



N.T. 506A

X06X

SPECIAL FEATURES OF THE TWINGO PHASE II

For sections not described in this note refer to M.R. 306.

77 11 202 448

OCTOBER 1998

Edition Anglaise

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

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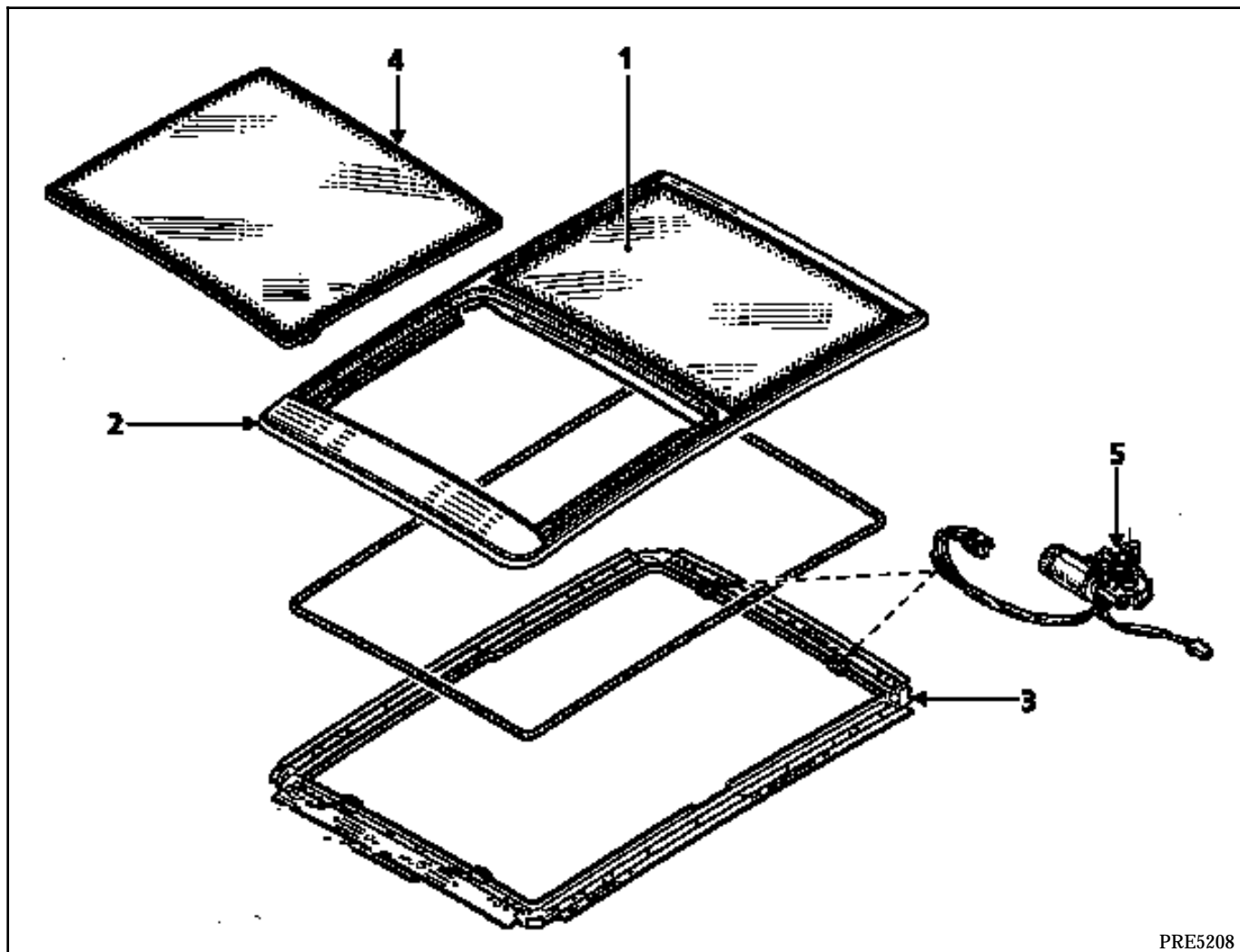
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Renault 1998

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PRE5208

INTRODUCTION

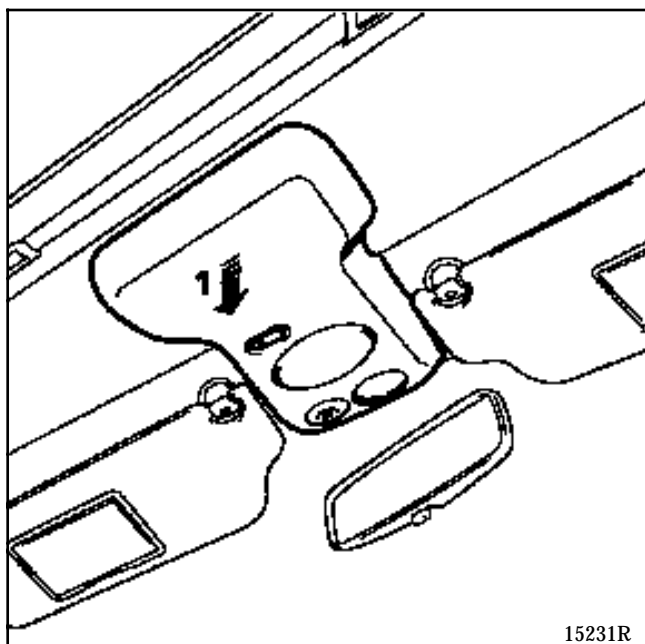
This sun roof cassette has two glass panels.

The glass panel (1) is bonded to the fixed frame (2). This panel is not sold as a replacement part. Therefore, the whole frame must be changed if it is damaged.

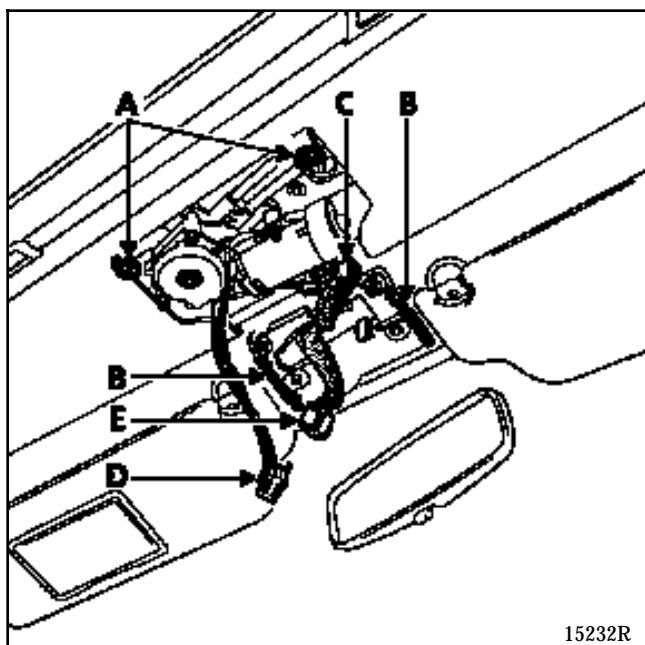
The frame (2) is secured to the roof using a bolted counter-frame (3) onto which the moving panel (4) drive system and the motor (5) are secured.

IMPORTANT: the sun roof must always be fitted and removed with the moving panel open.

REMOVING THE ROOF CONSOLE



Pull the console downwards (1) to remove the retaining clips (A) and the retaining lugs (B) (see illustration below).

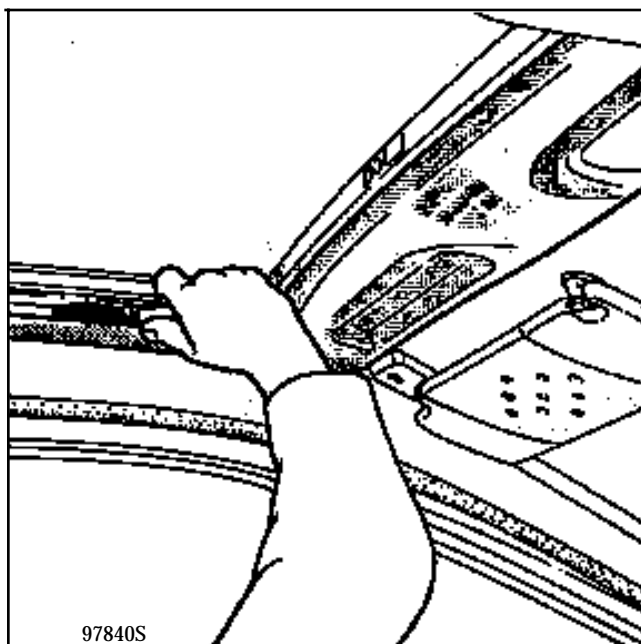


Disconnect:

- the motor supply connector (C),
- the control connector (D) on the console,
- the receiver connector (E) (**Infra-red remote control**).

NOTE: to remove connector (E), the **infra-red remote control** circuit board must be removed from its housing on the console.

REMOVING THE HEADLININGS



Fold the sun visors forwards.

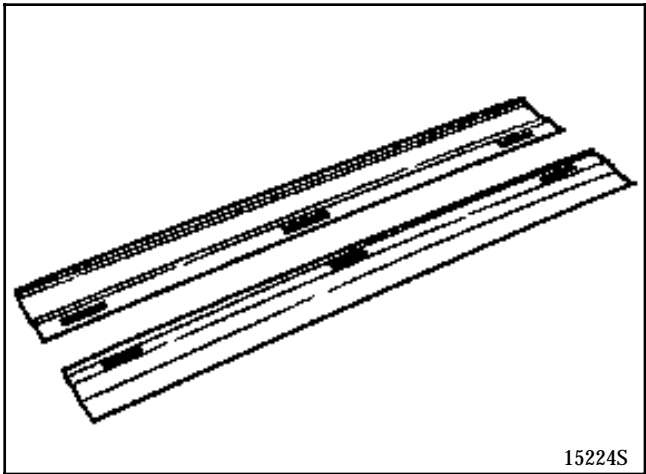
The headlinings are secured on the roof panel by special strips of adhesive tape.

Detach the side, front and rear headlinings carefully, as follows.

Cut the adhesive retaining strips using a "**mastic knife**" type tool taking care to retain on the headlining and on the roof panel an equal part of adhesive on each surface.

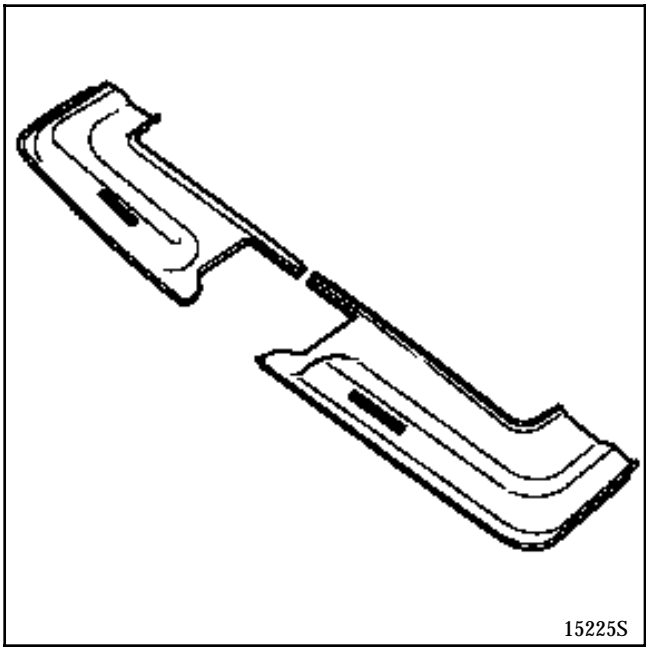
IMPORTANT: during the operation, do not place your fingers on the two contact surfaces of the adhesive tape.

Protect each strip of adhesive tape from dust (headlining side/roof side) using a strip of masking tape. Only place the paper side of the masking tape on the adhesive tape.



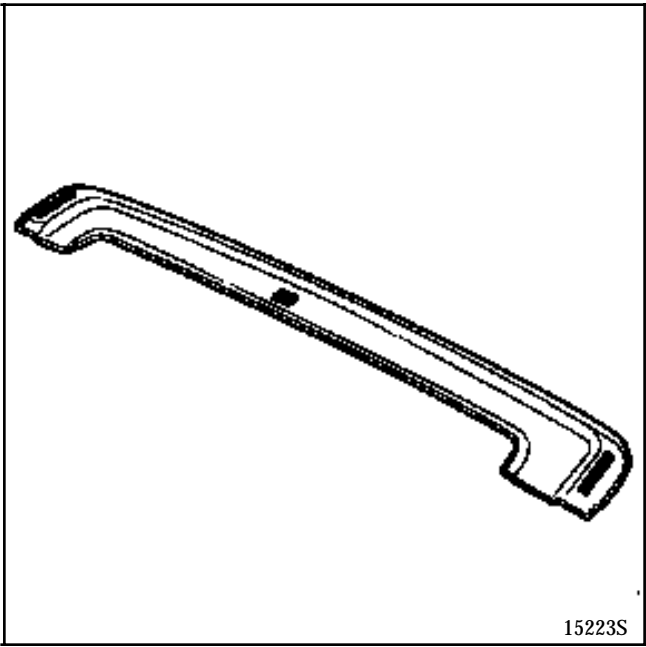
15224S

Side headlinings (three strips of adhesive tape).



15225S

Front headlinings (one strip of adhesive tape).

