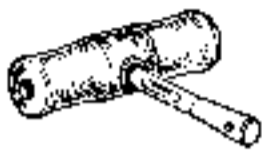
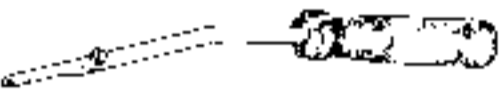
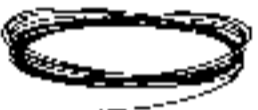
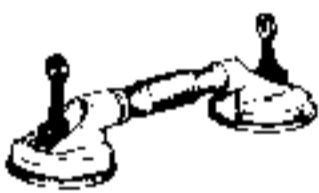

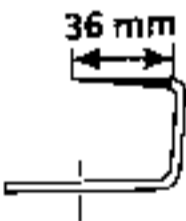
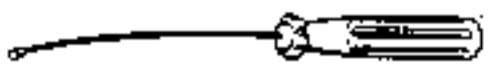


Recommended tooling for replacing windscreens or rear screens

	Description	Supplier's Reference	Approval no. M.R. 500 **
87 270 	Pulling handle		
87 270 	Holding tool	STHALWILLE STW 10351	55 70 00
87 270 	Roll of cutting wire (piano wire)		
87 274 	Pair of suction pads for fitting windscreen and rear screen.	STOKVIS VALOREM BF 802 STW 10352	58 23 00 55 70 01
92 529 	Electric knife for removing windows		
92 523 	Blade for windscreen (top section) ref.639 03 079 012	FEIN	600 500

SPECIAL TOOLING

	Description	Renault Reference	Part Number
88 700 	Wire routing needle	Car. 1033	00 00 103 300

BONDING WINDOWS

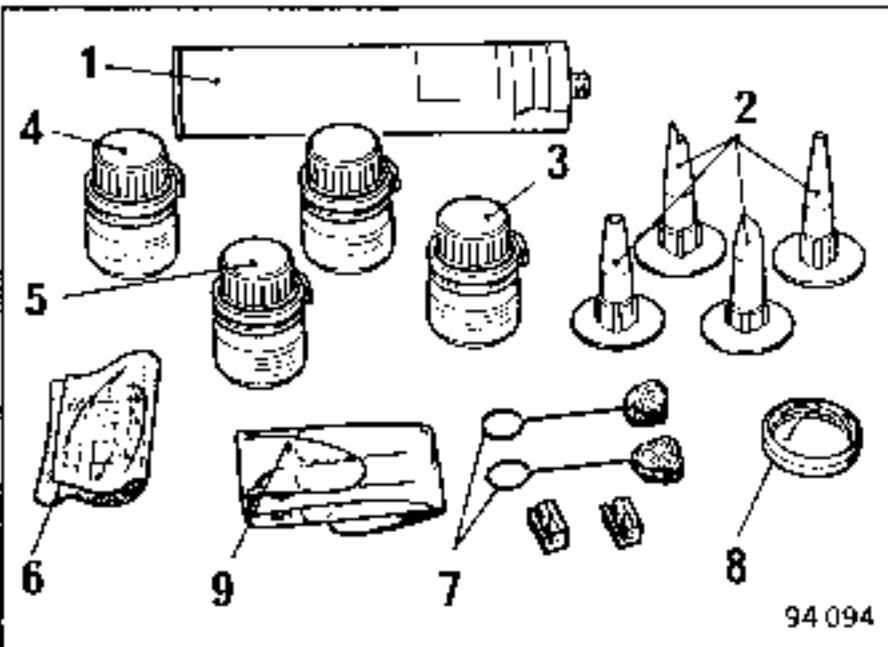
(see section entitled "WINDOWS/Screens - windscreen").

ONE-POT PRODUCT

Part No. 7701202273

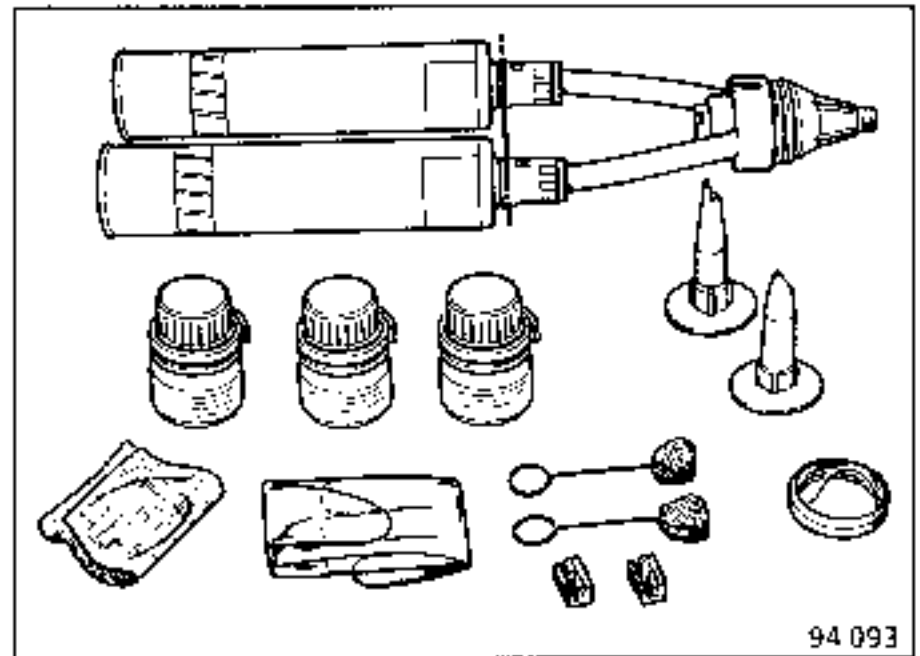
Contents of kit:

- 1 Cartridge of mastic ref. GURIT BETASEAL 71904HV3
- 2 Cut out nozzle for triangular section
- 3 Bottle of glass primer ref. GURIT 8413211
- 4 Bottle of metal primer ref. GURIT 435-46
- 5 Bottle of degreasing agent ref. GURIT VP 04 604
- 6 Special degreasing cloth
- 7 Primer caps
- 8 Cutting wire (piano wire)
- 9 Pair of gloves



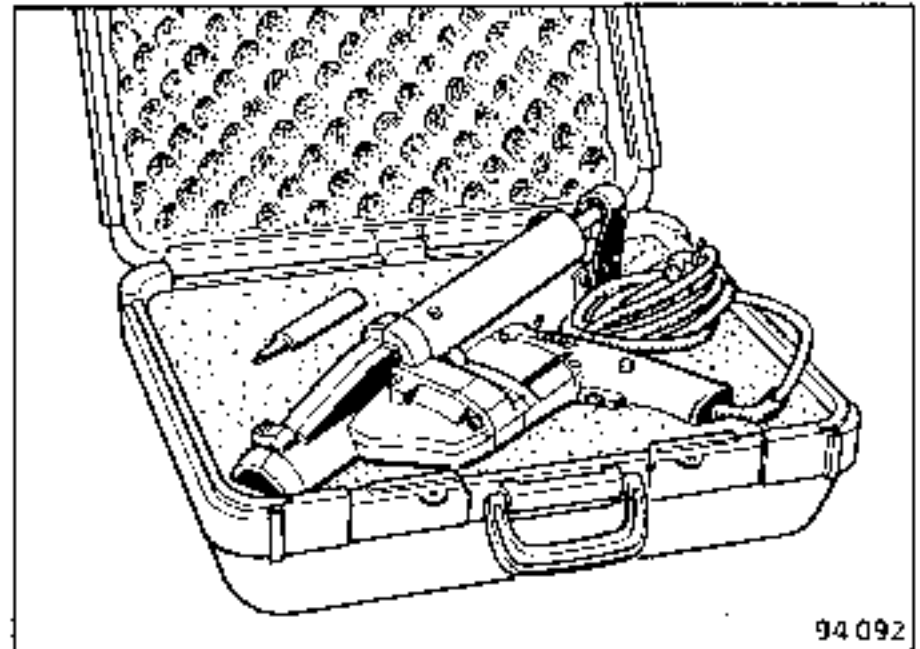
TWO-POT PRODUCT

Kit consists of



Part no.s: Large kit - 450 ml: 7701422389
Small kit - 220 ml: 7701422390

Equipment



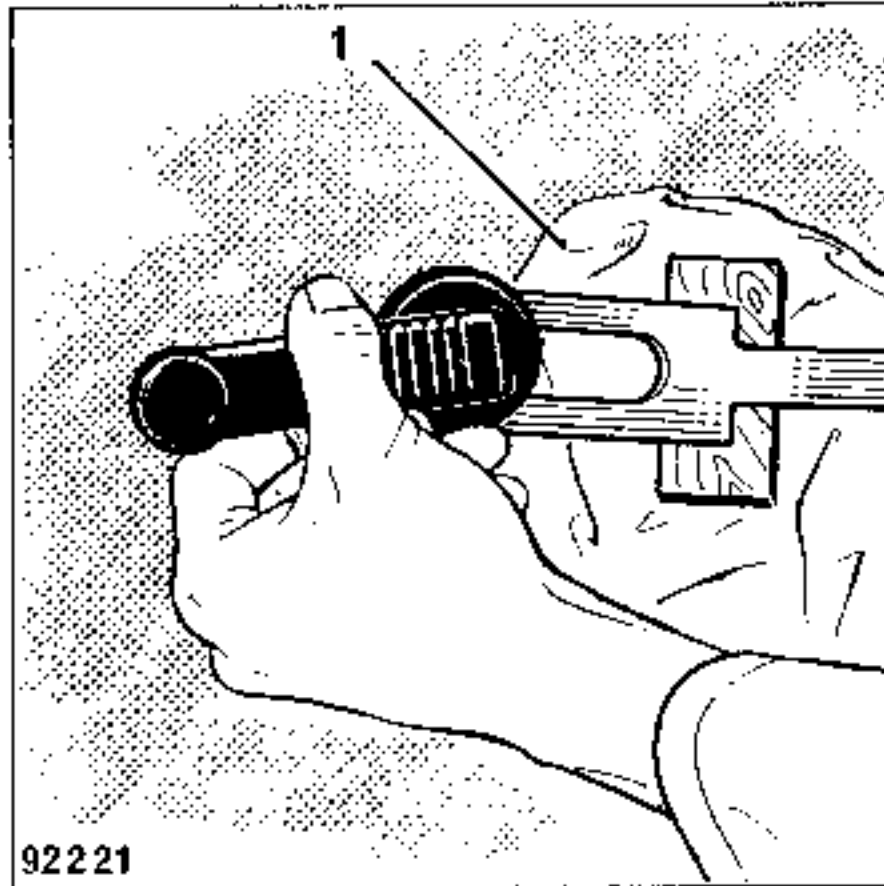
Composition of kit

- 1 cartridge of adhesive mastic
- 1 cartridge of accelerator mastic
- 1 dynamic mixer
- 1 bottle of glass primer
- 1 bottle of metal primer (anti-corrosion)
- 1 bottle of degreasing agent
- 2 primer application caps
- 1 special degreasing cloth
- 1 pre-cut out nozzle
- 1 nozzle without cut-out
- 1 roll of cutting wire (5 metres)
- 1 pair of gloves or 1 tube of barrier cream
- 2 R25 wedges
- 1 220 volts electric spray gun
- 1 holding handle
- 1 carrying case (see N.T.No.210)

IMPORTANT: for all replacement operations for the windscreen or rear screen it is recommended to have a second cartridge of mastic available. As a large bead has to be extruded, an additional cartridge may have to be used.

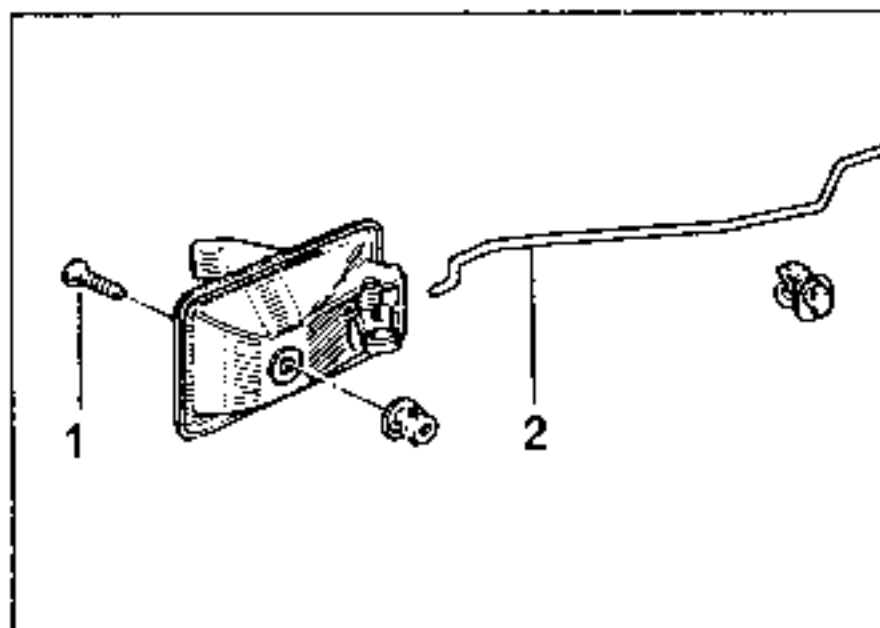
Cartridge of mastic alone.

Part Number 77 01 202 234

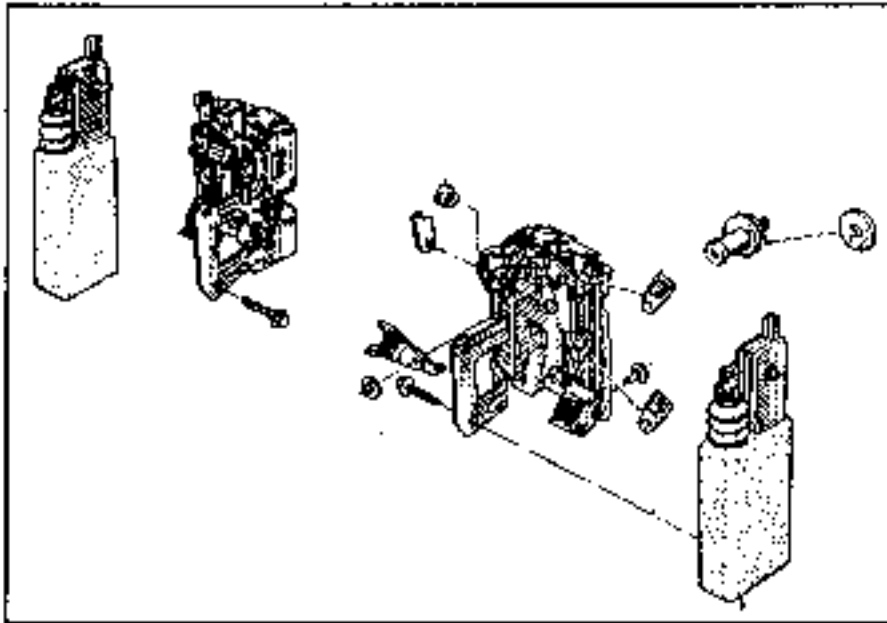


Use a locally made up fork or FACOM tool D115 as a lever to remove the handle, taking care to protect the trim with a cloth (1) and fit a block between the cloth and the tool.

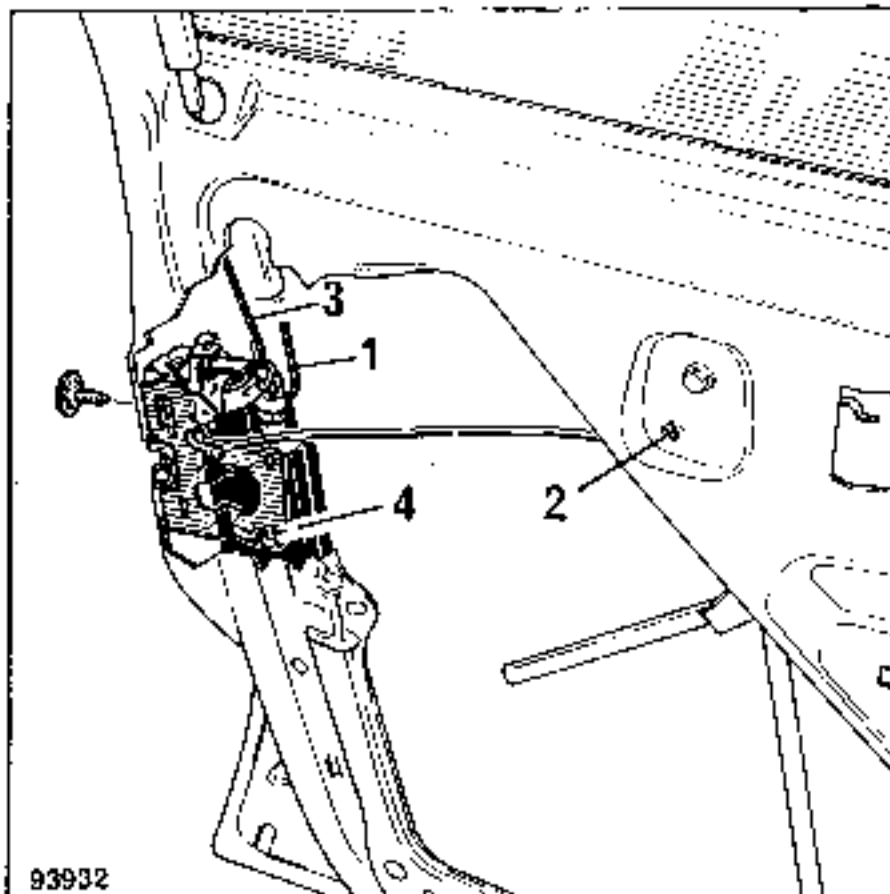
FRONT AND REAR DOOR INNER OPENING CONTROL.



Remove screw (1) and detach the inner opening control from rod (2).



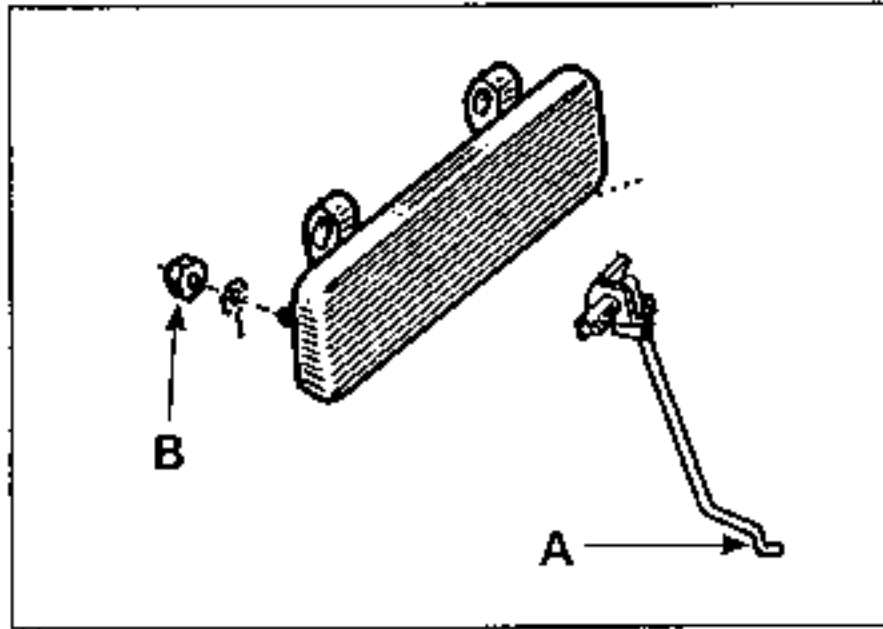
REMOVAL



After removing the trim, unclip:

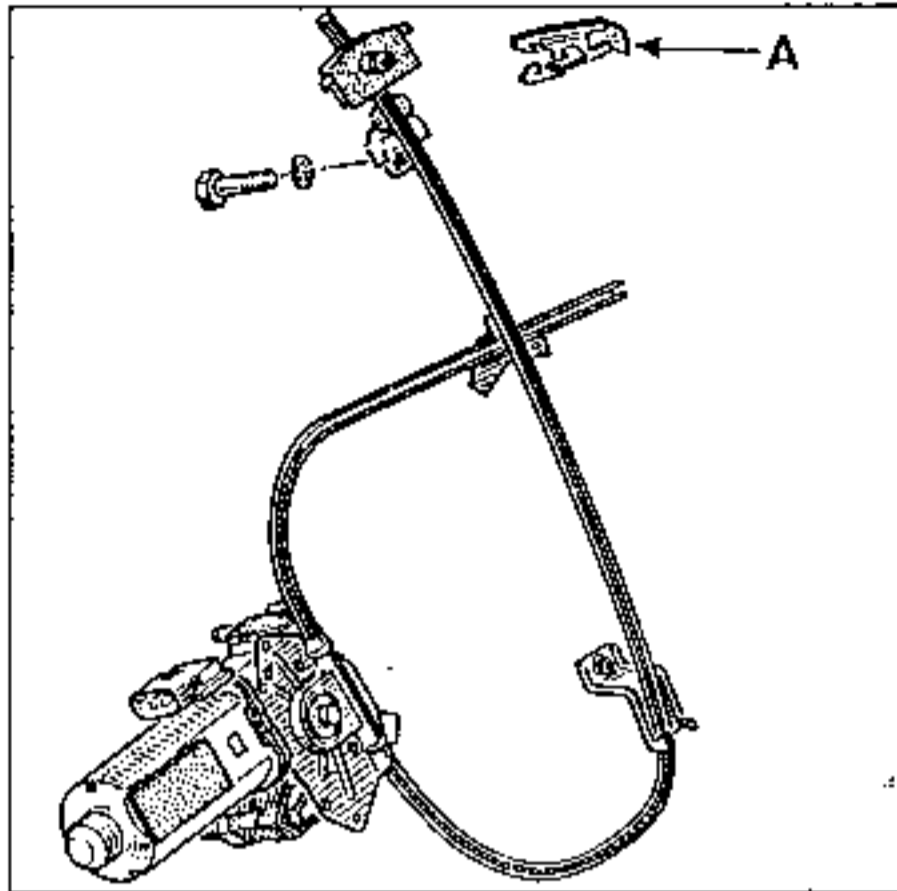
- external opening control rod (1);
- internal opening control rod (2);
- locking rod (3);
- disconnect the harness if necessary;
- unscrew the mountings from the lock (3 screws);
- take the lock out through the opening.

To remove the electric door locking motor (with lock removed), take out screw (4) so as to separate the motor and the lock.



