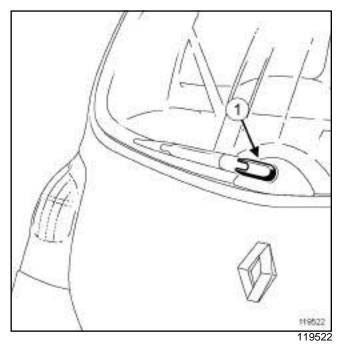
To ensure that the wiper arms can travel smoothly, the wiper motor must be initialised.

- □ Switch on the ignition.
- Move the wiper stalk from (0) to (1), then from (1) to (0).
- □ Switch off the ignition.

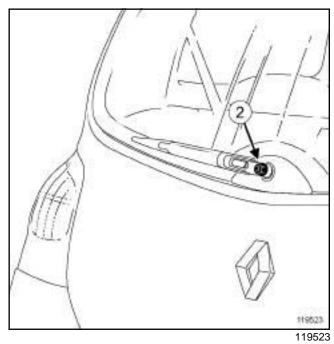


Visually mark the position of the rear screen wiper arm for the refitting operation.

II - REMOVAL OPERATION FOR PART CONCERNED



 $\hfill\square$ Open the rear screen wiper arm nut cover (1) .



Remove:

- the nut (2) from the rear screen wiper arm,
- the rear screen wiper arm using the (Ele. 1552).



REFITTING

REFITTING OPERATION FOR PART CONCERNED

Refit:

- the rear screen wiper arm in the position marked before the removal operation,
- the rear screen wiper arm nut.
- □ Close the rear screen wiper arm nut cover.



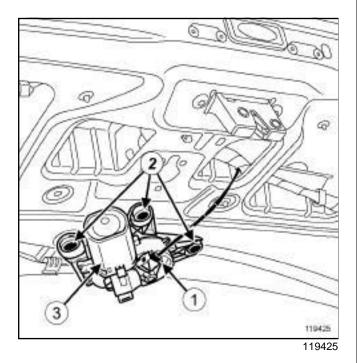
I - REMOVAL PREPARATION OPERATION

WARNING

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

- Move the wiper stalk from (0) to (1), then from (1) to (0).
- □ Remove:
 - the rear screen wiper arm (see **85A**, **Wiping Washing**, **Rear screen wiper arm: Removal Refitting**, page **85A-17**),
 - the tailgate trim (see **Tailgate trim: Removal Re-fitting**) (MR 412, 73A, Non-side opening elements trim).

II - OPERATION FOR REMOVAL OF PART CONCERNED



- Disconnect the connector (1) from the rear screen wiper motor.
- Remove:
 - the rivets (2) from the rear screen wiper motor (see **Riveted connection: Description**) (MR 400, 40A, General information),
 - the rear screen wiper motor (3) .

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

Refit:

- the rear screen wiper motor ,
- the rear screen wiper motor rivets (see **Riveted connection: Description**) (MR 400, 40A, General information).
- Connect the rear screen wiper motor connector.

II - FINAL OPERATION.

Refit the tailgate trim (see Tailgate trim: Removal -Refitting) (MR 412, 73A, Non-side opening elements trim).

WARNING

- Move the wiper stalk from (0) to (1), then from (1) to (0).
- Refit the rear screen wiper arm (see 85A, Wiping -Washing, Rear screen wiper arm: Removal - Refitting, page 85A-17).

WIPING - WASHING

Rain and light sensor: Removal - Refitting



LIGHTS + AUTOMATIC WINDSCREEN WIPER

Special tooling required

Car. 1363

1363 Set of trim removal levers.

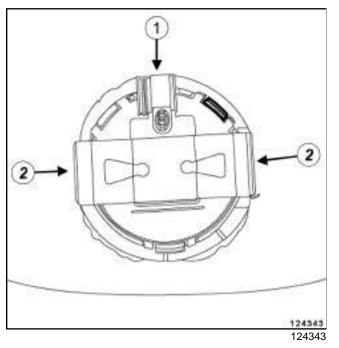
REMOVAL

I - REMOVAL PREPARATION OPERATION

Remove the covers from the interior rear-view mirror (see Interior rear-view mirror: Removal - Refitting) (MR 412, 57A, Interior equipment).

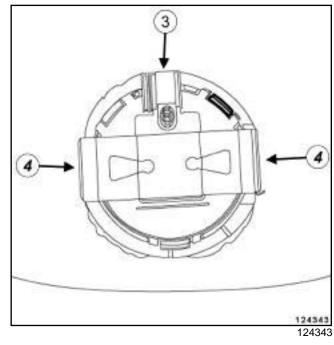
II - REMOVAL OPERATION FOR PART CONCERNED

1 - Replacing the rain sensor



- $\hfill\square$ Disconnect the connector at (1) .
- □ Unclip the two side clips (2) from the rain and light sensor using the (Car. 1363),
- □ Remove the rain and light sensor.

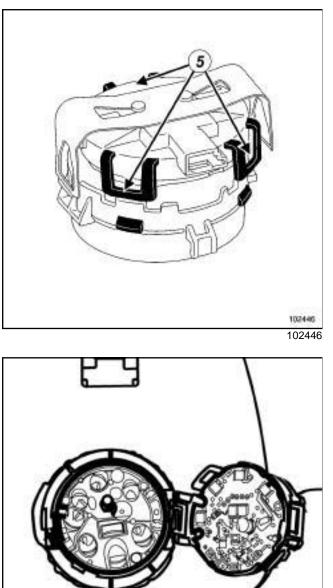
2 - Replace the windscreen



- $\hfill\square$ Disconnect the connector at $(\mathbf{3})$.
- □ Unclip the two side clips (4) from the rain and light sensor using the (Car. 1363),



LIGHTS + AUTOMATIC WINDSCREEN WIPER



124344 124344

Unclip:

- the clips (5) from the rain and light sensor's printed circuit unit using the (Car. 1363).
- Remove the rain and light sensor's printed circuit unit.

REFITTING

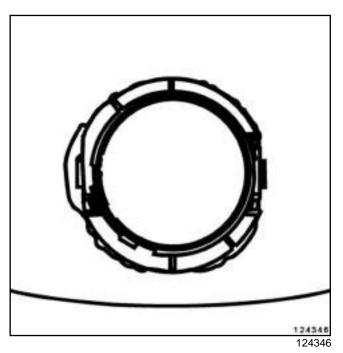
- I REFITTING PREPARATIONS OPERATION

WARNING

Remove and refit the rain sensor in totally clean conditions: any dust or cloth residue could cause a malfunction.

Do not touch the electronic part of the sensor. Fit the sensor to the vehicle immediately after removing it from its packaging.

1 - Replacing the rain and light sensor

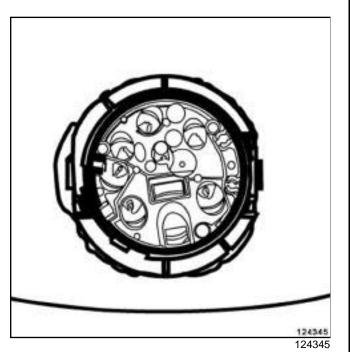


□ Clean the windscreen using the (Car. 1363).



LIGHTS + AUTOMATIC WINDSCREEN WIPER

2 - Replace the windscreen



Apply the adhesive base to the new windscreen.

II - REFITTING OPERATION FOR PART CONCERNED

1 - Replacing the rain and light sensor

- □ Fit the rain and light sensor.
- □ Clip on the rain and light sensor.
- □ Connect the rain and light sensor connector.

2 - Replace the windscreen

- Clip on:
 - the rain and light sensor printed circuit unit onto the adhesive base,
 - the rain and light sensor.
- □ Connect the rain and light sensor connector.

III - FINAL OPERATION.

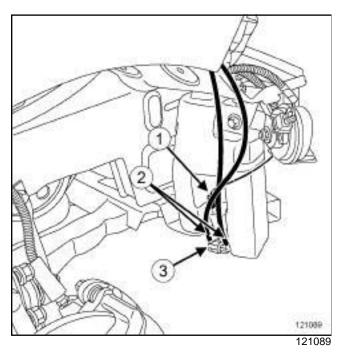
 Refit the covers on the interior rear-view mirror (see Interior rear-view mirror: Removal - Refitting) (MR 412, 57A, Interior equipment).



I - REMOVAL PREPARATION OPERATION

- Position the vehicle on a two-post lift (see Vehicle: Towing and lifting) (MR 411, 02A, Lifting equipment).
- Remove:
 - the front right-hand wheel (see **Wheel: Removal - Refitting**) (MR 411, 35A, Wheels and tyres),
 - the front right-hand wheel arch liner (see **Front wheel arch liner: Removal Refitting**) (MR 412, 55A, Exterior protection).

II - OPERATION FOR REMOVAL OF PART CONCERNED



Note:

When removing the windscreen washer pump, use a container to collect the windscreen washer fluid which will flow out of the bottle.

Note:

Mark the routing of the supply pipes and wiring.

- Disconnect:
 - -the connector (1) from the windscreen washer pump,
 - the windscreen washer pump supply pipes (2) .
- □ Remove the windscreen washer pump (3).

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

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

II - FINAL OPERATION.

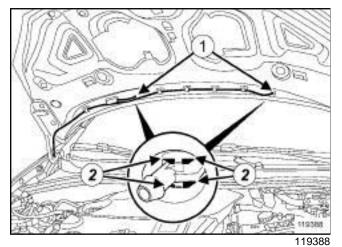
Refit:

- the front right-hand wheel arch liner (see **Front wheel arch liner: Removal Refitting**) (MR 412, 55A, Exterior protection),
- the front right-hand wheel (see **Wheel: Removal - Refitting**) (MR 411, 35A, Wheels and tyres).
- □ Fill the windscreen washer bottle.



OPERATION FOR REMOVAL OF PART CONCERNED

Open the bonnet.



- Disconnect the windscreen washer jet supply pipes
 (1).
- □ Pinch the windscreen washer jet tabs (2).
- Extract the windscreen washer jets towards the outside of the bonnet.

REFITTING

REFITTING OPERATION FOR PART CONCERNED

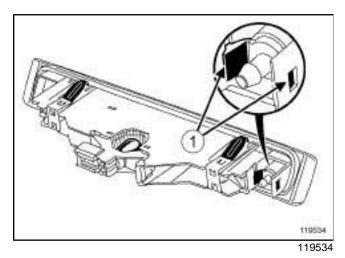
- □ Clip the windscreen washer jets onto the bonnet.
- □ Connect the windscreen washer jet supply pipes.
- Close the bonnet.



I - REMOVAL PREPARATION OPERATION

Remove the high level brake light (see 81A, Rear lighting, 3rd brake light: Removal - Refitting, page 81A-6).

II - OPERATION FOR REMOVAL OF PART CONCERNED



Unclip the rear screen washer jet by pressing on the clips (1).

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

Clip the rear screen washer jet on the high level brake light.

II - FINAL OPERATION.

Refit the high level brake light (see 81A, Rear lighting, 3rd brake light: Removal - Refitting, page 81A-6).

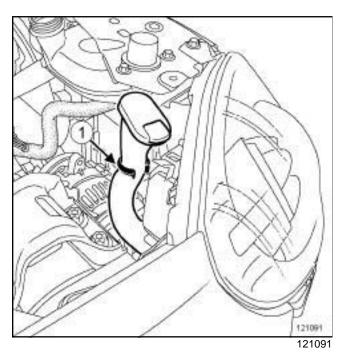
WIPING - WASHING Windscreen washer reservoir: Removal - Refitting



REMOVAL

I - REMOVAL PREPARATION OPERATION

Position the vehicle on a two-post lift (see Vehicle: Towing and lifting) (MR 411, 02A, Lifting equipment).



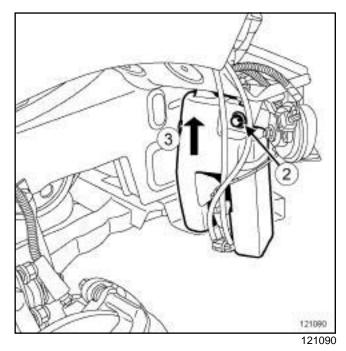
- □ Unclip the windscreen washer bottle neck (1).
- Remove:
 - the front wheels (see **Wheel: Removal Refitting**) (MR 411, 35A, Wheels and tyres),
 - the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (MR 412, 55A, Exterior protection),
 - the front bumper (see **Front bumper: Removal - Refitting**) (MR 412, 55A, Exterior protection),
 - the right-hand headlight (see **80B**, **Headlights**, **Halogen headlight: Removal Refitting**, page **80B-7**).

Note:

When removing the windscreen washer pump, use a container to collect the windscreen washer fluid which will flow out of the bottle.

 Remove the windscreen washer pump (see 85A, Wiping - Washing, Screen washer pump: Removal - Refitting, page 85A-23).

II - OPERATION FOR REMOVAL OF PART CONCERNED



- □ Remove the windscreen washer bottle bolt (2).
- Lift the windscreen washer bottle (3) .
- Remove the windscreen washer bottle from the bottom.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

Refit:

- the windscreen washer bottle,
- the windscreen washer bottle bolt.
- □ Clip on the windscreen washer bottle neck.

II - FINAL OPERATION.

- Refit:
 - the windscreen washer pump (see 85A, Wiping -Washing, Screen washer pump: Removal - Refitting, page 85A-23) ,
 - the right-hand headlight (see 80B, Headlights, Halogen headlight: Removal - Refitting, page 80B-7),
 - the front bumper (see Front bumper: Removal Refitting) (MR 412, 55A, Exterior protection),
 - the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (MR 412, 55A, Exterior protection),

Windscreen washer reservoir: Removal - Refitting



- the front wheels (see **Wheel: Removal Refitting**) (MR 411, 35A, Wheels and tyres).
- □ Fill the windscreen washer bottle.
- □ Adjust the headlight beam (see 80B, Headlights, Halogen headlight: Adjustment, page 80B-9).

RADIO

Radio: List and location of components



WITH 2 SPEAKERS, WITHOUT RADIO or WITH 4 SPEAKERS, WITHOUT RADIO or RADIO NO. 01 or RADIO NO. 03

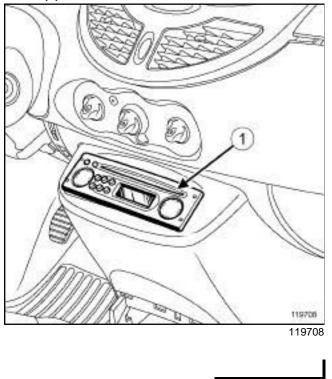
I - LIST OF COMPONENTS

No.	Description
(1)	Radio
(2)	Display
(3)	Radio control satellite
(4)	Radio aerial
(5)	Tweeters
(6)	Front speakers
(7)	Rear speakers
(8)	Offset audio socket (mp3)

II - LOCATION OF COMPONENTS

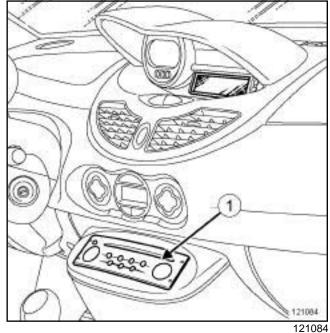
RADIO NO. 01

Radio (1)



RADIO NO. 03

Radio (1)





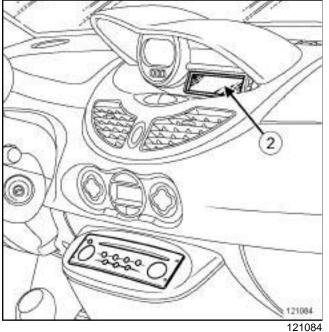
RADIO Radio: List and location of components



WITH 2 SPEAKERS, WITHOUT RADIO or WITH 4 SPEAKERS, WITHOUT RADIO or RADIO NO. 01 or RADIO NO. 03

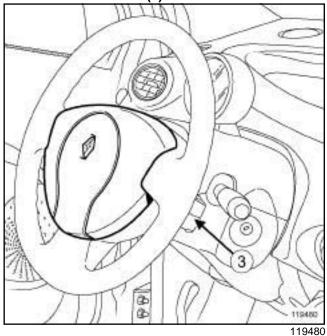
RADIO NO. 03

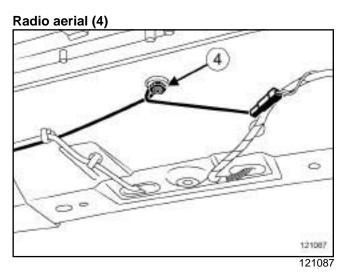
Display (2)



WITH 4 SPEAKERS, WITHOUT RADIO or RADIO NO. 01 or RADIO NO. 03

Radio control satellite (3)



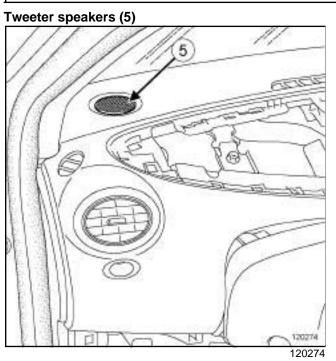


The radio aerial is located on the roof at the rear of the vehicle.

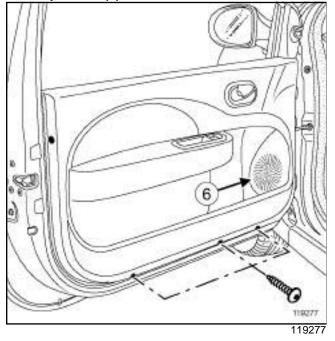
RADIO Radio: List and location of components



WITH 2 SPEAKERS, WITHOUT RADIO or WITH 4 SPEAKERS, WITHOUT RADIO or RADIO NO. 01 or RADIO NO. 03

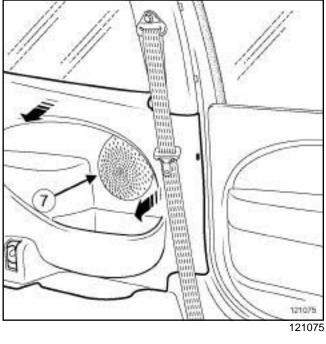


Front speakers (6)



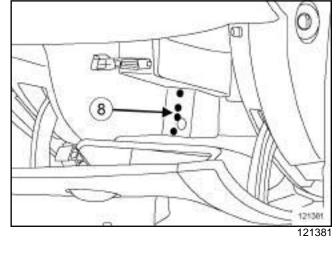
WITH 4 SPEAKERS, WITHOUT RADIO or RADIO NO. 03

Rear speakers (7)



RADIO NO. 03

Offset audio socket (mp3) (8)





RADIO NO. 01 or RADIO NO. 03

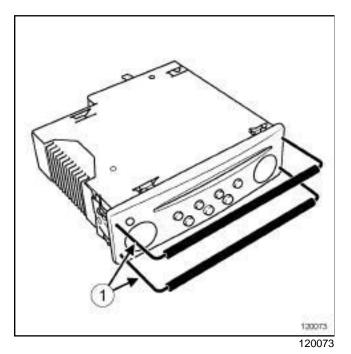
Special tooling required		
Ms. 1373	Tool for removing radios or chronotachographs.	

REMOVAL

I - REMOVAL PREPARATION OPERATION

□ Switch off the ignition.

II - OPERATION FOR REMOVAL OF PART CONCERNED



□ Remove the radio using two (Ms. 1373) (1).

- □ Mark the routing of the wiring behind the radio.
- Disconnect the audio equipment connectors.
- □ Mark the routing of the aerial cable behind the radio.
- Disconnect the aerial cable from the radio.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- □ Connect the aerial cable to the radio.
- Clip the aerial cable into the position marked during removal.
- □ Connect the radio connectors.
- □ Fit the wiring in the position marked during removal.

Refit the radio.

II - FINAL OPERATION.

 Carry out the necessary operations (see Fault finding - Replacement of components) (MR 413, 86A, Radio).



WITH 2 SPEAKERS, WITHOUT RADIO or WITH 4 SPEAKERS, WITHOUT RADIO or RADIO NO. 01 or RADIO NO. 03

REMOVAL

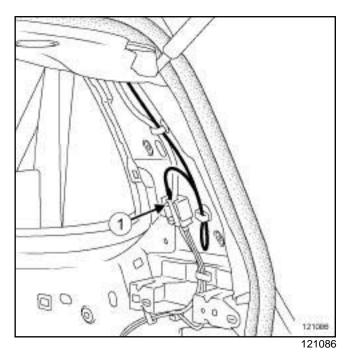
I - REMOVAL PREPARATION OPERATION

- □ Remove:
 - the front seat belt upper bolt (see **Front seat belt: Removal Refitting**) (MR 412, 59A, Safety equipment),
 - the rear seat belt upper bolt (see **Rear seat belt: Removal Refitting**) (MR 412, 59A, Safety equipment),
 - the sun visor (see **Sun visor: Removal Refitting**) (MR 412, 57A, Interior equipment),
 - the interior equipment covers (see **Interior rearview mirror: Removal - Refitting**) (MR 412, 57A, Interior equipment),
 - the A-pillar trims (see **Windscreen pillar trim: Removal - Refitting**) (MR 412, 71A, Body internal trim),
 - the rear parcel shelf side trims (see **Rear parcel shelf side trim: Removal Refitting**) (MR 412, 71A, Body internal trim),
 - the rear panel trims (see **Rear panel lining: Removal - Refitting**) (MR 412, 71A, Body internal trim),
 - the rear quarter panel trims (see **Quarter panel trim: Removal Refitting**) (MR 412, 71A, Body internal trim),
 - the B-pillar upper trims (see **B-pillar upper trim: Removal Refitting**) (MR 412, 71A, Body internal trim),
 - the headlining (see **Headlining: Removal Refitting**) (MR 412, 71A, Body internal trim).

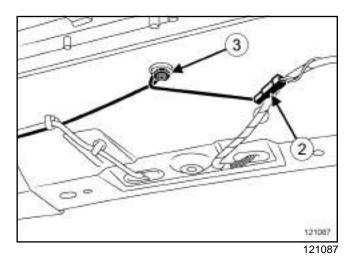
OPENING ROOF

- □ Disconnect the battery (see 80A, Battery, Battery: Removal Refitting, page 80A-2).
- Remove the sunroof "motor computer" assembly (see 87D, Electric windows - Sunroof, Sunroof opening motor: Removal - Refitting, page 87D-7)

II - OPERATION FOR REMOVAL OF PART CONCERNED



Disconnect the radio aerial connector (1).



- Disconnect the radio aerial connector (2) .
- Remove:
 - the radio aerial nut (3),
 - the radio aerial.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- Refit:
 - the radio aerial,

Radio aerial: Removal - Refitting



WITH 2 SPEAKERS, WITHOUT RADIO or WITH 4 SPEAKERS, WITHOUT RADIO or RADIO NO. 01 or RADIO NO. 03

- the radio aerial nut.
- □ Connect the radio aerial connectors.

II - FINAL OPERATION.

OPENING ROOF

- Refit the sunroof "motor computer" assembly (see 87D, Electric windows - Sunroof, Sunroof opening motor: Removal - Refitting, page 87D-7).
- Refit:
 - the headlining (see **Headlining: Removal Refit-ting**) (MR 412, 71A, Body internal trim),
 - the B-pillar left-hand upper trims (see **B-pillar upper trim: Removal Refitting**) (MR 412, 71A, Body internal trim),
 - the rear quarter panel trims (see **Quarter panel trim: Removal Refitting**) (MR 412, 71A, Body internal trim),
 - the rear panel trims (see **Rear panel lining: Removal - Refitting**) (MR 412, 71A, Body internal trim),
 - the rear parcel shelf side trims (see **Rear parcel shelf side trim: Removal Refitting**) (MR 412, 71A, Body internal trim),
 - the A-pillar trims (see **Windscreen pillar trim: Removal - Refitting**) (MR 412, 71A, Body internal trim),
 - the interior equipment covers (see **Interior rearview mirror: Removal - Refitting**) (MR 412, 57A, Interior equipment),
 - the sun visor (see **Sun visor: Removal Refitting**) (MR 412, 57A, Interior equipment),
 - the rear seat belt upper bolt (see **Rear seat belt: Removal Refitting**) (MR 412, 59A, Safety equipment),
 - the front seat belt upper bolt (see **Front seat belt: Removal Refitting**) (MR 412, 59A, Safety equipment).

OPENING ROOF

- Connect the battery (see 80A, Battery, Battery: Removal Refitting, page 80A-2).
- Carry out the necessary operations without the diagnostic tool (see Battery: Initialisation) (MR 413, 80A, Battery).

Tweeter: Removal - Refitting



WITH 2 SPEAKERS, WITHOUT RADIO or WITH 4 SPEAKERS, WITHOUT RADIO or RADIO NO. 01 or RADIO NO. 03

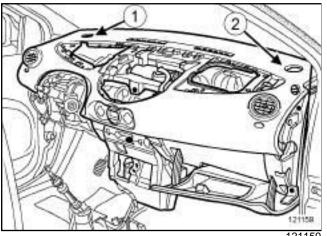
Special tooling required

Car. 1363

Set of trim removal levers.

REMOVAL

OPERATION FOR REMOVAL OF PART CONCERNED



- 121159
- Unclip the tweeter speaker using the (Car. 1363) positioned at (1) or at (2).
- Disconnect the tweeter speaker.
- Remove tweeter .
- □ Separate the tweeter speaker grille from the tweeter speaker.

REFITTING

REFITTING OPERATION FOR PART CONCERNED

- □ Clip the tweeter speaker grille onto the tweeter speaker.
- □ Connect the tweeter speaker.
- □ Clip on the tweeter speaker.

Front speakers: Removal - Refitting



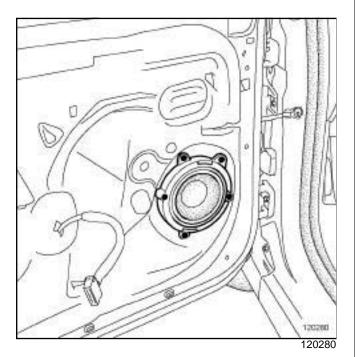
WITH 2 SPEAKERS, WITHOUT RADIO or WITH 4 SPEAKERS, WITHOUT RADIO or RADIO NO. 01 or RADIO NO. 03

REMOVAL

I - REMOVAL PREPARATION OPERATION

Remove the front side door trim (see Front side door trim: Removal - Refitting) (MR 412, 72A, Side opening element trim).

II - OPERATION FOR REMOVAL OF PART CONCERNED



- □ Remove the front speaker bolts.
- □ Extract the front speaker.
- Disconnect the front speaker connector.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- □ Connect the front speaker connector.
- refit:
 - the front speaker,
 - the front speaker bolts.

II - FINAL OPERATION.

Refit the front side door trim (see Front side door trim: Removal - Refitting) (MR 412, 72A, Side opening element trim).

Rear speakers: Removal - Refitting



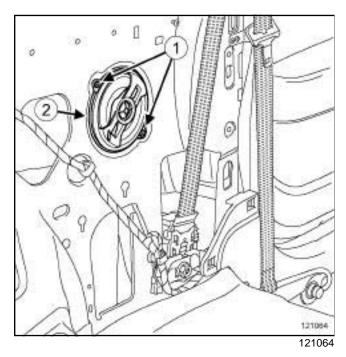
WITH 4 SPEAKERS, WITHOUT RADIO or RADIO NO. 03

REMOVAL

I - REMOVAL PREPARATION OPERATION

- □ Remove:
 - the rear parcel shelf side trim (see **Rear parcel shelf side trim: Removal Refitting**) (MR 412, 71A, Body internal trim),
 - the rear panel trim (see **Rear panel lining: Remo**val - **Refitting**) (MR 412, 71A, Body internal trim).

II - OPERATION FOR REMOVAL OF PART CONCERNED



Remove:

- the rear speaker bolts (1) ,
- the rear speaker $\left(2\right)$.
- Disconnect the rear speaker connector.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

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

II - FINAL OPERATION.

Refit:

- the rear panel trim (see **Rear panel lining: Remo**val - Refitting) (MR 412, 71A, Body internal trim),
- the rear parcel shelf side trim (see **Rear parcel** shelf side trim: **Removal Refitting**) (MR 412, 71A, Body internal trim).

RADIO NO. 03

REMOVAL

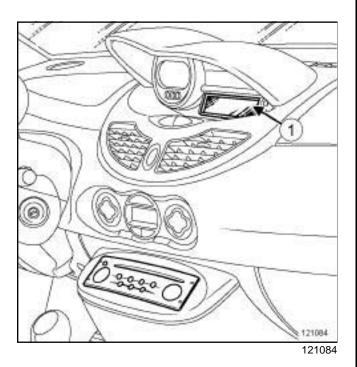
- I REMOVAL PREPARATION OPERATION

Note:

The radio display is built into the instrument panel and cannot be separated.

□ In the event of a replacement operation, carry out the necessary operations (see Fault finding - Replacement of components) (MR 413, 83A, Instrument panel).

II - OPERATION FOR REMOVAL OF PART CONCERNED



Remove the instrument panel (1) (see 83A, Instrument panel, Instrument panel: Removal - Refitting, page 83A-1).

REFITTING

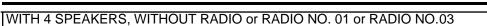
I - REFITTING OPERATION FOR PART CONCERNED

Refit the instrument panel (see 83A, Instrument panel, Instrument panel: Removal - Refitting, page 83A-1).

II - FINAL OPERATION.

□ In the event of a replacement operation, carry out the necessary operations (see Fault finding - Replacement of components) (MR 413, 83A, Instrument panel).

RADIO Radio control satellite: Removal - Refitting

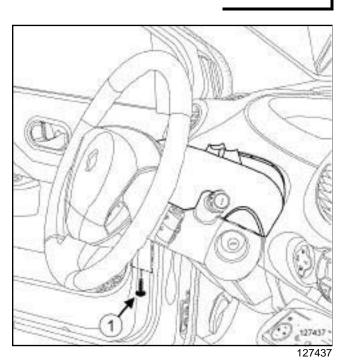


REMOVAL

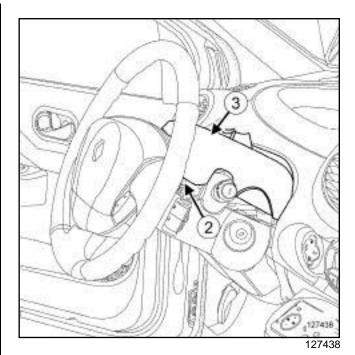
I - REMOVAL PREPARATION OPERATION

ENGINE REV COUNTER

Remove the rev counter (see 83A, Instrument panel, Rev counter: Removal - Refitting, page 83A-3).