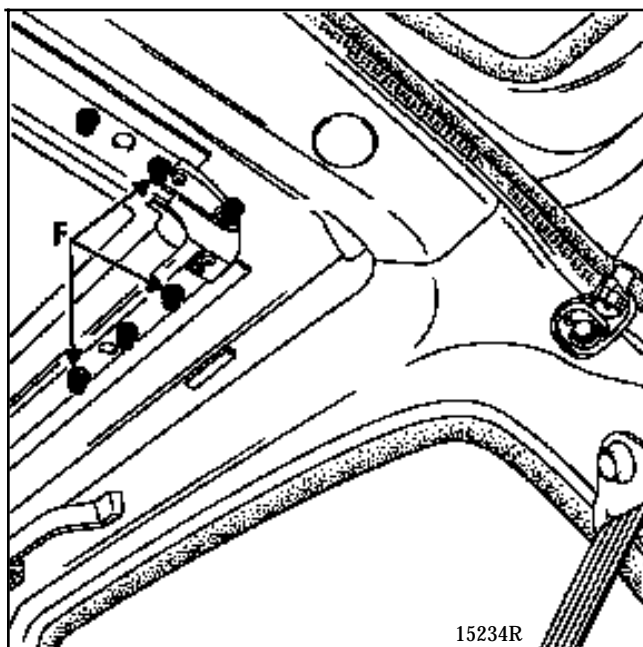
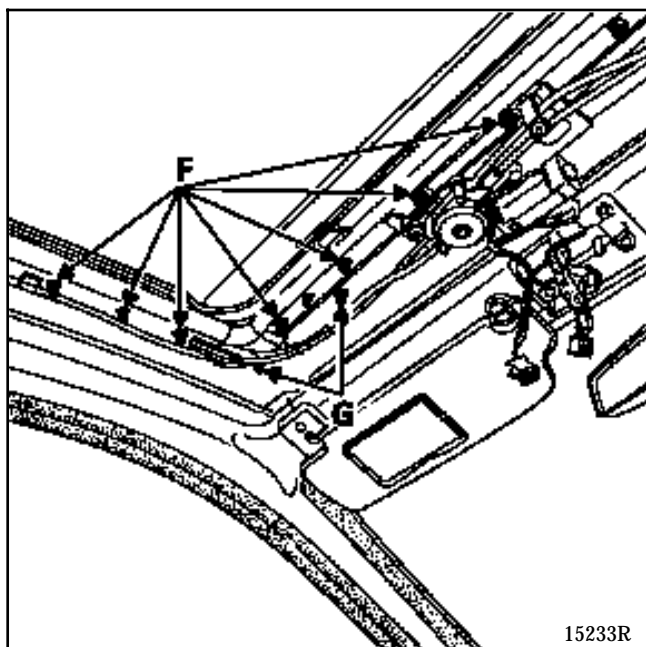


15223S

- Rear headlining:
- two strips of adhesive tape,
 - one strip of Velcro in the centre.

IMPORTANT: if one of these headlinings is torn at the contact surfaces with the securing strips of adhesive tape, it is essential that it is changed.

REMOVING THE FRAME AND COUNTER-FRAME




Remove the counter-frame mounting nuts (F) and the front mounting nuts (G) which secure the frame to the roof panel.

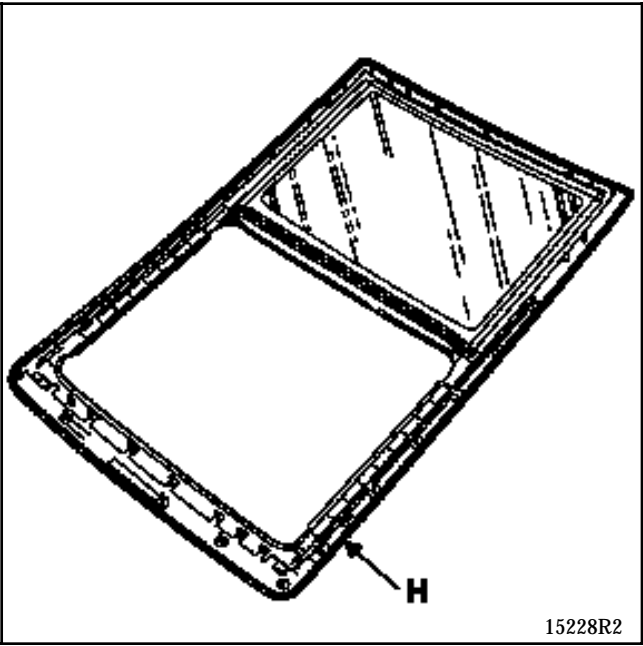
Remove the counter-frame/moving panel drive system assembly via the vehicle tailgate (two people are required for this operation).

Remove the sun roof frame (two people are required for this operation).

IMPORTANT: take care not to deform or scratch the roof panel during the removal operation. The frame centring pins and securing pins must be removed from their housings carefully.

REFITTING THE FRAME AND COUNTER-FRAME

TIGHTENING TORQUES (in daN.m)		
Frame mounting nut	0.4	
Counter-frame mounting nut	0.4	



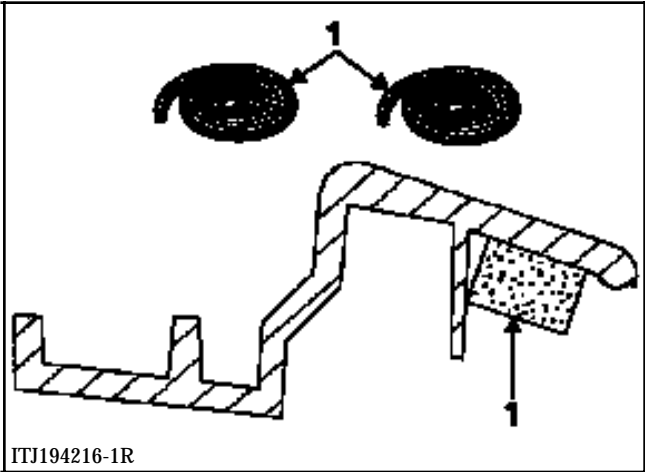
Every time the sun roof cassette is removed, the seal (H) must first be changed.

Two seals part number 77 01 044 946 must be ordered and fitted end to end on the frame sealing track.

Description of the operation:

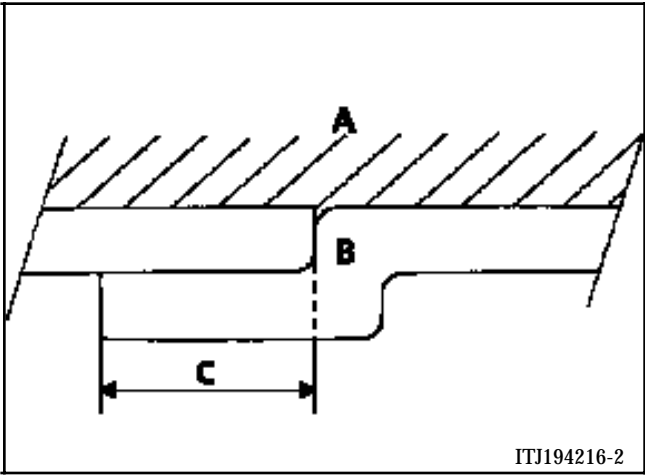
Remove the sealing bead (H) from the frame (frame-roof sealing) using a mastic knife.

Clean off the remains of this bead and degrease the contact surfaces of the seal on the frame and on the roof (Heptane type cleaner).



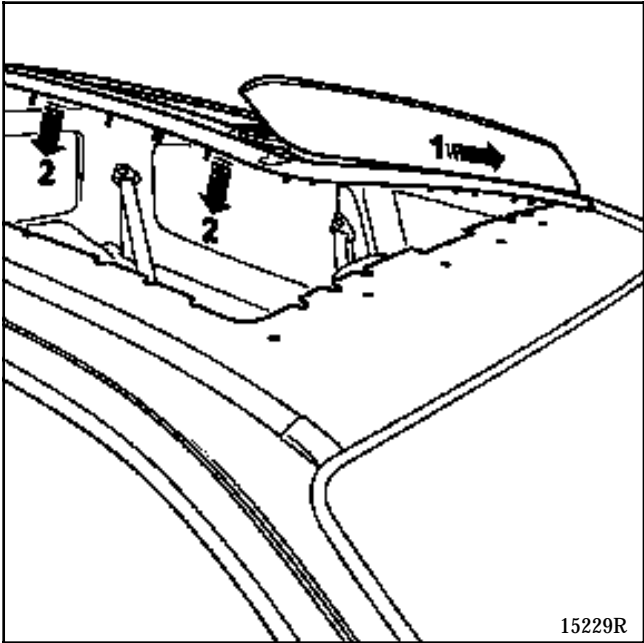
In place of the sealing bead, fit the two replacement **PVC** foam seals (1) sold as replacement parts on the frame.

Position the two **PVC** foam seals so that the four ends of the seals join at the sides and to the right of a securing stud.



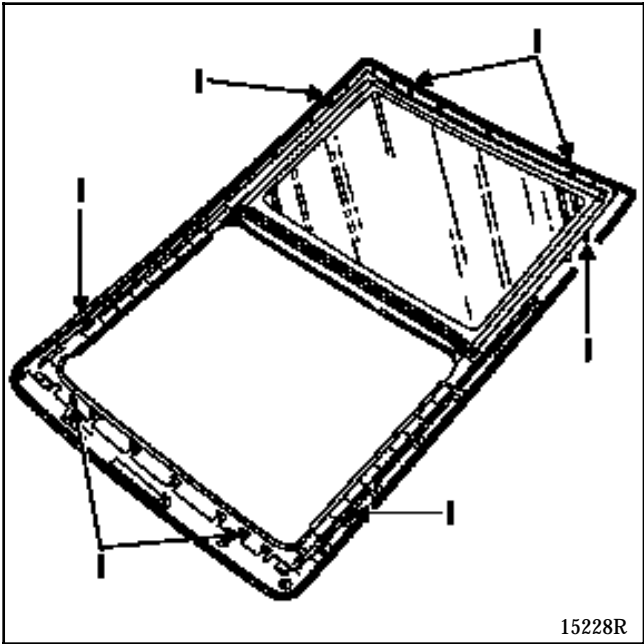
Joints of the four ends of the **PVC** foam seals:

- A Frame
- B **PVC** seal
- C Minimum **20 mm**



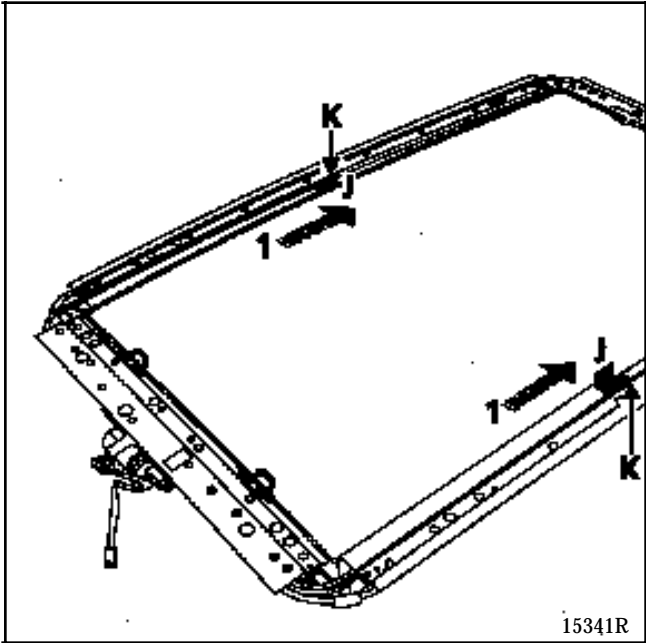
Offer up the fixed frame and the sliding glass panel above the roof.

Fit the frame offering up the left-hand side first. Fit this at (1) and fold down the right-hand side at (2).

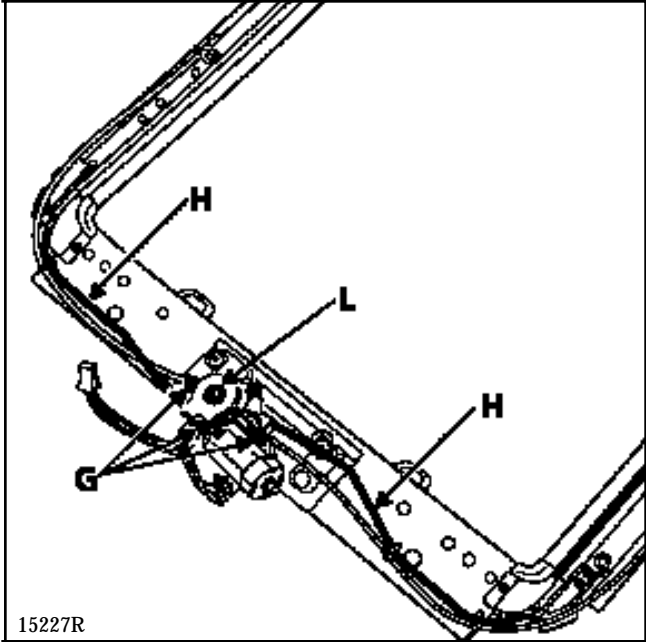


Guiding of the frame and its positioning are ensured by the guides (1) on the roof.

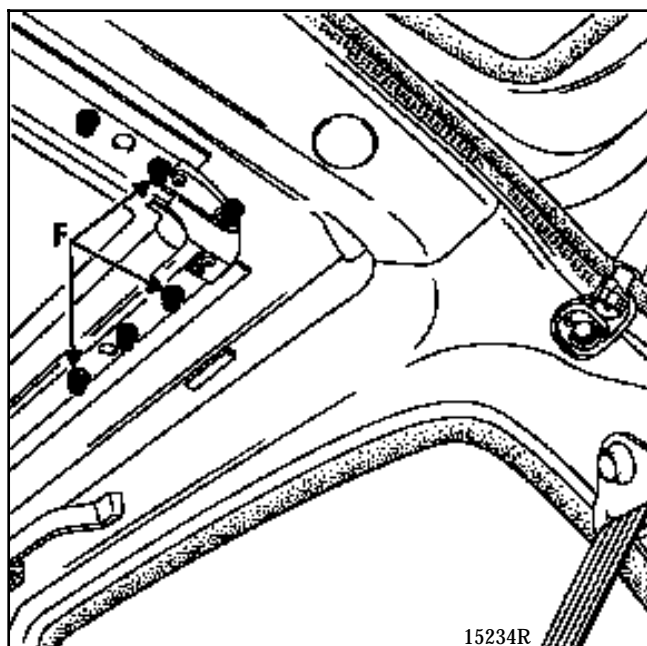
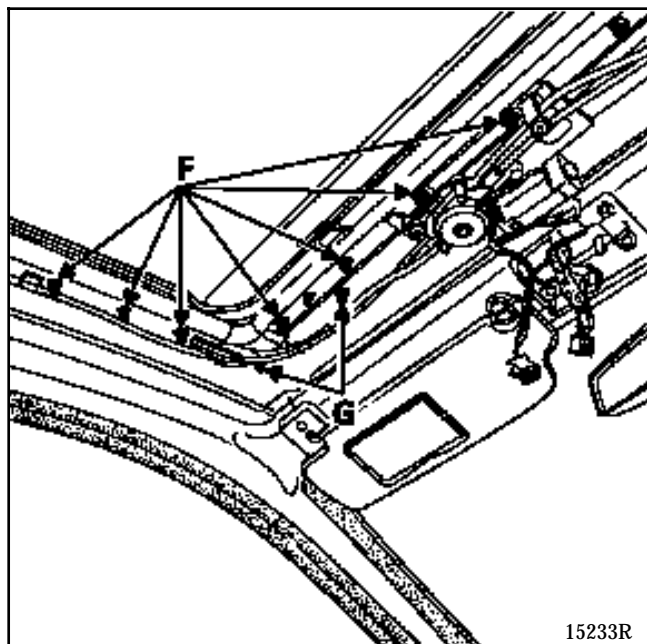
Fit the frame on the roof.