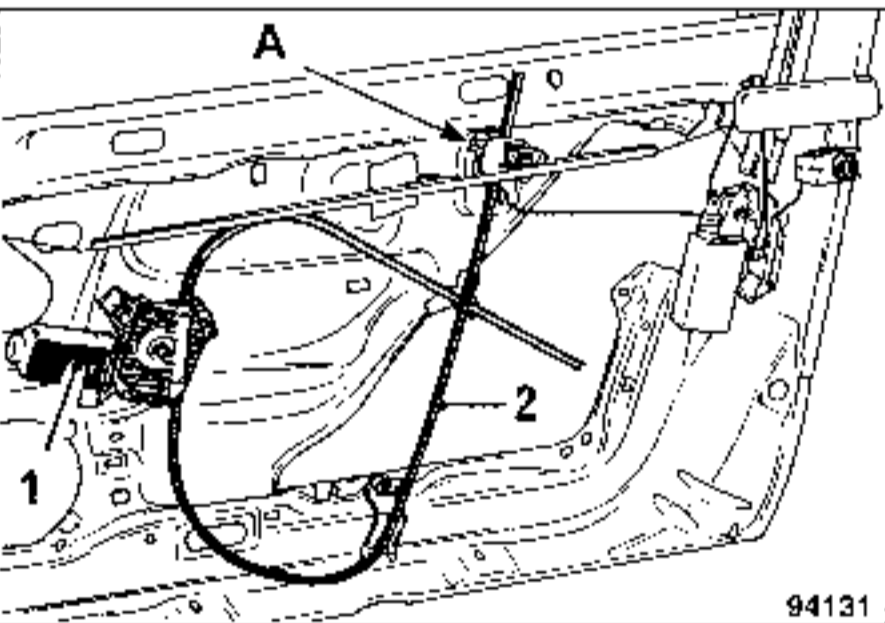
REMOVAL

- Unfasten opening control rod (A)
- Unscrew the two mounting nuts (B).
- Free the external handle.



REMOVAL

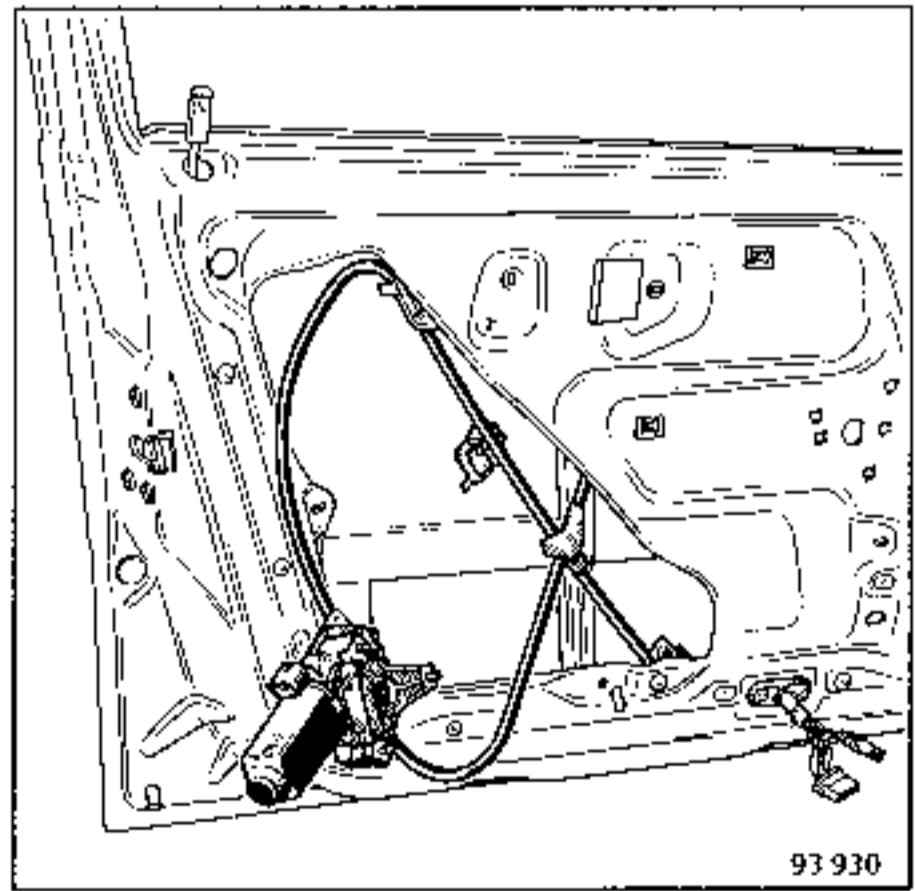
First remove the trim.



To make it easier to remove the window winder, it is preferable to remove the window (Clips A).

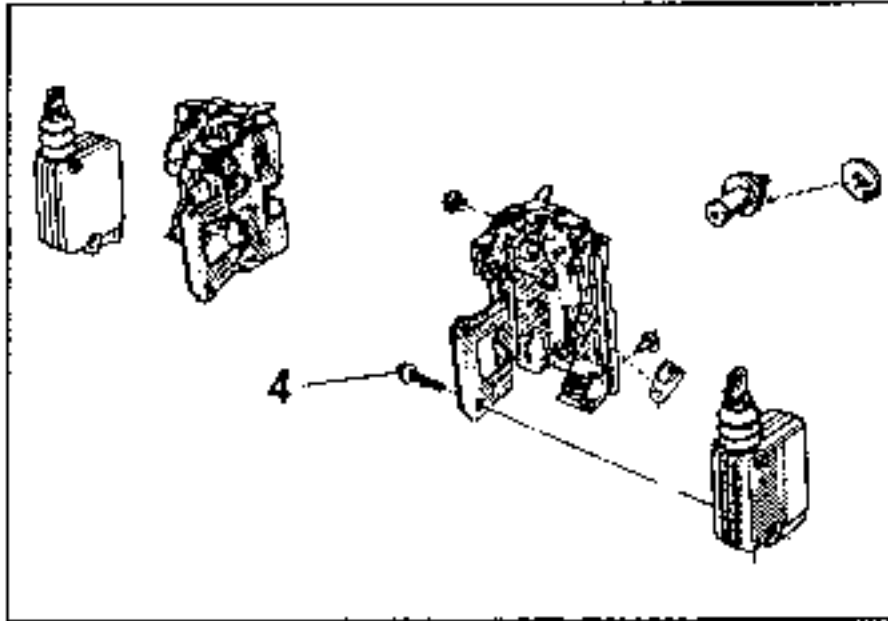
Disconnect motor (1).

Remove the mountings from mechanism (2).

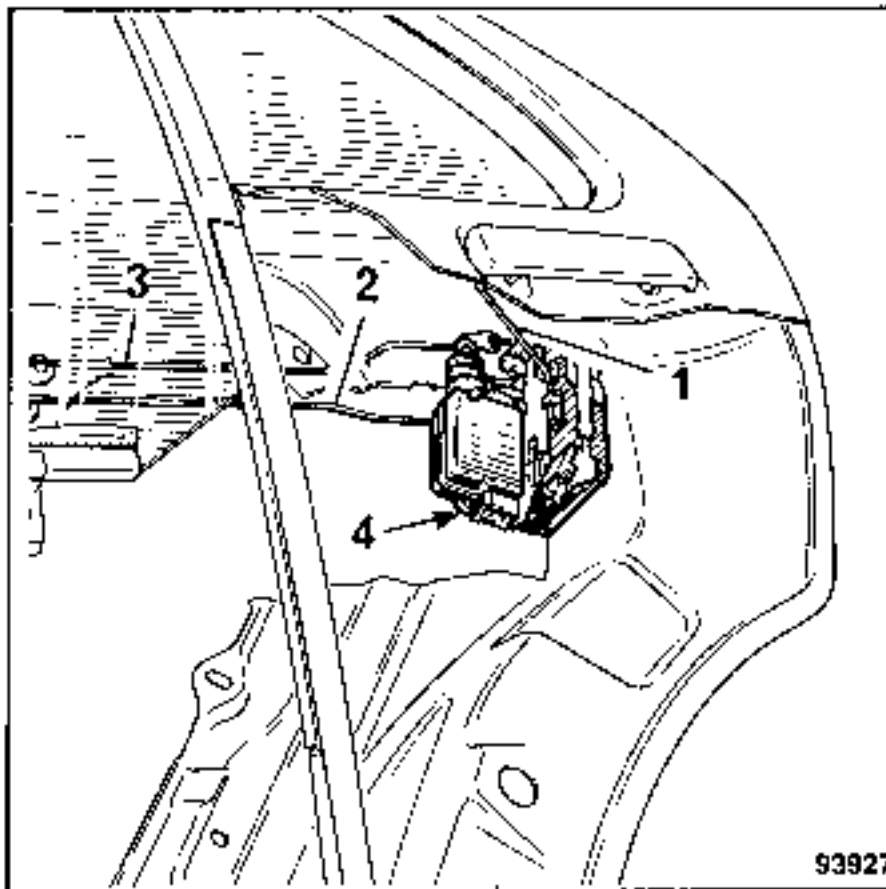


Tilt the assembly and take it out through the gap in the door as shown above.

COMMENT: The manual window winder is removed in the same way.



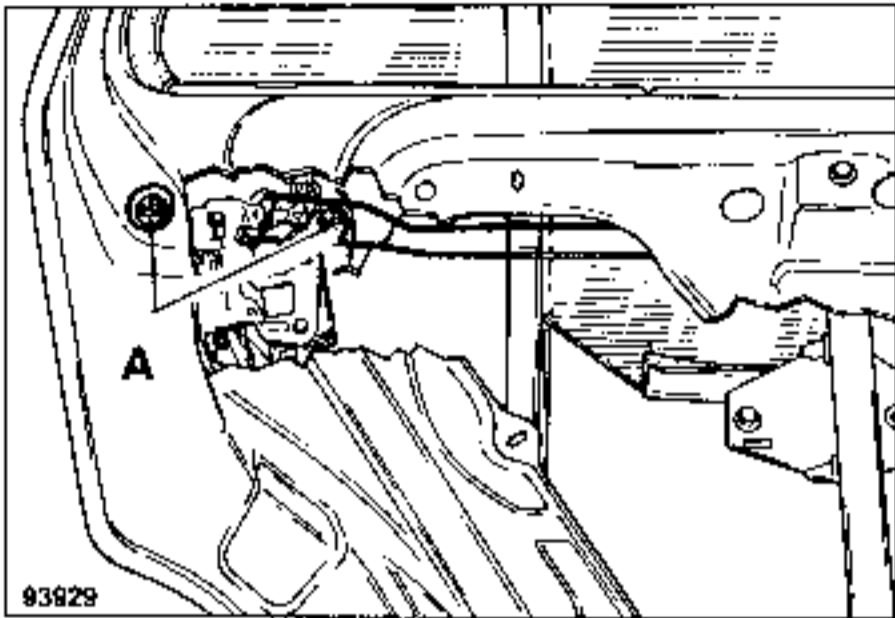
REMOVAL



After removing the trim, unclip:

- external opening control rod (1);
- internal opening control rod (2);
- locking rod (3);
- disconnect the harness if necessary;
- unscrew the mountings from the lock (3 screws);
- take out the lock through the opening.

To remove the electric door locking motor (with lock removed), take out screw (4) so as to separate the motor from the lock.



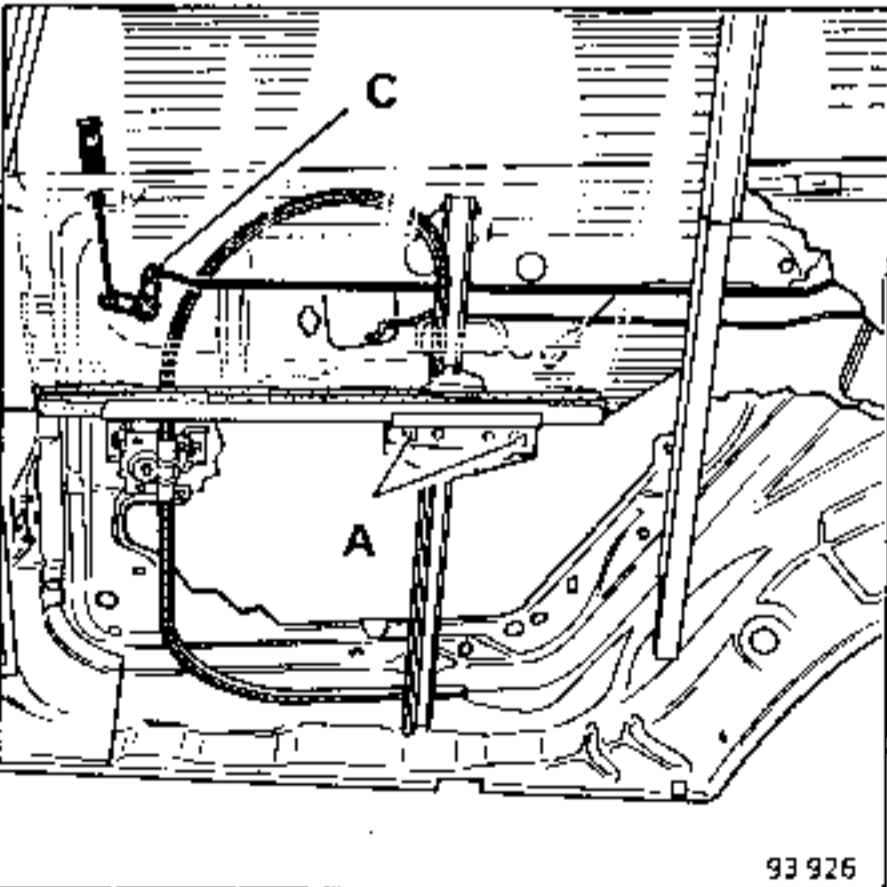
REMOVAL

After detaching the opening control rod, unscrew the 2 mountings A.

Remove the handle

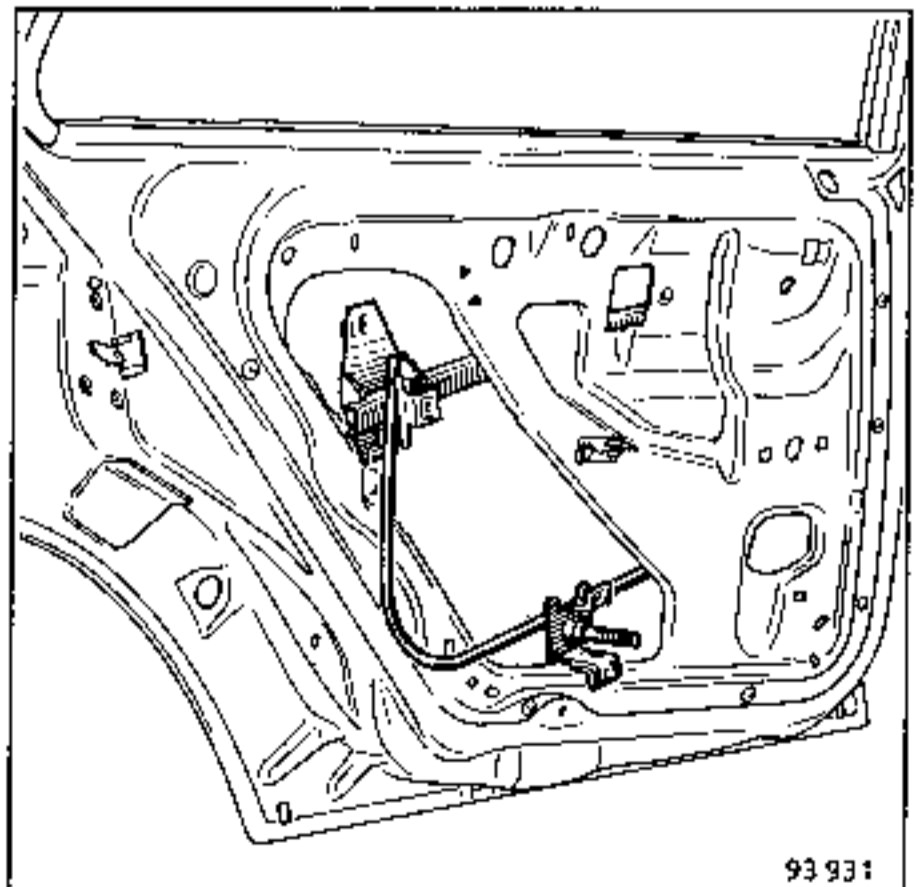
REAR DOOR WINDOW WINDER

REMOVAL



After removing the trim, remove the mounting screws from window (A) and unclip rod (C).

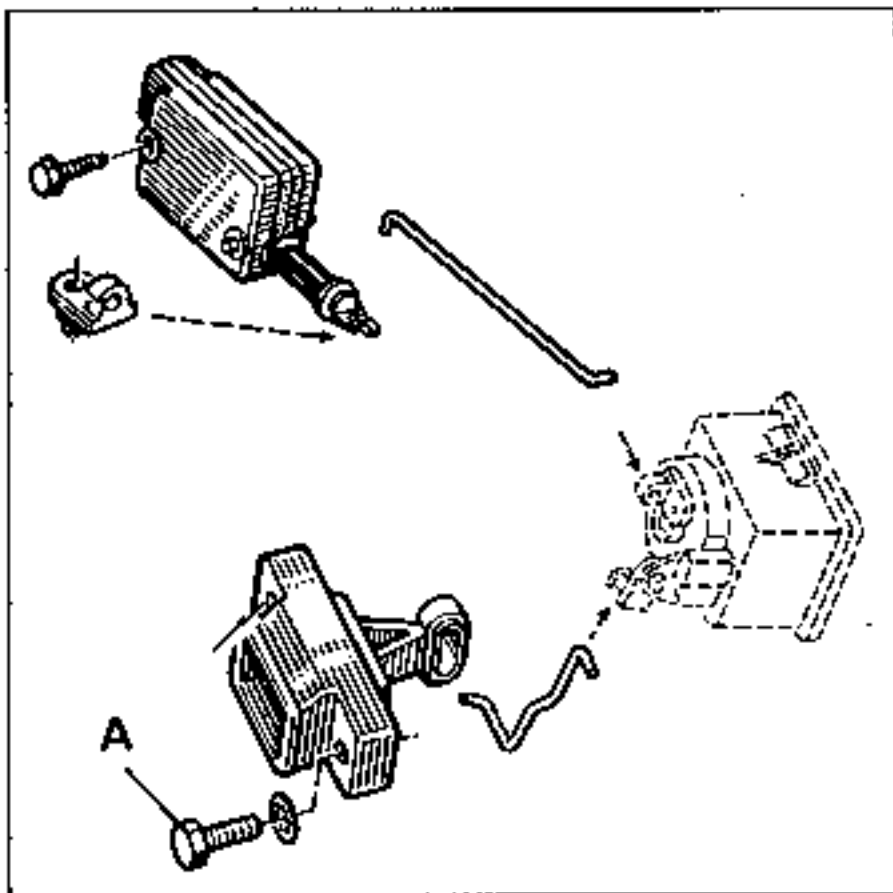
Raise the window and hold it in the raised position using adhesive tape then remove the mechanism mounting screws.



lift the assembly as shown above and take the mechanism out carefully.

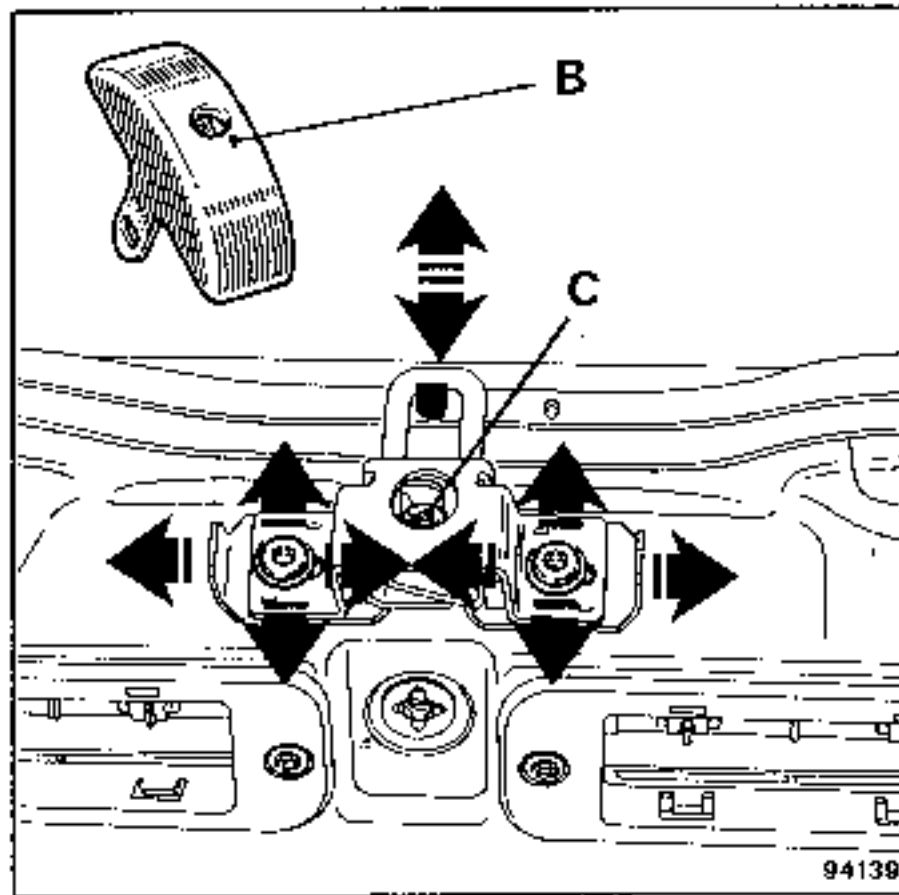
Tailgate lock

REMOVAL



Remove the 2 screws (A) and pull the lock, turning it to free the control rod.