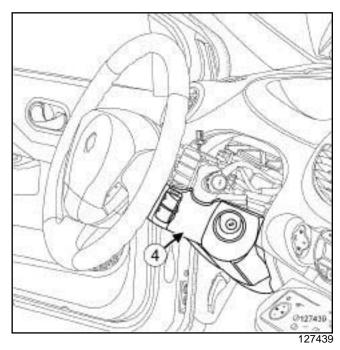


□ Remove the lower cover bolts (1).



86A

- $\hfill\square$ Unclip the upper cover at (2) .
- $\hfill\square$ Remove the upper cover (3) .

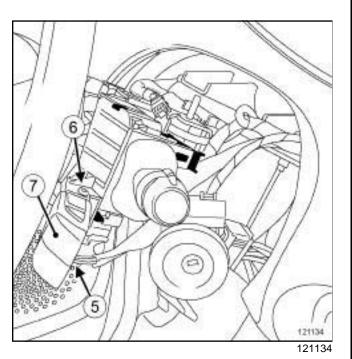


 $\hfill\square$ Remove the lower cover (4) .



WITH 4 SPEAKERS, WITHOUT RADIO or RADIO NO. 01 or RADIO NO.03

II - OPERATION FOR REMOVAL OF PART CONCERNED



- □ Disconnect the connector (5) from the radio control satellite.
- □ Remove:
 - the bolt (6) from the radio control satellite,
 - the radio control satellite $(\mathbf{7})$.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- Refit the radio control satellite on the steering column switches.
- □ Connect the radio control satellite connector.

II - FINAL OPERATION.

- Refit:
 - the lower cover,
 - the upper cover.

ENGINE REV COUNTER

□ Refit the rev counter (see 83A, Instrument panel, Rev counter: Removal - Refitting, page 83A-3).

RADIO

Offset multimedia socket: Removal - Refitting



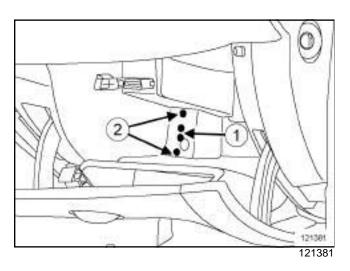
RADIO NO. 03

REMOVAL

I - REMOVAL PREPARATION OPERATION

- □ Remove:
 - the radio (see 86A, Radio, Radio: Removal Refitting, page 86A-4),
 - the centre console (see **Centre console: Removal** - **Refitting**) (MR 412, 57A, Interior equipment),
 - the centre front panel (see **Centre front panel: Removal - Refitting**) (MR 412, 57A, Interior equipment).

II - OPERATION FOR REMOVAL OF PART CONCERNED



- Mark the routing of the offset audio socket wiring (1) behind the radio.
- Remove:
 - the bolts $\left(2\right)$,
 - the offset audio connection.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- Refit:
 - the offset audio connection,
 - the offset audio socket bolts.
- □ Fit the wiring of the offset audio socket in the position marked during the removal operation.

II - FINAL OPERATION.

Refit:

- the centre front panel (see Centre front panel: Removal - Refitting) (MR 412, 57A, Interior equipment),
- the centre console (see **Centre console: Removal** - **Refitting**) (MR 412, 57A, Interior equipment),
- the radio (see 86A, Radio, Radio: Removal Refitting, page 86A-4).

CAR PHONE Car phone: List and location of components

HANDS-FREE TELEPHONE KIT

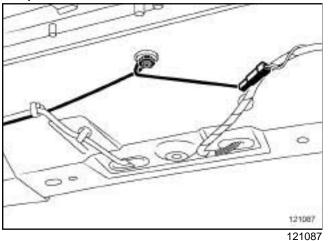
I - LIST OF COMPONENTS

The « car phone » consists of:

- a telephone aerial
- a computer
- a "hands-free" microphone
- a telephone control on the steering wheel

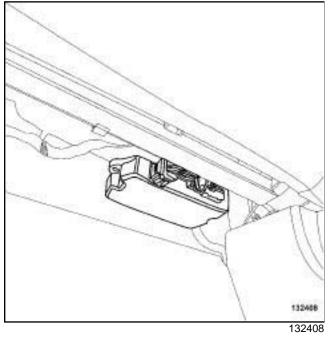
II - LOCATION OF COMPONENTS

Telephone aerial



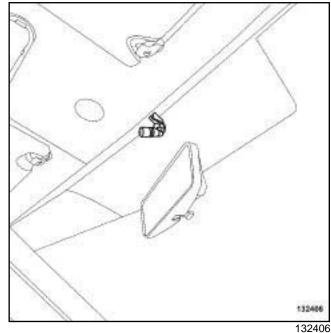
To remove the telephone aerial (see **86A**, **Radio**, **Radio** aerial: **Removal - Refitting**, page **86A-5**).

Computer

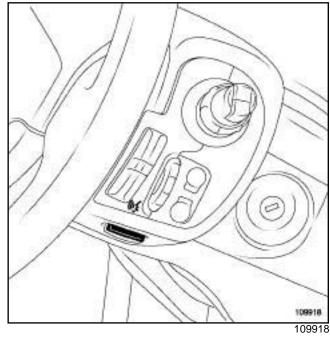


The computer is secured under the glovebox by a self-fastening strip.

"Hands-free" microphone



Telephone control on the steering wheel



To remove the car phone control on the steering wheel (see 86A, Radio, Radio control satellite: Removal - Refitting, page 86A-11).



CAR PHONE "Hands-free" microphone: Removal - Refitting

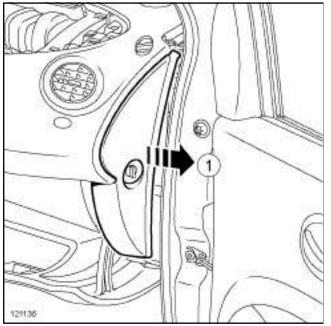


HANDS-FREE TELEPHONE KIT

REMOVAL

I - REMOVAL PREPARATION OPERATION

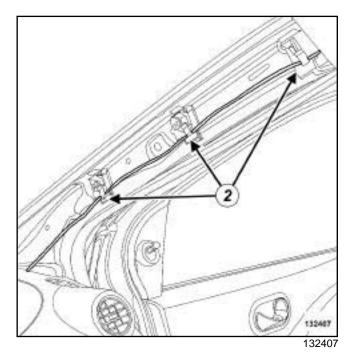
- □ Disconnect the battery (see 80A, Battery, Battery: Removal Refitting, page 80A-2).
- □ Remove the computer (see 86B, Car phone, Computer: Removal Refitting, page 86B-4).



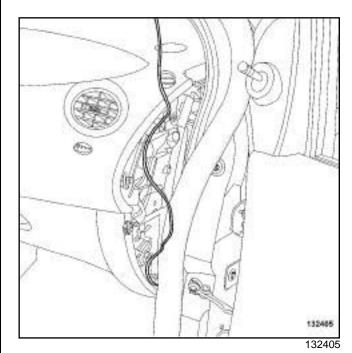
121136

- □ Unclip the dashboard side panel (1) on the passenger side.
- Remove the A-pillar trim on the passenger side (see Windscreen pillar trim: Removal - Refitting) (71A, Body internal trim).

II - OPERATION FOR REMOVAL OF PART CONCERNED



□ Remove the "hands-free" microphone wire from the A-pillar clips (2).

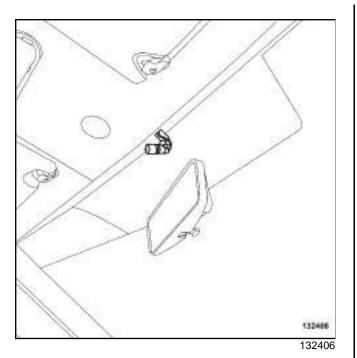


Remove the "hands-free" microphone wire from the dashboard side panel.

CAR PHONE "Hands-free" microphone: Removal - Refitting



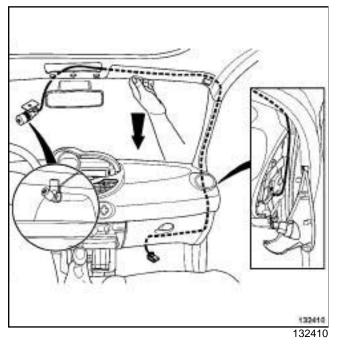
HANDS-FREE TELEPHONE KIT



□ Remove the "hands-free" microphone from the headlining.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED



- □ Refit the "hands-free" microphone with its wire as shown in the diagram above.
- □ Connect the "hands-free" microphone connector to the computer.

II - FINAL OPERATION.

Refit:

- the windscreen pillar trim (see **Windscreen pillar trim: Removal Refitting**) (71A, Body internal trim),
- the dashboard side panel,
- the computer (see 86B, Car phone, Computer: Removal Refitting, page 86B-4).
- □ Connect the battery (see 80A, Battery, Battery: Removal - Refitting, page 80A-2).

Computer: Removal - Refitting



HANDS-FREE TELEPHONE KIT

Equipment required

Diagnostic tool

Note:

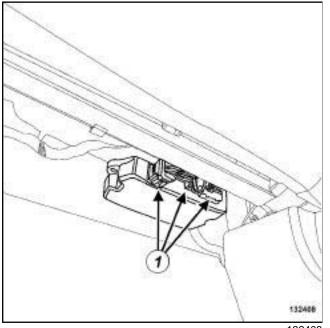
The computer is secured under the glovebox by a self-fastening strip.

REMOVAL

I - REMOVAL PREPARATION OPERATION

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

II - OPERATION FOR REMOVAL OF PART CONCERNED



132408

- **Remove the computer.**
- $\hfill\square$ Disconnect the computer connectors (1) .

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- Connect the computer connectors.
- □ Refit the computer in its original position.

- **II FINAL OPERATION.**
- □ Connect the battery (see 80A, Battery, Battery: Removal - Refitting, page 80A-2).
- If replacing the computer, carry out the necessary operations using the Diagnostic tool (see Fault finding - Replacement of components) (86B, Car phone).

PASSENGER COMPARTMENT CONNECTION UNIT UCH: Removal - Refitting



Equipment required

Diagnostic tool

REMOVAL

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

U When replacing, carry out the necessary operations using the Diagnostic tool (see Fault finding - Replacement of components) (MR 413, 87B, Passenger compartment connection unit).

RIGHT-HAND DRIVE

IMPORTANT

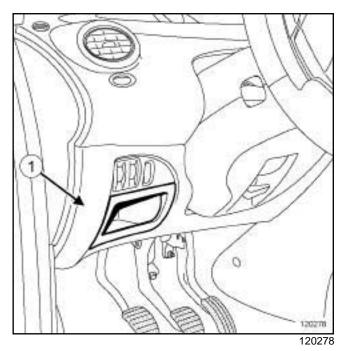
To avoid any risk of triggering when working on or near a pyrotechnic component (airbags or pretensioners), lock the airbag computer using the diagnostic tool.

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

IMPORTANT

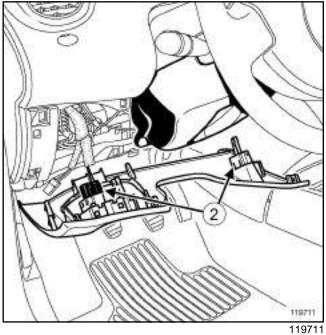
Never handle the pyrotechnic systems (pretensioners or airbags) near to a source of heat or naked flame - they may be triggered.

- Lock the airbag computer using the **Diagnostic tool** (see Fault finding - Replacement of components)(MR 413, 88C, Airbags and seat belt pretensioners).
- □ Switch off the ignition.
- Disconnect the battery (see 80A, Battery, Battery: Removal - Refitting, page 80A-2) .



□ Unclip the dashboard lower trim (1)

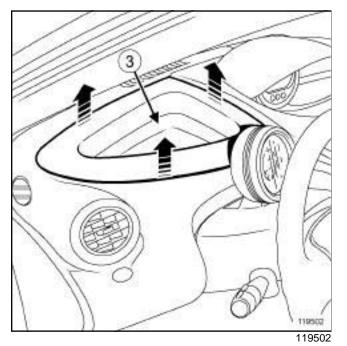
LEFT-HAND DRIVE



Disconnect the different connectors (2) from the dashboard lower trim.

PASSENGER COMPARTMENT CONNECTION UNIT UCH: Removal - Refitting

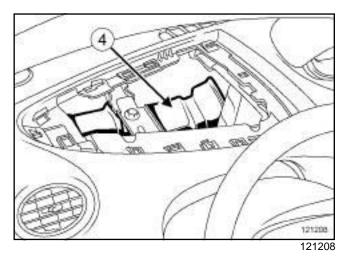




Unclip the upper dashboard storage compartment
 (3).

RIGHT-HAND DRIVE

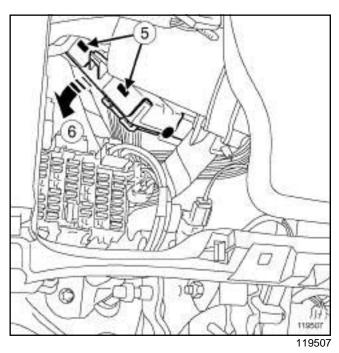
- Remove:
 - the glovebox (see **Glovebox: Removal Refitting**) (MR 412, 57A, Interior equipment),
 - the passenger front airbag (see 88C, Air bag and Pretensioners, Passenger's frontal airbag: Removal - Refitting, page 88C-8).



Remove the front left-hand side air distribution duct (see Front side air distribution duct: Removal -Refitting) (61A, Heating system).

II - OPERATION FOR REMOVAL OF PART CONCERNED

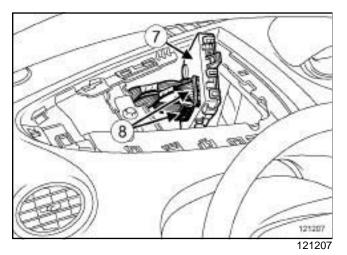
LEFT-HAND DRIVE



Unclip the UCH from its mounting at (5).
Tilt the UCH at (6).

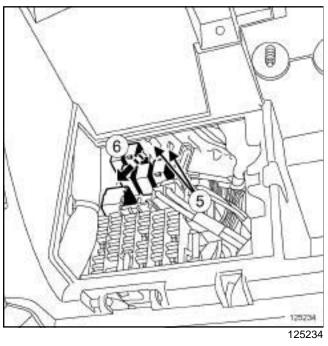
PASSENGER COMPARTMENT CONNECTION UNIT UCH: Removal - Refitting



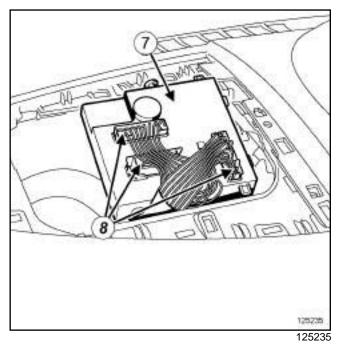


- Extract the UCH (7) by the location of the upper dashboard storage compartment.
- Disconnect the connectors (8) from the UCH.

RIGHT-HAND DRIVE



- $\hfill\square$ Unclip the UCH from its mounting at (5) .
- □ Tilt the UCH at (6).



- Extract the UCH (7) by the location of the front passenger's airbag.
- Disconnect the connectors (8) from the UCH.
- □ Remove the UCH.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- □ Connect the UCH connectors.
- □ Refit the UCH on its mounting.
- □ Clip the UCH onto its mounting.

II - FINAL OPERATION.

Refit the front left-hand side air distribution duct (see Front side air distribution duct: Removal - Refitting) (61A, Heating system).

LEFT-HAND DRIVE

- Clip the upper dashboard storage compartment into place.
- Connect the various connectors of the dashboard lower trim.
- □ Clip on the dashboard lower trim.



RIGHT-HAND DRIVE

Refit:

- the passenger front airbag (see 88C, Air bag and Pretensioners, Passenger's frontal airbag: Removal - Refitting, page 88C-8),
- the glovebox (see **Glovebox: Removal Refit-ting**) (MR 412, 57A, Interior equipment).
- Connect the battery (see 80A, Battery, Battery: Removal Refitting, page 80A-2).

RIGHT-HAND DRIVE

- Unlock the airbag computer using the Diagnostic tool (see Fault finding - Replacement of components)(MR 413, 88C, Airbags and seat belt pretensioners).
- □ When replacing, carry out the necessary operations using the **Diagnostic tool** (see **Fault finding Replacement of components**) (MR 413, 87B, Passenger compartment connection unit).

Opening elements management: List and location of components

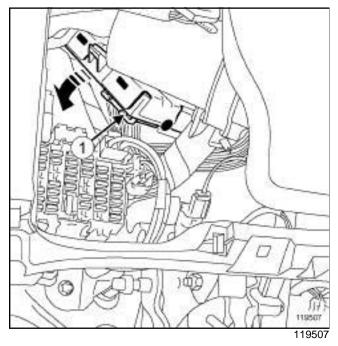


I - LIST OF COMPONENTS

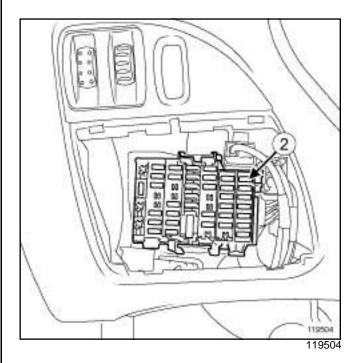
No.	Description
(1)	UCH
(2)	Passenger compartment fuse and relay box
(3)	Remote door locking control
(4)	Central door locking switch
(5)	Tailgate opening switch

II - LOCATION OF COMPONENTS

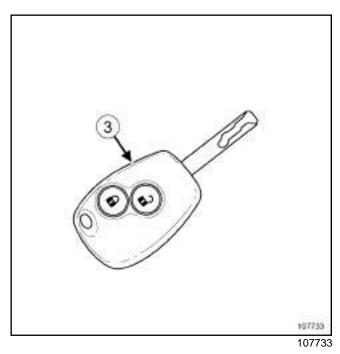
1 - UCH



The UCH is located in the dashboard, above the passenger compartment relay/fuse box; to remove it (see 87B, Passenger compartment connection unit, UCH: Removal - Refitting, page 87B-1). 2 - Passenger compartment fuse and relay box



3 - Remote door locking control



To replace the battery (see 82A, Engine immobiliser, Battery for remote door locking control: Removal -Refitting, page 82A-8).

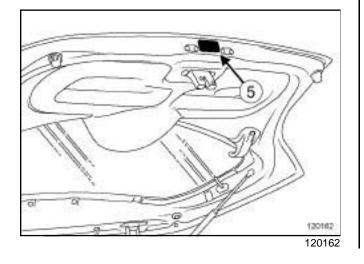


4 - Central door locking switch



To remove it (see 84A, Control - Signals, Hazard warning lights and central door control: Removal - Refitting, page 84A-10).

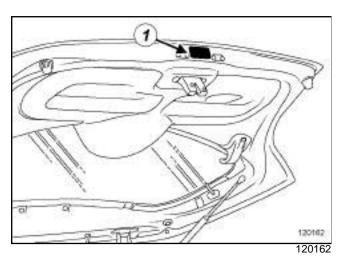
5 - Tailgate opening switch

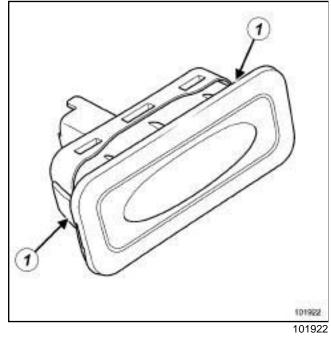




REMOVAL

OPERATION FOR REMOVAL OF PART CONCERNED





- Unclip the tailgate opening switch at (1) using a small flat-blade screwdriver, protecting the tailgate with masking tape.
- □ Extract the tailgate opening switch.
- Disconnect the tailgate opening switch connector.
- □ Remove the tailgate opening switch.

REFITTING

REFITTING OPERATION FOR PART CONCERNED

- □ Connect the tailgate opening switch connector.
- □ Refit the tailgate opening switch.

ELECTRIC WINDOWS - SUNROOF Electric window: List and location of components



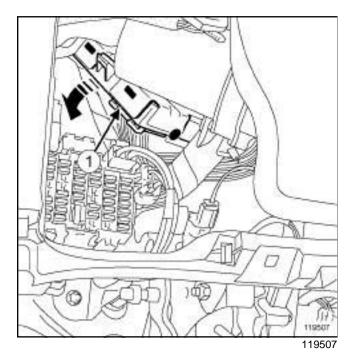
ELECTRIC FRONT WINDOW or ONE-TOUCH ELECTRIC PASSENGER WINDOW CONTROL

I - LIST OF COMPONENTS

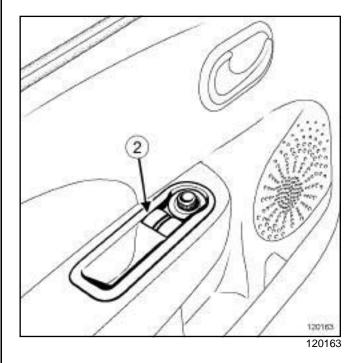
No.	Description
(1)	UCH
(2)	Driver's window lift switch board
(3)	Passenger window lift switch board

II - POSITION OF THE COMPONENTS

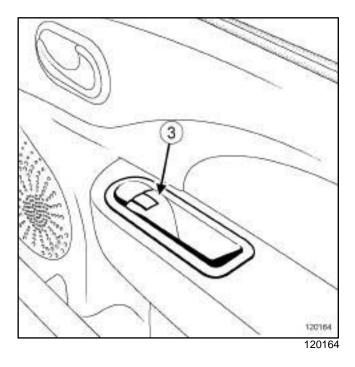
1 - UCH



2 - Driver's window lift switch board



3 - Passenger window lift switch board



ELECTRIC WINDOWS - SUNROOF Electric sunroof: List and location of components



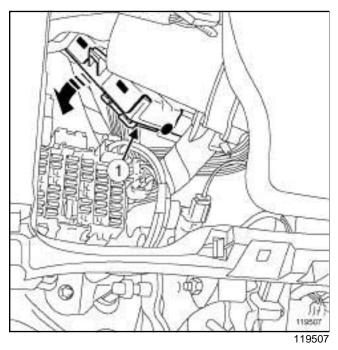
OPENING ROOF

I - LIST OF COMPONENTS

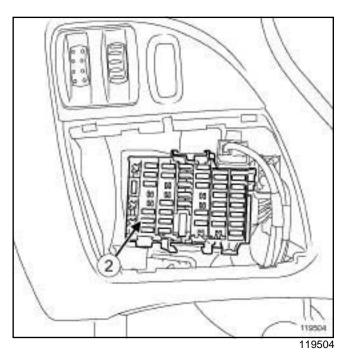
No.	Description
(1)	UCH
(2)	Passenger compartment fuse and relay box
(3)	Sunroof switch
(4)	Sunroof moving panel
(5)	Sunroof motor - computer

II - LOCATION OF COMPONENTS

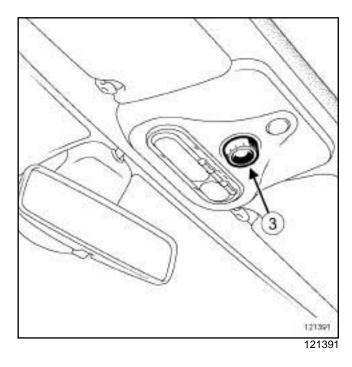
1 - UCH



The UCH is located in the dashboard, above the passenger compartment relay unit; to remove it (see 87B, Passenger compartment connection unit, UCH: Removal - Refitting, page 87B-1). 2 - Passenger compartment relay unit



3 - Sunroof switch

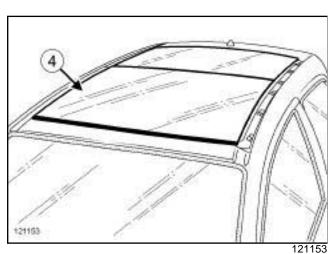


ELECTRIC WINDOWS - SUNROOF Electric sunroof: List and location of components



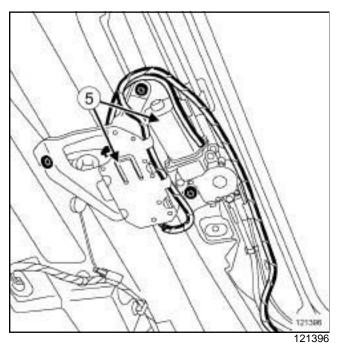
OPENING ROOF

4 - Sunroof moving panel



To remove it (see **Sunroof mobile panel: Removal -Refitting**) (MR 412, 52A, Non-side opening elements mechanism).

5 - Sunroof motor - computer



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

ELECTRIC WINDOWS - SUNROOF

Front electric window switches on driver's door: Removal - Refitting



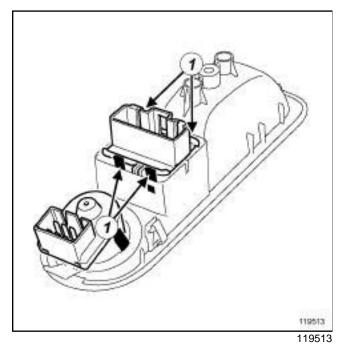
ELECTRIC FRONT WINDOW or ONE-TOUCH ELECTRIC PASSENGER WINDOW CONTROL

REMOVAL

I - REMOVAL PREPARATION OPERATION

Remove the driver's front side door trim (see Front side door trim: Removal - Refitting) (MR 412, 72A, Side opening element trim).

II - OPERATION FOR REMOVAL OF PART CONCERNED



Remove the electric window switches by pressing on the clips (1).

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

□ Refit the electric window switches on the driver's electric window plate.

II - FINAL OPERATION.

Refit the driver's front side door trim (see Front side door trim: Removal - Refitting) (MR 412, 72A, Side opening element trim).

ELECTRIC WINDOWS - SUNROOF

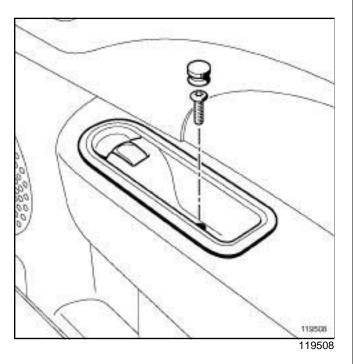
Front electric window switch on passenger door: Removal - Refitting



ELECTRIC FRONT WINDOW or ONE-TOUCH ELECTRIC PASSENGER WINDOW CONTROL

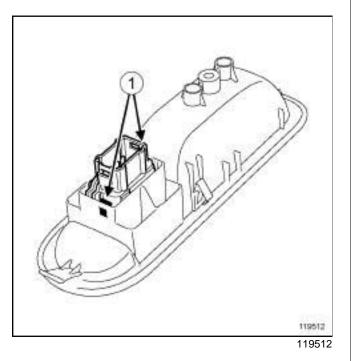
REMOVAL

I - REMOVAL PREPARATION OPERATION



Remove the passenger's front side door trim ((see Front side door trim: Removal - Refitting)).

II - OPERATION FOR REMOVAL OF PART CONCERNED



Remove the electric window switch by pressing the clips (1).

REMOVAL

I - REFITTING OPERATION FOR PART CONCERNED

Refit the electric window switch on the driver's electric window plate.

II - FINAL OPERATION.

□ Refit the passenger's front side door trim ((see **Front side door trim: Removal - Refitting**)).



OPENING ROOF

Special tooling required

Car. 1363

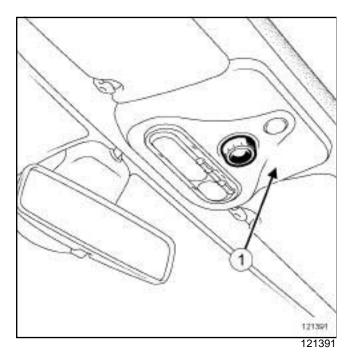
53 Set of trim removal levers.

REMOVAL

I - REMOVAL PREPARATION OPERATION

Remove the interior light (see 81B, Interior lighting, Interior light: Removal - Refitting, page 81B-2).

II - OPERATION FOR REMOVAL OF PART CONCERNED



- □ Unclip the sunroof switch (1) using the (Car. 1363).
- Disconnect the sunroof switch connector.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- □ Connect the sunroof switch connector.
- □ Clip on the sunroof switch.

II - FINAL OPERATION.

□ Refit the interior light (see 81B, Interior lighting, Interior light: Removal - Refitting, page 81B-2).



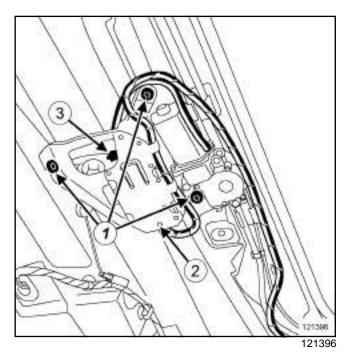
OPENING ROOF

REMOVAL

I - REMOVAL PREPARATION OPERATION

- □ Disconnect the battery (see 80A, Battery, Battery: Removal Refitting, page 80A-2).
- Remove:
 - the upper bolt from the front seat belts (see **Front seat belt: Removal Refitting**) (MR 412, 59A, Safety equipment),
 - the upper bolt from the rear seat belts (see **Rear** seat belt: Removal Refitting) (MR 412, 59A, Safety equipment),
 - the sun visors (see **Sun visor: Removal Refit-ting**) (MR 412, 57A, Interior equipment),
 - the interior rear-view mirror covers (see **Interior rear-view mirror: Removal Refitting**) (MR 412, 57A, Interior equipment),
 - the A-pillar trims (see **Windscreen pillar trim: Removal - Refitting**) (MR 412, 71A, Body internal trim),
 - the rear parcel shelf side trim panels (see **Rear parcel shelf side trim: Removal Refitting**) (MR 412, 71A, Body internal trim),
 - the rear panel trims (see **Rear panel lining: Removal - Refitting**) (MR 412, 71A, Body internal trim),
 - the rear quarter panel trims (see **Quarter panel trim: Removal Refitting**) (MR 412, 71A, Body internal trim),
 - the B-pillar upper trims (see **B-pillar upper trim: Removal Refitting**) (MR 412, 71A, Body internal trim).
 - the headlining (see **Headlining: Removal Refitting**) (MR 412, 71A, Body internal trim).

II - OPERATION FOR REMOVAL OF PART CONCERNED



Remove:

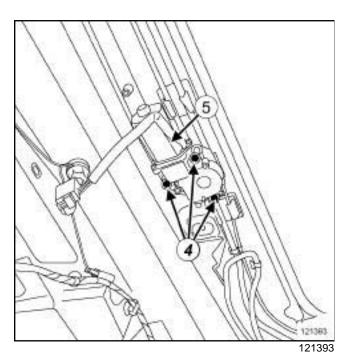
- the sunroof computer mounting bolts (1) ,
- the "sunroof computer computer mounting" assembly $({\bf 2})$.
- Disconnect the supply connector (3) from the sunroof motor.