Before fitting the counter-frame and the frame, it is important to place the moving panel drive carriers (J) at the rear stop against the shims (K).



To move the drive carriers manually (J), operate the motor using a size 4 hexagonal spanner at (L).



Refit the front mounting nuts (G) which secure the frame to the roof.

Ensure that the sliding panel is open at the rear stop on the frame.

Offer up the counter-frame passing it through the vehicle tailgate (two people).

Guide the counter-frame using the fixed frame 10 mm diameter guides (I) and fit the counter-frame on the roof.

Refit the mounting nuts (F) which secure the frame to the roof.

VERY IMPORTANT: for reasons of sealing and prevention of roof deformation, it is essential to observe the order of fitting and tightening of the frame.

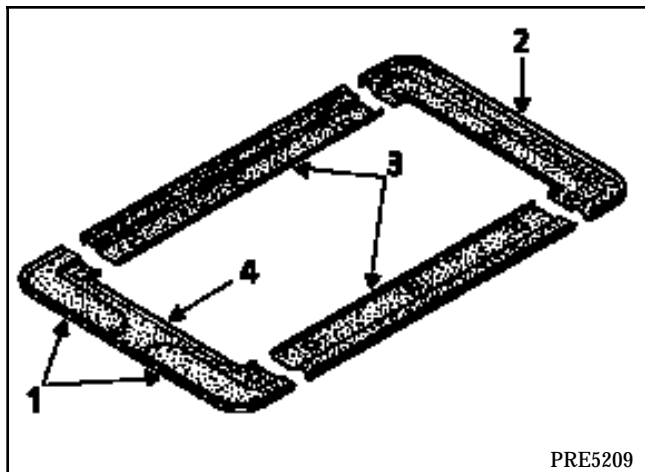
Order of tightening of the counter-frame:

- front section,
- rear section,
- starting with the mountings at the centre pillars of the vehicle).

NOTE: do not forget to reconnect the motor supply harness before refitting the headlinings and also carry out a sliding panel closing / opening test.

NOTE: it is not necessary to adjust the position of the drive motor to ensure the open and closed positions of the glass panel. It is sufficient to simply ensure that the drive carriers are in the same position on the counter-frame (if there is a problem, refer to section 52B).

REFITTING HEADLININGS



Offer up the front (1) and rear (2) headlinings first.

Fit each headlining against the edge of the sun roof frame and fold back the headlinings against the roof panel.

For the front headlinings, make an "**edge to edge**" join between the two left and right hand sections at the roof console (4).

Press on the headlining to correctly bond the two surfaces of the retaining strips.

Fit the side headlinings (3) in the same way covering the front and rear headlinings equally.

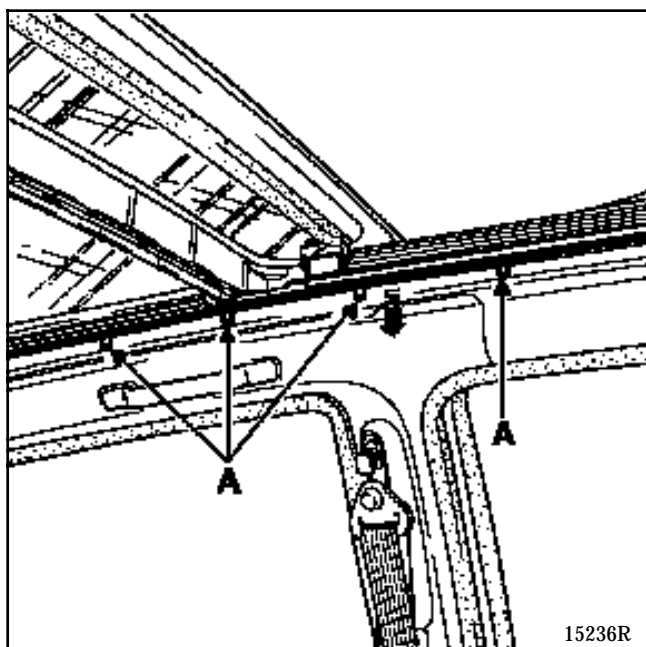
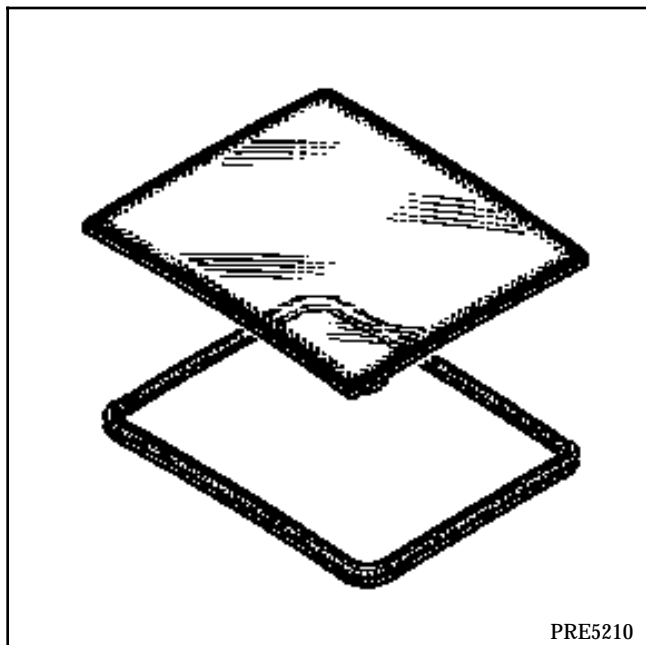
NOTE: if the body or the roof is changed, the original strips of adhesive tape must be cut as flush as possible with the headlining.

In place of the original strips of adhesive tape, fit three superimposed strips of adhesive tape **80 mm** long and **16 mm** wide part number **IXELL 77 11 170 134**.

Take care to remove the protective film between each layer of adhesive tape.

IMPORTANT: degrease the contact surfaces with the body.

REMOVAL

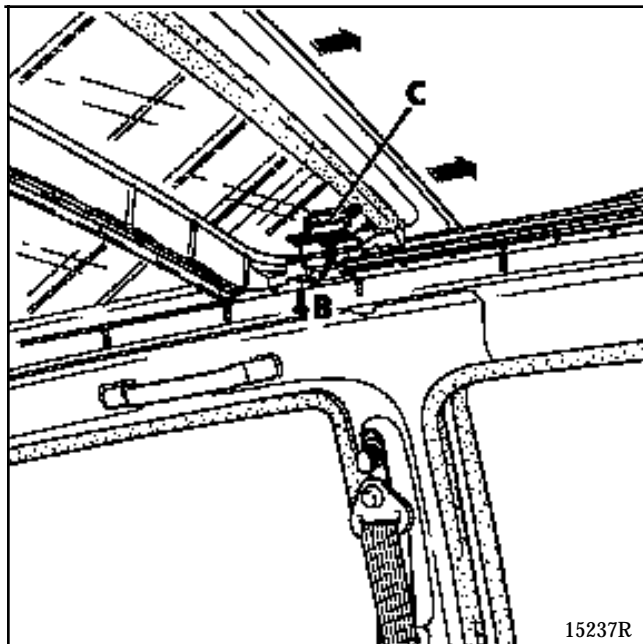


Before carrying out any moving panel removal operation, place the panel in the open position at the rear stop on the frame.

Remove:

- the roof console (see section 52A),
- the headlinings (see section 52A),
- the lock-nut and the drive system (mounting nuts (A), section 52A).

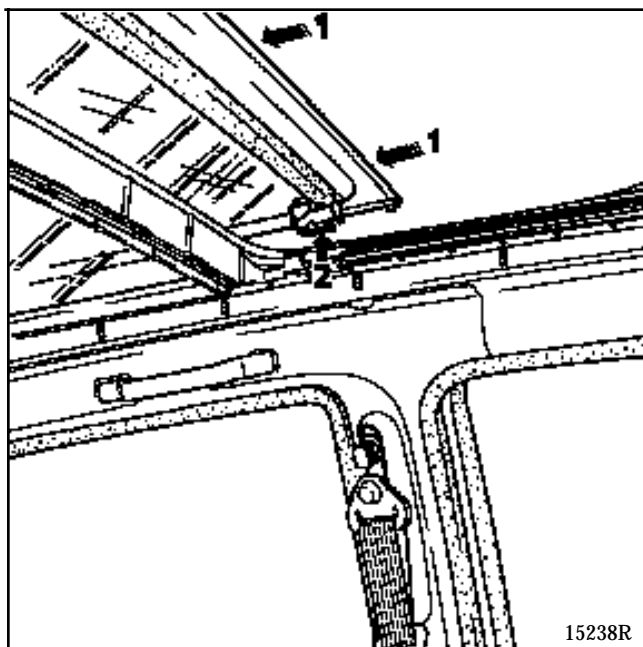
NOTE: it is not necessary to remove the frame mounting nuts.



Slide the moving panel slightly towards the front of the frame.

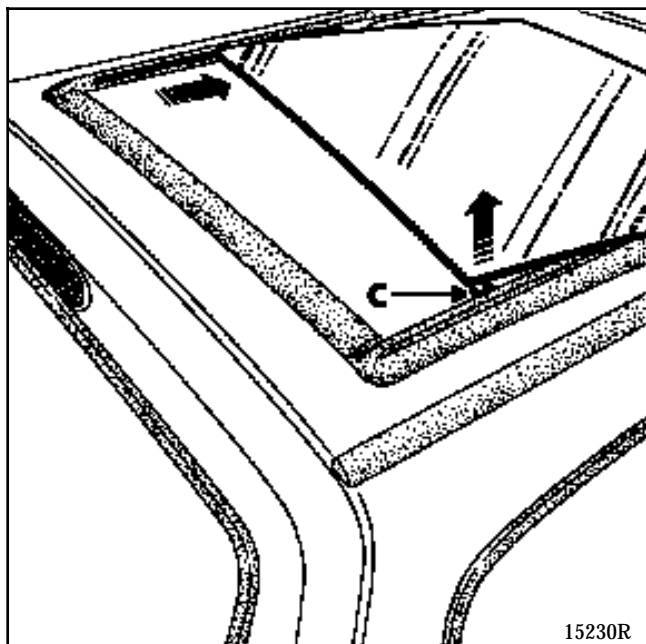
Remove mounting bolt (B).

Using a small, flat screwdriver, detach the metal plate (C) from its housing on the frame.



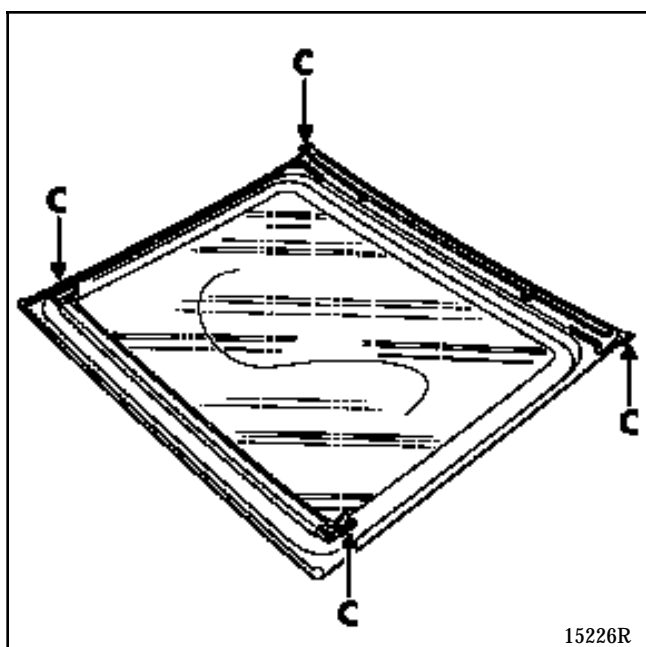
Slide the moving panel (1) to the far rear position.

Lift the panel to detach it (2) from the frame rails.

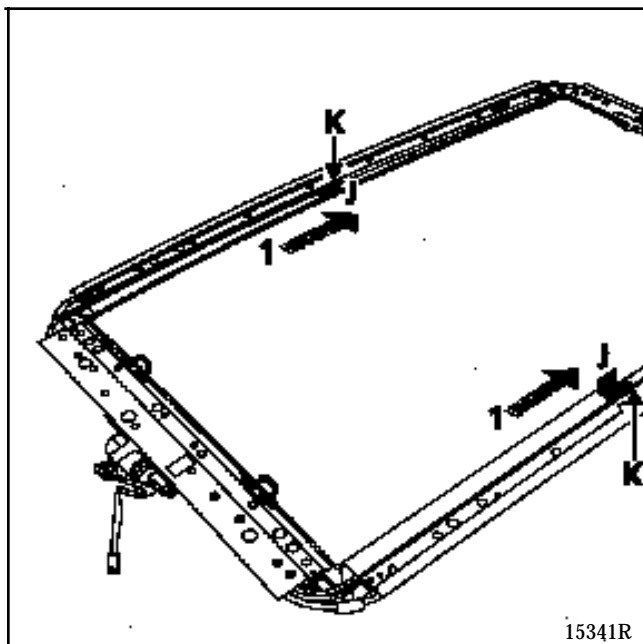


Position the panel at an angle in relation to the frame to detach each pad (C) from the frame rails.

