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## **5 Mechanisms and Accessories**

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***BB0A - BB0C - BB0D - BB0E - CB0A - CB0C - CB0D - CB0E***

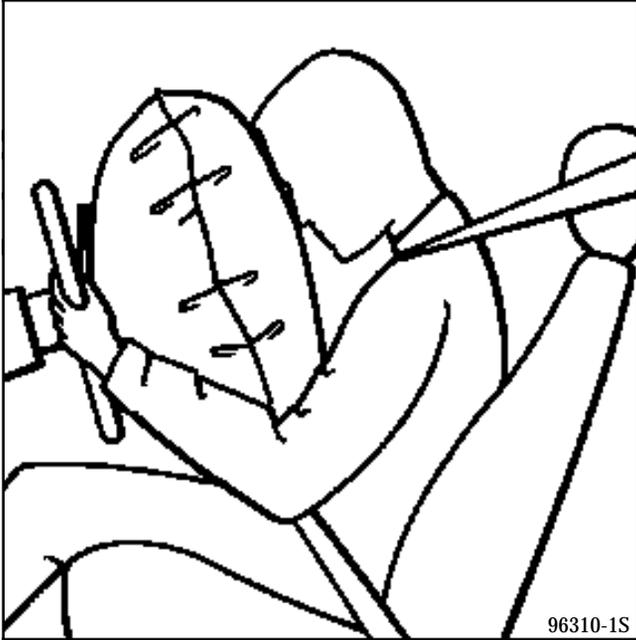


# Mechanisms and Accessories

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AIR BAG AND PRETENSIONERS



**IMPORTANT :** All operations on the **Air bag and pretensioner systems** must be performed by qualified, appropriately trained personnel only. The **AIR BAG** manual section **88** **MUST** be consulted.

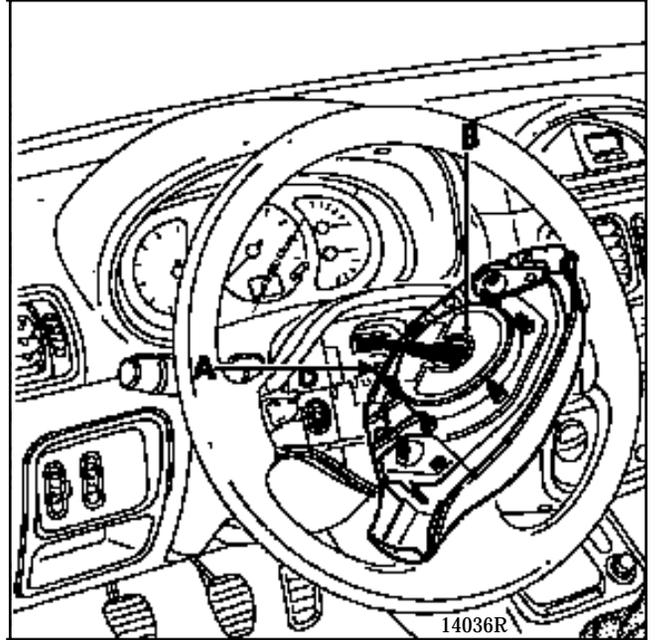
**IMPORTANT:** when working on the vehicle, take care not to cause impacts under the body, without having removed the pretensioners fuse and having waited 5 minutes for the reserve capacity to discharge. Refer to section **88** - "Fuse allocation".

**AIR BAG LABEL KIT**

When a windscreen is replaced the labels warning that an air bag is fitted must be replaced.

If the vehicle is fitted with a passenger air bag, systematically replace the adhesive warning label on the side of the dashboard when it is removed.

A label kit containing all these labels is available from the Parts Department under Part Number 77 01 205 442.



Each time the steering wheel is removed, the steering wheel bolt (A) **MUST** be renewed. Refer to sections **88** and **57-D**.

**IMPORTANT :** Each time the steering wheel is removed, the Air bag connector (B) **MUST** be disconnected. The Air bag has a connector which short circuits when it is disconnected to avoid any incorrect triggering.

**HEAT SHIELDS**

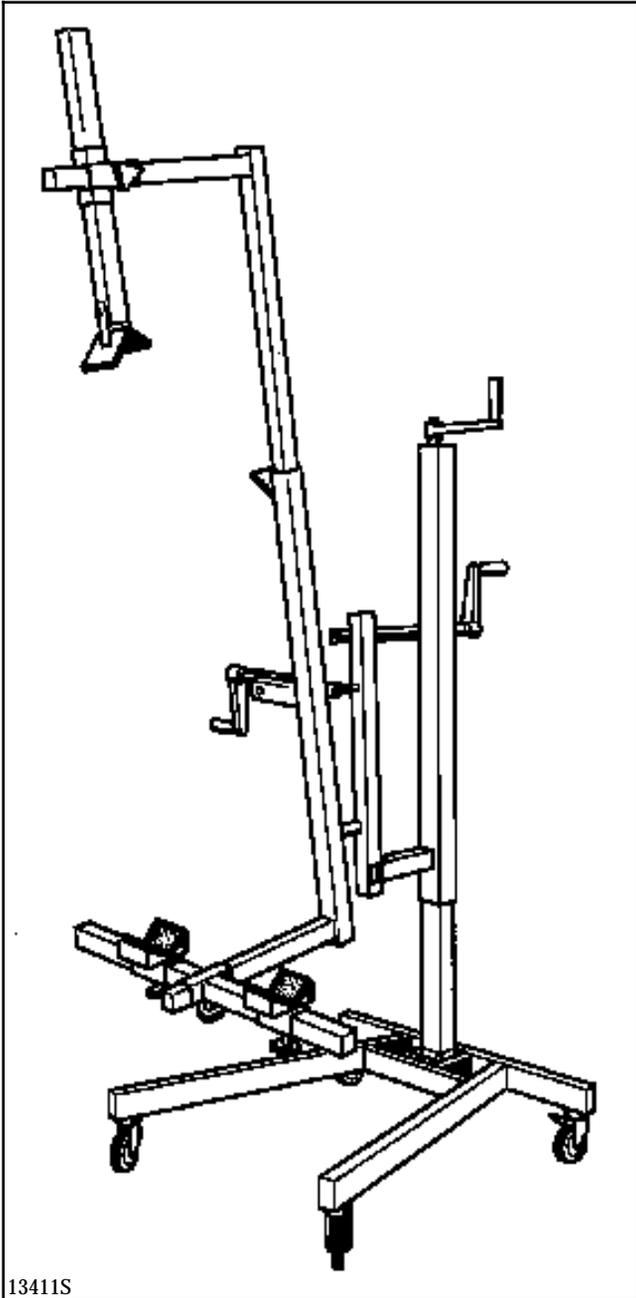
These **MUST** be refitted, whether by mechanical fitters or bodywork fitters.

**TIGHTENING TORQUES**

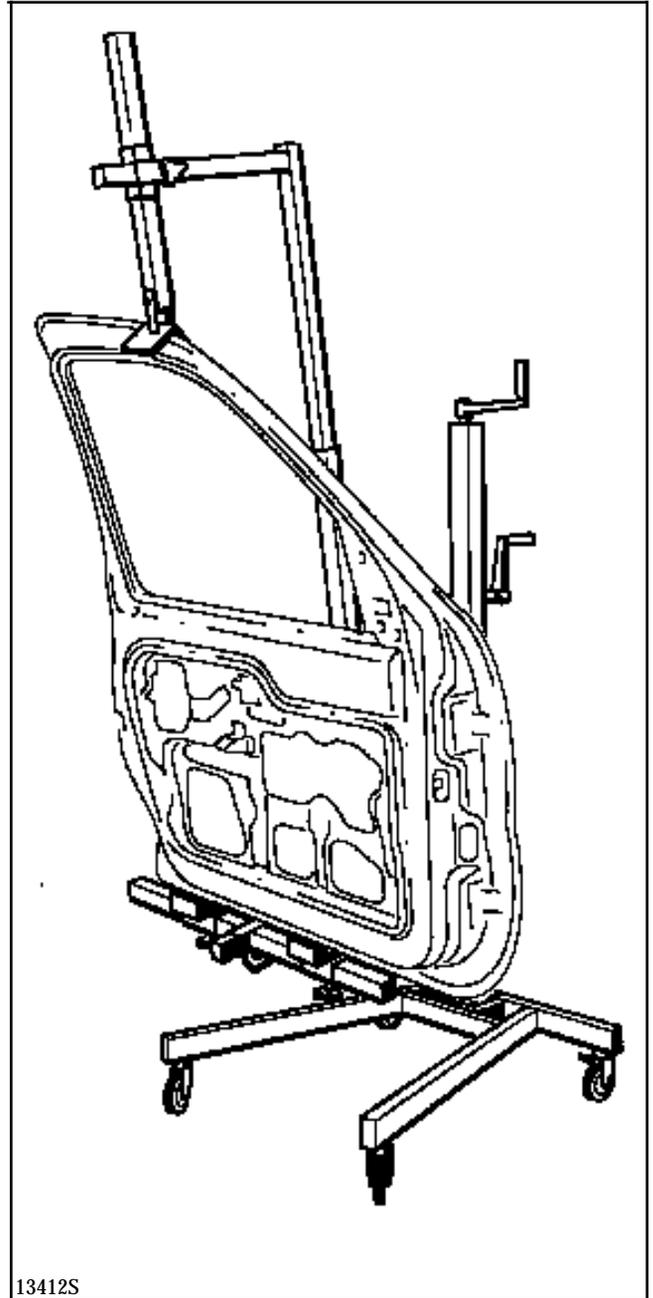
All recommended tightening torques **MUST** be observed.

**PRODUCTS**

Read all instructions for using products with care and observe the safety instructions by using the appropriate equipment (gloves, mask etc.).



13411S



13412S

**DOOR SUPPORT TOOLING**

This equipment is used to assist the mechanic during operations to remove or fit opening or sliding doors.

It is especially designed for the opening elements of utility vehicles and supports the weight of a door with lining, thus removing the need for a second person to assist.

Renault approval number : **661 000**.

## TOOLING FOR REMOVING / REFITTING BONDED WINDOWS

To determine the recommended products, application equipment and application methods, refer to Technical Note 371A "General method for bonding windows".



90989S

## RAPID SINGLE POT BONDING KIT FOR WINDOWS

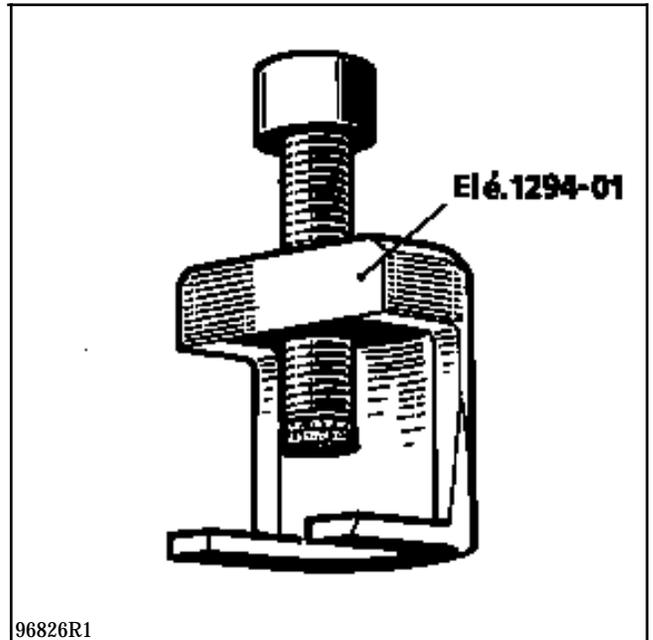


14341

## MULTIPURPOSE GUN



14342



96826R1

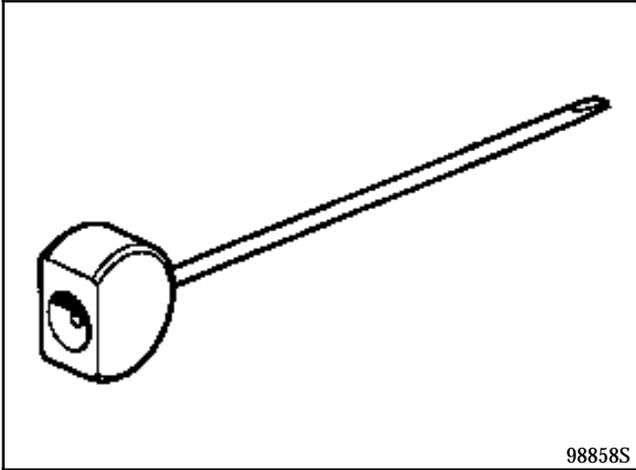
### Removal

Set the wipers in the park position.

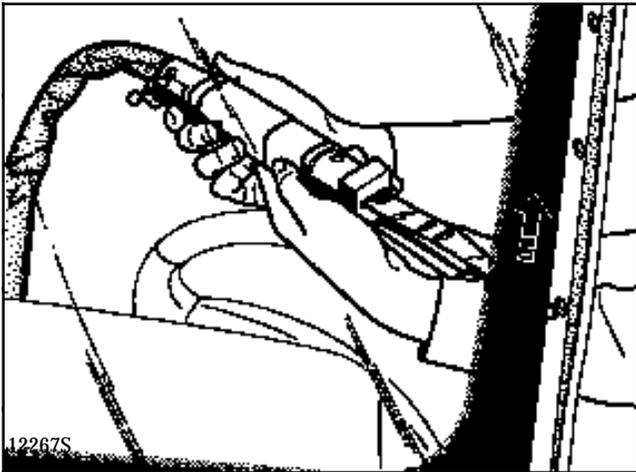
Open the bonnet.

Remove the covers from the wiper arm nuts by sliding a blade between the cover and the arm to unclip it by lifting.

HOLLOW THREADING TOOL

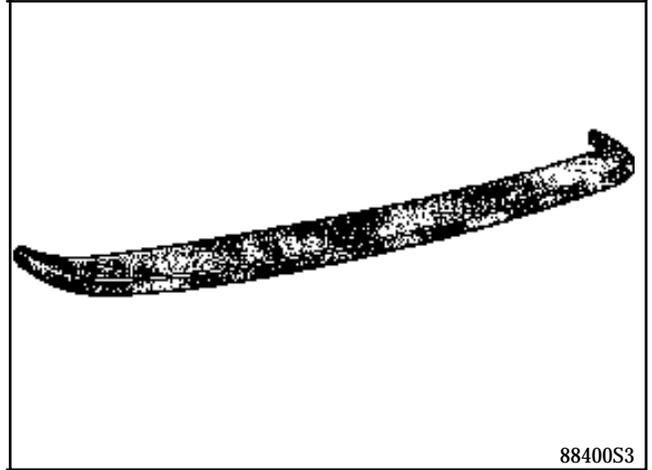


"EASY CUT" PNEUMATIC TOOL FOR REMOVING  
BONDED WINDOWS (DCAV/SODICAM)



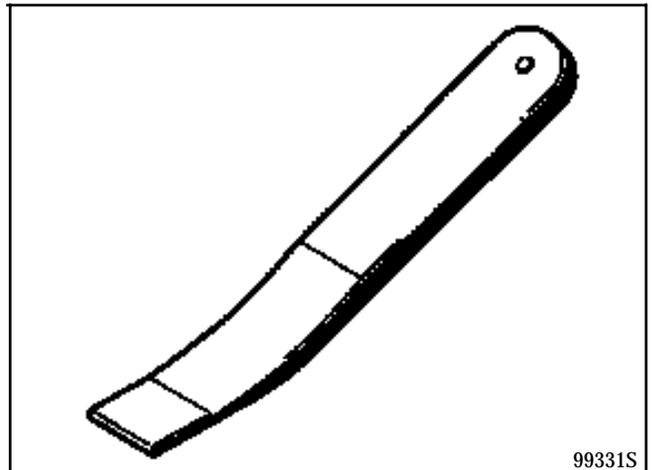
Refer to the corresponding Technical Note for details of the method and recommendations for use for this tool.

DASHBOARD PROTECTOR



Car. 1482 - Part Number : 00 00 148 200.

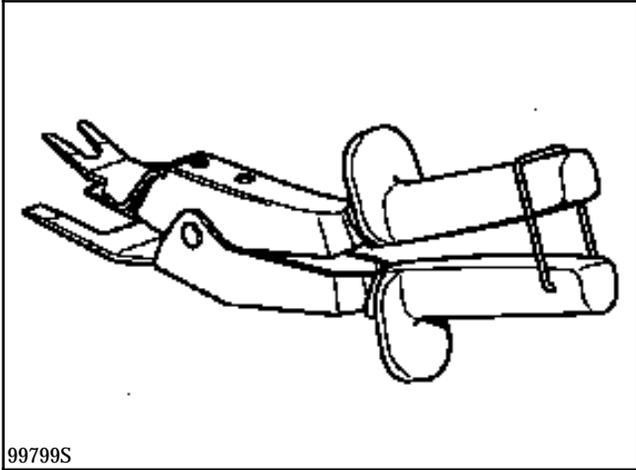
TOOL FOR REMOVING EXTERIOR REAR VIEW  
MIRROR GLASS



Car. 1363 - Part Number : 00 00 136 300.

This tool may also be used for removing the roof trim strips and the exterior door weatherstrips.

UNPICKING PLIERS

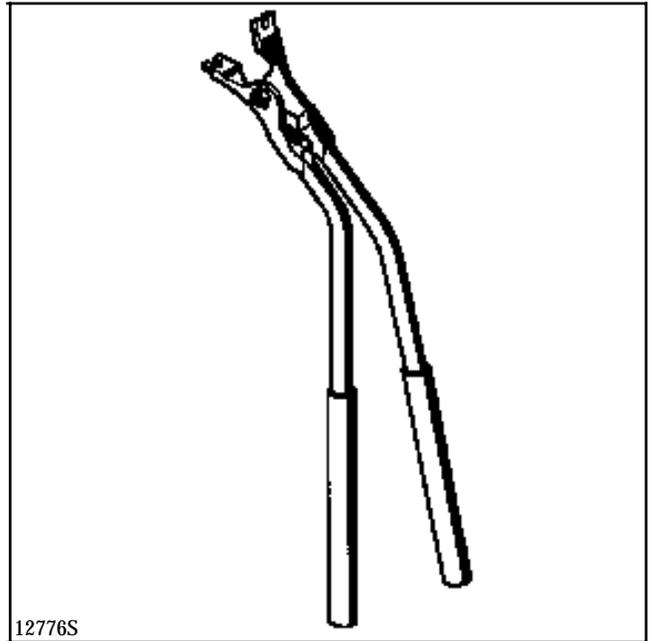


Using these pliers, clips may be easily removed and interior lining clips such as those used for door panels, soundproofing mats and **mudguard mountings** may also be released.

**Door window winder handles** may also be removed (apply a piece of masking tape to the bearing surface on the door lining first to avoid damaging it during removal).

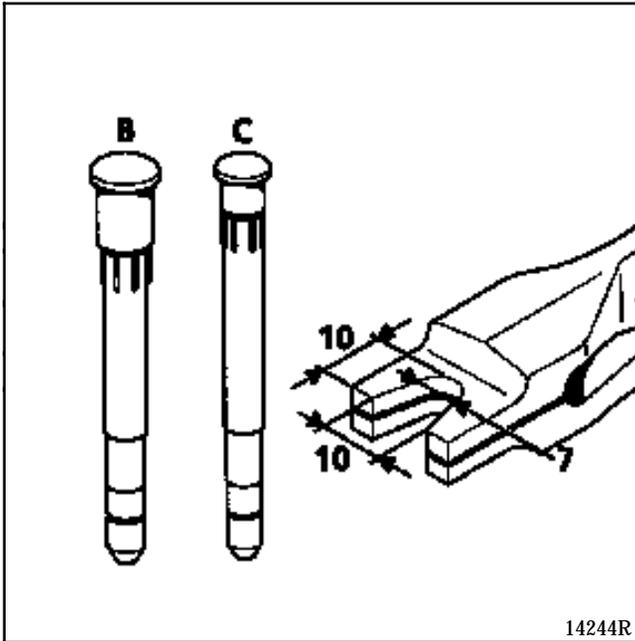
The bevelled, flat nose allows easy access, without causing damage underneath clips. The clip heads are not deformed and may therefore be re-used on refitting (refer to the corresponding Technical Note).

TOOL FOR REMOVING DOOR HINGE PINS



**Car. 1415 - Part Number 00 00 141 500.**

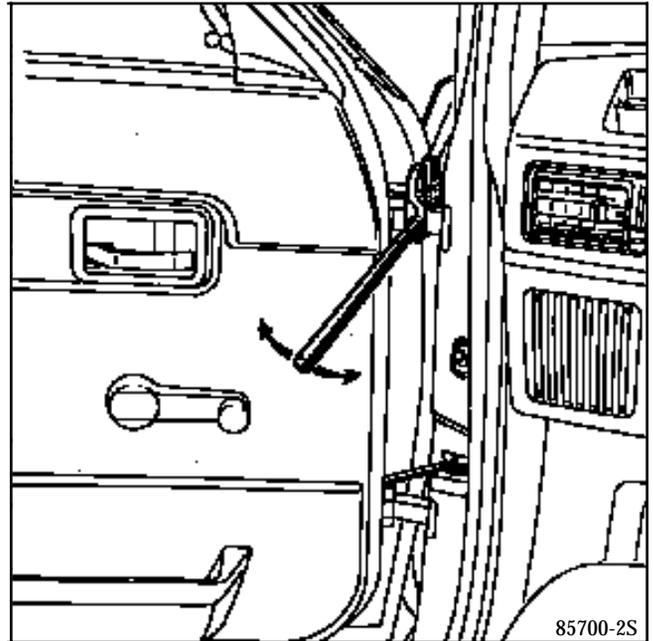
## MODIFICATION FOR TOOL FOR REMOVING DOOR HINGE PINS



Following this modification, it is now possible to remove pins of type X65 (B) as well as pins of type MEGANE (C).

Using a flat file and a round file, file the end of the nose of the tool as well as the bottom of the groove to obtain the precise dimensions shown on the diagram above.

## TOOL FOR ADJUSTING TILT ANGLE OF SIDE OPENING ELEMENTS

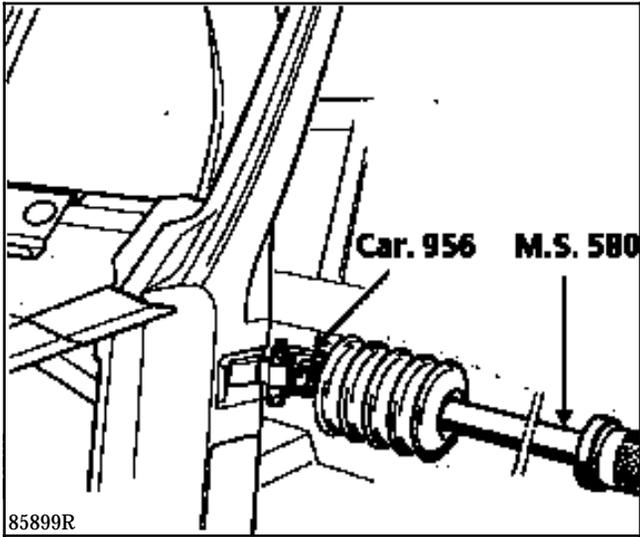


The tilt angle of the door may be adjusted using the special WILMONDA tool, reference BHA.

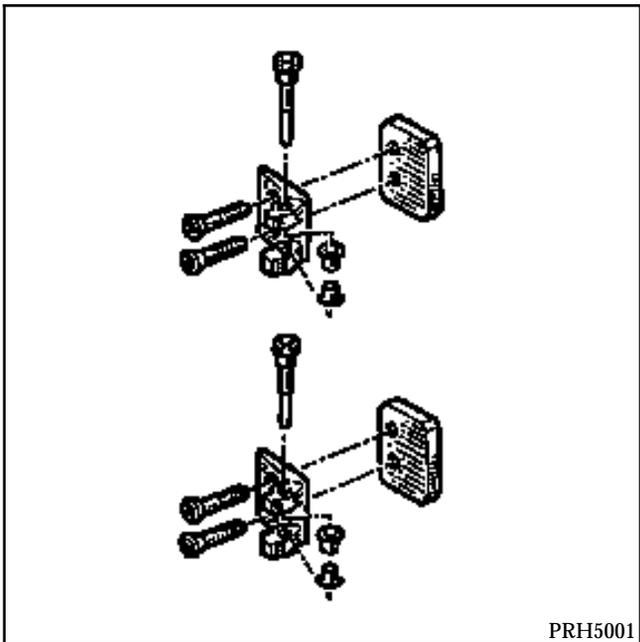
Supplier: Z. INTERNATIONAL

This tool allows the X position to be modified for the welded hinge on the front pillar or the centre pillar.

ADJUSTING DOOR CLEARANCE



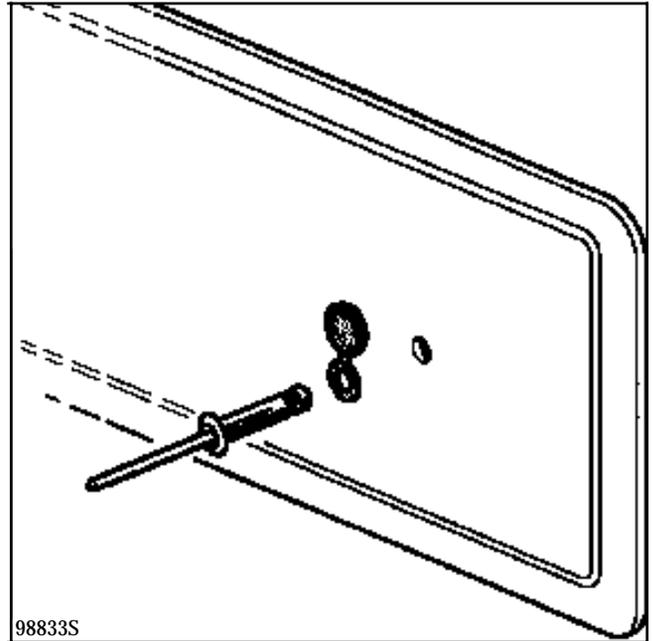
Adjustment scope: 3 mm



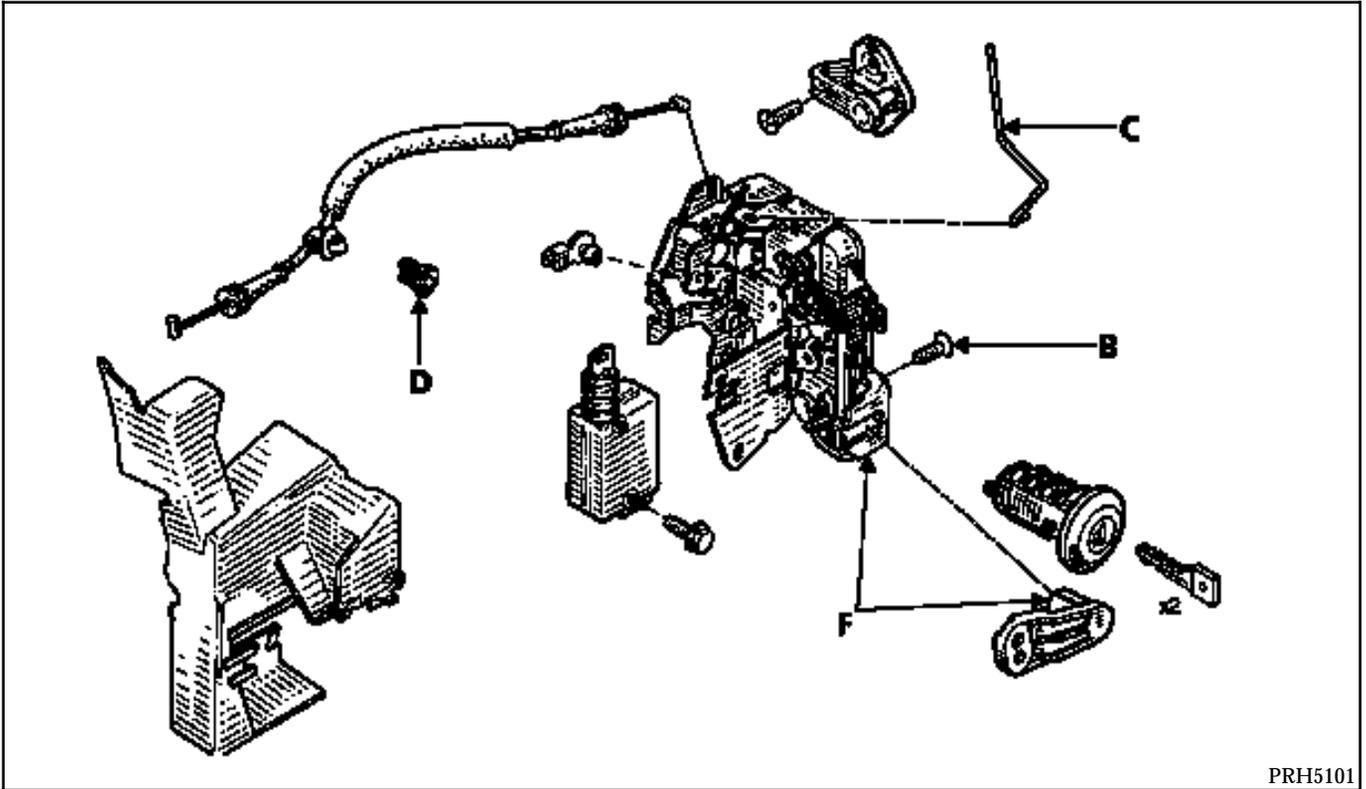
When replacing opening elements or bodies, when refitting, use the specific after sales mountings kits.

For details on the composition and part numbers of these kits, refer to Technical Note 384A.

MOUNTING NUMBER PLATES



For details on recommendations for fitting number plate mounting rivets, refer to Technical Note 418A.

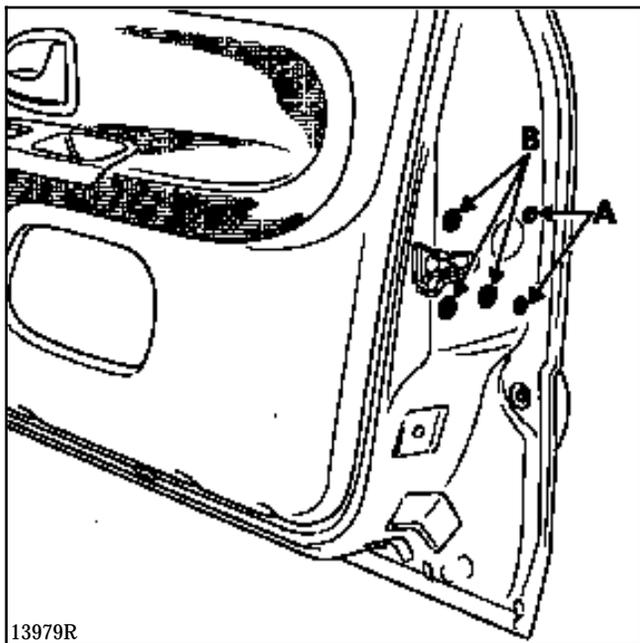


Remove:

- the front door lining (see section 72-A)
- the impact absorber (see section 59-A)

**NOTE :** the interior door opening control has a sheathed cable.

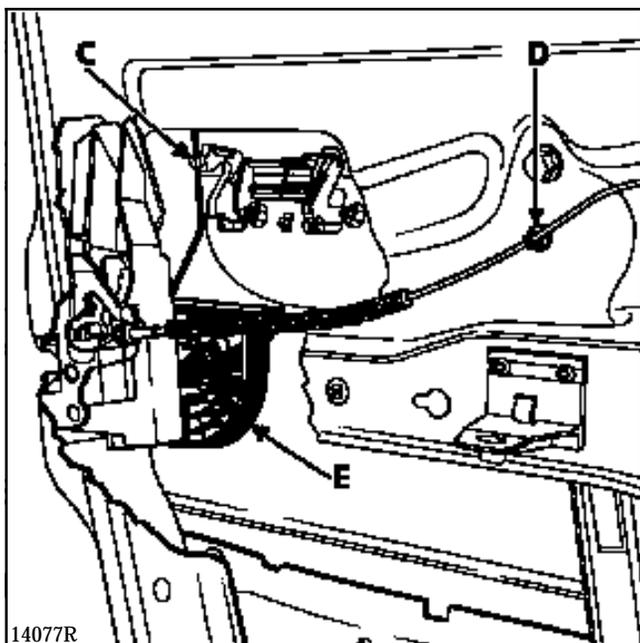
### REMOVAL



13979R

#### Remove:

- the two mounting bolts (A) for the anti-theft bracket,
- the three mounting bolts (B) for the lock on the door box section.

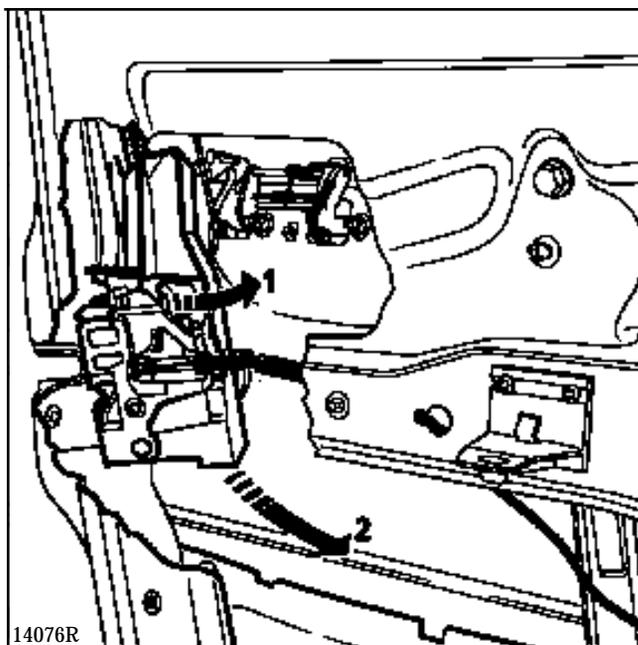


14077R

Release the exterior door opening control linkage (C).

Remove the interior control cable from the retaining clip (D).

Remove the anti-theft bracket (E).

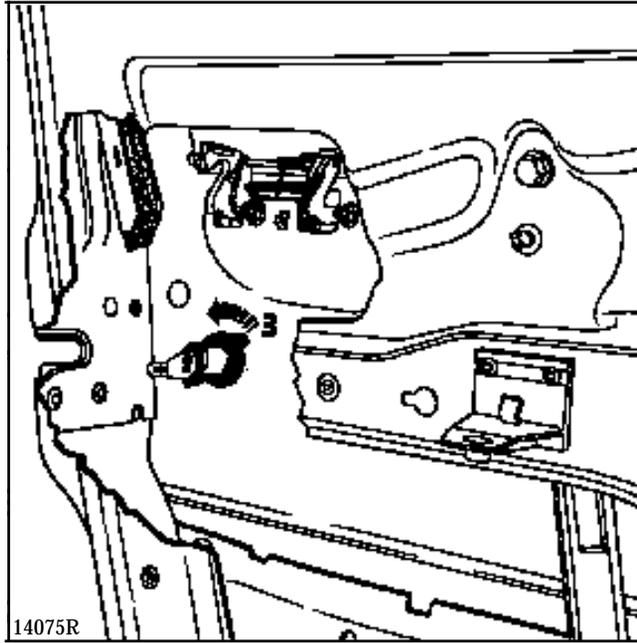


14076R

Remove the retaining clip from the lock motor supply connector and remove it.