ELECTRIC WINDOWS - SUNROOF Sunroof opening motor: Removal - Refitting



OPENING ROOF

1 - Sunroof motor

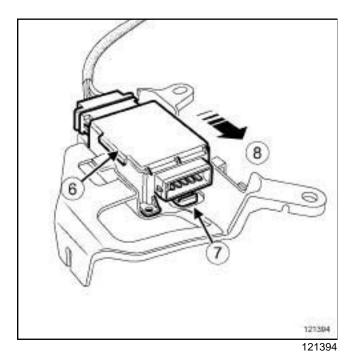


Remove:

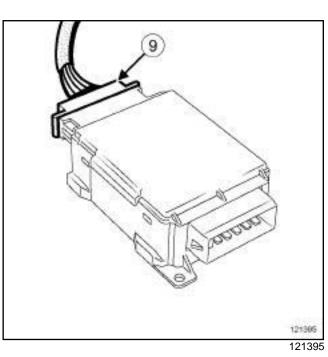
- the bolts (4) from the sunroof motor,

- the sunroof motor (5) .

2 - Sunroof computer



- Unclip the sunroof computer (6) by pressing the clip (7)
- □ Extract the sunroof computer (8).



□ Disconnect the sunroof computer supply connector (9).

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

1 - Sunroof computer

- □ Connect the sunroof computer supply connector.
- □ Clip the sunroof computer onto its mounting.

2 - Sunroof motor

- Refit:
 - the sunroof motor,
 - the sunroof motor bolts.
- Connect the sunroof motor supply connector to the sunroof computer.
- Refit:
 - the "sunroof computer computer mounting" assembly,
 - the sunroof mounting bolts.

II - FINAL OPERATION.

- Refit:
 - the headlining (see **Headlining: Removal Refitting**) (MR 412, 71A, Body internal trim),



OPENING ROOF

- the B-pillar upper trims (see **B-pillar upper trim: Removal Refitting**) (MR 412, 71A, Body internal trim).
- the rear quarter panel trims (see **Quarter panel trim: Removal Refitting**) (MR 412, 71A, Body internal trim),
- the rear panel trims (see **Rear panel lining: Removal - Refitting**) (MR 412, 71A, Body internal trim),
- the rear parcel shelf side trim panels (see **Rear parcel shelf side trim: Removal Refitting**) (MR 412, 71A, Body internal trim),
- the A-pillar trims (see **Windscreen pillar trim: Removal - Refitting**) (MR 412, 71A, Body internal trim),
- the interior rear-view mirror covers (see **Interior rear-view mirror: Removal Refitting**) (MR 412, 57A, Interior equipment),
- the sun visors (see **Sun visor: Removal Refit-ting**) (MR 412, 57A, Interior equipment),
- the upper bolt from the rear seat belts (see **Rear** seat belt: Removal Refitting) (MR 412, 59A, Safety equipment),
- the upper bolt from the front seat belts (see **Front** seat belt: Removal Refitting) (MR 412, 59A, Safety equipment).
- □ Connect the battery (see 80A, Battery, Battery: Removal - Refitting, page 80A-2).
- Carry out the necessary operations (see Electric sunroof: Initialisation) (MR 413, 87D, Electric windows - Sunroof).

PARKING DISTANCE CONTROL

Parking distance control: List and location of components

REAR PROXIMITY RADAR

I - LIST OF COMPONENTS

No.	Description
(1)	Parking distance control switch
(2)	Parking distance control buzzer
(3)	Distance control radar
(4)	Parking distance control computer

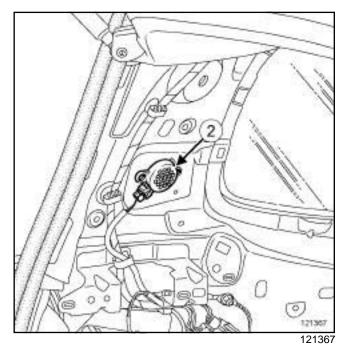
II - LOCATION OF COMPONENTS

1 - Parking distance control switch



The parking distance control switch (1) is located on the dashboard lower trim under the steering wheel.

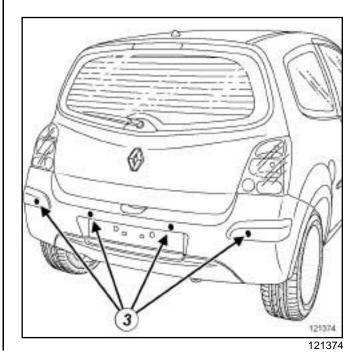
2 - Parking distance control buzzer



87

The parking distance control buzzer (2) is located under the left-hand rear quarter panel trim (see **Quarter panel trim: Removal - Refitting**) (MR 412, 71A, Body internal trim).

3 - Distance control radar



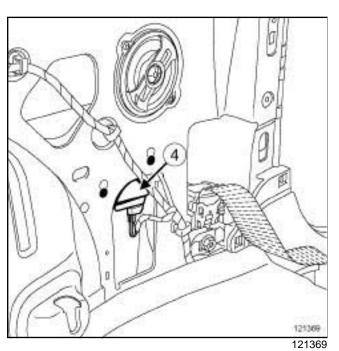
PARKING DISTANCE CONTROL

Parking distance control: List and location of components



REAR PROXIMITY RADAR

4 - Parking distance control computer



The parking distance control computer (4) is located under the left-hand rear panel (see **Rear panel lining: Removal - Refitting**) (MR 412, 71A, Body internal trim).



REAR PROXIMITY RADAR

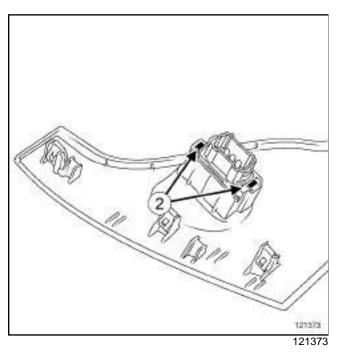
REMOVAL

I - REMOVAL PREPARATION OPERATION



- □ Unclip the dashboard lower trim (1)
- Disconnect the connectors.

II - OPERATION FOR REMOVAL OF PART CONCERNED



□ Unclip the parking distance control switch from the dashboard lower trim by pressing the clips (2).

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

Clip the parking distance control switch on the dashboard lower trim.

II - FINAL OPERATION.

- □ Connect the connectors.
- □ Clip on the dashboard lower trim.

Parking distance control buzzer: Removal - Refitting



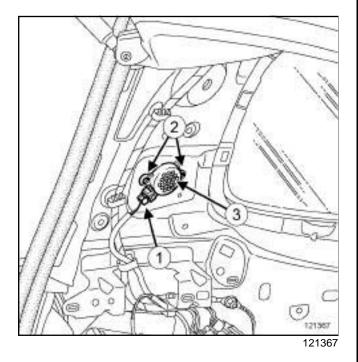
REAR PROXIMITY RADAR

REMOVAL

I - REMOVAL PREPARATION OPERATION

- □ Remove:
 - the upper bolt from the rear left-hand seat belt (see **Rear seat belt: Removal Refitting**) (MR 412, 59A, Safety equipment),
 - the left-hand rear parcel shelf trim (see **Rear parcel shelf side trim: Removal - Refitting**) (MR 412, 71A, Body internal trim),
 - the left-hand rear panel (see **Rear panel lining: Removal Refitting**) (MR 412, 71A, Body internal trim),
 - the rear left-hand quarter panel trim (see **Quarter panel trim: Removal Refitting**) (MR 412, 71A, Body internal trim).

II - OPERATION FOR REMOVAL OF PART CONCERNED



- Disconnect the connector (1) from the parking distance control buzzer.
- Remove:
 - the plastic rivets (2) from the parking distance control buzzer,
 - the parking distance control buzzer (3).

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

Refit:

- the parking distance control buzzer,
- the parking distance control buzzer plastic rivets.
- Connect the parking distance control buzzer connector.

II - FINAL OPERATION.

Refit:

- the rear left-hand quarter panel trim (see **Quarter panel trim: Removal Refitting**) (MR 412, 71A, Body internal trim),
- the left-hand rear panel (see **Rear panel lining: Removal Refitting**) (MR 412, 71A, Body internal trim),
- the left-hand rear parcel shelf trim (see **Rear parcel shelf side trim: Removal - Refitting**) (MR 412, 71A, Body internal trim),
- the upper bolt from the rear left-hand seat belt (see **Rear seat belt: Removal Refitting**) (MR 412, 59A, Safety equipment).

PARKING DISTANCE CONTROL Proximity radar: Removal - Refitting

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REAR PROXIMITY RADAR

WARNING

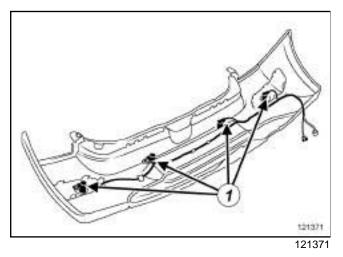
The distance control radars are fragile. Handle with care as the external part cannot withstand impacts.

REMOVAL

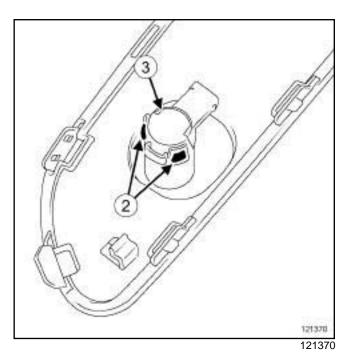
I - REMOVAL PREPARATION OPERATION

- Position the vehicle on a two-post lift (see Vehicle: Towing and lifting) (MR 411, 02A, Lifting equipment).
- Remove:
 - the rear lights on the wing (see 81A, Rear lighting, Rear wing light: Removal - Refitting, page 81A-3),
 - the rear bumper (see **Rear bumper: Removal - Refitting**) (MR 412, 55A, Exterior protection).

II - OPERATION FOR REMOVAL OF PART CONCERNED



Disconnect the connectors (1) from the proximity radar.



- Unclip the proximity radars at (2).
- \Box Remove the proximity radars (3).

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- □ Clip the proximity radars onto the rear bumper.
- Connect the proximity radar connectors.

II - FINAL OPERATION.

Refit:

- the rear bumper (see **Rear bumper: Removal - Refitting**) (MR 412, 55A, Exterior protection),
- the rear lights on the wing (see 81A, Rear lighting, Rear wing light: Removal - Refitting, page 81A-3).

PARKING DISTANCE CONTROL

Parking distance control computer: Removal - Refitting



REAR PROXIMITY RADAR

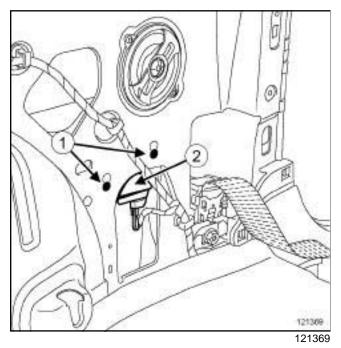
Equipment required

Diagnostic tool

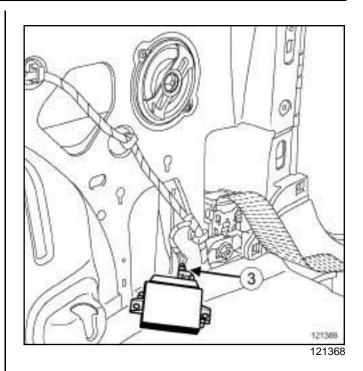
REMOVAL

- I REMOVAL PREPARATION OPERATION
- □ Disconnect the battery (see 80A, Battery, Battery: Removal Refitting, page 80A-2).
- Remove:
 - the left-hand rear parcel shelf trim (see **Rear parcel shelf side trim: Removal - Refitting**) (MR 412, 71A, Body internal trim),
 - the left-hand rear panel (see **Rear panel lining: Removal Refitting**) (MR 412, 71A, Body internal trim).

II - OPERATION FOR REMOVAL OF PART CONCERNED



- Undo the parking distance control computer bolts (1) slightly.
- Remove the parking distance control computer (2) upwards.



Disconnect the connector (3) from the parking distance control computer.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- Connect the parking distance control computer connector.
- □ Refit the parking distance control computer.

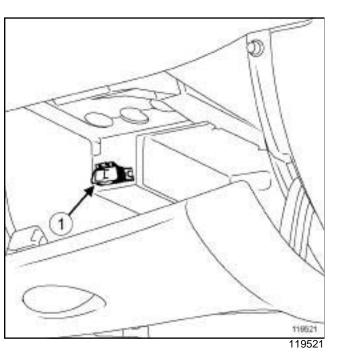
II - FINAL OPERATION.

- Refit:
 - the left-hand rear panel (see **Rear panel lining: Removal Refitting**) (MR 412, 71A, Body internal trim),
 - the left-hand rear parcel shelf trim (see Rear parcel shelf side trim: Removal Refitting) (MR 412, 71A, Body internal trim).
- □ Connect the battery (see 80A, Battery, Battery: Removal - Refitting, page 80A-2).
- In the event of a replacement operation, carry out the necessary operations using the Diagnostic tool (see Fault finding - Replacement of components) (MR 413, 87F, Parking distance control).

WIRING HARNESS Diagnostic socket: List and location of components



LOCATION



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



I - SAFETY

1 - Potentially dangerous components

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

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

Avoid mounting the wiring in areas with a temperature above $100^{\circ}C$.

2 - Advice to be followed before any operation

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

WARNING

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

WARNING

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

3 - Instructions to be followed during the operation

WARNING

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

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

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

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

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

II - GENERAL RECOMMENDATIONS

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

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

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

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

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

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

Wiring mountings:

- use plastic clips, ensuring that the colour coding is respected,

-do not use steel clips that are not protected with rubber,

- keep the clips integrated into the wiring during a replacement operation,

- do not leave steering wheel wires without protection.

Check that:

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

Wiring routing:

- when it is visible it must be aesthetically pleasing, and resemble the routing marked during removal,

- prohibit wiring routing in grooves and overlaps (risk of wear through friction),

- prohibit mounting several wires on the same clip,

- do not lock the connectors or wiring in areas that are sensitive to drilling (number plate etc.).

LEFT-HAND DRIVE

IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see 88A, Wiring harness, Wiring: Precautions for the repair, page 88A-2).

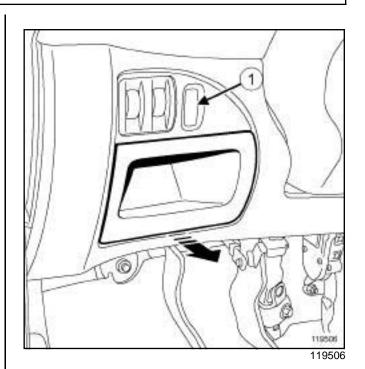
REMOVAL

I - REMOVAL PREPARATION OPERATION

Note:

The dashboard does not need to be removed in order to access the pedal wiring.

- Position the vehicle on a two-post lift (see Vehicle: Towing and lifting) (MR 411, 02A, Lifting equipment).
- □ Switch off the ignition.
- Remove:
 - the battery (see **80A**, **Battery**, **Battery**: **Removal Refitting**, page **80A-2**),
 - the battery tray (see 80A, Battery, Battery tray: Removal - Refitting, page 80A-6),
 - the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (MR 412, 55A, Exterior protection),
 - the front bumper (see **Front bumper: Removal - Refitting**) (MR 412, 55A, Exterior protection),
 - the side indicators (see 80B, Headlights, Side indicator: Removal - Refitting, page 80B-13) ,
 - the master cylinder (see **Master cylinder: Removal - Refitting**) (MR 411, 37A, Mechanical component controls),
 - the brake servo (see **Brake servo: Removal Refitting**) (MR 411, 37A, Mechanical component controls),
 - the left-hand suspended engine mounting (see Left-hand suspended engine mounting: Removal Refitting) (MR 411, 19D, Engine mounting).

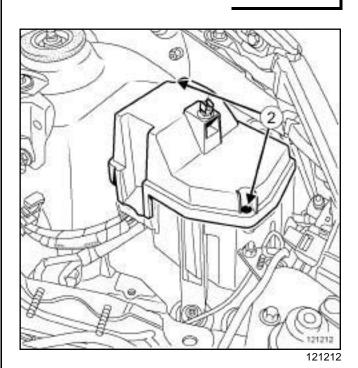


Unclip the glovebox.

□ Remove the dashboard lower trim.

CRUISE CONTROL

Disconnect the cruise control switch connector (1).



Remove:

- the bolts (2)

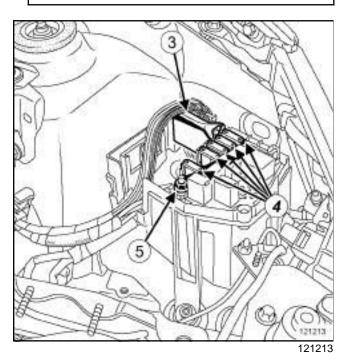
LEFT-HAND DRIVE

- the cover to the engine compartment connection unit.

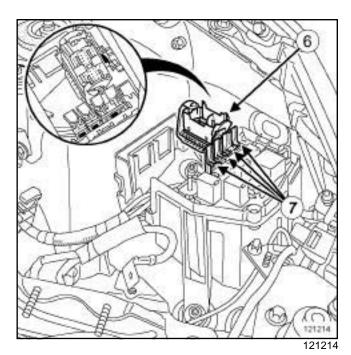
II - REMOVAL OPERATION FOR PART CONCERNED

WARNING

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

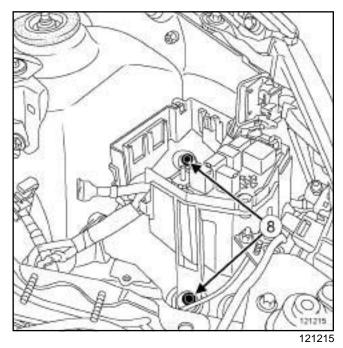


- □ Disconnect the front left-hand wiring/engine harness connector (3).
- Remove:
 - the fuses (4),
 - the engine compartment connection unit supply wiring nut $\left(5\right)$.



Unclip:

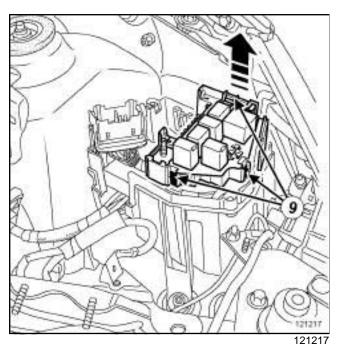
- the front left-hand wiring/engine harness connector $(\mathbf{6})$,
- the fuse holders (7) .



□ Remove the engine compartment connection unit nuts (8).



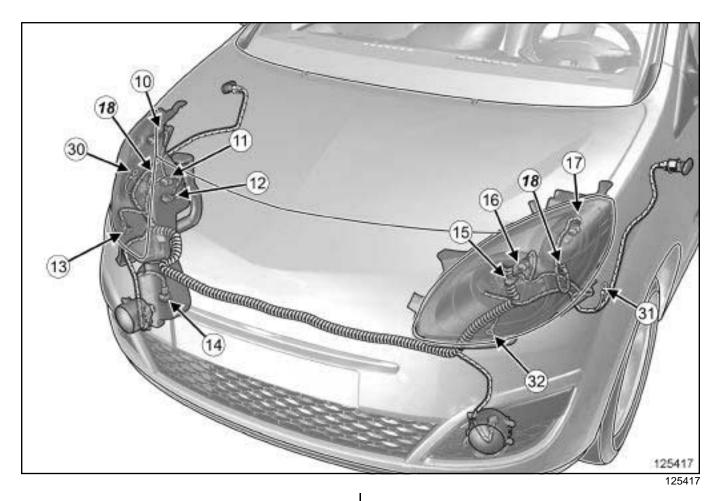
LEFT-HAND DRIVE

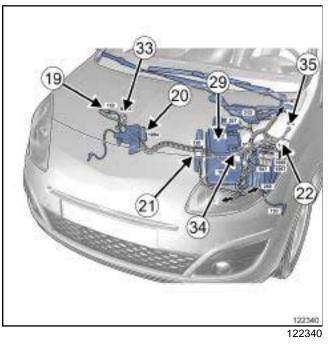


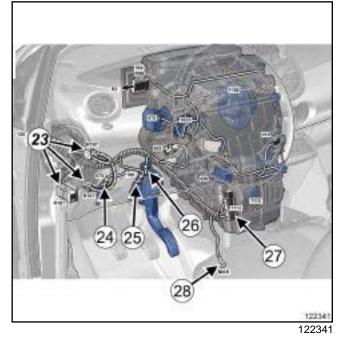
□ Unclip the engine compartment connection unit board at (9).



LEFT-HAND DRIVE







Disconnect:

- the front right-hand indicator connector $({\bf 10})$,
- the front right-hand headlight connector $({\bf 11})$,
- the front right-hand side light connector $({\bf 12})$,



LEFT-HAND DRIVE

- the horn connector (13),
- the windscreen washer pump connector (14) ,
- the front left-hand side light connector $({\bf 15})$,
- the front left-hand headlight connector $({\bf 16})$,
- the front left-hand indicator connector $\left(17\right)$,
- the headlight beam adjustment motor connectors $(\mathbf{18})$,
- the front right-hand wheel speed sensor connector $(\mathbf{19})$,
- the hydraulic brake unit connector (20) ,
- the injection computer connector $({\bf 21})$,
- the front left-hand wheel speed sensor connector $({\bf 22})\;,$
- the front left-hand wiring/passenger compartment wiring connectors (23) ,
- the clutch pedal position sensor connector (24) ,
- the STOP warning light switch connector (25) ,
- the acceleration pedal potentiometer connector $(\mathbf{26})$.

CLIMATE CONTROL

- Disconnect the regulated additional heater connector (27).
- □ Remove the additional heater earth wiring nut (28).

JH1

□ Disconnect the gearbox pump assembly relay connector (29).

□ Remove:

- the earth wiring nut on the front right-hand side member (30),
- the earth wiring nut on the front left-hand side member (31),
- the earth wiring nut on the body (32),
- the hydraulic brake unit earth wiring nut (33),
- the earth wiring nut on the negative battery terminal **(34)**,
- the earth wiring nut on the bodywork (35),

 the front windscreen wiper mechanism (see 85A, Wiping - Washing, Windscreen wiper mechanism: Removal - Refitting, page 85A-10).

Unclip:

- the section of wiring from the bulkhead,
- the section of wiring on the front bumper cross member,
- the section of wiring from the windscreen washer reservoir
- the section of wiring from the dashboard cross member.
- □ Unclip the front left-hand wiring from the bulkhead.
- Remove the front left-hand wiring through the engine compartment.

WARNING

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

REFITTING

I - REFITTING PREPARATIONS OPERATION

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

II - REFITTING OPERATION FOR PART CONCERNED

- Position the front left-hand wiring across the bulkhead.
- □ Clip the front left-hand wiring onto the bulkhead.
- Connect:
 - the acceleration pedal potentiometer connector,
 - the STOP warning light switch connector,
 - the clutch pedal position sensor connector ,
 - the front left-hand wiring/passenger compartment wiring connectors,
 - the injection computer connector,
 - the front left-hand wheel speed sensor connector,
 - the hydraulic brake unit connector,
 - the front right-hand wheel speed sensor connector,
 - the headlight beam adjustment motor connectors,

WIRING HARNESS

Front left-hand wiring: Removal - Refitting

LEFT-HAND DRIVE

- the front left-hand indicator connector,
- the front left-hand headlight connector,
- the front left-hand side light connector,
- the windscreen washer pump connector,
- the horn connector,
- the front right-hand side light connector,
- the front right-hand headlight connector,
- the front right-hand indicator connector.

CLIMATE CONTROL

- □ Connect the regulated additional heater connector.
- □ Refit the additional heater earth wiring nut.

JH1

Connect the gearbox pump assembly relay connector.

Refit:

- the windscreen wiper mechanism (see 85A, Wiping - Washing, Windscreen wiper mechanism: Removal - Refitting, page 85A-10),
- the earth wiring nut on the bodywork,
- the earth wiring nut on the negative battery terminal,
- the hydraulic brake unit earth wiring nut,
- the earth wiring nut on the body,
- the earth wiring nut on the front left-hand side member,
- the earth wiring nut on the front right-hand side member,
- □ Clip:
 - the section of wiring onto the dashboard cross member,
 - the section of wiring onto the windscreen washer reservoir
 - the section of wiring onto the front bumper cross member,
 - the section of wiring onto the bulkhead.
- □ Refit the engine compartment connection unit nuts.

- Clip on:
 - the fuse holders,
 - the front left-hand wiring/engine harness connector.
- Connect the front left-hand wiring/engine harness connector.
- Refit:
 - the engine compartment connection unit supply wiring nut,
 - the fuses.

WARNING

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

Clip on the engine compartment connection unit board.

III - FINAL OPERATION

- Refit:
 - the cover from the engine compartment connection unit,
 - the bolts.

CRUISE CONTROL

- Connect the cruise control switch connector.
- □ Refit the dashboard lower trim.
- □ Clip the glovebox in position.
- Refit:
 - the left-hand suspended engine mounting (see Left-hand suspended engine mounting: Removal - Refitting) (MR 411, 19D, Engine mounting),
 - the brake servo (see **Brake servo: Removal Refitting**) (MR 411, 37A, Mechanical component controls),
 - the master cylinder (see **Master cylinder: Removal - Refitting**) (MR 411, 37A, Mechanical component controls),
 - the side indicators (see 80B, Headlights, Side indicator: Removal - Refitting, page 80B-13),
 - the front bumper (see **Front bumper: Removal - Refitting**) (MR 412, 55A, Exterior protection),



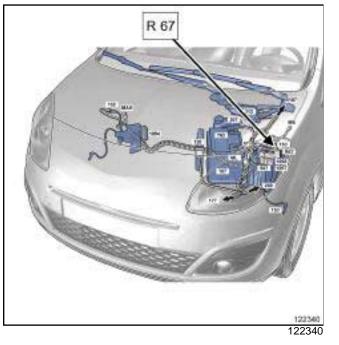
LEFT-HAND DRIVE

- the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (MR 412, 55A, Exterior protection),
- the battery tray (see **80A**, **Battery**, **Battery tray: Removal Refitting**, page **80A-6**),
- the battery (see **80A**, **Battery**, **Battery**: **Removal Refitting**, page **80A-2**).

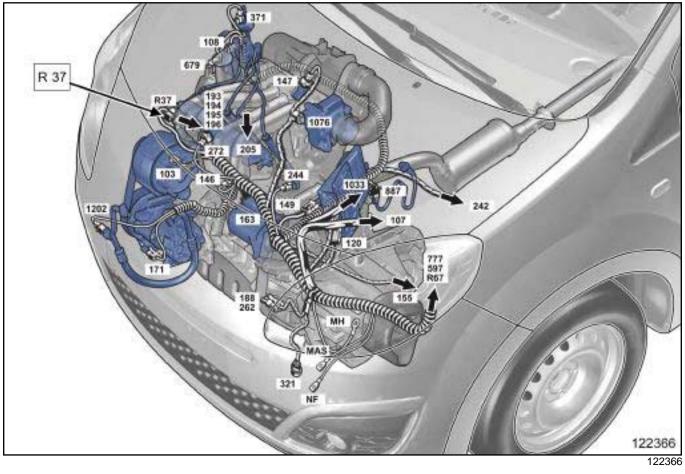
D7F



I - LOCATION OF CONNECTORS

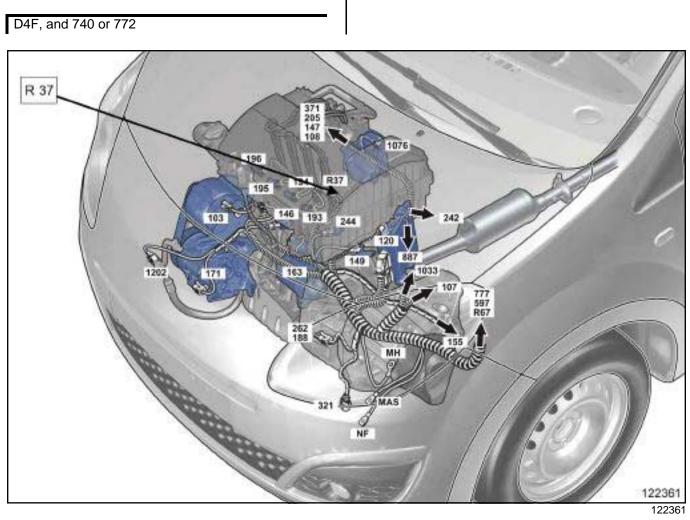


□ R 67 connector (engine/front of engine connection).



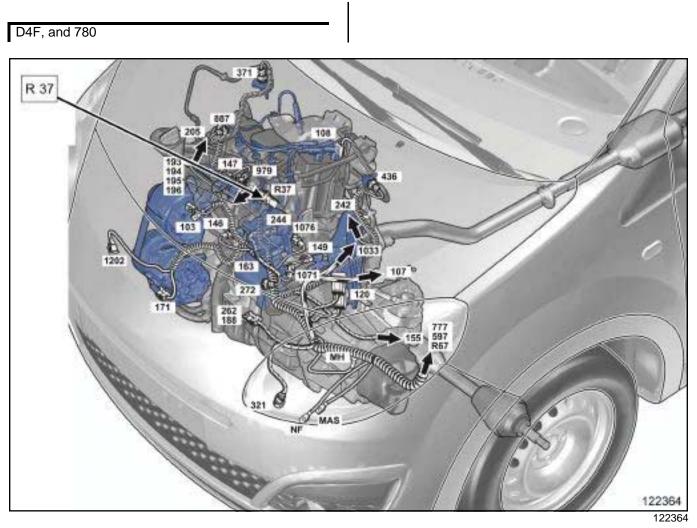
□ R 37 connector (engine/injection connection).





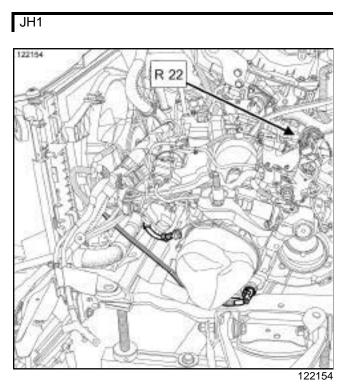
□ R 37 connector (engine/injection connection).





□ R 37 connector (engine/injection connection).





R 22 connector (engine harness/automatic transmission connection).

II - ACCESSING THE CONNECTORS

IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see 88A, Wiring harness, Wiring: Precautions for the repair, page 88A-2).