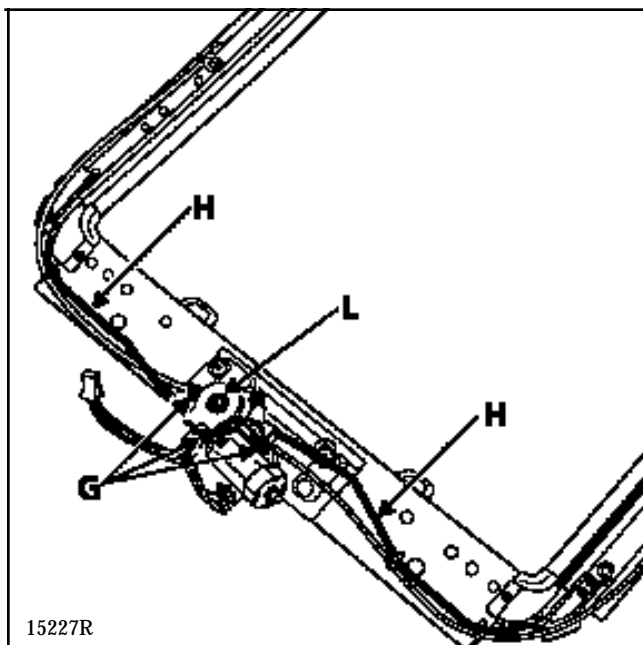
SPECIAL NOTES ON REFITTING THE MOVING PANEL



Before refitting the moving panel, ensure that the pads (C) are present.

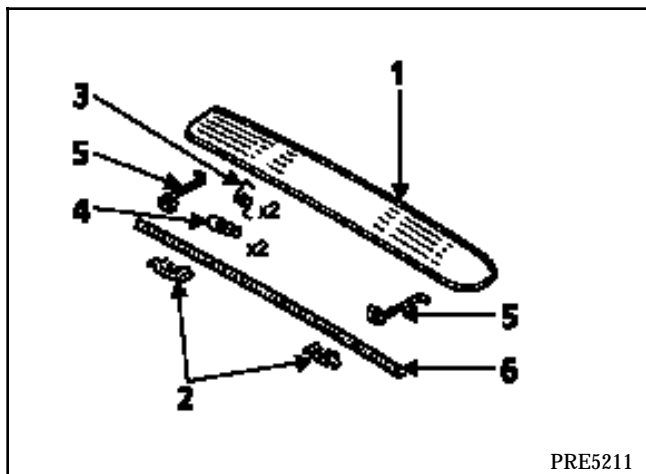


Also ensure that the counter-frame drive carriers (J) are both at the rear stop (1) against the shims (K).



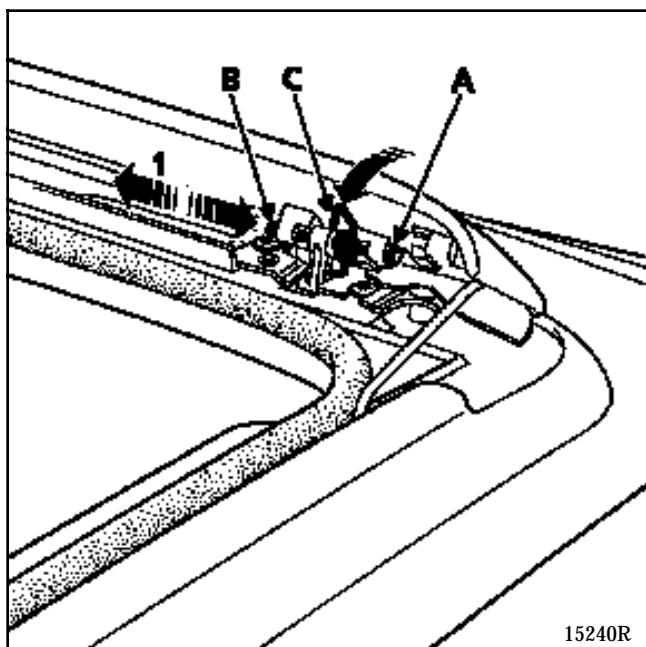
To move the drive carriers (J) manually, operate the motor using a size 4 hexagonal spanner at (L).

NOTE: if the carriers are offset, remove the drive motor (three mounting bolts (G)) and move the cables (H) using a flat screwdriver until the two carriers are at the rear stop.



- 1 Deflector
- 2 Link rods
- 3 Spring
- 4 Rotation pin
- 5 Side retaining rods
- 6 Adhesive strip seal

REMOVAL



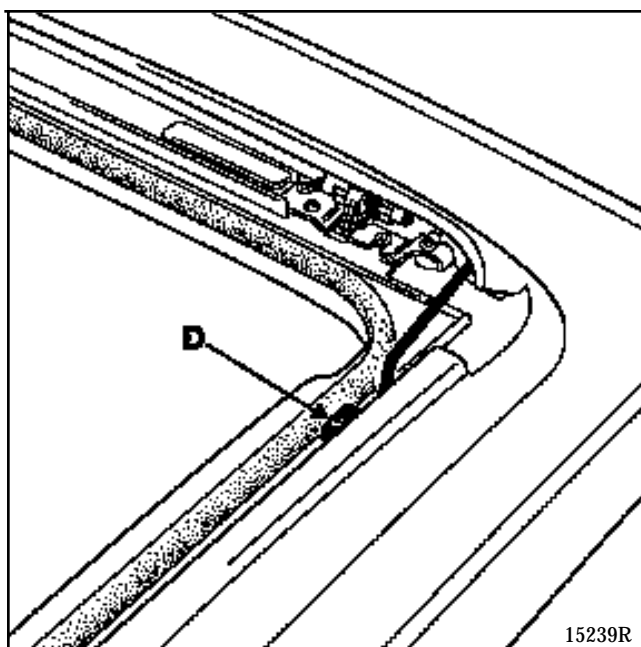
Open the moving panel.

Using flat needle-nose pliers, remove the stop sector (A).

Using a drift (maximum 3 mm diameter), detach (1) the retaining pin (B).

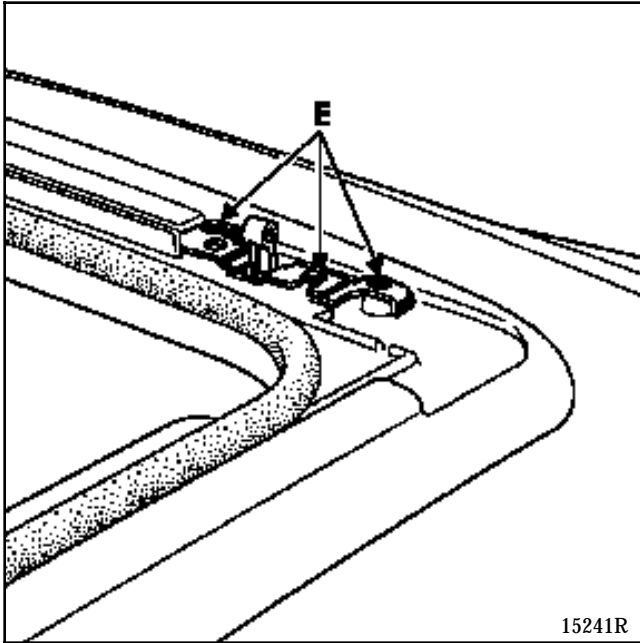
NOTE: take care, on removing pin (B), to recover the pressure spring (C).

Proceed in the same way to remove the second deflector rotation pin.



Remove the two deflector to frame side retaining rods (two mounting bolts (D)).

Remove the deflector.

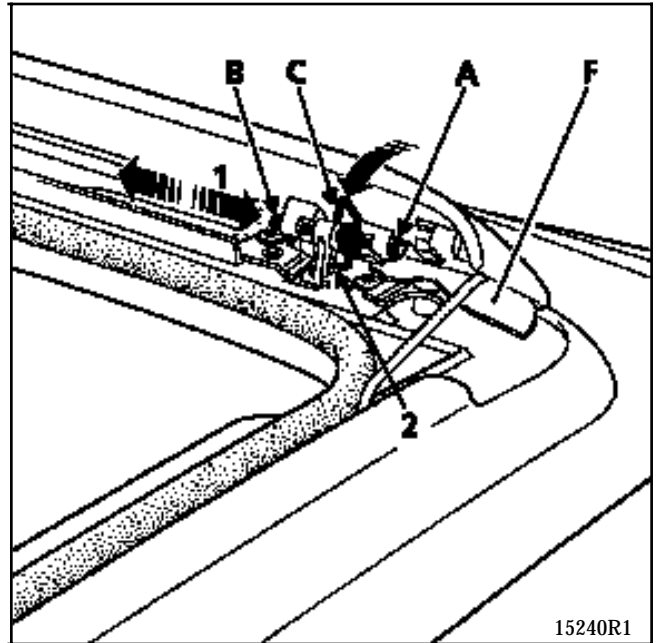


15241R

Following removal of the deflector as described above, remove bolts (E).

Remove the closing plate to detach the link rod from its housing on the frame.

REFITTING



15240R1

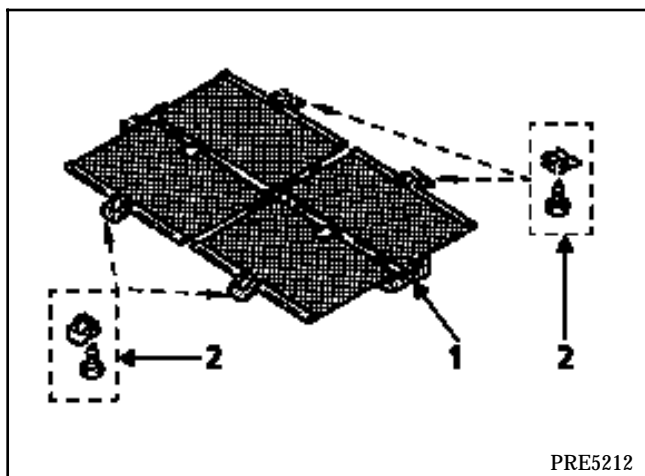
NOTES: when refitting pin (B), position the pressure spring (C) in the hole (2) of the link rod.

Press the spring against the deflector and engage the pin in the deflector and the link rod.

Ensure that the adhesive seal (F) on the lower section of the deflector is correctly folded back along its entire length towards the rear of the frame.

Refit the stop sector and the side rods.

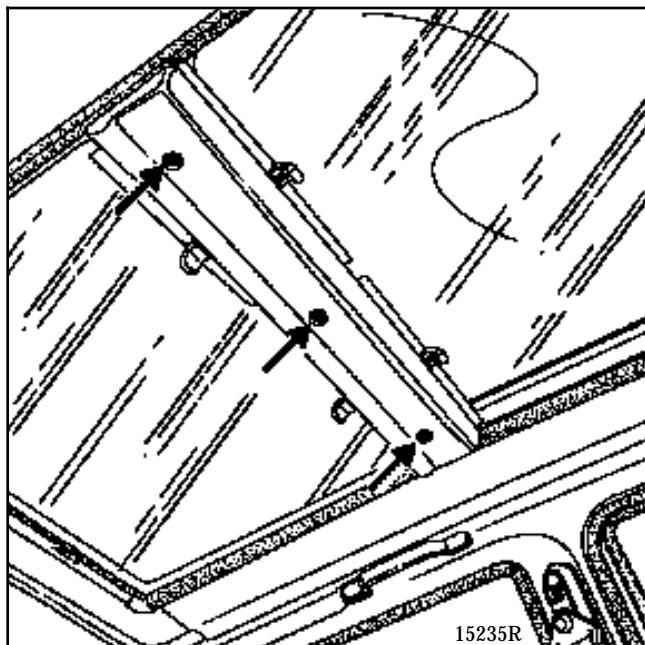
REMOVING THE BLINDS CASSETTE



The four blinds are supplied by the Parts Department assembled in the cassette (1).

It is not possible to carry out any repair operations on this cassette.

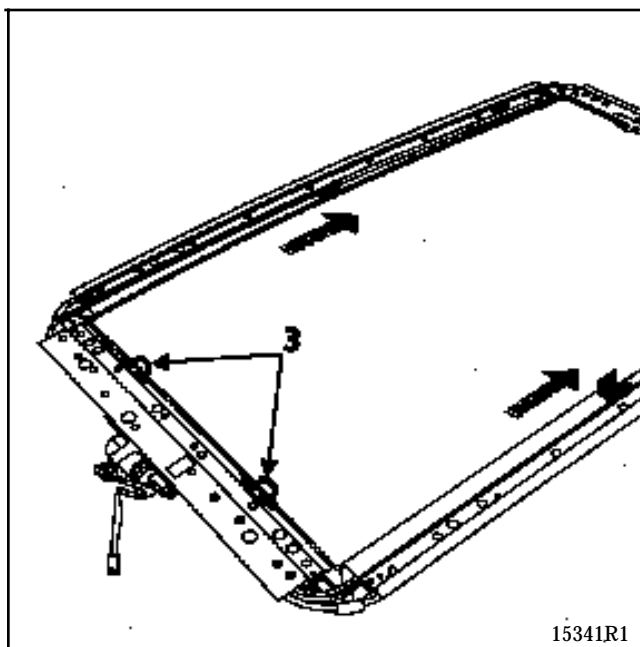
Only the blind handles (2) can be changed.



Remove the three cassette mounting bolts under the sun roof frame.

Remove the cassette.

REMOVING THE BLIND FASTENERS



Remove:

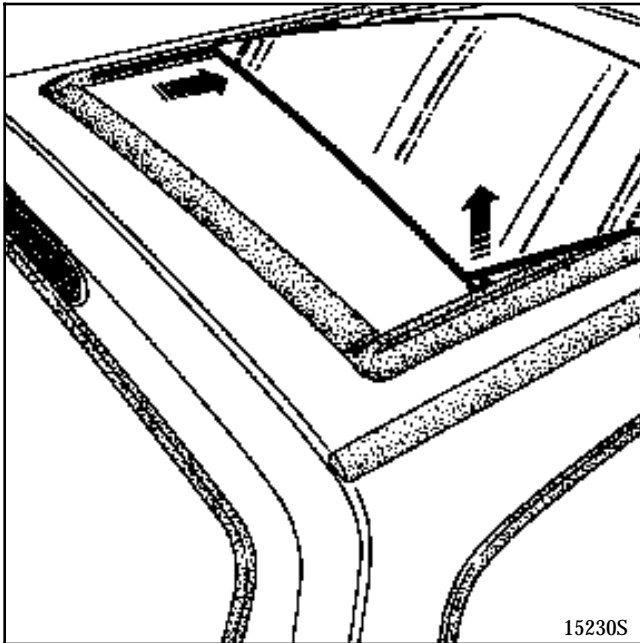
- the sun roof counter-frame (see section 52A)
- the mounting rivets (3) which secure the fastener to the frame.