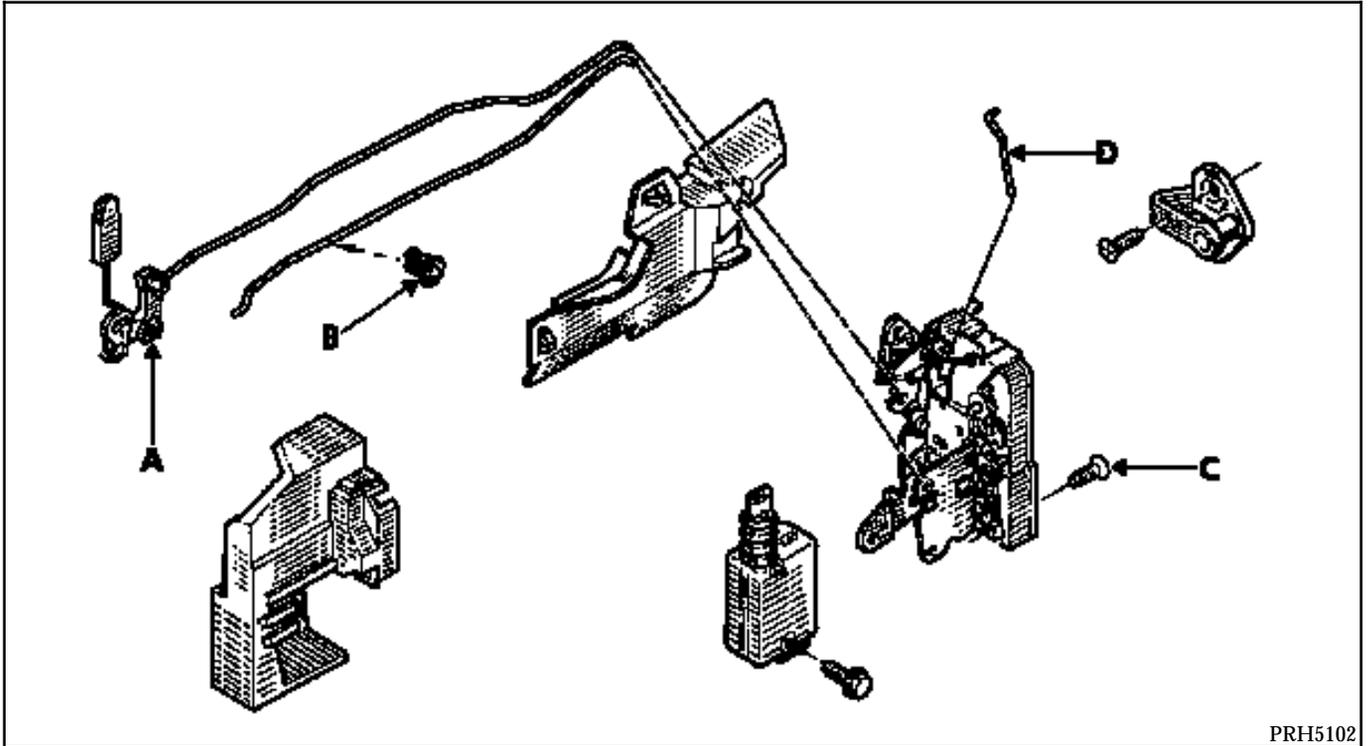
Tilt (1) the lock towards the door panel to release it from the control finger (F) of the barrel (see previous page).

Remove the lock (2) from the door box section.



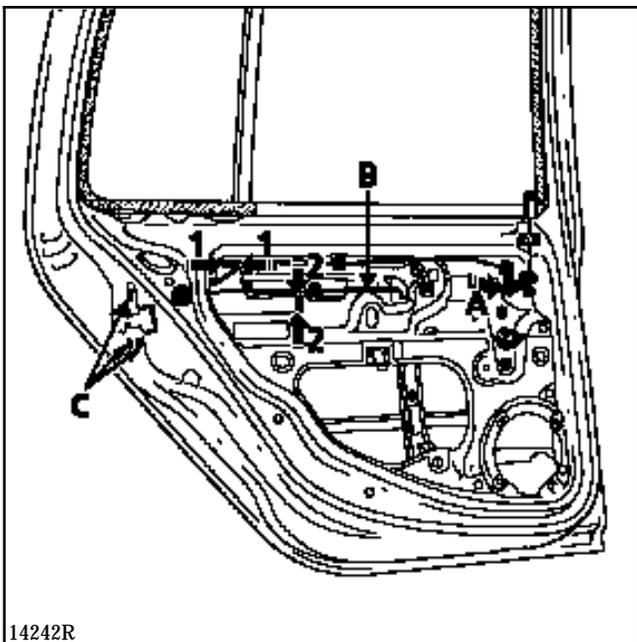
Turn the retaining clip a quarter turn (3) and remove it from its location on the body of the barrel.

Remove the barrel from the door panel.



PRH5102

Remove the rear door lining (see section 72-B).



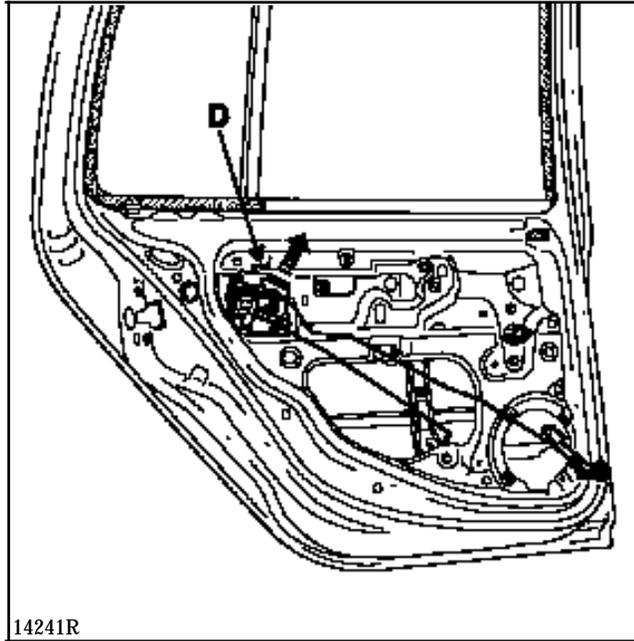
14242R

Unclip at (1) and (2) the lock's anti-theft cover.

Release :

- the return bracket (A) and the door locking button linkage,
- the interior door opening control linkage (B).

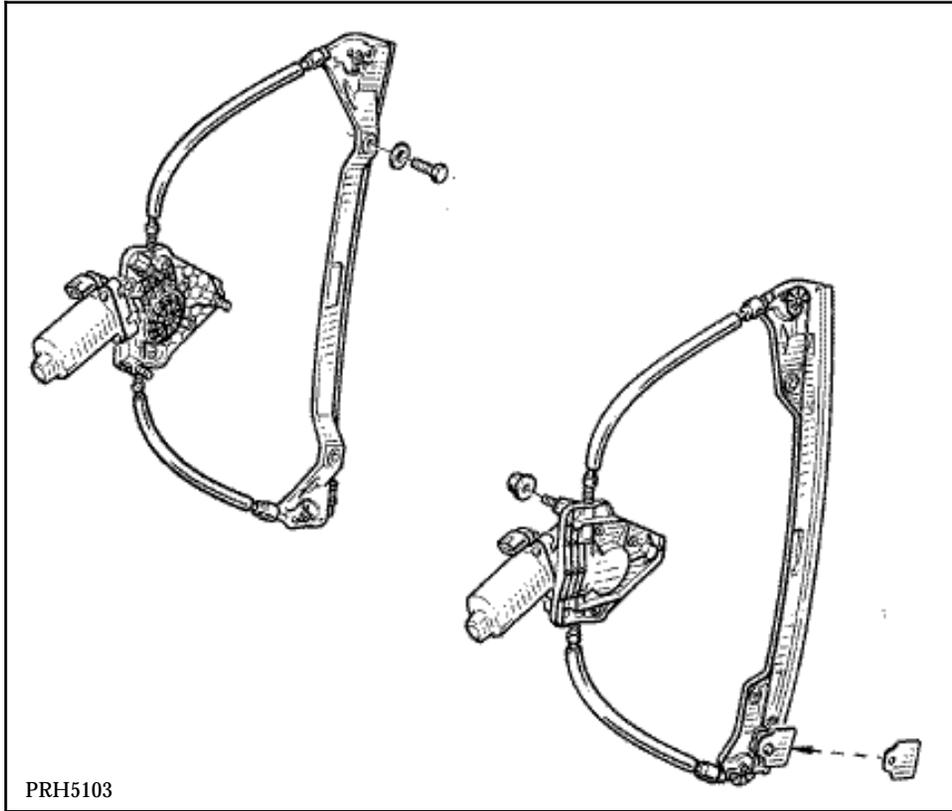
Remove the three mounting bolts (C) for the lock on the door.



Release the exterior opening control linkage (D) on the door handle.

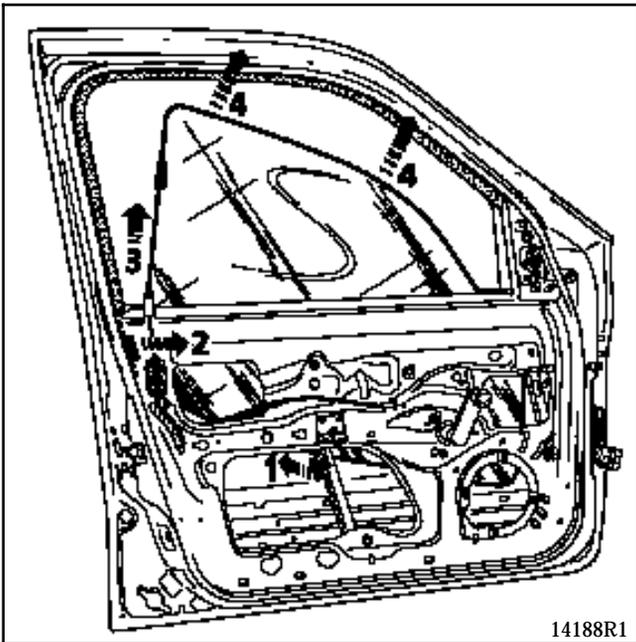
Remove the retaining clip from the motor supply connector and remove it.

Release the lock towards the front of the door and remove it via the door box section opening.

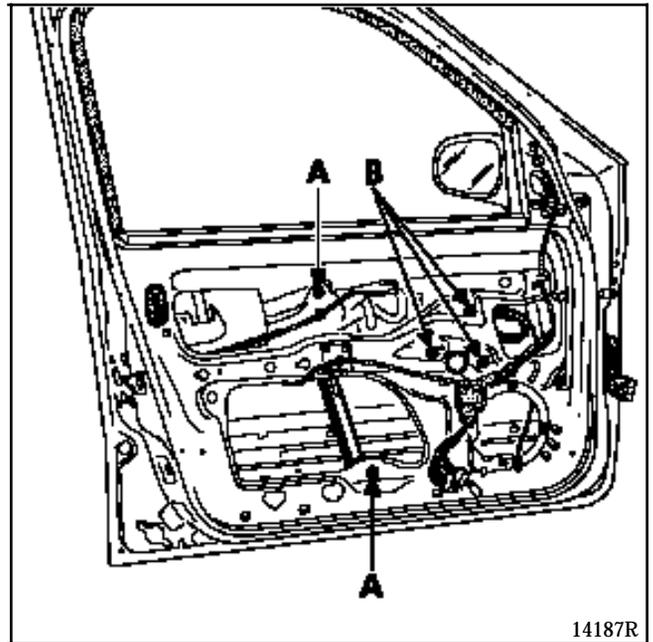


**REMOVAL**

Remove the front door lining (see section 72-A).

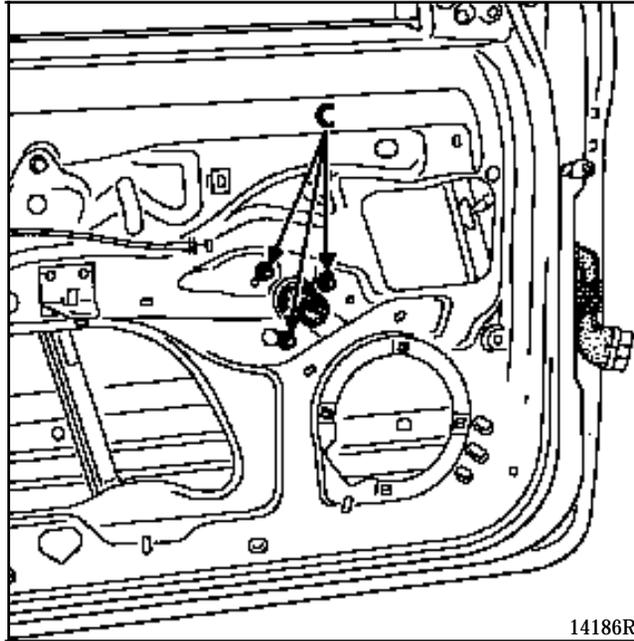


Remove the front door window and the interior weatherstrip (see section 54-C).

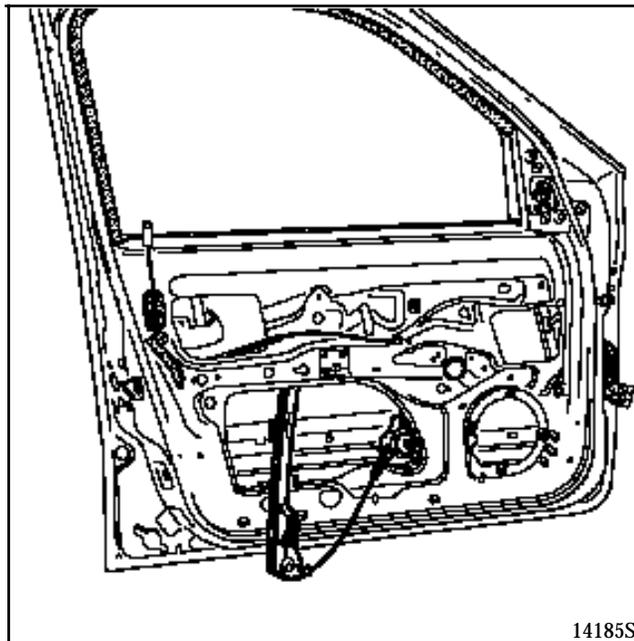


Remove:

- the two guide rail mounting bolts (A),
- the three motor mounting bolts (B).

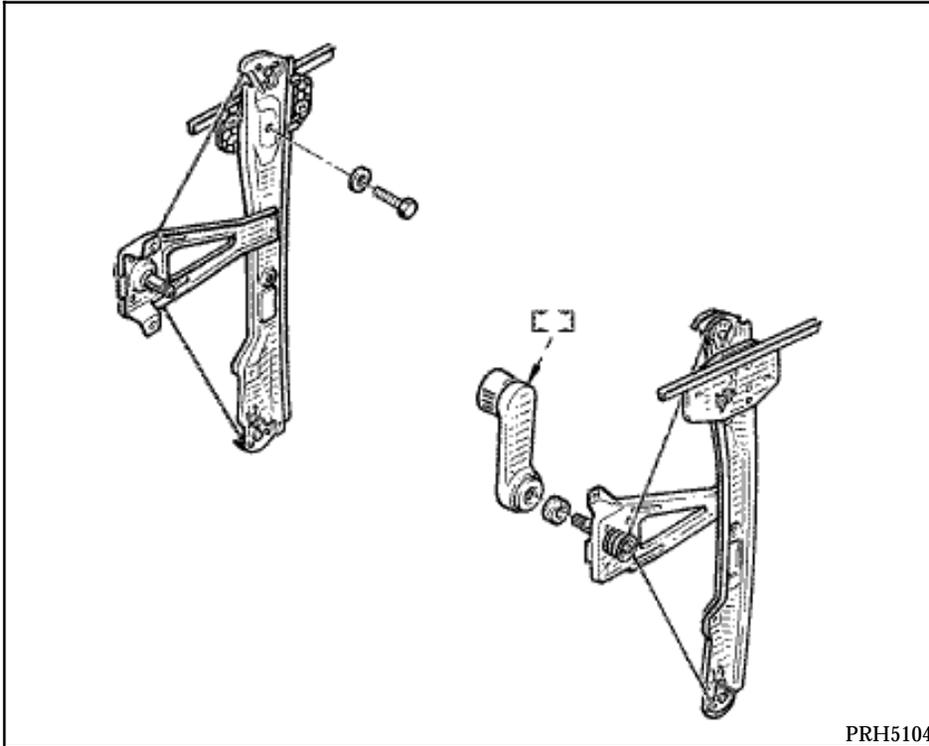


**IMPORTANT:** The mounting points for the manual window winder (C) are not the same as the mounting points (B) for the electric window system with motorised drive (see previous page).



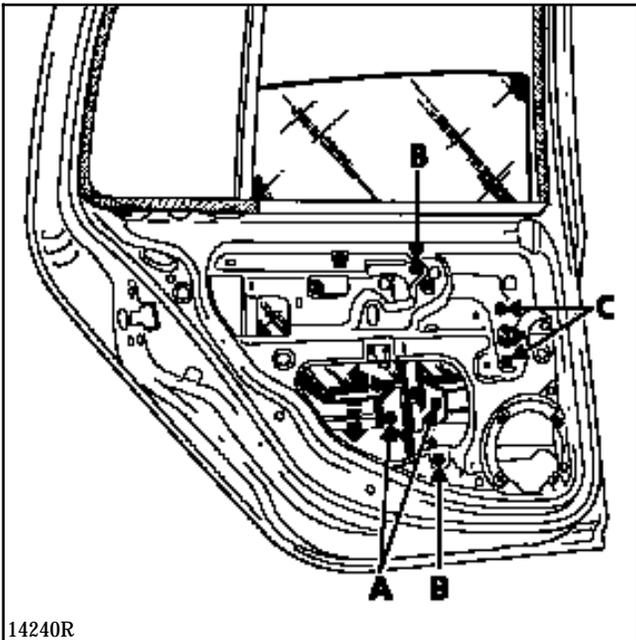
Remove the electric window motor supply connector if necessary.

Remove the window winder through the door box section opening.



**REMOVAL**

Remove the rear door lining (see section 72-B).



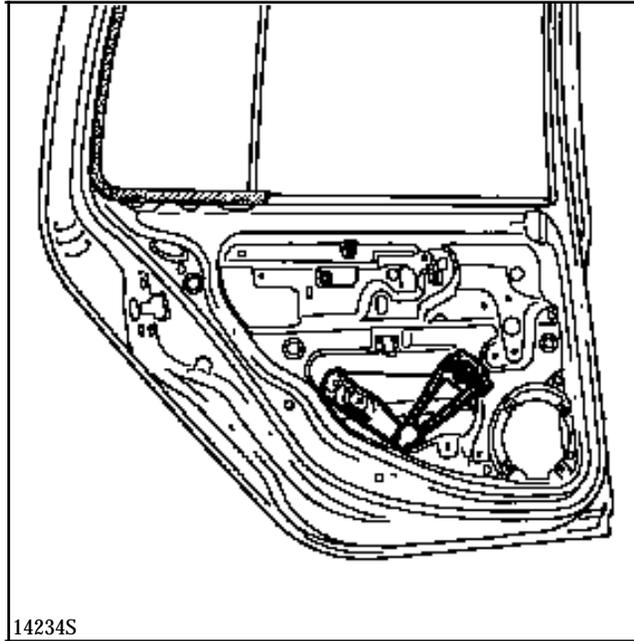
14240R

Remove the two mounting bolts (A) for the window on the electric window guide carriage.

Lower the window to the bottom of the door box section.

Remove:

- the two mounting bolts (B) for the guide rail,
- the mounting bolts (C) for the manual or motorised window winder command.



Remove the electric window motor supply connector if necessary.

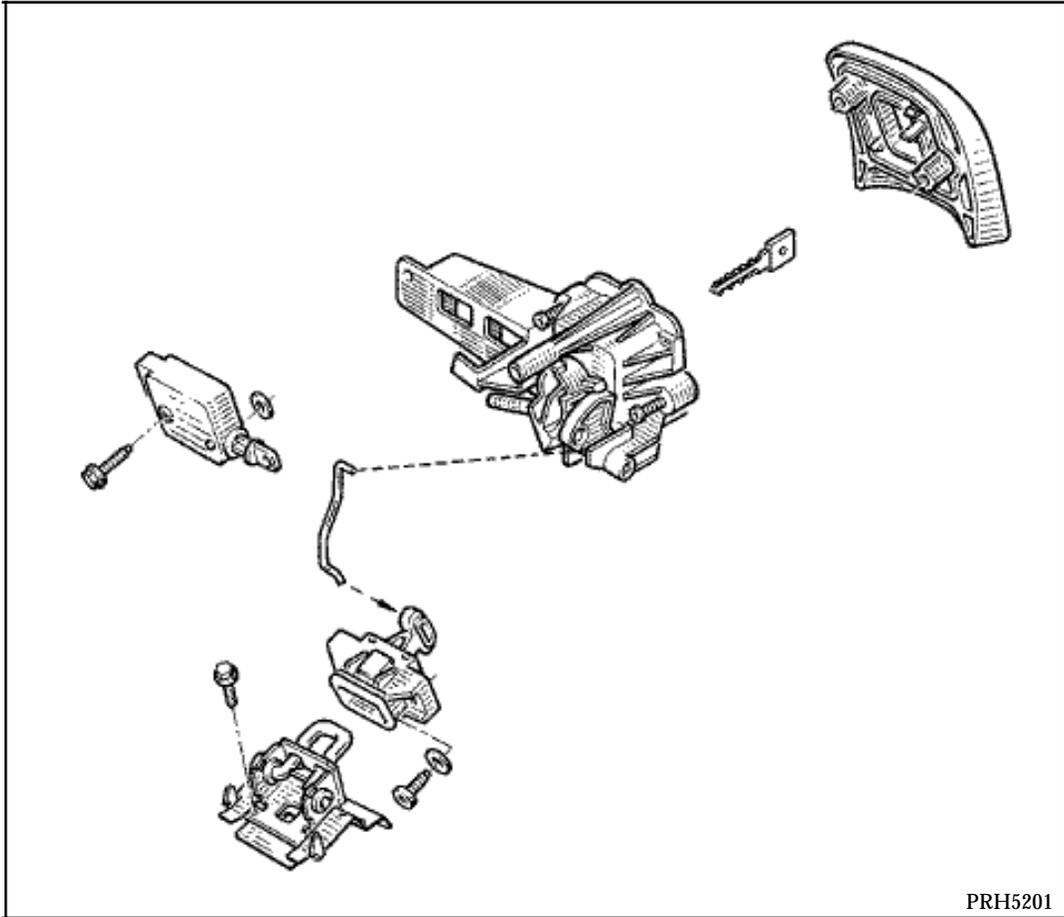
Remove the window winder through the door box section opening.

**REFITTING**

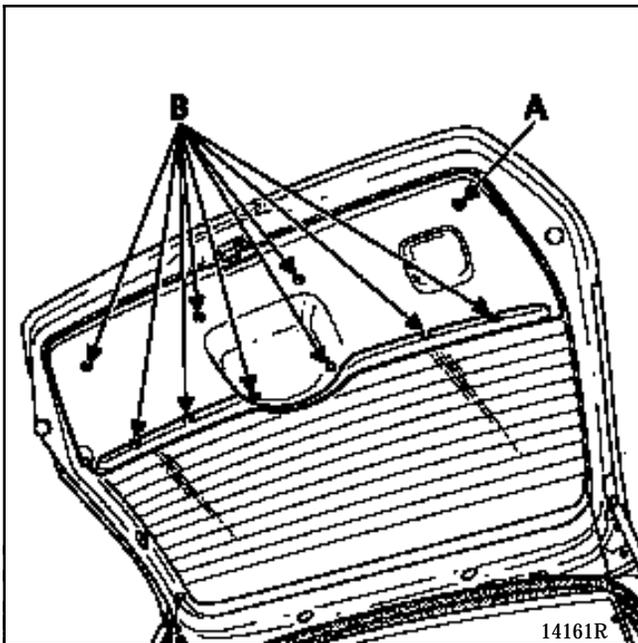
When refitting the mounting bolts (A) (see previous page), before tightening them, return the window to the fully closed position.

Tighten the bolts by passing a ring spanner through the box section openings provided for this purpose.

The window is then correctly positioned in relation to the guide carriage.



REMOVAL

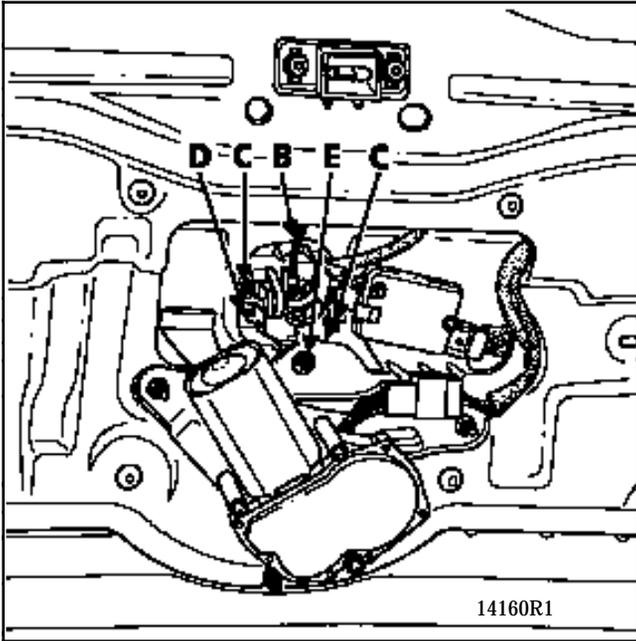


Remove:

- the tailgate trim,
- the mounting bolt (A).

Using unpicking pliers, unclip the lining (B).

Remove it.



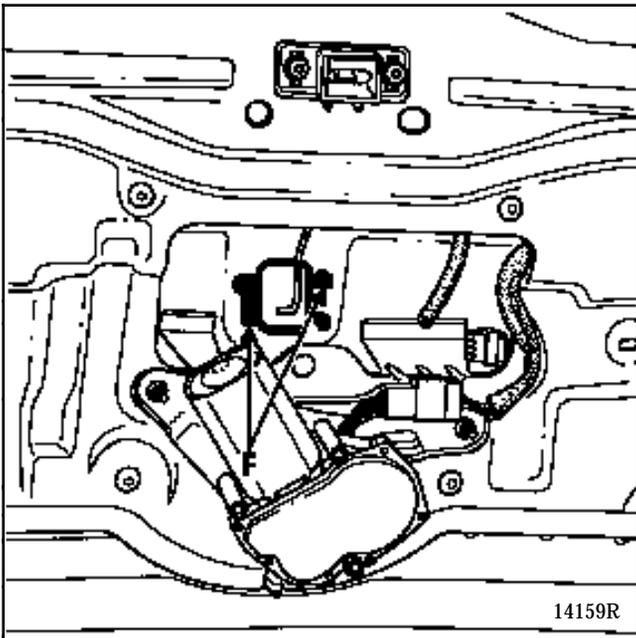
Remove:

- the lock control linkage (B),
- the two mounting bolts (C).

Unclip the barrel / motor assembly (D).

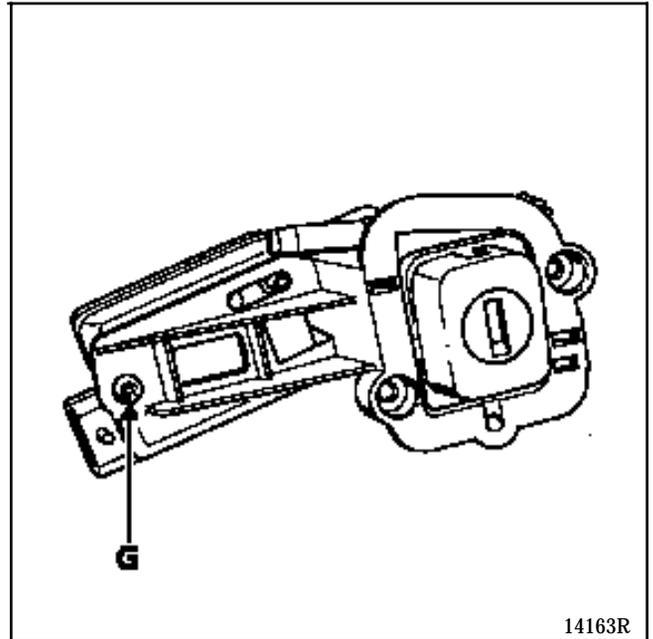
Disconnect the motor supply connector.

Tilt the barrel / motor assembly to release the pin (E) from the tailgate lining.



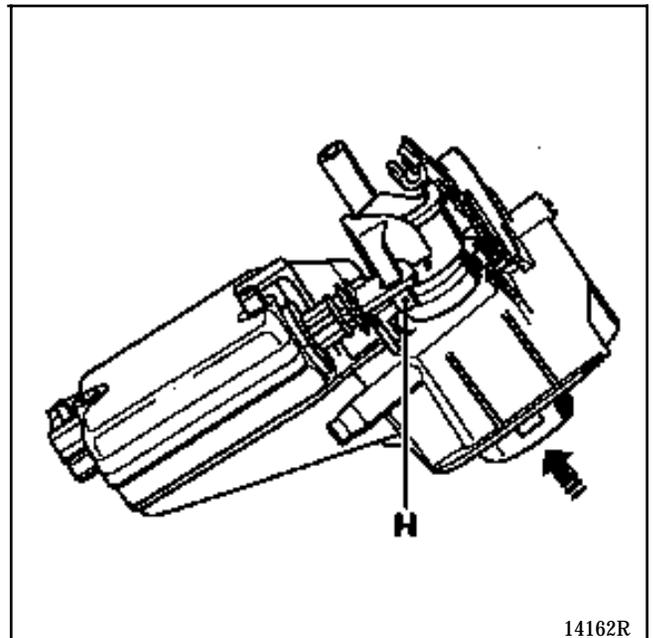
Using a small flat blade screwdriver, unclip the opening handle (F).

### REMOVING THE LOCK MOTOR



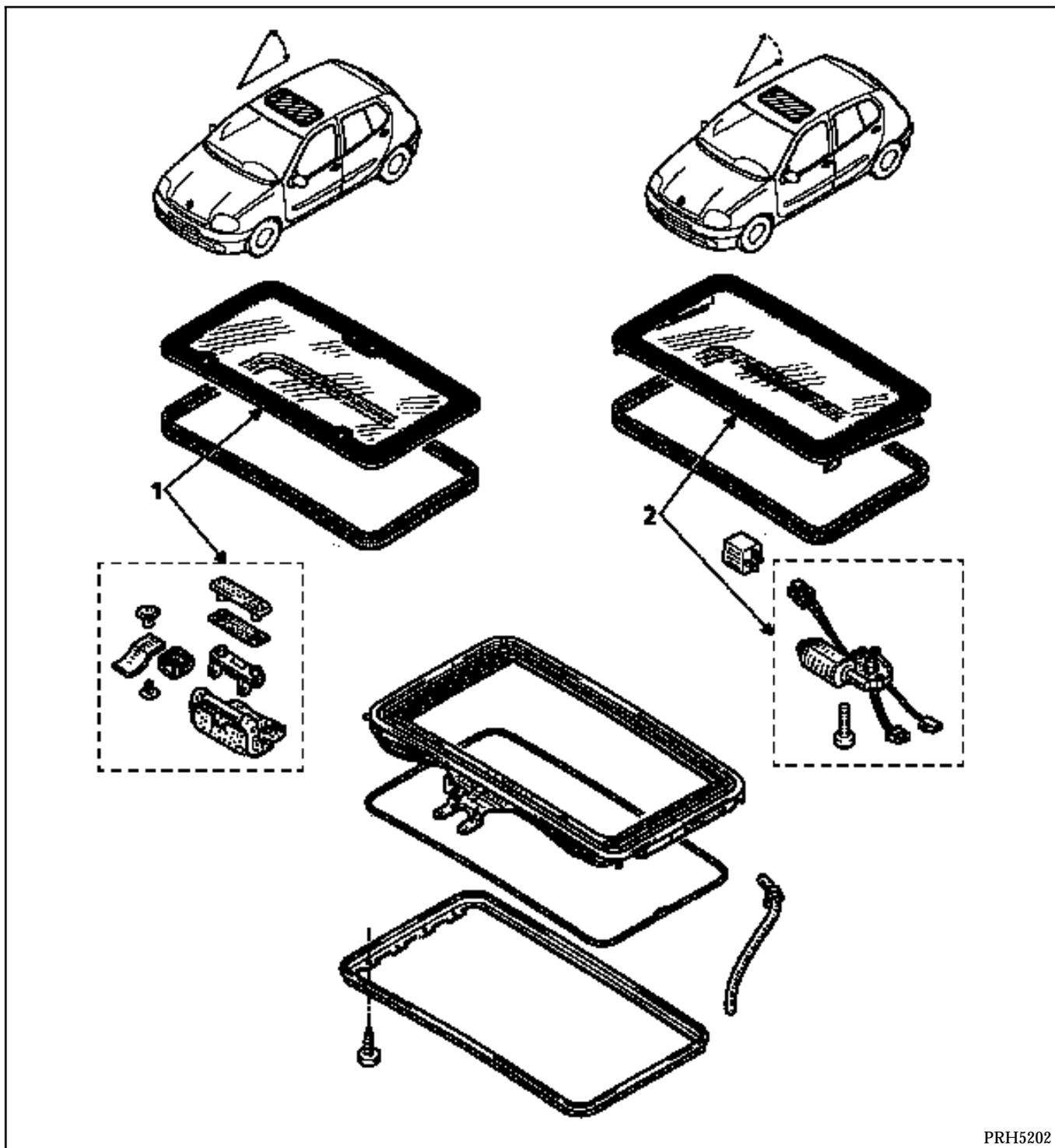
Remove the mounting bolt (G).

### REFITTING



Push the barrel to release the motor shaft from the finger (H).

**IMPORTANT** : before refitting the opening handle, check that the seal in contact with the tailgate paintwork is clean.



PRH5202

#### INTRODUCTION

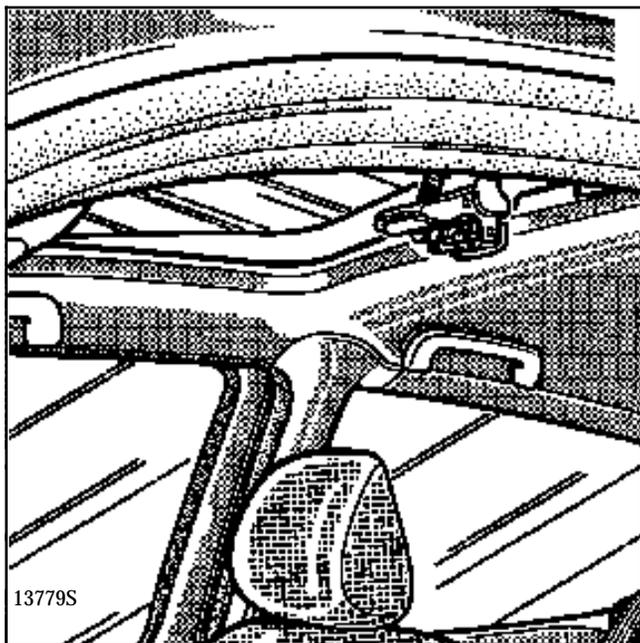
This sunroof is of the tilt and slide type.

The manual (1) and electric (2) sunroof cassettes are identical.

This cassette has sun blinds, the removal of which is described in section 52-E.

**NOTE :** the special headlining for the sunroof is bonded at the rear to the roof panel. It no longer has velcro retaining strips.

### REMOVAL



Disconnect the battery.

Remove:

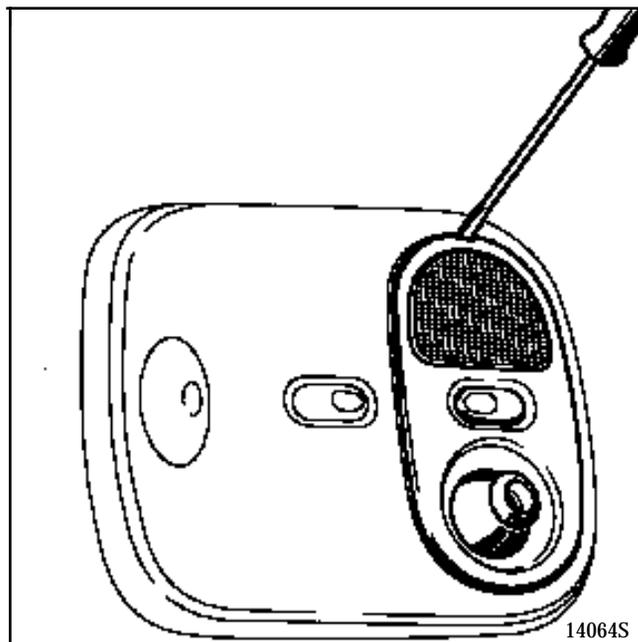
- the door seals,
- the luggage compartment seal,
- the grab handles, (see section 58-A),
- the front sun visors,
- the centre pillar linings (see sections 71-C and 71-E),
- the windscreen pillar linings (see section 71-A).

Fold down the rear seatbacks to make the following operations easier.

Note the position of the sunroof on the roof using adhesive tape to ensure it is correctly centred when the cassette is refitted.