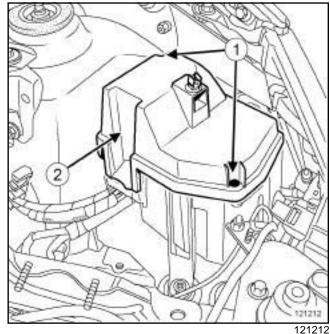
WARNING

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

□ Switch off the ignition.

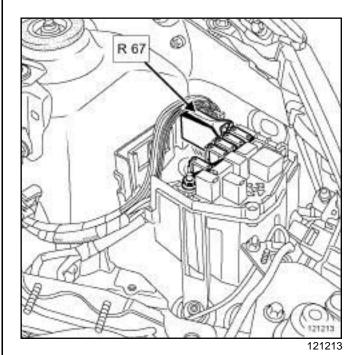
□ Disconnect the battery (see 80A, Battery, Battery: Removal - Refitting, page 80A-2)

Accessing the R 67 connector



Remove:

- the engine compartment connection unit cover bolts $\left(1\right)$,
- the engine compartment connection unit cover (2) .

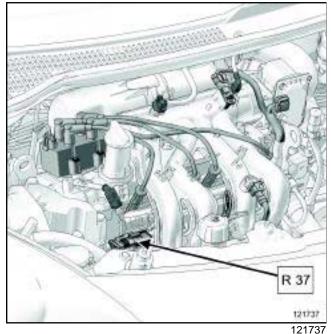


Disconnect the R 67 connector.



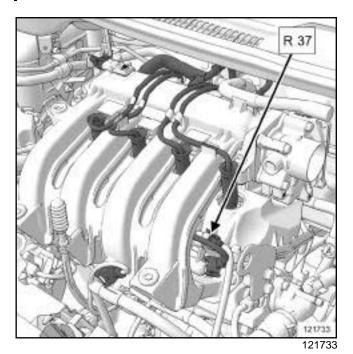
D7F

Accessing the R 37 connector



Disconnect the R 37 connector.

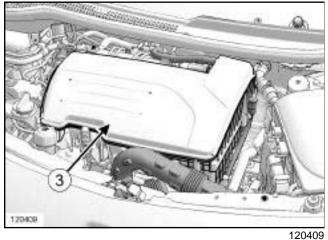
D4F, and 740 or 772



Disconnect the R 37 connector.

D4F

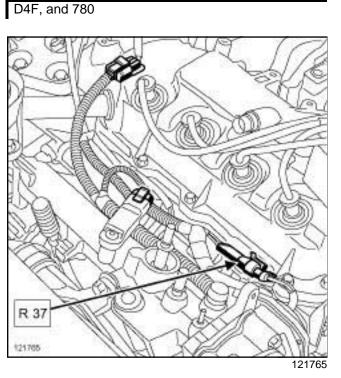
Accessing the R 37 connector



Remove the air filter unit (3) (see Air filter unit: Removal - Refitting) (MR 411, 12A, Fuel mixture).

88A-14

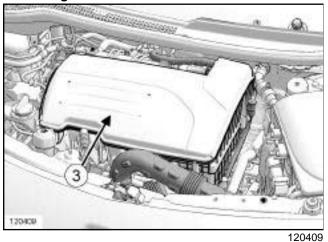




Disconnect the R 37 connector.

JH1

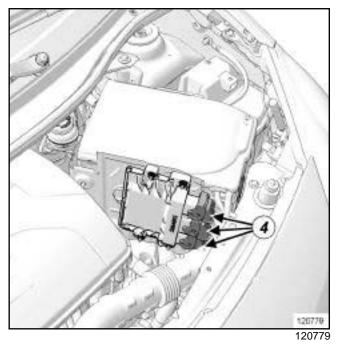
Accessing the R 22 connector



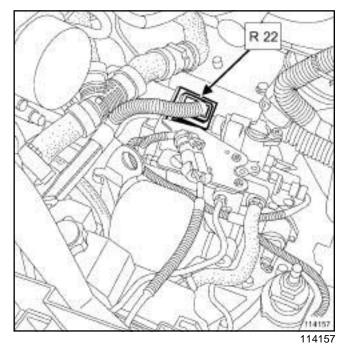
Remove:

- the air filter unit (3) (see Air filter unit: Removal Refitting) (MR 411, 12A, Fuel mixture),
- the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-2**),

- the battery tray (see 80A, Battery, Battery tray: Removal - Refitting, page 80A-6)



- Disconnect the injection computer connectors (4).
- Remove:
 - the injection computer support bolts,
 - the engine harness nut,
 - the injection computer mounting with the computer.



Disconnect the R 22 connector.



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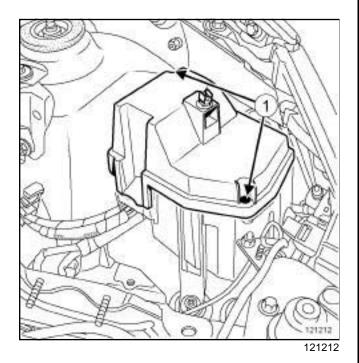
IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see 88A, Wiring harness, Wiring: Precautions for the repair, page 88A-2).

REMOVAL

I - REMOVAL PREPARATION OPERATION

- Position the vehicle on a two-post lift (see Vehicle: Towing and lifting) (MR 411, 02A, Lifting equipment).
- □ Switch off the ignition.
- □ Remove:
 - the engine cover,
 - the battery (see 80A, Battery, Battery: Removal Refitting, page 80A-2) ,
 - the air filter unit (see **Air filter unit: Removal Re-fitting**) (MR 411, 12A, Fuel mixture),
 - the battery tray (see 80A, Battery, Battery tray: Removal - Refitting, page 80A-6),



- Remove:
 - the bolts (1),
 - the cover to the engine compartment connection unit.

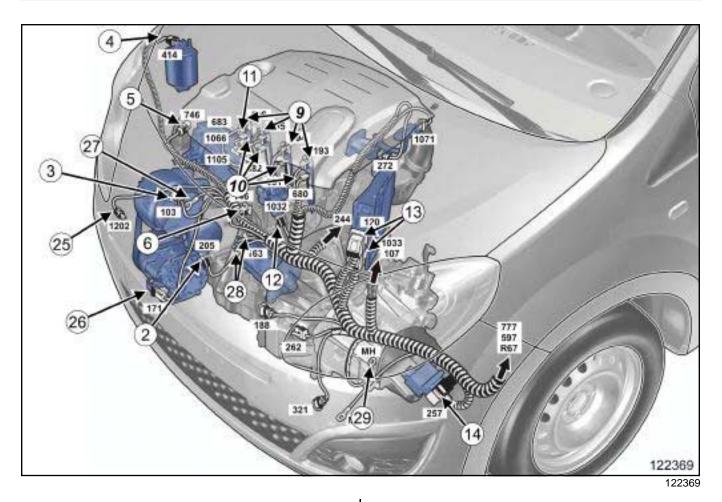
II - REMOVAL OPERATION FOR PART CONCERNED

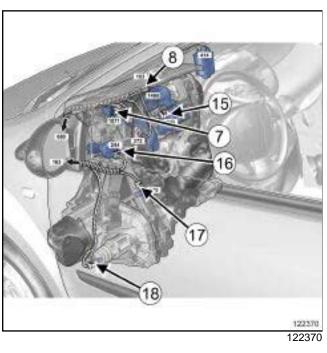
WARNING

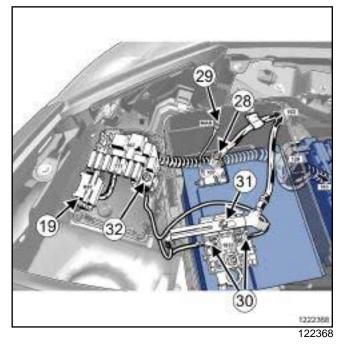
To prevent any risk of noise, premature wear, short circuits, etc. after the refitting operation, mark the wiring routing and how to connect the connectors.



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Disconnect:

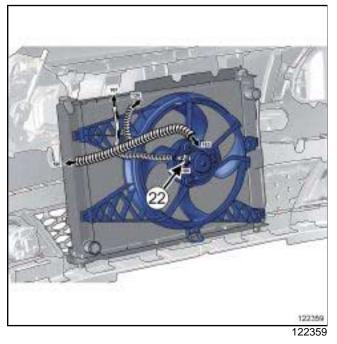
- the oil pressure sensor connector $({\bf 2})$,
- the alternator connector (3),



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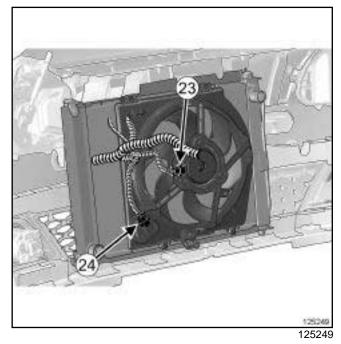
- the connector from the water detection sensor on the fuel filter $\left(4\right)$,
- the camshaft position sensor connector (5) ,
- the pinking sensor connector (6),
- the turbocharging pressure sensor connector (7),
- the air temperature sensor connector (8) ,
- the injector connector (9),
- the heater plugs connector (10),
- the fuel temperature sensor connector (11) ,
- the fuel rail pressure sensor connector $\left(12\right)$,
- the diesel injection computer connectors (13) ,
- the pre-postheating unit connector (14) ,
- the exhaust gas recirculation solenoid value connector $({\bf 15})$,
- the coolant temperature sensor connector (16),
- the crankshaft position sensor connector (17) ,
- the reversing lights switch connector (18) ,
- the front of engine wiring/engine harness connector $(\mathbf{19})$.

STANDARD HEATING



Disconnect the cooling fan assembly connector (20)

AIR CONDITIONING



- Disconnect:
 - the engine cooling fan assembly connector (21) ,
 - the engine cooling fan assembly resistor connector $({\bf 22})$,
 - the refrigerant fluid pressure sensor connector (23)
 - the air conditioning compressor connector (24) .

Remove:

- the alternator earth wiring nut (25),
- the nuts from the starter supply and earth terminals **(26)**,
- the engine earth wiring nut (27),
- the positive battery terminal wiring nut (28),
- the earth wiring nut on the front left-hand side member (29),
- the battery protection fuse wiring nuts (30),
- the wiring mounting nut on the battery protection fuse board (31),
- the engine compartment connection unit supply wiring nut (32).

Unclip:

- the section of wiring on the cylinder head,



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- the section of wiring on the cylinder block and subframe,
- the section of wiring on the engine cooling fan assembly.
- □ Remove the engine harness.

WARNING

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

REFITTING

I - REFITTING PREPARATIONS OPERATION

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

II - REFITTING OPERATION FOR PART CONCERNED

□ Refit the engine harness.

STANDARD HEATING

Connect the engine cooling fan assembly connector.

AIR CONDITIONING

Connect:

- the air conditioning compressor connector,
- the refrigerant fluid pressure sensor connector,
- the engine cooling fan assembly resistor connector,
- the engine cooling fan assembly connector.

Connect:

- the engine harness/front of engine wiring connector,
- the reversing lights switch connector,
- the crankshaft position sensor connector,
- the coolant temperature sensor connector,
- the air inlet temperature sensor connector,

- the exhaust gas recirculation solenoid valve connector,
- the connector to the pre-postheating unit,
- the diesel injection computer connectors,
- the fuel rail pressure sensor connector,
- the fuel temperature sensor connector,
- the heater plugs connector,
- the injector connectors,
- the air temperature sensor connector,
- the turbocharging pressure sensor connector,
- the pinking sensor connector,
- the camshaft position sensor connector,
- the connector from the water detection sensor on the fuel filter,
- the alternator connector,
- the oil pressure sensor connector.
- Refit:
 - the engine compartment connection unit supply wiring nut,
 - the wiring mounting nut on the battery protection fuse board,
 - the battery protection fuse wiring nuts,
 - the earth wiring nut on the front left-hand side member,
 - the positive battery terminal wiring nut,
 - the engine earth wiring nut,
 - the starter supply and earth terminal nuts,
 - the alternator earth wiring nut.
- Clip:
 - the section of wiring on the cylinder head,
 - the section of wiring on the cylinder block and subframe,
 - the section of wiring on the engine cooling fan assembly.

III - FINAL OPERATION.

- Refit:
 - the battery tray (see 80A, Battery, Battery tray: Removal - Refitting, page 80A-6),
 - the air filter unit (see **Air filter unit: Removal Re-fitting**) (MR 411, 12A, Fuel mixture),



K9K

- the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-2**),
- the engine cover,
- the cover from the engine compartment connection unit,
- the engine compartment connection unit cover bolts.



D4F, and 780

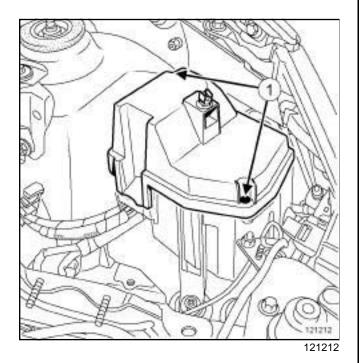
IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see 88A, Wiring harness, Wiring: Precautions for the repair, page 88A-2).

REMOVAL

I - REMOVAL PREPARATION OPERATION

- Position the vehicle on a two-post lift (see Vehicle: Towing and lifting) (MR 411, 02A, Lifting equipment).
- □ Switch off the ignition.
- □ Remove:
 - the engine cover,
 - the battery (see **80A**, **Battery**, **Battery**: **Removal Refitting**, page **80A-2**),
 - the air filter unit (see **Air filter unit: Removal Re-fitting**) (MR 411, 12A, Fuel mixture),
 - the battery tray (see 80A, Battery, Battery tray: Removal - Refitting, page 80A-6).



- Remove:
 - the bolts (1),
 - the cover to the engine compartment connection unit.

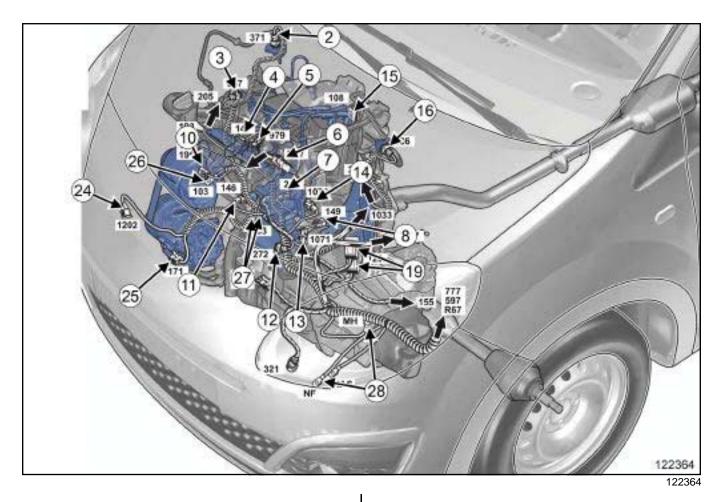
II - REMOVAL OPERATION FOR PART CONCERNED

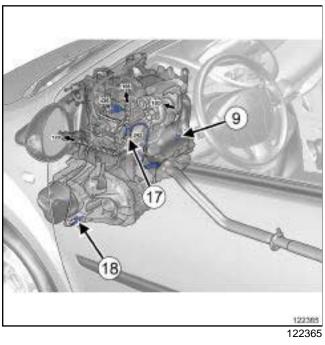
WARNING

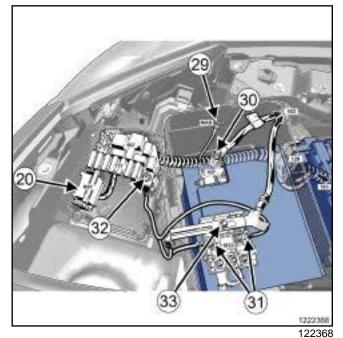
To prevent any risk of noise, premature wear, short circuits, etc. after the refitting operation, mark the wiring routing and how to connect the connectors.



D4F, and 780







Disconnect:

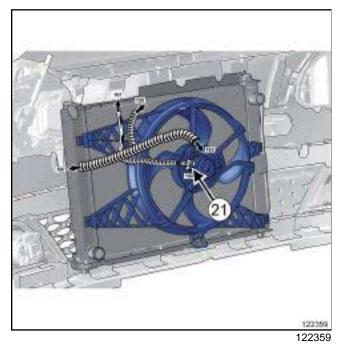
- the fuel vapour absorber connector $\left(2\right)$,
- the upstream oxygen sensor connector $({\bf 3})$,
- the air inlet pressure sensor connector $\left(4\right)$,



D4F, and 780

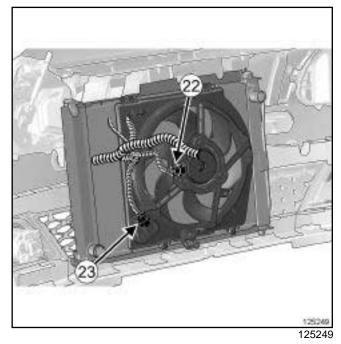
- the oil vapour recirculation hose reheater connector $({\bf 5})$,
- the engine harness/injection wiring connector (6) ,
- the coolant temperature sensor connector (7) ,
- the crankshaft position sensor connector $(\mathbf{8})$,
- the oil pressure sensor connector $(\boldsymbol{9})$,
- the alternator connector (10),
- the pinking sensor connector (11),
- the air temperature sensor connector (12) ,
- the turbocharger pressure sensor connector (13) ,
- the motorised throttle valve connector (14) ,
- the ignition coil connector (15),
- the turbocharger solenoid valve connector (16) ,
- the downstream oxygen sensor connector (17),
- the reversing lights switch connector (18),
- the petrol injection computer connectors (19),
- the engine harness/front of engine wiring connector $({\bf 20})$.

STANDARD HEATING



Disconnect the cooling fan assembly connector (21)

AIR CONDITIONING



- Disconnect:
 - the engine cooling fan assembly connector (22) ,
 - the engine cooling fan assembly resistor connector $({\bf 23})$.
 - the refrigerant fluid pressure sensor connector (24)
 - the air conditioning compressor connector (25) ,

Remove:

- the alternator earth wiring nut (26),
- the nuts from the starter supply and earth terminals $(\mathbf{27})$,
- the earth wiring nuts on the engine (28),
- the earth wiring nut on the front left-hand side member (29),
- the positive battery terminal wiring nut (30),
- the negative battery terminal wiring nuts (31),
- the wiring mounting nut on the battery protection fuse board (33),
- the engine compartment connection unit supply terminal nut (32) .

Unclip:

- the section of wiring on the cylinder head,



D4F, and 780

- the section of wiring on the cylinder block and subframe,
- the section of wiring on the engine cooling fan assembly.
- □ Remove the engine harness.

WARNING

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

REFITTING

I - REFITTING PREPARATION OPERATION

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

II - REFITTING OPERATION FOR PART CONCERNED

□ Refit the engine harness.

STANDARD HEATING

Connect the engine cooling fan assembly connector.

AIR CONDITIONING

Connect:

- the air conditioning compressor connector,
- the refrigerant fluid pressure sensor connector,
- the engine cooling fan assembly connector,
- the engine cooling fan assembly resistor connector.

Connect:

- the engine harness/front of engine wiring connector,
- the connectors to the petrol injection computer,
- the reversing lights switch connector,
- the downstream oxygen sensor connector,
- the turbocharger solenoid valve connector,

- the ignition coil connector,
- the motorised throttle valve connector,
- the turbocharger pressure sensor connector,
- the air temperature sensor connector,
- the pinking sensor connector,
- the alternator connector,
- the oil pressure sensor connector,
- the crankshaft position sensor connector,
- the coolant temperature sensor connector,
- the engine harness/injection wiring connector,
- the oil vapour recirculation hose reheater connector,
- the air inlet pressure sensor connector,
- upstream oxygen sensor connector,
- the fuel vapour absorber connector.
- Refit:
 - the engine compartment connection unit supply terminal nut,
 - the wiring mounting nut on the battery protection fuse board,
 - the negative battery terminal wiring nuts,
 - the positive battery terminal wiring nut,
 - the earth wiring nut on the front left-hand side member,
 - the earth wiring nuts on the engine,
 - the starter wiring nuts,
 - the alternator earth wiring nut.
- Clip:
 - the section of wiring on the cylinder head,
 - the section of wiring on the cylinder block and sub-frame,
 - the section of wiring on the engine cooling fan assembly.

III - FINAL OPERATION.

- Refit:
 - the battery tray (see 80A, Battery, Battery tray: Removal Refitting, page 80A-6) ,
 - the air filter unit (see **Air filter unit: Removal Re-fitting**) (MR 411, 12A, Fuel mixture),
 - the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-2**),



D4F, and 780

- the engine cover,
- the cover from the engine compartment connection unit,
- the engine compartment connection unit cover bolts.



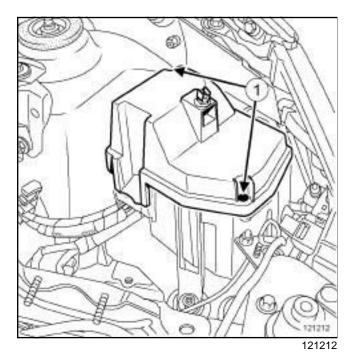
IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see 88A, Wiring harness, Wiring: Precautions for the repair, page 88A-2).

REMOVAL

I - REMOVAL PREPARATION OPERATION

- Position the vehicle on a two-post lift (see Vehicle: Towing and lifting) (MR 411, 02A, Lifting equipment).
- □ Switch off the ignition.
- Remove:
 - the engine cover,
 - the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-2**),
 - the air filter unit (see **Air filter unit: Removal Re-fitting**) (MR 411, 12A, Fuel mixture),
 - the battery tray (see 80A, Battery, Battery tray: Removal - Refitting, page 80A-6).



- Remove:
 - the bolts $(\mathbf{1})$,
 - the engine compartment connection unit cover.

II - REMOVAL OPERATION FOR PART CONCERNED

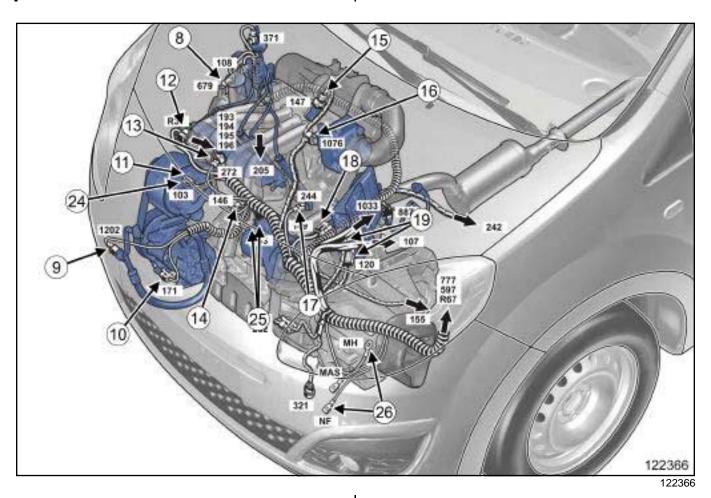
WARNING

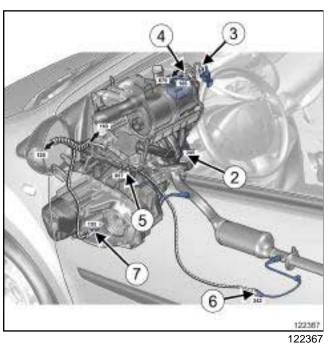
To prevent any risk of noise, premature wear, short circuits, etc. after the refitting operation, mark the wiring routing and how to connect the connectors.

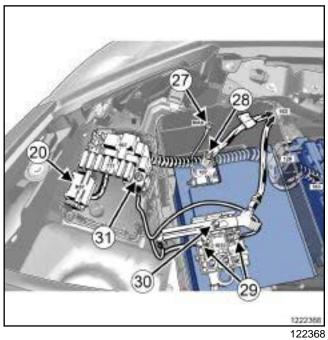


D4F or D7F

D7F







Disconnect:

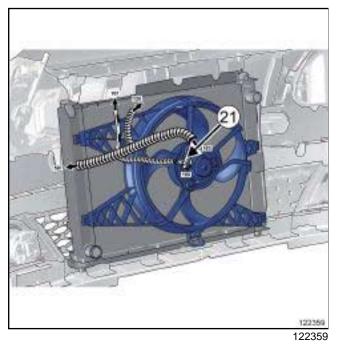
- the oil pressure sensor connector $({\bf 2})$,



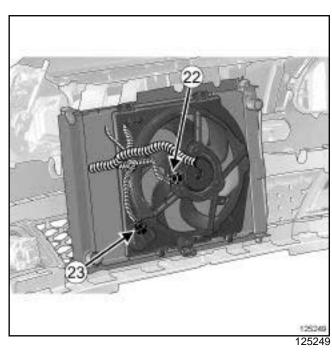
D4F or D7F

- the fuel vapour absorber connector ${\bf (3)}$,
- the ignition coil connector $\left(4\right)$,
- the upstream oxygen sensor connector (5),
- the downstream oxygen sensor connector $\left(\boldsymbol{6} \right)$,
- the reversing lights switch connector (7) ,
- the radio interference suppressor connector $({f 8})$,
- the alternator connector (11) ,
- the engine harness/injection wiring connector (12) ,
- the air inlet temperature sensor connector $({\bf 13})$,
- the pinking sensor connector (14) ,
- the air inlet pressure sensor connector (15),
- the motorised throttle valve connector (16) ,
- the coolant temperature sensor connector (17) ,
- the crankshaft position sensor connector (18)
- the petrol injection computer connectors (19),
- the engine harness/front of engine wiring connector $({\bf 20})$.

STANDARD HEATING



Disconnect the cooling fan assembly connector (21)



Disconnect:

AIR CONDITIONING

- the engine cooling fan assembly connector (22) ,
- the engine cooling fan assembly resistor connector $(\mathbf{23})$,
- the refrigerant fluid pressure sensor connector (9),
- the air conditioning compressor connector (10).

Remove:

- the alternator earth wiring nut (24),
- the nuts from the starter supply and earth terminals (25),
- the engine earth wiring nuts (26),
- the earth wiring nut on the front left-hand side member (27),
- the positive battery terminal wiring nut (28),
- the negative battery terminal wiring nuts (29),
- the wiring mounting nut on the battery protection fuse board (30),
- the engine compartment connection unit supply terminal nut (31).
- Unclip:
 - the section of wiring on the cylinder head,



- the section of wiring on the cylinder block and sub-frame,
- the section of wiring on the engine cooling fan assembly.
- □ Remove the engine harness.

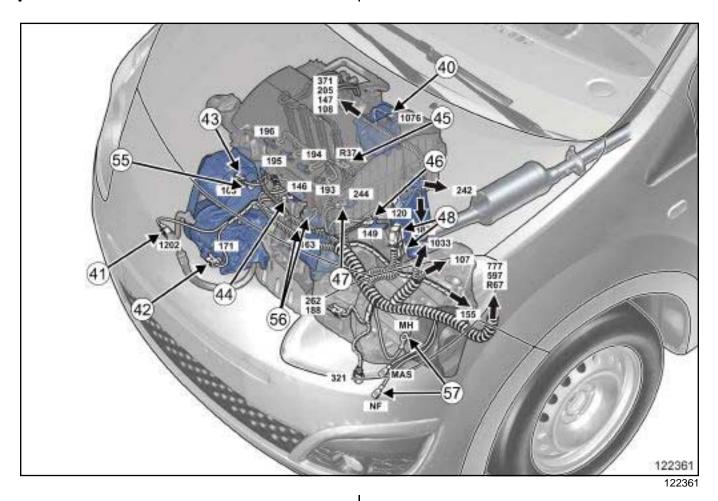
WARNING

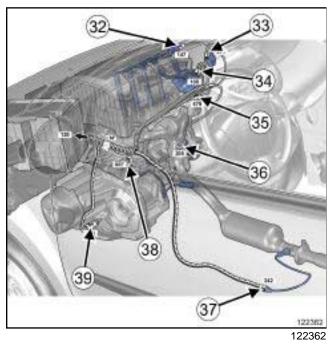
To prevent any damage during the removal operation, check that the wiring is free from its mountings (retaining clip, plastic clip, adhesive tape, connector, etc.).

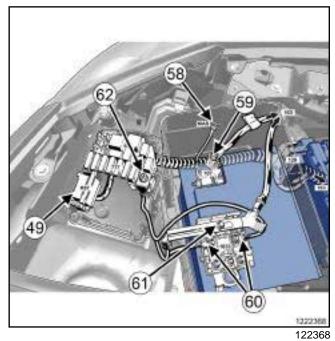


D4F or D7F

D4F







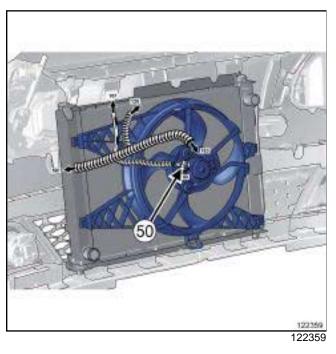
Disconnect:

- the air inlet pressure sensor connector (32),



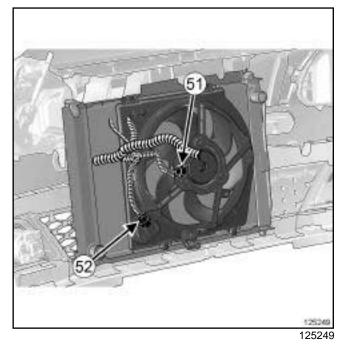
- the fuel vapour absorber connector $\left(33\right)$,
- the ignition coil connector $(\mathbf{34})$,
- the radio interference suppressor connector ${\bf (35)}$,
- the oil pressure sensor connector (36) ,
- the downstream oxygen sensor connector (37) ,
- the upstream oxygen sensor connector (38),
- the reverse gear switch connector (39),
- the motorised throttle valve connector (40) ,
- the alternator connector (43) ,
- the pinking sensor connector (44),
- the engine harness/injection wiring connector (45),
- the crankshaft position sensor connector (46),
- the coolant temperature sensor connector (47) ,
- the petrol injection computer connectors (48),
- the engine harness/front of engine wiring connector $({\bf 49})$.