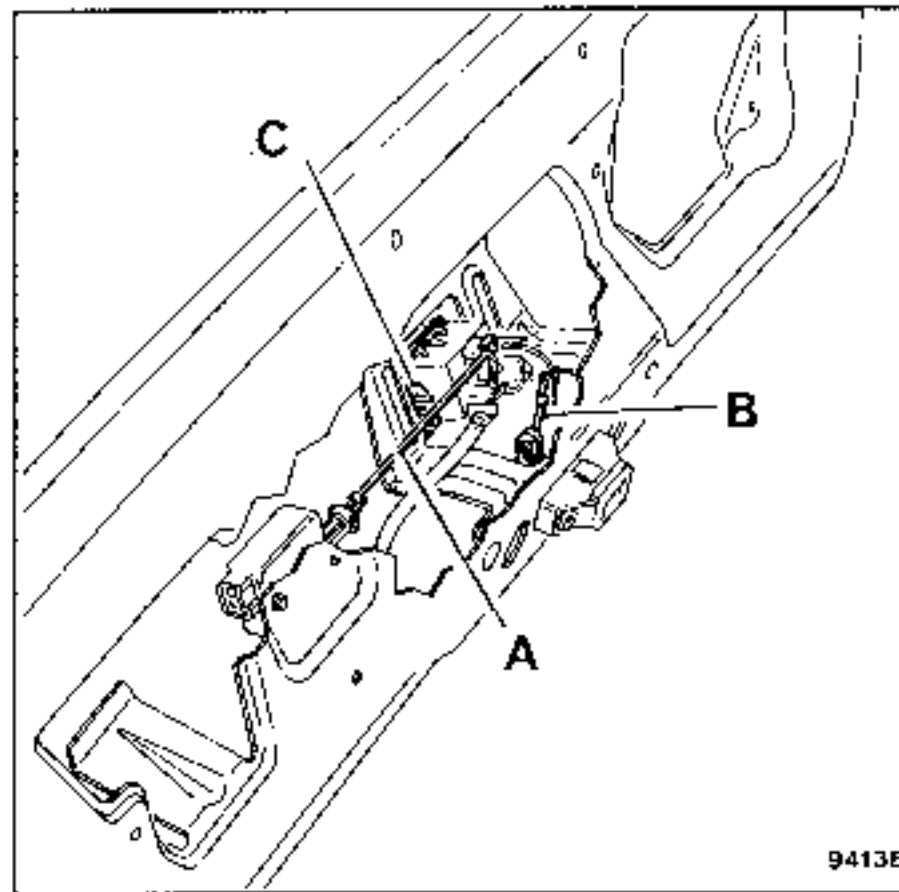
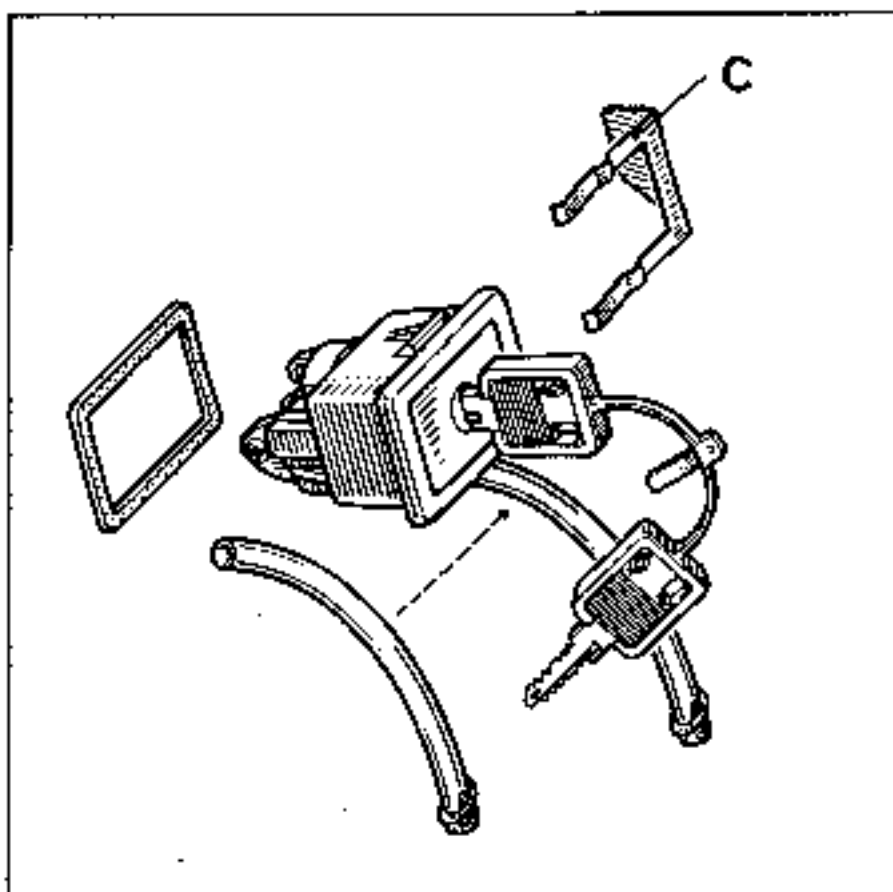
ADJUSTING



Adjust the striker plate after removing cover (B).
Closure screw (C).

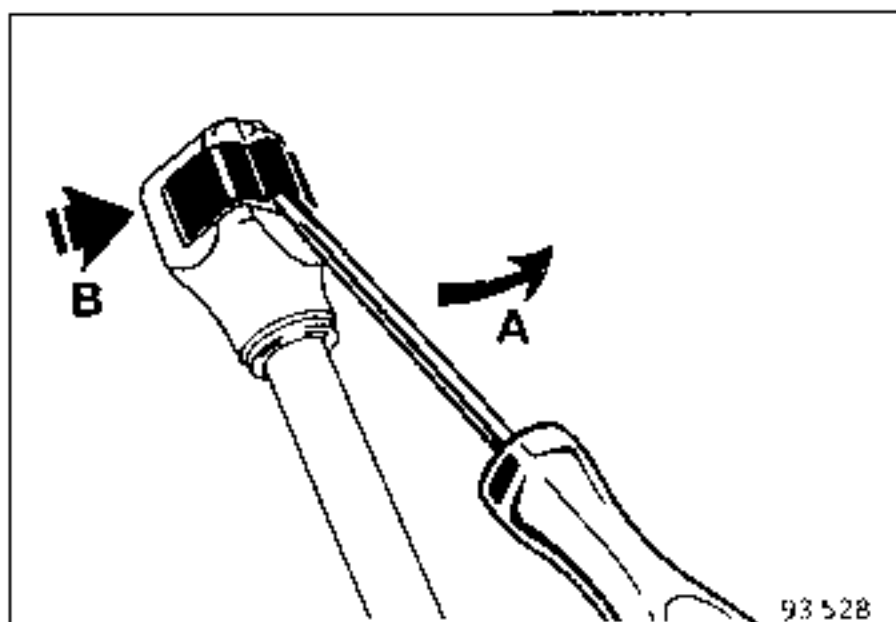
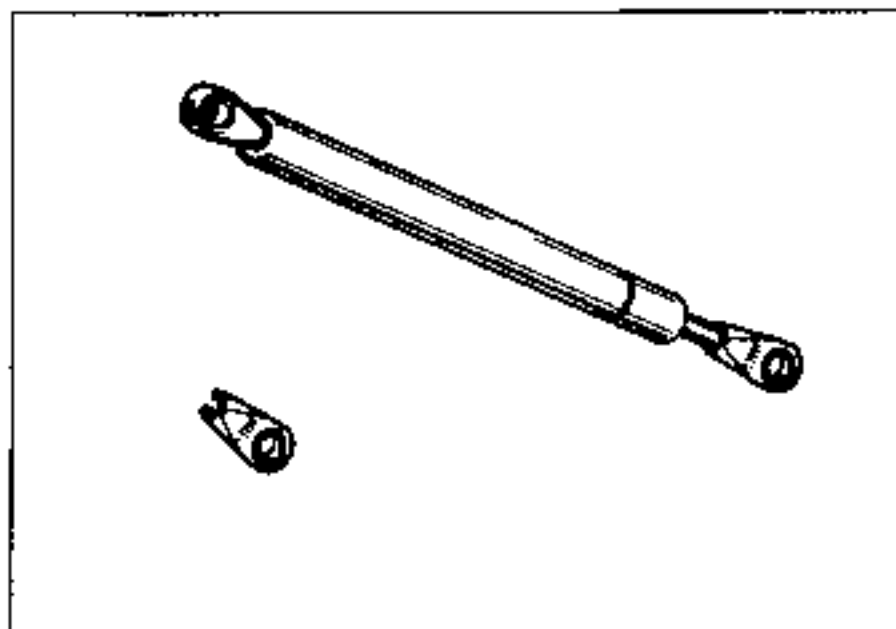
Tailgate lock barrel

REMOVAL



Unclip:

- door lock control rod (A);
- opening control rod (B);
- unclip the clip on lock barrel (C) and take it out from the exterior.

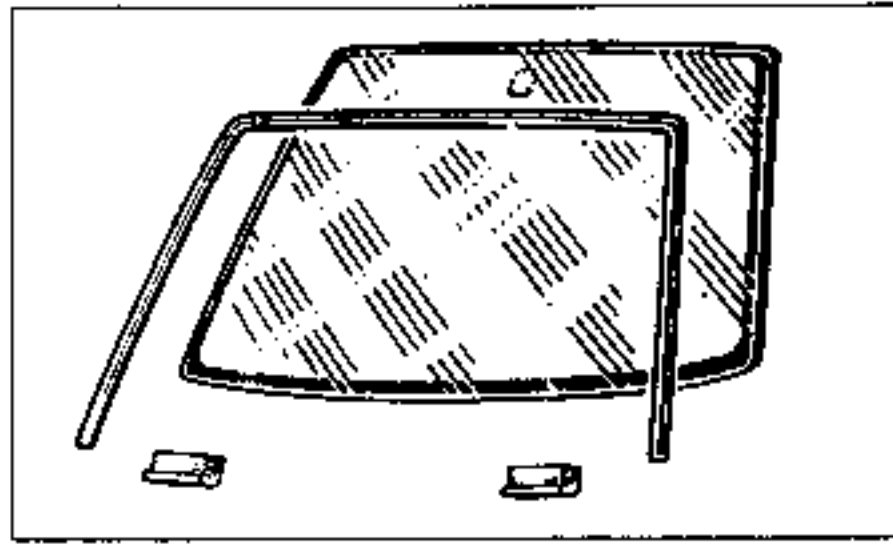


To remove the strut, release metal clip (A), but do not remove it, using a screwdriver and take the ball joint out of its housing.

If the clip breaks, the strut end piece must be replaced, Part No. 77 01 034 613.

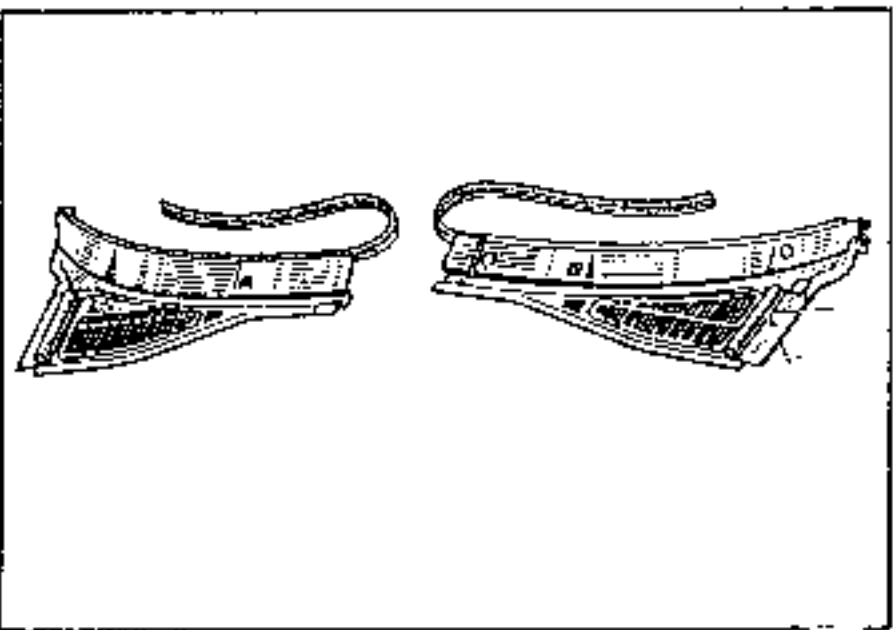
IMPORTANT

It is essential to check the capacity of struts which are to support excess loads when various fittings are mounted such as a boot lid spoiler etc.

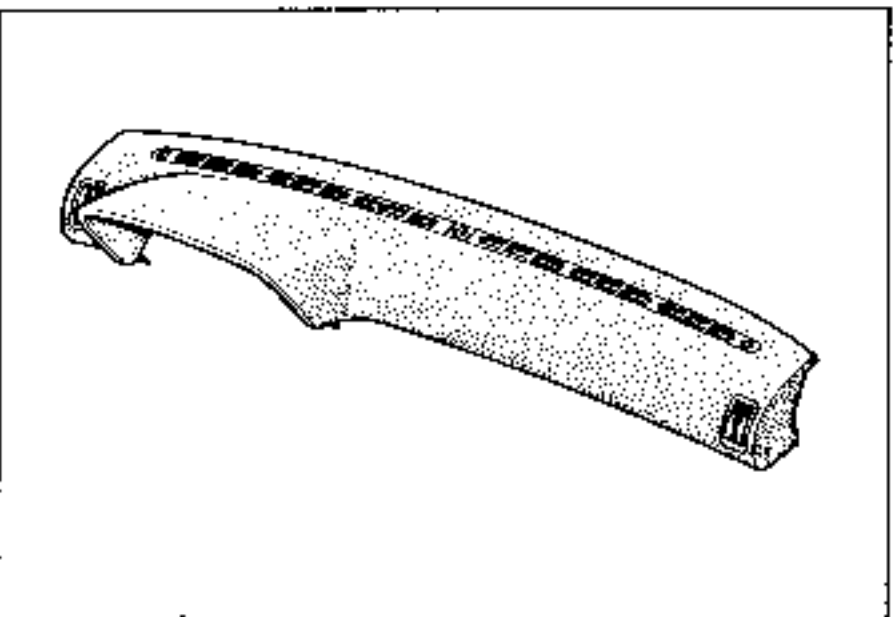


REMOVAL

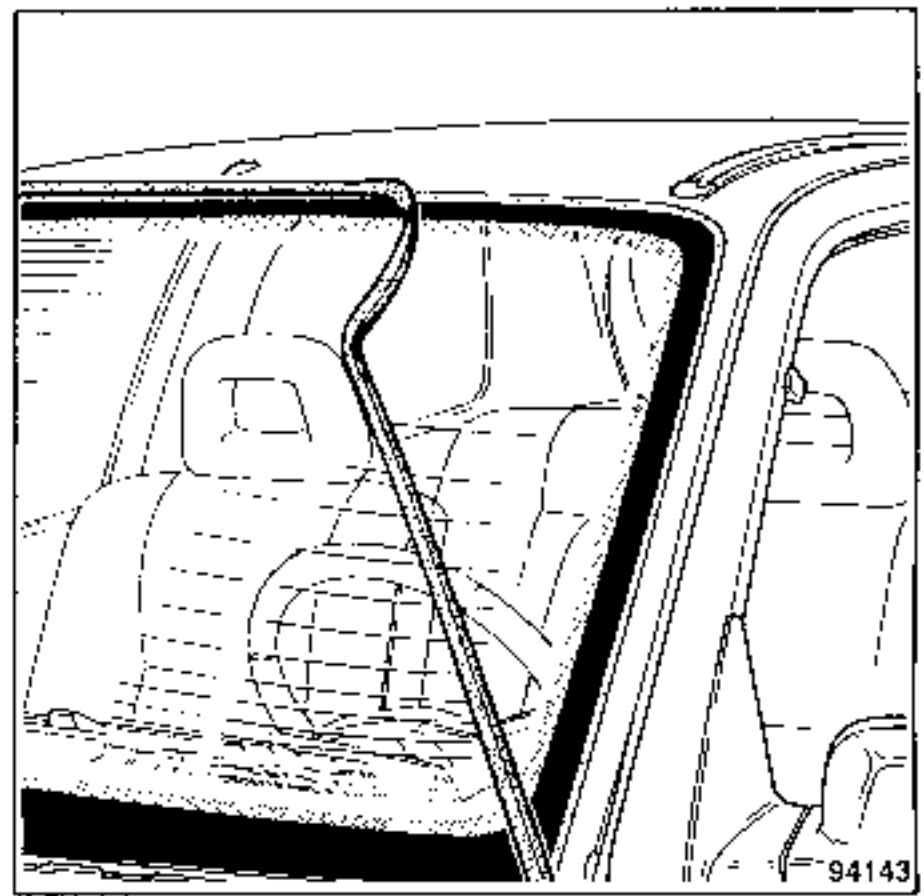
See GENERAL section - Tooling and products.



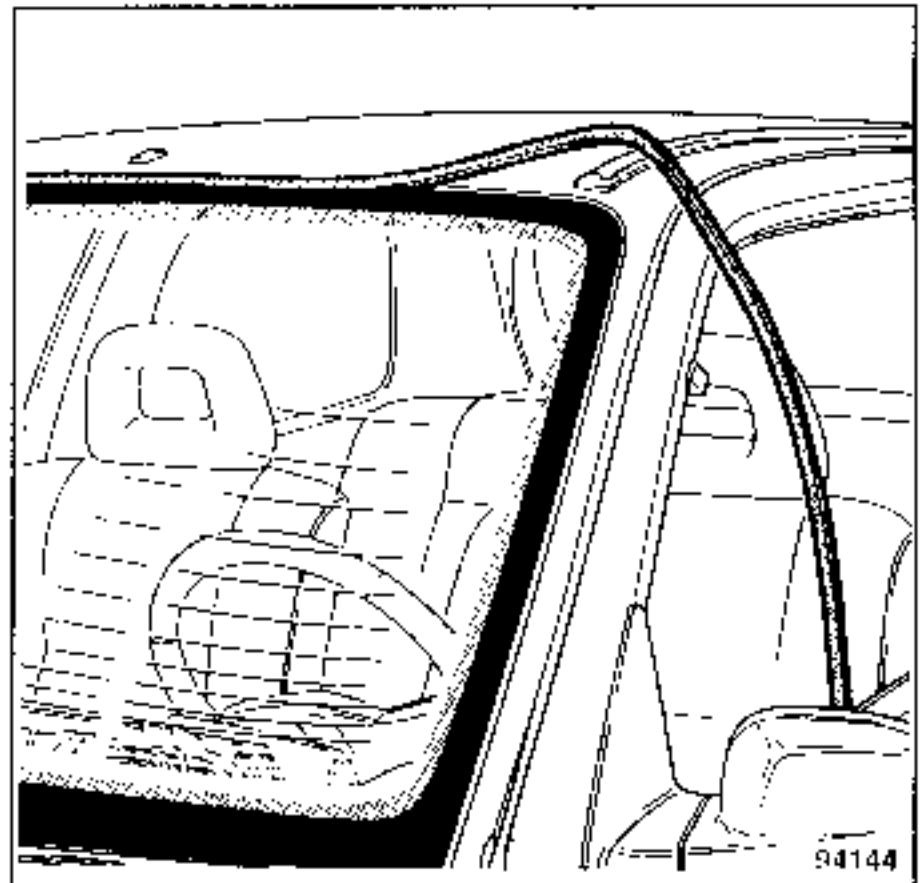
After removing the windscreen wipers, remove the grille from the windscreen aperture.



Remove the upper part of the dashboard (5 screws).

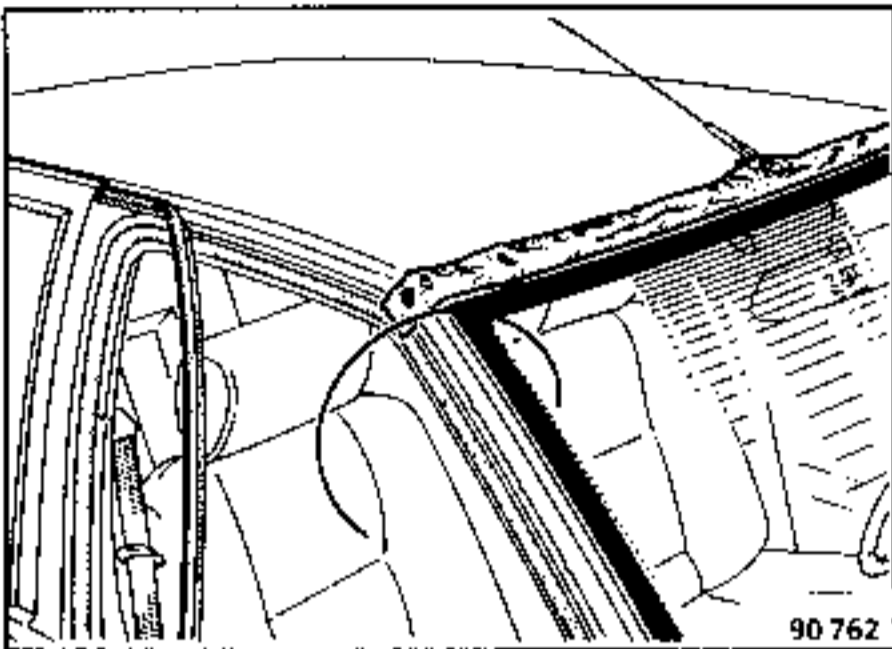


Remove
- the outer moulding;



- the moulding mounting;

- the 2 inner blocks held on the wind-screen aperture by adhesive tape.



90 762

Protect the paintwork around the wind-screen using adhesive tape, (masking tape).

Pass a piece of steel wire approximately 30 cm long through the mastic bead.

IMPORTANT: Before fitting the pricking tool and pulling handle, consult section 50 "GENERAL - Tooling".

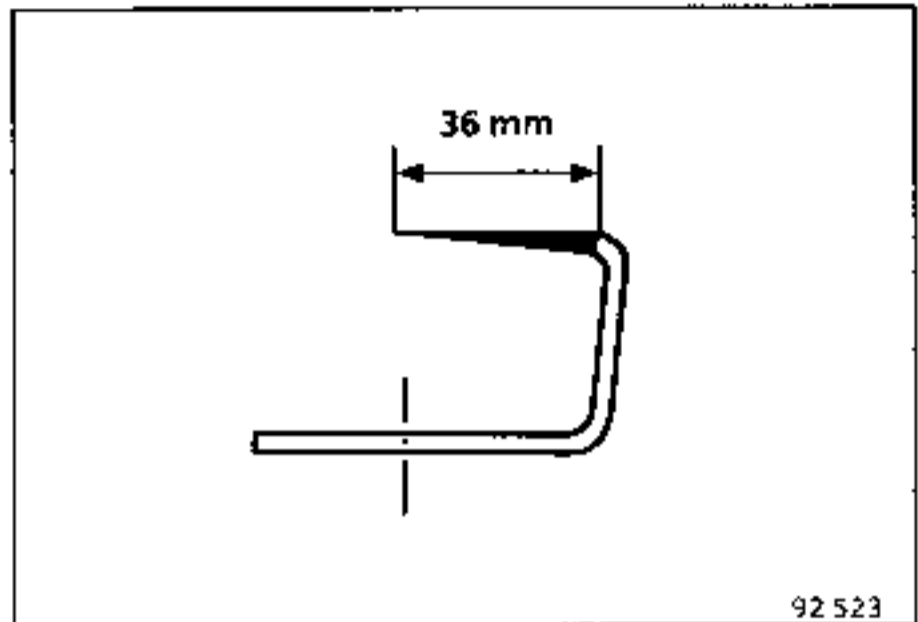
Cut the mastic bead.

For the lower corners, pass the wire under the glass and pull towards the opposite corner so as not to damage the upper corner of the wing.

When cutting the bead, the operator pulling on the pulling handle must keep his hand as low as possible in order to avoid scraping the edge of the glass.

NOTE: the windscreen may be removed using the Fein electric cutter equipped with blade 079 (see section 50 "GENERAL - Tooling").

EXCEPT THE LOWER SECTION.



92 523

Sharpen the blade with the machine on setting 2.

Start cutting out by inserting the blade in the mastic bead at one of the side edges (machine running on setting 2).

Cut the bead in the clockwise direction, varying the machine power to suit the force exerted for cutting.

NOTE: it is very important that the blade is sharp. It must be sharpened each time it is used.

CLEANING THE WINDSCREEN APERTURE

Using a 20 to 25 mm wide spatula, sharpened to form a cutting blade, cut and level the mastic bead leaving between 0.5 and 1 mm of mastic on the flange.