REFITTING THE FASTENERS

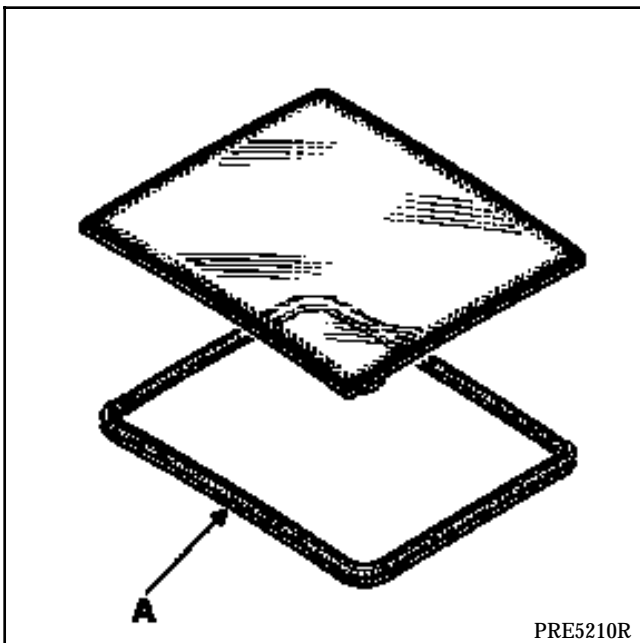
To refit a fastener on the frame, use the mounting rivet supplied in the Parts Department set with the blind fasteners.

Moving panel seal

REMOVAL

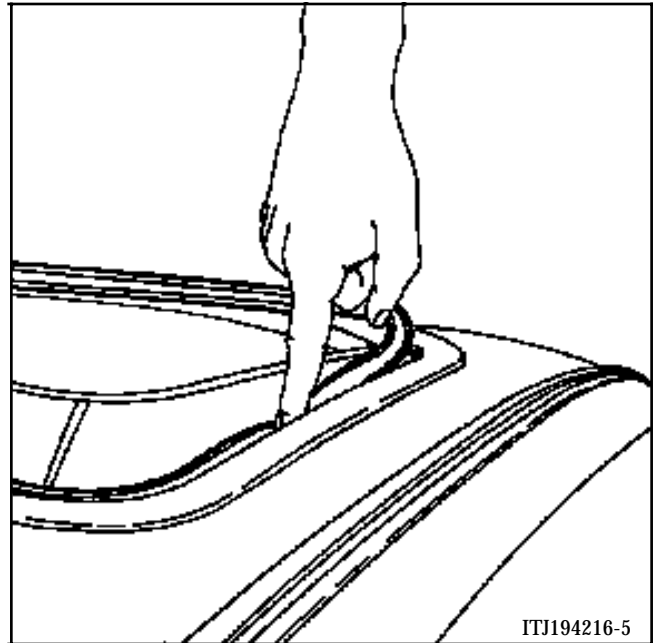


Remove the moving panel (see section 52B).



Remove the seal (A) from its housing on the frame groove.

REFITTING



Carefully clean the groove and the mating surface of the seal on the moving panel.

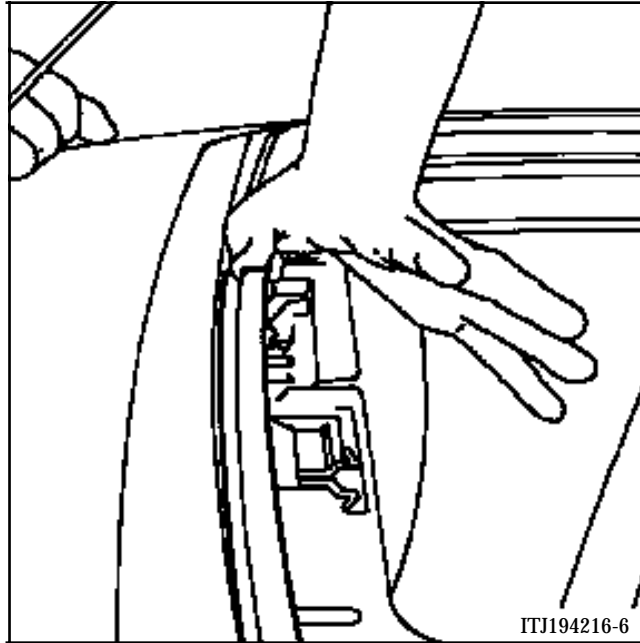
Moisten the heel of the new seal using soapy water.

Position the seal joint in the rear centre section.

NOTE: the upper lip must be directed towards the outside of the sun roof.

Fit the seal pressing on it vertically.

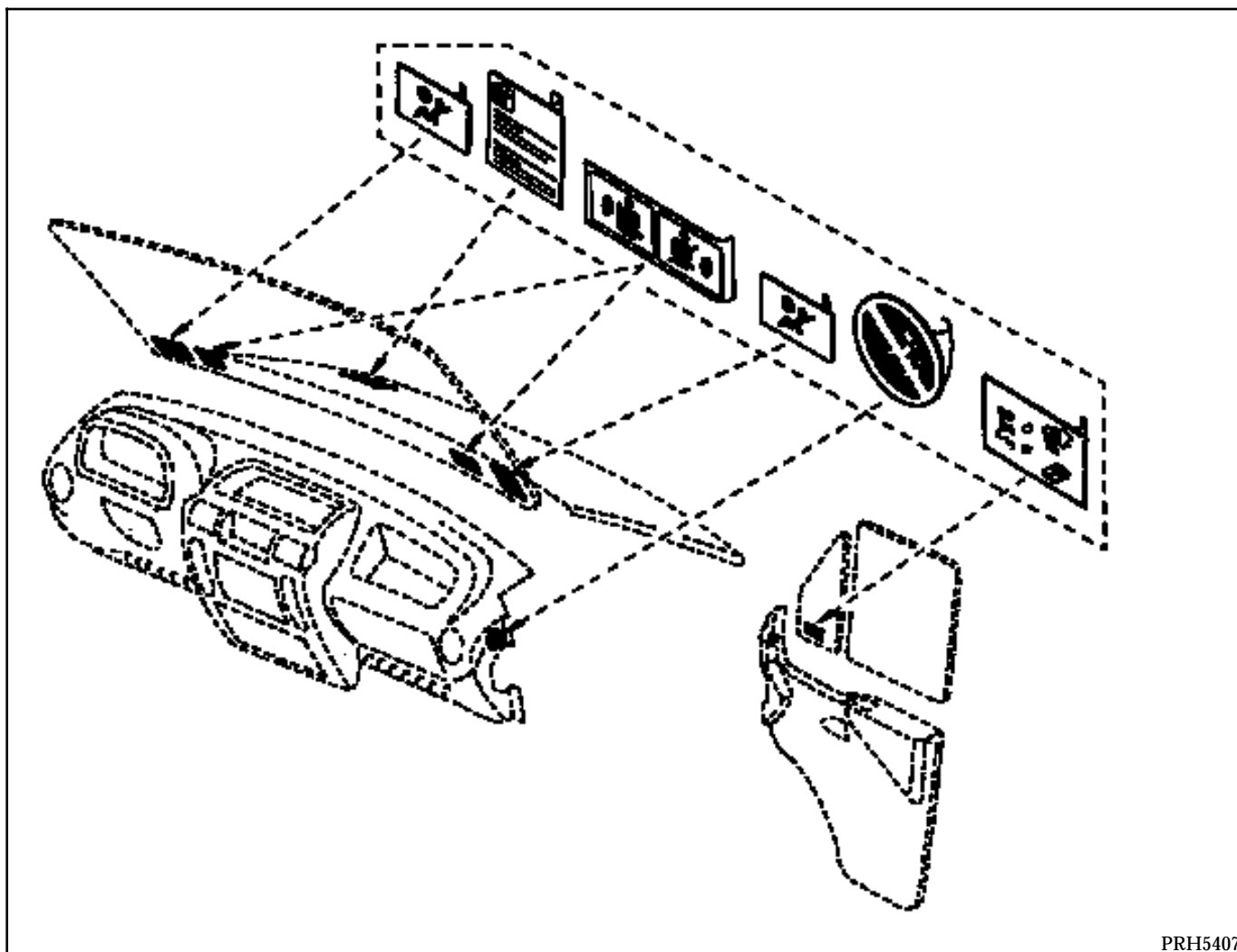
Moving panel seal



Smooth the seal well all around the edge of the frame to ensure that the heel is correctly fitted in the groove.

After refitting the moving panel, check that seal seals correctly.

SET OF AIR BAG LABELS



PRH5407

A vehicle fitted with a driver's air bag will be identified by a sticker placed in the lower corner of the windscreen on the driver's side.

If a passenger air bag is fitted, a second sticker is placed in the lower corner of the windscreen on the passenger and driver side.

All these labels are available in a set under part number **77 01 205 442**.

INSTRUCTIONS FOR FITTING SEAT BELT INERTIA REELS

IMPORTANT

These vehicles are fitted with a new group of passive safety components which includes amongst other things new front air bags and special front seat belts with a new programmed restraining system (SRP) (see note below).

The programmed restraining system is calibrated differently depending on whether or not the seat belts are to be fitted opposite an SRP air bag (it is essential to check the part number of each part before replacement).

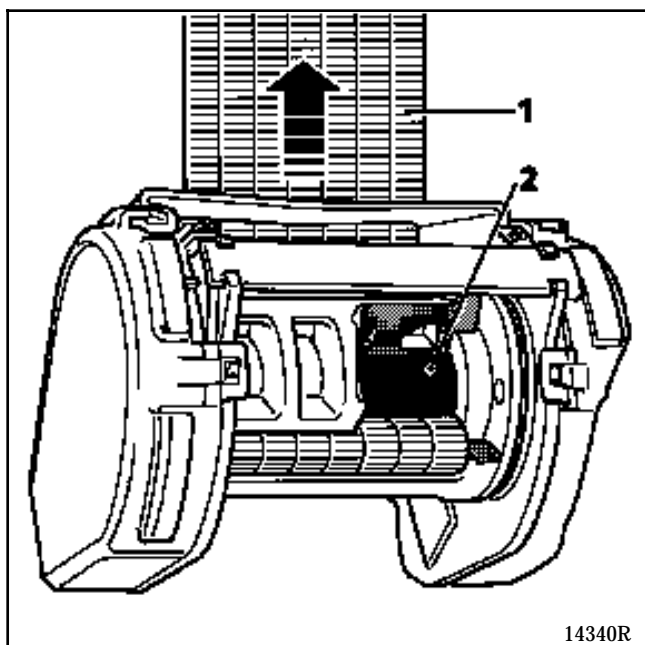
It is strictly prohibited:

- to fit the new SRP air bags and/or their special associated seat belts to vehicles fitted originally with an old assembly,
- to fit components which correspond to an old system to a vehicle fitted with this new restraining system.

NOTE: for further information about fitting the new **SRP** seat belts, refer to the notice below.

Following triggering of the pretensioners, the front seat belt(s) must be changed automatically if they were buckled during pretensioning (if there is any doubt about whether or not they were worn, they must be changed).

NOTE



New programmed restraining system **SRP**.

This new force limiting system **L.E.I.** has the special feature of being incorporated in the inertia reel.

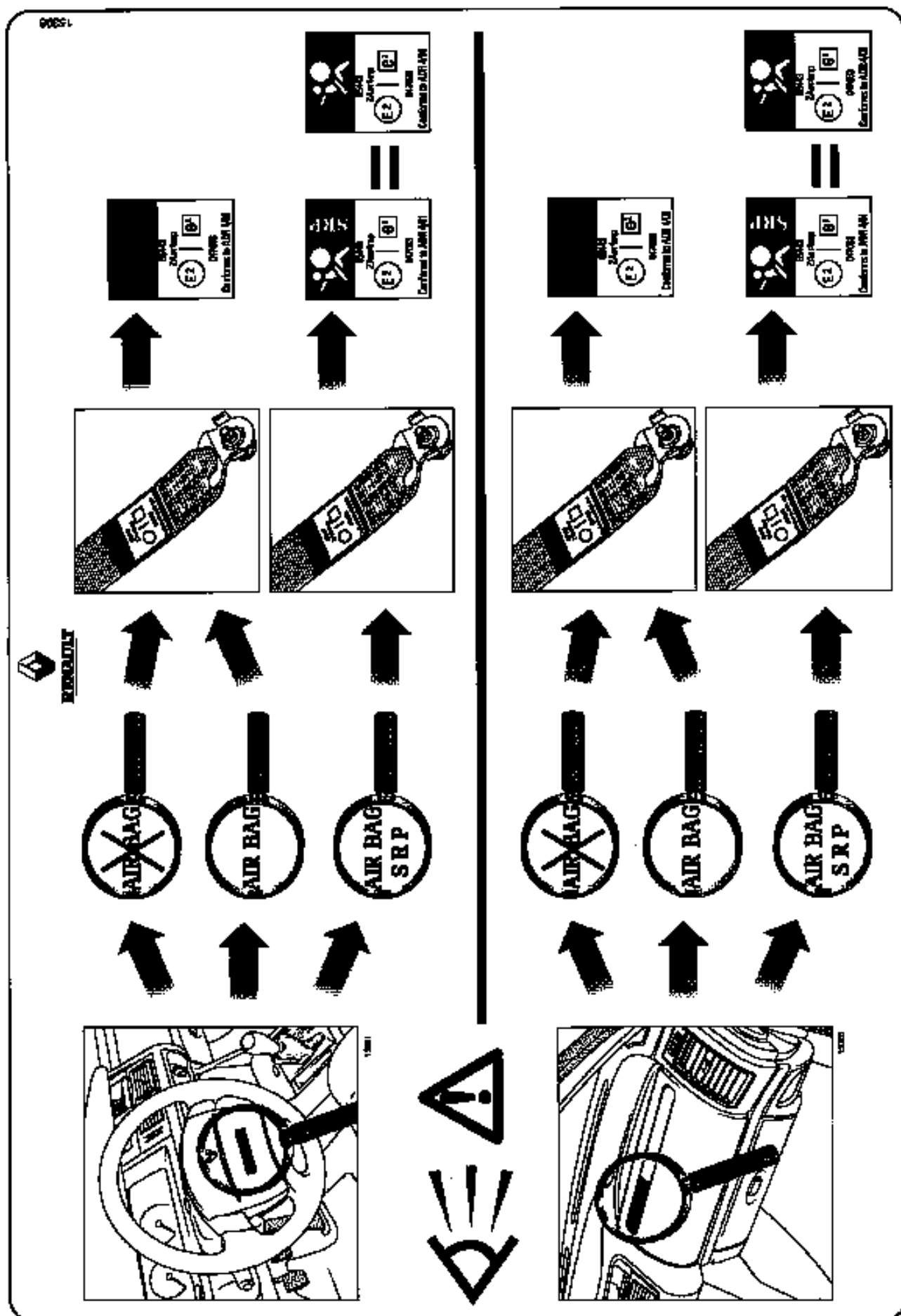
The force limitation is applied to the seat belt shoulder strap by controlled release of the strap (1), ensured by plastic deformation of a torsion bar (2) incorporated in the inertia reel coil.