STANDARD HEATING



Disconnect the cooling fan assembly connector (50)

AIR CONDITIONING

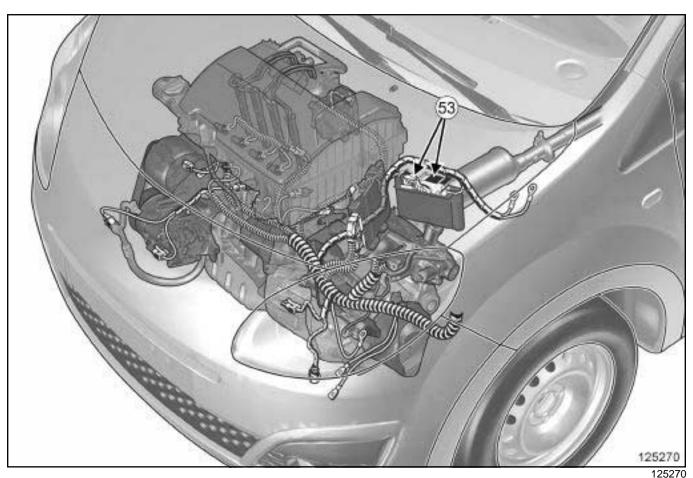


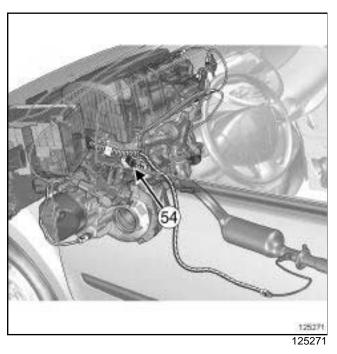
- Disconnect:
 - the engine cooling fan assembly connector (51),
 - the engine cooling fan assembly resistor connector $(\mathbf{52})$,
 - the refrigerant fluid pressure sensor connector (41)
 - the air conditioning compressor connector (42).



D4F or D7F

JH1





Disconnect:

- the sequential gearbox computer connectors (53),

- the engine harness/sequential gearbox wiring connector (54).

Remove:

- the alternator earth wiring nut (55),
- the nuts from the starter supply and earth terminals (56),
- the engine earth wiring nuts (57),
- the earth wiring nut on the front left-hand side member (58),
- the positive battery terminal wiring nut (59),
- the negative battery terminal wiring nuts (60),
- the wiring mounting nut on the battery protection fuse board *(61)*,
- the engine compartment connection unit supply wiring nut (62).

Unclip:

- the section of wiring on the cylinder head,



- the section of wiring on the cylinder block and subframe,
- the section of wiring on the engine cooling fan assembly.
- □ Remove the engine harness.

WARNING

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

REFITTING

I - REFITTING PREPARATIONS OPERATION

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

II - REFITTING OPERATION FOR PART CONCERNED

D7F

Refit the engine harness.

STANDARD HEATING

Connect the engine cooling fan assembly connector.

AIR CONDITIONING

Connect:

- the engine cooling fan assembly connector,
- the engine cooling fan assembly resistor connector,
- the air conditioning compressor connector,
- the refrigerant fluid pressure sensor connector.
- Connect:
 - the engine harness/front of engine wiring connector,

- the connectors to the petrol injection computer,
- the crankshaft position sensor connector,
- the coolant temperature sensor connector,
- the motorised throttle valve connector,
- the air inlet pressure sensor connector,
- the pinking sensor connector,
- the air inlet temperature sensor connector,
- the engine harness/injection wiring connector,
- the alternator connector,
- the radio interference suppressor connector,
- the reversing lights switch connector,
- the downstream oxygen sensor connector,
- upstream oxygen sensor connector,
- the ignition coil connector,
- the fuel vapour absorber connector,
- the oil pressure sensor connector.
- Refit:
 - the engine compartment connection unit supply terminal nut,
 - the wiring mounting nut on the battery protection fuse board,
 - the negative battery terminal wiring nuts,
 - the positive battery terminal wiring nut,
 - the earth wiring nut on the front left-hand side member,
 - the earth wiring nuts on the engine,
 - the starter wiring nuts,
 - the alternator earth wiring nut.
- Clip:
 - the section of wiring on the cylinder head,
 - the section of wiring on the cylinder block and sub-frame,
 - the section of wiring on the engine cooling fan assembly.

D4F

Refit the engine harness.



JH1

- Connect:
 - the engine harness/sequential gearbox wiring connector,
 - the sequential gearbox computer connectors.

STANDARD HEATING

□ Connect the engine cooling fan assembly connector.

AIR CONDITIONING

Connect:

- the engine cooling fan assembly connector,
- the engine cooling fan assembly resistor connector,
- the air conditioning compressor connector,
- the refrigerant fluid pressure sensor connector.

Connect:

- the engine harness/front of engine wiring connector,
- the connectors to the petrol injection computer,
- the coolant temperature sensor connector,
- the crankshaft position sensor connector,
- the engine harness/injection wiring connector,
- the pinking sensor connector,
- the alternator connector,
- the motorised throttle valve connector,
- the reverse gear switch connector,
- upstream oxygen sensor connector,
- the downstream oxygen sensor connector,
- the oil pressure sensor connector,
- the radio interference suppressor connector,
- the ignition coil connector,
- the fuel vapour absorber connector,
- the air inlet pressure sensor connector.
- Refit:
 - the engine compartment connection unit supply terminal nut,
 - the wiring mounting nut on the battery protection fuse board,
 - the negative battery terminal wiring nuts,
 - the positive battery terminal wiring nut,
 - the earth wiring nut on the front left-hand side member,
 - the earth wiring nuts on the engine,
 - the starter wiring nuts,
 - the alternator earth wiring nut.
- Clip:
 - the section of wiring on the cylinder head,
 - the section of wiring on the cylinder block and sub-frame,
 - the section of wiring on the engine cooling fan assembly.



III - FINAL OPERATION.

- Refit:
 - the battery tray (see 80A, Battery, Battery tray: Removal Refitting, page 80A-6),
 - the air filter unit (see **Air filter unit: Removal Re-fitting**) (MR 411, 12A, Fuel mixture),
 - the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-2**),
 - the engine cover,
 - the cover from the engine compartment connection unit,
 - the engine compartment connection unit cover bolts.



EQUIPMENT LEVEL SPORT

Equipment required

- indelible pencil
- Diagnostic tool

Tightening torques 灾	
starter supply nut	8 N.m
starter solenoid nut	5 N.m
alternator positive termi- nal nut	21 N.m
earth nuts on the front left-hand side member	8 N.m
earth bolt on the gear- box	44 N.m
engine compartment connection unit supply terminal nut	12 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 88A, Wiring harness, Wiring: Precautions for the repair, page 88A-2).

WARNING

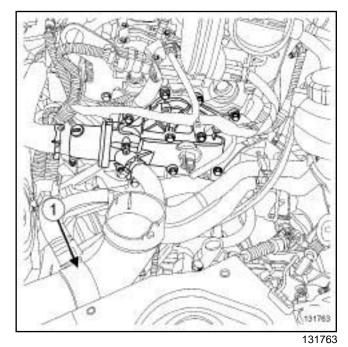
To prevent any damage to the connectors, consult the disconnection procedures (see **Connectors: Disconnection and reconnection**) (Technical Note 6015A, 88A, Wiring).

REMOVAL

I - REMOVAL PREPARATION OPERATION

- Position the vehicle on a two-post lift (see Vehicle: Towing and lifting) (02A, Lifting equipment).
- Switch off the ignition.
- Remove:
 - the engine undertray,
 - the front wheels (see **Wheel: Removal Refitting**) (35A, Wheels and tyres),

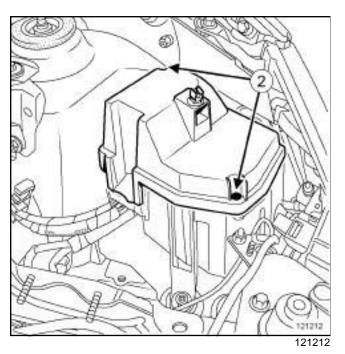
- the front wheel arch liners (see **Front wheel arch liner: Removal Refitting**) (55A, Exterior protection),
- the front bumper (see Front bumper: Removal Refitting) (55A, Exterior protection),
- the left-hand headlight (see **80B**, **Headlights**, **Halogen headlight: Removal Refitting**, page **80B-7**),
- the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-2**),
- the battery tray (see 80A, Battery, Battery tray: Removal Refitting, page 80A-6) ,
- the air filter unit (see **Air filter unit: Removal Re-fitting**) (12A, Fuel mixture),
- the windscreen wiper arms (see **85A**, **Wiping -Washing**, **Windscreen wiper arm: Removal - Refitting**, page **85A-6**),
- the scuttle panel grille (see **Scuttle panel grille: Removal Refitting**) (56A, Exterior equipment),
- the scoop under the scuttle panel grille (see **Scoop** under the scuttle panel grille: Removal - Refitting) (56A, Exterior equipment).



□ Remove the air pipe at the air filter unit inlet (1).



EQUIPMENT LEVEL SPORT



□ Remove:

- the bolts (2) from the engine compartment connection unit cover,

- the cover to the engine compartment connection unit.

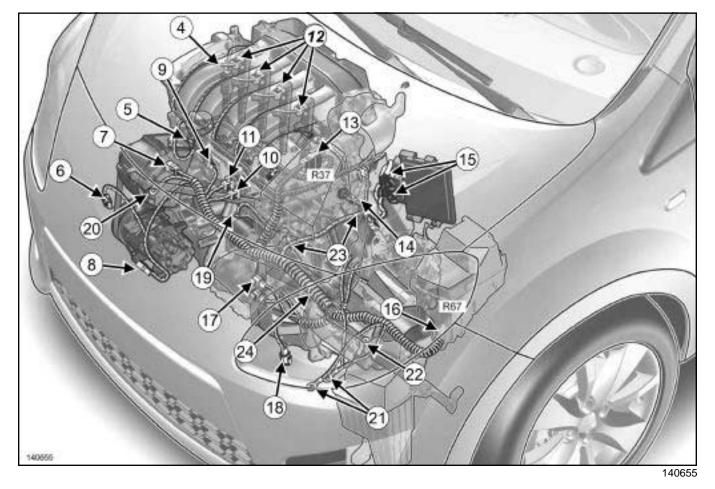
RIGHT-HAND DRIVE

□ Remove the injection computer tamperproof panel from the injection computer mounting.

II - OPERATION FOR REMOVAL OF PART CONCERNED

WARNING

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



Disconnect the connectors from:

- the camshaft position sensor (4),

I

EQUIPMENT LEVEL SPORT

- the air temperature sensor (5) ,
- the coolant circuit pressure sensor (6) ,
- the alternator (7),
- the air conditioning compressor $(\mathbf{8})$,
- the upstream oxygen sensor (9),
- the pinking sensor (10),
- the oil pressure sensor (11) ,
- the ignition coils (12) ,
- the engine wiring/injection wiring connector (R37) (13) ,
- the coolant temperature sensor (14) ,
- the petrol injection computer (15),
- the engine fuse and relay box (16) ,
- the cooling fan assembly (17),
- the air conditioning fan assembly resistors (18) .

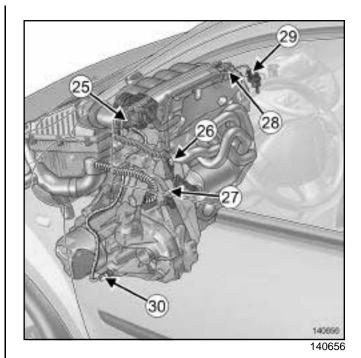
Note:

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

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

Remove:

- the starter supply terminal nuts (19),
- the wiring nut on the alternator (20) ,
- the earth cable nuts on the front left-hand side member $({\bf 21})$,
- the earth cable bolt on the gearbox $\left(22\right)$,
- the bolts of the engine wiring channel (23) ,
- the engine wiring support nut on the left-hand suspended engine mounting (24) .
- Unclip:
 - the distribution unit wiring section,
 - the gearbox wiring section.

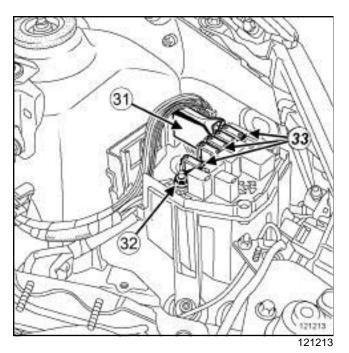


Disconnect the connectors from:

- the throttle valve (25),
- the downstream oxygen sensor (26),
- the crankshaft position sensor (27),
- the air inlet pressure sensor (28),
- the fuel vapour absorber bleed solenoid valve (29),
- the reverse gear switch (30) .



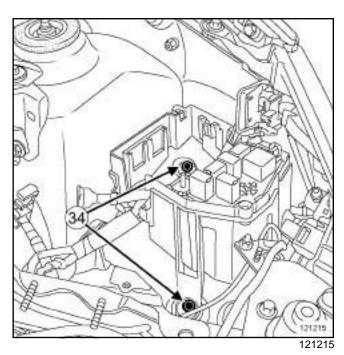
EQUIPMENT LEVEL SPORT



- Unlock the engine wiring/front of engine wiring connector (31) (R67).
- □ Disconnect the engine wiring/front of engine wiring connector (**31**) (R67).
- □ Remove:
 - the nut (**32**) of the engine compartment connection unit supply terminal,
 - the fuse holder assembly (**33**) of the engine compartment connection unit.

WARNING

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



Remove:

- the engine compartment connection unit nuts (34),
- the engine wiring.

REFITTING

I - REFITTING PREPARATION OPERATION

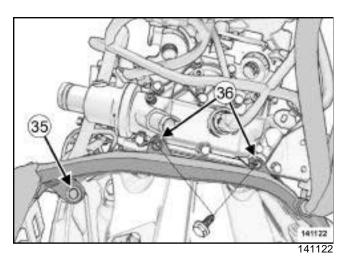
□ If replacing with a complete wiring harness, lock the unused connectors (see **Connectors: Sealing and locking**) (Technical Note 6015A, 88A, Wiring).

II - REFITTING OPERATION FOR PART CONCERNED

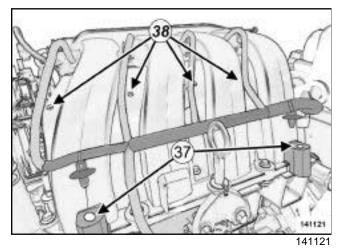
- Refit the engine harness.
- Position the engine wiring starter terminals facing the starter studs.



EQUIPMENT LEVEL SPORT



- □ Fit the engine wiring channel pin (**35**) in the clutch housing hole.
- □ Refit the engine wiring channel on the water chamber (36).

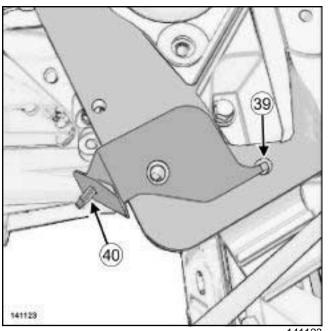


- Clip:
 - the engine wiring onto the intake distributor (37),
 - the ignition coil by passes on the intake distributor $({\bf 38})$.
- □ Connect the connectors of:
 - the ignition coils,
 - the camshaft position sensor,
 - the air temperature sensor,
 - the alternator,
 - the coolant circuit pressure sensor,
 - the air conditioning compressor,
 - the upstream oxygen sensor,
 - the pinking sensor,
 - the oil pressure sensor.

- Refit:
 - the starter supply terminal,
 - the starter solenoid terminal,
 - the alternator positive terminal.
- □ Tighten to torque:
 - the starter supply nut (8 N.m),
 - the starter solenoid nut (5 N.m),
 - the alternator positive terminal nut (21 N.m).
- Connect the connectors of:
 - the air conditioning fan assembly resistors,
 - the cooling fan assembly,
 - the coolant temperature sensor,
 - the throttle valve,
 - the downstream oxygen sensor,
 - the crankshaft position sensor.
- Refit:
 - the earths on the front left-hand side member, positioning the cables in the position marked during removal,
 - the earth cable on the gearbox in the position marked during removal.
- □ Tighten to torque:
 - the earth nuts on the front left-hand side member (8 N.m),
 - the earth bolt on the gearbox (44 N.m).

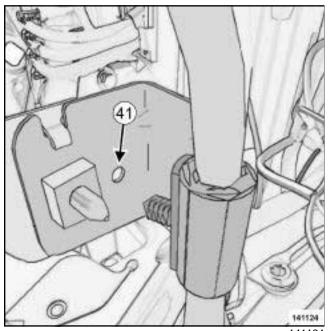


EQUIPMENT LEVEL SPORT



141123

- Index the engine wiring retaining bracket in the hole (39) of the battery tray mounting.
- □ Refit the engine wiring clamp on the bracket (40).
- Connect the reverse gear switch connector.



141124

- □ Clip the bypass of the positive cable and earth cable onto the mounting bracket (41) of the air filter tie rod.
- Refit:
 - the engine compartment connection unit,
 - the supply terminal of the engine compartment connection unit.

- the fuse holders on the engine compartment connection unit,
- □ Connect the engine wiring/front of engine wiring connector (R67).
- Lock the engine wiring/front of engine wiring connector (R67).
- □ Torque tighten the engine compartment connection unit supply terminal nut (12 N.m).
- □ Refit the cover of the engine compartment connection unit and check that the cover is definitely in contact with the unit casing.
- Connect the injection computer connectors.

RIGHT-HAND DRIVE

□ Refit the injection computer tamperproof panel on the injection computer mounting.

III - FINAL OPERATION

Refit:

- the air pipe at the air filter unit inlet,
- the air filter unit (see Air filter unit: Removal Refitting) (12A, Fuel mixture),
- the battery tray (see 80A, Battery, Battery tray: Removal - Refitting, page 80A-6),
- the battery (see 80A, Battery, Battery: Removal -Refitting, page 80A-2),
- the cover from the engine compartment connection unit.
- the scoop under the scuttle panel grille (see Scoop under the scuttle panel grille: Removal - Refitting) (56A, Exterior equipment),
- the scuttle panel grille (see Scuttle panel grille: Removal - Refitting) (56A, Exterior equipment),
- the windscreen wiper arms (see 85A, Wiping -Washing, Windscreen wiper arm: Removal - Refitting, page 85A-6),
- the left-hand headlight (see 80B, Headlights, Halogen headlight: Removal - Refitting, page 80B-7),
- the front bumper (see Front bumper: Removal -Refitting) (55A, Exterior protection),
- the front wheel arch liners (see Front wheel arch liner: Removal - Refitting) (55A, Exterior protection),



EQUIPMENT LEVEL SPORT

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

IV - CHECKING AFTER REPAIR

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

WIRING HARNESS

Passenger compartment wiring: Connector access

LEFT-HAND DRIVE

I - LOCATION OF CONNECTORS

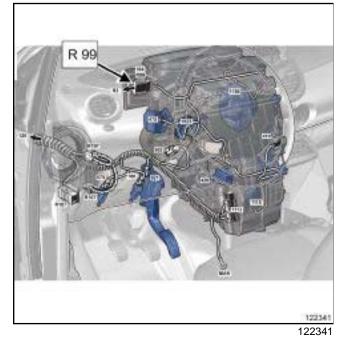
1 - R 107



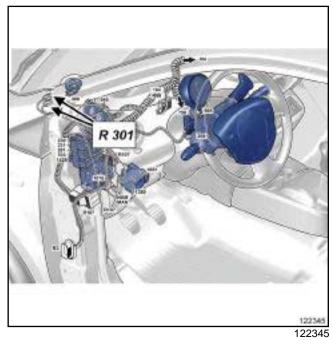
122341

R 107 connectors (Dashboard / front of engine connection).

2 - R 99



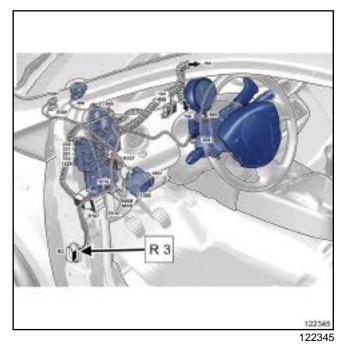
R 99 connector (Dashboard / heating system connection). 3 - R 301



88

R 301 connectors (Dashboard / interior lights connection).

4 - R 3



R 3 connector (Dashboard / driver's door connection).

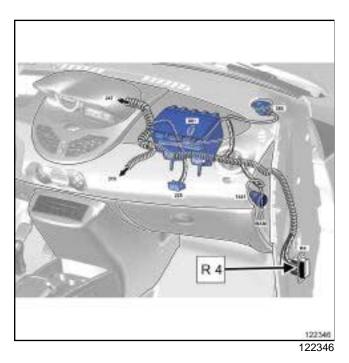


WIRING HARNESS

Passenger compartment wiring: Connector access

LEFT-HAND DRIVE

5 - R 4

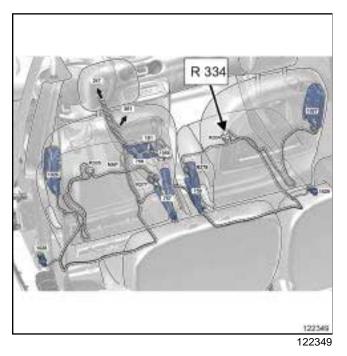


R 4 connector (Dashboard / passenger's door connection).

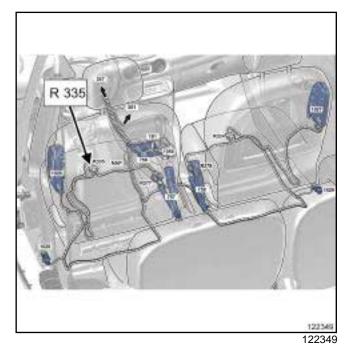
Note:

Connectors R 3 and R 4 are identical.

6 - R 334



R 334 connector (Passenger compartment / passenger's front seat connection). 7 - R 335

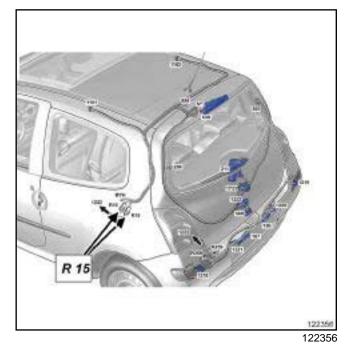


88

R 335 connector (Passenger compartment / driver's front seat connection).

Note: Connectors R 334 and R 335 are identical.

8 - R 15

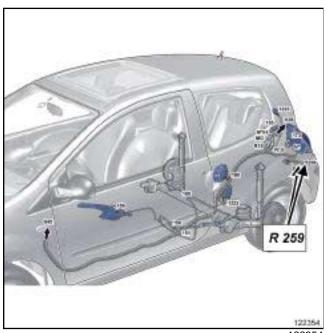


R 15 connectors (Rear left-hand / tailgate connection).

WIRING HARNESS Passenger compartment wiring: Connector access

LEFT-HAND DRIVE

9 - R 259



122354

□ R 259 connectors (Passenger compartment / rear bumper connection).

II - CONNECTOR OPENING

IMPORTANT

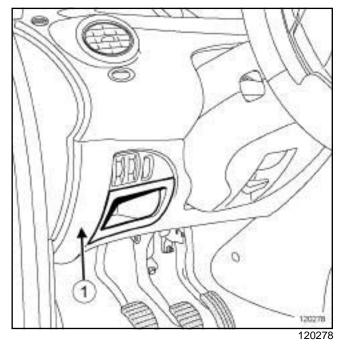
Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see 88A, Wiring harness, Wiring: Precautions for the repair, page 88A-2).

WARNING

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

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

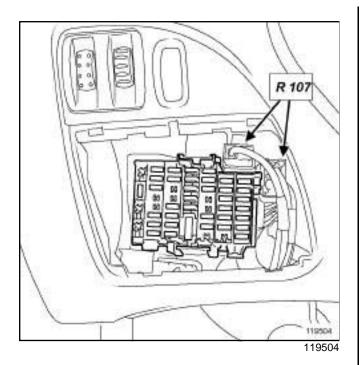
1 - Accessing R 107 connectors

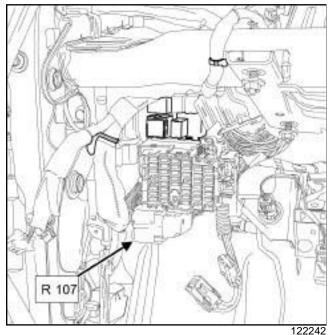


- Unclip the dashboard lower trim (1).
- Disconnect the connectors.

Passenger compartment wiring: Connector access

LEFT-HAND DRIVE

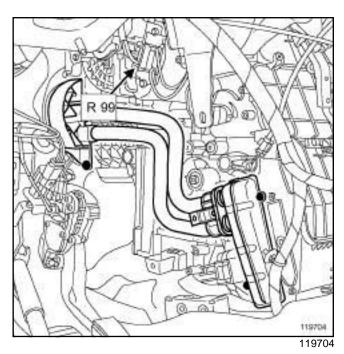




Disconnect the R 107 connectors.

2 - Accessing the R 99 connector

 Remove the dashboard (see Dashboard: Removal - Refitting) (MR 412, 57A, Interior equipment).

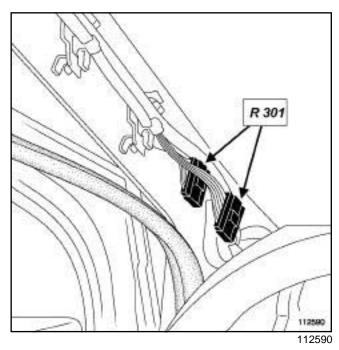


88

Disconnect the R 99 connector.

3 - Accessing R 301 connectors

Remove the left-hand windscreen pillar trim (see Windscreen pillar trim: Removal - Refitting) (MR 412, 71A, Body internal trim).



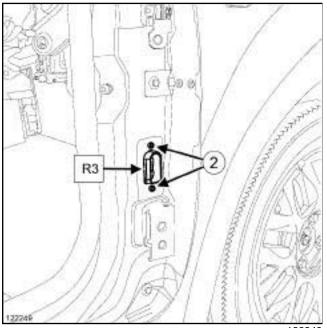
Disconnect the R 301 connectors.

Passenger compartment wiring: Connector access

LEFT-HAND DRIVE

4 - Accessing the R 3 connector

- Remove:
 - the front left-hand door sill lining (see **Front door** sill lining: Removal Refitting) (MR 412, 71A, Body internal trim),
 - the front left-hand door (see Front side door: Removal Refitting) (MR 412, 47A, Side doors).

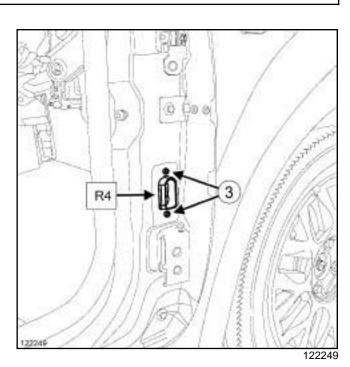




- □ Remove the bolts (2).
- □ Unclip the R 3 connector.

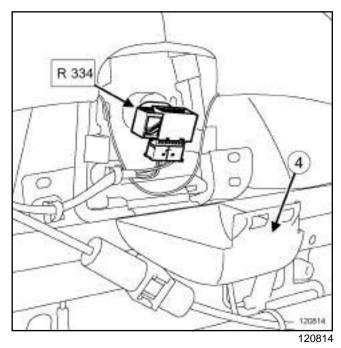
5 - Accessing the R 4 connector

- Remove:
 - the front right-hand door sill lining (see Front door sill lining: Removal Refitting) (MR 412, 71A, Body internal trim),
 - the front right-hand door (see Front side door: Removal Refitting) (MR 412, 47A, Side doors).



- □ Remove the bolts (3).
- Unclip the R 4 connector.

6 - Accessing the R 334 connector

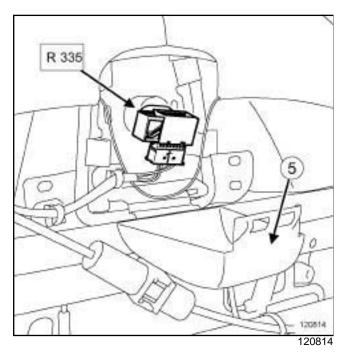


- Unclip the cover (4) under the front passenger seat base.
- Disconnect the R 334 connector.

Passenger compartment wiring: Connector access

LEFT-HAND DRIVE

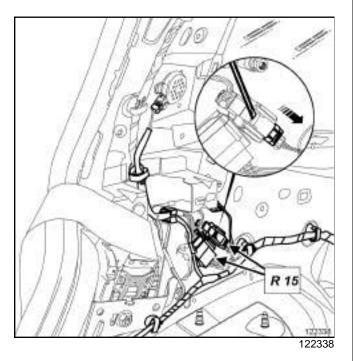
7 - Accessing the R 335 connector



- □ Unclip the cover (5) under the driver's seat base.
- Disconnect the R 335 connector.

8 - Accessing the R 15 connectors

Remove the rear left-hand wheel arch liner (see Rear wheel arch trim: Removal - Refitting) (MR 412, 71A, Body internal trim).



Disconnect the R 15 connectors.

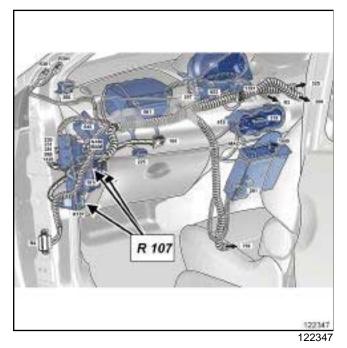
- 9 Accessing the R 259 connector
- □ Remove:
 - the rear lights on the wing (see 81A, Rear lighting, Rear wing light: Removal - Refitting, page 81A-3),
 - the rear bumper (see **Rear bumper: Removal - Refitting**) (MR 412, 55A, Exterior protection).
- Disconnect the R 259 connector.

Passenger compartment wiring: Connector access

RIGHT-HAND DRIVE

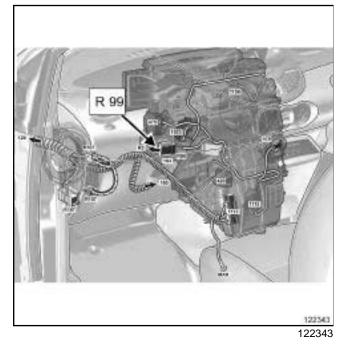
I - LOCATION OF CONNECTORS

1 - R 107



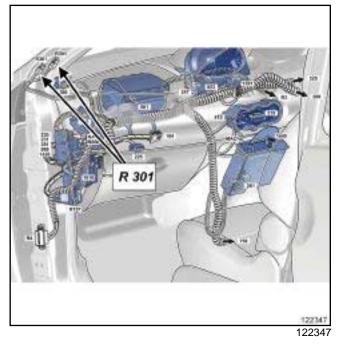
□ R 107 connectors (Dashboard / front of engine connection).