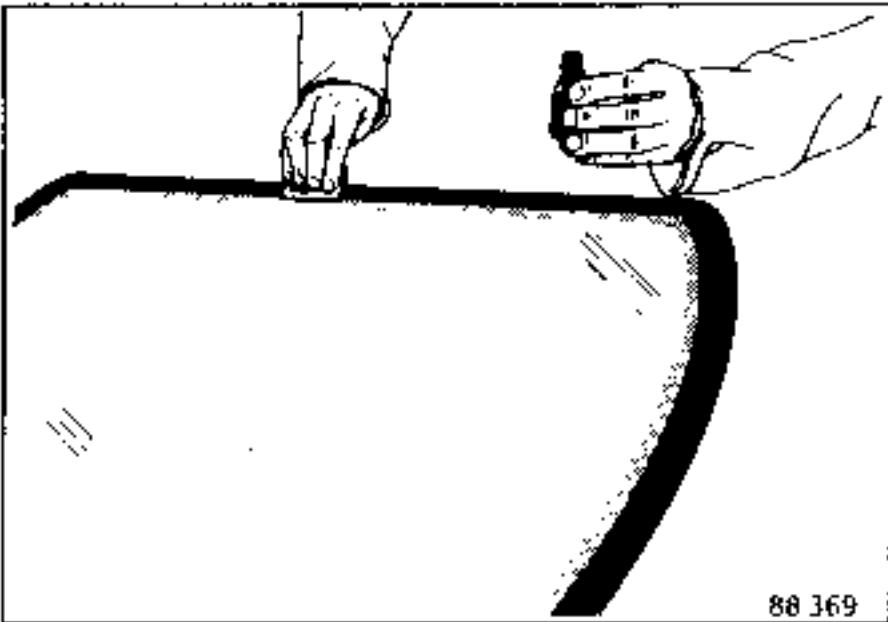
NOTE: it is essential to leave a film of mastic on the flange since this serves as a key for the new bead.

Remove any loose mastic and dust from the flange using a compressed air-gun.

NOTE: only use dry air completely free of oil

As a general rule, do not apply any cleaning or degreasing products to the film of mastic on the seal.

PREPARING THE NEW WINDSCREEN



88 369

Carefully clean the enamelled surface all around the windscreen.

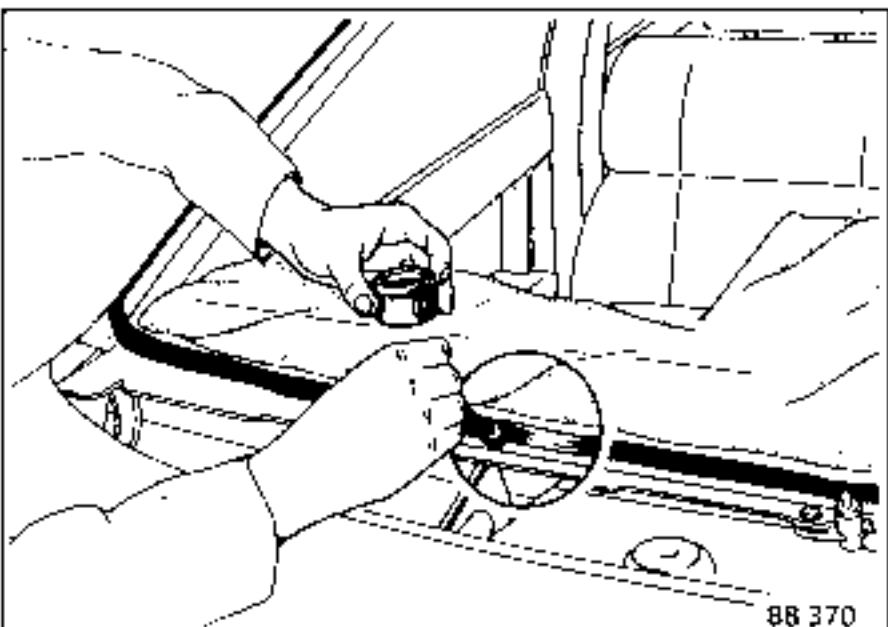
1. If possible using demineralised water then wipe off with a clean dry cloth.
2. With degreasing fluid using the special cloth supplied with the kit.

Apply glass primer over an area approximately 20 mm wide around the edge of the windscreen.

Fit on the moulding mounting starting at the upper corners of the windscreen.

Fit the moulding in place on the mounting, clipping it in place.

PREPARING THE WINDSCREEN APERTURE



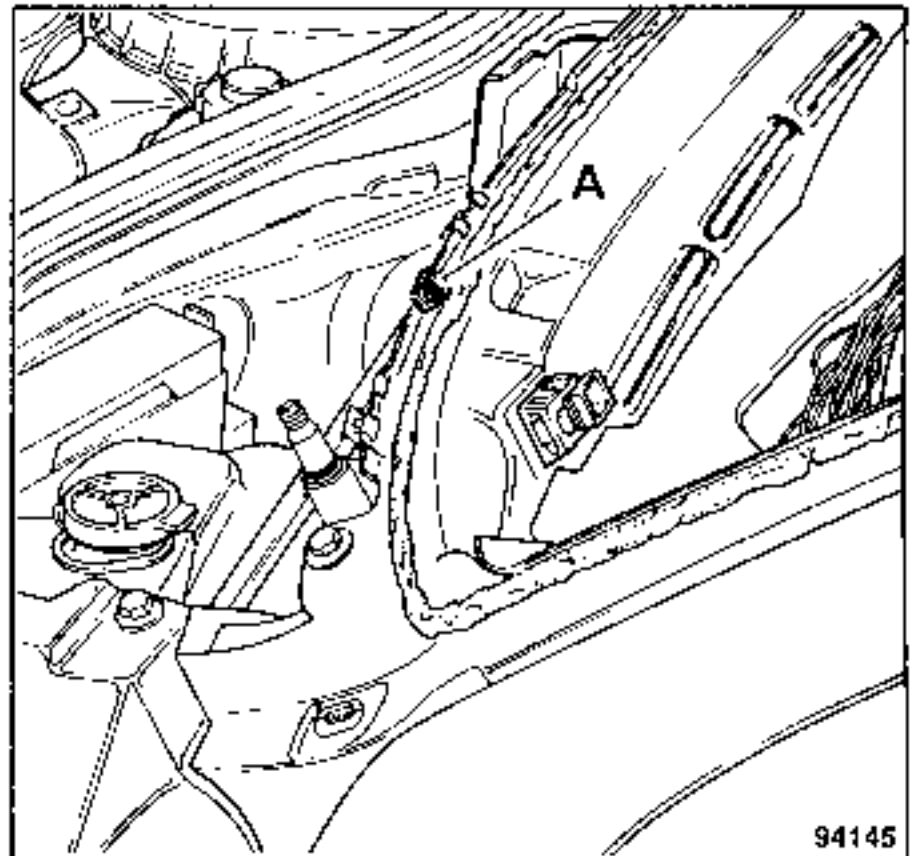
88 370

Apply metal primer to the places where the flange has been damaged back to the metal on removal or cleaning.

DO NOT PUT ANY PRIMER ON THE REMAINING FILM OF MASTIC. If necessary cut the applicator to shape with a pair of scissors.

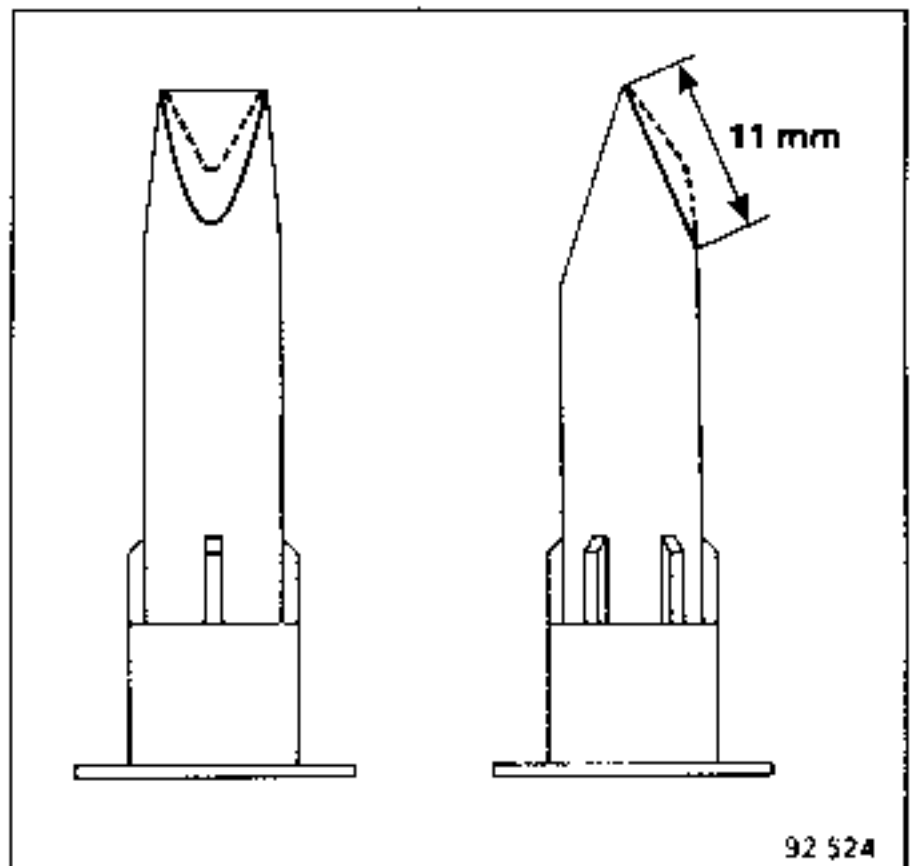
REFITTING

See section 50 "GENERAL - Products".



94145

Fit the 2 new wedges to the windscreen aperture (A).



92 524

Take the nozzle with a triangular cross-section which is supplied with the bonding kit and cut it as shown in the diagram above so that an 11 mm deep dead of mastic is extruded.

Take the cartridge of mastic, pierce the membrane with a screwdriver and screw on the nozzle.

Then pierce the metal cap at the base of the cartridge.

Using a pneumatic sealer gun apply the bead of mastic, guiding the nozzle along the moulding mounting.

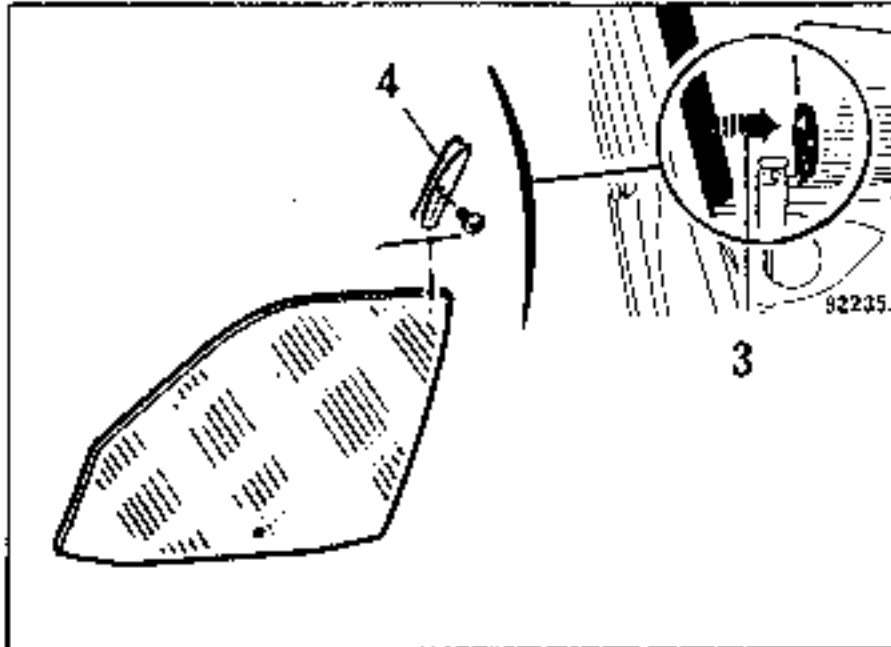
Using a spatula, level the join where the ends of the mastic bead meet.

Before fitting the windscreen, turn over the lower corners of the moulding, to make it easier to fit the glass in the aperture.

Using two suction pads, offer the windscreen up to the aperture, centring it in the process. To do this, move the moulding mounting so that it is butting against the edge of the roof. It is centred at the sides by comparing the upper corners of the glass on each side with the roof corners. The lower edge of the windscreen should rest on the wedges.

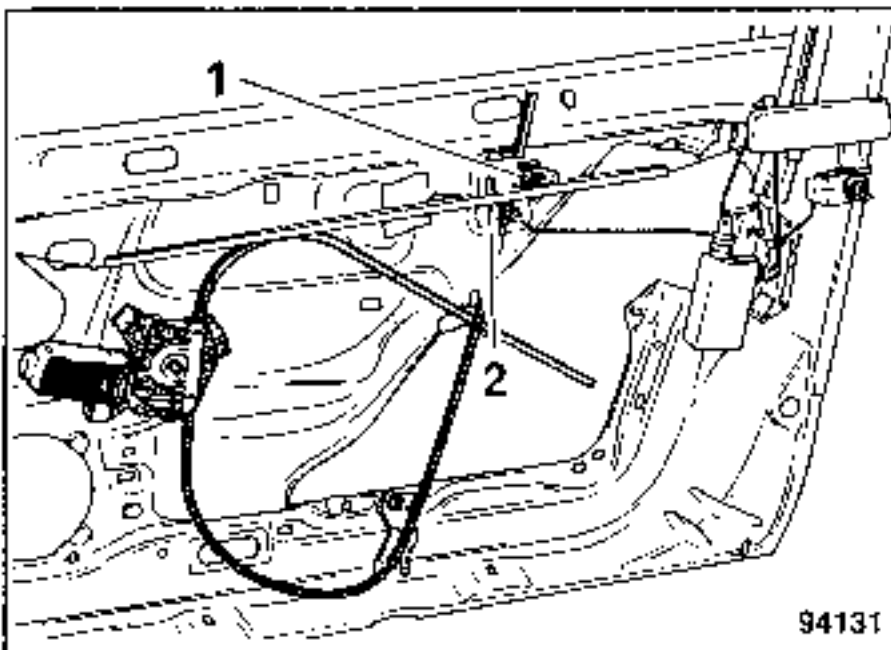
Fold down the lower corners of the moulding under the wings.

NOTE: the vehicle must remain stationary for at least 3 hours IF THE ONE POT PRODUCT IS USED or 1 hour IF THE TWO POT PRODUCT IS USED. You are strongly recommended to use this time to run water over the edge of the windscreen in order to ensure on the one hand that there are no leaks and on the other hand to accelerate polymerisation of the mastic owing to the humidity.



REMOVAL

After removing the trim, remove:
- the inner rubbing strip;



- the snap fastener (1), moving apart the catches using a 10 mm flat spanner.

Free the window from the spindle.

Lower the plate (2) into the bottom of the door.

Free clip (3) on the window from its slide-way.

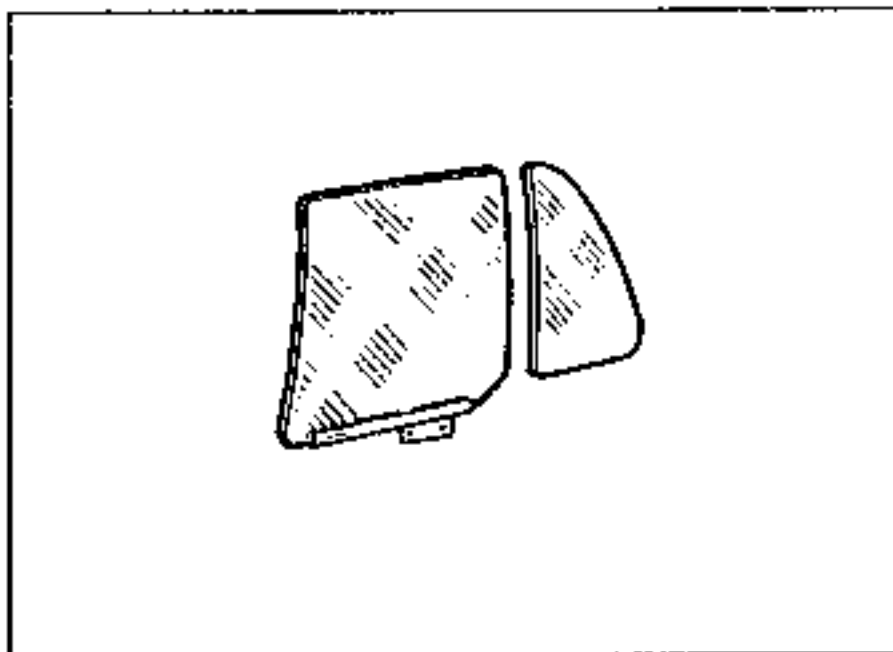
Tilt the window forwards.

Take the window out from the top.

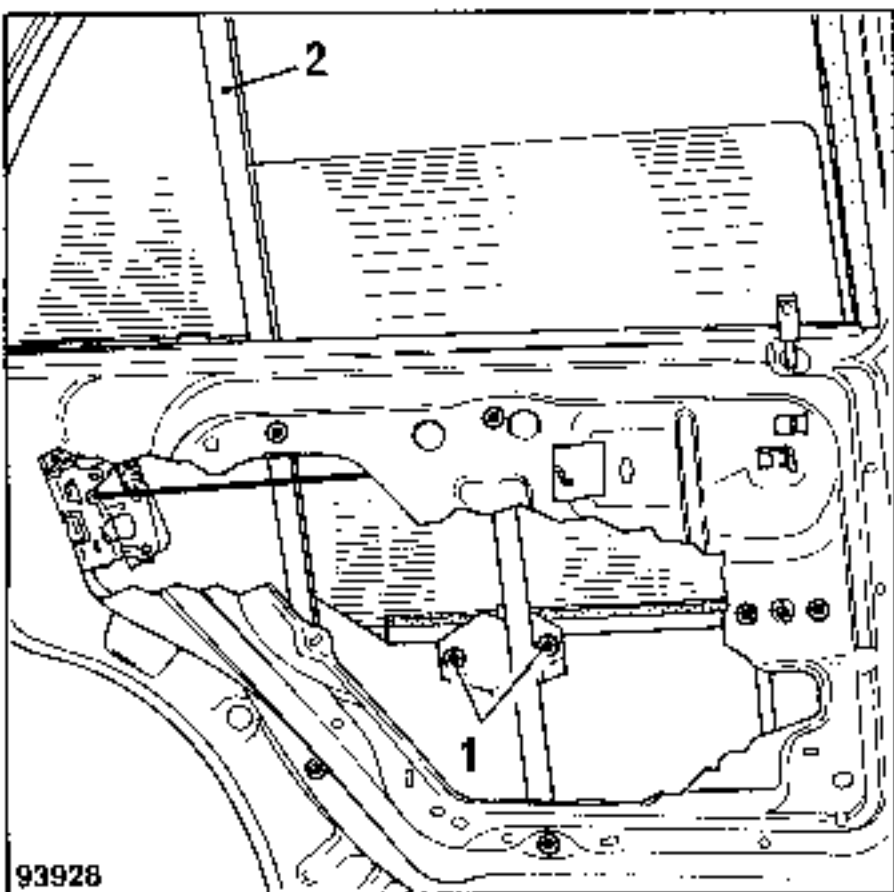
REFITTING

NOTE: No adjustment is required on refitting as clip (4) is secured by a rivet.

This part can only be replaced if the window is removed.



REMOVAL

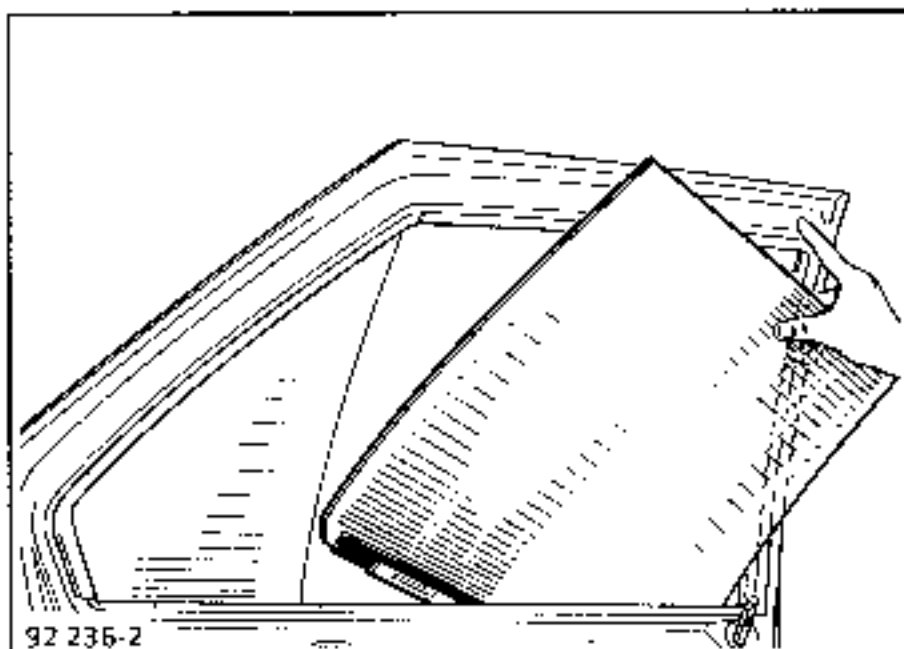


After removing the trim and inner and outer rubbing strips, position the window so that the window mountings are opposite the gaps.

Remove screws (1).

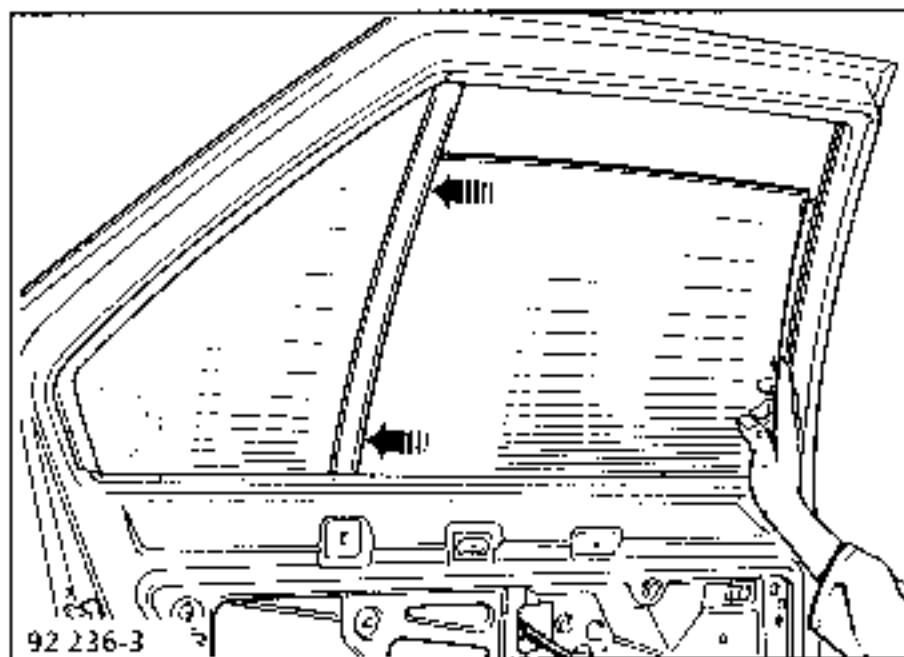
Lower the window .