**IMPORTANT** : if there is a fault, the moving panel may be operated manually (see section 52-C).

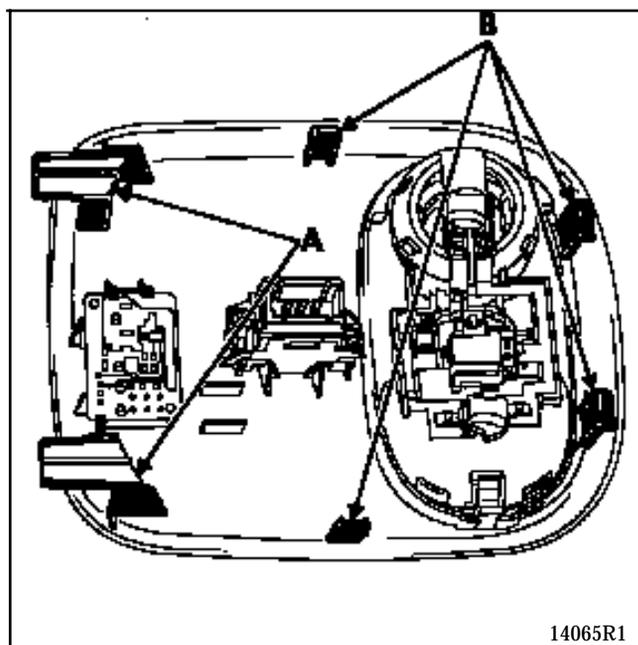
To move the panel, remove the roof console and move the sunroof using a **4mm hexagonal** spanner.

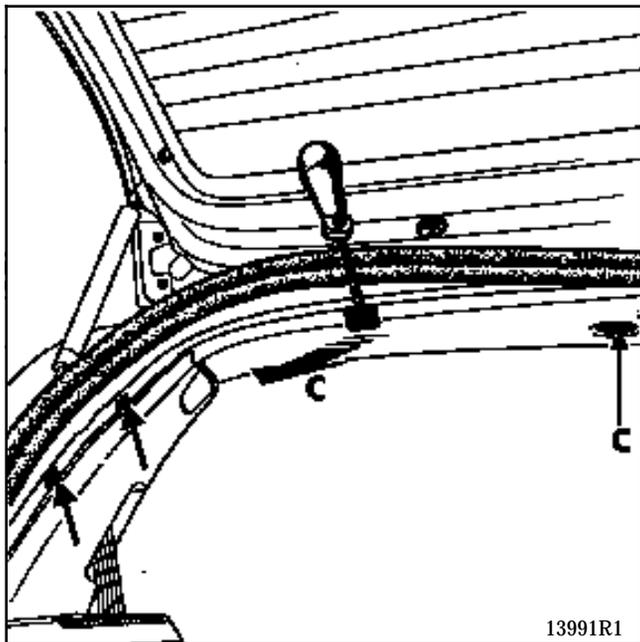


### REMOVING THE ROOF CONSOLE

Remove the courtesy light bulb by inserting a small screwdriver as shown in the diagram above.

The console is secured to the headlining by four clips (B) and two brackets (A).

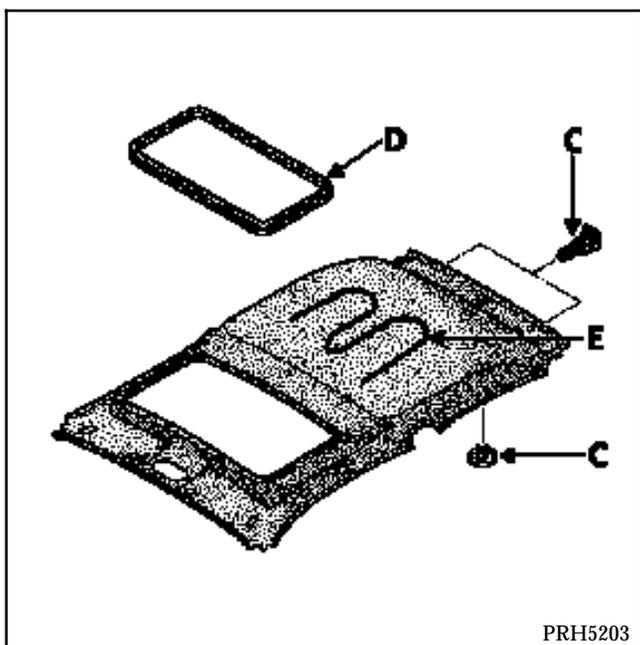




### REMOVING THE HEADLINING

Partially remove the luggage compartment seal where it touches the upper part of the side shelf.

Using a flat blade screwdriver, remove the sun visor retaining clips and the retaining clip for the headlining (C).



Remove the interior finishing strip (D).

Cut the bead (E) using window mastic bead cutting equipment (wire, pulling handle, picking tool).

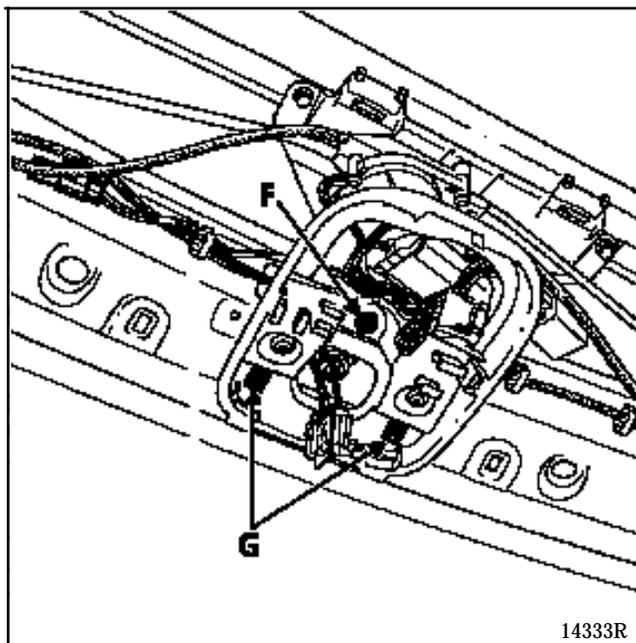
Separate the two upper parts of the rear shelf, slide the headlining backwards and remove it through the tailgate.

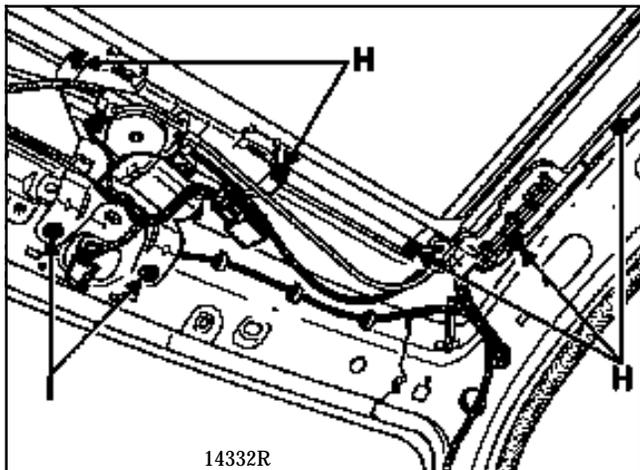
### REMOVING THE ROOF CASSETTE

Remove the mounting bolt (F).

Unclip (G) the roof console mounting and remove it.

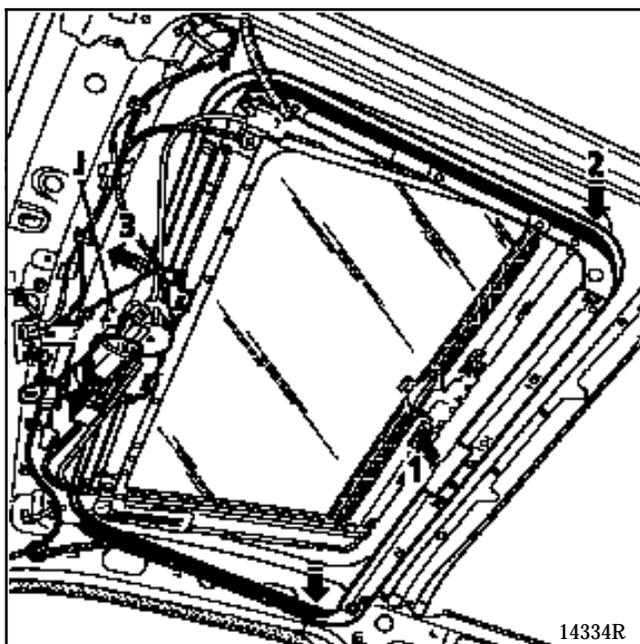
Remove the motor supply connector.





Remove the mounting bolts (H) for the counter frame and the mounting bolts (I) for the motor support.

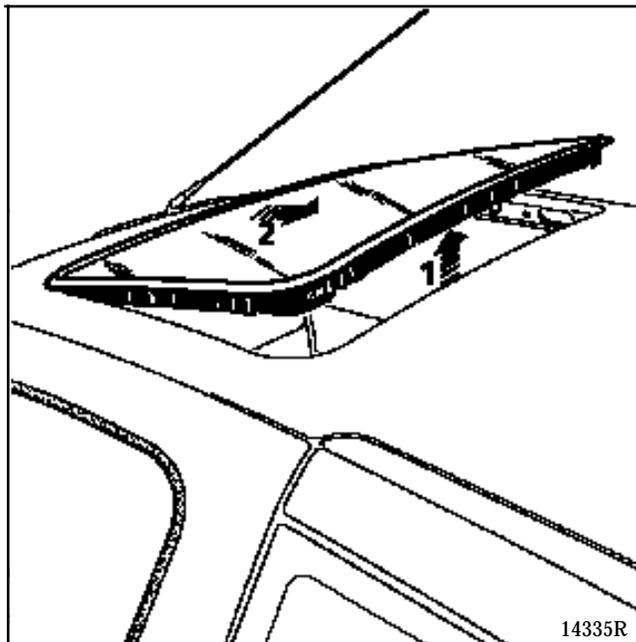
Remove the sunroof cassette water drain pipes.



To remove the sunroof cassette, use the following procedure:

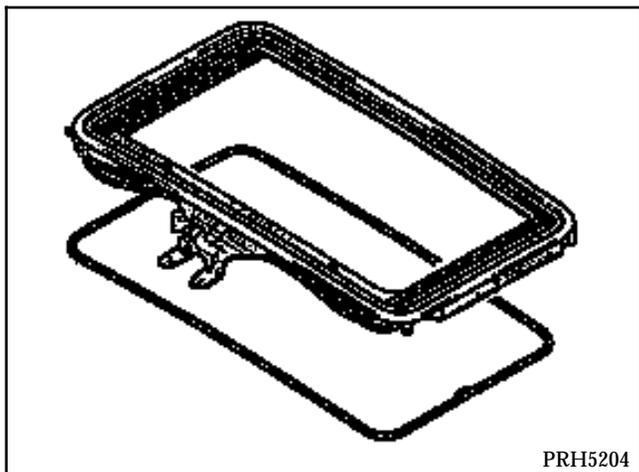
lift the sunroof cassette (1) at the rear and release the counter frame (2) and (3) from its position under the motor support plate (J).

**NOTE :** the motor support plate does not need to be removed to remove the sunroof cassette from its location on the roof panel.



After lifting the rear of the cassette (1), release the sunroof cassette / drive motor assembly (2).

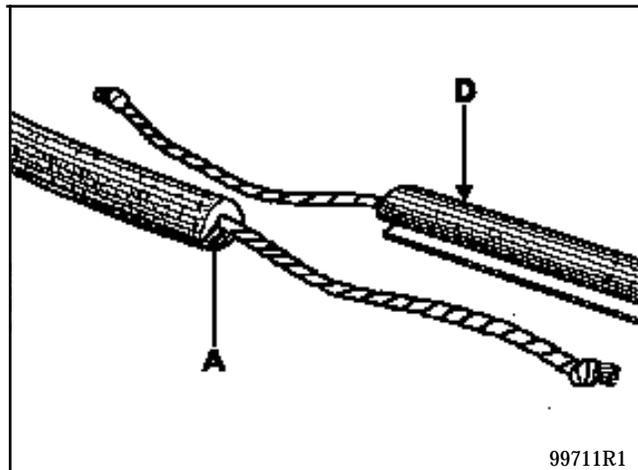
### REFITTING



**IMPORTANT :** for all operations of removal - refitting, the foam seal between the sunroof cassette and the roof panel must be renewed.

Also clean the sealing face of the roof panel using surface cleaner.

To refit the sunroof cassette, refitting is the reverse of removal.



Refit the interior finishing strip (D) to the cassette (before refitting the cassette) inserting a piece of string into the groove (A) beforehand, all along the length of the seal.

### TIGHTENING TORQUES (in daN.m)



Sunroof cassette mounting bolt

0.4

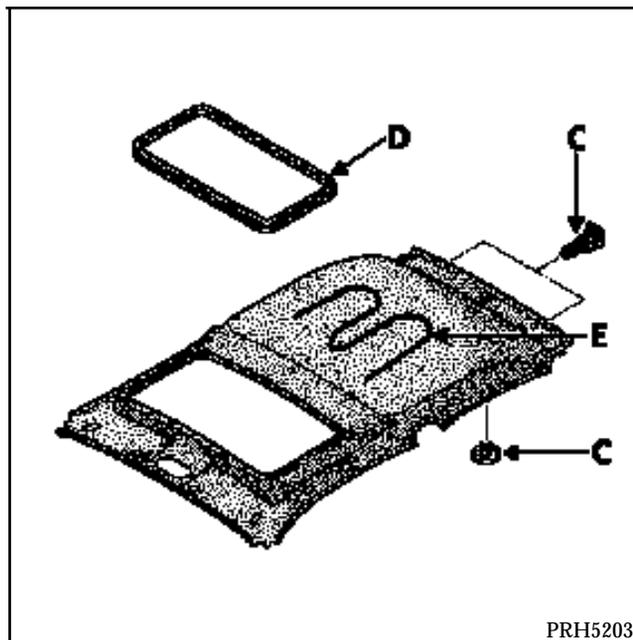
### REFITTING THE HEADLINING

If necessary, clean back the remainder of the bead of mastic on the roof panel.

Position the headlining (E) offering it up after bringing it into the vehicle through the tailgate (two people required).

Slide the headlining to the front of the vehicle and position it using the retaining clips for the front sun visors.

Flatten out the rear of the headlining and refit the retaining clips (C).

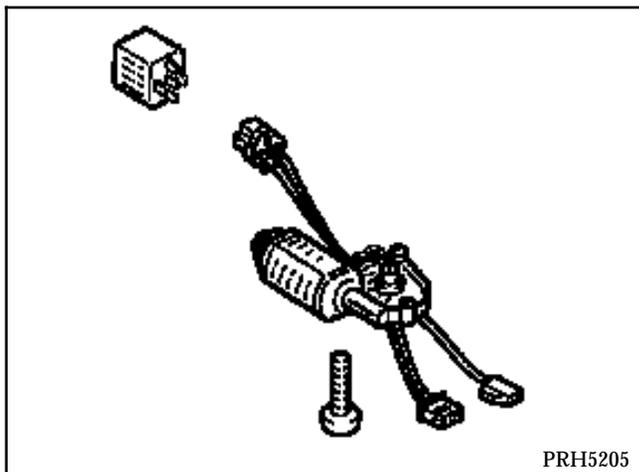


**NOTE :** for bonding the headlining, use an additional cartridge of single pot rapid adhesive, Part Number : 77 11 171 314.

Now refit the other linings.

**IMPORTANT :** remember to reconnect the water drain pipes.

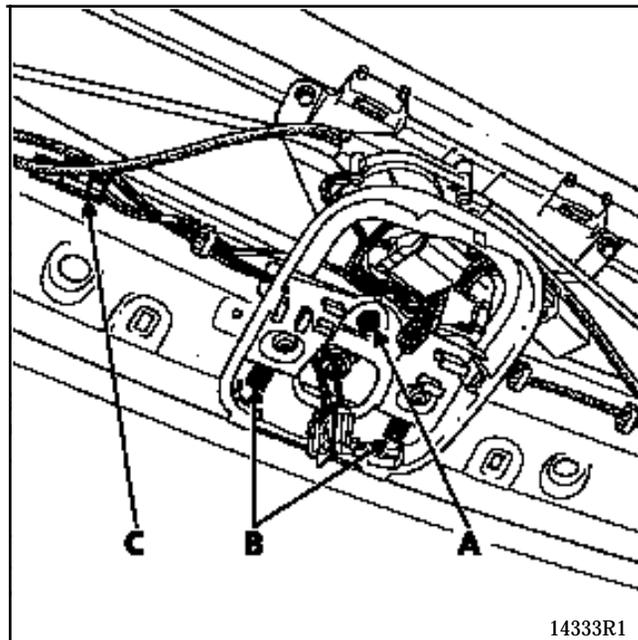
### REMOVAL



In all cases where the motor is removed, check or adjust the zero point as described below.

One of two cases may arise (motor non-operational) :

- sunroof closed,  
or
- sunroof open.



### REMOVING THE MOTOR, SLIDING PANEL CLOSED

Disconnect the battery.

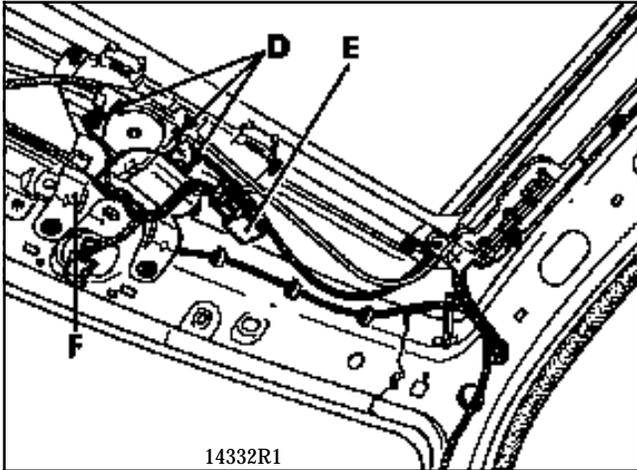
Remove:

- the front sun visors and retaining clips,
- the windscreen pillar linings (see section 71-A),
- the roof console (see section 52-B).

Remove the mounting bolt (A).

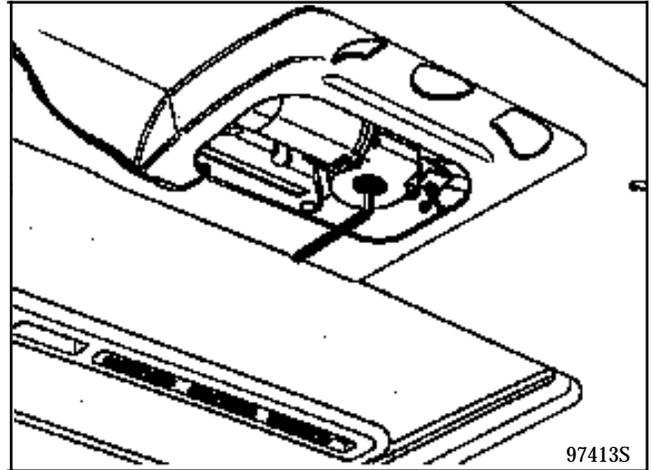
Unclip (B) the roof console mounting and remove it by moving the front of the headlining slightly to one side, taking care not to fold it.

Disconnect the motor supply connector (C).



Remove the three motor mounting bolts (D) and disconnect the relay (E).

Remove the motor from the metal plate (F) mounted on the sunroof cassette.



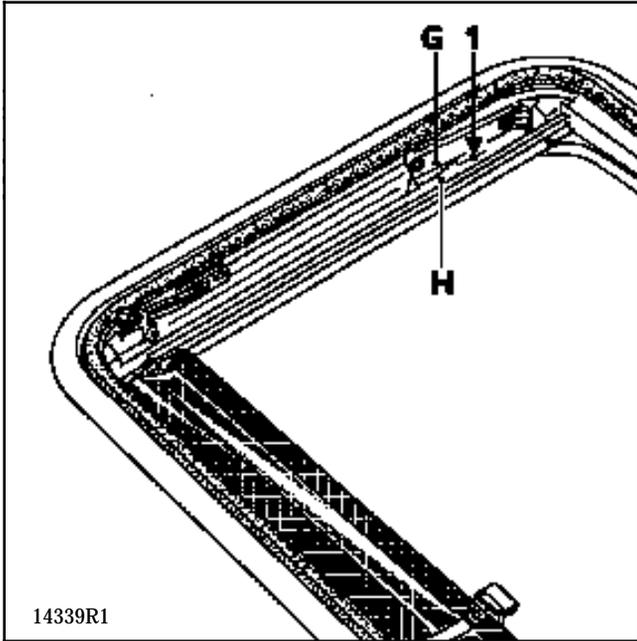
#### REMOVING THE MOTOR, SLIDING PANEL OPEN

Carry out the same trim removal operations as before.

Close the sunroof manually using a **4 mm hexagonal** spanner to bring the moving panel to the stop without forcing it.

Remove the motor as described previously.

**IMPORTANT :** each time the motor is removed the motor / moving panel drive bar zero point must be checked (see below) to ensure the correct operation of the motor over its complete opening / closing cycle.



### ADJUSTING THE ZERO POINT

#### Adjusting the zero point for the drive bars

Remove the moving panel (see section 52-D).

Before positioning the motor to the correct "zero point" position, manually move the sunroof motor using a **4mm hexagonal** spanner to move the carriages (G) to the level of the indexing holes at (1) on the rail.

Fit a **3 mm** diameter drill into the aligned holes (1) in the two parts (G) and (H) to immobilise the drive bar "zero point" position.

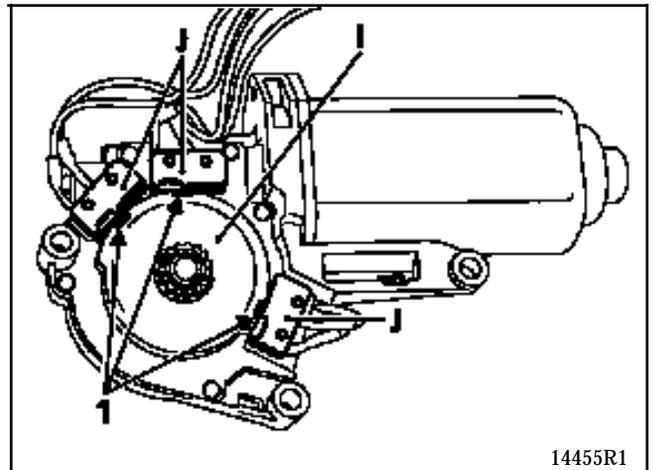
Now adjust the "zero point" of the motor.

Remove the motor mounting bolts to position the cam (I) as shown below.

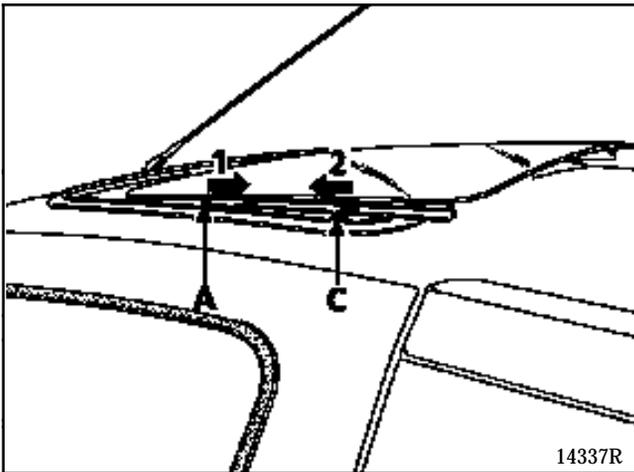
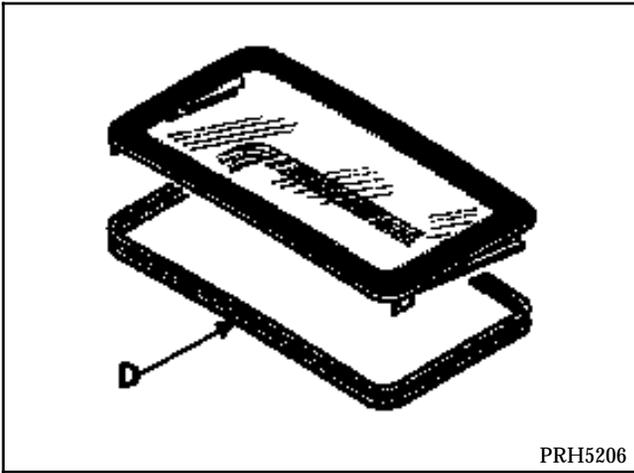
Ensure the cam is in position (1) in relation to switch (J).

Use a **4 mm hexagonal** spanner to adjust this position.

Refit the motor and operate the moving panel through a complete opening / closing cycle.



### REMOVAL

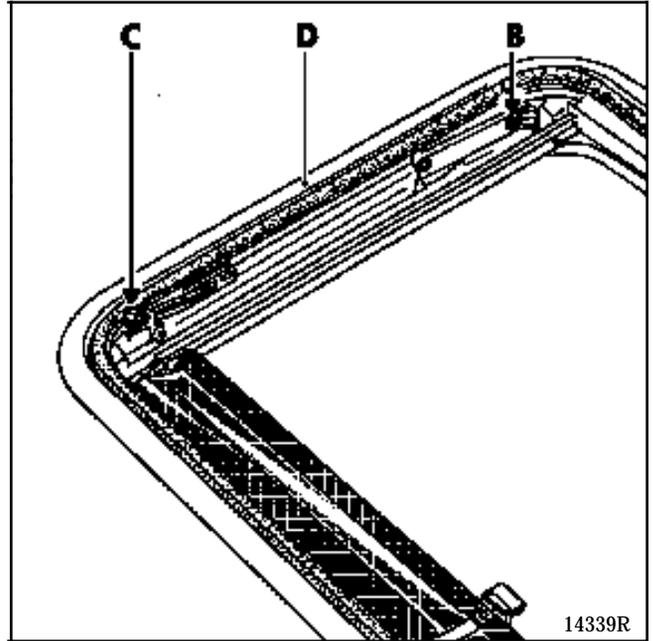


To remove the moving panel, it must be opened to reach the mounting bolts (A).

Remove these bolts and release the front (1) of the moving panel from the two drive bars (B), (see diagram below).

Now pull the panel forwards (2) to release the pads (C) from the guide rails.

Remove the moving panel.



The drive bars have:

- two mounting bolts(A), (adjustment in the X dimension),
- two fixed pins (B) for positioning the moving panel in the Z dimension,
- two guide pads (C).

The guide pads (C) must be positioned as shown in the diagram above.

**The moving panel may only be adjusted in the X dimension.**

**Ensure the moving panel is centred in relation to the seal (D) before tightening the mounting bolts (A).**

**If the roof is not correctly positioned in the Z dimension, check the "zero point" of the drive motor (see section 52-C) is correctly adjusted.**

**Also ensure the seal (D) and its sealing face on the moving panel are clean.**

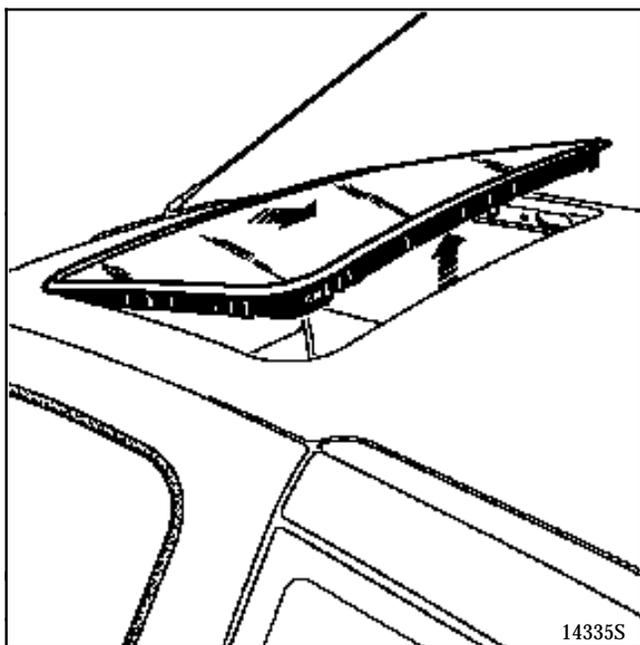
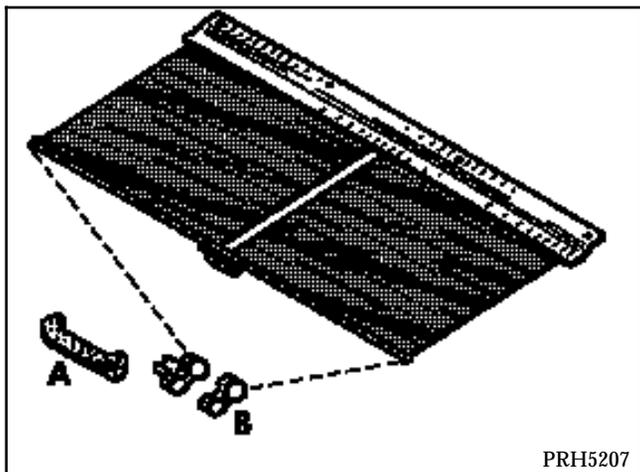
**If there is water ingress, check the condition of the seal and replace it if necessary.**

**To do this, remove the moving panel as described above and remove the seal from its location on the sunroof cassette.**

**Ensure the new seal is correctly clipped into position along its complete length into the groove on the cassette.**

**Test the sunroof sealing.**

### REMOVAL



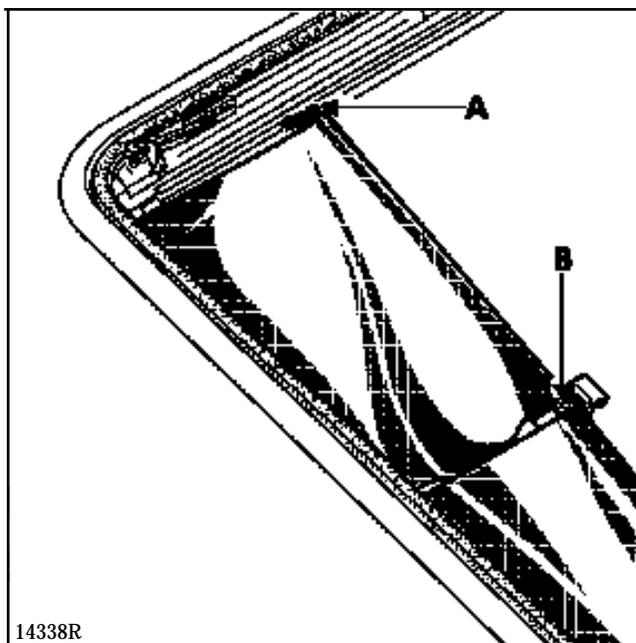
The blinds are fitted into a metal support mounted to the sunroof cassette.

If the blinds do not roll up correctly or during any replacement operation after the blinds have been damaged, the blinds / metal support assembly must be renewed.

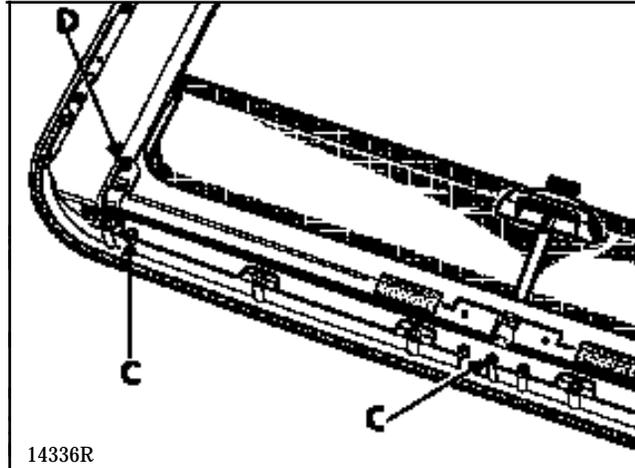
Only the handle (B) and the side pads (A) are available separately from the Parts Department.

To do this, the sunroof cassette must be removed using the method described in section 52B.

To replace the pads or the handle (mounting bolt (B)), proceed in the same manner, without removing the sunroof cassette beforehand.



Remove the guide pads (A) from the guide rails on the sunroof cassette as shown in the diagram above.



Remove the mounting bolts (C).

Remove the two mounting rivets (D).

Remove the blinds / metal support assembly.

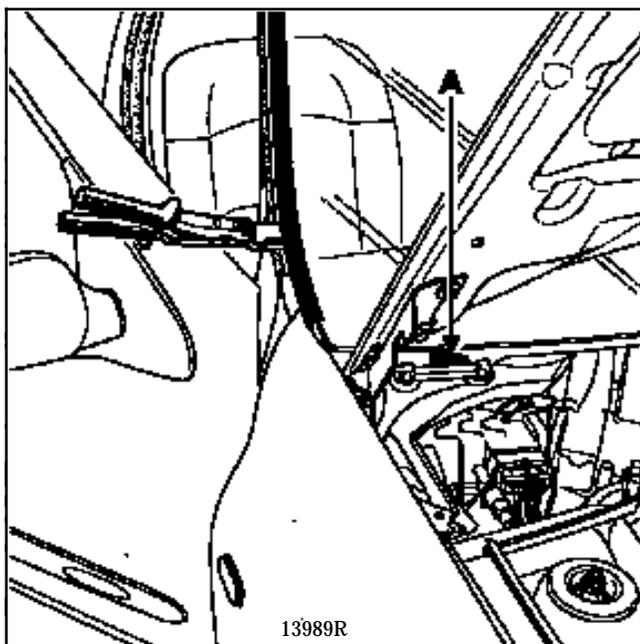
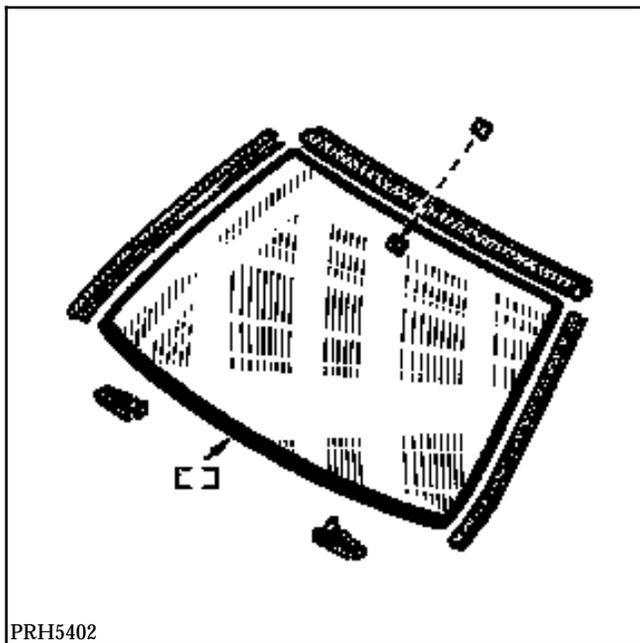
**When replacing the sunroof cassette, remove the blinds / metal support assembly taking care to avoid removing the blinds from their location on the metal support, otherwise the rewinding system will no longer operate correctly.**

#### REFITTING

**NOTE :** the mounting rivets for the metal support are supplied with the replacement kit from the Parts Department.

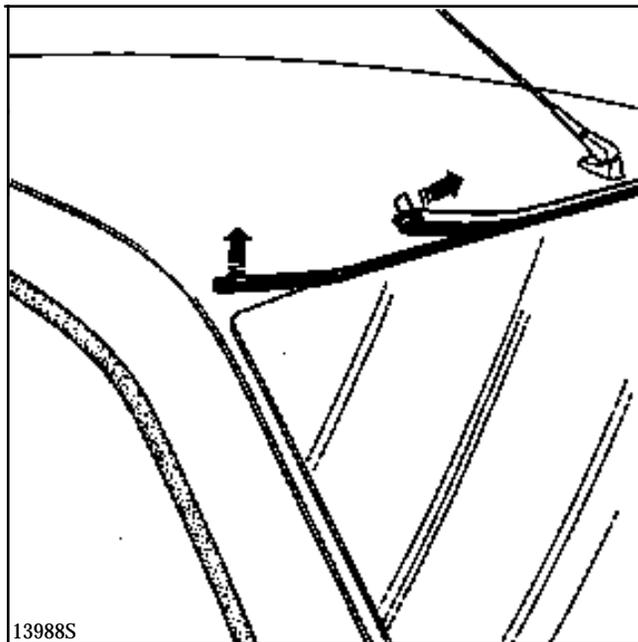
Refitting is the reverse of removal.