2 - R 99



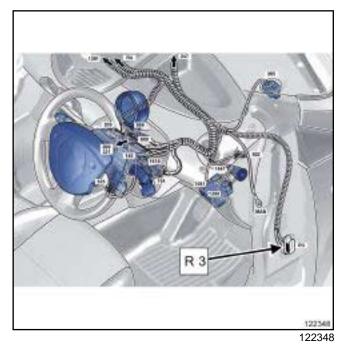
□ R 99 connector (Dashboard / heating system connection).

3 - R 301



R 301 connectors (Dashboard / interior lights connection).

4 - R 3



R3 connector (Dashboard / driver's door connection).

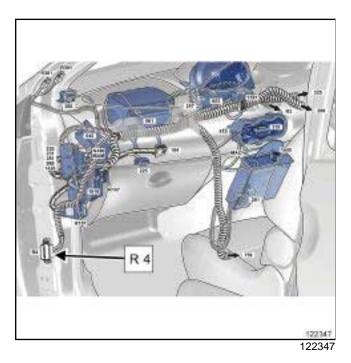


WIRING HARNESS Passenger compartment wiring: Connector access



RIGHT-HAND DRIVE

5 - R 4

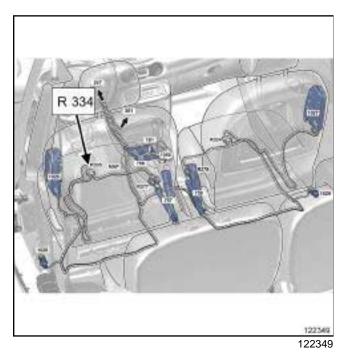


R 4 connector (Dashboard / passenger's door connection).

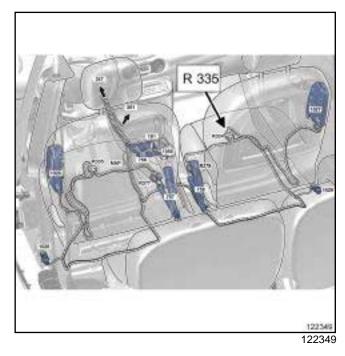
Note:

Connectors R 3 and R 4 are identical.

6 - R 334



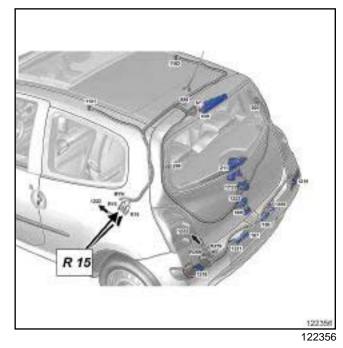
R 334 connector (Passenger compartment / passenger's front seat connection). 7 - R 335



R 335 connector (Passenger compartment / driver's front seat connection).

Note: Connectors R 334 and R 335 are identical.

8 - R 15

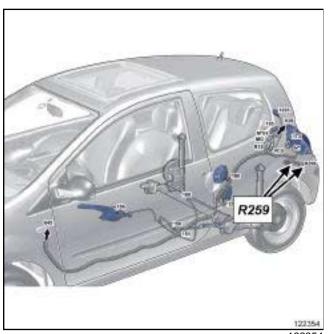


R 15 connectors (Rear left-hand / tailgate connection).



RIGHT-HAND DRIVE

9 - R 259



122354

□ R 259 connectors (Passenger compartment / rear bumper connection).

II - CONNECTOR OPENING

IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see 88A, Wiring harness, Wiring: Precautions for the repair, page 88A-2).

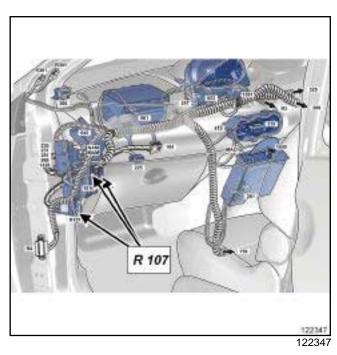
WARNING

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

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

1 - Accessing R 107 connectors

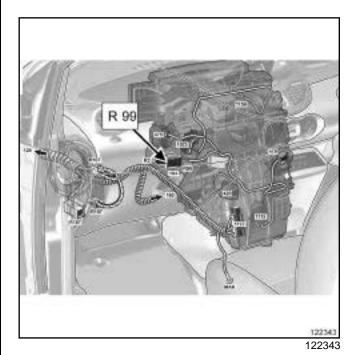
□ Remove the glovebox (see Glovebox: Removal -Refitting) (MR 412, 57A, Interior equipment).



Disconnect the R 107 connectors.

2 - Accessing the R 99 connector

□ Remove the dashboard (see **Dashboard: Removal** - Refitting) (MR 412, 57A, Interior equipment).



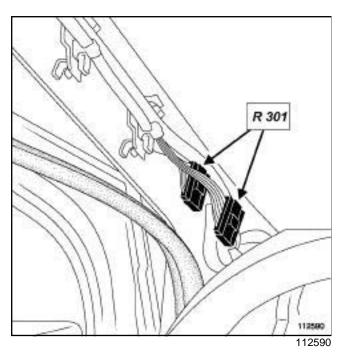
Disconnect the R 99 connector.

3 - Accessing R 301 connectors

□ Remove the left-hand windscreen pillar trim (see Windscreen pillar trim: Removal - Refitting) (MR 412, 71A, Body internal trim).

Passenger compartment wiring: Connector access

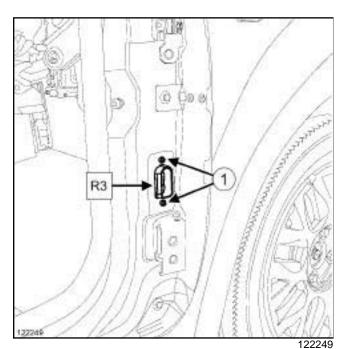
RIGHT-HAND DRIVE



Disconnect the R 301 connectors.

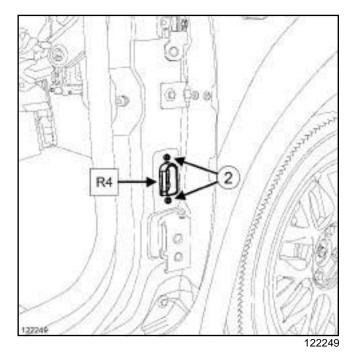
4 - Accessing the R 3 connector

- □ Remove:
 - the front right-hand door sill lining (see **Front door** sill lining: Removal Refitting) (MR 412, 71A, Body internal trim),
 - the front right-hand door (see Front side door: Removal Refitting) (MR 412, 47A, Side doors).



- Remove the bolts (1).
- Unclip the R 3 connector.

- 5 Accessing the R 4 connector
- Remove:
 - the front left-hand door sill lining (see **Front door** sill lining: Removal Refitting) (MR 412, 71A, Body internal trim),
 - the front left-hand door (see Front side door: Removal Refitting) (MR 412, 47A, Side doors).

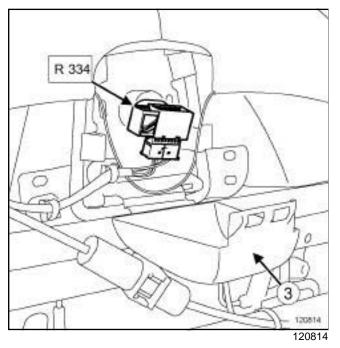


- Remove the bolts (2) .
- □ Unclip the R 4 connector.

Passenger compartment wiring: Connector access

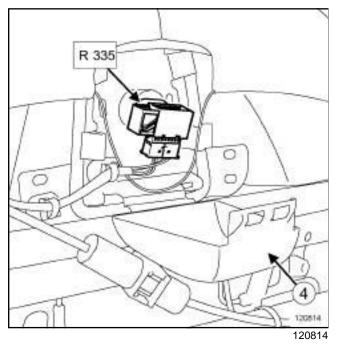
RIGHT-HAND DRIVE

6 - Accessing the R 334 connector



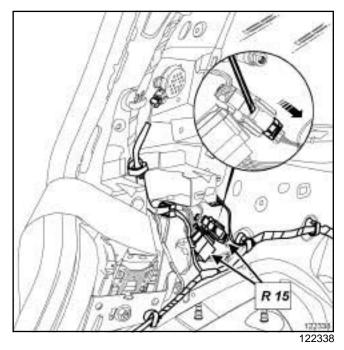
- □ Unclip the cover (3) under the front passenger seat base.
- Disconnect the R 334 connector.

7 - Accessing the R 335 connector



- Unclip the cover (4) under the driver's seat base.
- Disconnect the R 335 connector.

- 8 Accessing the R 15 connectors
- Remove the rear left-hand wheel arch liner (see Rear wheel arch trim: Removal - Refitting) (MR 412, 71A, Body internal trim).



Disconnect the R 15 connectors.

9 - Accessing the R 259 connector

- Remove:
 - the rear lights on the wing (see 81A, Rear lighting, Rear wing light: Removal - Refitting, page 81A-3) ,
 - the rear bumper (see **Rear bumper: Removal - Refitting**) (MR 412, 55A, Exterior protection).
- Disconnect the R 259 connector.

Passenger compartment wiring: Removal - Refitting

LEFT-HAND DRIVE

Equipment required

Diagnostic tool

IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see 88A, Wiring harness, Wiring: Precautions for the repair, page 88A-2).

IMPORTANT

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

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

IMPORTANT

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

REMOVAL

I - REMOVAL PREPARATION OPERATION

- Position the vehicle on a two-post lift (see Vehicle: Towing and lifting) (MR 411, 02A, Lifting equipment).
- Lock the airbag computer using the Diagnostic tool (see Fault finding - Replacement of components) (MR 413, 88C, Airbags and pretensioners).
- □ Switch off the ignition.
- □ Disconnect the battery (see 80A, Battery, Battery: Removal Refitting, page 80A-2).

WARNING

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

Remove:

- the rear lights on the wing (see 81A, Rear lighting, Rear wing light: Removal - Refitting, page 81A-3),
- the rear bumper (see **Rear bumper: Removal - Refitting**) (MR 412, 55A, Exterior protection),
- the front seats (see **Complete front seat: Remo**val - **Refitting**) (MR 412, 75A, Front seat frames and runners),
- the rear bench seat base (see **Rear bench seat base: Removal Refitting**) (MR 412, 76A, Rear seat frames and runners),
- the rear bench seatback (see **Rear bench seatback: Removal - Refitting**) (MR 412, 76A, Rear seat frames and runners),
- the driver's side front airbag (see 88C, Air bag and Pretensioners, Driver's frontal airbag: Removal
 Refitting, page 88C-6),
- the steering wheel (see **Steering wheel: Removal Refitting**) (MR 411, 36A, Steering assembly).

ENGINE REV COUNTER

Remove the rev counter (see 83A, Instrument panel, Rev counter: Removal - Refitting, page 83A-3).

□ Remove:

- the steering column switch assembly (see 84A, Control - Signals, Steering column switch assembly: Removal - Refitting, page 84A-2),
- the instrument panel (see 83A, Instrument panel, Instrument panel: Removal - Refitting, page 83A-1),
- the passenger front airbag (see 88C, Air bag and Pretensioners, Passenger's frontal airbag: Removal - Refitting, page 88C-8),
- the glovebox (see **Glovebox: Removal Refit-ting**) (MR 412, 57A, Interior equipment),
- the radio (see 86A, Radio, Radio: Removal Refitting, page 86A-4),
- the centre front panel (see **Centre front panel: Removal - Refitting**) (MR 412, 57A, Interior equipment),
- the hazard warning lights control (see 84A, Control - Signals, Hazard warning lights and central door control: Removal - Refitting, page 84A-10)

Passenger compartment wiring: Removal - Refitting

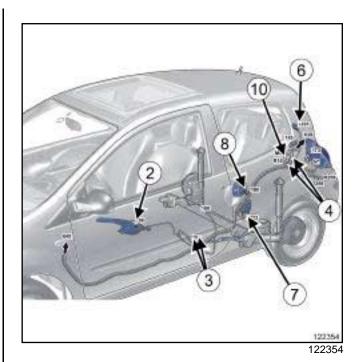
LEFT-HAND DRIVE

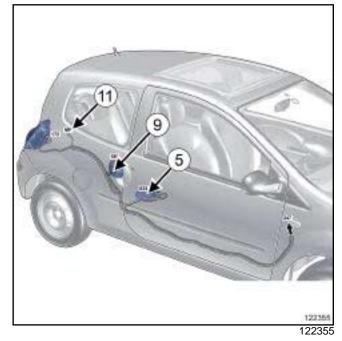
- the A-pillar trims (see Windscreen pillar trim: Removal Refitting) (MR 412, 71A, Body internal trim),
- the centre console (see **Centre console: Removal** - **Refitting**) (MR 412, 57A, Interior equipment),
- the tweeters (see **86A**, **Radio**, **Tweeter: Removal** - **Refitting**, page **86A-7**),
- the dashboard (see **Dashboard: Removal Refitting**) (MR 412, 57A, Interior equipment),
- the front door sill inner trims (see **Front door sill lining: Removal - Refitting**) (MR 412, 71A, Body internal trim),
- the rear parcel shelf side trims (see Rear parcel shelf side trim: Removal Refitting) (MR 412, 71A, Body internal trim),
- the rear panel trims (see **Rear panel lining: Removal - Refitting**) (MR 412, 71A, Body internal trim),
- the rear quarter panel trims (see **Quarter panel trim: Removal Refitting**) (MR 412, 71A, Body internal trim),
- the floor carpets (see **Floor carpet: Removal Refitting**) (MR 412, 71A, Body internal trim),
- the rear wheel arch trim (see **Rear wheel arch trim: Removal Refitting**) (MR 412, 71A, Body internal trim).

II - REMOVAL OPERATION FOR PART CONCERNED

WARNING

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





Disconnect:

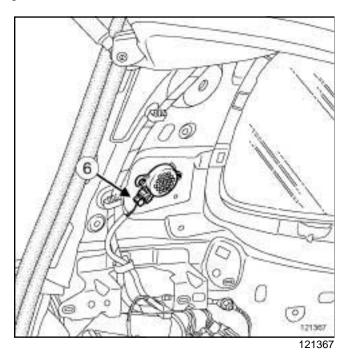
- the parking brake switch connector (2),
- the rear wheel speed sensor wiring connectors (3),
- the passenger compartment wiring / tailgate wiring connectors (4) ,
- the fuel pump connector (5).

88A-55

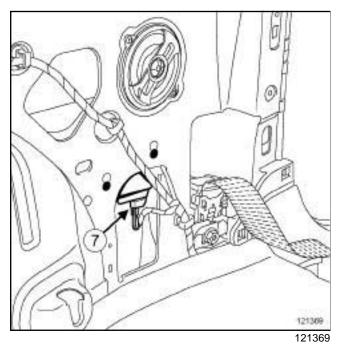
Passenger compartment wiring: Removal - Refitting

LEFT-HAND DRIVE

REAR PROXIMITY RADAR



Disconnect the connector (6) from the parking distance control buzzer.



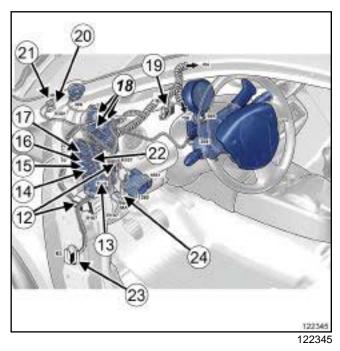
Disconnect the connector (7) from the parking distance control computer.

WITH 4 SPEAKERS, WITHOUT RADIO or RADIO NO. 03

- Disconnect:
 - the left-hand speaker connector (8),
 - the right-hand speaker connector (9).

Remove:

- the rear left-hand earth wiring nut (10),
- the rear right-hand earth wiring nut (11).
- □ Unpick the rear section of the wiring.



- Disconnect:
 - the passenger compartment wiring / front left-hand wiring connectors (12) ,
 - the passenger compartment fuse box connector $({\bf 13})$,
 - the passenger compartment fan assembly relay connector (14) ,
 - the electric window relay connector (15),
 - the dipped headlights relay connector (16),
 - the rear fog light relay connector (17),
 - the UCH connectors (18) ,
 - the passenger compartment wiring / heating system wiring connector (19) ,

Passenger compartment wiring: Removal - Refitting

LEFT-HAND DRIVE

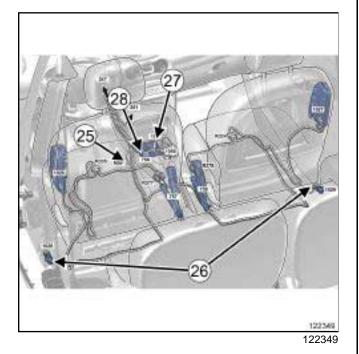
- the passenger compartment wiring / interior lights wiring connector (**20**) .

OPENING ROOF

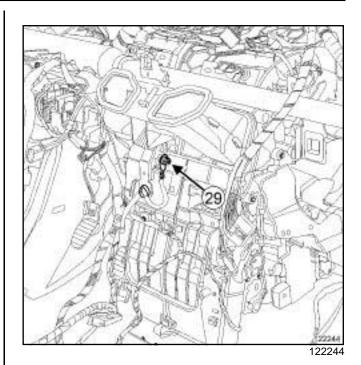
Disconnect the passenger compartment wiring / sunroof wiring connector (21).

FOG LIGHTS

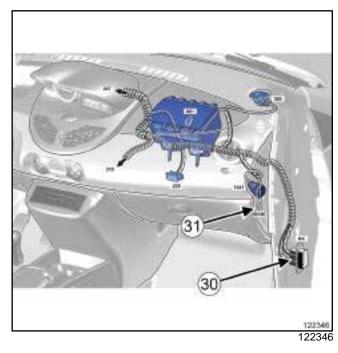
- Disconnect the fog light relay connector (22).
- Disconnect the passenger compartment wiring / driver's door wiring connector (23).
- Remove:
 - the passenger compartment wiring / driver's door wiring connector,
 - the dashboard cross member earth wiring nut (24).



- □ Remove the tunnel earth wiring nut (25).
- Disconnect:
 - the side impact sensor connectors (26) ,
 - the gear lever switch connector (27),
 - the airbag computer connector (28) .



□ Remove the radio earth wiring nut (29).



- Disconnect the passenger compartment wiring / passenger's door wiring connector (30).
- □ Remove:
 - the passenger compartment wiring / passenger's door wiring connector bolts,
 - the earth wiring nut on the right-hand side of the dashboard (31).
- Unclip:
 - the section of wiring on the dashboard,

Passenger compartment wiring: Removal - Refitting

LEFT-HAND DRIVE

- the section of wiring on the floor.

□ Remove the passenger compartment wiring.

WARNING

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

REFITTING

I - REFITTING PREPARATIONS OPERATION

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

II - REFITTING OPERATION FOR PART CONCERNED

- □ Refit the passenger compartment wiring.
- Clip:
 - the section of wiring onto the floor,
 - the section of wiring onto the dashboard.
- Refit:
 - the earth wiring nut on the right-hand side of the dashboard,
 - the passenger compartment wiring / passenger's door wiring connector bolts.
- □ Connect the passenger compartment wiring / passenger's door wiring connector.
- □ Refit the radio earth wiring nut.
- Connect:
 - the airbag computer connector,
 - the gear lever switch connector,
 - the side impact sensor connectors.
- Refit:
 - the tunnel earth wiring nut,
 - the dashboard cross member earth wiring nut,
 - the passenger compartment wiring / driver's door wiring connector bolts.
- Connect the passenger compartment wiring / driver's door wiring connector.

FOG LIGHTS

□ Connect the fog light relay connector.

OPENING ROOF

- Connect the passenger compartment wiring / sunroof wiring connector.
- Connect:
 - the passenger compartment wiring / interior lights wiring connector,
 - the passenger compartment wiring / heating system wiring connector,
 - the UCH connectors,
 - the rear fog light relay connector,
 - the dipped headlights relay connector,
 - the electric window relay connector,
 - the passenger compartment fan assembly relay connector,
 - the passenger compartment fuse box connector,
 - the passenger compartment wiring / front left-hand wiring connectors.
- □ Clip on the rear section of the wiring.
- Refit:
 - the rear right-hand earth wiring nut,
 - the rear left-hand earth wiring nut.

WITH 4 SPEAKERS, WITHOUT RADIO or RADIO NO. 03

Connect:

- the right-hand speaker connector,
- the left-hand speaker connector.

REAR PROXIMITY RADAR

Connect:

- the parking distance control computer connector,

Passenger compartment wiring: Removal - Refitting

LEFT-HAND DRIVE

- the parking distance control buzzer connector.

Connect:

- the fuel pump connector,
- the rear wheel speed sensor wiring connectors,
- the passenger compartment wiring / tailgate wiring connectors,
- the parking brake switch connector.

III - FINAL OPERATION.

- Refit:
 - the rear wheel arch trim (see **Rear wheel arch trim: Removal Refitting**) (MR 412, 71A, Body internal trim),
 - the rear quarter panel trims (see **Quarter panel trim: Removal Refitting**) (MR 412, 71A, Body internal trim),
 - the rear parcel shelf side trims (see **Rear parcel shelf side trim: Removal Refitting**) (MR 412, 71A, Body internal trim),
 - the floor carpets (see Floor carpet: Removal Refitting) (MR 412, 71A, Body internal trim),
 - the rear panel trims (see **Rear panel lining: Removal - Refitting**) (MR 412, 71A, Body internal trim),
 - the front door sill inner trims (see **Front door sill lining: Removal Refitting**) (MR 412, 71A, Body internal trim),
 - the dashboard (see **Dashboard: Removal Refitting**) (MR 412, 57A, Interior equipment),
 - the tweeters (see **86A**, **Radio**, **Tweeter: Removal** - **Refitting**, page **86A-7**),
 - the centre console (see **Centre console: Removal** - **Refitting**) (MR 412, 57A, Interior equipment),
 - the A-pillar trims (see **Windscreen pillar trim: Removal - Refitting**) (MR 412, 71A, Body internal trim),
 - the hazard warning lights control (see 84A, Control - Signals, Hazard warning lights and central door control: Removal - Refitting, page 84A-10)
 - the centre front panel (see **Centre front panel: Removal - Refitting**) (MR 412, 57A, Interior equipment),
 - the radio (see **86A**, **Radio**, **Radio**: **Removal Refitting**, page **86A-4**),

- the glovebox (see **Glovebox: Removal Refitting**) (MR 412, 57A, Interior equipment),
- the passenger front airbag (see 88C, Air bag and Pretensioners, Passenger's frontal airbag: Removal - Refitting, page 88C-8),
- the instrument panel (see 83A, Instrument panel, Instrument panel: Removal Refitting, page 83A-1),
- the steering column switch assembly (see 84A, Control - Signals, Steering column switch assembly: Removal - Refitting, page 84A-2).

ENGINE REV COUNTER

□ Refit the rev counter (see 83A, Instrument panel, Rev counter: Removal - Refitting, page 83A-3).

Refit:

- the steering wheel (see **Steering wheel: Removal Refitting**) (MR 411, 36A, Steering assembly),
- the driver's front airbag (see 88C, Air bag and Pretensioners, Driver's frontal airbag: Removal -Refitting, page 88C-6),
- the rear bench seatback (see **Rear bench seatback: Removal - Refitting**) (MR 412, 76A, Rear seat frames and runners),
- the rear bench seat base (see **Rear bench seat base: Removal Refitting**) (MR 412, 76A, Rear seat frames and runners),
- the front seats (see **Complete front seat: Removal - Refitting**) (MR 412, 75A, Front seat frames and runners),
- the rear bumper (see **Rear bumper: Removal - Refitting**) (MR 412, 55A, Exterior protection),
- the rear lights on the wing (see 81A, Rear lighting, Rear wing light: Removal - Refitting, page 81A-3).
- □ Connect the battery (see 80A, Battery, Battery: Removal - Refitting, page 80A-2).
- Unlock the airbag computer using the Diagnostic tool (see Fault finding - Replacement of components) (MR 413, 88C, Airbags and pretensioners).

Passenger compartment wiring: Removal - Refitting

RIGHT-HAND DRIVE

Equipment required

Diagnostic tool

IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see 88A, Wiring harness, Wiring: Precautions for the repair, page 88A-2).

IMPORTANT

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

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

IMPORTANT

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

REMOVAL

I - REMOVAL PREPARATION OPERATION

- Position the vehicle on a two-post lift (see Vehicle: Towing and lifting) (MR 411, 02A, Lifting equipment).
- Lock the airbag computer using the Diagnostic tool (see Fault finding - Replacement of components) (MR 413, 88C, Airbags and pretensioners).
- □ Switch off the ignition.
- □ Disconnect the battery (see 80A, Battery, Battery: Removal Refitting, page 80A-2).

WARNING

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

Remove:

- the rear lights on the wing (see 81A, Rear lighting, Rear wing light: Removal - Refitting, page 81A-3),
- the rear bumper (see **Rear bumper: Removal - Refitting**) (MR 412, 55A, Exterior protection),
- the front seats (see **Complete front seat: Remo**val - **Refitting**) (MR 412, 75A, Front seat frames and runners),
- the rear bench seat base (see **Rear bench seat base: Removal Refitting**) (MR 412, 76A, Rear seat frames and runners),
- the rear bench seatback (see **Rear bench seatback: Removal - Refitting**) (MR 412, 76A, Rear seat frames and runners),
- the driver's front airbag (see 88C, Air bag and Pretensioners, Driver's frontal airbag: Removal -Refitting, page 88C-6),
- the steering wheel (see **Steering wheel: Removal Refitting**) (MR 411, 36A, Steering assembly).

ENGINE REV COUNTER

Remove the rev counter (see 83A, Instrument panel, Rev counter: Removal - Refitting, page 83A-3).

Remove:

- the steering column switch assembly (see 84A, Control - Signals, Steering column switch assembly: Removal - Refitting, page 84A-2),
- the instrument panel (see 83A, Instrument panel, Instrument panel: Removal - Refitting, page 83A-1),
- the passenger front airbag (see 88C, Air bag and Pretensioners, Passenger's frontal airbag: Removal - Refitting, page 88C-8),
- the glovebox (see **Glovebox: Removal Refit-ting**) (MR 411, 57A, Interior equipment),
- the radio (see 86A, Radio, Radio: Removal Refitting, page 86A-4),
- the centre front panel (see **Centre front panel: Removal - Refitting**) (MR 411, 57A, Interior equipment),
- the hazard warning lights control (see 84A, Control - Signals, Hazard warning lights and central door control: Removal - Refitting, page 84A-10)

Passenger compartment wiring: Removal - Refitting

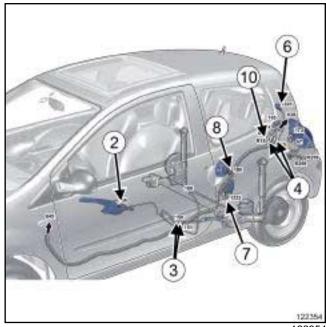
RIGHT-HAND DRIVE

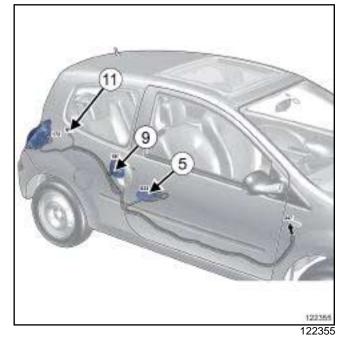
- the A-pillar trims (see Windscreen pillar trim: Removal - Refitting) (MR 412, 71A, Body internal trim),
- the centre console (see Centre console: Removal - Refitting) (MR 412, 57A, Interior equipment),
- the tweeters (see 86A, Radio, Tweeter: Removal - Refitting, page 86A-7),
- the dashboard (see Dashboard: Removal Refitting) (MR 412, 57A, Interior equipment),
- the front door sill inner trims (see Front door sill lining: Removal - Refitting) (MR 412, 71A, Body internal trim),
- the rear panel trims (see Rear panel lining: Removal - Refitting) (MR 412, 71A, Body internal trim),
- the floor carpets (see Floor carpet: Removal Refitting) (MR 412, 71A, Body internal trim),
- the quarter panel trims (see Quarter panel trim: Removal - Refitting) (MR 412, 71A, Body internal trim),
- the rear parcel shelf side trims (see Rear parcel shelf side trim: Removal - Refitting) (MR 412, 71A, Body internal trim),
- -the rear wheel arch trim (see Rear wheel arch trim: Removal - Refitting) (MR 412, 71A, Body internal trim).

II - REMOVAL OPERATION FOR PART CONCERNED

WARNING

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





Disconnect:

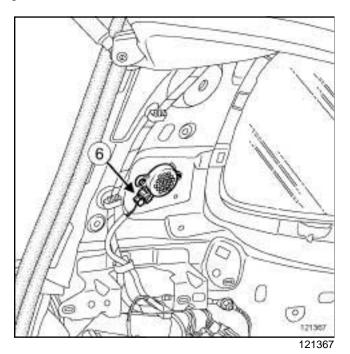
- the parking brake switch connector (2),
- the rear wheel speed sensor wiring connectors (3),
- the passenger compartment wiring / tailgate wiring connectors (4),
- the fuel pump connector (5).

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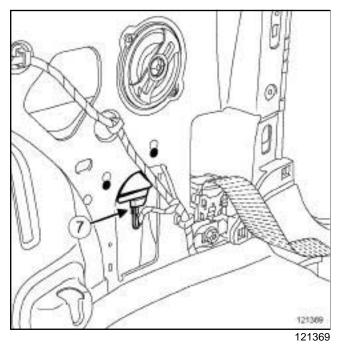
Passenger compartment wiring: Removal - Refitting

RIGHT-HAND DRIVE

REAR PROXIMITY RADAR



Disconnect the connector (6) from the parking distance control buzzer.



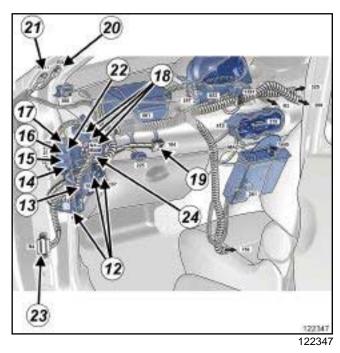
Disconnect the connector (7) from the parking distance control computer.

WITH 4 SPEAKERS, WITHOUT RADIO or RADIO NO. 03

- Disconnect:
 - the left-hand speaker connector (8),
 - the right-hand speaker connector (9).

Remove:

- the rear left-hand earth wiring nut (10),
- the rear right-hand earth wiring nut (11).
- □ Unpick the rear section of the wiring.