Remove upright (2).



Take out the window.

REFITTING

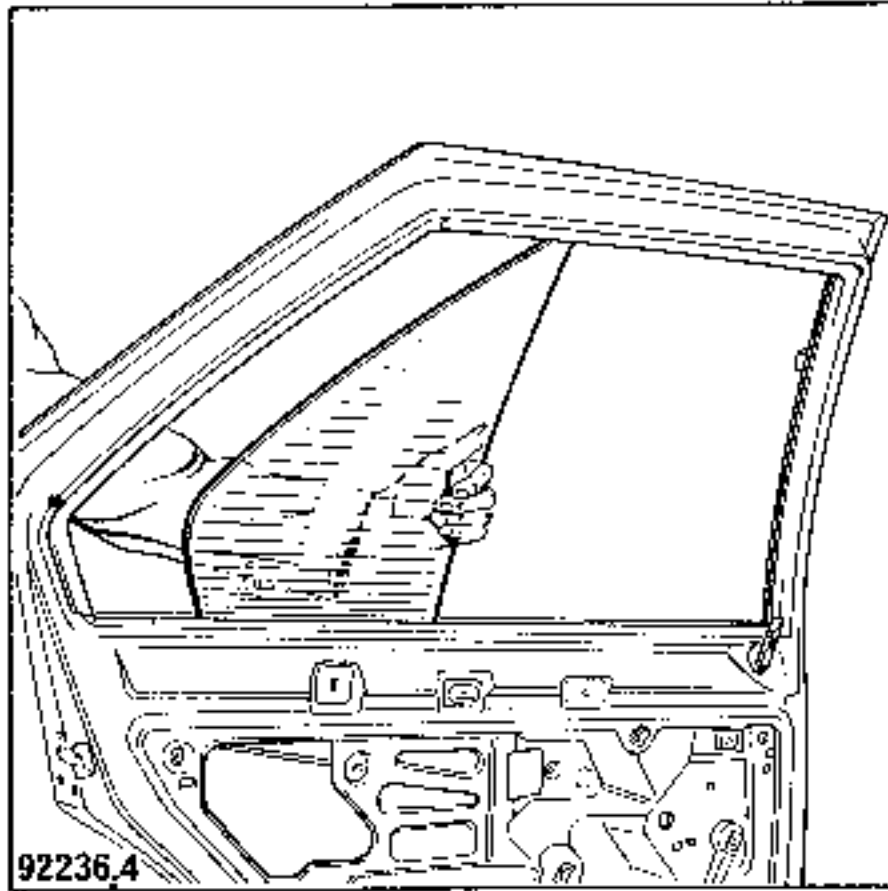


Adjusting

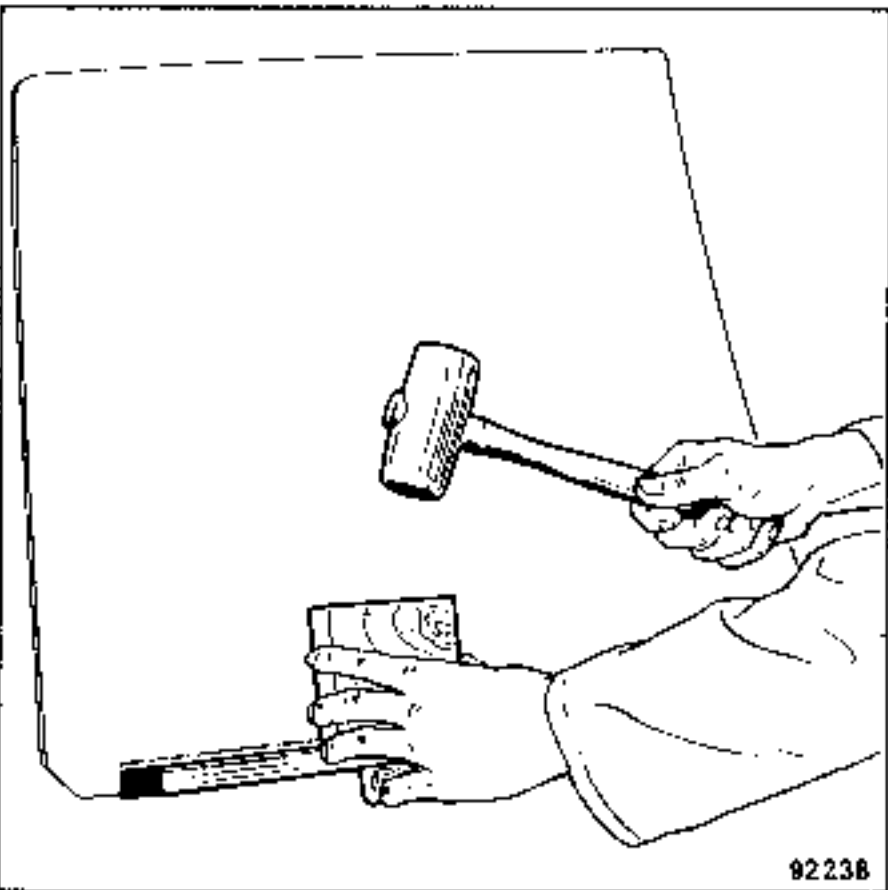
Use the gaps in the bottom of the window.

Place the window in upright (2) when tightening it.

After removing the trim, inner and outer rubbing strips and sliding window, remove the upright and release the small window from its location.

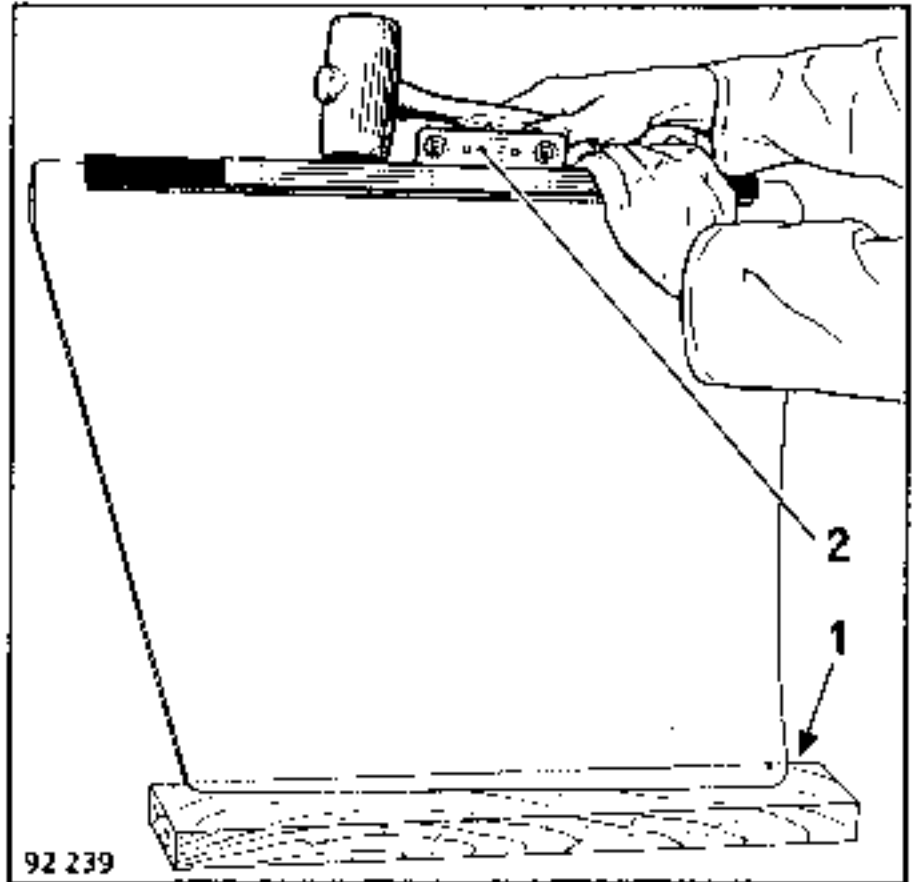


REMOVAL



Hold the window with the help of a colleague.

Knock out the bottom of the window using a wooden block and a mallet.

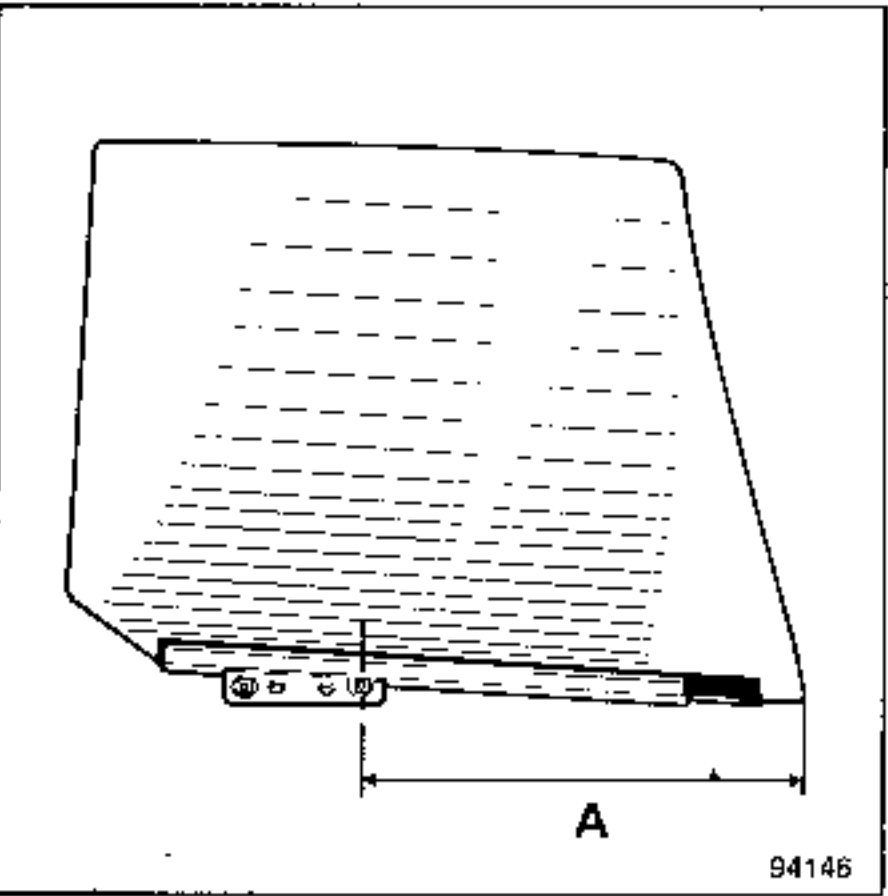


Place the window on a wooden block (1).

Tap the bottom of the window to fit it on.

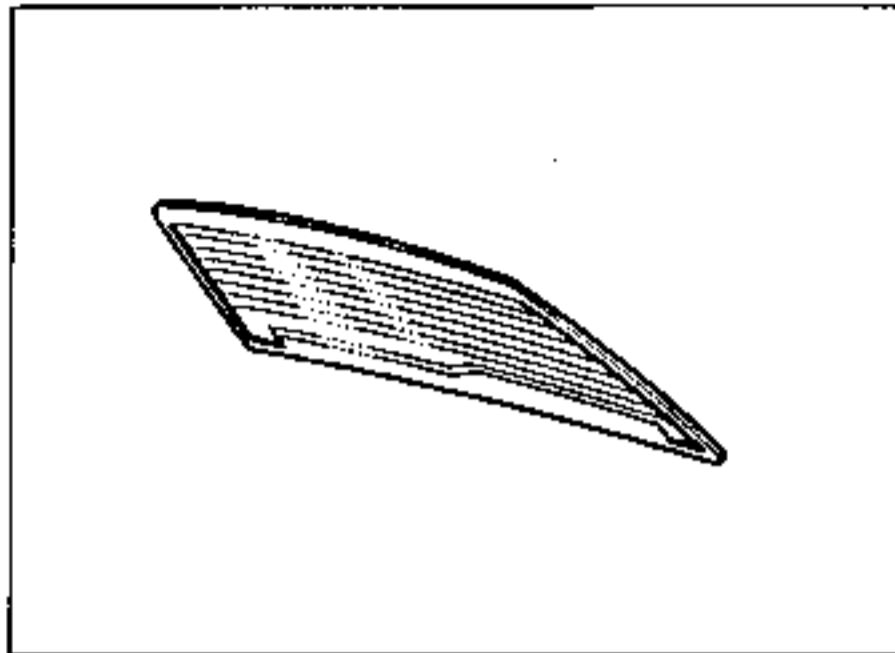
ATTENTION: Do not hit the centre part (2).

REFITTING



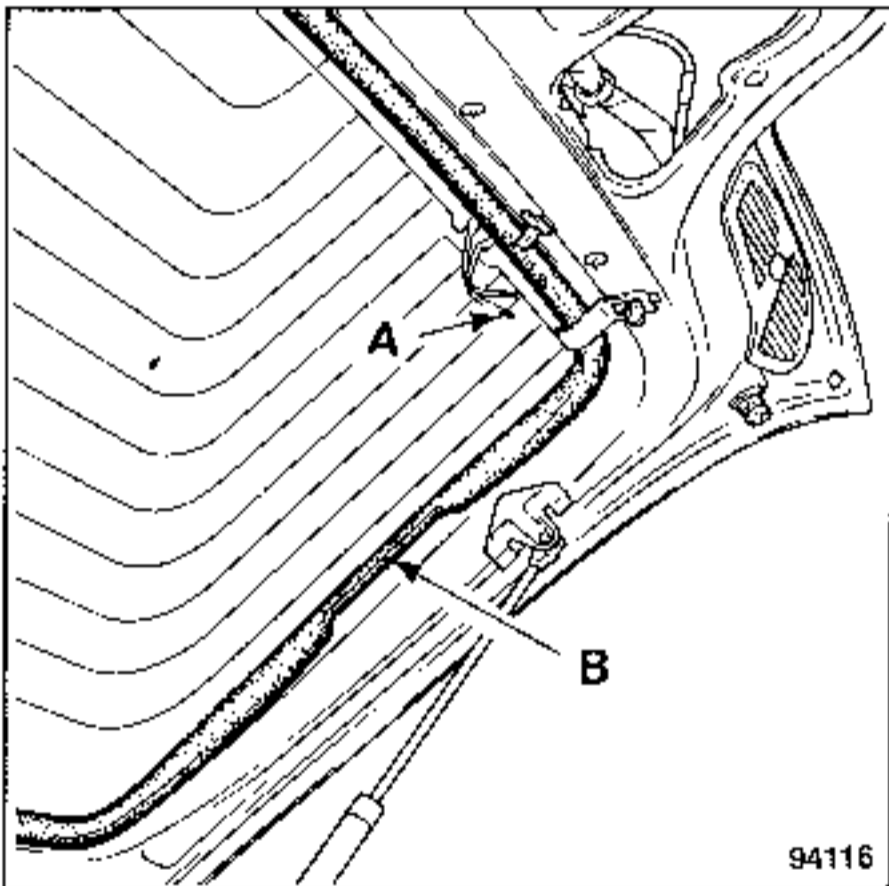
Coat the seal with a suitable lubricant.

Position the bottom of the window so that dimension (A) is 334 mm.



REMOVAL

First remove the tailgate trim.

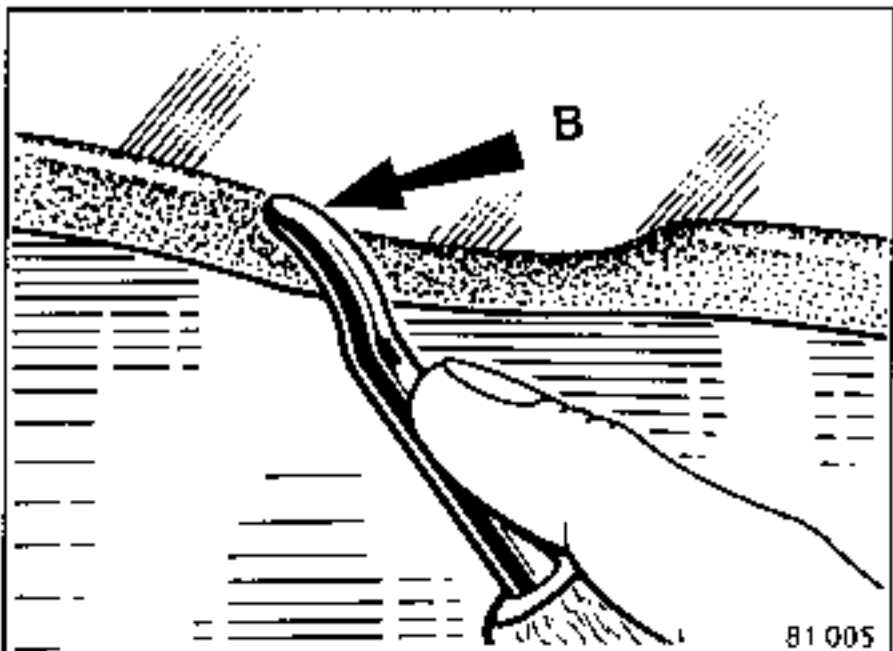


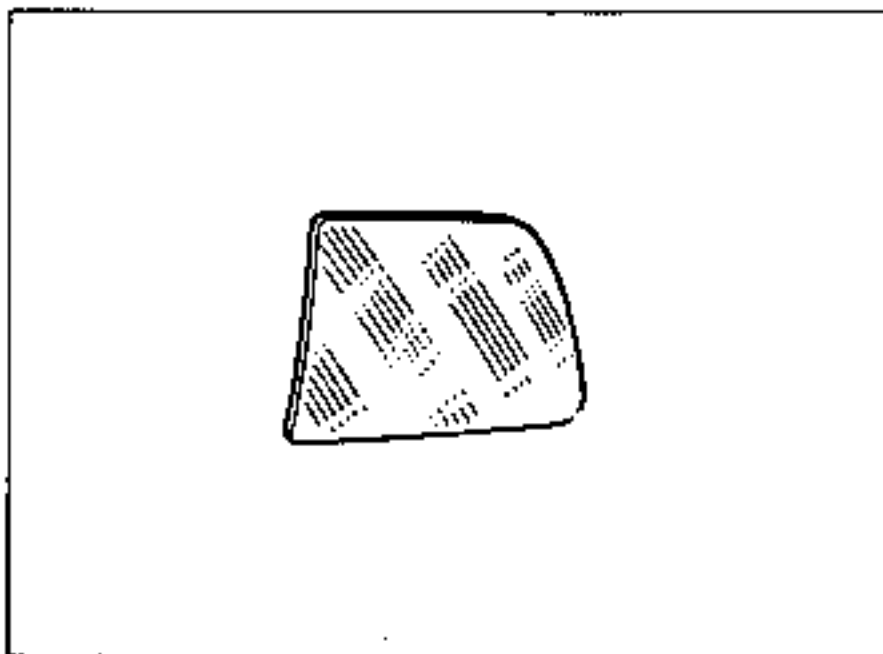
Disconnect the 2 leads from the wind-screen defrosting device (A).

Using a Facom D116 or a flat screwdriver without a cutting edge, pass the inner lip of the seal under the windscreen flange (B).

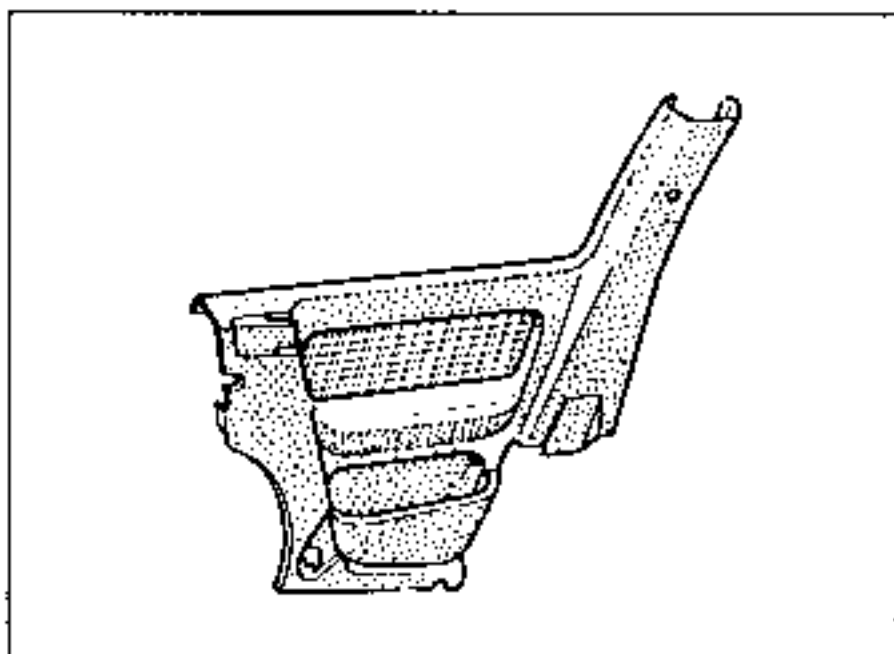
Remove the screen and its seal.

For refitting, proceed in the same manner as for the rear quarter panel window.