INTERIOR SAFETY COMPONENTS

Front seat belts

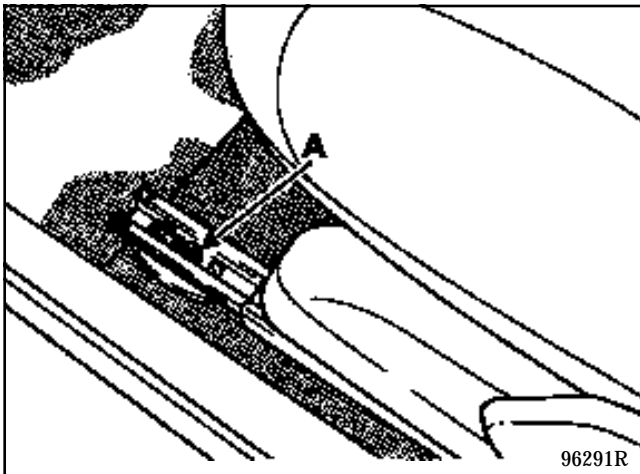
59

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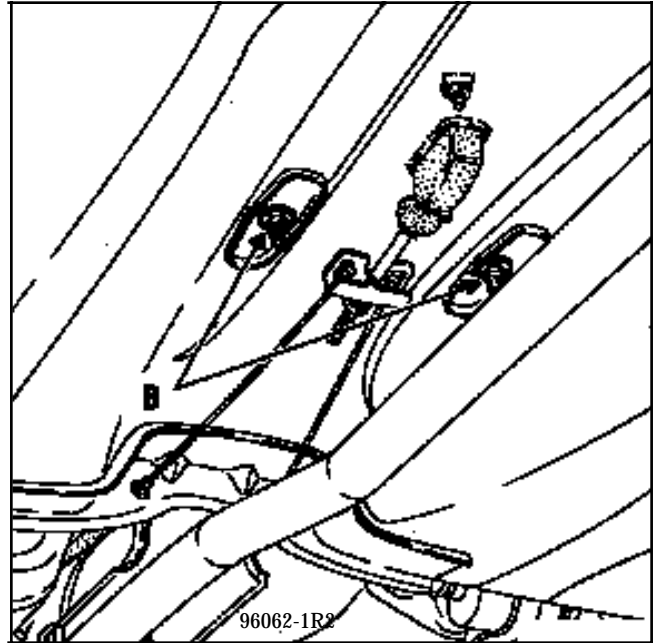


15396S

REMOVAL



Remove the side mountings (A).



Place the vehicle on a lift.

Remove the centre mountings under the body.

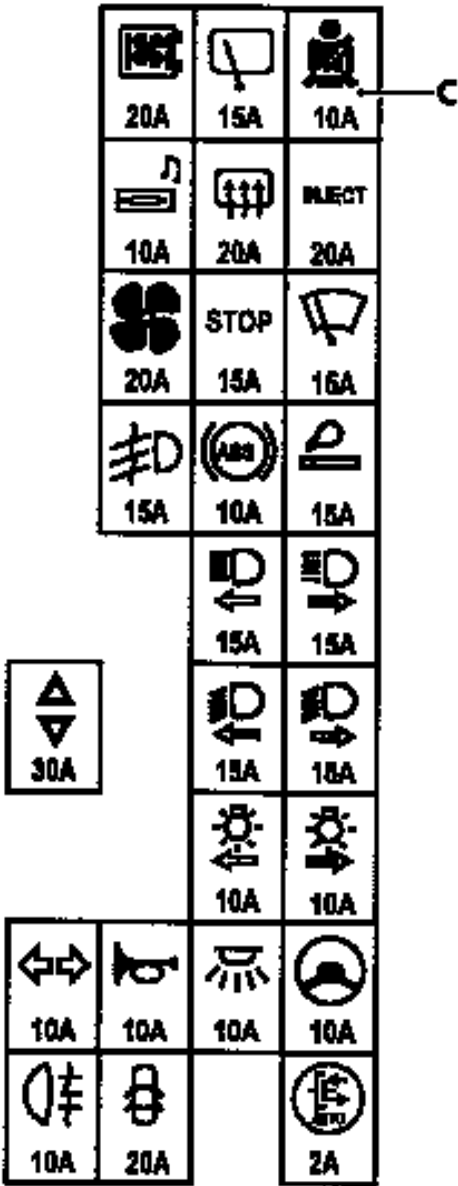
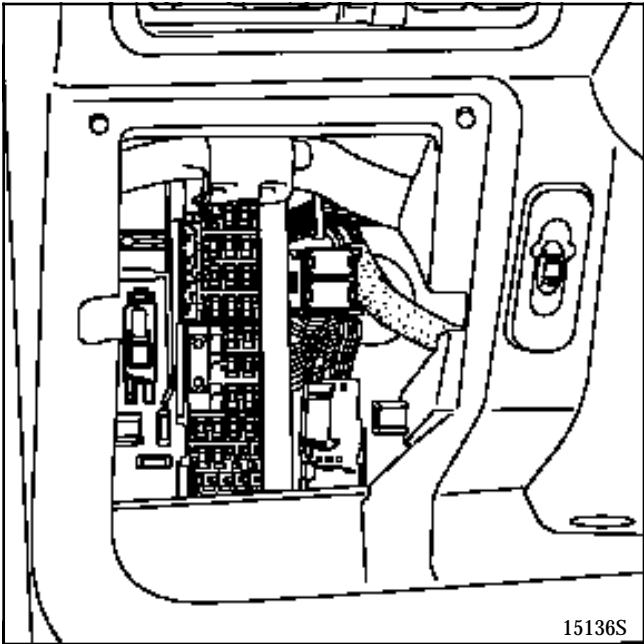


Disconnect the various harnesses under the seat cushion.

ATTENTION

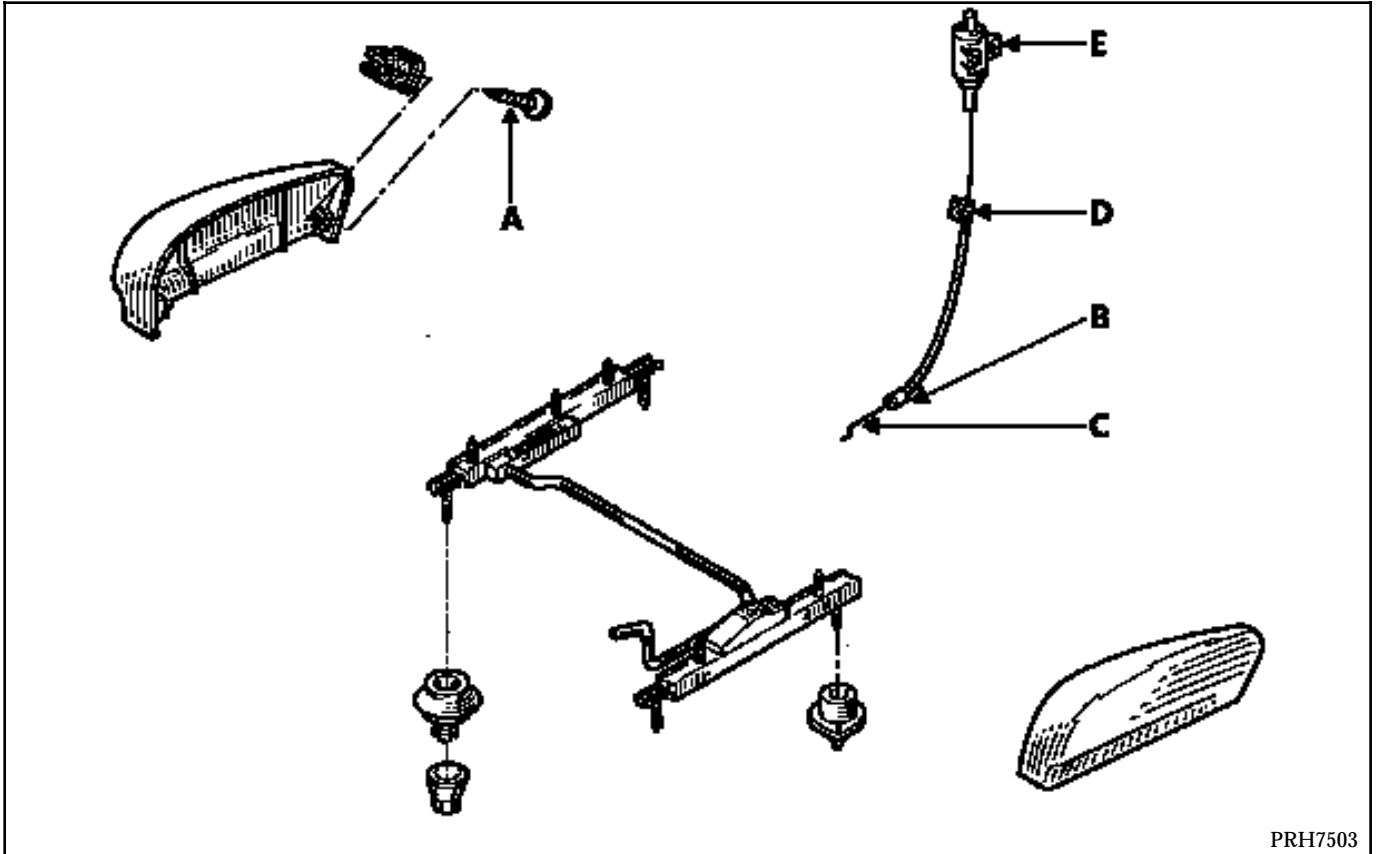
- When carrying out operations under the vehicle (exhaust, bodywork, etc.), do not use a hammer or do not transmit any impact to the floor without first removing the air bag fuse and waiting 2 seconds for the automatic discharge of the computer power reserve (fuses with instrument panel symbol).
- When installing an after sales service electrical accessory (loud speaker, alarm unit or any equipment which could generate a magnetic field), this must not be fitted in the immediate vicinity of the air bags/pretensioners computer.

To gain access to the fuses, remove the storage compartment on the driver's side by tilting it completely.



12803S

Remove the air bag fuse (C).



PRH7503

Remove the seat (see section 75A).

REMOVE

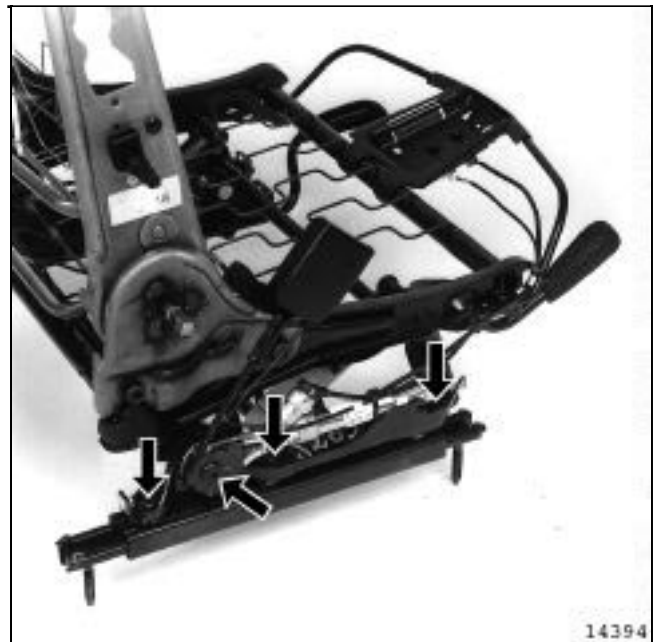


15266

Interior side:

Remove:

- the slide cover (bolt (A)),



14394

- the seat pretensioner.

Remove the three slide mounting nuts.



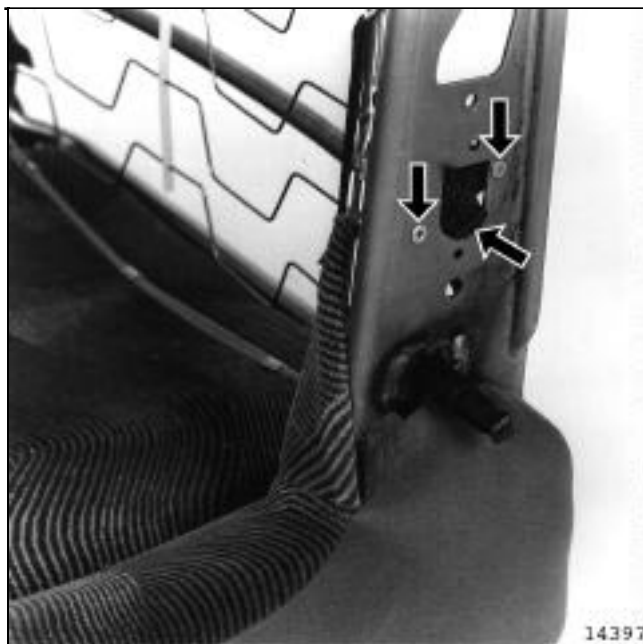
Exterior side:

Remove:

- the slide cover,
- the slide release control cable (if fitted).

Remove:

- the cable stop from the retaining lug on the slide (B),
- the end of the cable on the slide control hook (C),
- the two mounting nuts which secure the slide to the seat height adjuster.
- the cable sleeve (D) upper mounting plate rivet (see previous page).