## REMOVAL



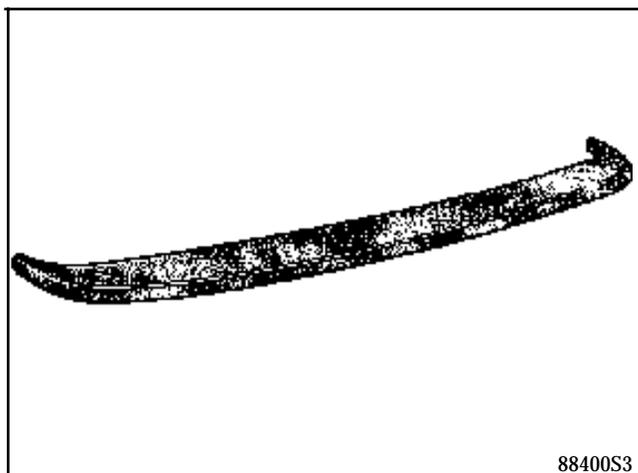
Remove:

- the two windscreen wiper arms using tool **Elé. 1294-01**,
- the two half scuttle panel grilles (see section 55-D),
- the retaining shims (A),
- the side trims (using unpicking pliers),



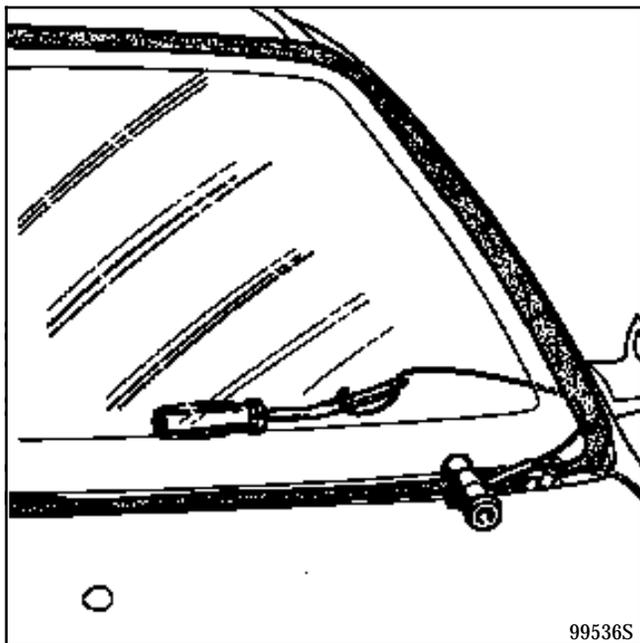
- the upper trim and its mounting.

Remove it using a small flat blade screwdriver.



Fit the dashboard protector, **Car. 1482**.

## CUTTING THE BONDED SEAL



Apply a strip of masking tape around the edge of the windscreen to protect the paintwork where the wire will pass.

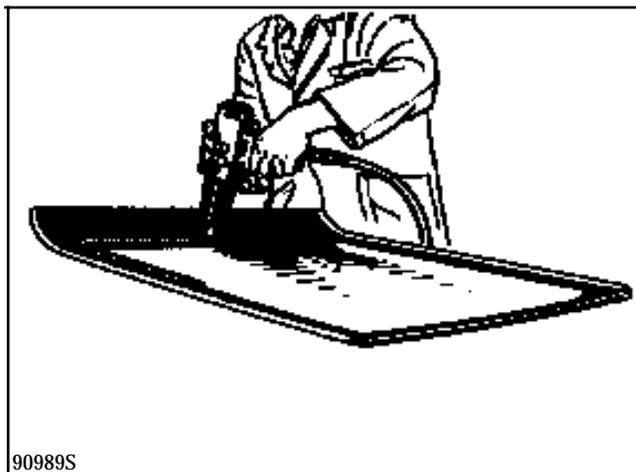
Fit the cutting wire using the threading tool (see section 50-B).

Fit the picking tool and the pulling handle.

The pneumatic window cutting tool may also be used (see section 50-B).

Refer to the corresponding technical note for information on the tool and how to use it correctly.

## BONDING AND FITTING THE WINDSCREEN



Preparation of the bonding areas is detailed in the general method for bonding windows, found in Technical Note n° 371A.

Fit:

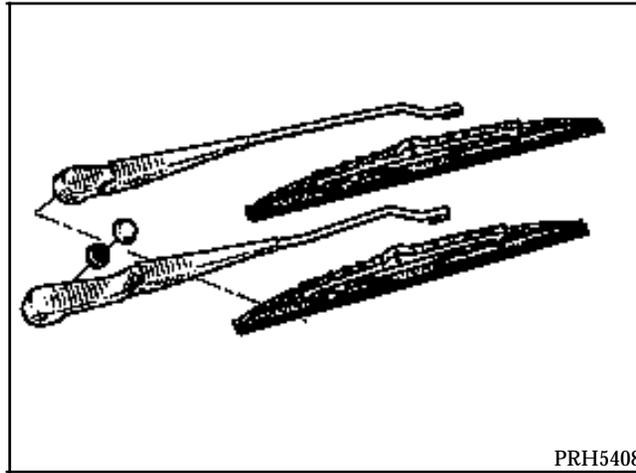
- the new upper trim and its mounting, correctly fitted, on the windscreen,
- the lower retaining shims.

Just after applying the mastic to the windscreen, offer it up above its location in the windscreen aperture and centre it by setting the outer trim against the upper edge (at the level of the roof panel).

Lay the windscreen down into position ensuring that the lower section is in contact with the retaining shims.

Refit the side trims and the other parts removed beforehand.

REFITTING THE WIPER ARMS

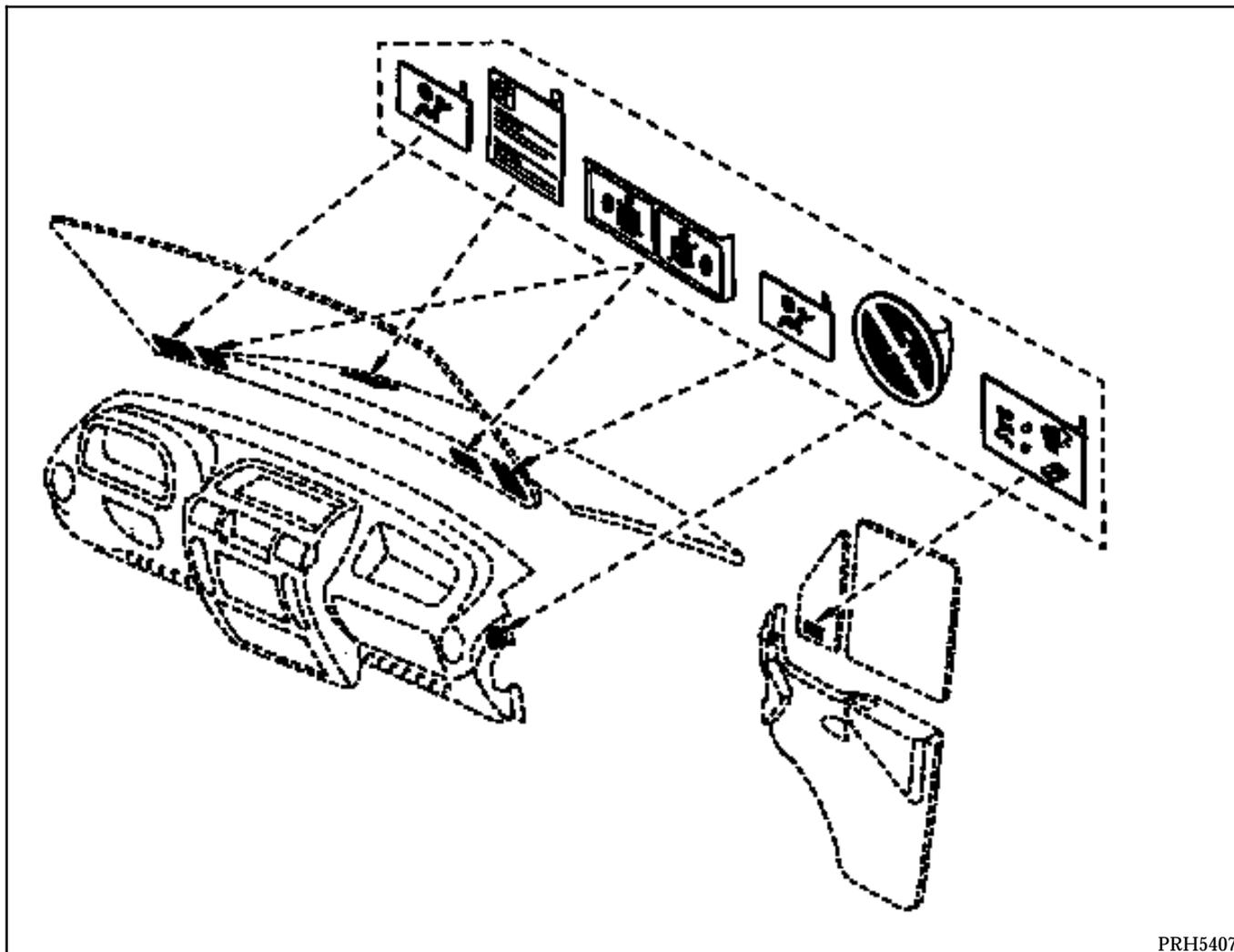


Ensure the motor is in the park position before fitting the wiper arms.

Clean the splines on the wiper arm pins using a wire brush.

Refit the wiper arms and refit new nuts, torque tightened to **18 N.m** ( $\pm 15\%$ ) using a torque wrench.

KIT OF AIR BAG LABELS



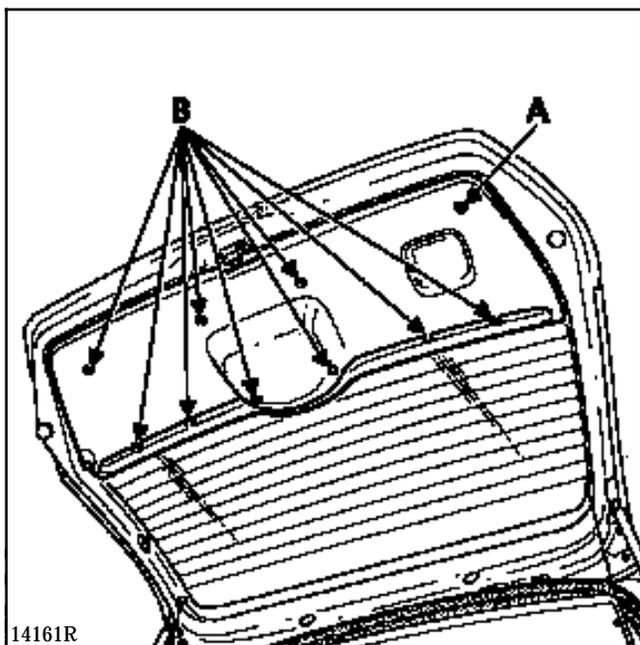
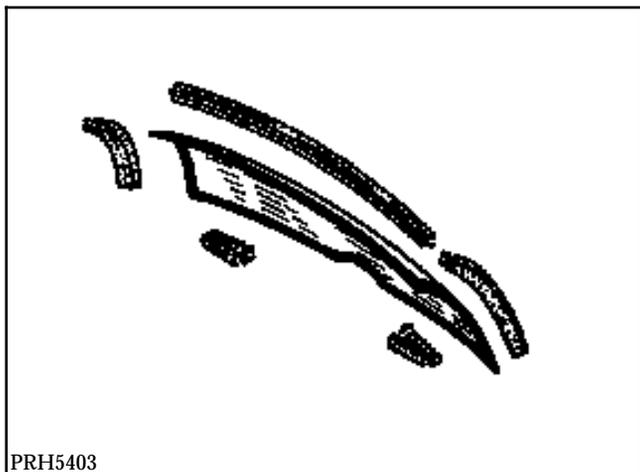
PRH5407

A vehicle fitted with an air bag on the driver's side is identified by a label located in the lower corner of the windscreen on the driver's side.

When a passenger air bag is fitted, a second label is located in the lower corner of the windscreen on the passenger side and the driver's side.

This kit of labels is available under Part Number 77 01 205 442.

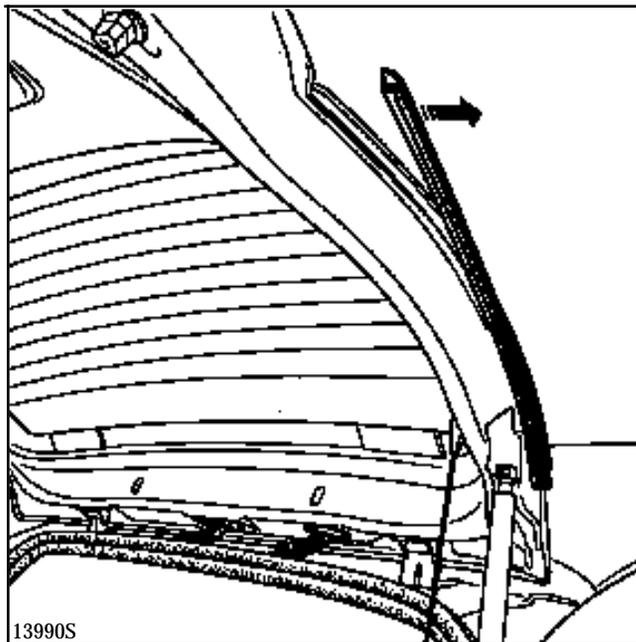
REMOVAL



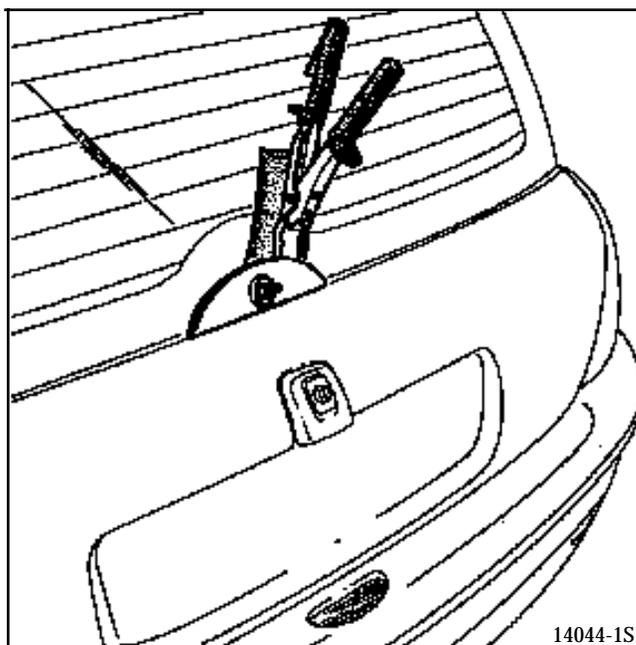
Remove the wiper arm using tool Elé. 1294-01.

Tailgate lining:

- remove the mounting bolt (A),
- using unpicking pliers, remove the lining at (B),
- remove the lining.

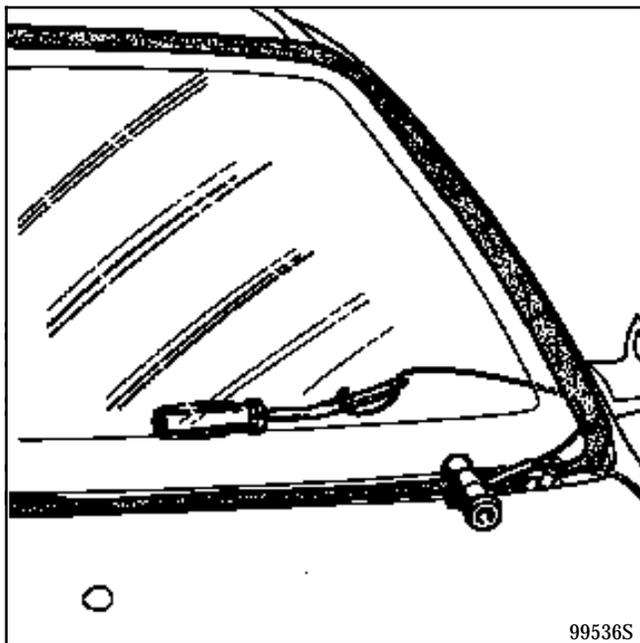


Remove the side trims.



Using unpicking pliers, unclip the cover for the wiper motor shaft mounting nut, taking care to insert a cloth between the glass and the base of the pliers.

### CUTTING THE BONDED SEAL



Apply a strip of masking tape around the edge of the screen to protect the paintwork where the wire will pass.

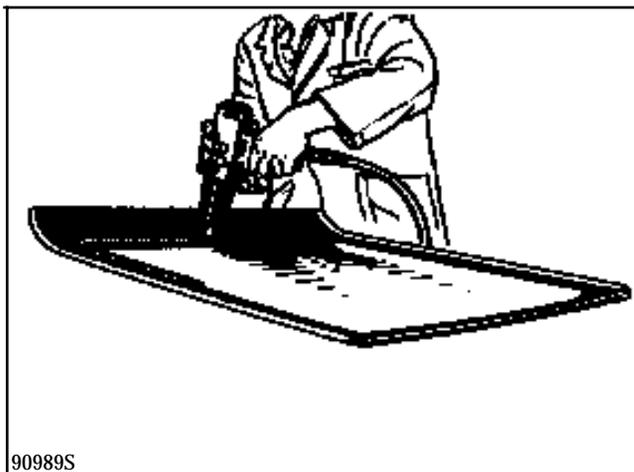
Fit the cutting wire using the threading tool (see section 50-B).

Fit the picking tool and the pulling handle.

The pneumatic window cutting tool may also be used (see section 50-B).

Refer to the corresponding technical note for information on the tool and how to use it correctly.

### BONDING AND FITTING THE WINDOW

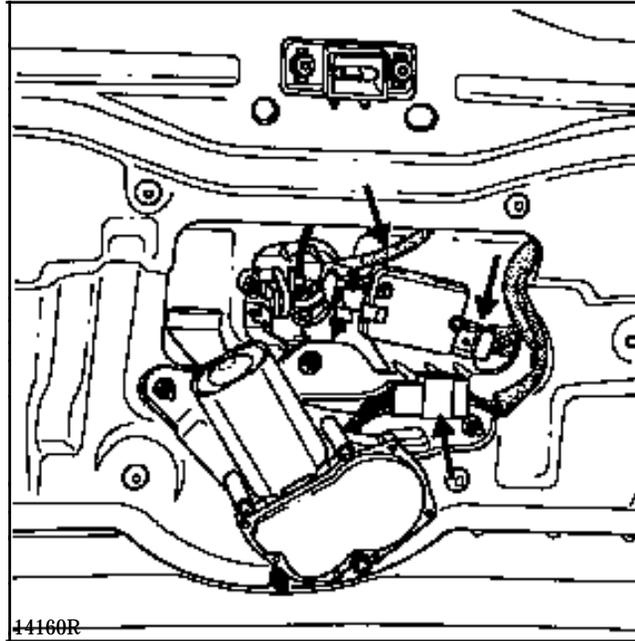


Preparation of the bonding areas is detailed in the general method for bonding windows, found in Technical Note n° 371A.

Fit the new side trims to the tailgate.

**NOTE :** these trims contain adjusting shims which ensure the window is flush with the rear wing panels.

Replace the blanking covers fitted under the screen which will have been damaged during the cutting operation (these blanking covers are supplied with the replacement screen kit from the Parts Department).

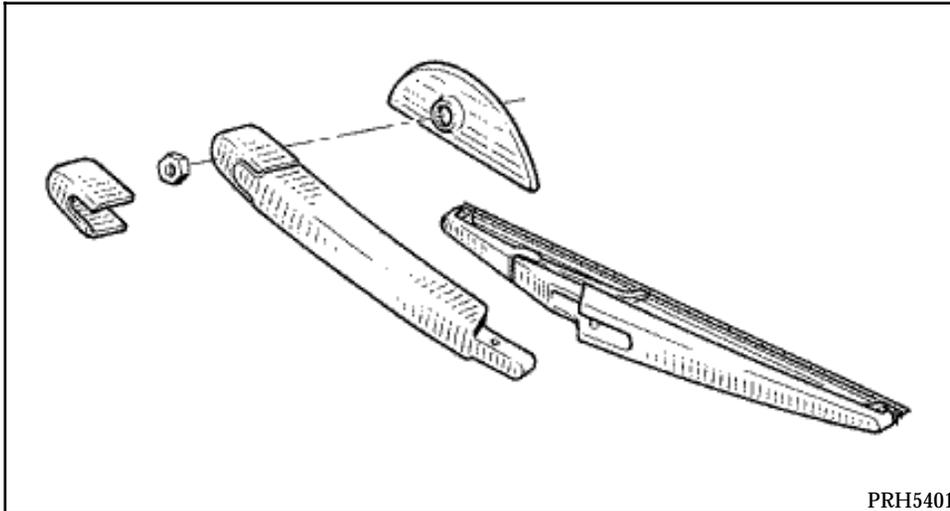


Just after applying the mastic to the screen, offer it up above its location in the tailgate aperture and centre it by setting pin (C) in its position on the edge of the tailgate panel.

Lay the screen down into position ensuring that the sides sit correctly on the adjusting shims.

Refit the wiper shaft mounting nut cover and the other parts removed beforehand.

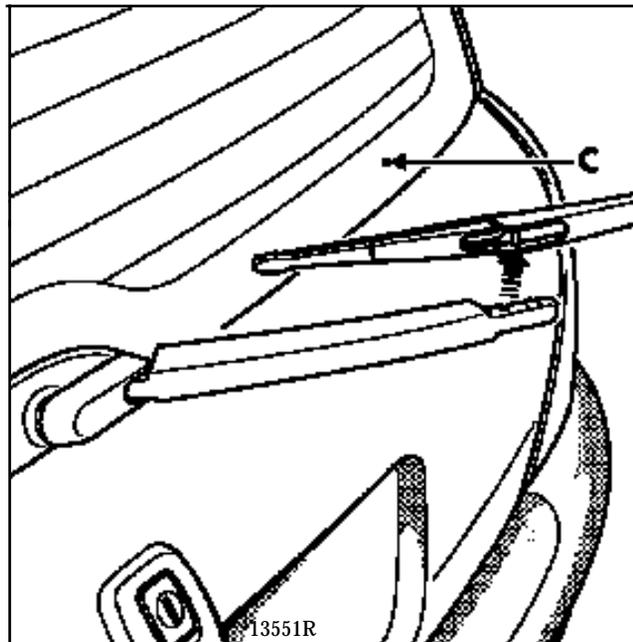
### REFITTING THE WIPER ARM



PRH5401

Ensure the motor is in the park position before fitting the wiper arm.

Clean the splines on the wiper arm pin using a wire brush.

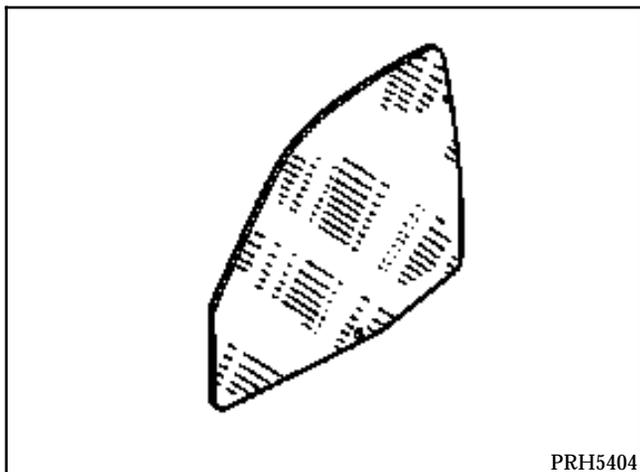


13551R

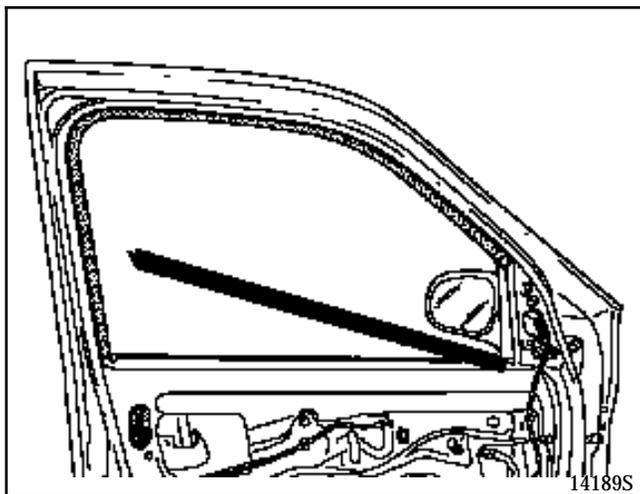
Refit the wiper arm and position it on the screen using the reference mark (C) on the coloured area.

Refit a new nut, torque tightened to **10 N.m** ( $\pm 20\%$ ) using a torque wrench.

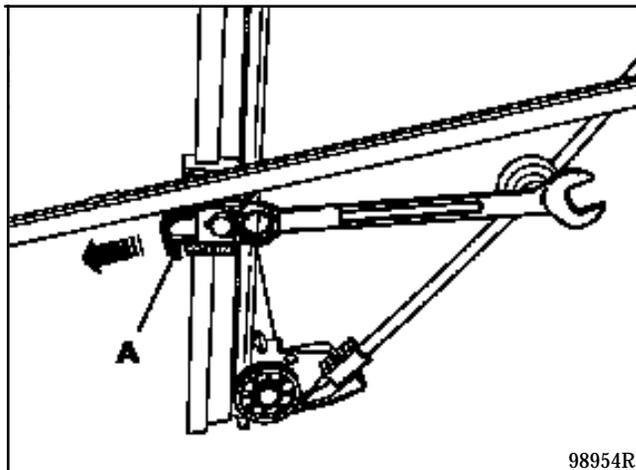
REMOVAL



Remove the front door lining (see 72A),

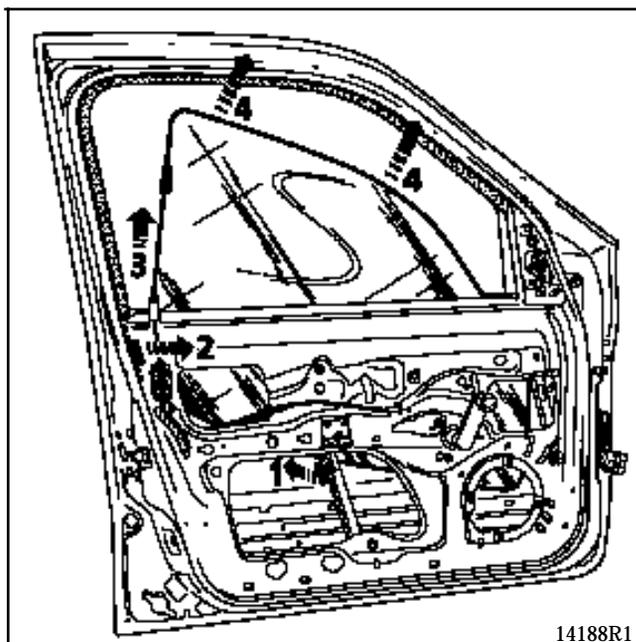


Remove the interior weatherstrip.



Lower the window to reach the window winder guide carriage.

Remove the mounting fork (A) and release the window from the carriage shaft (1) (see diagram below).



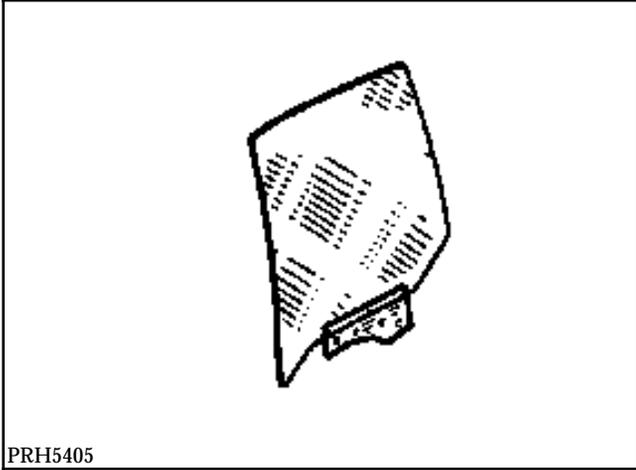
Lay the window down in the bottom of the box section of the door and release the window pad from the window guide.

In this position only (2), remove the window from the door box section (3) and (4).

REFITTING

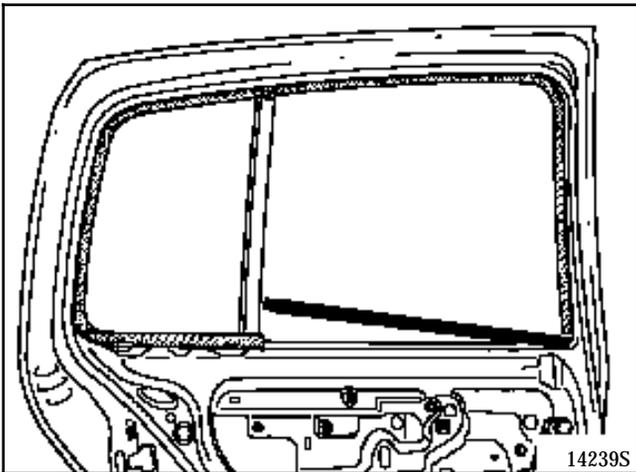
Refitting is the reverse of removal.

### REMOVAL

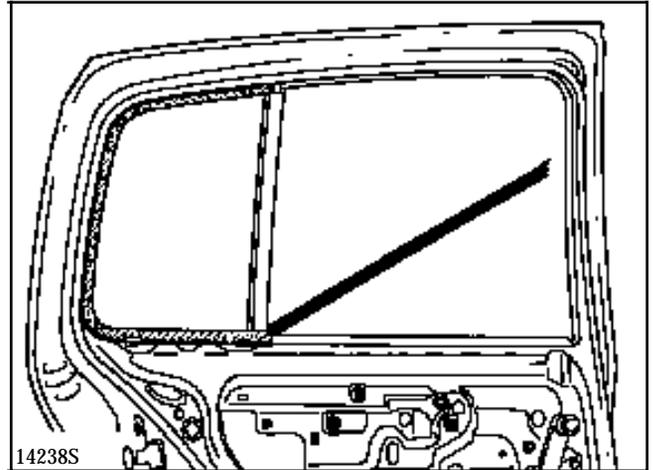


Remove:

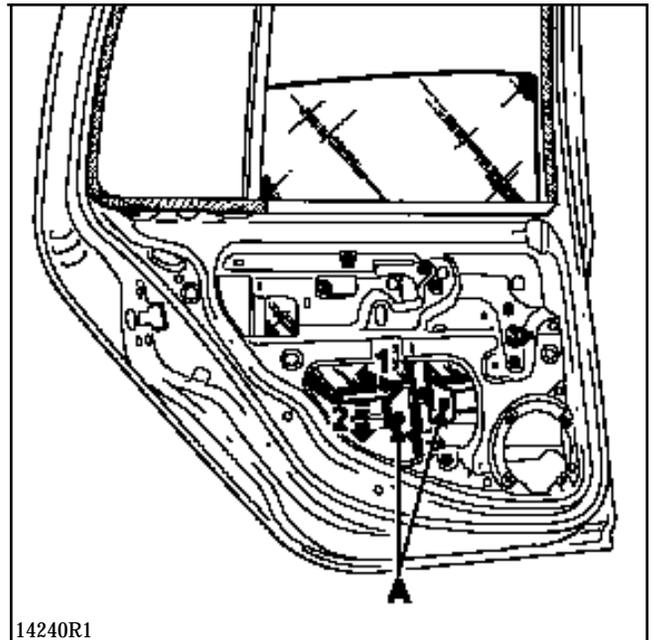
- the rear door lining (see section 72-B),



- the interior weatherstrip,



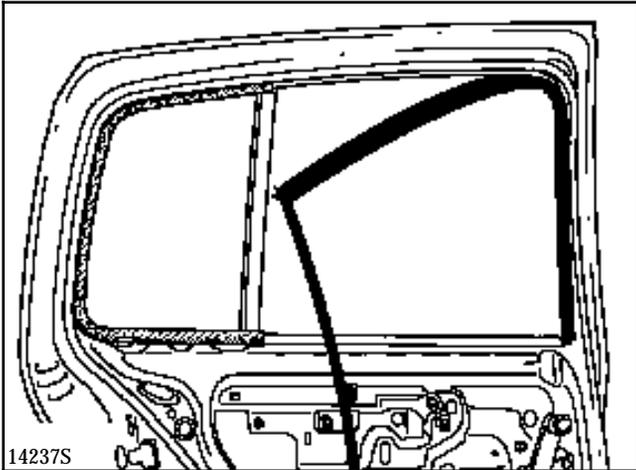
- the exterior weatherstrip.



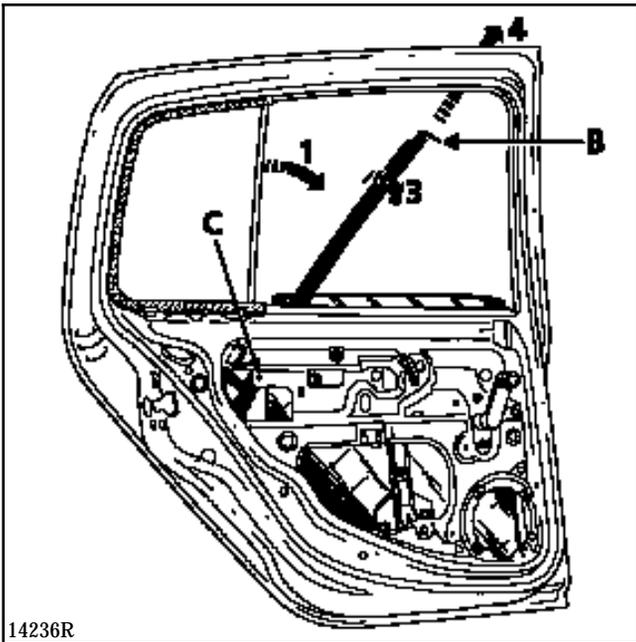
3/4 lower the window .

Remove the two mounting bolts (A).

Lower the window to the bottom of the door box section (1) and (2).



Release the window guide.

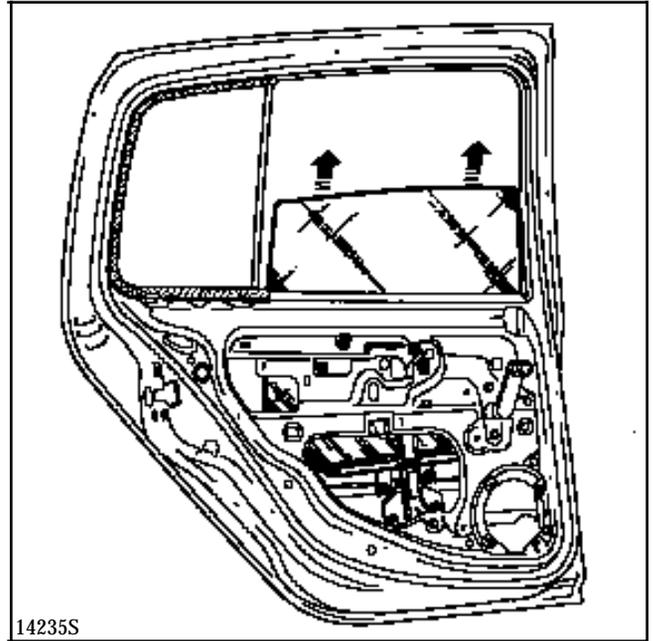


Remove:

- the upper mounting bolt (B) from the fixed pillar,
- the lower mounting nut (C) from the fixed pillar.

Tilt the pillar forwards (1) and release the welded stud (2).

Turn the pillar a quarter turn (3), so it may be removed from the box section (4).



Remove the window from the door box section in the same manner as shown on the diagram above.

### REFITTING

When refitting the mounting bolts (A) (see previous page), before tightening them, return the window to the fully closed position.