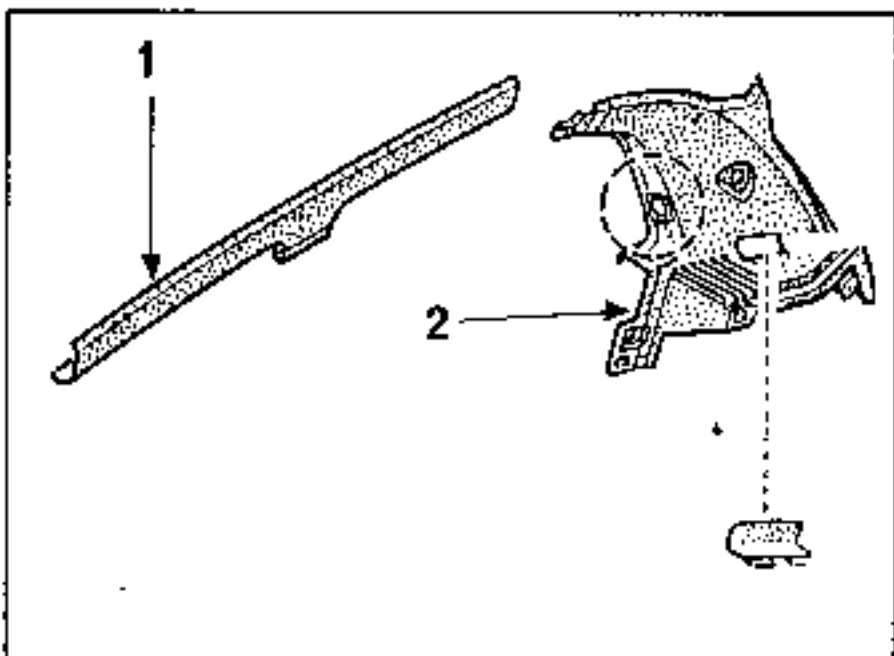




REMOVAL

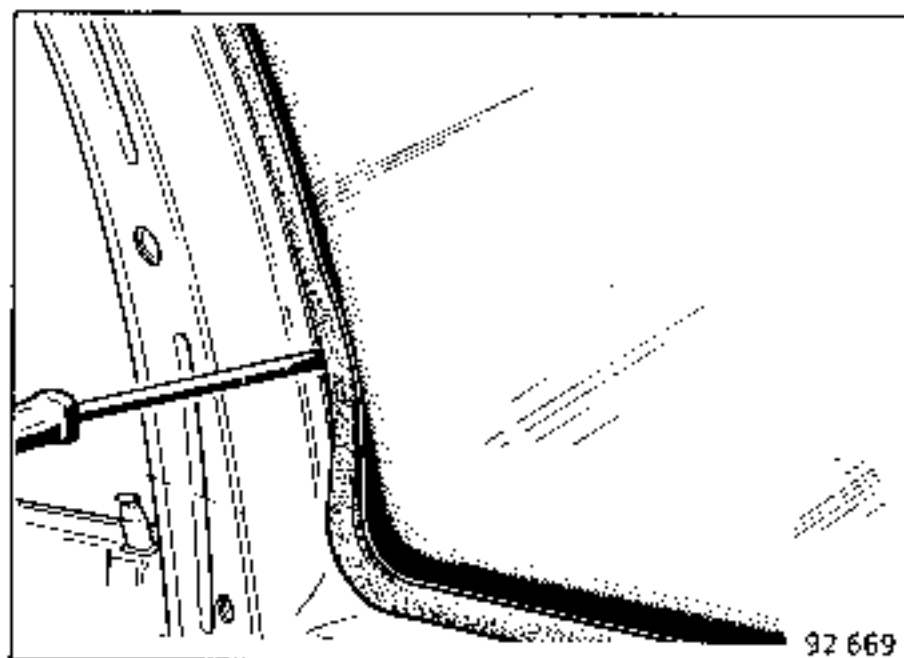


- Remove the seat belt mounting;
- side panel trim;

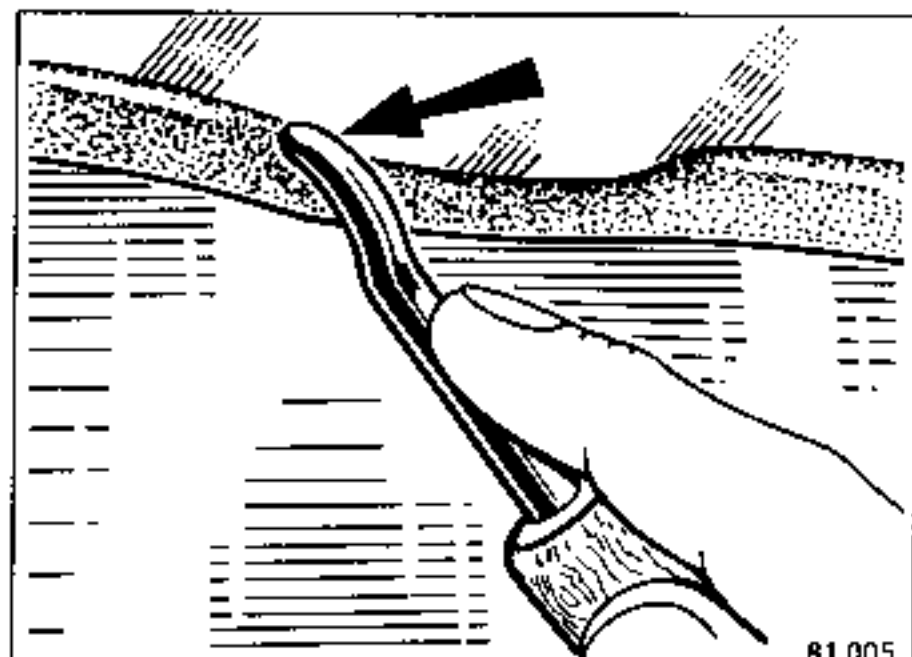


- upper headlining (1);
- rear side shelf (2).

Using a FACOM D116 or a flat screwdriver without a cutting edge, pass the inner lip of the seal under the window flange, starting at the upper part.



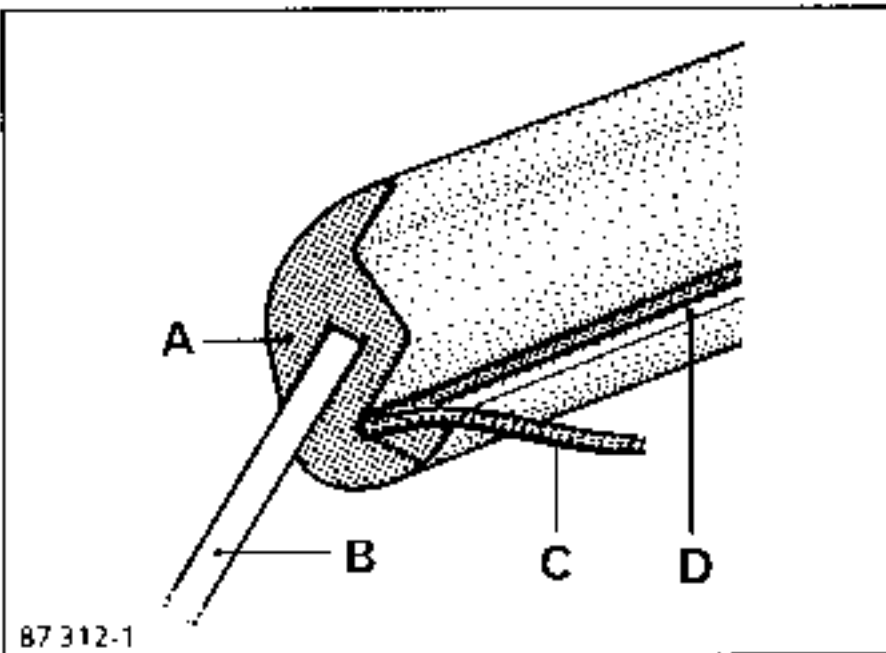
92 669



81 005

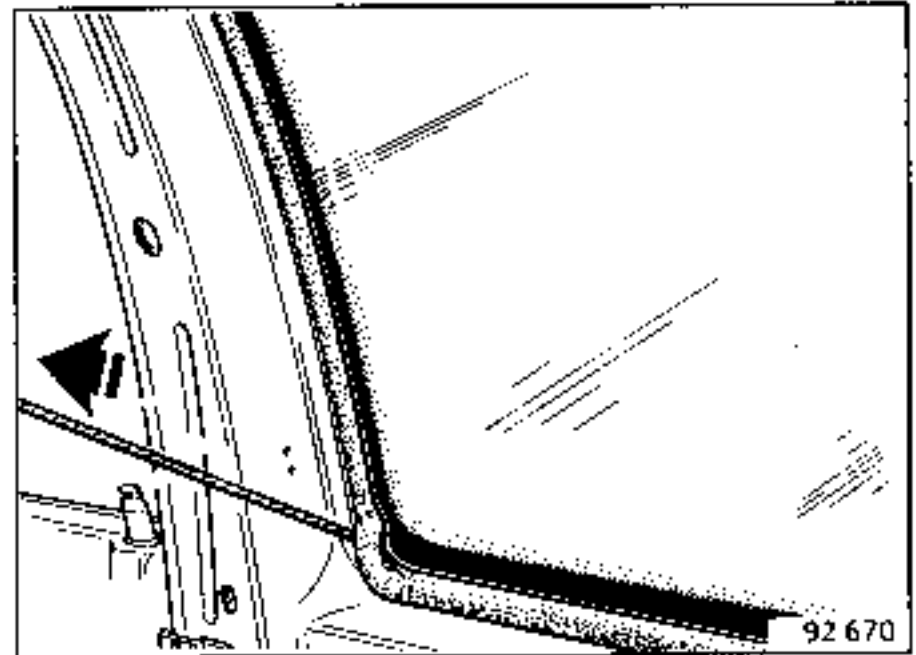
Remove the window and its seal.

REFITTING



Fit the sealing rubber (A) on the window (B) and engage cord (C) in groove (D) so that the ends of the cord emerge from the groove in the lower part of the window.

Cross over the ends of the cord over approximately 200 mm.

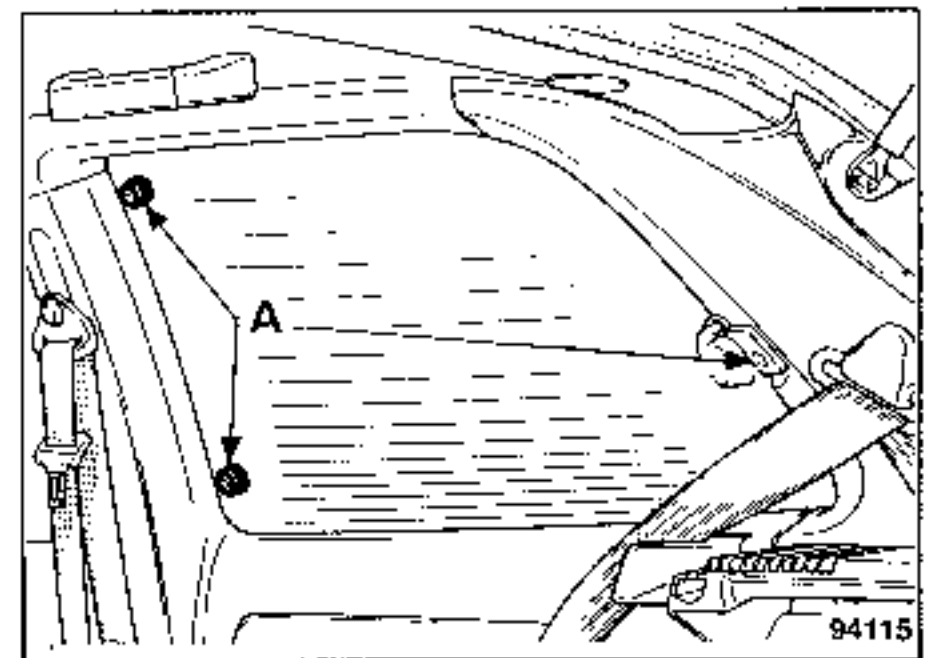
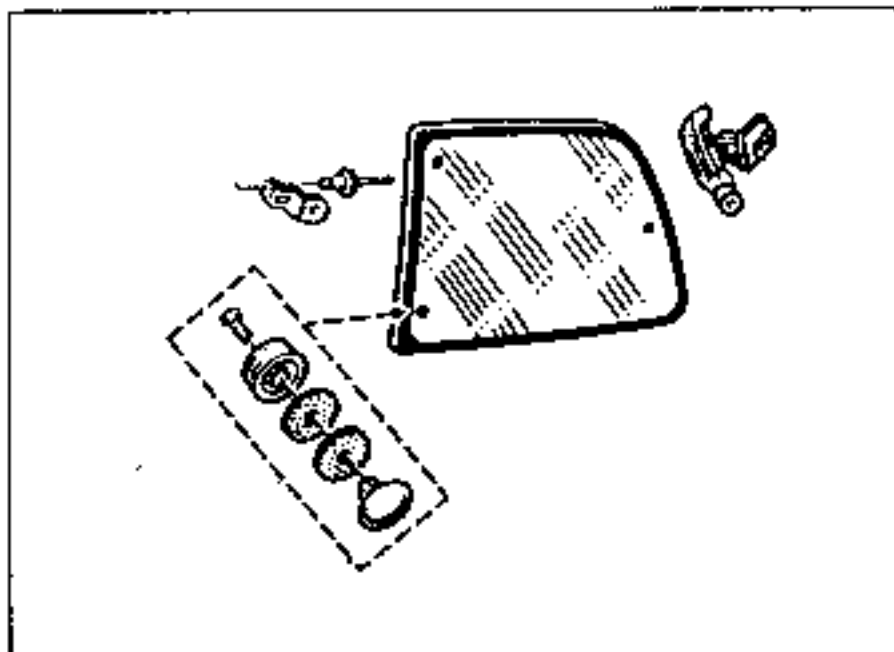


Offer the assembly up to the window frame, passing the ends of the cord inside the vehicle.

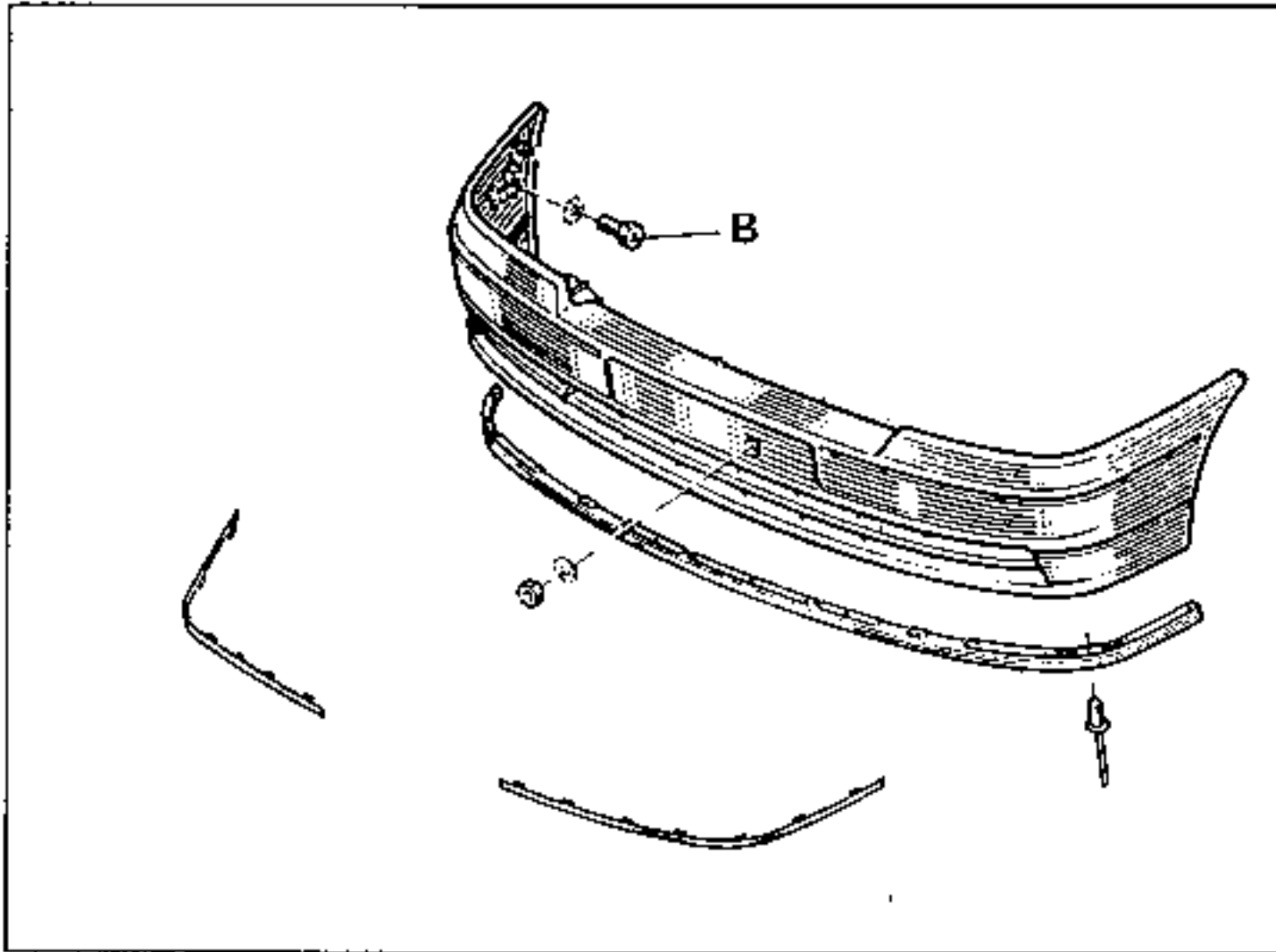
Start to pull one of the ends of the cords so as to pass the seal lip over the flange. As the cord gradually emerges, help it to unwind from the exterior by exerting light pressure on the window with your hand. When the cord reaches the centre line of the window, repeat the same operation with the other end of the cord.

REAR QUARTER PANEL OPENING WINDOW

REMOVAL



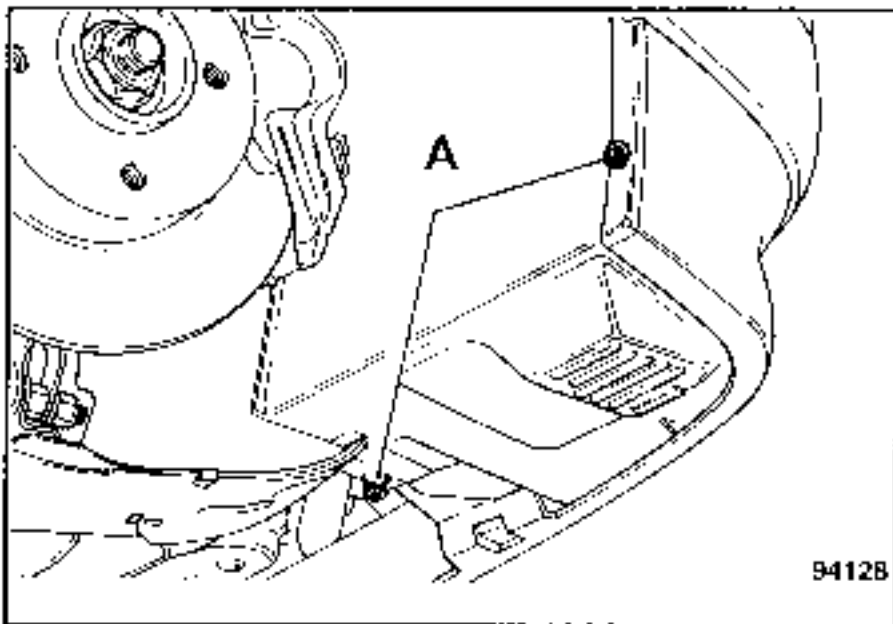
Remove the 3 screws (A).



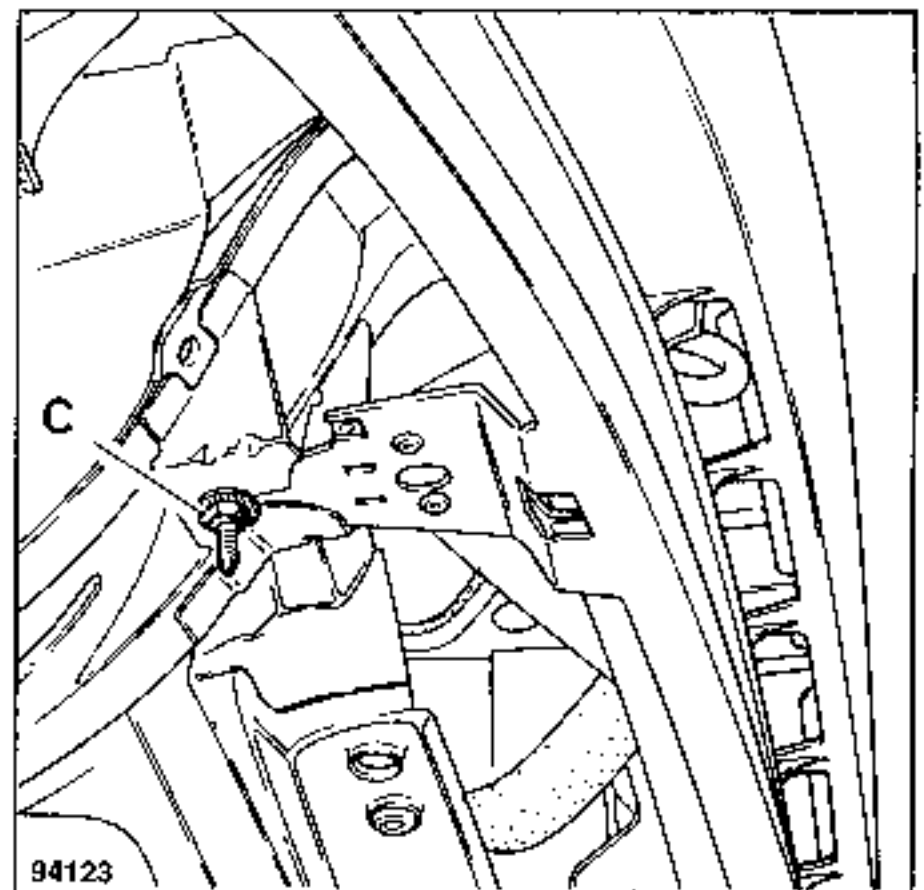
REMOVAL

First remove the front grille and number plate.

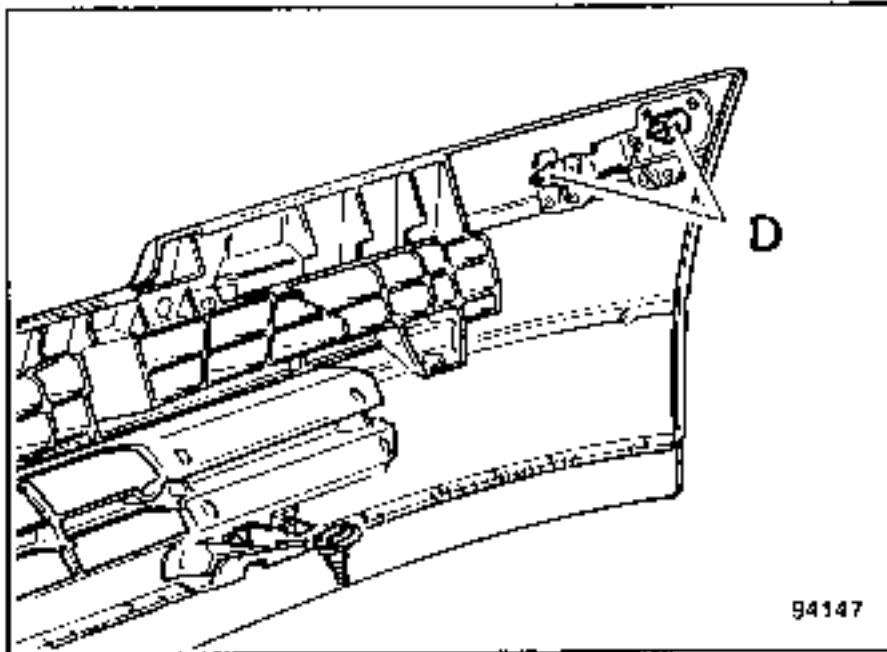
From underneath the vehicle, unscrew the side mountings (2 6 mm bolts) (B).