- Disconnect:
 - the passenger compartment wiring / front left-hand wiring connectors (12) ,
 - the passenger compartment fuse box connector $({\bf 13})$,
 - the passenger compartment fan assembly relay connector (14) ,
 - the electric window relay connector (15),
 - the dipped headlights relay connector (16),
 - the rear fog light relay connector $({\bf 17})$,
 - the UCH connectors (18),
 - the passenger compartment wiring / heating system wiring connector (19) ,

Passenger compartment wiring: Removal - Refitting

RIGHT-HAND DRIVE

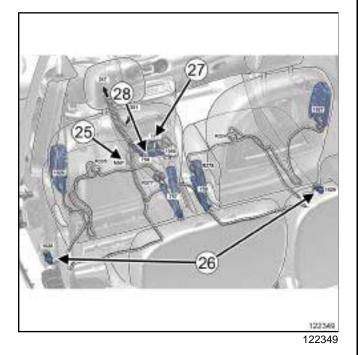
- the passenger compartment wiring / interior lights wiring connector (**20**) .

OPENING ROOF

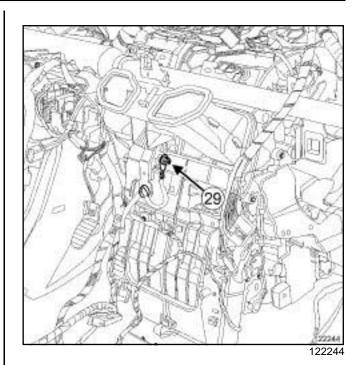
Disconnect the passenger compartment wiring / sunroof wiring connector (21).

FOG LIGHTS

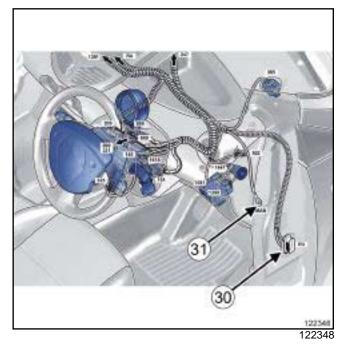
- Disconnect the fog light relay connector (22).
- Disconnect the passenger compartment wiring / passenger's door wiring connector (23).
- Remove:
 - the passenger compartment wiring / passenger's door wiring connector bolts,
 - the dashboard cross member earth wiring nut (24).



- □ Remove the tunnel earth wiring nut (25).
- Disconnect:
 - the side impact sensor connectors (26) ,
 - the gear lever switch connector (27),
 - the airbag computer connector (28) .



Remove the radio earth wiring nut (29) .



- □ Disconnect the passenger compartment wiring / driver's door wiring connector (**30**).
- □ Remove:
 - the passenger compartment wiring / driver's door wiring connector,
 - the earth wiring nut on the right-hand side of the dashboard (31).
- Unclip:
 - the section of wiring on the dashboard,

Passenger compartment wiring: Removal - Refitting

RIGHT-HAND DRIVE

- the section of wiring on the floor.

□ Remove the passenger compartment wiring.

WARNING

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

REFITTING

I - REFITTING PREPARATIONS OPERATION

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

II - REFITTING OPERATION FOR PART CONCERNED

- □ Refit the passenger compartment wiring.
- Clip:
 - the section of wiring onto the floor,
 - the section of wiring onto the dashboard.
- Refit:
 - the earth wiring nut on the right-hand side of the dashboard,
 - the passenger compartment wiring / driver's door wiring connector bolts.
- □ Connect the passenger compartment wiring / driver's door wiring connector.
- □ Refit the radio earth wiring nut.
- Connect:
 - the airbag computer connector,
 - the gear lever switch connector,
 - the side impact sensor connectors.
- Refit:
 - the tunnel earth wiring nut,
 - the dashboard cross member earth wiring nut,
 - the passenger compartment wiring / passenger's door wiring connector bolts.
- □ Connect the passenger compartment wiring / passenger's door wiring connector.

FOG LIGHTS

□ Connect the fog light relay connector.

OPENING ROOF

- Connect the passenger compartment wiring / sunroof wiring connector.
- Connect:
 - the passenger compartment wiring / interior lights wiring connector,
 - the passenger compartment wiring / heating system wiring connector,
 - the UCH connectors,
 - the rear fog light relay connector,
 - the dipped headlights relay connector,
 - the electric window relay connector,
 - the passenger compartment fan assembly relay connector,
 - the passenger compartment fuse box connector,
 - the passenger compartment wiring / front left-hand wiring connectors.
- □ Clip on the rear section of the wiring.
- Refit:
 - the rear right-hand earth wiring nut,
 - the rear left-hand earth wiring nut.

WITH 4 SPEAKERS, WITHOUT RADIO or RADIO NO. 03

Connect:

- the right-hand speaker connector,
- the left-hand speaker connector.

REAR PROXIMITY RADAR

Connect:

- the parking distance control computer connector,

Passenger compartment wiring: Removal - Refitting

RIGHT-HAND DRIVE

- the parking distance control buzzer connector.

Connect:

- the fuel pump connector,
- the rear wheel speed sensor wiring connectors,
- the passenger compartment wiring / tailgate wiring connectors,
- the parking brake switch connector.

III - FINAL OPERATION.

- Refit:
 - the rear wheel arch trim (see **Rear wheel arch trim: Removal Refitting**) (MR 412, 71A, Body internal trim),
 - the rear quarter panel trims (see **Quarter panel trim: Removal Refitting**) (MR 412, 71A, Body internal trim),
 - the rear parcel shelf side trims (see **Rear parcel shelf side trim: Removal Refitting**) (MR 412, 71A, Body internal trim),
 - the floor carpets (see Floor carpet: Removal Refitting) (MR 412, 71A, Body internal trim),
 - the rear panel trims (see **Rear panel lining: Removal - Refitting**) (MR 412, 71A, Body internal trim),
 - the front door sill inner trims (see **Front door sill lining: Removal Refitting**) (MR 412, 71A, Body internal trim),
 - the dashboard (see **Dashboard: Removal Refit-ting**) (MR 412, 57A, Interior equipment),
 - the tweeters (see **86A**, **Radio**, **Tweeter: Removal** - **Refitting**, page **86A-7**),
 - the centre console (see **Centre console: Removal** - **Refitting**) (MR 412, 57A, Interior equipment),
 - the A-pillar trims (see **Windscreen pillar trim: Removal - Refitting**) (MR 412, 71A, Body internal trim),
 - the hazard warning lights control (see 84A, Control - Signals, Hazard warning lights and central door control: Removal - Refitting, page 84A-10)
 - the centre front panel (see **Centre front panel: Removal - Refitting**) (MR 412, 57A, Interior equipment),
 - the radio (see 86A, Radio, Radio: Removal Refitting, page 86A-4),

- the glovebox (see **Glovebox: Removal Refitting**) (MR 412, 57A, Interior equipment),
- the passenger front airbag (see 88C, Air bag and Pretensioners, Passenger's frontal airbag: Removal - Refitting, page 88C-8),
- the instrument panel (see 83A, Instrument panel, Instrument panel: Removal Refitting, page 83A-1),
- the steering column switch assembly (see 84A, Control - Signals, Steering column switch assembly: Removal - Refitting, page 84A-2).

ENGINE REV COUNTER

□ Refit the rev counter (see 83A, Instrument panel, Rev counter: Removal - Refitting, page 83A-3).

Refit:

- the steering wheel (see **Steering wheel: Removal Refitting**) (MR 411, 36A, Steering assembly),
- the driver's front airbag (see 88C, Air bag and Pretensioners, Driver's frontal airbag: Removal -Refitting, page 88C-6),
- the rear bench seatback (see **Rear bench seatback: Removal Refitting**) (MR 412, 76A, Rear seat frames and runners),
- the rear bench seat base (see **Rear bench seat base: Removal Refitting**) (MR 412, 76A, Rear seat frames and runners),
- the front seats (see **Complete front seat: Removal - Refitting**) (MR 412, 75A, Front seat frames and runners),
- the rear bumper (see **Rear bumper: Removal - Refitting**) (MR 412, 55A, Exterior protection),
- the rear lights on the wing (see 81A, Rear lighting, Rear wing light: Removal - Refitting, page 81A-3).
- □ Connect the battery (see 80A, Battery, Battery: Removal - Refitting, page 80A-2).
- Unlock the airbag computer using the Diagnostic tool (see Fault finding - Replacement of components) (MR 413, 88C, Airbags and pretensioners).

Driver's front side door wiring: Removal - Refitting

LEFT-HAND DRIVE

IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see 88A, Wiring harness, Wiring: Precautions for the repair, page 88A-2).

WARNING

To prevent damaging the connectors, consult the disconnection procedures (see **Disconnecting the connectors**) (Technical Note 6015A, 88A, Wiring).

REMOVAL

I - REMOVAL PREPARATION OPERATION

- □ Fully raise the window winder.
- $\hfill\square$ switch off the ignition
- □ Disconnect the battery (see 80A, Battery, Battery: Removal Refitting, page 80A-2).
- Remove the front side door trim (see Front side door trim: Removal - Refitting) (MR 412, 72A, Side opening element trim).

DOOR MIRRORS 02 or DOOR MIRRORS 03 or DOOR MIRRORS 04

Disconnect the electric door mirror connector.

WITH 2 SPEAKERS, WITHOUT RADIO or WITH 4 SPEAKERS, WITHOUT RADIO or RADIO NO. 01 or RADIO NO. 03

- Remove the front speaker (see 86A, Radio, Front speakers: Removal Refitting, page 86A-8).
- Remove the door sealing film (see Door sealing film: Removal Refitting) (MR 412, 65A, Opening element sealing).

ELECTRIC FRONT WINDOW or ONE-TOUCH ELECTRIC PASSENGER WINDOW CONTROL

Remove the front side door electric window winder mechanism (see Front side door electric window mechanism: Removal - Refitting) (MR 412, 51A, Side opening element mechanisms).

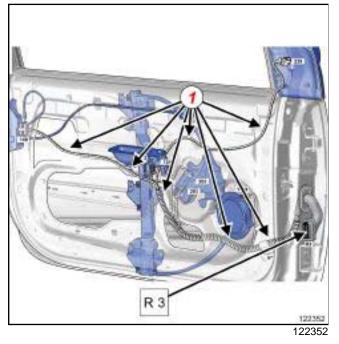
DRIVER'S ELECTRIC DOOR + REMOTE CON-TROL

Remove the front side door lock (see Front side door lock: Removal - Refitting) (MR 412, 51A, Side opening element mechanisms).

Driver's front side door wiring: Removal - Refitting

LEFT-HAND DRIVE

II - OPERATION FOR REMOVAL OF PART CONCERNED



WARNING

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

- □ Disconnect the front side door R3 connector.
- □ Unclip the clips (1) using unclipping pliers.

WARNING

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

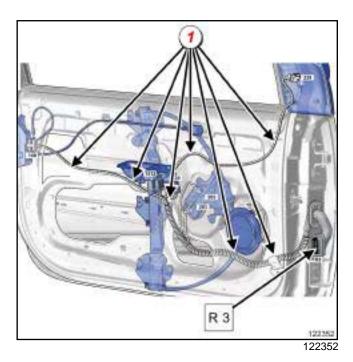
□ Remove the front side door wiring.

REFITTING

I - REFITTING PREPARATIONS OPERATION

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

II - REFITTING OPERATION FOR PART CONCERNED



- □ Refit the front side door wiring.
- □ Attach the clips (1).
- Connect the front side door R3 connector.

III - FINAL OPERATION.

DRIVER'S ELECTRIC DOOR + REMOTE CON-TROL

Refit the front side door lock (see Front side door lock: Removal - Refitting) (MR 412, 51A, Side opening element mechanisms).



ELECTRIC FRONT WINDOW or ONE-TOUCH ELECTRIC PASSENGER WINDOW CONTROL

Refit the front side door electric window winder mechanism (see Front side door electric window mechanism: Removal - Refitting) (MR 412, 51A, Side opening element mechanisms).

Refit the door sealing film (see Door sealing film: Removal - Refitting) (MR 412, 65A, Opening element sealing).

Driver's front side door wiring: Removal - Refitting

LEFT-HAND DRIVE

WITH 2 SPEAKERS, WITHOUT RADIO or WITH 4 SPEAKERS, WITHOUT RADIO or RADIO NO. 01 or RADIO NO. 03
Refit the front speaker (see 86A, Radio, Front speakers: Removal - Refitting, page 86A-8).

DOOR MIRRORS 02 or DOOR MIRRORS 03 or DOOR MIRRORS 04

- □ Connect the electric door mirror connector.
- Refit the front side door trim (see Front side door trim: Removal - Refitting) (MR 412, 72A, Side opening element trim).
- □ Connect the battery (see **80A**, **Battery**, **Battery: Removal Refitting**, page **80A-2**).

Driver's front side door wiring: Removal - Refitting

RIGHT-HAND DRIVE

IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see 88A, Wiring harness, Wiring: Precautions for the repair, page 88A-2).

WARNING

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

REMOVAL

I - REMOVAL PREPARATION OPERATION

- □ Fully raise the window winder.
- □ switch off the ignition
- □ Disconnect the battery (see 80A, Battery, Battery: Removal Refitting, page 80A-2).
- Remove the front side door trim (see Front side door trim: Removal - Refitting) (MR 412, 72A, Side opening element trim).

DOOR MIRRORS 02 or DOOR MIRRORS 03 or DOOR MIRRORS 04

Disconnect the electric door mirror connector.

WITH 2 SPEAKERS, WITHOUT RADIO or WITH 4 SPEAKERS, WITHOUT RADIO or RADIO NO. 01 or RADIO NO. 03

Remove the front speaker (see 86A, Radio, Front speakers: Removal - Refitting, page 86A-8).

Remove the door sealing film (see Door sealing film: Removal - Refitting) (MR 412, 65A, Opening element sealing).

ELECTRIC FRONT WINDOW or ONE-TOUCH ELECTRIC PASSENGER WINDOW CONTROL

Remove the front side door electric window winder mechanism (see Front side door electric window mechanism: Removal - Refitting) (MR 412, 51A, Side opening element mechanisms).

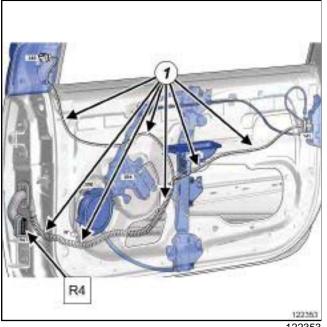
DRIVER'S ELECTRIC DOOR + REMOTE CON-TROL

Remove the front side door lock (see Front side door lock: Removal - Refitting) (MR 412, 51A, Side opening element mechanisms).

Driver's front side door wiring: Removal - Refitting

RIGHT-HAND DRIVE

II - REMOVAL OPERATION FOR PART CONCERNED



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WARNING

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

- Disconnect the R 4 front side door connector.
- □ Unclip the clips (1) using unclipping pliers.

WARNING

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

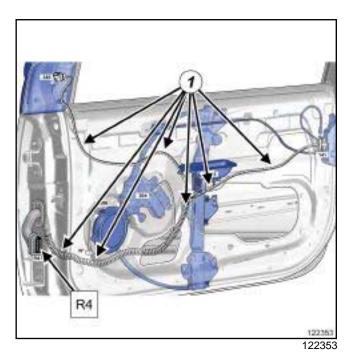
□ Remove the front side door wiring.

REFITTING

I - REFITTING PREPARATIONS OPERATION

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

II - REFITTING OPERATION FOR PART CONCERNED



- □ Refit the front side door wiring.
- \Box Attach the clips (1).
- Connect the R 4 front side door connector.

III - FINAL OPERATION.

DRIVER'S ELECTRIC DOOR + REMOTE CON-TROL

Refit the front side door lock (see Front side door lock: Removal - Refitting) (MR 412, 51A, Side opening element mechanisms).



ELECTRIC FRONT WINDOW or ONE-TOUCH ELECTRIC PASSENGER WINDOW CONTROL

Refit the front side door electric window winder mechanism (see Front side door electric window mechanism: Removal - Refitting) (MR 412, 51A, Side opening element mechanisms).

Refit the door sealing film (see Door sealing film: Removal - Refitting) (MR 412, 65A, Opening element sealing).

Driver's front side door wiring: Removal - Refitting

88A

RIGHT-HAND DRIVE

WITH 2 SPEAKERS, WITHOUT RADIO or WITH 4 SPEAKERS, WITHOUT RADIO or RADIO NO. 01 or RADIO NO. 03 Refit the front speaker (see **86A**, **Radio**, **Front**

A Refit the front speaker (see 86A, Radio, Front speakers: Removal - Refitting, page 86A-8).

DOOR MIRRORS 02 or DOOR MIRRORS 03 or DOOR MIRRORS 04

- □ Connect the electric door mirror connector.
- Refit the front side door trim (see Front side door trim: Removal - Refitting) (MR 412, 72A, Side opening element trim).
- □ Connect the battery (see **80A**, **Battery**, **Battery: Removal Refitting**, page **80A-2**).

Passenger's front side door wiring: Removal - Refitting



IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see 88A, Wiring harness, Wiring: Precautions for the repair, page 88A-2).

REMOVAL

I - REMOVAL PREPARATION OPERATION

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

WARNING

To prevent damaging the connectors, consult the disconnecting procedure (see **Disconnecting the connectors**) (Technical Note 6015A, 88A, Wiring).

Remove the front side door trim (see Front side door trim: Removal - Refitting) (MR 412, 72A, Side opening element trim).

DOOR MIRRORS 02 or DOOR MIRRORS 03 or DOOR MIRRORS 04

Disconnect the electric door mirror connector.

WITH 2 SPEAKERS, WITHOUT RADIO or WITH 4 SPEAKERS, WITHOUT RADIO or RADIO NO. 01 or RADIO NO. 03

- □ Remove the front speaker (see 86A, Radio, Front speakers: Removal Refitting, page 86A-8).
- Remove the door sealing film (see Door sealing film: Removal Refitting) (MR 412, 65A, Opening element sealing).

ELECTRIC FRONT WINDOW or ONE-TOUCH ELECTRIC PASSENGER WINDOW CONTROL

Remove the front side door electric window winder mechanism (see Front side door electric window mechanism: Removal - Refitting) (MR 412, 51A, Side opening element mechanisms).

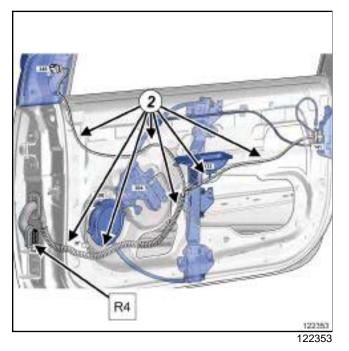
DRIVER'S ELECTRIC DOOR + REMOTE CON-TROL

Remove the front side door lock (see Front side door lock: Removal - Refitting) (MR 412, 51A, Side opening element mechanisms).

Passenger's front side door wiring: Removal - Refitting

LEFT-HAND DRIVE

II - OPERATION FOR REMOVAL OF PART CONCERNED



WARNING

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

- Disconnect the R 4 front side door connector.
- □ Unclip the clips (2) using unclipping pliers.

WARNING

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

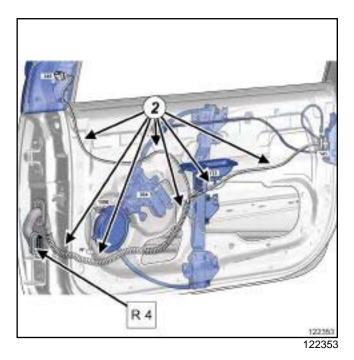
□ Remove the front side door wiring.

REFITTING

I - REFITTING PREPARATIONS OPERATION

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

II - REFITTING OPERATION FOR PART CONCERNED

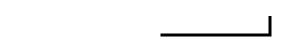


- □ Refit the front side door wiring.
- □ Attach the clips (2).
- Connect the R 4 front side door connector.

III - FINAL OPERATION.

DRIVER'S ELECTRIC DOOR + REMOTE CON-TROL

Refit the front side door lock (see Front side door lock: Removal - Refitting) (MR 412, 51A, Side opening element mechanisms).



ELECTRIC FRONT WINDOW or ONE-TOUCH ELECTRIC PASSENGER WINDOW CONTROL

Refit the front side door electric window winder mechanism (see Front side door electric window mechanism: Removal - Refitting) (MR 412, 51A, Side opening element mechanisms).

Refit the door sealing film (see Door sealing film: Removal - Refitting) (MR 412, 65A, Opening element sealing).

Passenger's front side door wiring: Removal - Refitting



LEFT-HAND DRIVE

WITH 2 SPEAKERS, WITHOUT RADIO or WITH 4 SPEAKERS, WITHOUT RADIO or RADIO NO. 01 or RADIO NO. 03

□ Refit the front speaker (see 86A, Radio, Front speakers: Removal - Refitting, page 86A-8).

DOOR MIRRORS 02 or DOOR MIRRORS 03 or DOOR MIRRORS 04

- □ Connect the electric door mirror connector.
- Refit the front side door trim (see Front side door trim: Removal - Refitting) (MR 412, 72A, Side opening element trim).
- □ Connect the battery (see **80A**, **Battery**, **Battery: Removal Refitting**, page **80A-2**).

Passenger's front side door wiring: Removal - Refitting



RIGHT-HAND DRIVE

IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see 88A, Wiring harness, Wiring: Precautions for the repair, page 88A-2).

WARNING

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

REMOVAL

I - REMOVAL PREPARATION OPERATION

- □ Fully raise the window winder.
- □ Switch off the ignition.
- □ Disconnect the battery (see 80A, Battery, Battery: Removal Refitting, page 80A-2).
- Remove the front side door trim (see Front side door trim: Removal - Refitting) (MR 412, 72A, Side opening element trim).

DOOR MIRRORS 02 or DOOR MIRRORS 03 or DOOR MIRRORS 04

Disconnect the electric door mirror connector.

WITH 2 SPEAKERS, WITHOUT RADIO or WITH 4 SPEAKERS, WITHOUT RADIO or RADIO NO. 01 or RADIO NO. 03

Remove the front speaker (see 86A, Radio, Front speakers: Removal - Refitting, page 86A-8).

Remove the door sealing film (see Door sealing film: Removal - Refitting) (MR 412, 65A, Opening element sealing).

ELECTRIC FRONT WINDOW or ONE-TOUCH ELECTRIC PASSENGER WINDOW CONTROL

Remove the front side door electric window winder mechanism (see Front side door electric window mechanism: Removal - Refitting) (MR 412, 51A, Side opening element mechanisms).

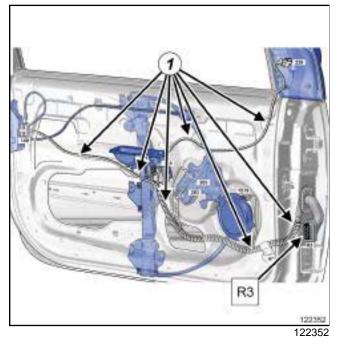
DRIVER'S ELECTRIC DOOR + REMOTE CON-TROL

Remove the front side door lock (see Front side door lock: Removal - Refitting) (MR 412, 51A, Side opening element mechanisms).

Passenger's front side door wiring: Removal - Refitting

RIGHT-HAND DRIVE

II - REMOVAL OPERATION FOR PART CONCERNED



WARNING

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

- □ Disconnect the front side door R3 connector.
- □ Unclip the clips (1) using unclipping pliers.

WARNING

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

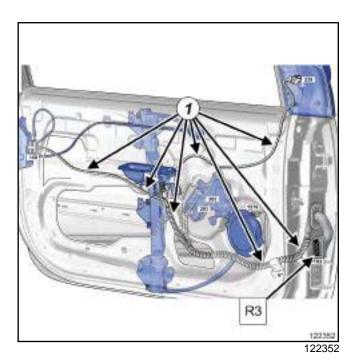
□ Remove the front side door wiring.

REFITTING

I - REFITTING PREPARATIONS OPERATION

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

II - REFITTING OPERATION FOR PART CONCERNED

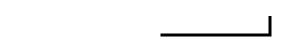


- □ Refit the front side door wiring.
- $\hfill \hfill \hfill$
- □ Connect the front side door R3 connector.

III - FINAL OPERATION.

DRIVER'S ELECTRIC DOOR + REMOTE CON-TROL

Refit the front side door lock (see Front side door lock: Removal - Refitting) (MR 412, 51A, Side opening element mechanisms).



ELECTRIC FRONT WINDOW or ONE-TOUCH ELECTRIC PASSENGER WINDOW CONTROL

Refit the front side door electric window winder mechanism (see Front side door electric window mechanism: Removal - Refitting) (MR 412, 51A, Side opening element mechanisms).

Refit the door sealing film (see Door sealing film: Removal - Refitting) (MR 412, 65A, Opening element sealing).

Passenger's front side door wiring: Removal - Refitting

88A

RIGHT-HAND DRIVE

WITH 2 SPEAKERS, WITHOUT RADIO or WITH 4 SPEAKERS, WITHOUT RADIO or RADIO NO. 01 or RADIO NO. 03

□ Refit the front speaker (see 86A, Radio, Front speakers: Removal - Refitting, page 86A-8).

DOOR MIRRORS 02 or DOOR MIRRORS 03 or DOOR MIRRORS 04

- □ Connect the electric door mirror connector.
- Refit the front side door trim (see Front side door trim: Removal - Refitting) (MR 412, 72A, Side opening element trim).
- □ Connect the battery (see **80A**, **Battery**, **Battery: Removal - Refitting**, page **80A-2**).

WIRING HARNESS Rear bumper wiring: Removal - Refitting



IMPORTANT

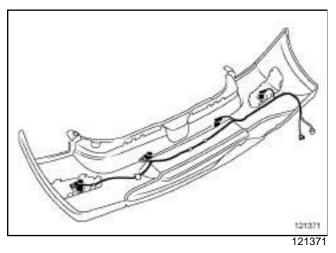
Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see 88A, Wiring harness, Wiring: Precautions for the repair, page 88A-2).

REMOVAL

I - REMOVAL PREPARATION OPERATION

- □ Switch off the ignition.
- □ Disconnect the battery (see 80A, Battery, Battery: Removal Refitting, page 80A-2).
- Remove the rear bumper (see Rear bumper: Removal - Refitting) (MR 412, 55A, Exterior protection).

II - OPERATION FOR REMOVAL OF PART CONCERNED

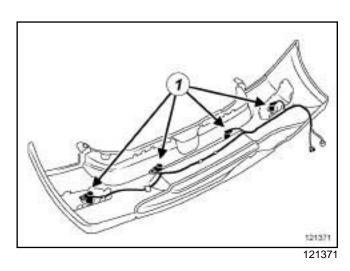


WARNING

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

Disconnect the license plate light connectors.

REAR PROXIMITY RADAR



Disconnect the rear proximity radar connectors (1).

WARNING

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

□ Remove the rear bumper wiring.

REFITTING

I - REFITTING PREPARATIONS OPERATION

If replacing with more wiring, lock the unused connectors (see Connector: Sealing and immobilisation) (Technical Note 6015A, 88A, Wiring).

II - REFITTING OPERATION FOR PART CONCERNED

□ Refit the rear bumper wiring.

REAR PROXIMITY RADAR

□ Connect the rear proximity radar connectors.

Connect the number plate light connectors.



III - FINAL OPERATION.

- Refit the rear bumper (see Rear bumper: Removal
 Refitting) (MR 412, 55A, Exterior protection).
- □ Connect the battery (see 80A, Battery, Battery: Removal - Refitting, page 80A-2).

AIR BAG AND PRETENSIONERS Airbag and pretensioners: Precautions for the repair



Equipment required

Diagnostic tool

I - PRECAUTIONS FOR REPAIR

IMPORTANT

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

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

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

IMPORTANT

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

IMPORTANT

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

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

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

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

IMPORTANT

To prevent the pyrotechnic components from being permanently deactivated or triggered (airbags or pretensioners), check the airbag computer using the **Diagnostic tool**. The pyrotechnic systems (pretensioners and airbags) must be checked using the **Diagnostic tool** :

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

II - TRIGGERING OF THE SAFETY SYSTEMS

IMPORTANT

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

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

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

IMPORTANT

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

It is essential to destroy pretensioners or airbags before scrapping a vehicle or a part only (see **88C**, **Air bag and Pretensioners**, **Airbags and pretensioners: Recycling - Destruction**, page **88C-2**).

III - DURABILITY OF THE PYROTECHNIC COMPONENTS

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

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



Special tooling required		
Ele. 1287	Tool for destroying airbags and pretensioners.	
Ele. 1287-02	Kit of 2 adapters for the air- bag and pretensioner des- truction tool.	
Ele. 1812	Kit of 2 adapters for the air- bag and pretensioner des- truction tool.	

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-1).

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.



- Always use the tool (Ele. 1287) and three kits of adapters (Ele. 1287-02), and (Ele. 1812).
- 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.

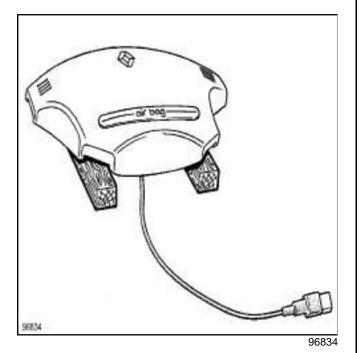
Note:

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

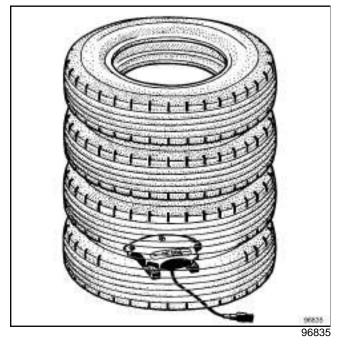
Prepare the adapter corresponding to the airbag to be destroyed.



- Connect:
 - the adapter to the destruction tool (Ele. 1287),
 - the adapter to the airbag.



□ Put the airbag on two wooden blocks.



- 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 noone 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 noone 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).

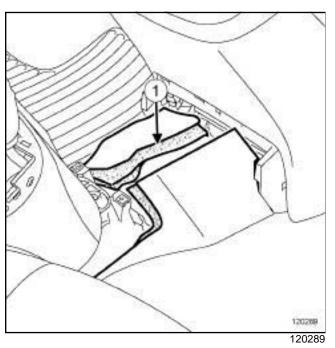
AIR BAG AND PRETENSIONERS Airbag computer: Removal - Refitting



Equipment required	
Diagnostic tool	
Tightening torques 灾	
airbag computer nuts	8 Nm

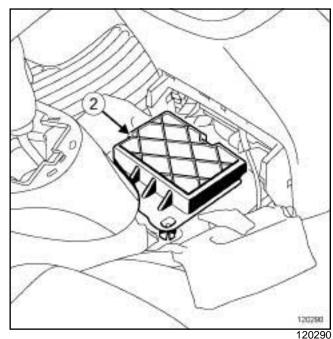
REMOVAL

- I REMOVAL PREPARATION OPERATION
- Lock the airbag computer using the Diagnostic tool (see MR 413 Fault finding, 88C, Airbags and seat belt pretensioners, Fault finding - Replacement of components).
- □ Disconnect the battery (see 80A, Battery, Battery: Removal Refitting, page 80A-2).
- Remove the centre console ((see Centre console: Removal - Refitting)).