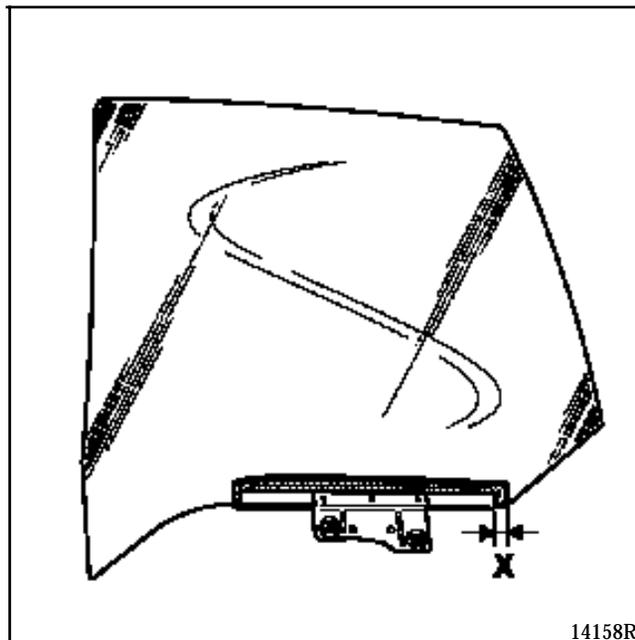
Tighten the bolts by passing a pipe wrench through the openings in the box section, which are designed for this purpose.

The window is then correctly positioned in relation to the guide carriage.

To refit the window guide, follow the method described in section 66-C.

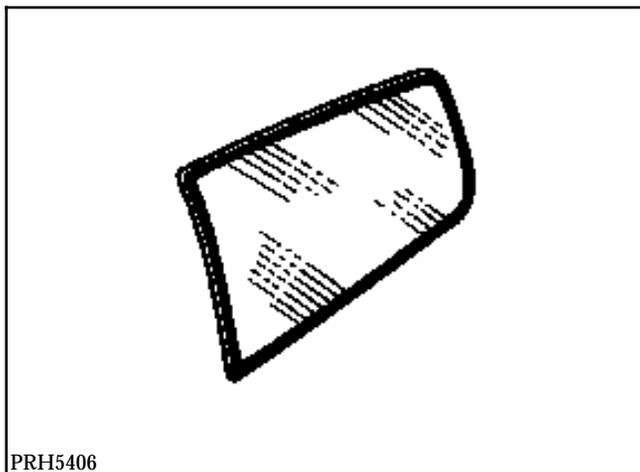
Take care to ensure the fixed pillar is correctly fitted at the fixed window frame and ensure that the window guide lip is correctly positioned covering the the fixed pillar on the sliding window side.

### FITTING THE BOTTOM OF THE WINDOW



Observe dimension (X) of 18 mm to ensure the bottom of the window is correctly fitted.

### REMOVAL

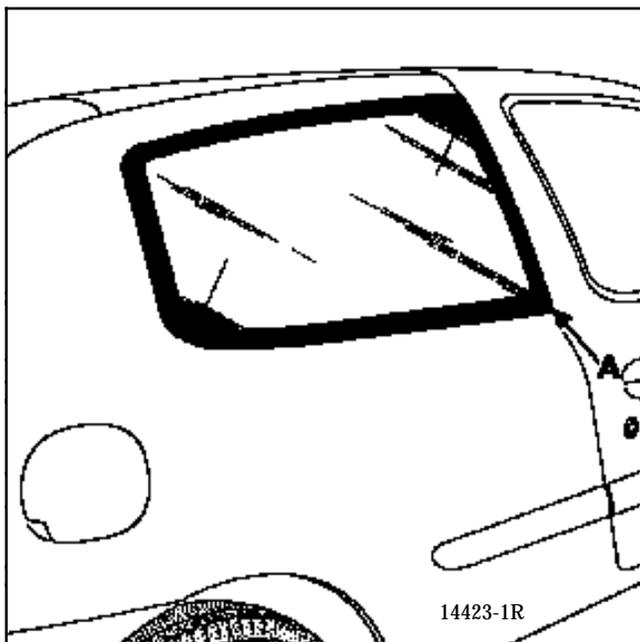


**IMPORTANT:** the rear quarter panel window includes a trim strip around its edge. This strip is not available separately from the Parts Department.

If the the window is to be removed and refitted, follow the method on the following page to avoid damaging the seal when the window is removed.

Remove:

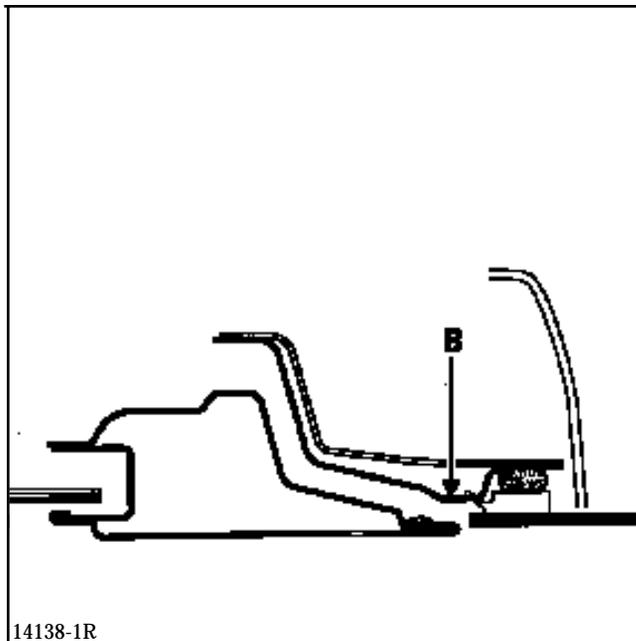
- the centre pillar lining (see section 71-E),
- the centre pillar and rear quarter panel lower lining (see section 71-D),
- the rear shelf (see section 74-A).



### REPLACING THE WINDOW - CUTTING THE BONDED SEAL

Apply a strip of masking tape around the edge of the screen to protect the paintwork where the wire will pass.

Fit the cutting wire using the threading tool (see section 50-B).



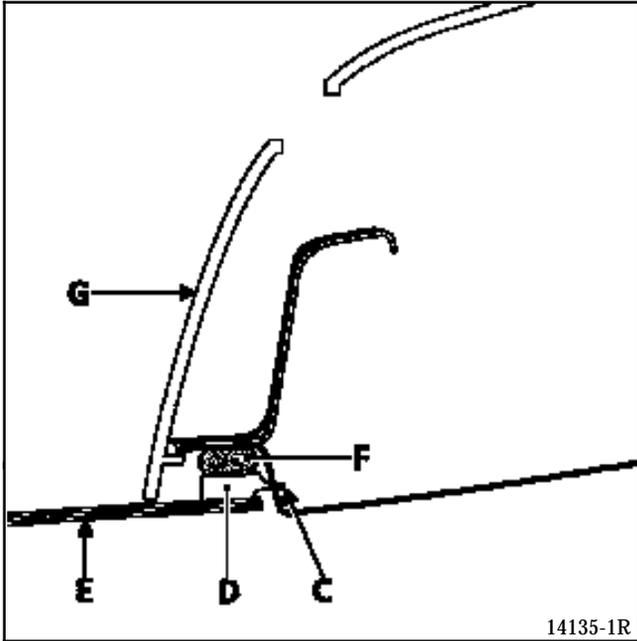
**The wire may only be inserted in corner (A) of the window. The centre pillar forms a shoulder (B) which prevents the wire from being fitted elsewhere in this area.**

Fit the picking tool and the pulling handle.

Cut the bead of adhesive.

The pneumatic window cutting tool may also be used (see section 50-B).

Refer to Technical Note 414A for information on the tool and how to use it correctly.



14135-1R

### REMOVING - REFITTING THE WINDOW

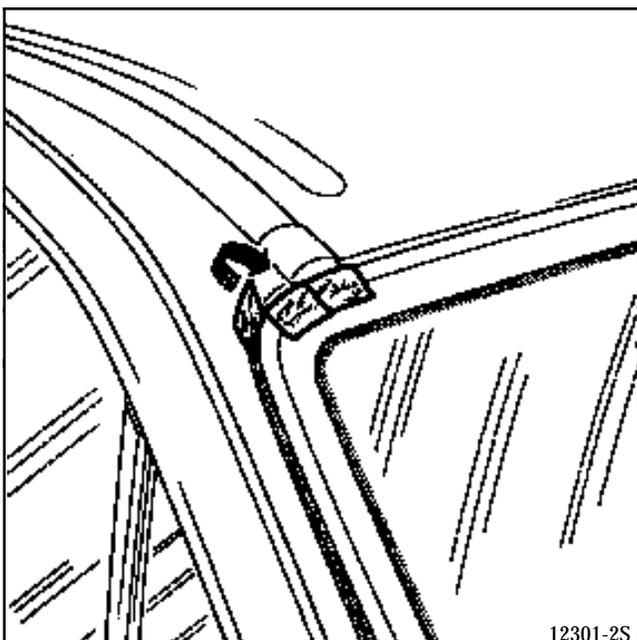
The window has a trim strip (C) which is part of the moulding (D) of the window (E).

Bead of adhesive (F).

Interior lining (G).

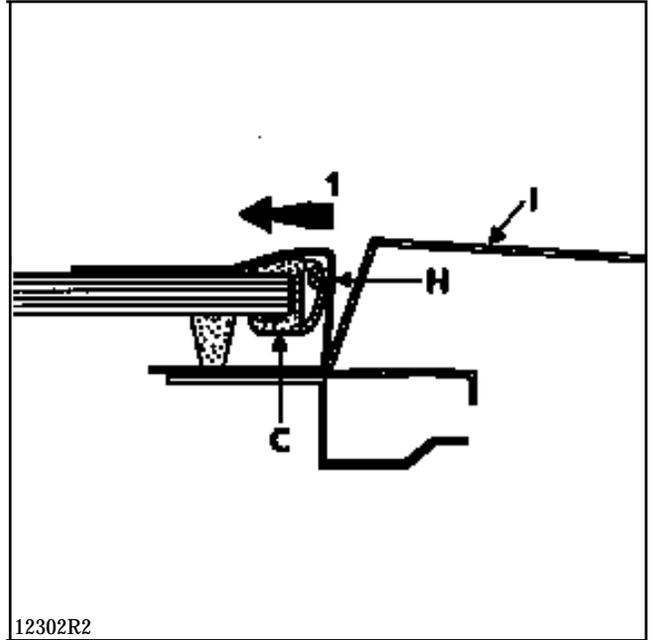
This lining has a visible lip (C) around the edge of the window.

To preserve this trim, when the cutting wire passes by, the following precautions must be taken:



12301-2S

Using a strip of masking tape with a **10 mm** rigid bar, protect the flexible lip of the trim around the edge of the glass.

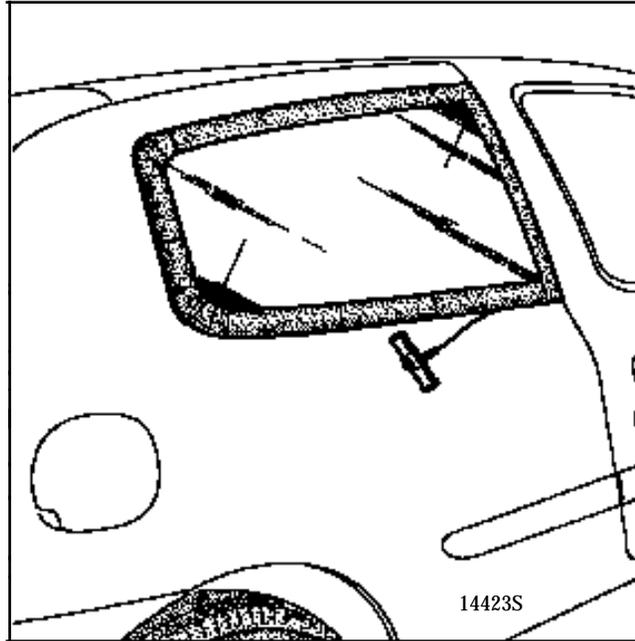


12302R2

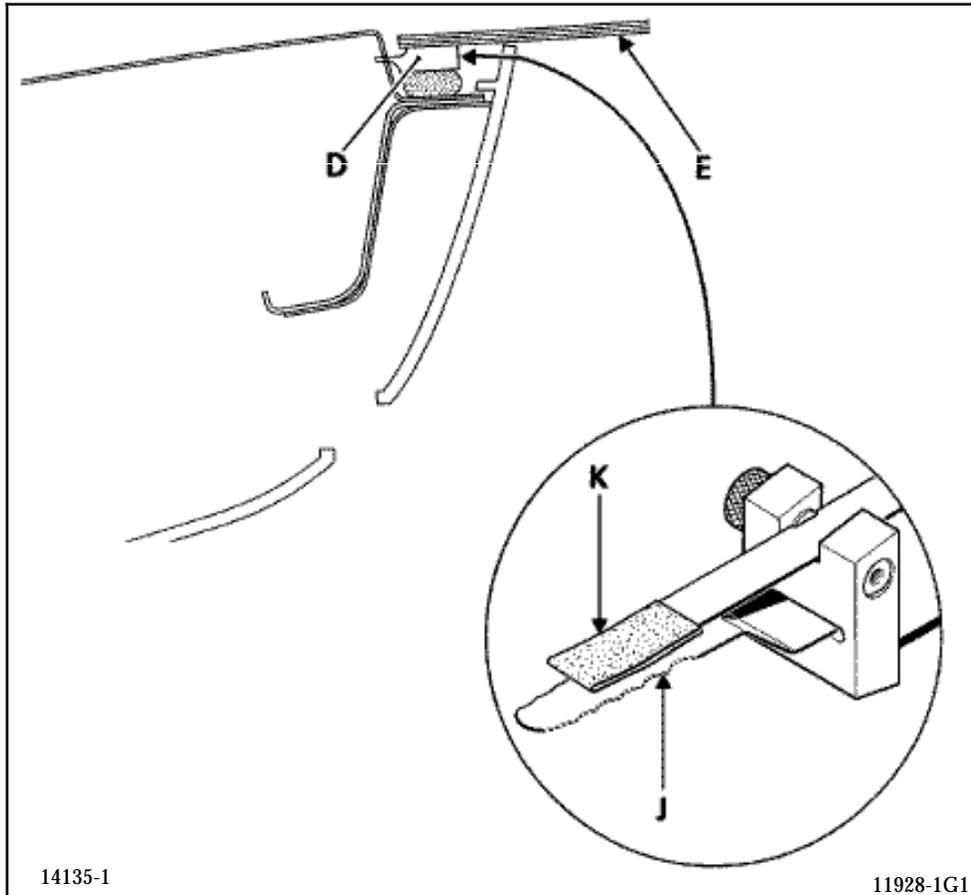
**NOTE :** insert the rigid plastic bar (H) holding the masking tape between the flexible lip (C) and painted metal of the wing panel (I).

**This ensures that the lip is moved back and held apart (1) when the cutting wire passes by.**

For details on fitting this type of tape, refer to Technical Note n° 419A.



Cut the adhesive bead by pulling the handle (on the outside) parallel to the edge of the glass to limit damage to the moulding.



**SPECIFIC CUTTING OF THE ADHESIVE BEAD USING THE PNEUMATIC WINDOW REMOVAL TOOL**

Reminder: to remove moulded windows such as this rear quarter panel window (E), use a special blade (J) WK24ZR which does not damage the moulding (C) of the window.

The sharp teeth on the blade are aligned towards the flange and the other side is slightly rounded to limit damage to the moulding.

The straight guide (K), to be fitted to the tool must rest on the glass to position the blade as close as possible to the flange during the operation to cut the adhesive bead.

**NOTE :**the end of the guide (K) must be covered with three pieces of velcro on each side of the guide (supplied in the kit) to ensure the blade is correctly positioned.

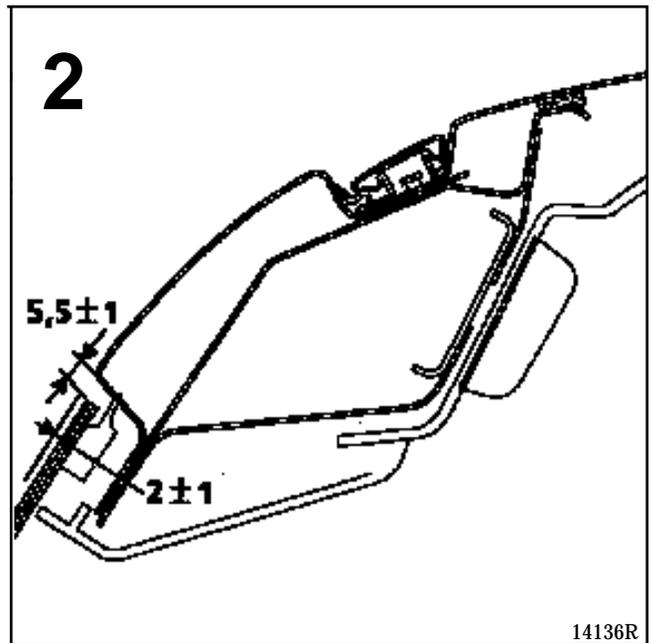
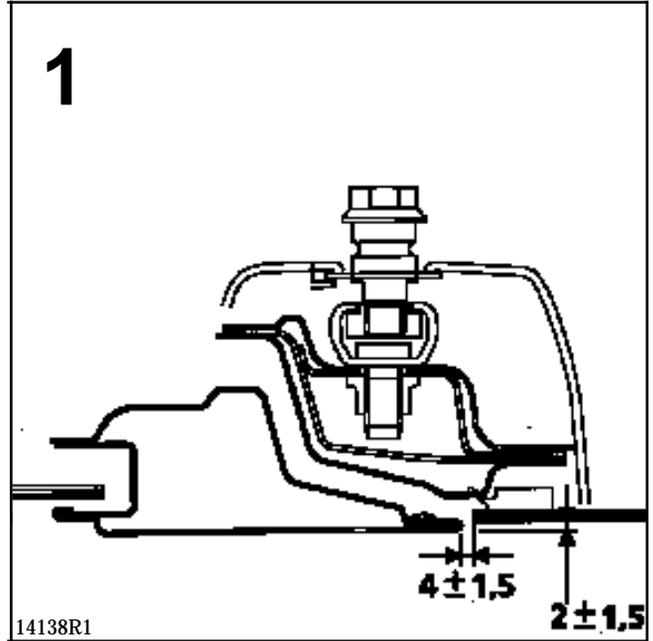
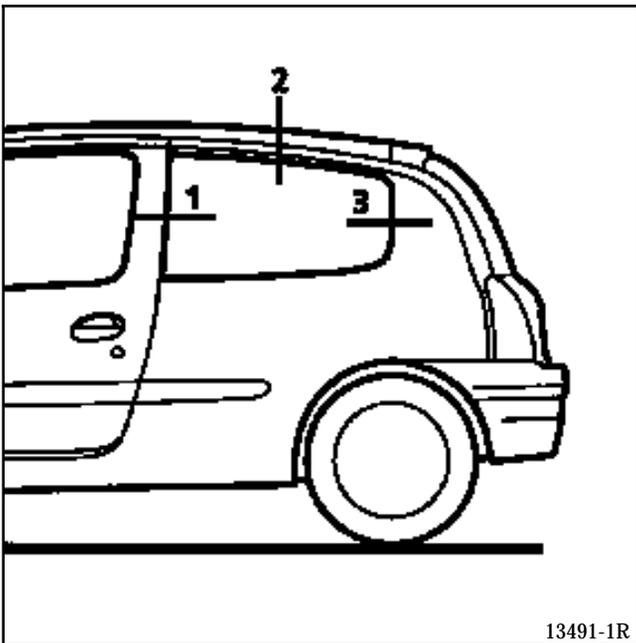
### BONDING AND FITTING THE REAR QUARTER PANEL WINDOW

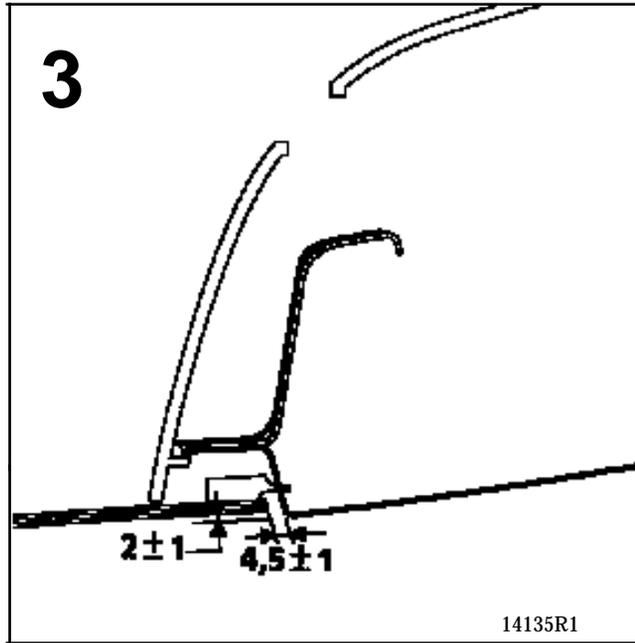


Preparation of the bonding areas is detailed in the general method for bonding windows, found in Technical Note n° 371A.

Just after applying the adhesive mastic to the window, offer it up above its location in the wing panel and centre it in relation to the following flush fitting information.

### FLUSH FITTING

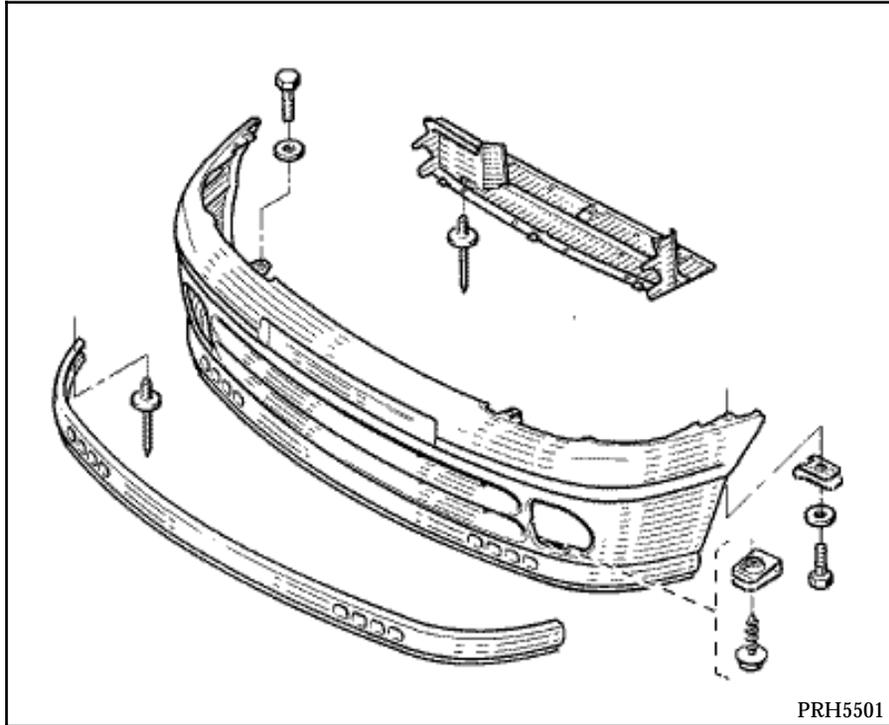




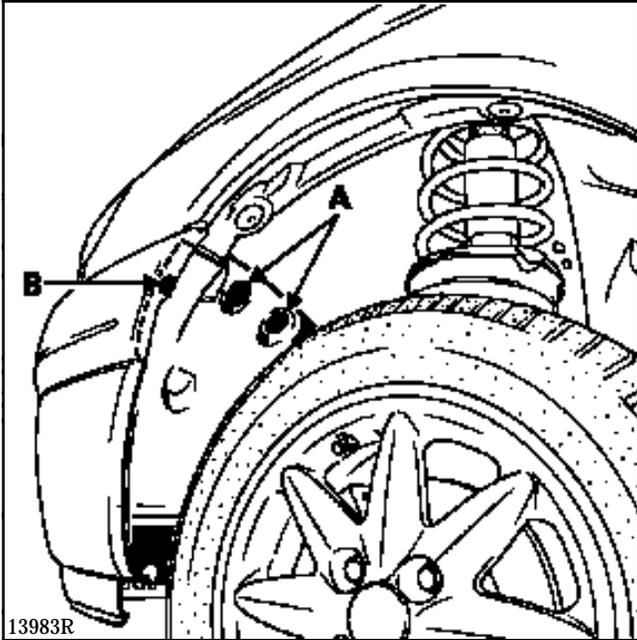
# EXTERIOR PROTECTION

## Front bumper

55 A

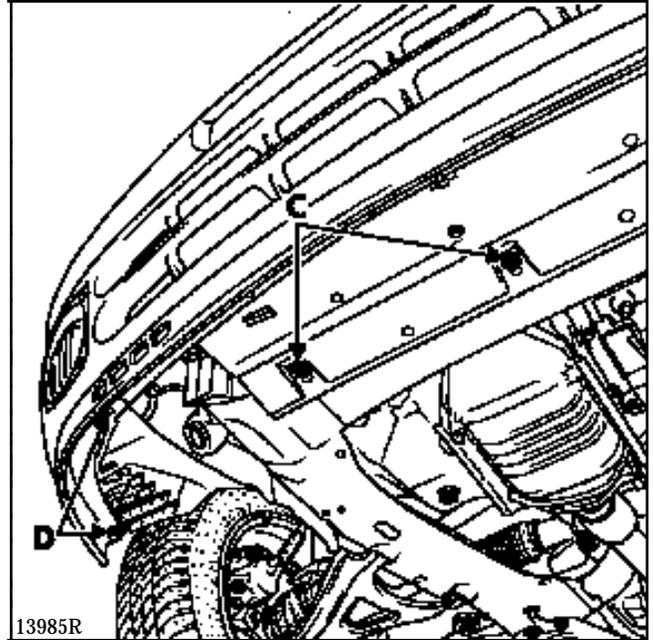


### REMOVAL



Remove:

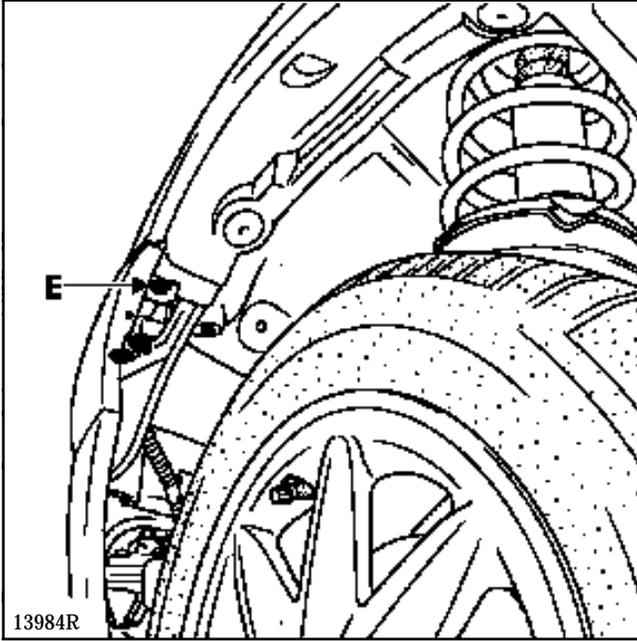
- the mudguard clips (A),
- the mounting bolt (B).



Remove:

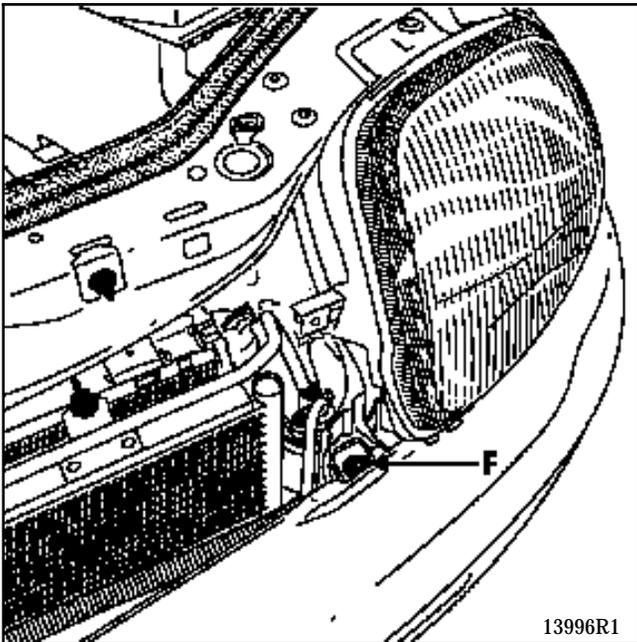
- the three mounting bolts of the shield (C),
- the lower mounting bolt (D) from the mudguard and the retaining clip (D).

Remove the mudguard from its location in the wheel arch.



Remove:

- the two side mounting bolts (E).

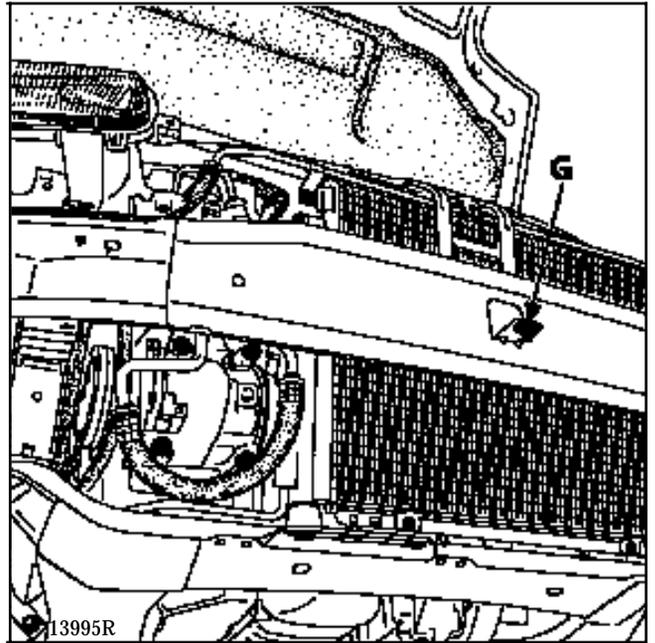


- the radiator grille (see section 55-C),
- the two mounting bolts (F).

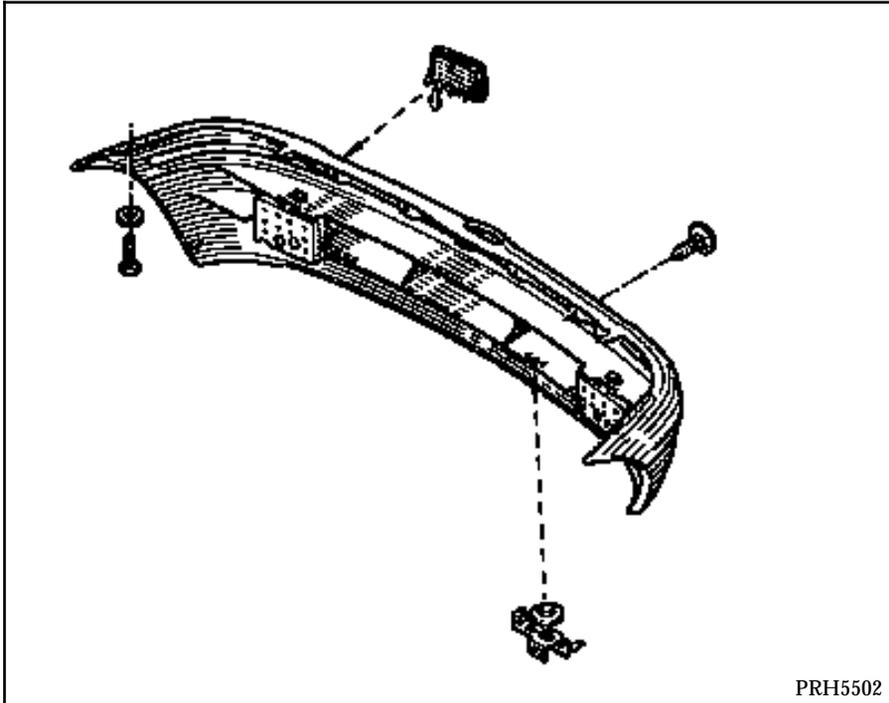
Disconnect the feed connector for the fog lights.

Remove the bumper from its location on the vehicle.

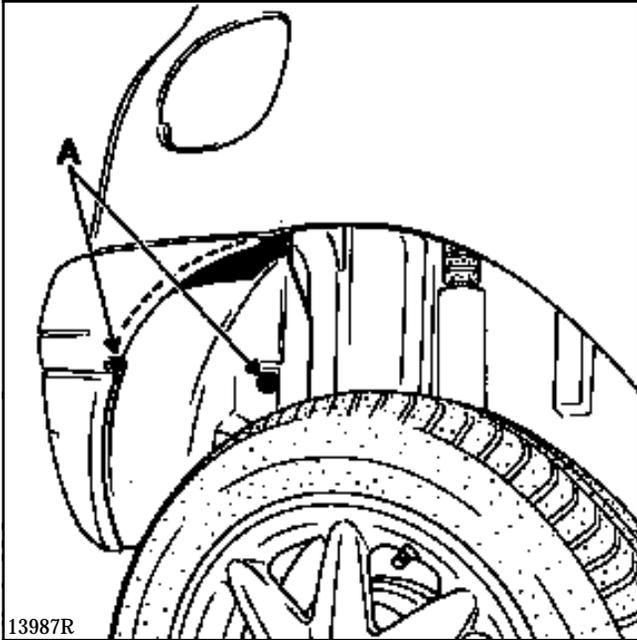
### REFITTING



Before refitting the bumper, ensure the centring device (G) is present which ensures the correct positioning of the bumper in relation to the nose of the vehicle.

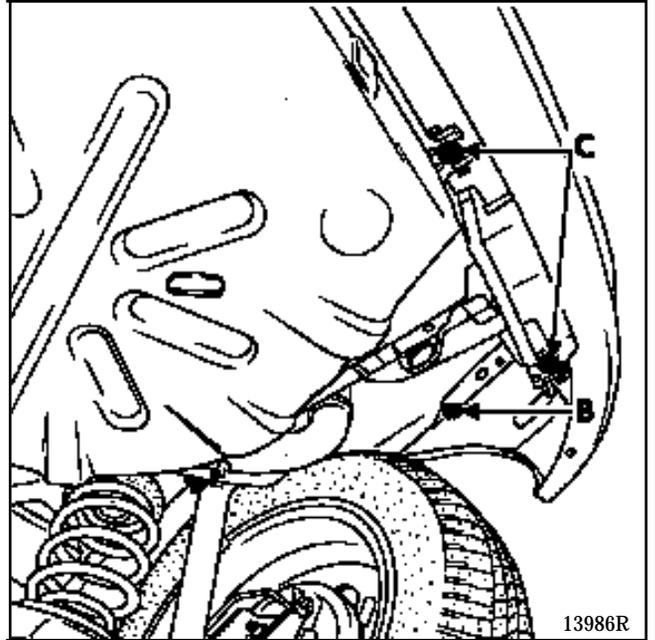


REMOVAL



Remove the mounting nut and bolt from the mudguard (A).

Remove the mudguard.



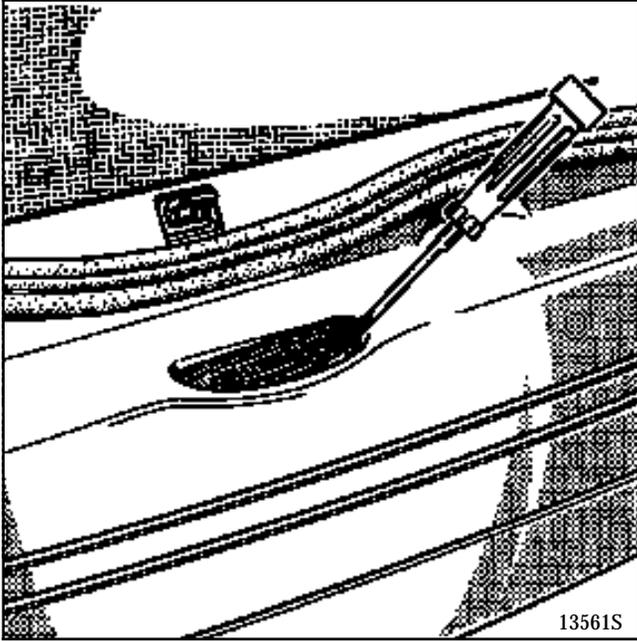
Remove:

- the two side mounting bolts (B),
- the lower mounting bolts (C).