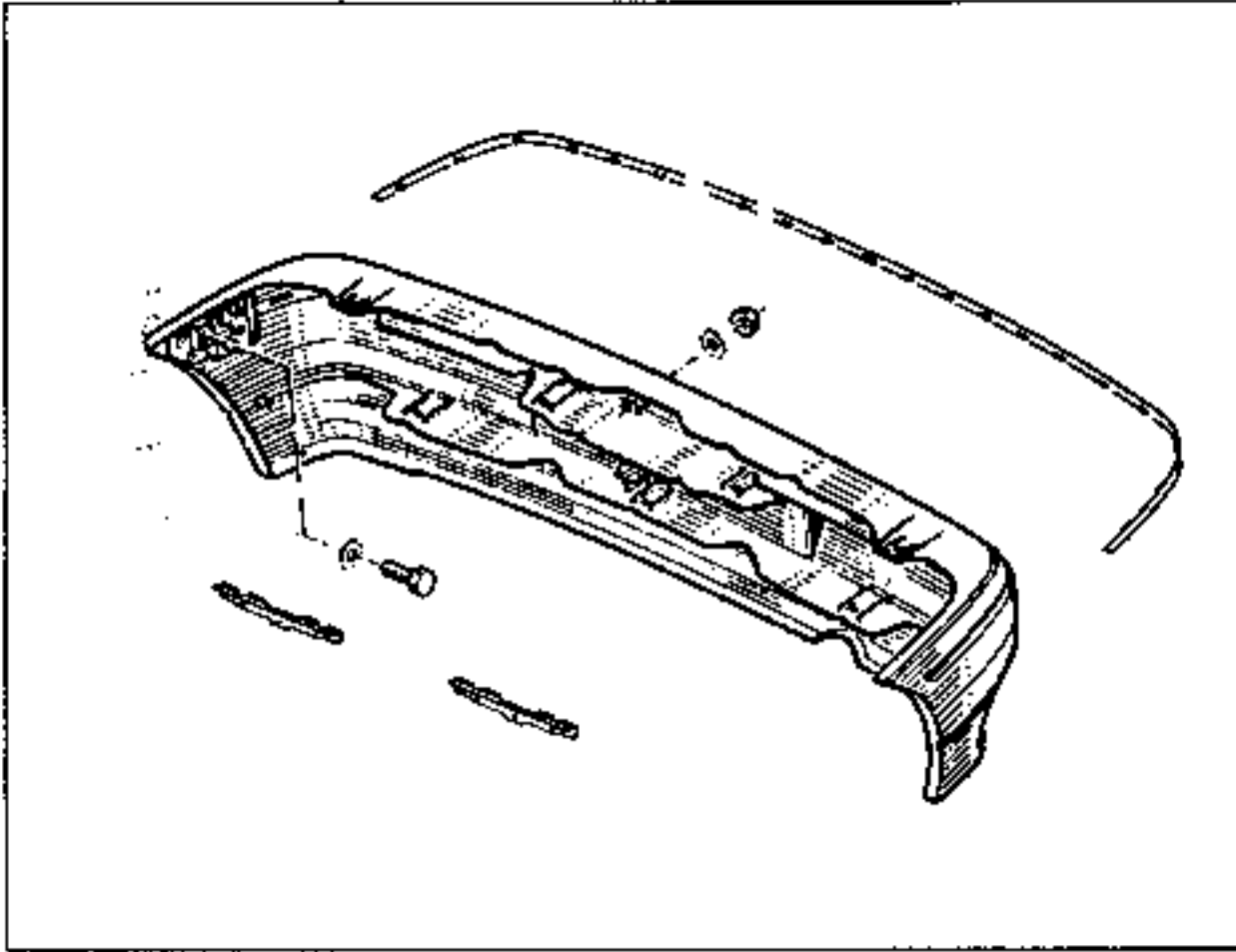
Partially remove the plastic mud flap (A), so as to be able to reach the side and lower mountings.



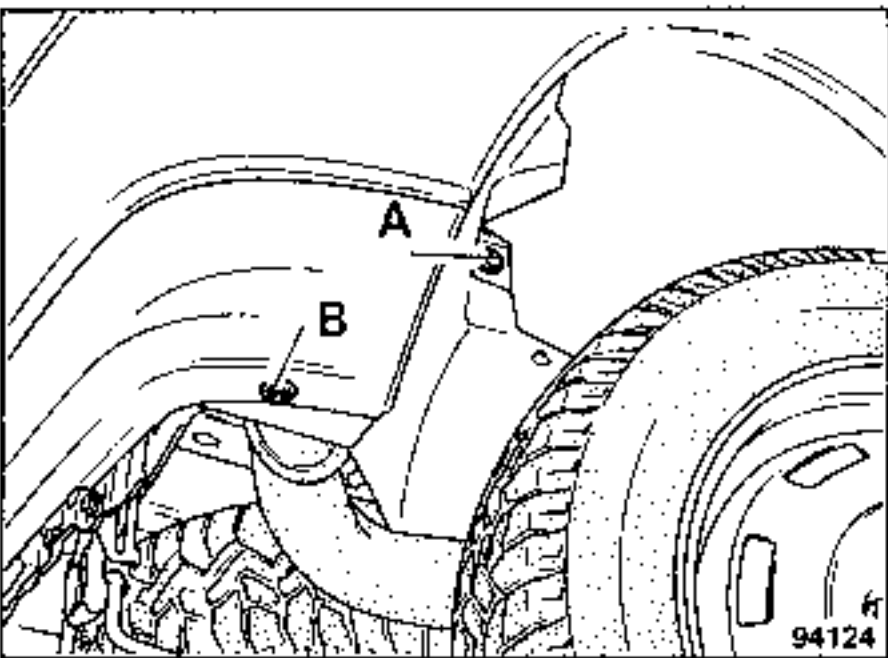
Slacken the 2 lower 6 mm diameter nuts (C).



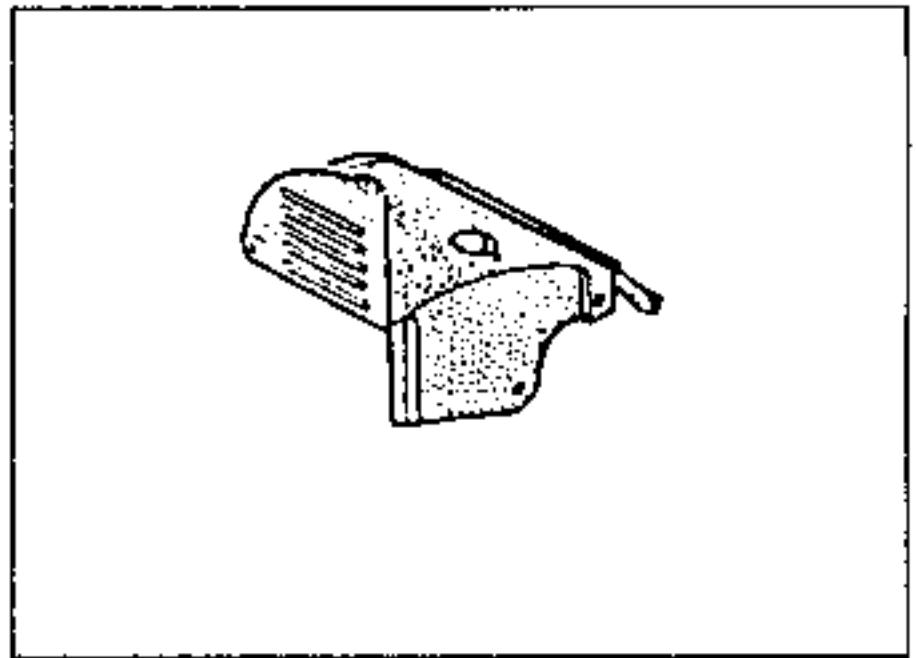
Move aside the ends of the shield so that the locating pins (D) can be removed and pull the shield backwards.



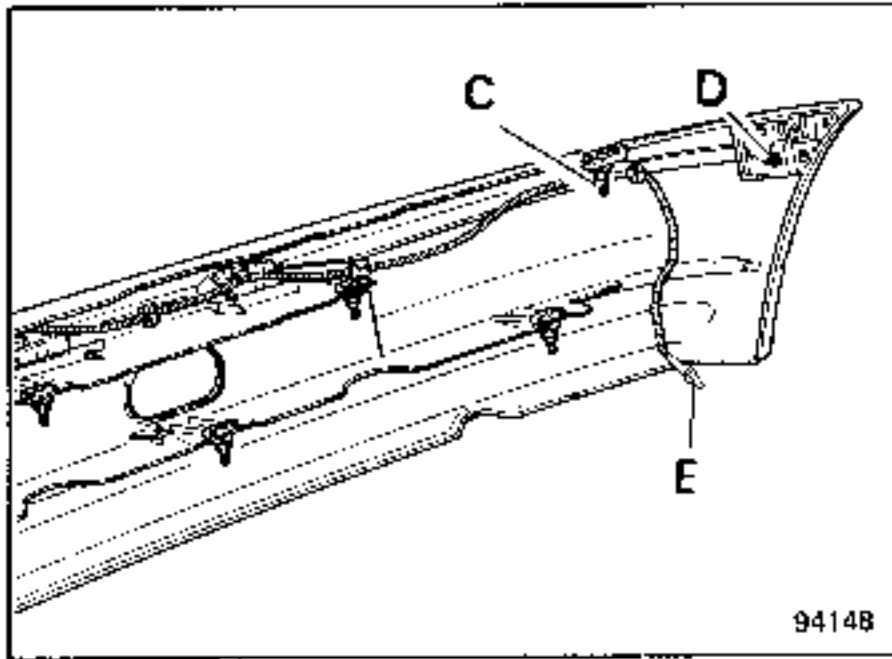
REMOVAL



Unscrew the 2 steel 7 mm diameter nuts (A) and bolt (B) to gain access to the side mountings.



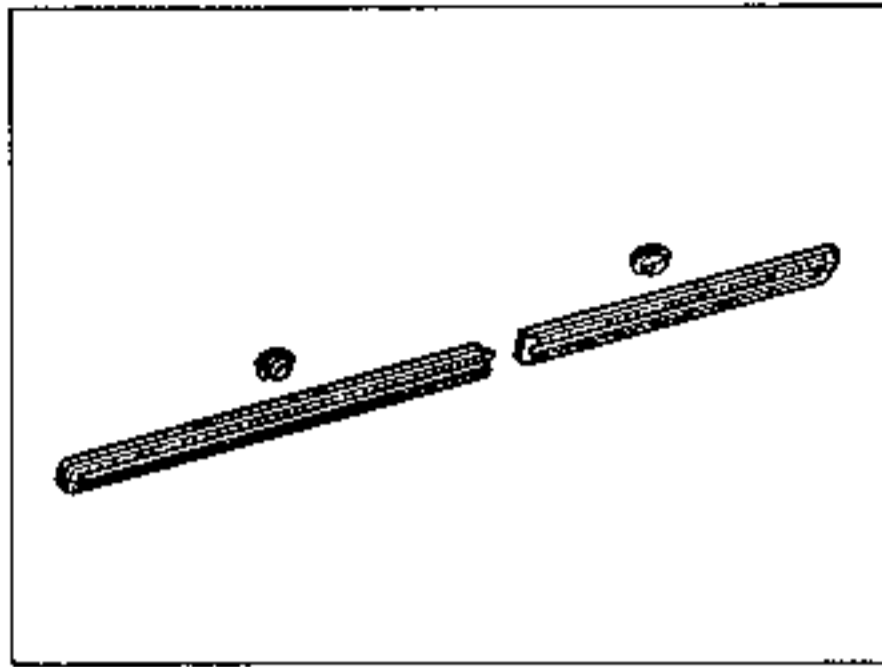
Remove the entire mud flap from the rear left hand wheel arch (Torx 20 type bolt).



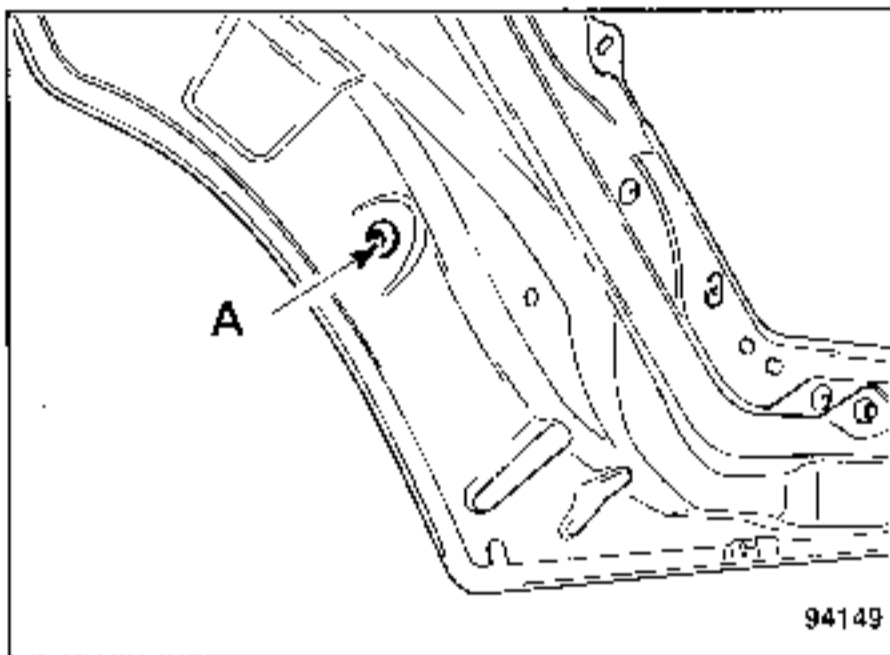
Slacken the 7,6 mm diameter nuts (C) from underneath the vehicle.

Move aside the ends of the shield so that locating dowels (D) are freed and pull the shield backwards.

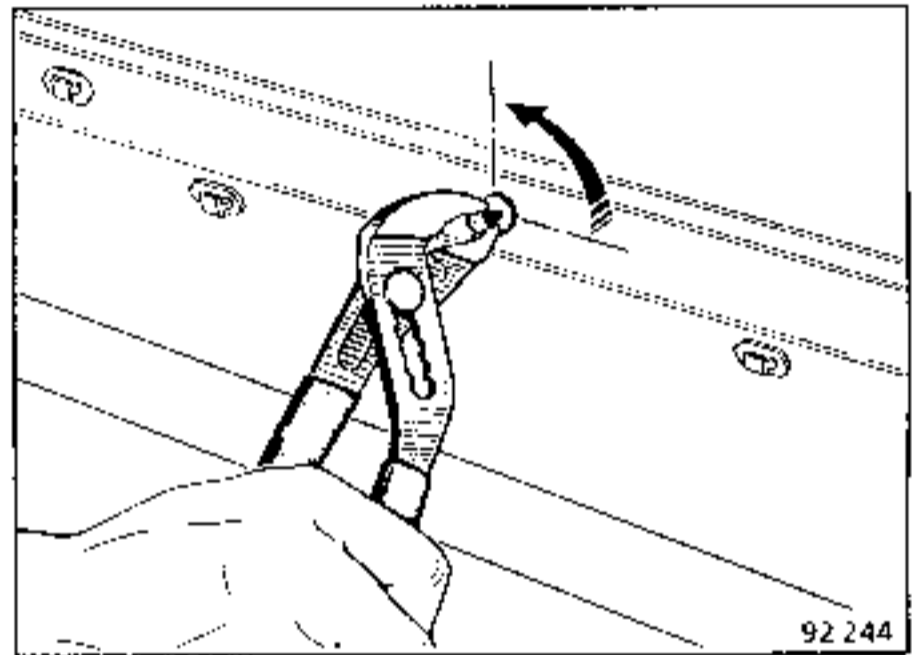
When the shield is disengaged, disconnect the wiring harness (E).



REMOVAL

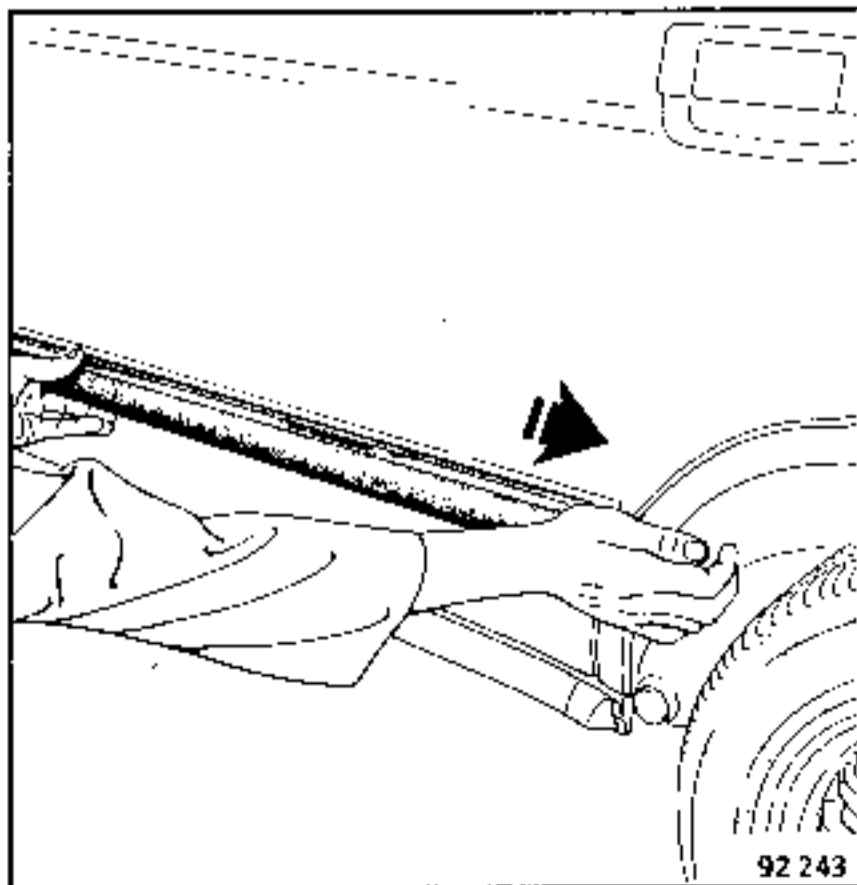


Remove the blanking cover and unscrew the Torx 20 type bolt (A) from the positive mounting.



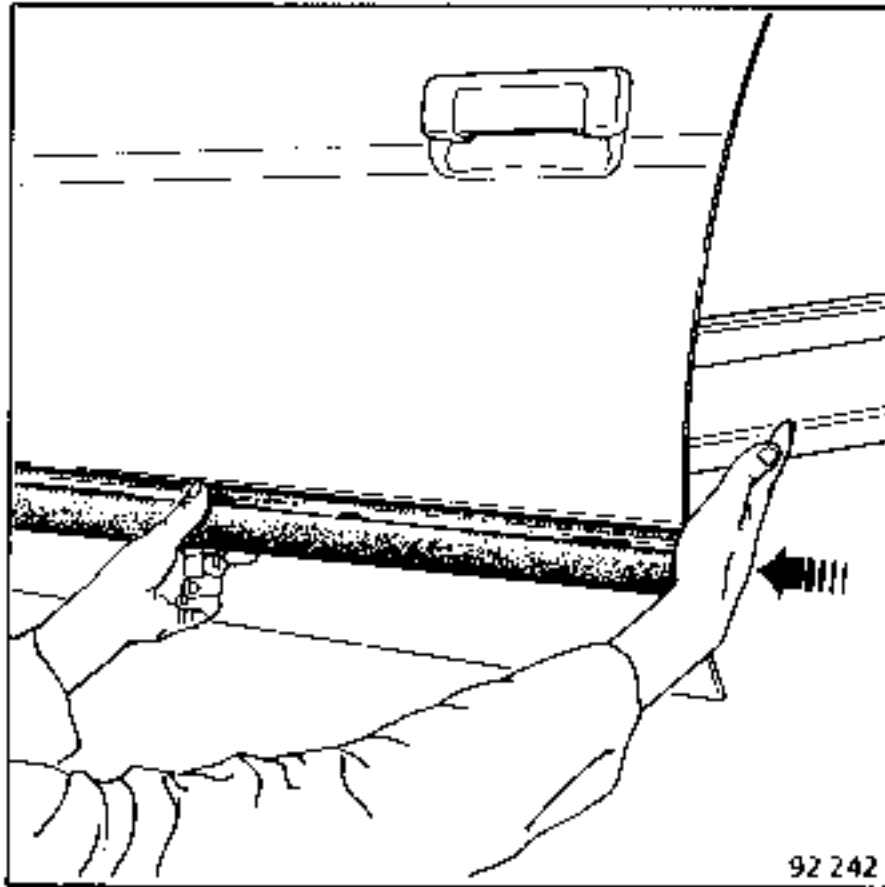
Method of recovering the quarter-turn clips securing the strips:

Using a pair of pliers, turn the clip one quarter of a turn to remove it.



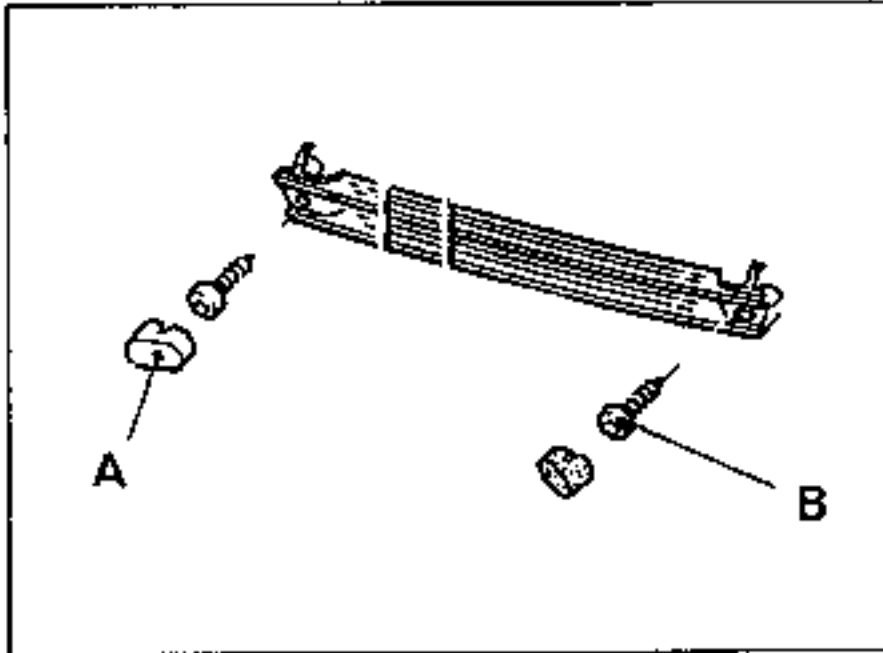
Unclip the strip, pushing it towards the rear of the vehicle.