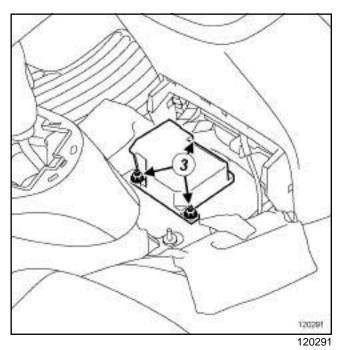


Cut the carpet (1) and soundproofing using a sectioning tool.

II - OPERATION FOR REMOVAL OF PART CONCERNED



Remove the protective housing (2) from the airbag computer.



- □ Remove the airbag computer nuts (3).
- □ Extract the airbag computer.
- $\hfill\square$ Disconnect the airbag computer connector.
- $\hfill\square$ Remove the airbag computer.



REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- Refit:
 - the airbag computer,
 - the computer nuts.
- □ Torque tighten the airbag computer nuts (8 Nm).
- □ Connect the airbag computer connector.
- Lock the airbag computer connector.
- □ Replace the airbag computer's protective housing with a new one.

II - FINAL OPERATION.

- Pull down the carpet.
- Attach the carpet using clips (part no. 77 01 047 751).
- Refit the centre console ((see Centre console: Removal - Refitting)).
- □ Connect the battery (see 80A, Battery, Battery: Removal - Refitting, page 80A-2).
- If the airbag computer has been replaced, carry out the necessary operations using the Diagnostic tool (see MR 413 Fault finding, 88C, Airbags and seat belt pretensioners, Fault finding - Replacement of components).

IMPORTANT

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

Unlock the airbag computer using the Diagnostic tool (see MR 413 Fault finding, 88C, Airbags and pretensioners, Fault finding - Replacement of components).



Equipment required

Diagnostic tool

IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see **88C**, **Air bag and Pretensioners**, **Airbag and pretensioners: Precautions for the repair**, page **88C-1**).

REMOVAL

I - REMOVAL PREPARATION OPERATION

IMPORTANT

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

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

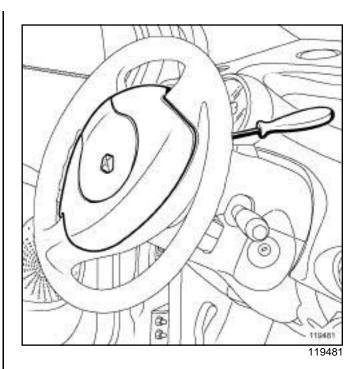
IMPORTANT

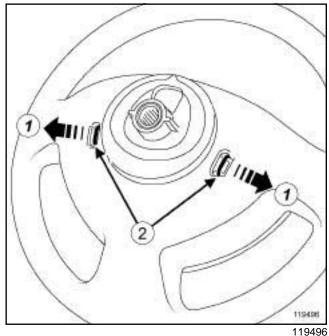
Never handle the pyrotechnic systems (pretensioners or airbags) near to a source of heat or naked flame - they may be triggered.

- Lock the airbag computer using the Diagnostic tool (see MR 413 Fault finding, 88C, Airbags and seat belt pretensioners, Fault finding - Replacement of components).
- □ Disconnect the battery (see 80A, Battery, Battery: Removal Refitting, page 80A-2).

II - OPERATION FOR REMOVAL OF PART CONCERNED

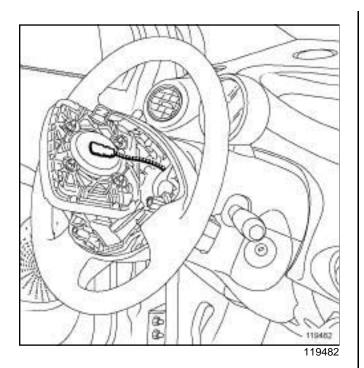
□ Turn the steering wheel one half-turn.

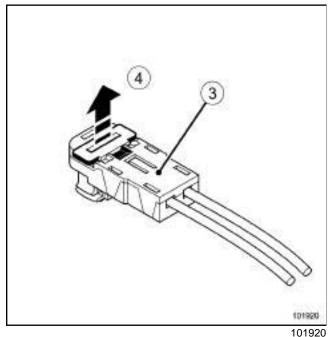




Remove the driver's front airbag by opening (1) the clips (2) using a flat-blade screwdriver.







- □ Unlock the driver's front airbag connector (3) at (4).
- Disconnect the driver's front airbag connector.
- □ 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 PREPARATIONS 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-1).

II - REFITTING OPERATION FOR PART CONCERNED

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

III - FINAL OPERATION.

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

IMPORTANT

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

Unlock the airbag computer using the Diagnostic tool (see MR 413 Fault finding, 88C, Airbags and seat belt pretensioners, Fault finding - Replacement of components).

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-2).

AIR BAG AND PRETENSIONERS Passenger's frontal airbag: Removal - Refitting



Equipment required

Diagnostic tool

Tightening torques \bigtriangledown			
passenger front airbag nuts	21 Nm		
nuts of the tie rod side on the bulkhead side	8 Nm		

IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see 88C, Air bag and Pretensioners, Airbag and pretensioners: Precautions for the repair, page 88C-1).

REMOVAL

I - REMOVAL PREPARATION OPERATION

IMPORTANT

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

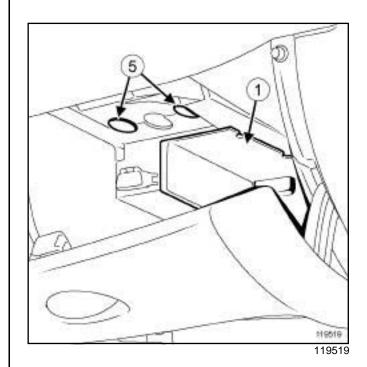
When this function is activated, all the trigger lines are inhibited and the airbag warning light on the instrument panel lights up continuously (ignition on).

IMPORTANT

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

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

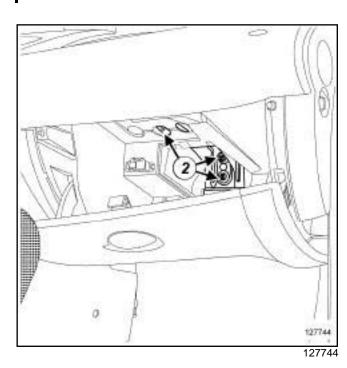
II - OPERATION FOR REMOVAL OF PART CONCERNED



Open the dashboard glovebox.

K9K - D4F, and 780

□ Unclip the access flap (1) to the passenger's front airbag connector.

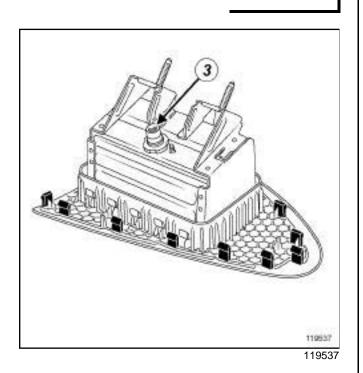


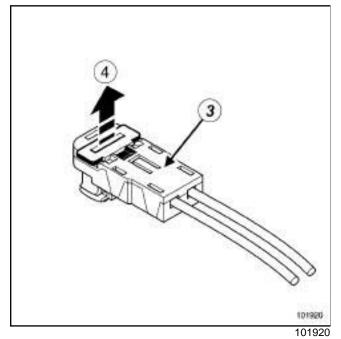
□ Remove:

- the nuts (2) of the tie rod between the bulkhead and the dashboard cross member,

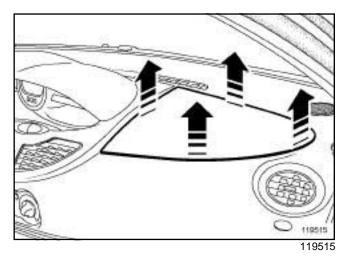


- the tie rod between the bulkhead and the dashboard cross member.





- □ Mark the routing of the wiring at the level of the passenger's front airbag.
- □ Unclip the safety cover (4) from the passenger's front airbag connector (3).
- □ Disconnect the connector (3) from the passenger frontal airbag.
- □ Remove the passenger's front airbag nuts (5) with a long socket.



Unclip the passenger's front airbag by pushing it upwards through the access flap of the storage compartment (1).

Note:

Do not unclip the passenger's front airbag with the unclipping tool to avoid marking the dashboard or the cover of the passenger's front airbag.

□ Remove the passenger frontal 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

□ Always replace the passenger's airbag nuts.

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-1).

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

□ Fit the passenger front airbag into its housing.

Note:

Check that the passenger's front airbag is braced against the dashboard cross member.

- □ Refit new nuts of the passenger's front airbag.
- Torque tighten the passenger front airbag nuts (21 Nm).
- □ Clip the passenger front airbag onto the dashboard.
- □ Connect the passenger front airbag connector.
- □ Lock the passenger front airbag connector.
- □ Fit the wiring in the position that was marked when dismantling the passenger's front airbag.

WARNING

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

K9K – D4F, and 780

- Refit the tie rod between the bulkhead and the dashboard cross member.
- □ Torque tighten the **nuts of the tie rod side on the bulkhead side (8 Nm)**.
- □ Clip the flap of the dashboard glovebox.

III - FINAL OPERATION.

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

IMPORTANT

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

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

IMPORTANT

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

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

(see 88C, Air bag and Pretensioners, Airbags and pretensioners: Recycling - Destruction, page 88C-2).



Equipment required

Diagnostic tool

The front chest airbag is fixed to the lower section of the seatback of each front seat on the door side.

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

IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see 88C, Air bag and Pretensioners, Airbag and pretensioners: Precautions for the repair, page 88C-1).

REMOVAL

I - REMOVAL PREPARATION OPERATION

Position the vehicle on a two-post lift (see Vehicle: Towing and lifting) (MR 411, 02A, Lifting equipment).

IMPORTANT

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

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

IMPORTANT

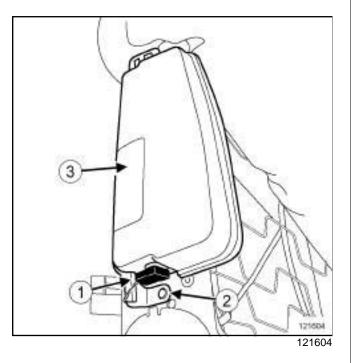
Never handle the pyrotechnic systems (pretensioners or airbags) near to a source of heat or naked flame - they may be triggered.

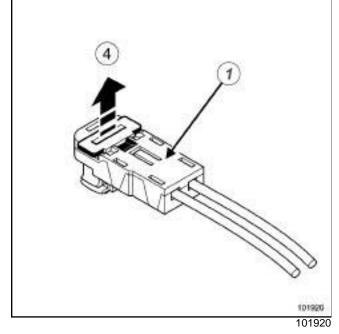
- Lock the airbag computer using the Diagnostic tool (see Fault finding - Replacement of components) (MR 413, 88C, Airbags and pretensioners).
- □ Disconnect the battery (see 80A, Battery, Battery: Removal Refitting, page 80A-2).
- Remove:
 - the complete front seat (see **Complete front seat: Removal Refitting**) (MR 412, 75A, Front seat frames and runners),

- the front seat seatback trim (see **Front seatback trim: Removal - Refitting**) (MR 412, 77A, Front seat trim).



II - OPERATION FOR REMOVAL OF PART CONCERNED





- □ Mark the routing of the side airbag wiring.
- □ Unlock the connector (1) from the front side chest-level airbag at (4).
- Disconnect the connector (1) from the front side chest-level airbag.
- Remove:
 - the rivet (2) from the front side chest-level airbag (see Riveted connection: Description) (MR 400, 40A, General information, Riveted connection: Description),

- the front side chest-level airbag (3) lifting it by 15mm then moving it away from the seat.

REFITTING

I - REFITTING PREPARATIONS OPERATION

- □ Always replace:
 - the front side chest-level airbag,
 - the front side chest-level airbag rivet,

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-1).

II - REFITTING OPERATION FOR PART CONCERNED

Refit:

- a new front side chest-level airbag,
- a new rivet (see **Riveted connection: Description**) (MR 400, 40A, General information, Riveted connection: Description).
- □ Fit the wiring in the position marked during the removal operation.
- □ Connect the front side chest-level airbag connector.
- Lock the front side chest-level airbag connector.

III - FINAL OPERATION.

- Refit:
 - the front seat seatback trim (see **Front seatback trim: Removal Refitting**) (MR 412, 77A, Front seat trim),
 - the complete front seat (see **Complete front seat: Removal Refitting**) (MR 412, 75A, Front seat frames and runners).



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

IMPORTANT

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

Unlock the airbag computer using the Diagnostic tool (see Fault finding - Replacement of components) (MR 413, 88C, Airbags and pretensioners).

IMPORTANT

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

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

(see 88C, Air bag and Pretensioners, Airbags and pretensioners: Recycling - Destruction, page 88C-2).



Equipment required

Diagnostic tool

curtain airbag bolt

Tightening torques 灾

8 Nm

The side curtain airbag is mounted behind the headlining.

The airbag detaches the headlining when it inflates.

IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see 88C, Air bag and Pretensioners, Airbag and pretensioners: Precautions for the repair, page 88C-1).

REMOVAL

I - REMOVAL PREPARATION OPERATION

IMPORTANT

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

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

IMPORTANT

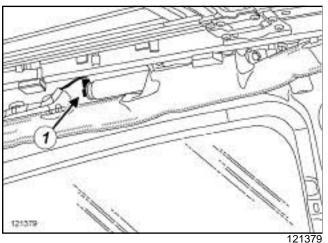
Never handle the pyrotechnic systems (pretensioners or airbags) near to a source of heat or naked flame - they may be triggered.

- Lock the airbag computer using the Diagnostic tool (see Fault finding - Replacement of components) (MR 413, 88C, Airbags and pretensioners).
- □ Disconnect the battery (see 80A, Battery, Battery: Removal Refitting, page 80A-2).
- Remove:
 - the front seat belt upper bolt (see **Front seat belt: Removal Refitting**) (MR 412, 59A, Safety equipment),

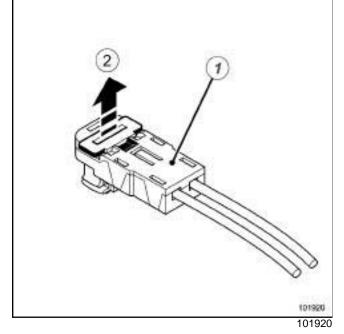
- the rear seat belt upper bolt (see **Rear seat belt: Removal Refitting**) (MR 412, 59A, Safety equipment),
- the sun visors (see **Sun visor: Removal Refit-ting**) (MR 412, 57A, Interior equipment),
- the interior rear-view mirror covers (see Interior rear-view mirror: Removal Refitting) (MR 412, 57A, Interior equipment),
- the A-pillar trims (see Windscreen pillar trim: Removal Refitting) (MR 412, 71A, Body internal trim),
- the rear parcel shelf side trims (see Rear parcel shelf side trim: Removal Refitting) (MR 412, 71A, Body internal trim),
- the rear panel trims (see Rear panel lining: Removal Refitting) (MR 412, 71A, Body internal trim),
- the rear quarter panel trims (see **Quarter panel trim: Removal Refitting**) (MR 412, 71A, Body internal trim),
- the B-pillar upper trims (see **B-pillar upper trim: Removal Refitting**) (MR 412, 71A, Body internal trim),
- the headlining (see **Headlining: Removal Refitting**) (MR 412, 71A, Body internal trim).



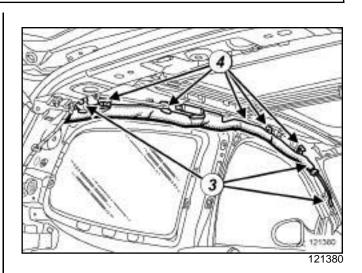
II - OPERATION FOR REMOVAL OF PART CONCERNED

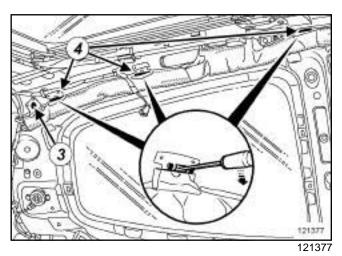


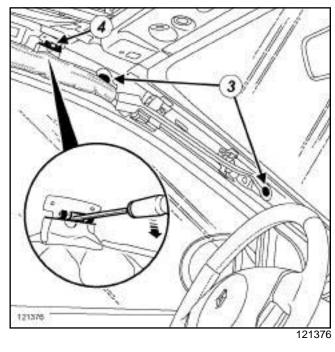
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Unlock the connector (1) from the curtain side airbag at (2).



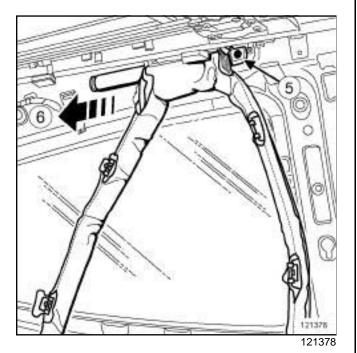




- □ Remove:
 - the plastic clips (3) with a pair of unclipping pliers,



- the curtain side airbag retaining clips (4) using a small flat-blade screwdriver.



Remove:

- the curtain side airbag bolt (5),

- the curtain side airbag at $({\bf 6})$.

REFITTING

I - REFITTING PREPARATION OPERATION

□ Always replace:

- the curtain side airbag,
- the curtain side airbag bolt,
- the front seat belt upper bolt.

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-1).

II - REFITTING OPERATION FOR PART CONCERNED

Refit:

- the new curtain side airbag,

- the new curtain side airbag bolt.
- Tighten to torque the curtain airbag bolt (8 Nm).
- Refit:
 - the curtain side airbag retaining clips,
 - the plastic clips.
- Connect the curtain airbag connector.

III - FINAL OPERATION.

- Refit:
 - the headlining (see **Headlining: Removal Refitting**) (MR 412, 71A, Body internal trim),
 - the B-pillar upper trims (see **B-pillar upper trim: Removal Refitting**) (MR 412, 71A, Body internal trim),
 - the rear quarter panel trims (see **Quarter panel trim: Removal Refitting**) (MR 412, 71A, Body internal trim),
 - the rear panel trims (see Rear panel lining: Removal Refitting) (MR 412, 71A, Body internal trim),
 - the rear parcel shelf side trims (see Rear parcel shelf side trim: Removal Refitting) (MR 412, 71A, Body internal trim),
 - the A-pillar trims (see Windscreen pillar trim: Removal Refitting) (MR 412, 71A, Body internal trim),
 - the interior rear-view mirror covers (see Interior rear-view mirror: Removal Refitting) (MR 412, 57A, Interior equipment),
 - the sun visors (see **Sun visor: Removal Refit-ting**) (MR 412, 57A, Interior equipment),
 - the rear seat belt upper bolt (see **Rear seat belt: Removal Refitting**) (MR 412, 59A, Safety equipment),
 - the front seat belt upper bolt (see **Front seat belt: Removal Refitting**) (MR 412, 59A, Safety equipment).
- Connect the battery (see 80A, Battery, Battery: Removal Refitting, page 80A-2).

IMPORTANT

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



Unlock the airbag computer using the Diagnostic tool (see Fault finding - Replacement of components) (MR 413, 88C, Airbags and pretensioners).

IMPORTANT

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

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

(see 88C, Air bag and Pretensioners, Airbags and pretensioners: Recycling - Destruction, page 88C-2).



Equipment required

Diagnostic tool

Tightening torques 🖓

8 Nm

IMPORTANT

impact sensor bolt

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see 88C, Air bag and Pretensioners, Airbag and pretensioners: Precautions for the repair, page 88C-1).

REMOVAL

I - REMOVAL PREPARATION OPERATION

Position the vehicle on a two-post lift (see Vehicle: Towing and lifting) (MR 411, 02A, Lifting equipment).

IMPORTANT

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

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

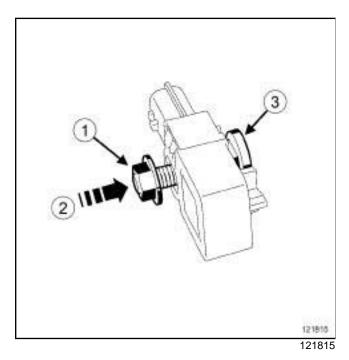
- Lock the airbag computer using the Diagnostic tool (see Fault finding - Replacement of components) (MR 413, 88C, Airbags and seat belt pretensioners).
- □ Disconnect the battery (see 80A, Battery, Battery: Removal Refitting, page 80A-2).
- Remove the complete front seat (see Complete front seat: Removal Refitting) (MR 412, 75A, Front seat frames and runners).

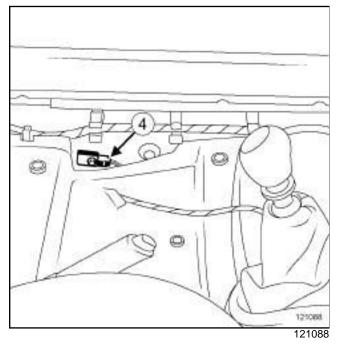
AIR BAG AND PRETENSIONERS Side impact sensor: Removal - Refitting



FRONT SIDE AIRBAG, and REAR AIRBAG 01

II - OPERATION FOR REMOVAL OF PART CONCERNED





Note:

It is not necessary to remove the front door sill lining.

Disconnect the impact sensor connector (4).

Note:

The impact sensor bolt cage is not fixed to the body

Do not remove the impact sensor bolt.

- □ Undo the impact sensor bolt by six turns (1).
- Press at (2) on the impact sensor bolt (1), in order to release the bolt cage (3).
- Slide the impact sensor towards the rear of the vehicle.
- Remove the impact sensor with the bolt and the bolt cage.

REFITTING

I - REFITTING PREPARATIONS OPERATION

□ Always replace the side impact sensors.

II - REFITTING OPERATION FOR PART CONCERNED

- □ Refit the new impact sensor.
- Slide the impact sensor towards the front of the vehicle.
- □ Torque tighten the impact sensor bolt (8 Nm).
- □ Connect the impact sensor connector.

III - FINAL OPERATION.

- Refit the complete front seat (see Complete front seat: Removal - Refitting) (MR 412, 75A, Front seat frames and runners).
- □ Connect the battery (see 80A, Battery, Battery: Removal - Refitting, page 80A-2).

IMPORTANT

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



Unlock the airbag computer using the Diagnostic tool (see Fault finding - Replacement of components) (MR 413, 88C, Airbags and seat belt pretensioners).

Note:

These sensors do not require programming with the **Diagnostic tool**.

AIR BAG AND PRETENSIONERS Front buckle pretensioner: Removal - Refitting



Equipment required

Diagnostic tool

Tightening torques \bigtriangledown		
front buckle ner bolt	pretensio-	35 Nm

IMPORTANT

Consult the safety and cleanliness advice and operation recommendations before carrying out any repair (see 88C, Air bag and Pretensioners, Airbag and pretensioners: Precautions for the repair, page 88C-1).

REMOVAL

I - REMOVAL PREPARATION OPERATION

Position the vehicle on a two-post lift (see Vehicle: Towing and lifting) (MR 411, 02A, Lifting equipment).

IMPORTANT

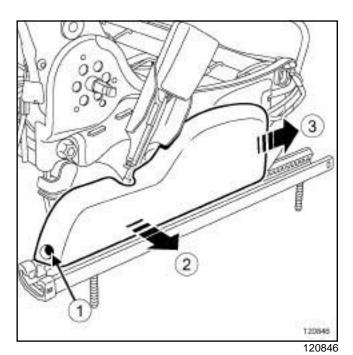
To prevent any accidental triggering whilst working on or near a pyrotechnic component (airbags or pretensioners), lock the airbag computer using the **Diagnostic tool**.

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

IMPORTANT

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

- □ Lock the airbag computer using the **Diagnostic tool** (see **Fault finding - Replacement of components**) (MR 413, 88C, Airbags and pretensioners).
- □ Disconnect the battery (see 80A, Battery, Battery: Removal Refitting, page 80A-2).
- Remove the complete front seat (see Complete front seat: Removal Refitting) (MR 412, 75A, Front seat frames and runners).

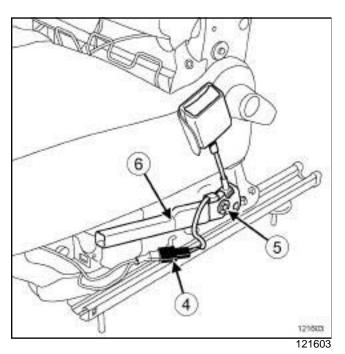


Remove:

- the front seat casing bolt (1),
- the front seat casing at $(\mathbf{2})$ and $(\mathbf{3})$.



II - OPERATION FOR REMOVAL OF PART CONCERNED



WARNING

To prevent any malfunctions, mark the cable routing and how to connect the connectors.

- Disconnect the front buckle pretensioner connector
 (4).
- Remove:
 - the front buckle pretensioner bolt $(\mathbf{5})$,
 - the front buckle pretensioner (6) .

REFITTING

I - REFITTING PREPARATION OPERATION

□ Always replace the pretensioner bolt.

IMPORTANT

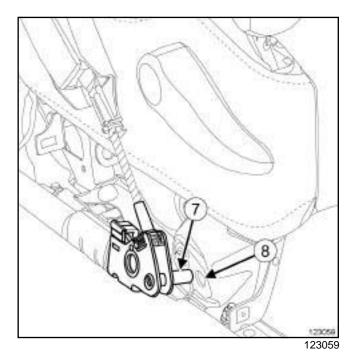
After a seat belt pyrotechnic component is triggered, it is essential to replace certain parts.

(see 88C, Air bag and Pretensioners, Airbag and pretensioners: Precautions for the repair, page 88C-1).

Note:

Before refitting the new bolt, clean the thread hole on the seat frame to remove any threadlock residue from the old bolt.

II - REFITTING OPERATION FOR PART CONCERNED



- Refit:
 - the front buckle pretensioner ensuring the centring device (7) is correctly positioned in the hole (8) on the seat frame.
 - the new front buckle pretensioner bolt.
- Torque tighten the front buckle pretensioner bolt (35 Nm).
- Connect the front buckle pretensioner connector.
- □ Fit the wiring in the position marked during the removal operation.

III - FINAL OPERATION.

- Refit:
 - the front seat casing,
 - the front seat casing bolt,
 - the complete front seat (see Complete front seat: Removal - Refitting) (MR 412, 75A, Front seat frames and runners).



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

IMPORTANT

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

Unlock the airbag computer using the Diagnostic tool (see Fault finding - Replacement of components) (MR 413, 88C, Airbags and pretensioners).

IMPORTANT

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

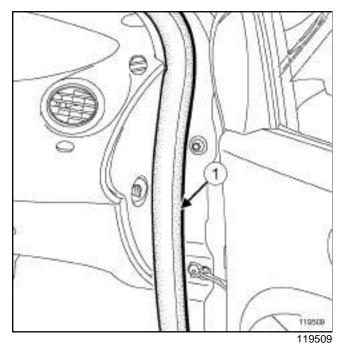
It is essential to destroy pretensioners or airbags before scrapping a vehicle or a part only.

(see 88C, Air bag and Pretensioners, Airbags and pretensioners: Recycling - Destruction, page 88C-2).

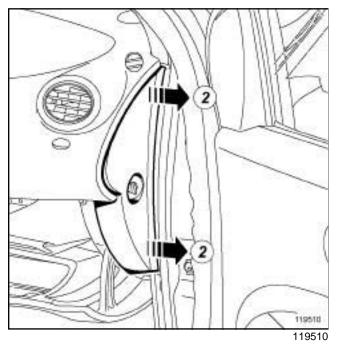


REMOVAL

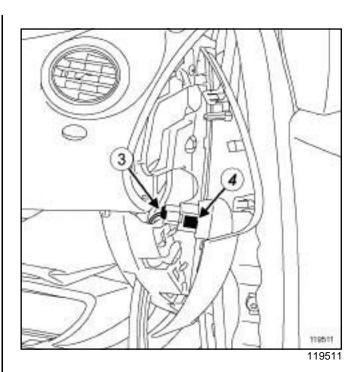
OPERATION FOR REMOVAL OF PART CONCERNED

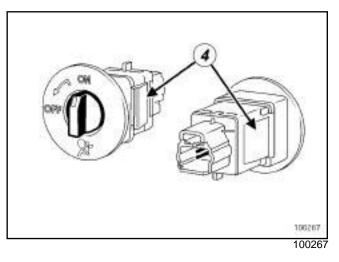


□ Remove the seal (1) from the front right-hand door.



□ Unclip the right-hand side panel (2).





- $\hfill\square$ Disconnect the inhibitor switch connector $(\mathbf{3})$.
- $\hfill\square$ Unclip the inhibitor switch from the panel at (4) .
- □ Remove the inhibitor switch.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- □ Refit the inhibitor switch onto the side panel.
- □ Connect inhibitor switch connector.
- □ Refit the right-hand side panel.
- □ Fit the front right-hand door seal.



II - FINAL OPERATION.

Check:

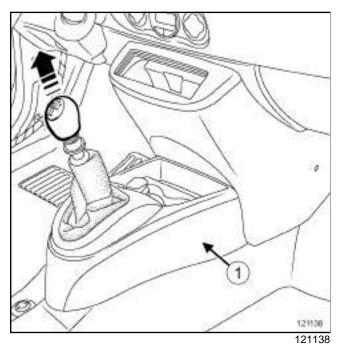
- the operation of the switch,

- the "airbag off" warning light on the instrument panel.



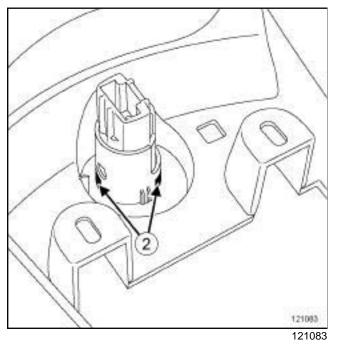
REMOVAL

I - REMOVAL PREPARATION OPERATION



Remove the centre console (1) (see Centre console: Removal - Refitting) (MR 412, 57A, Interior equipment).

II - OPERATION FOR REMOVAL OF PART CONCERNED



- $\hfill\square$ Squeeze the electrical accessory socket clips (2) .
- □ Extract the electrical accessory socket.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- Clip the electrical accessory socket onto the centre console.
- **II FINAL OPERATION.**
- Refit the centre console (see Centre console: Removal - Refitting) (MR 412, 57A, Interior equipment).