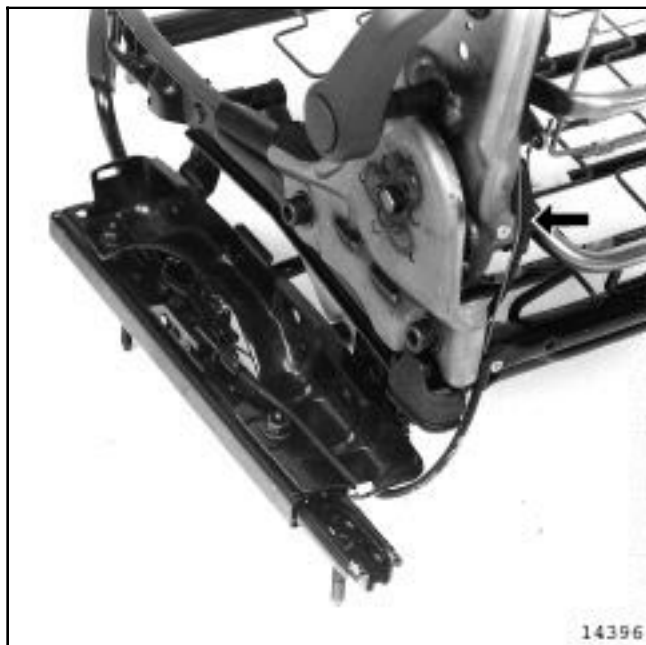
REMOVAL OF UNIT (E) AND OF THE SLIDE RELEASE CONTROL CABLE

Remove the control cable as described above.

Strip the seat backrest (see section 77A).

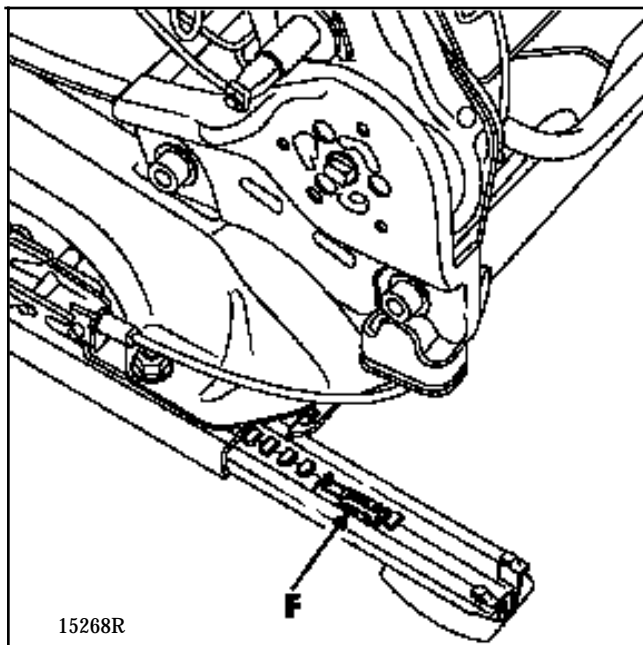
Remove the two mounting rivets and unclip the unit from the seat backrest frame.

REFITTING



Ensure that the control cable is in the plastic return lug groove before refitting the trim on the seat backrest.

SEAT POSITION MEMORY



NOTE: the seat slide which is equipped with the slide release control system is fitted with an indexing finger (F) secured in the slide rail.

This finger slides freely in the slide and permits marking of the position of the slide before the release operation.

When the seat is tilted, the slide engages at the finger (F).

To ensure that it is present in the event of incorrect operation of the system, move the seat back to the slide stop and tilt the seat backrest.

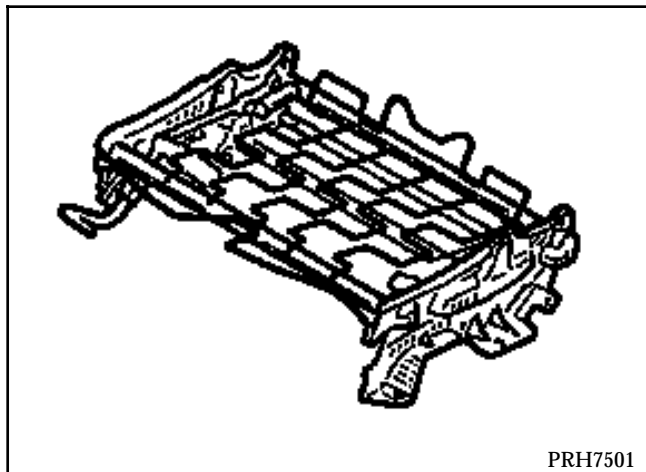
Push the seat to the front slide stop.

The metal finger (F) and its pressure spring can be seen if present.

FRONT SEAT FRAMES AND SLIDES

Height adjuster and seat cushion frame

75 C



Remove:

- the seat (see section 75A),
- the slide cover,
- the slides and the release control cable (if fitted) (see section 75B),
- the seat cushion trim (see section 77B),

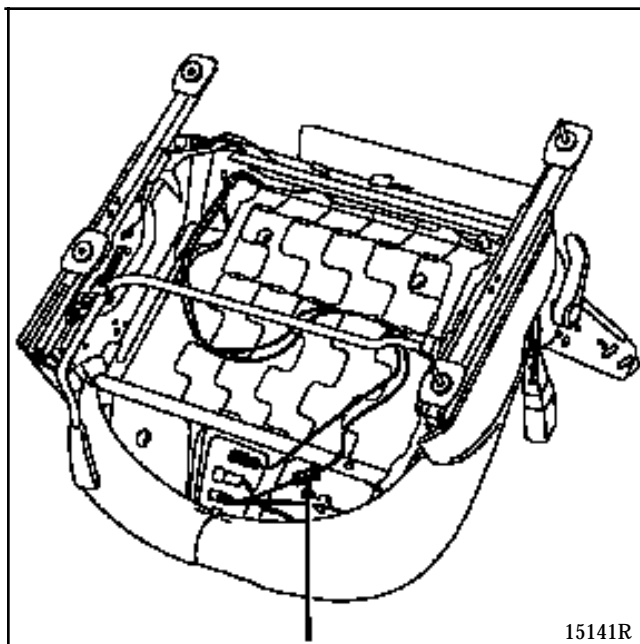


- the mounting bolts which secure the backrest frame to the seat height adjuster.

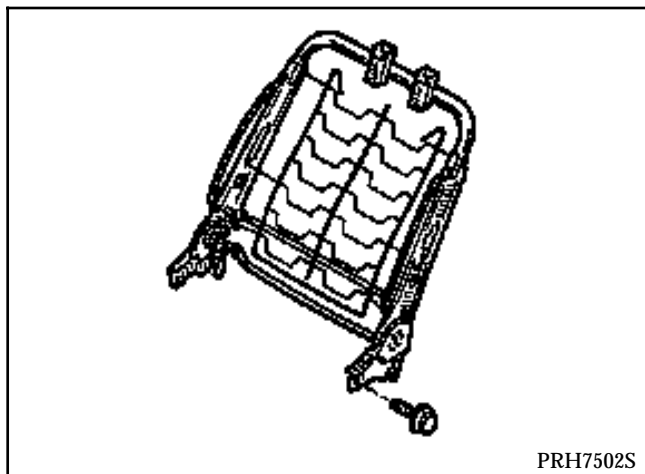
Remove the backrest frame.

SPECIAL FEATURES OF SEATS WITH SIDE AIR BAG MODULE

Detach the air bag module wiring and its earth wire after disconnecting its connector (I) (mark the route of the wiring).



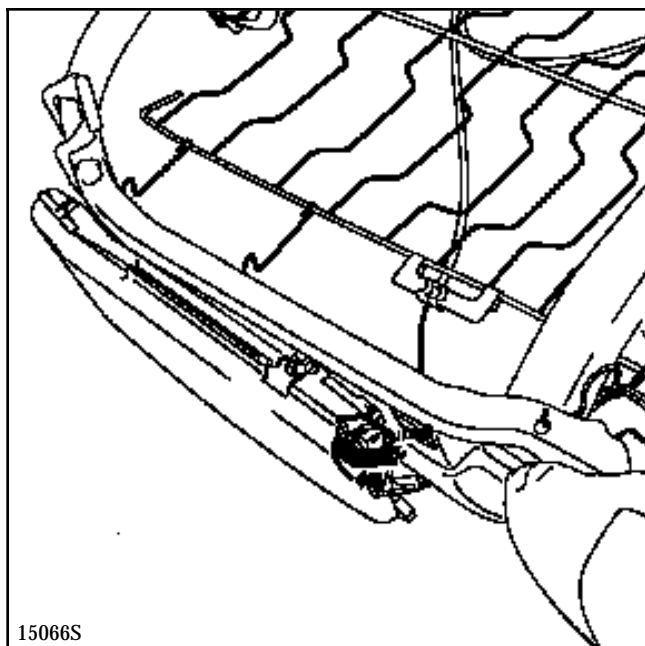
REMOVAL



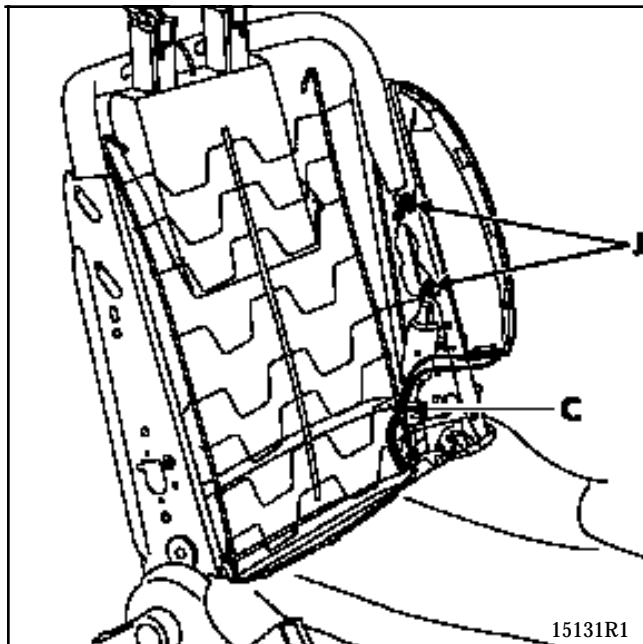
Remove:

- the seat (see section 75A),
- the backrest trim (see section 77A),
- the head restraint guides (see section 79A).

SPECIAL FEATURES OF SEATS WITH SIDE AIR BAG MODULE



Release the retaining clip using a small, flat screwdriver. Remove the ignition module wiring connector.



Remove the air bag by means of its two nuts (J).

Detach the wiring (C).

IMPORTANT: if the system has not been triggered and must be refitted, do not open the air bag module. The inflatable bag is specially folded.




Remove the mounting bolts which secure the backrest frame to the seat height adjuster.

Remove the backrest frame.

REFITTING

Secure the air bag module to the seat backrest frame.

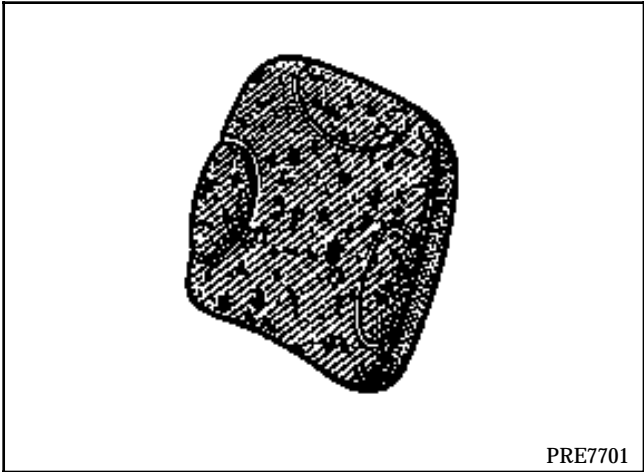
TIGHTENING TORQUE (in daN.m)	
AIR BAG module mounting nuts	1

IMPORTANT: when the side air bag module is triggered, the deformation and the damage to the mountings means that the seat must be changed automatically.

FRONT SEAT TRIM

Backrest trim

77A



INTRODUCTION

NOTE: the seat backrest trim is heat bonded onto the seat foam. Thus, if the backrest trim is to be changed, the backrest trim/foam assembly must always be changed.

REFITTING



Remove:

- the seat (see section 75A),
- the seat tilting handle.

For this handle, extract the clip in the centre of the handle using a small flat screwdriver taking care to place it in the notch provided for this purpose.

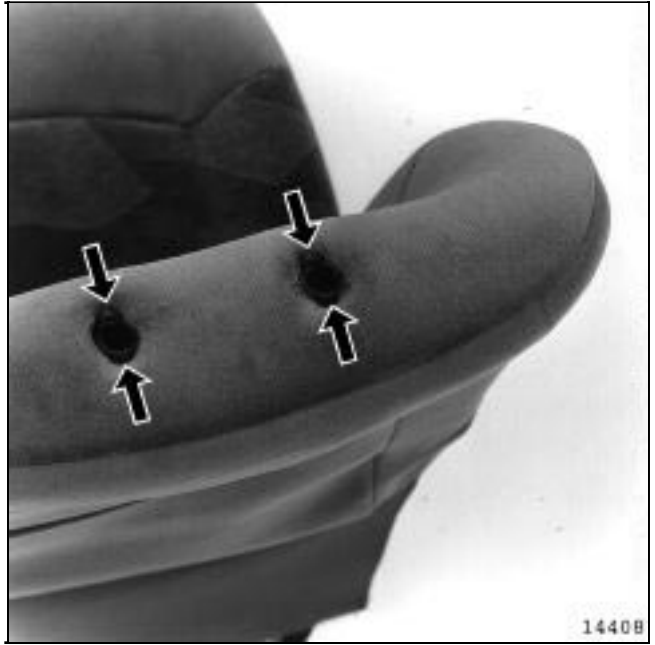
FRONT SEAT TRIM

Backrest trim

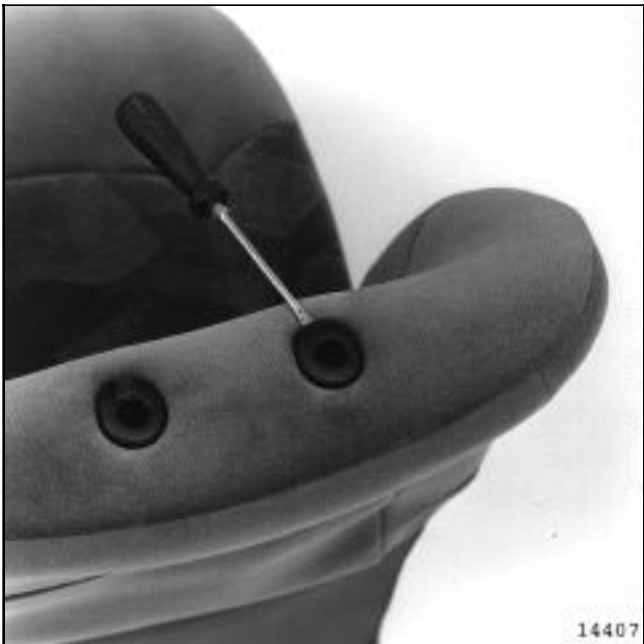
77A



Remove the two pieces of elastic which retain the trim on the metal cord of the seat cushion frame.