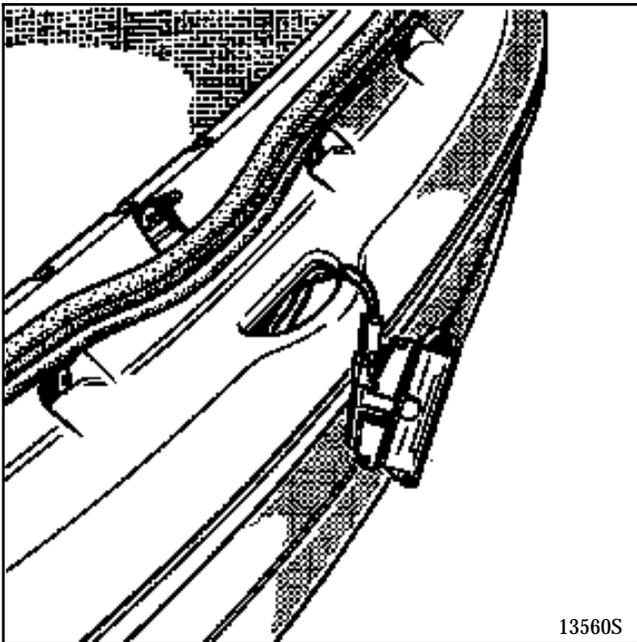
# EXTERIOR PROTECTION

## Rear bumper

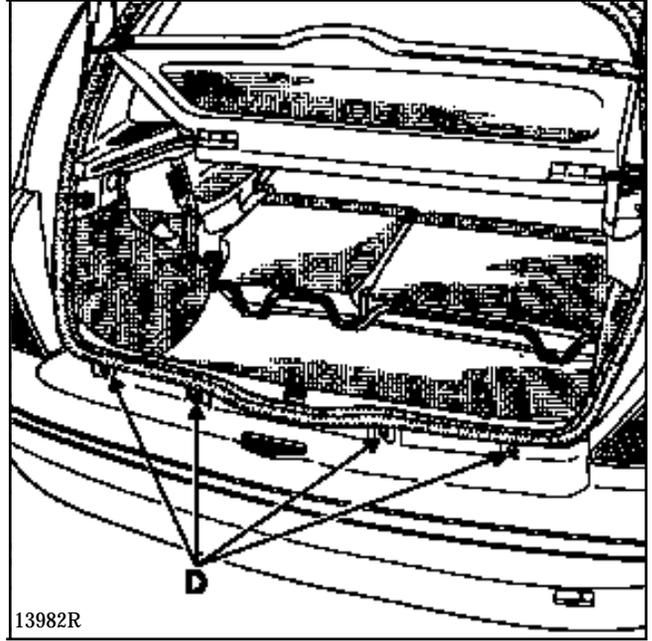
55 B



Using a flat blade screwdriver, unclip the number plate light.



Disconnect the light and remove it.

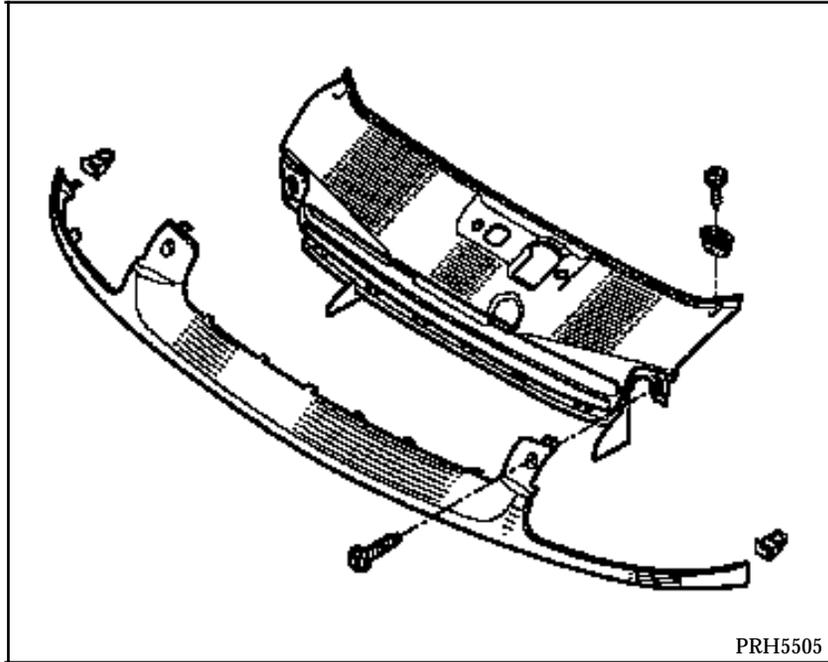


Remove the four upper mounting bolts (D) from the bumper and remove it.

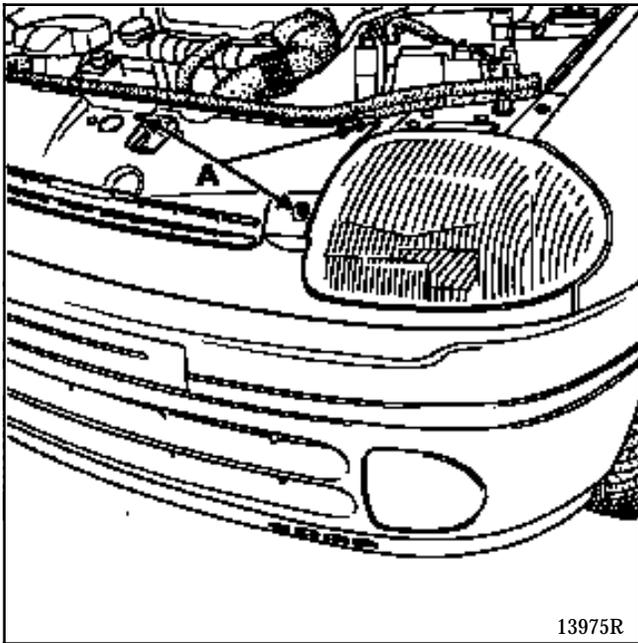
# EXTERIOR PROTECTION

## Radiator grille

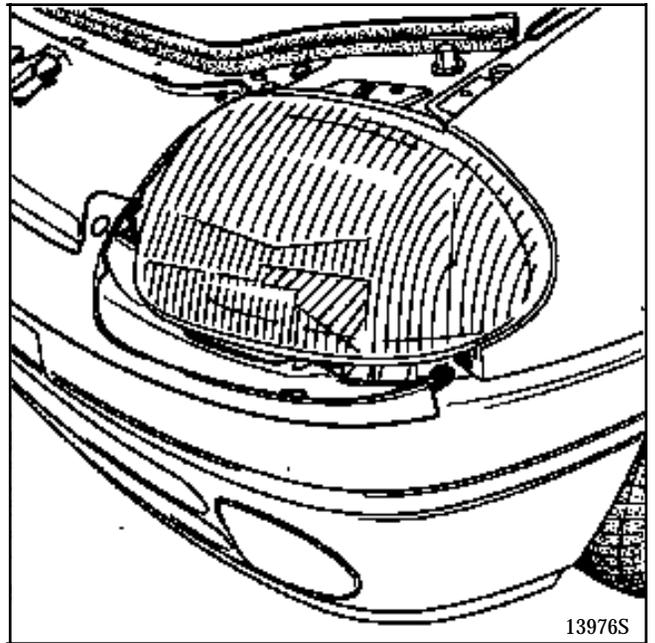
55 **C**



### REMOVAL

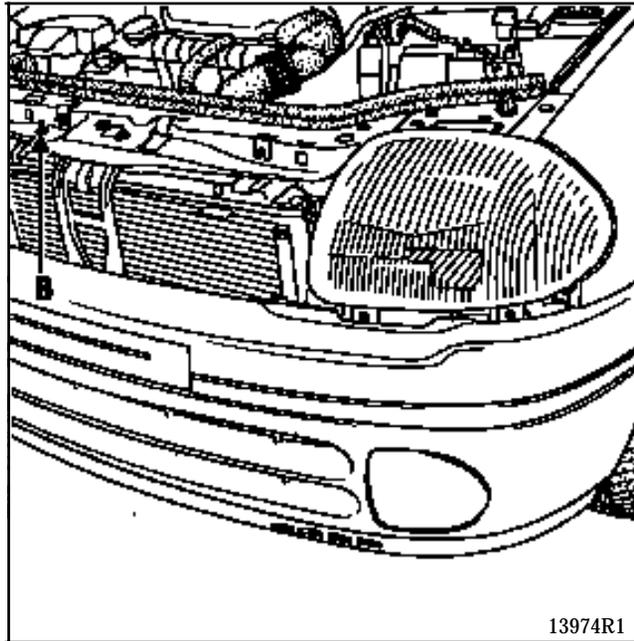


Remove the mounting bolts (A).

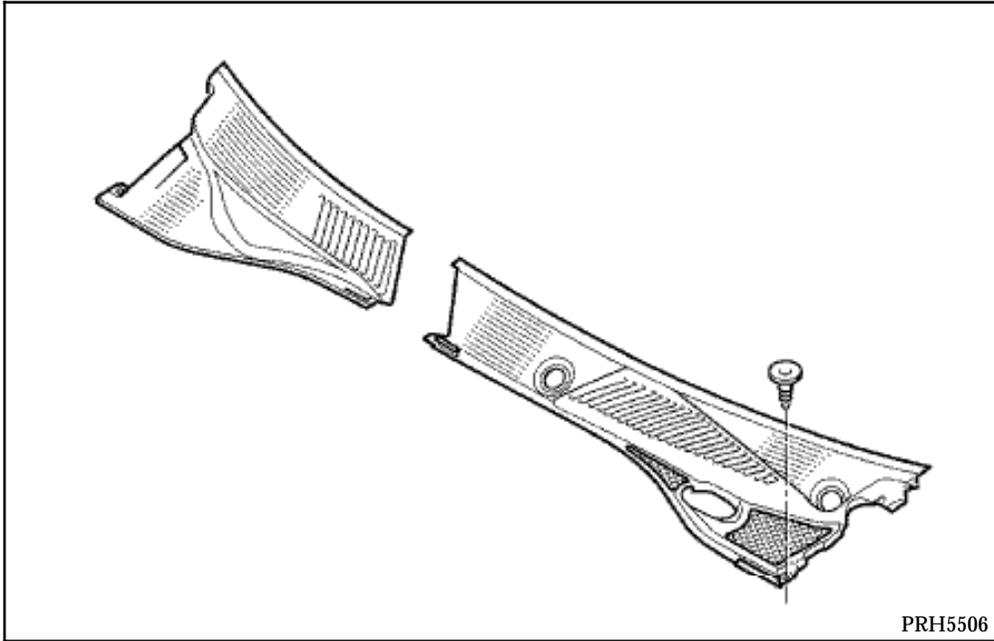


Unclip the radiator grille from its location on the front wing.

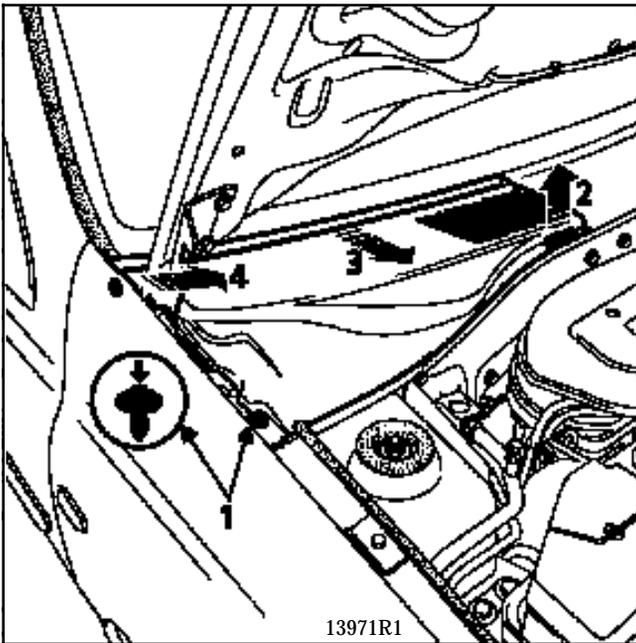
REFITTING



**NOTE :** the positioning of the radiator grille in relation to the upper cross member for the front panel is ensured by the centring device (B).



REMOVING THE LEFT HAND HALF GRILLE



**Removing the rivets (1) :**

Using a 10 or 20 Torx screwdriver, press the pin in the centre of the rivet and lower it by a maximum of 5 mm.

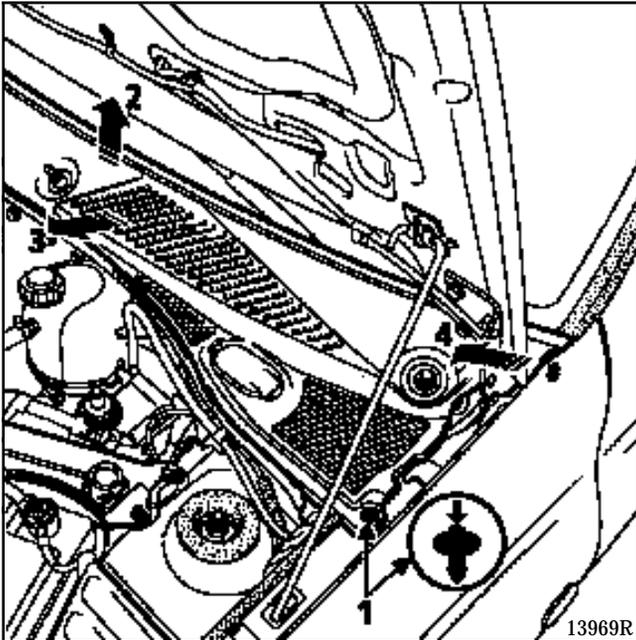
Remove the rivet from the scuttle panel grille.

Unclip the scuttle panel grille.(2).

Release:

- the retaining clips for the grille under the windscreen aperture cross member (3),
- the grille positioning pin in the corner of the wing (4).

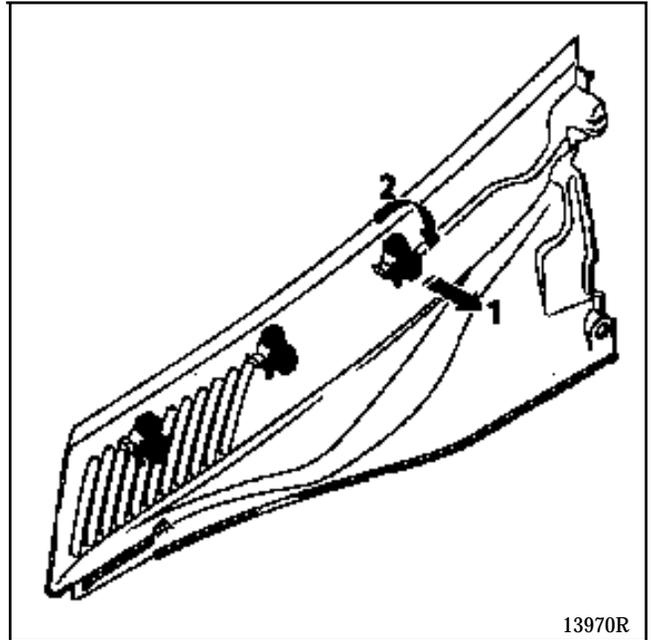
### REMOVING THE RIGHT HAND GRILLE



To remove the right hand half grille, the left hand half grille must be removed beforehand.

Follow the removal operations described above for the left hand grille.

### REMOVING AND REFITTING THE RETAINING CLIPS



Lift the anti-rotation clip (1) for the fastening clip and turn it (2) a quarter turn.

Remove it from the grille.

### REFITTING

**NOTE :** when refitting each scuttle panel grille, the rivet pin (1) must be correctly fitted before clipping the grille into position (see diagram opposite).

To do this, push the rivet pin upwards by more than **5 mm**.

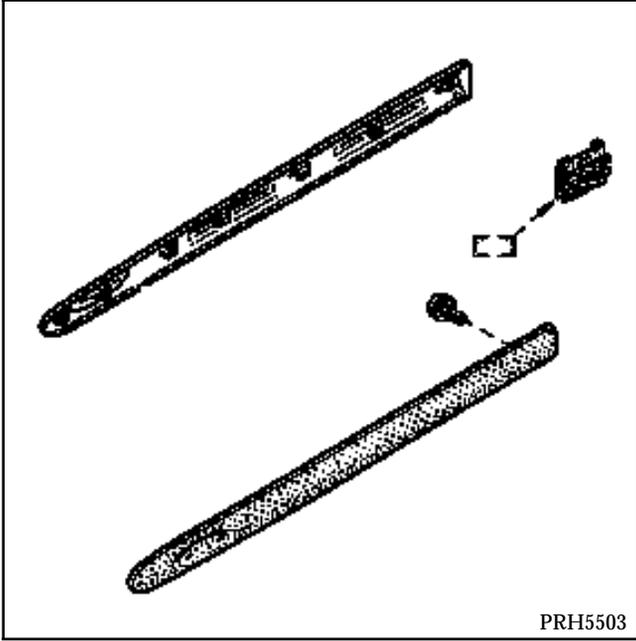
Fit the rivet and push the pin until it is level with the head of the rivet.

In this position the grille is clipped onto the cross member.

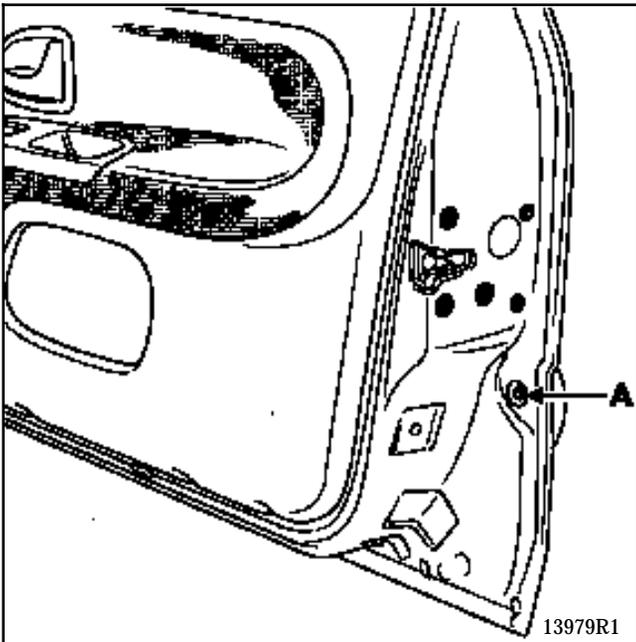
# EXTERIOR PROTECTION

## Side protection strips

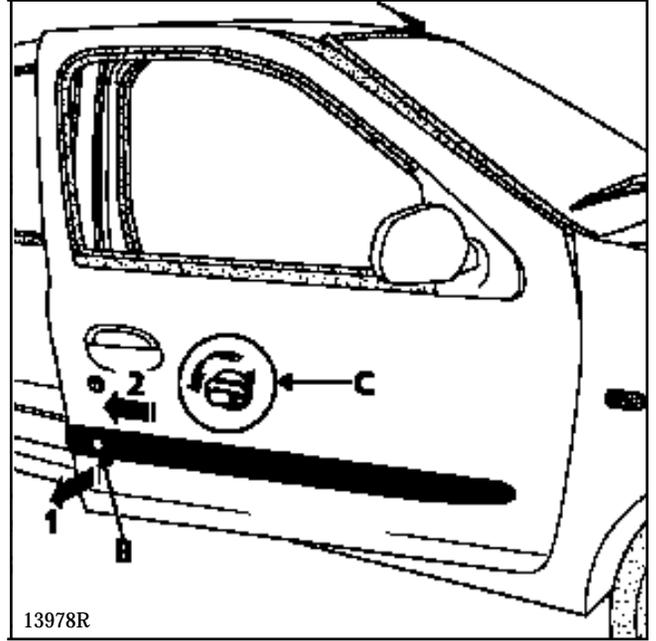
55 E



### REMOVING THE FRONT DOOR STRIP



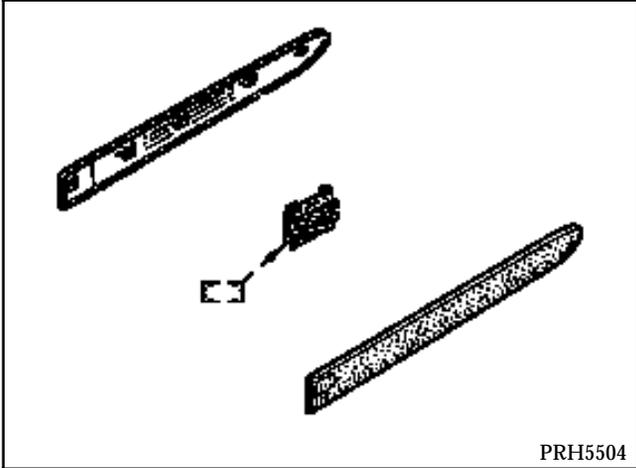
Removing the blanking cover (A) and the mounting bolt for the strip on the door panel.



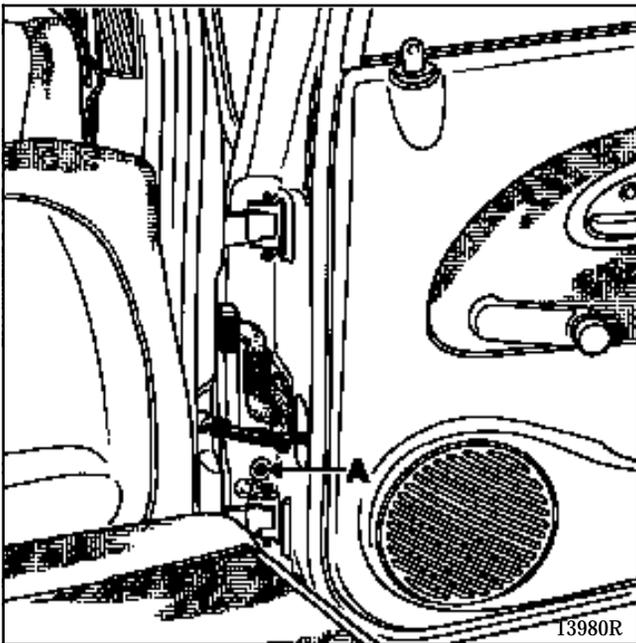
Move the end of the strip to one side (1) to release the pin (B).

Slide the strip backwards (2) to release the clips (C).

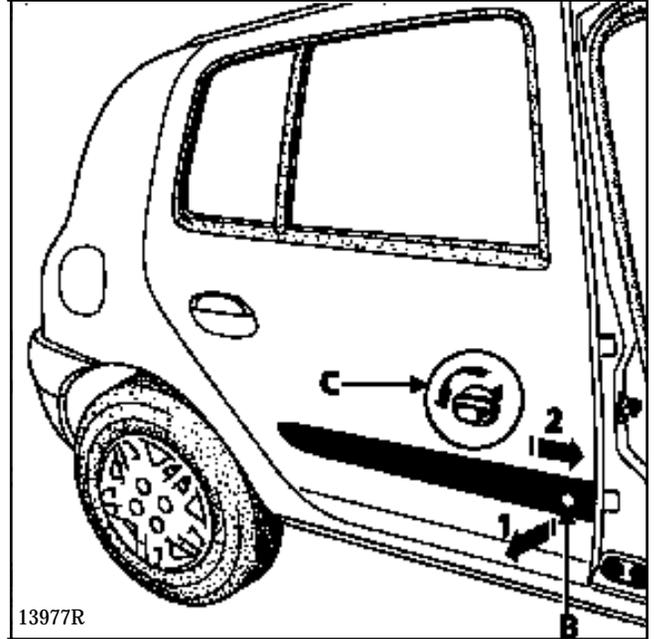
To remove the retaining clips (C), turn each clip a quarter turn and remove them from their location in the door panel.



REMOVING THE REAR DOOR STRIP



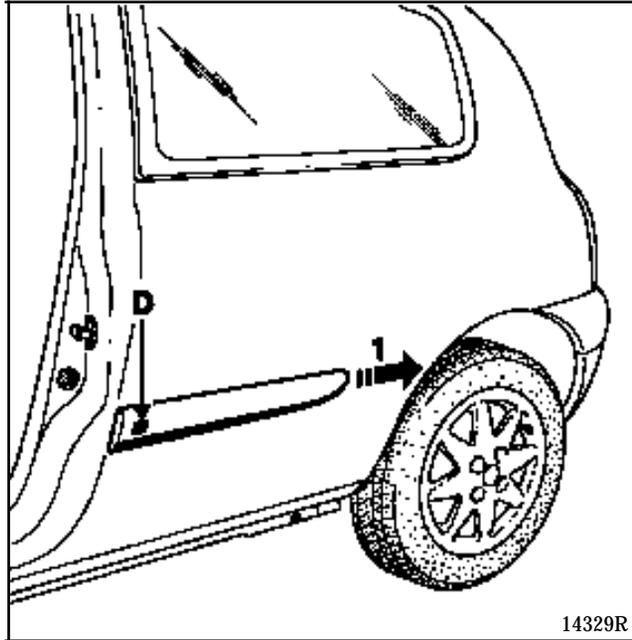
Remove the blanking cover (A) and the mounting bolt for the strip on the door panel.



Move the end of the strip to one side (1) to release the pin (B).

Slide the strip forwards (2) to release the clips (C).

To remove the retaining clips (C), turn each clip a quarter turn and remove them from their location in the door panel.

**REMOVING THE WING PANEL STRIP  
(3 DOOR)**

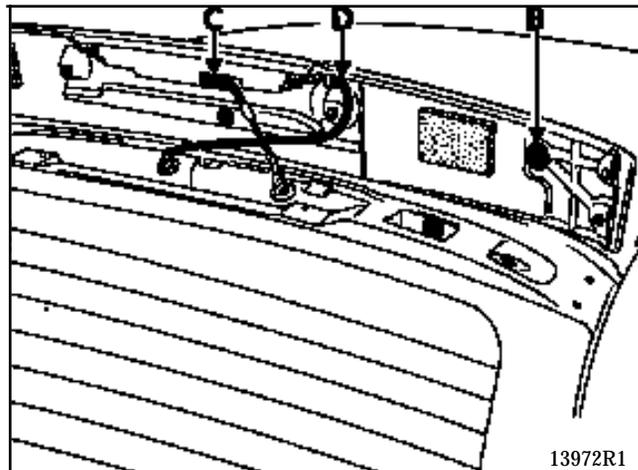
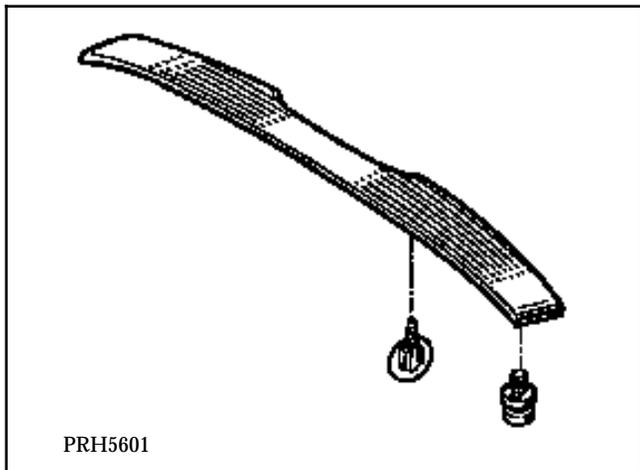
Using a wooden or teflon block, slide the protective strip (1) backwards to release it.

**NOTE :** clip (D) ensures the strip is correctly position in the X dimension. This clip must be renewed before the strip is refitted.

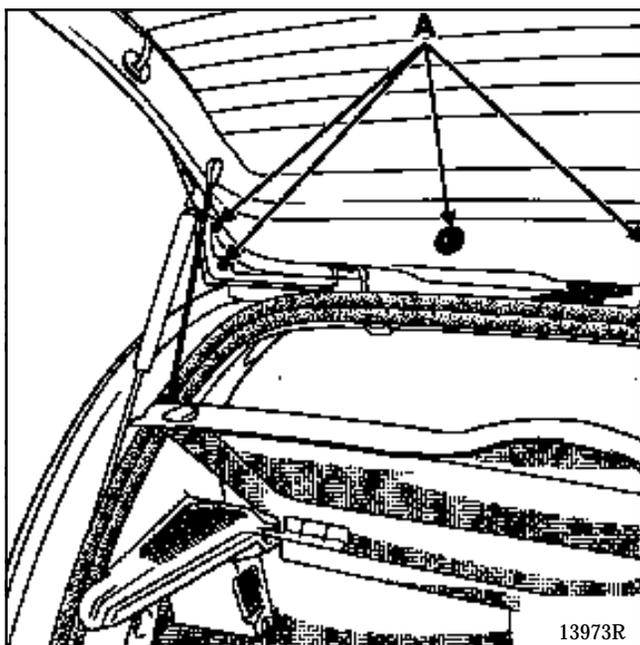
# EXTERIOR ACCESSORIES

## Rear spoiler

56 A



### REMOVAL

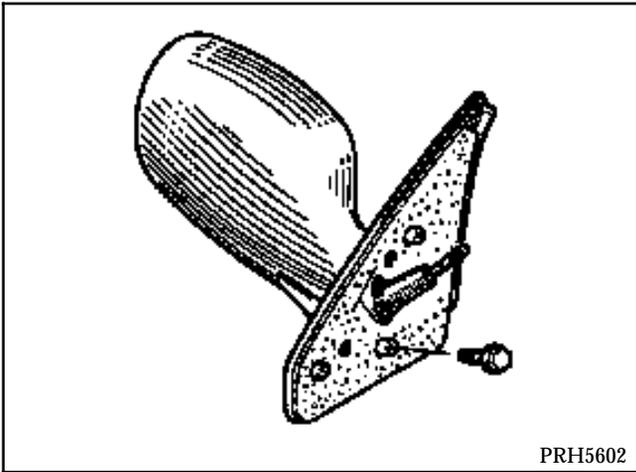


Remove the bolts (A) mounting the spoiler on the tailgate.

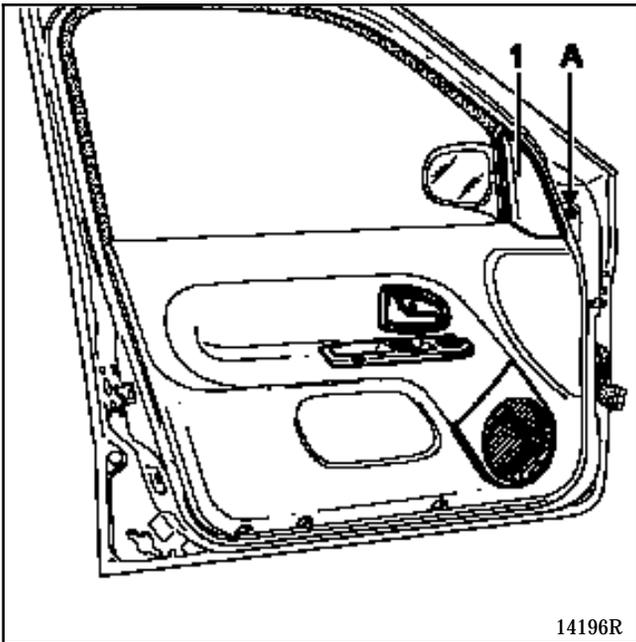
Pull the spoiler upwards to unclip it (B).

Disconnect the third stop light (C).

Remove the supply pipe for the rear screen washer jet (D).

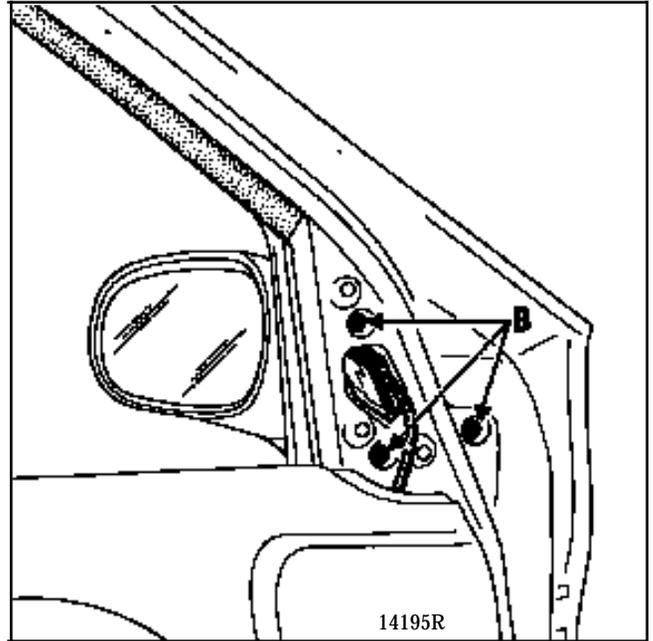


REMOVAL



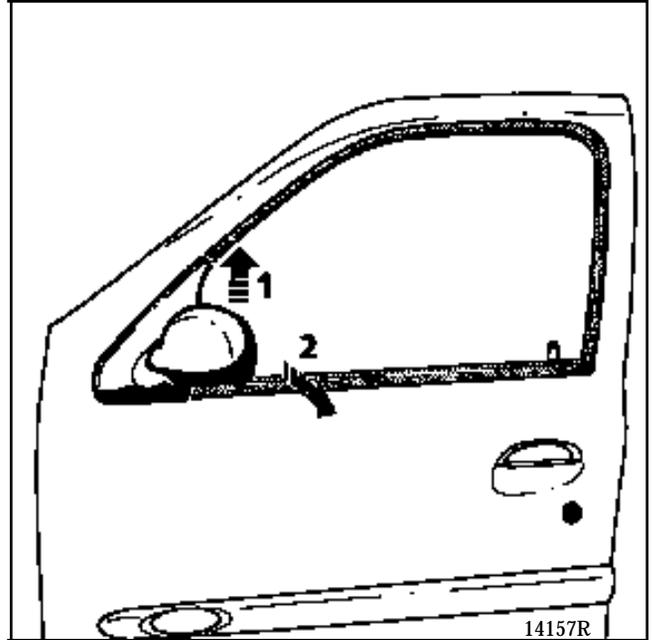
Remove:

- the access cover for the rear view mirror feed connector (1) or the manual control mounting,
- the blanking cover (A),



- the three mounting bolts (B).

If necessary, disconnect the rear view mirror feed connector.

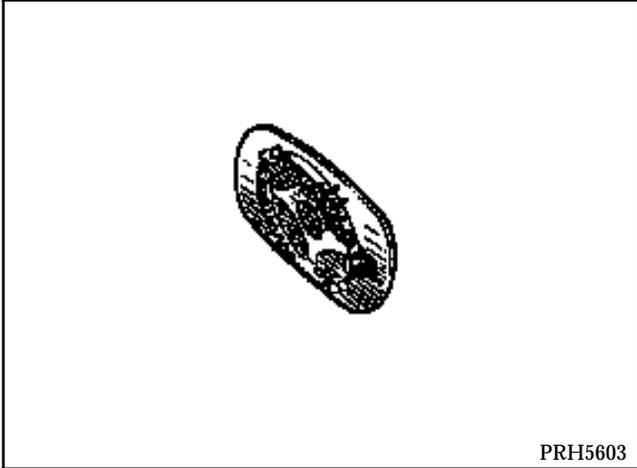


Lift the rear view mirror (1) and release the retaining brackets from the door panel (2).

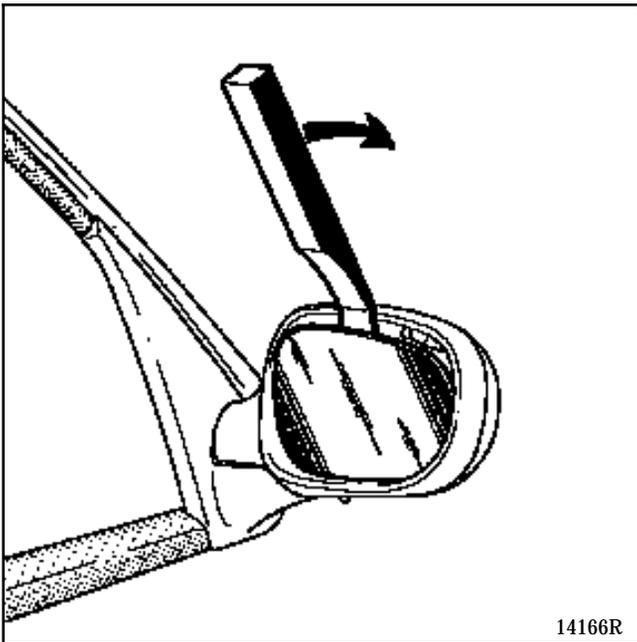
# EXTERIOR ACCESSORIES

## Exterior rear view mirror glass

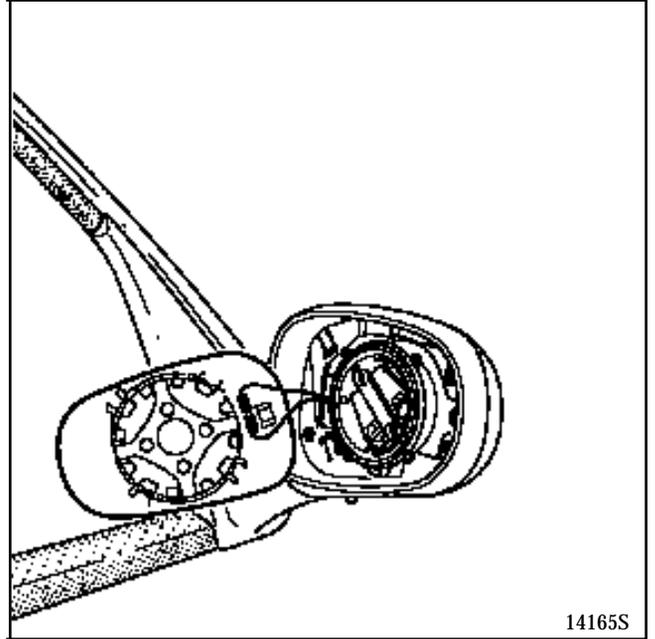
56 **C**



### REMOVAL



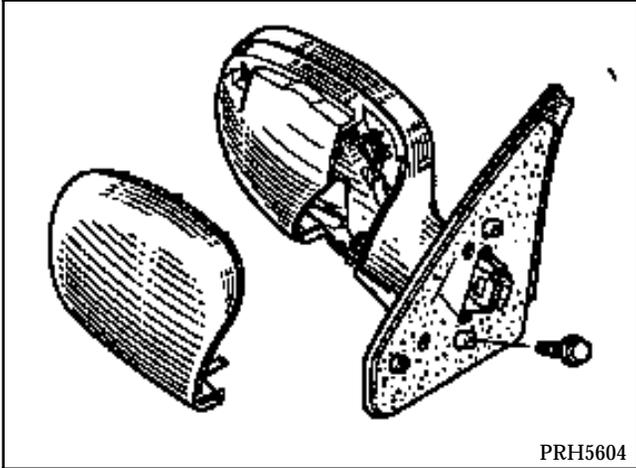
Insert tool **Car. 1363**, and taking the weight on the edge of the rear view mirror plastic shell, push as shown above.



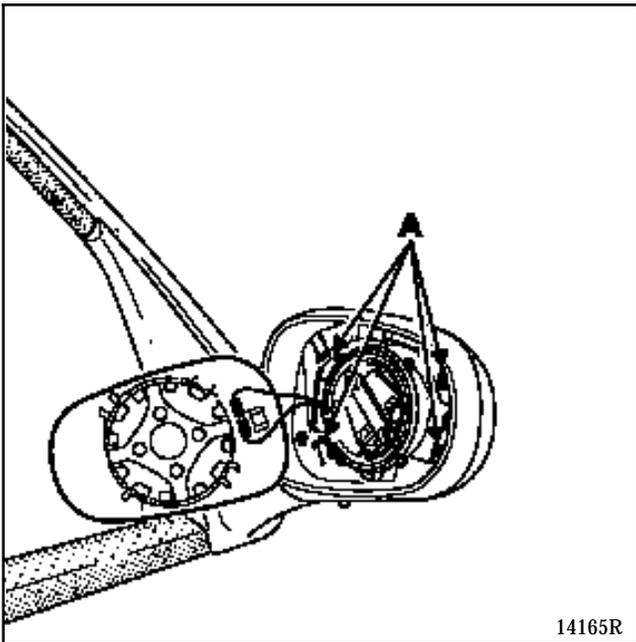
Disconnect the feed terminals of the heated mirror wiring if necessary.

### REFITTING

Position the glass and press on it to clip it to the base of the rear view mirror.



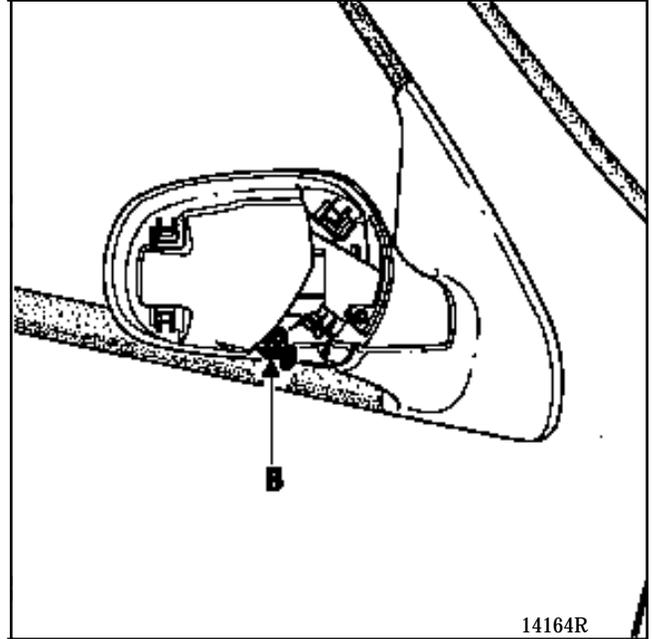
REMOVAL



Remove the rear view mirror glass (see section 56-C).

Using a flat blade screwdriver, lift the retaining brackets of the base to release the clips (A) on the shell.

Remove the shell.

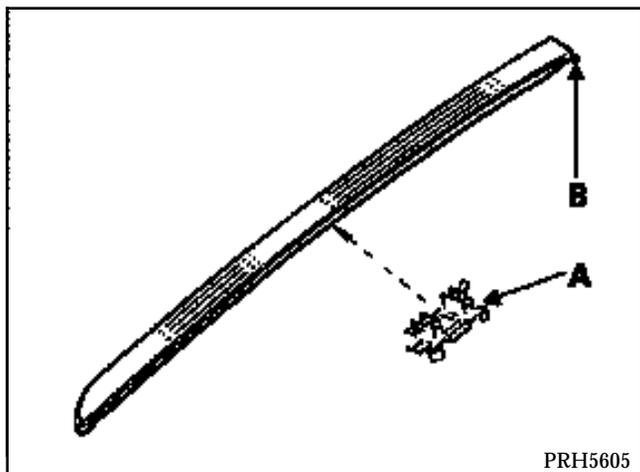


**NOTE :** to reach the temperature sensor (B), the plastic shell must be removed from the base of the rear view mirror.

# EXTERIOR ACCESSORIES

## Rain channel trim

56 E



### REFITTING

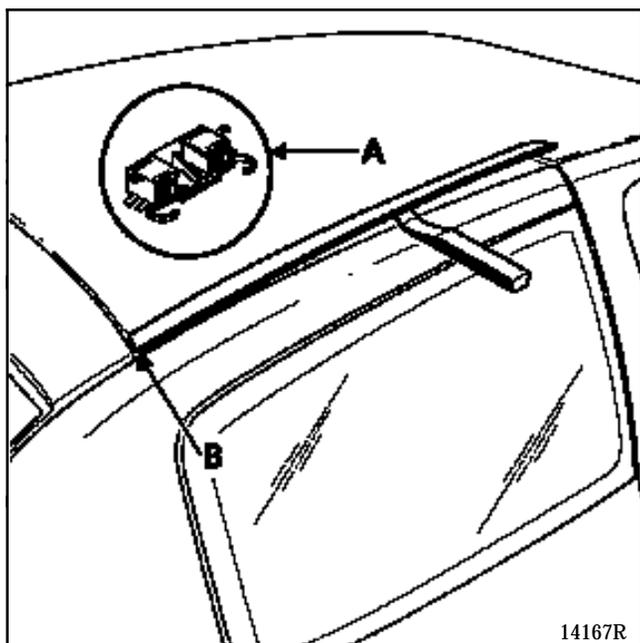
To replace any clips (A) broken when the trim was removed, use the kit of clips **Part Number : 77 03 077 438**.

Refit the clips on the welded **KSM** type studs in the position described opposite.

To correctly refit the trim, set the rear end (B) against the stop on the roof panel.

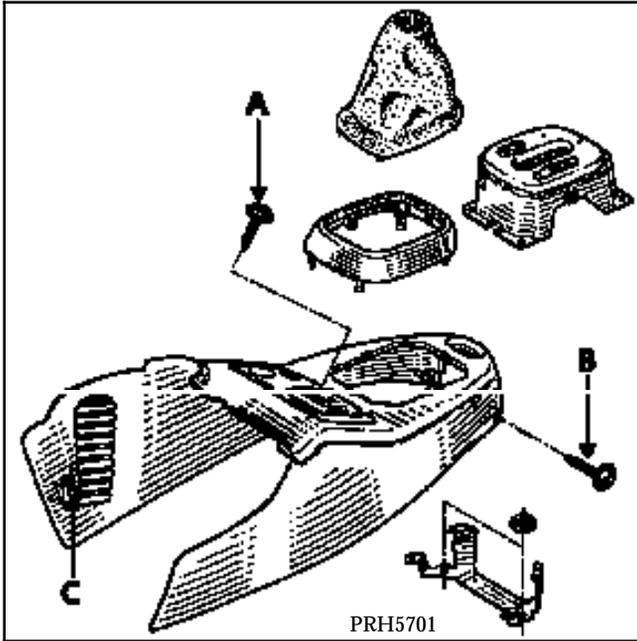
Press the trim down and clip it into position along its length.

### REMOVAL

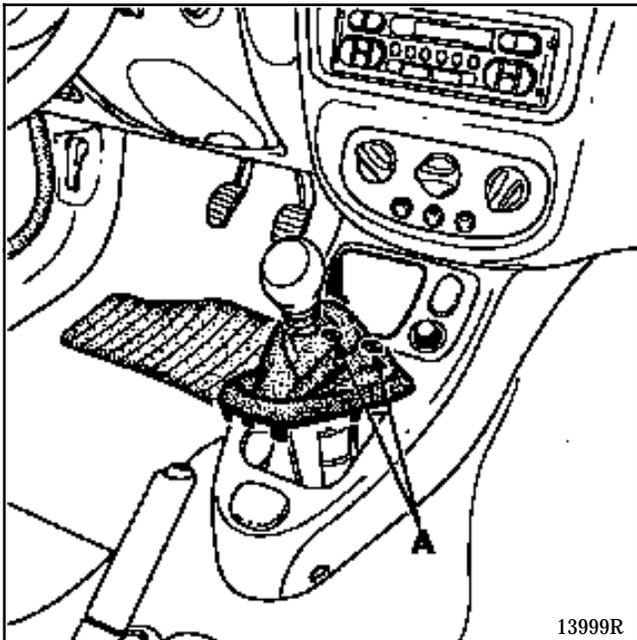


Insert tool **Car. 1363**, taking the weight on the roof panel and push as shown in the diagram above to release the trim along its length.

The retaining clips (A) remain in the rain channel.

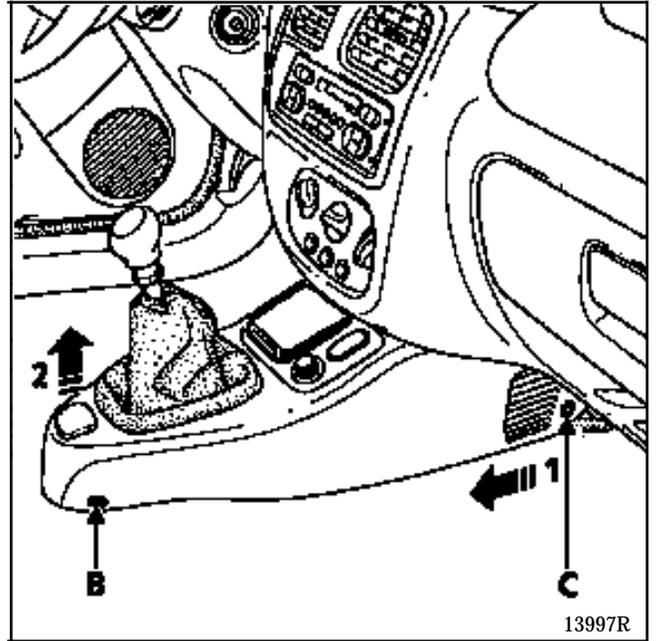


### REMOVAL



Unclip the gear lever gaiter and remove the ash-tray from its location in the console.

Remove the two mounting bolts (A).



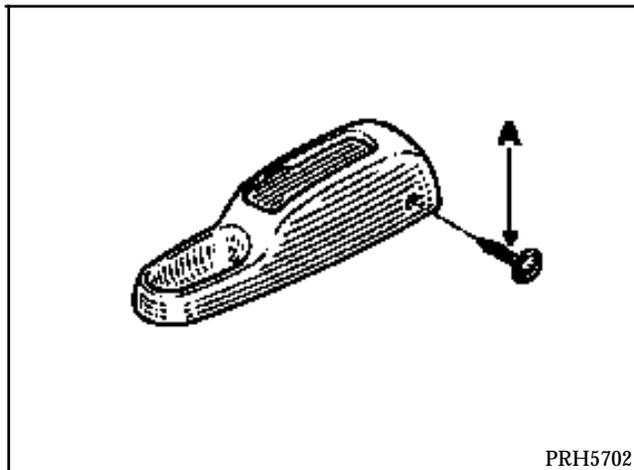
Remove the two mounting bolts (B).

Pull and unclip the front of the console (C).

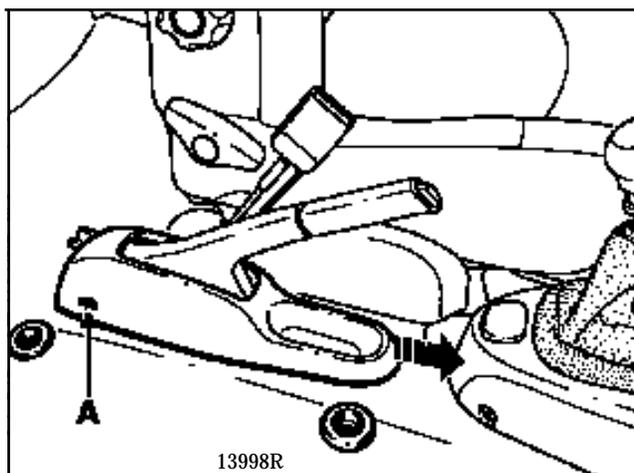
Release it from its location under the dashboard (1).

Disconnect the feed connectors for the cigar lighter, the hazard warning lights control and the central door locking switch.

Release the console from around the gear lever (2).



REMOVAL

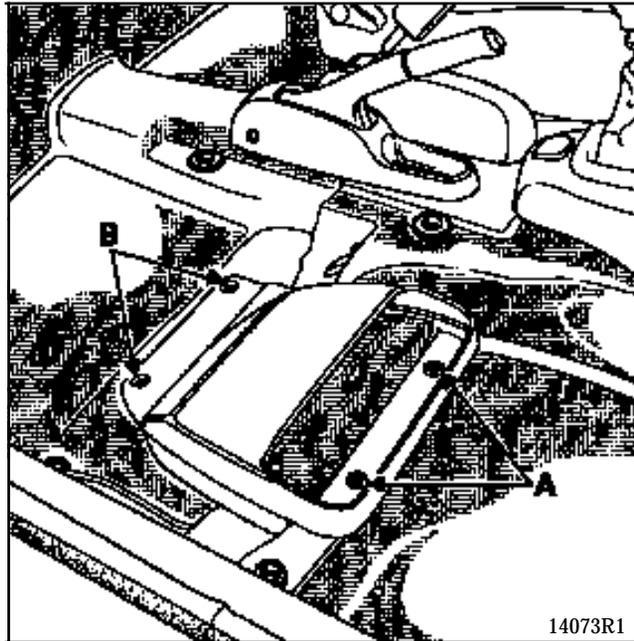


Move the two front seats as far forward as possible.

Remove the two bolts (A).

Push the trim forward to release it from the base of the lever.

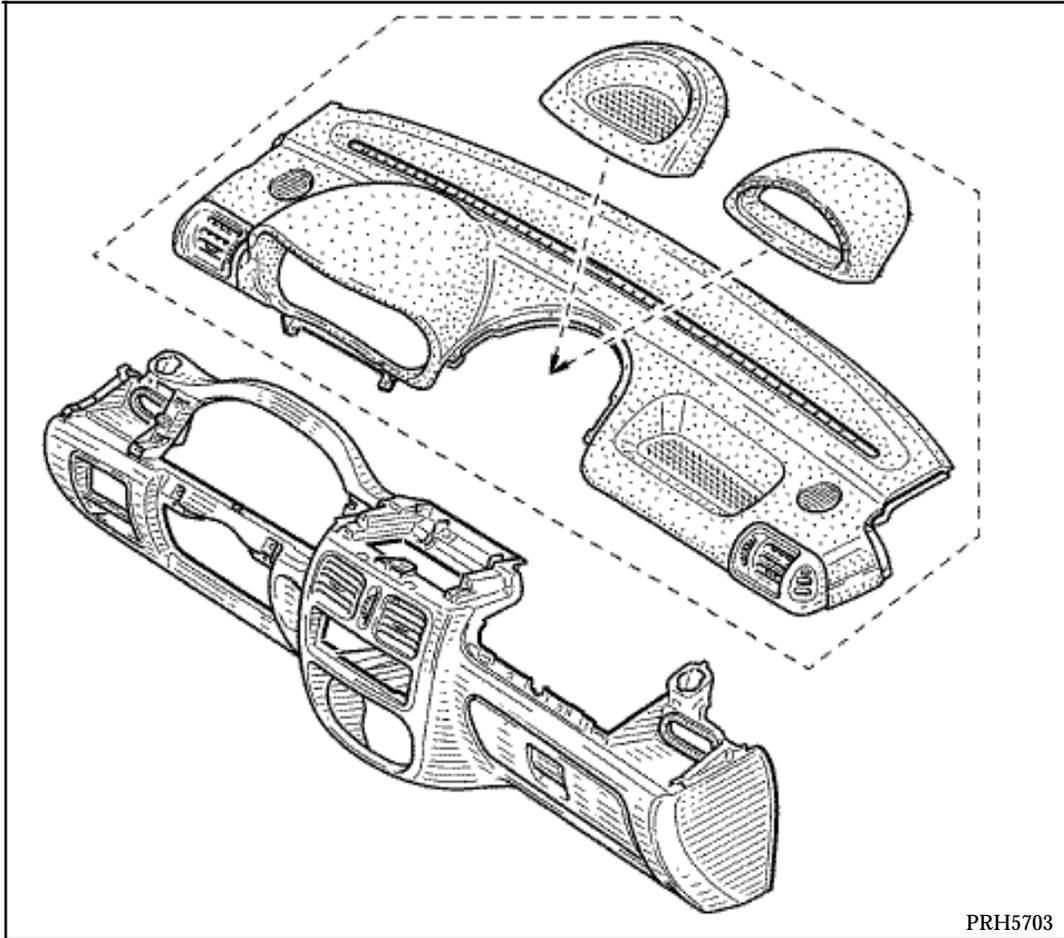
**REMOVAL**



Move the seat as far forward as possible to reach the mounting bolts (A) for the storage tray.

Move the seat as far back as possible to reach the mounting bolts (B) for the storage tray.

Remove the storage tray.



To remove the dashboard, the steering column must be removed beforehand.  
To do this, follow the method described below.

### REMOVAL

**IMPORTANT:** it is forbidden to handle pyrotechnic systems (air bag and pretensioners) near to a source of heat or a flame - they may be triggered.

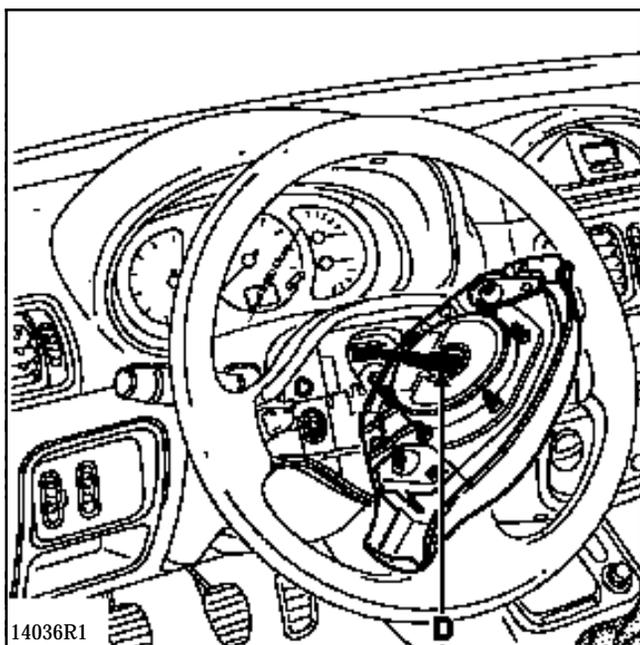
**IMPORTANT :** all operations on the air bag and pretensioner systems must be carried out by qualified staff having received the appropriate training.

**IMPORTANT :** whenever the steering wheel is removed, the air bag connector (D) must be disconnected. The air bag has a connector which short circuits when it is disconnected to prevent incorrect triggering.

Disconnect the battery.

**Vehicles fitted with an air bag:** remove the driver's air bag cushion by the two Torx bolts (T30) (tightening torque : **0.5 daN.m**) located behind the steering wheel and disconnect the connector (D).

**Vehicles without an air bag:** remove the central steering wheel cover (clipped).



Remove:

- the steering wheel bolt,
- the steering wheel after setting the wheels straight,
- the half cowlings (three bolts).

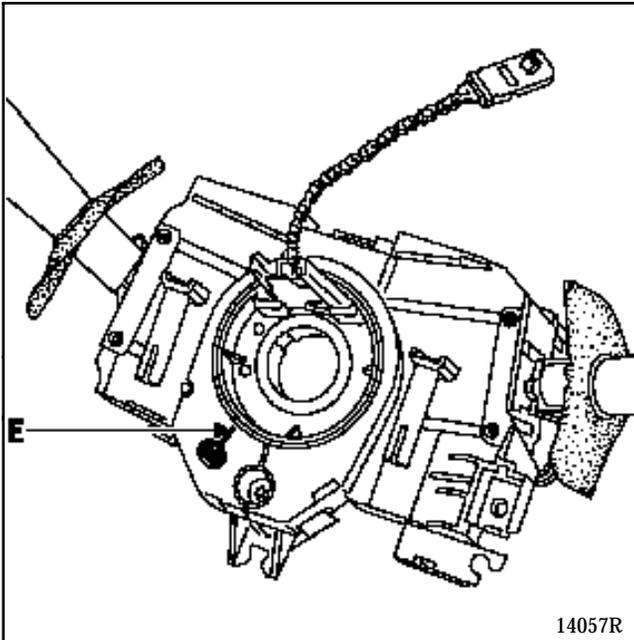
Disconnect the control stalks (wipers and lights) and the rotary switch connector (vehicles fitted with an air bag).

### SPECIAL NOTES FOR VEHICLES FITTED WITH AN AIR BAG

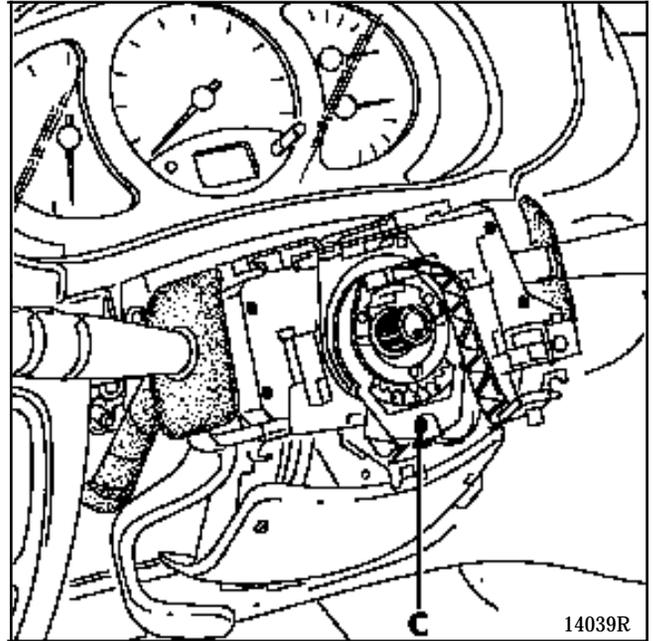
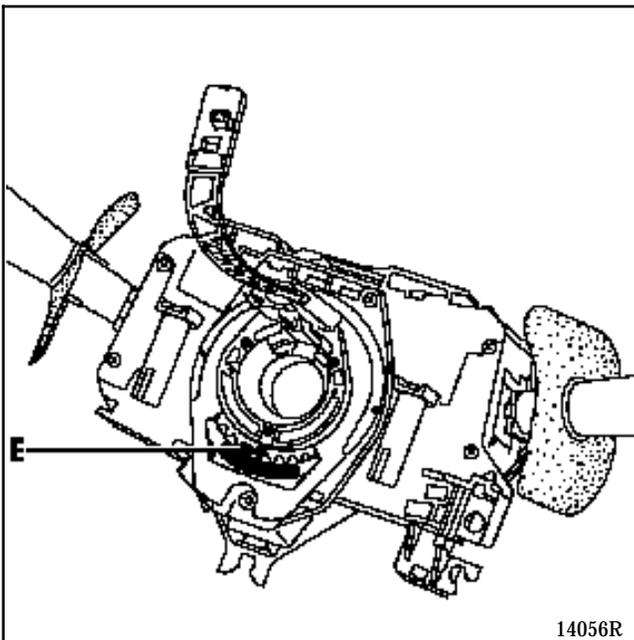
Before removing the assembly it is vital to note the position of the rotary switch:

- by ensuring that the wheels are straight on removal so that the strip may be positioned in the centre,
- by checking that the reference mark "0" on the rotary switch is correctly positioned opposite the fixed marker (E).

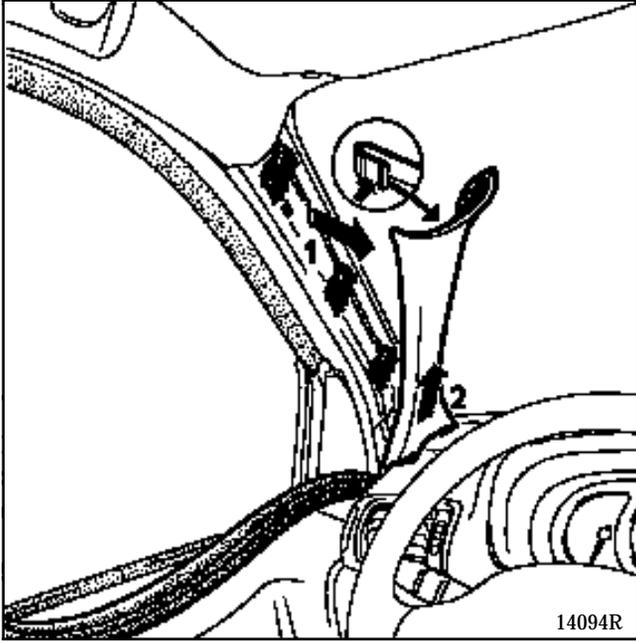
### VALEO ASSEMBLY



### LUCAS ASSEMBLY

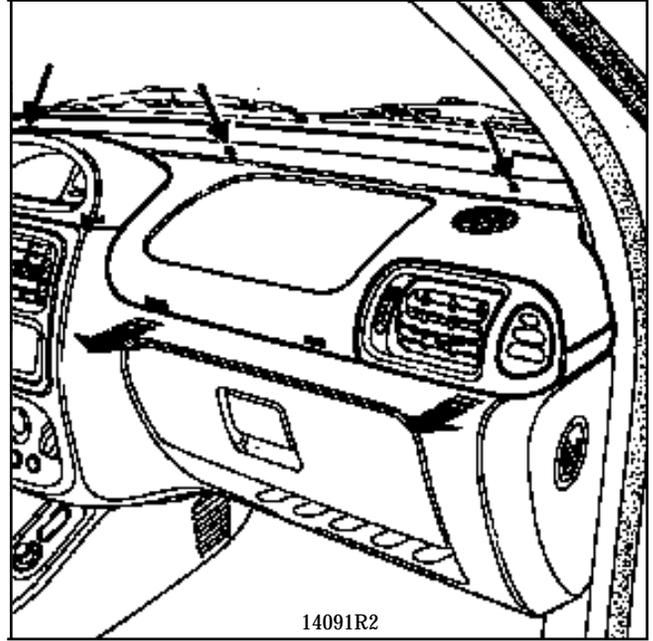


Slacken bolt (C) then tap the screwdriver sharply to release the cone and release the assembly from the steering column.

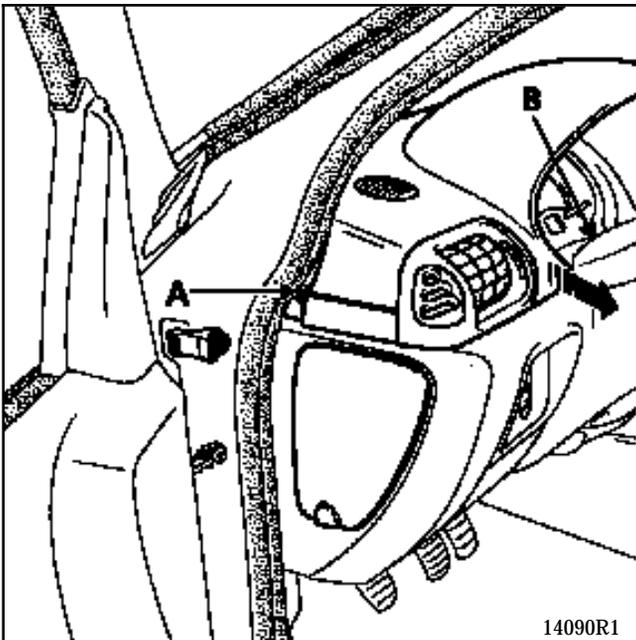


Remove the visor; to do this:

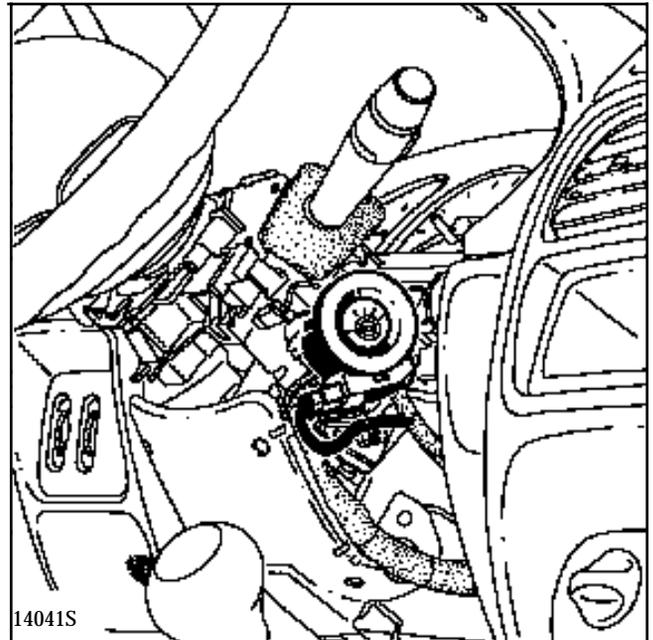
- first remove the windscreen pillar linings; to do this, release the trim far enough so that the upper clip may be pressed, then move the pillar trim (1) to one side and release it from the visor (2),



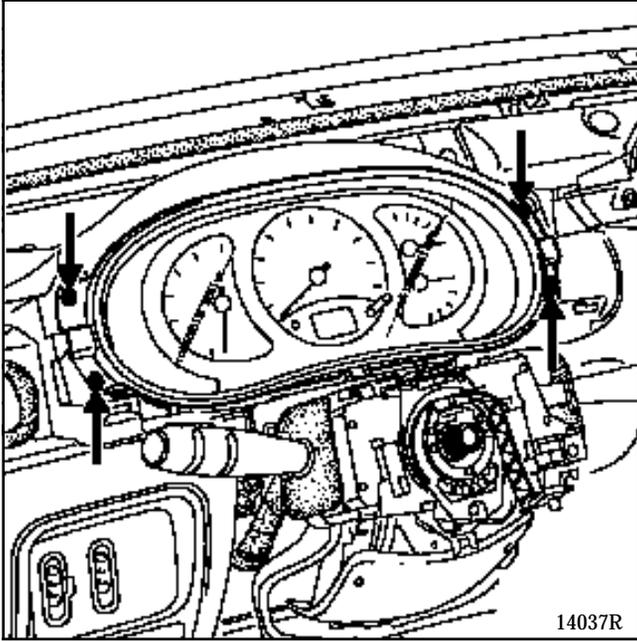
- the three bolts at the top (near the windscreen) and remove the visor completely as shown in the diagrams.



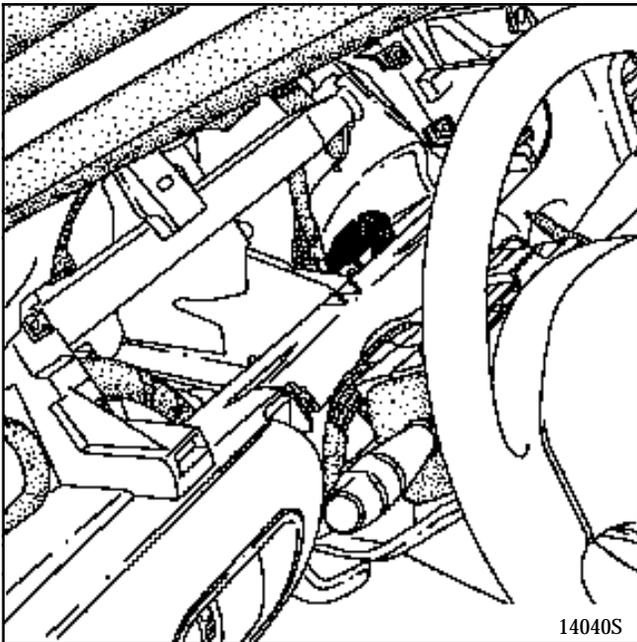
- the two side bolts (A),
- the two bolts under the instrument panel (B),



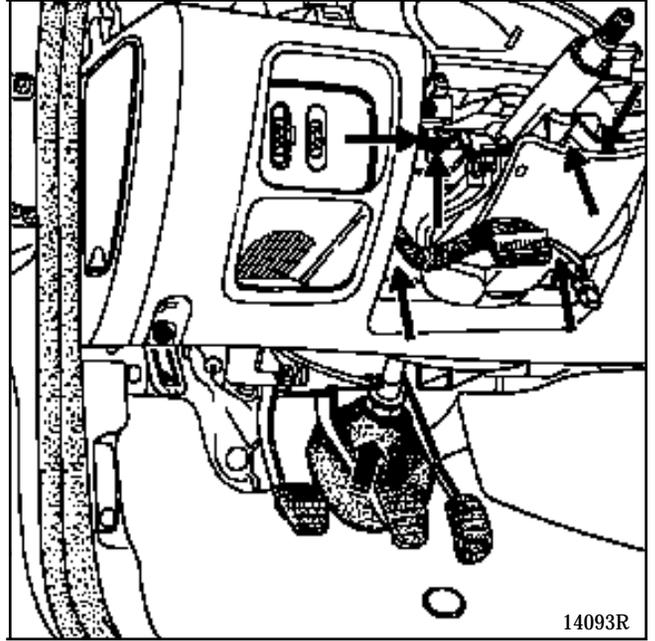
Remove the immobiliser antenna ring from the ignition switch.



Remove the instrument panel (four bolts) and disconnect the connectors.



Disconnect the connector for the ignition switch.