Remove the trim from the two retaining plates of each head restraint guide.



Remove the head restraint and the head restraint guide upper covers.



Pass the retaining strap in front of the backrest between the seat cushion trim and the backrest trim.

FRONT SEAT TRIM

Backrest trim

77A

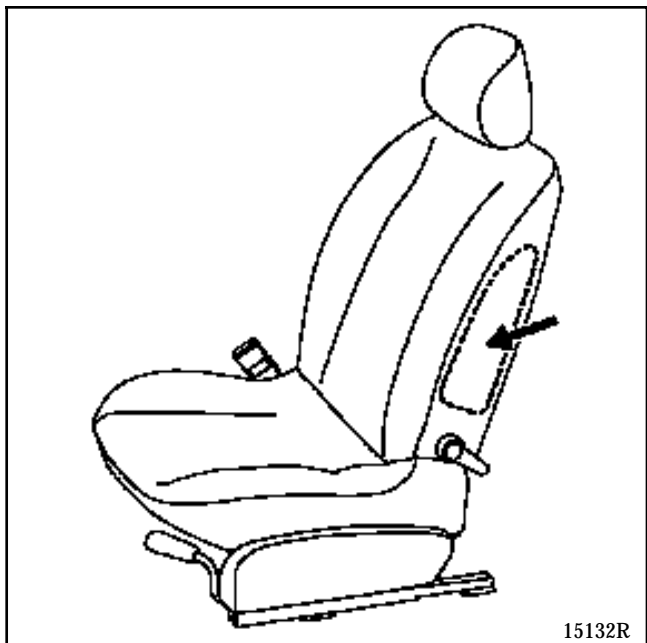


Remove the three "C" clips which secure the backrest foam to the metal cord.

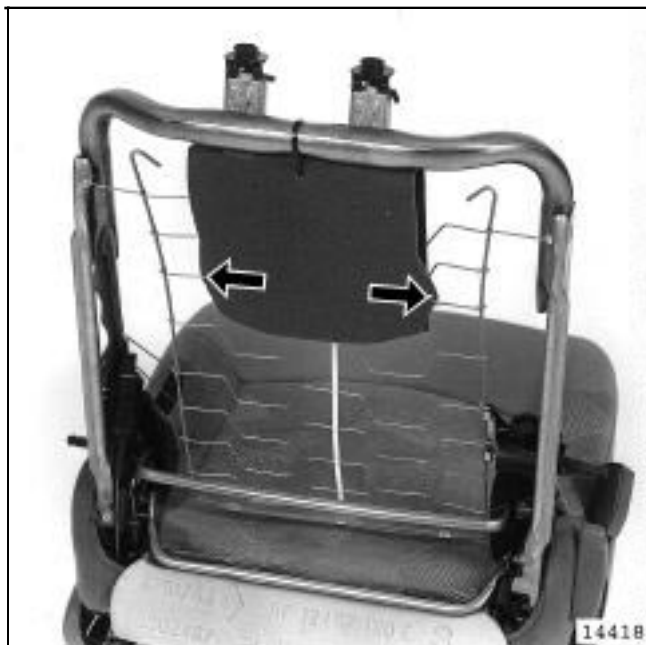
Lift the trim to remove it from the backrest frame.

NOTE: on removal, take care not to tear the foam at the head restraint guides.

IMPORTANT: if the seat is fitted with a side air bag module, take care during the removal operation not to tear the foam in the area in which it comes into contact with the module.

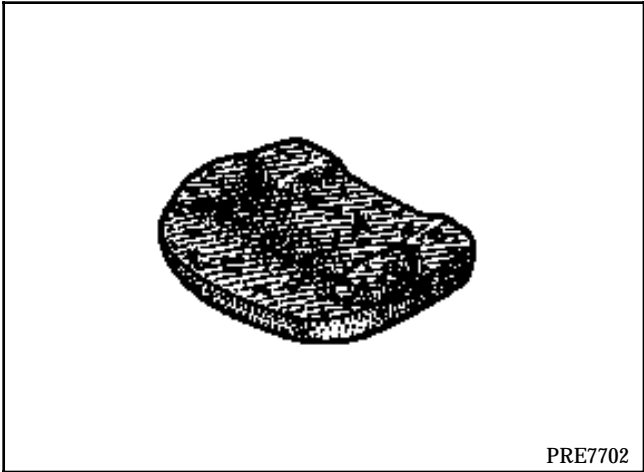


REFITTING



When refitting the trim, ensure that the head restraint guides material protective plate remains in place during the operation.

WARNING: seats fitted with side air bags have special trims. If these components are changed, ensure that the new parts ordered are of the correct specification.



INTRODUCTION

NOTE: the seat cushion trim is heat bonded to the seat foam. Thus, if the seat cushion trim is changed, the seat cushion trim/foam assembly must always be changed.

REMOVAL



Remove:

- the seat (see section 75A),
- the two slide covers,
- the seat backrest inclination adjustment handle.

For this handle, extract the clip in the centre of the handle using a small flat screwdriver taking care to place it in the notch provided for this purpose.



Remove the two pieces of elastic which retain the trim on the metal cord of the seat cushion frame.



Pass the retaining strip in front of the backrest between the seat cushion trim and backrest trim.



Lift the retaining strip of the rear section of the seat backrest trim to gain access to the "C" clip which secures the two sides of the seat cushion trim.



Using clip release pliers, remove the trim retaining clips at the rear of the seat.

Using a small, flat screwdriver, move aside the trim retaining cord tensioner stop.

Remove the tensioner automatic locking tie wrap.



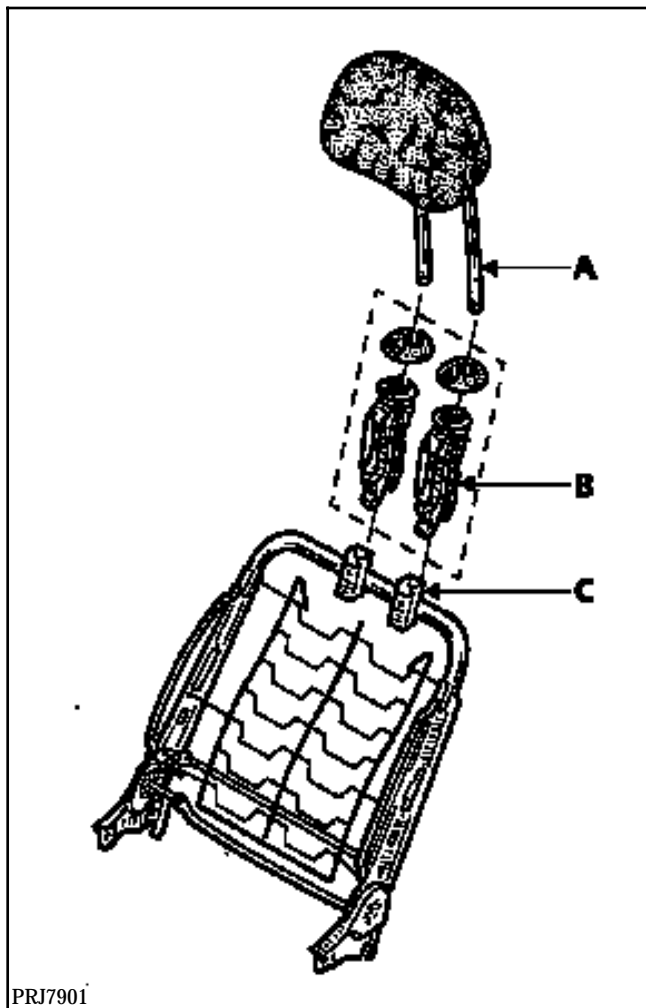
Detach the trim from the two connector support plastic clips.



Remove the trim lugs from their housing on the seat cushion frame.

Lift the seat height adjustment control bar and remove the seat cushion trim/ foam assembly.

INTRODUCTION



This new type of head restraint permits:

- greater height adjustment travel for adaptation to all sizes,
- a reduced head / head restraint distance to correctly restrain the head in the event of a rear impact.

These head restraints have curved metal rods (A) seated in plastic covers (B). These covers provide the anti-ejection system and the head restraint adjustment.

NOTE: these covers must be removed and refitted carefully to guarantee the head restraint safety functions.

Each seat is fitted with a cover assembly with a pull control and simple cover which are fitted in the pins (C) of the backrest frame.

IMPORTANT: to avoid damaging the covers when removing the head restraint, it is essential to follow the instructions described below.

SEAT ACCESSORIES

Head restraint for comfort and safety

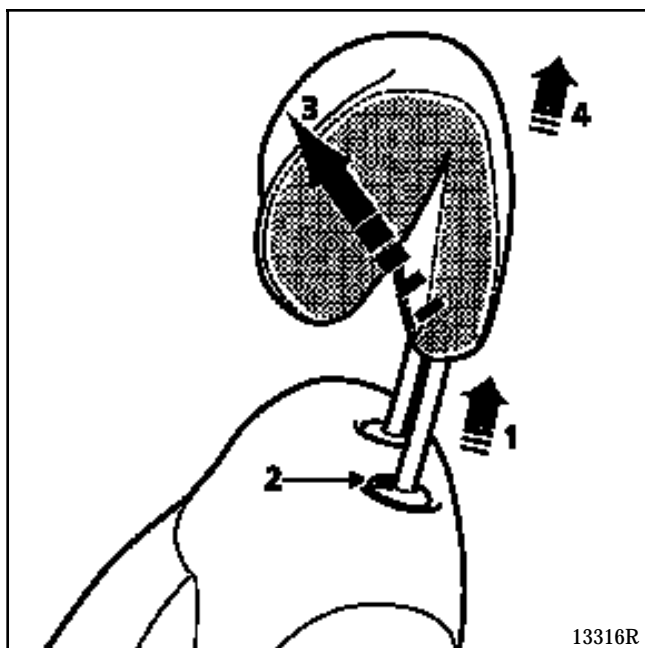
79 A

REMOVAL

Remove:

- the seat (see section 75A),
- the seat backrest trim (see section 77A).

REMOVING THE HEAD RESTRAINT



Sit in the back of the vehicle.

Tilt the seat backrest slightly.

Adjust the head restraint to its highest position (1), pushing it slightly forwards.

Lift the plastic pull control (2) and hold it up.

Lift the head restraint while pushing firmly forwards (3), as for height adjustment.

Release the plastic pull control (2) when release is noticed.

Lift the head restraint (4) until the rods are completely extracted.

REFITTING

Position the two head restraint rods in the moving caps of the covers.

Exert a pressure downwards on the head restraint to inset it into the covers without forcing it.

When it locks (obtained by a click), lower the head restraint maintaining a forwards pressure.

WARNING

When extracting or engaging the rods, be sure to seat them carefully in the covers until they lock.

When offering up the ends of the rods, the moving heads of the covers must be sufficiently aligned with the guides secured on the frame to permit extraction or engaging of the rods.

Any removal or refitting using force during this phase of the removal or refitting operation could destroy the covers.

REMOVING THE COVERS



Remove:

- the head restraint (as described above),
- the seat.

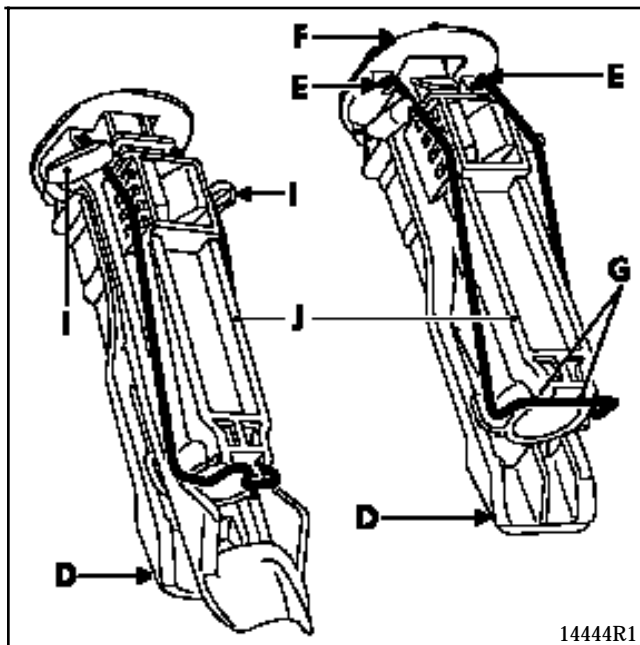
Unclip the upper caps of the covers.

Remove the seat backrest trim.

Push on the two retaining lugs (D) (see illustration below).

Extract the covers from the metal pins on the frame by pushing upwards.

REFITTING THE COVERS



First ensure that the two arms of spring (E) are correctly seated in the under cap (F) and clipped onto the cover body at (G).

If this is not the case, push the under cap (F), (moving section with hinges) forwards to fit the spring at (G).

With the assembly fitted, push the under cap back towards the rear.

Engage each cover in the respective pins of the backrest frame without using any tools and without inserting them using force.

NOTE: each cover has a fool-proofing notch (J) which makes it impossible to invert the fitting of the covers in the pins.

Push down until the retaining lugs (D) are clipped onto the pin.

Each cover must have its tabs (I) which rest all along their length, on each side of the pin.

<p>IMPORTANT: if one of the tabs (I) is broken, it is essential to change the cover.</p>

<p>WARNING: When refitting the covers, ensure that the protective strip of felt is positioned correctly.</p>

<p>This should be on the front surface of the metal braid of the backrest frame.</p>
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Refit the trim on the seat and fit the head restraint.