In the engine compartment, remove:

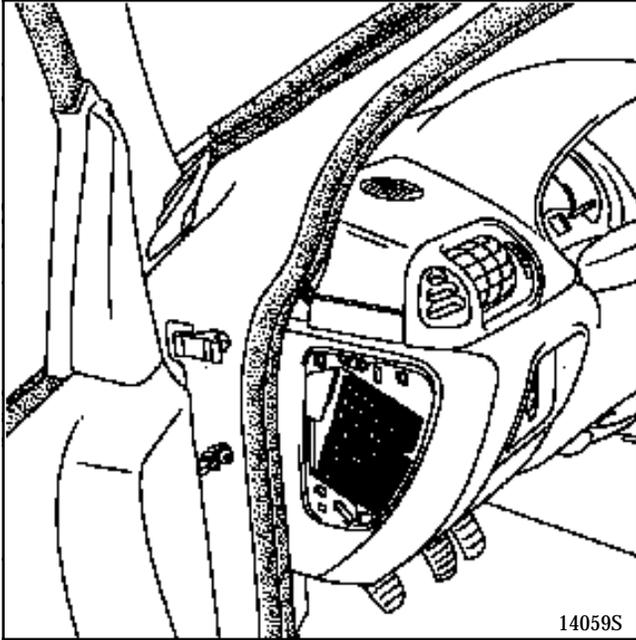
- the air inlet sleeve,
- the mounting nuts for the expansion bottle and move it so the steering column universal joint may be reached.

Remove the universal joint eccentric bolt.

Remove the six bolts mounting the steering column and pull on the bulkhead gaiter.

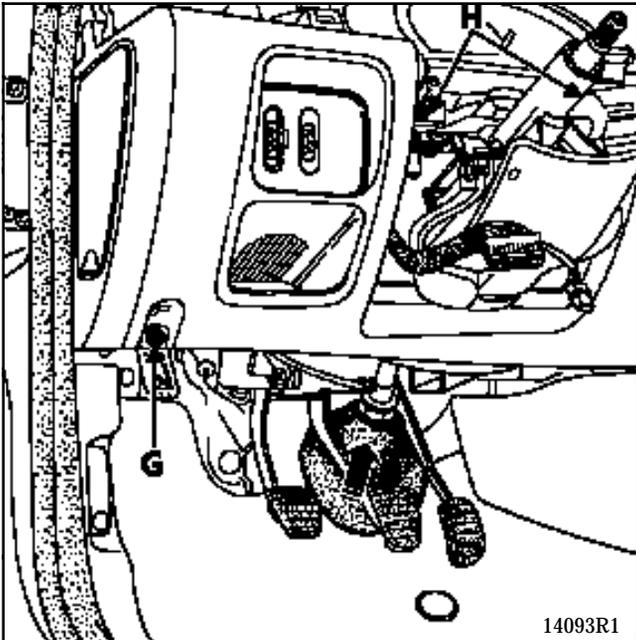
Remove the steering column.

### REMOVING THE DASHBOARD

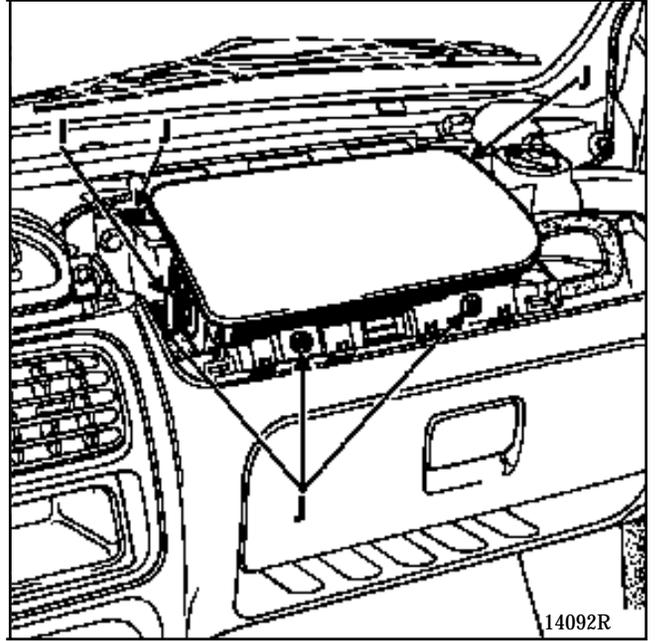


Remove:

- the fuse box access cover.

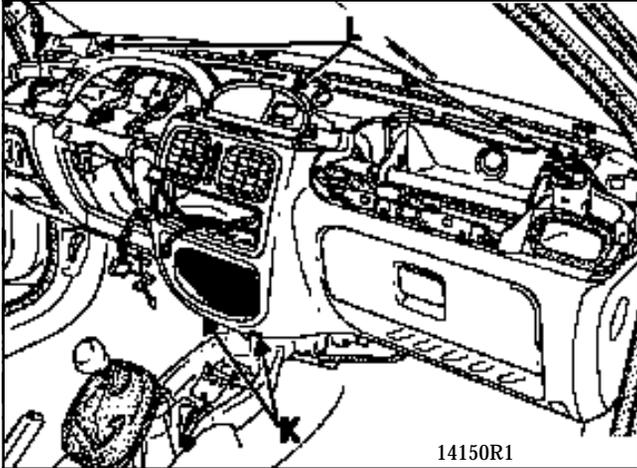


- the lower mounting bolts (G),
- the mounting bolts (H).



### REMOVING THE PASSENGER AIR BAG CUSHION (depending on equipment)

Disconnect connector (I) and remove the cushion mounting bolts (J).

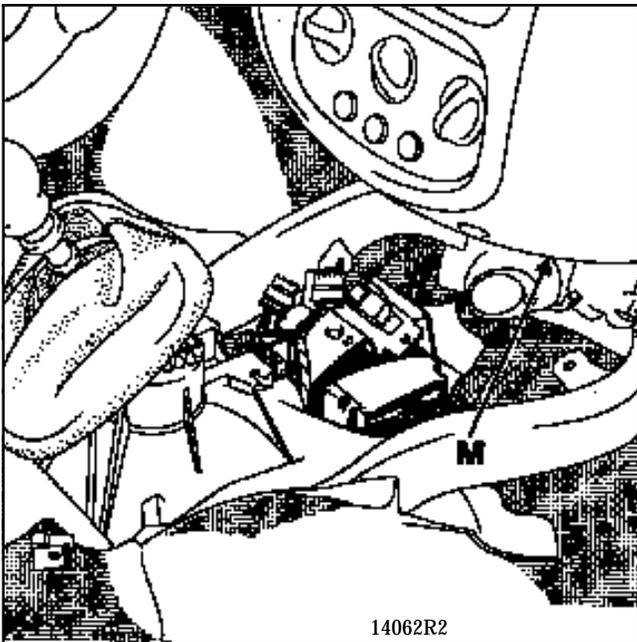


Remove the two mounting bolts (K) for the heating control unit and unclip it from its location in the dashboard.

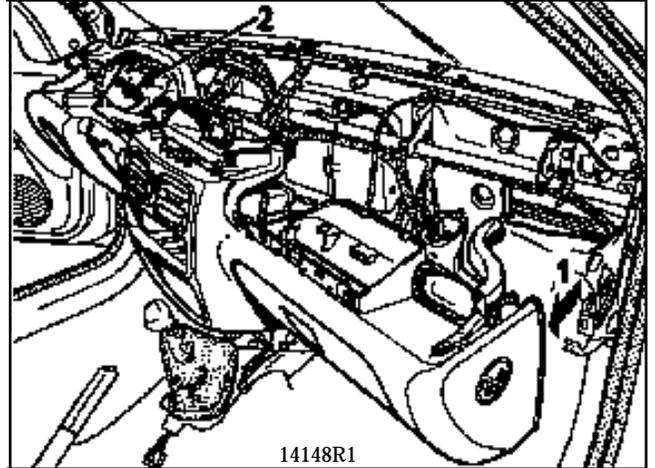
Remove:

- the three upper mounting bolts (L) of the dashboard,
- the radio.

Disconnect the central display feed connector (if fitted).

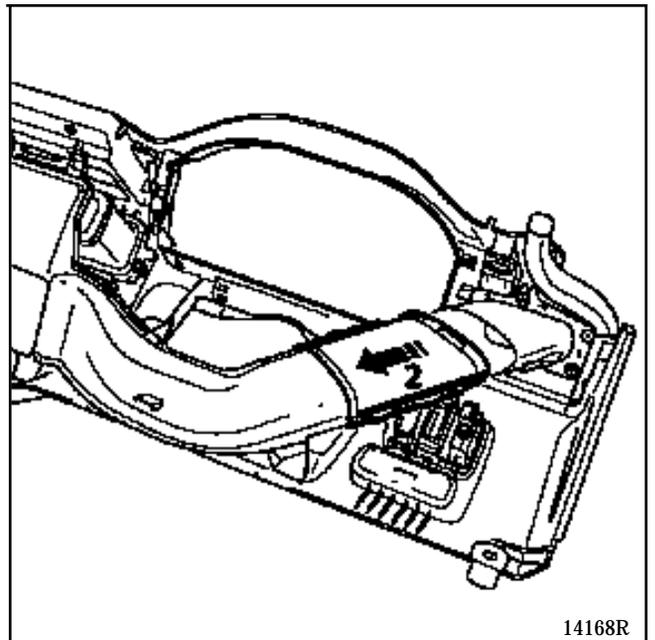


Remove the mounting bolt (M).



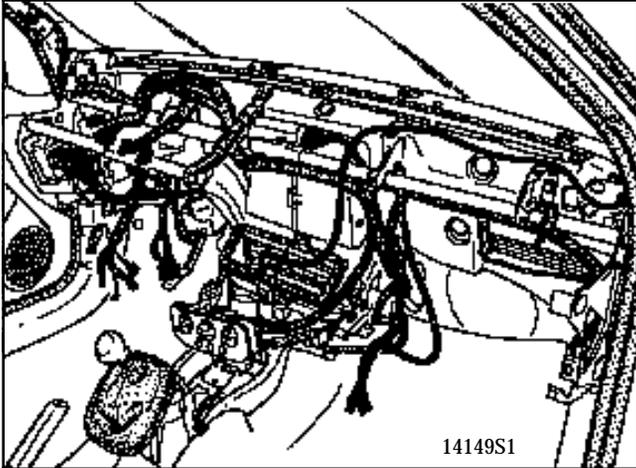
Gently lift the dashboard to release the retaining pins at the mounting bolts (L), (see opposite).

Move the dashboard out on the right hand side (1).



Slide the sleeve (2) so that the left hand side of the dashboard may be moved out.

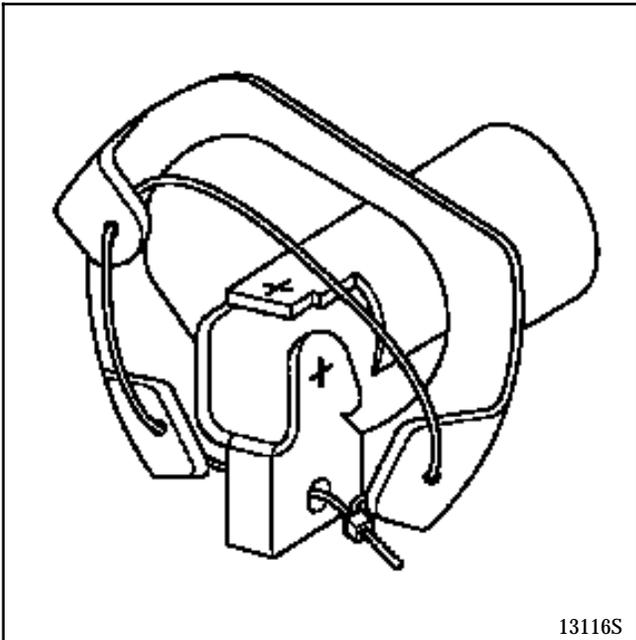
**NOTE :** this sleeve passes behind the metal heater casing; slide it as shown in the diagram above to allow the dashboard to be released from the heater casing.



Remove the dashboard from the passenger compartment (two persons required).

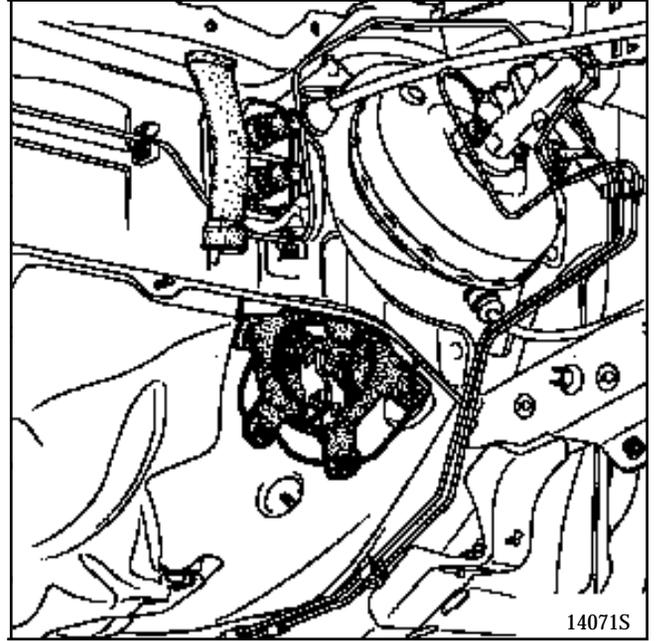
**NOTE :** when replacing a body or dashboard wiring loom, refit the wiring loom so that it runs under the dashboard as shown in the diagram above.

**REFITTING**



Refit the dashboard and the heater control unit.

Fit the steering column; follow the appropriate recommendations.



Fit the gaiter onto the bulkhead, having first connected the wings of the gaiter to the universal joint using string.

Pull on the tab, cut the string to fit the gaiter.

Refitting is then the reverse of removal.

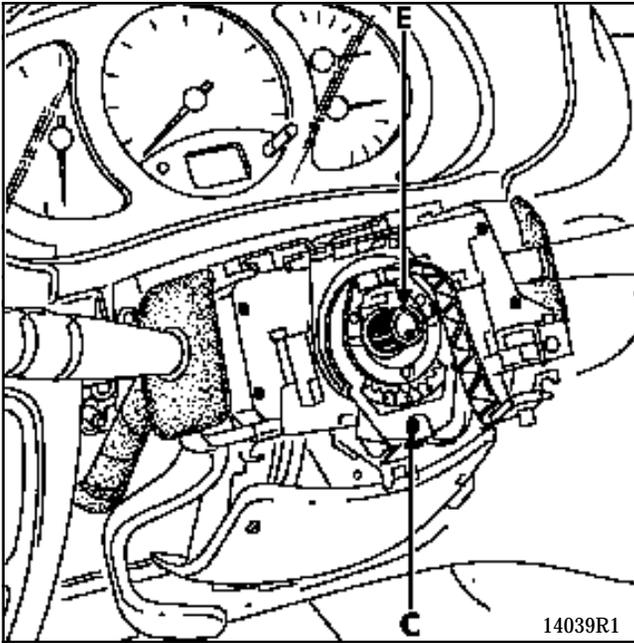
Check that all the connectors are correctly reconnected.

### SPECIAL NOTES FOR REFITTING

Ensure that the wheels are still straight.

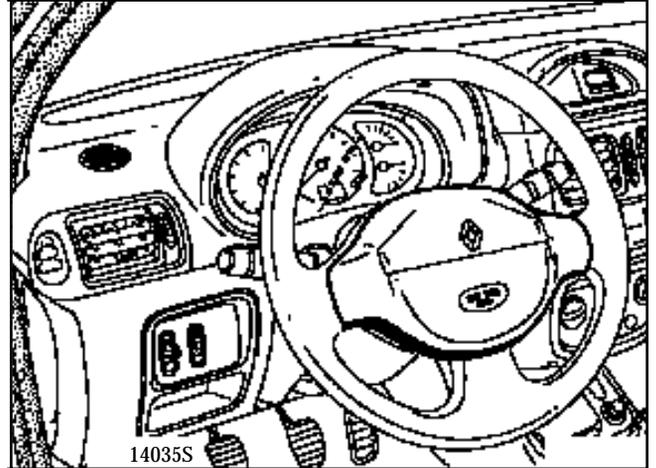
Check that the rotary switch is correctly positioned by checking that the reference mark "0" on the rotary switch is opposite the fixed mark (E), (vehicles fitted with air bag).

Fit the assembly onto the steering column and connect the various connectors.



Carry out the rest of the refitting operations and only lock bolt (C) once the two half cowlings have been refitted, so that the control stalks can be fitted in alignment with the instrument panel and the dashboard.

This operation is made easier by an opening in the lower half cowling to give access to bolt (C).



Renew the steering wheel bolt each time it is removed (pre-bonded bolt).

Observe the correct tightening torque (4.5 daN.m).

TIGHTENING TORQUES (in daN.m)		
Universal joint eccentric bolt	2.5	
Steering wheel bolt	4.5	
Steering column mounting nut	2	
Air bag cushion mounting bolt	0.5	

**SPECIAL NOTES FOR VEHICLES FITTED WITH AN AIR BAG**

**IMPORTANT** : before reconnecting the driver's air bag cushion, the procedure for checking operation of the system must be applied:

- check that the air bag warning light is illuminated on the instrument panel when the ignition is on,
- connect a dummy ignition module to the driver's air bag cushion connector and check that the warning light extinguishes,
- switch off the ignition, connect the air bag cushion in place of the dummy ignition module and secure the cushion to the steering wheel (tightening torque **0.5 daN.m**),
- switch on the ignition, check that the warning light illuminates for **3 seconds** when the ignition is switched on then extinguishes and remains extinguished.

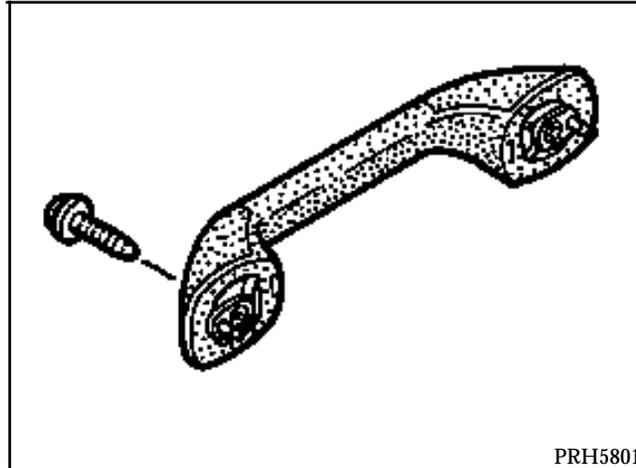
If the warning light does not operate as described above, refer to the section "**Fault finding**" and test the system using the **XR BAG (Elé. 1288)**.

**IMPORTANT: if these instructions are not followed exactly, the systems may not operate normally and may even be incorrectly triggered.**

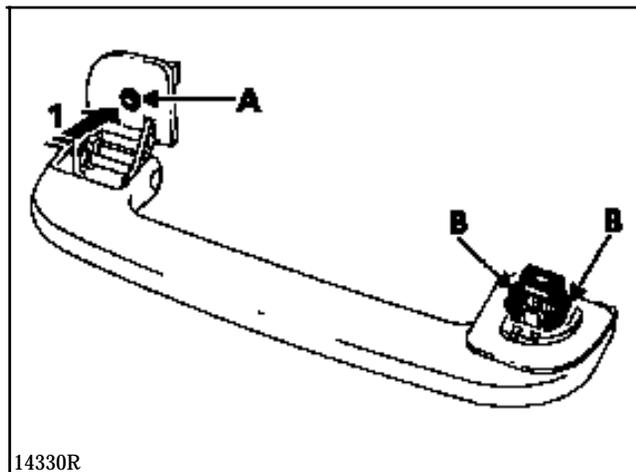


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When a dashboard fitted with a passenger air bag is replaced, the warning label must be refitted in the correct place (on the side of the dashboard). This label is available in the kit Part Number 77 01 205 442.

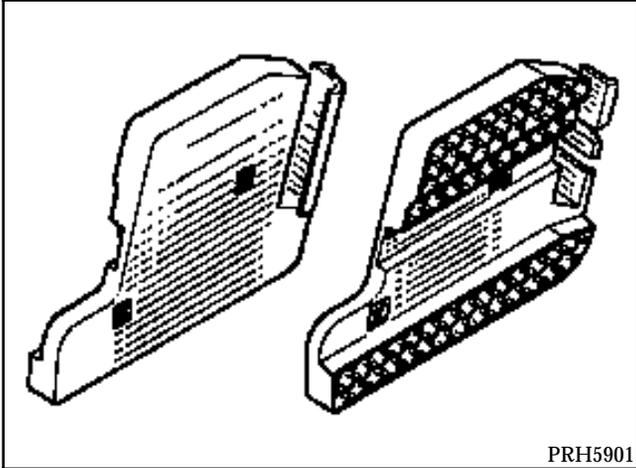


REMOVAL



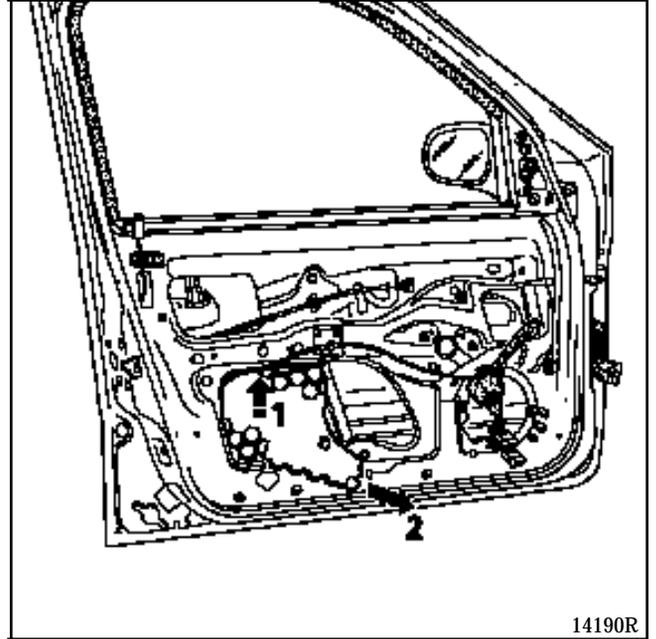
Slacken the mounting bolts (A) without removing them from their location in the vehicle.

Push on bolt (1), to remove the plastic brackets (B) from the handle located in the body side linings.

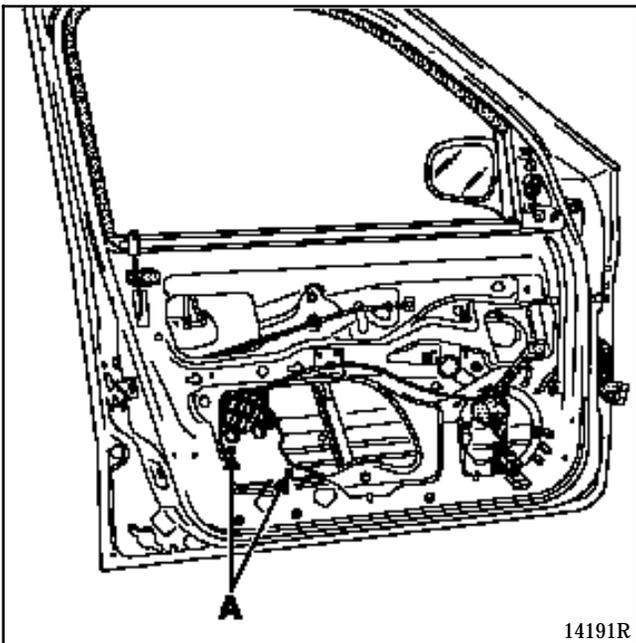


**REMOVAL**

Remove the front door lining (see section 72-A).



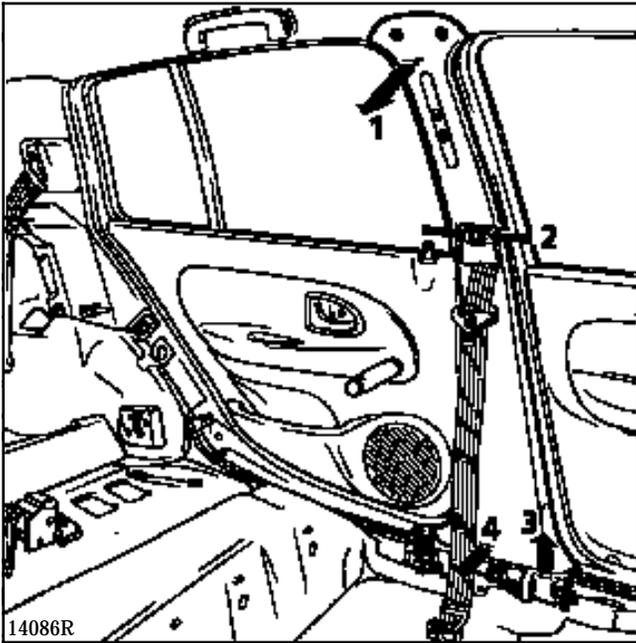
Lift the impact absorber (1) and remove it via the opening in the door box section (2).



Using a small flat blade screwdriver, separate brackets (A), to unclip the impact absorber.

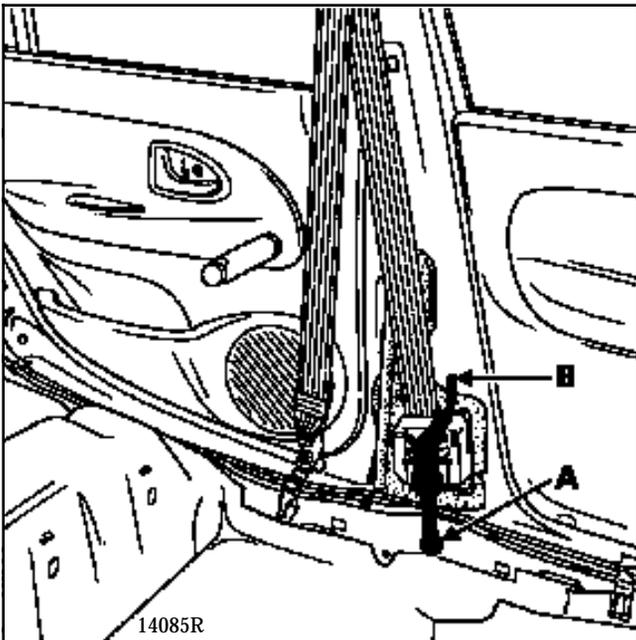


### REMOVAL (5 DOOR VERSION)



Remove:

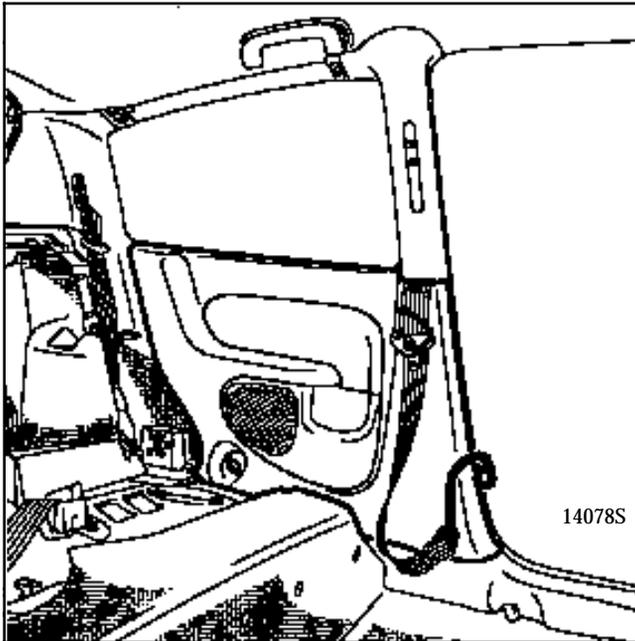
- the front seat (see section 75-A),
- the upper and lower mountings for the seat belt,
- the centre pillar lining (see section 71-C),
- the rear part of the front door inner sill lining.



Remove the mounting bolt (A).

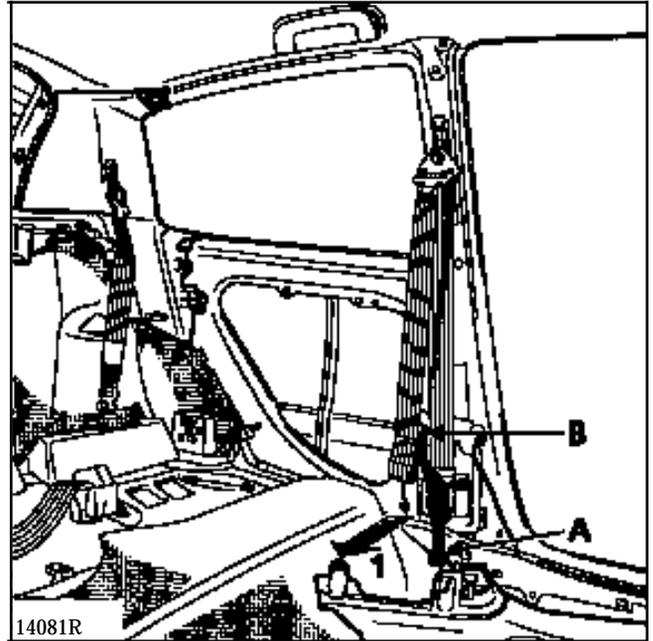
Release the bracket (B) mounting the inertia reel to the centre pillar lining.

REMOVAL (3 DOOR VERSION)



Remove:

- the front seat belt retaining rail,
- the centre pillar and rear quarter panel lower lining (see section 71-D),
- the upper mounting for the seat belt.

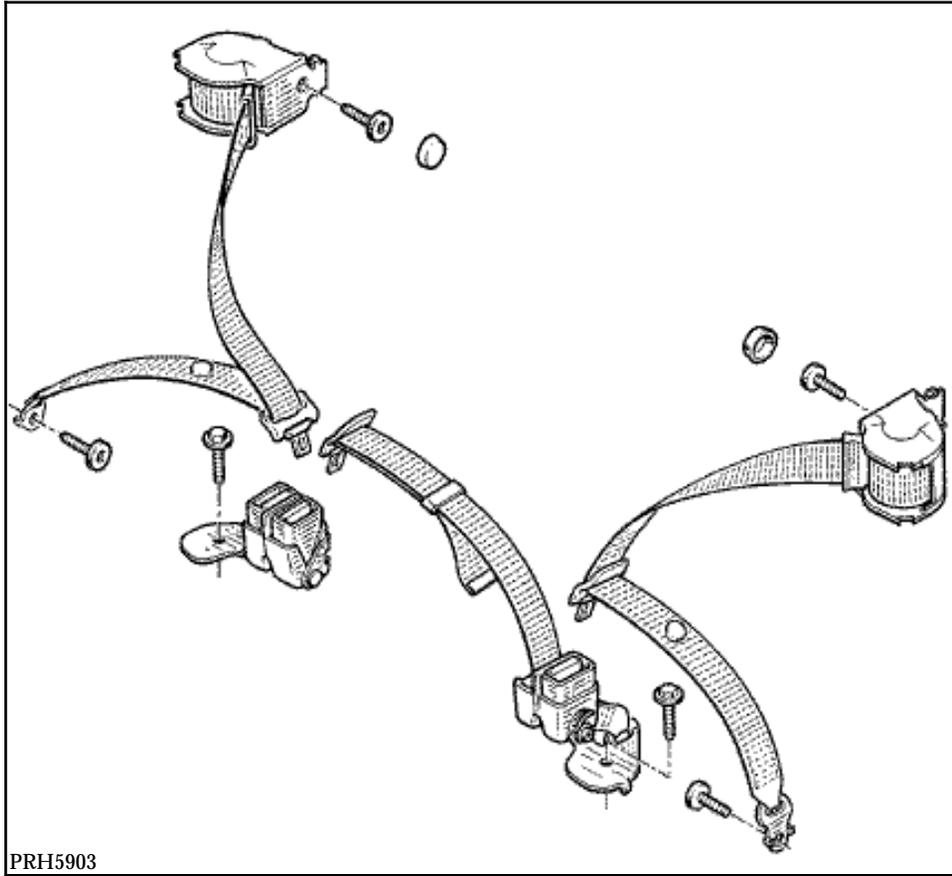


Partially unclip the rear part (1) of the front door inner sill lining.

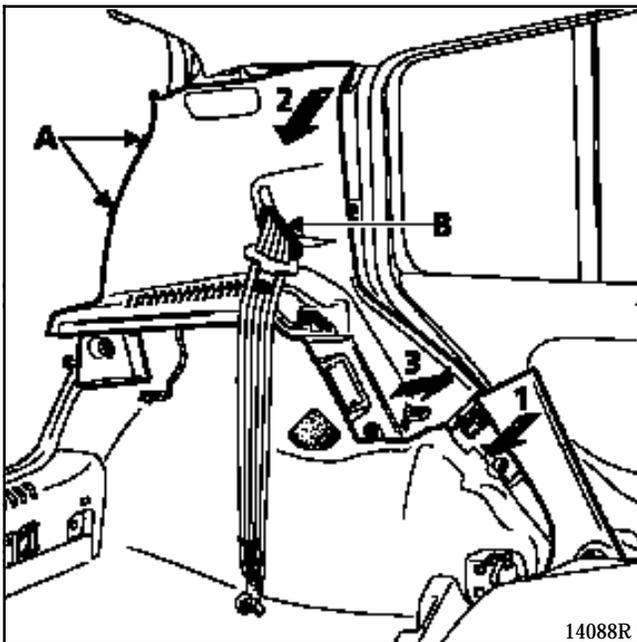
Remove the mounting bolt (A).

Release the bracket (B) mounting the inertia reel to the centre pillar lining.

**If the pretensioner has been triggered, the front seat belt(s) must be systematically renewed if they were in use at the time the pretensioner was triggered (if there is any doubt about whether the seat belt was being used, it must be renewed).**



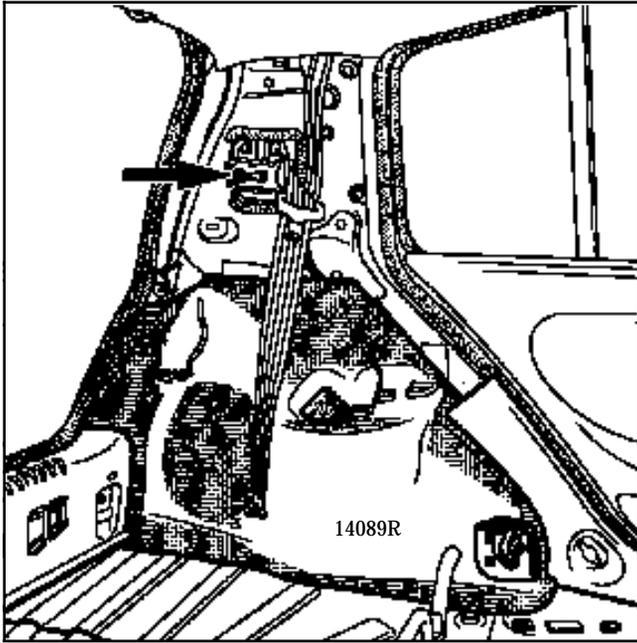
REMOVAL (5 DOOR VERSION)



Remove:

- the lower mounting for the seat belt,
- part of the rear door inner sill lining (1),
- part of the luggage compartment seal where it touches the shelf (A),
- the rear side shelf (2) and (3) (see section 74-A).

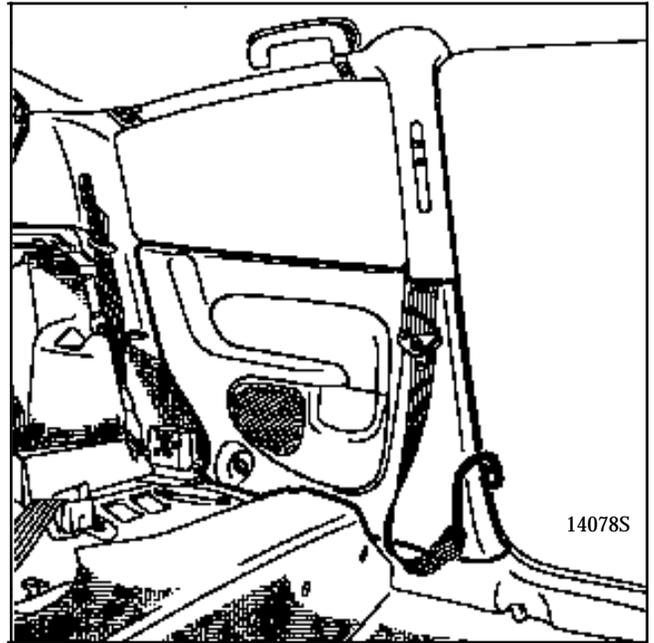
Unclip the strap guide (B) and remove the strap.



Remove the mounting bolt from the inertia reel.

Release the inertia reel from the rear quarter panel lining.

### REMOVAL (3 DOOR VERSION)



Remove:

- the front seat belt retaining rail,
- the centre pillar and rear quarter panel lower lining (see section 71-D),
- the side shelf (see section 74-A).

The operation to remove the inertia reel is identical to that for the 5 door version described above.