REFITTING



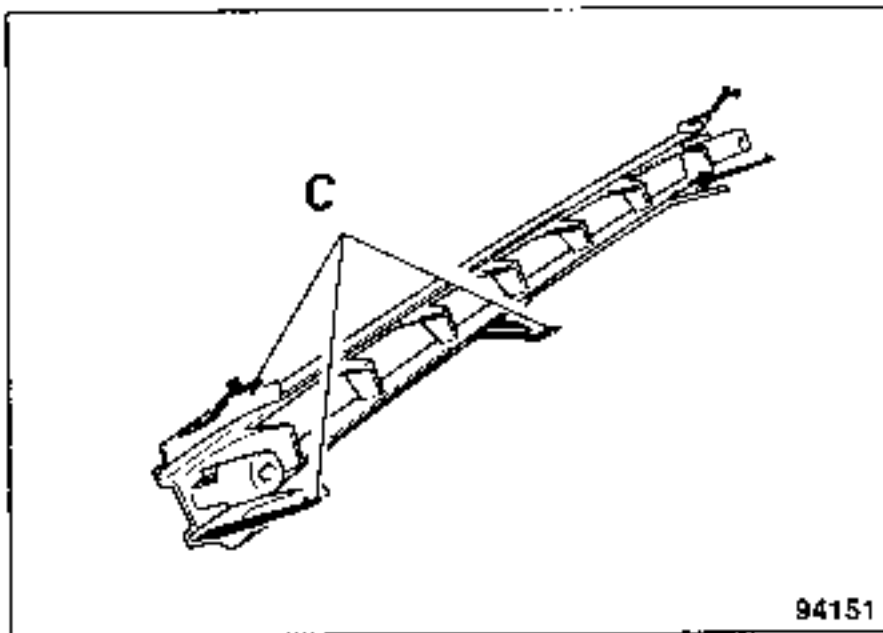
Close the door.

Clip the strip back in place opposite
the clips.

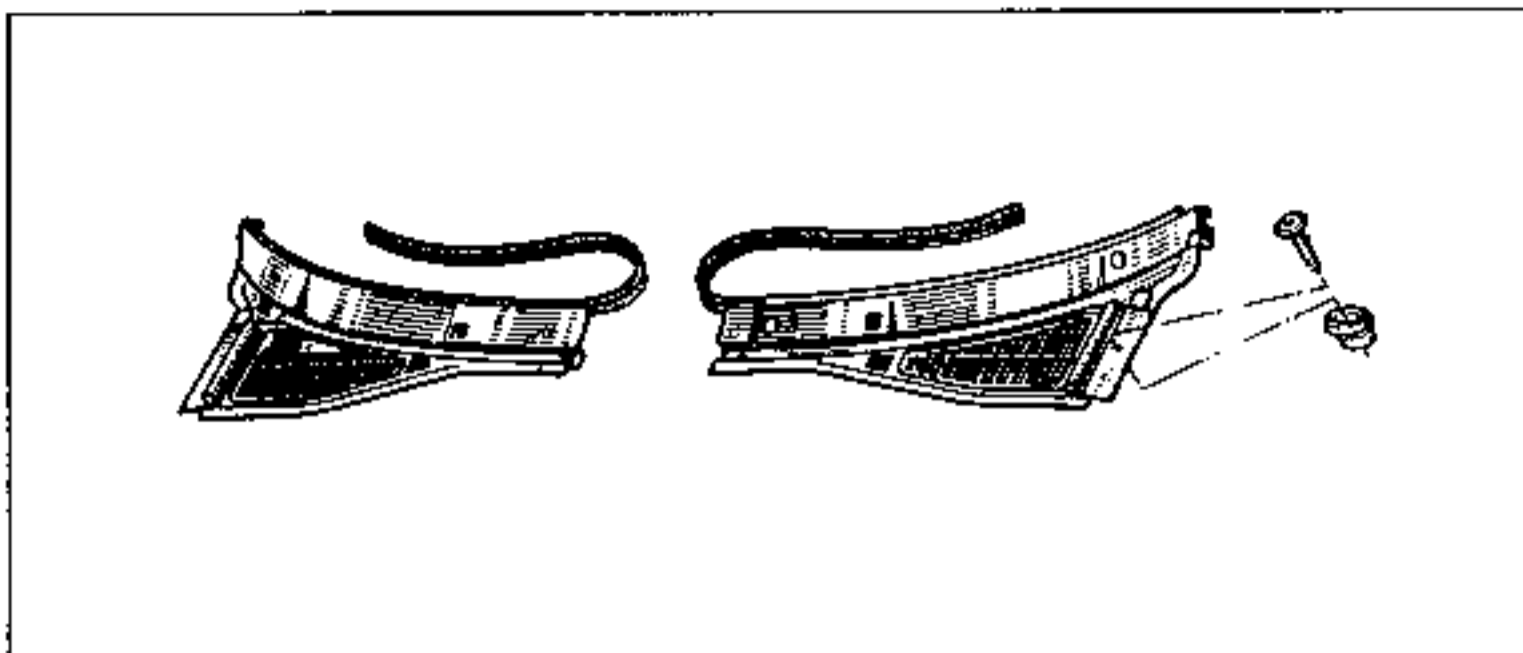


Remove covers (A).

Unscrew the 2 Torx 20 type bolts (B).

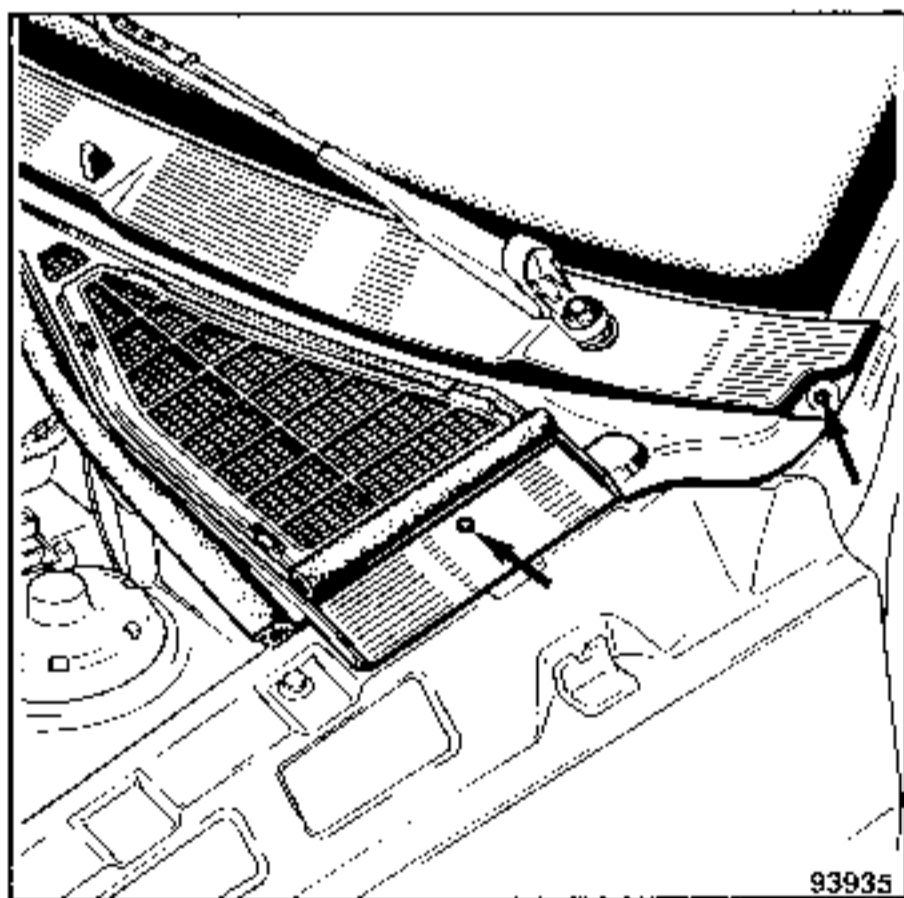


Carefully move aside plastic lugs (C) at each end and in the centre, so that the grille can be removed.

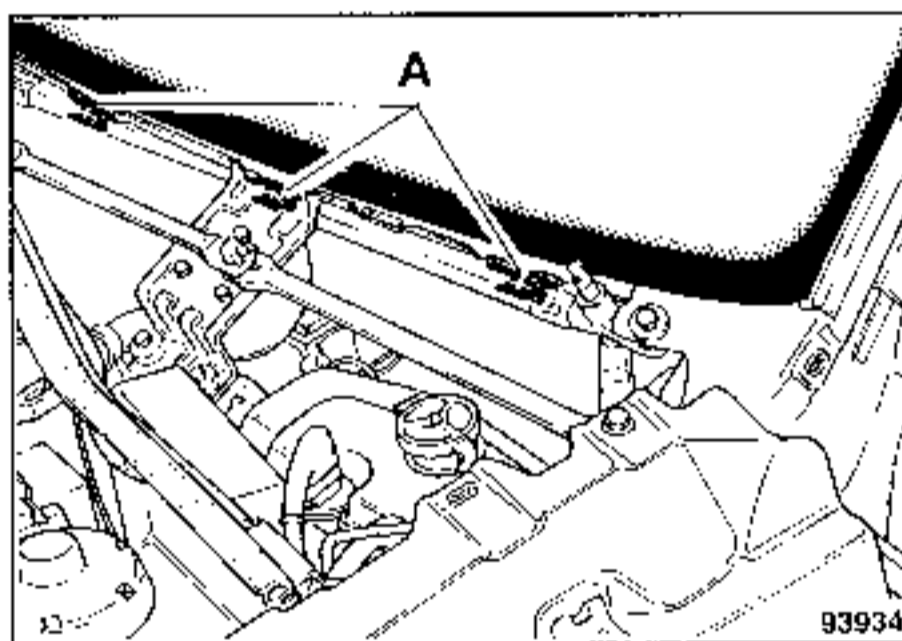


REMOVAL

First remove the windscreen wipers.



Unscrew the 5 10x 20 type bolts completely.

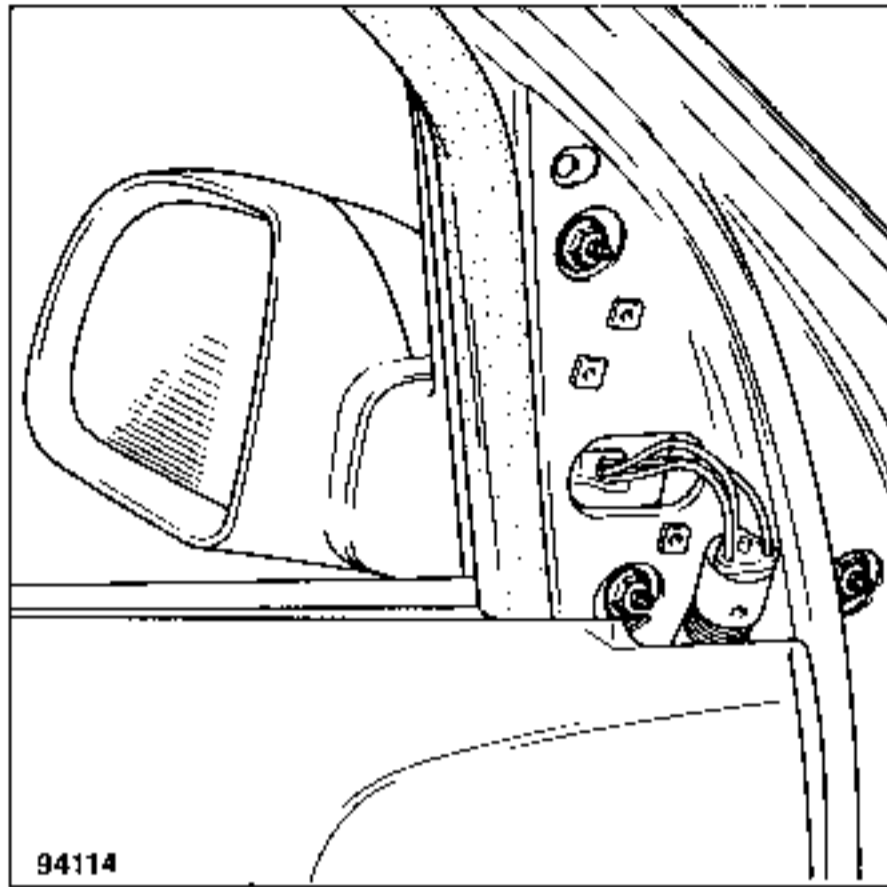


Unclip the grille carefully along the windscreen; the grille is held in place by metal clips (A).

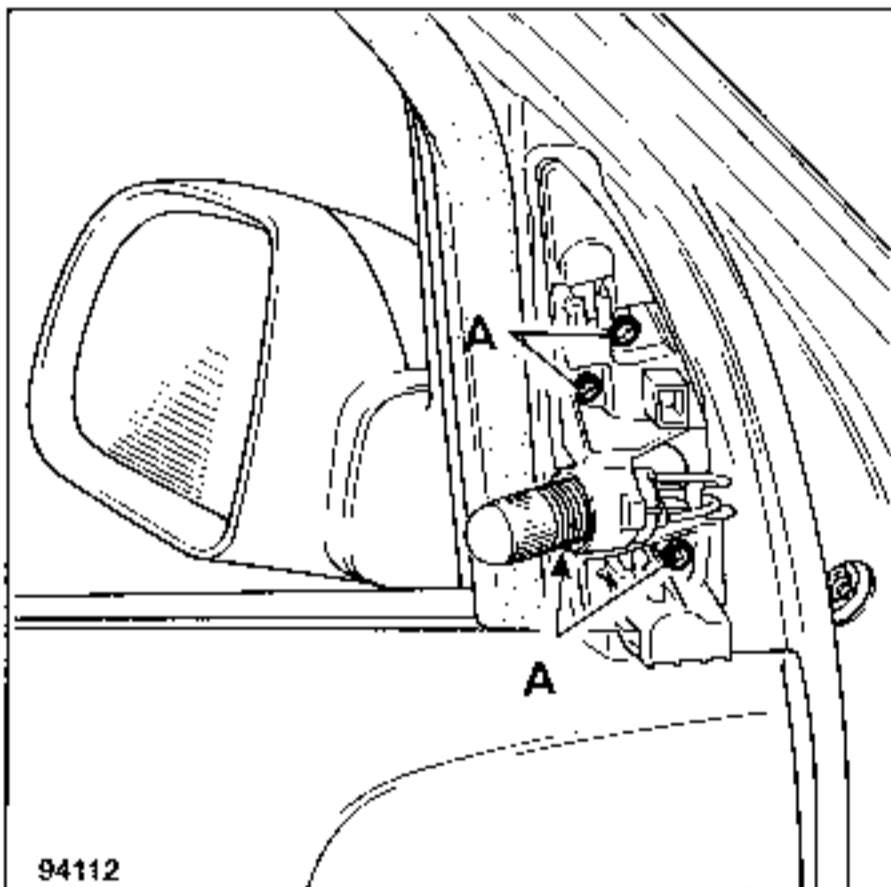
REFITTING

On refitting, check that these clips are correctly positioned.

COMMENTS: If a grille is replaced on one side only, it is preferable to remove it entirely and then separate the 2 parts.



REMOVAL



Remove:

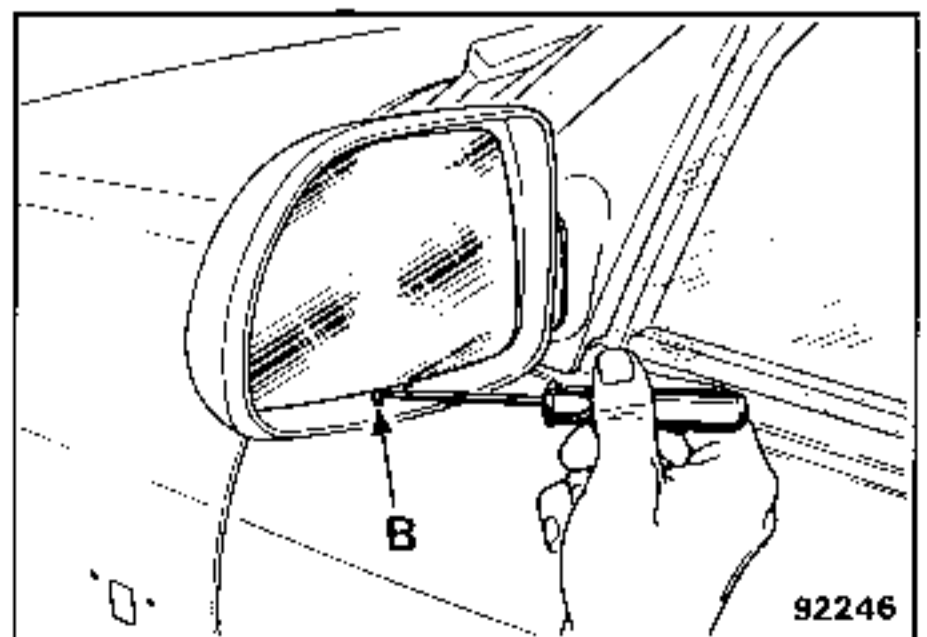
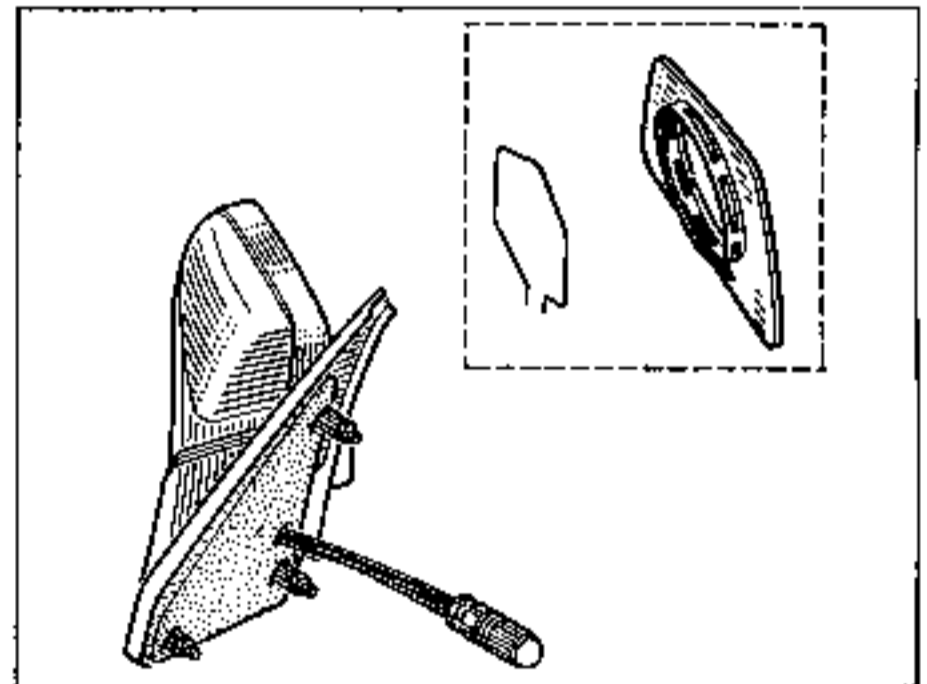
- the inner cover;
- the 4 adjustment support screws (A);
- the 2 rear view mirror mounting nuts.

REMOVING THE MIRROR (rear view mirror in place)

Two types of mirror may be fitted to the vehicle, the difference being whether the glass is clipped or locked in place.

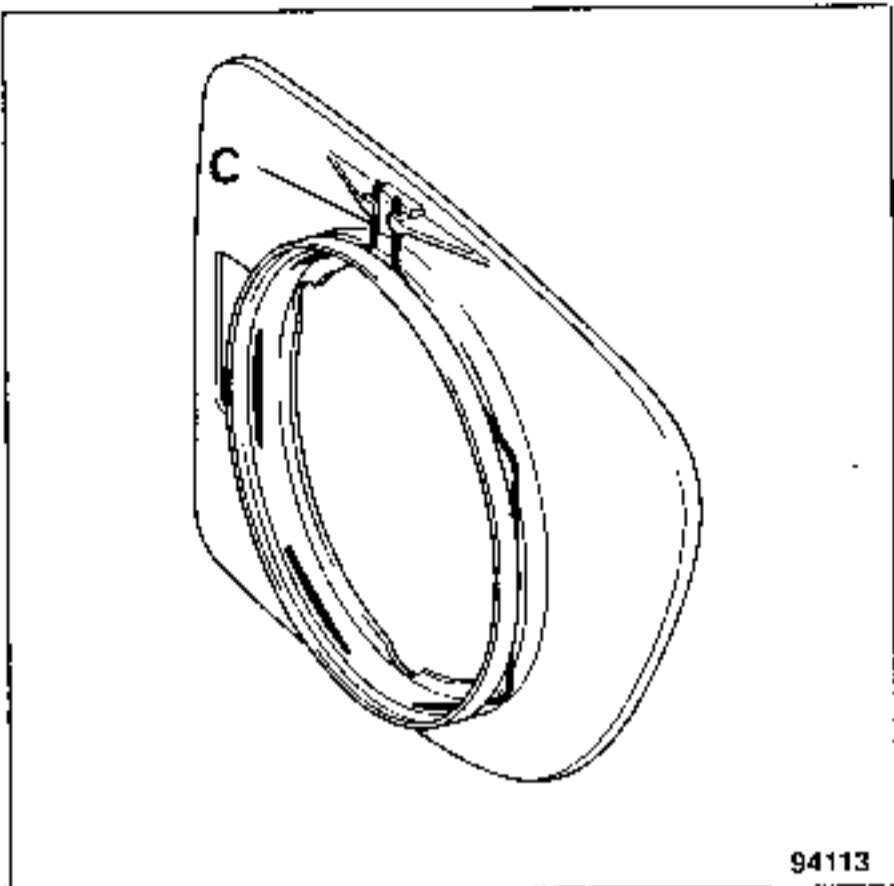
MIRROR WHICH IS CLIPPED IN PLACE

REMOVAL

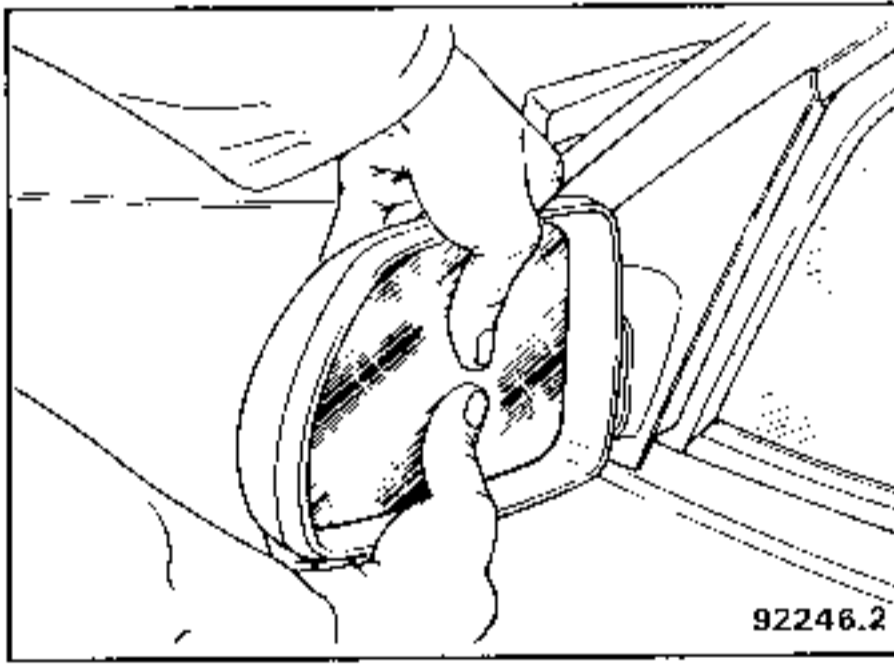


Unclip the glass, by unfastening spring (B) using a flat screwdriver.

REMOVAL.



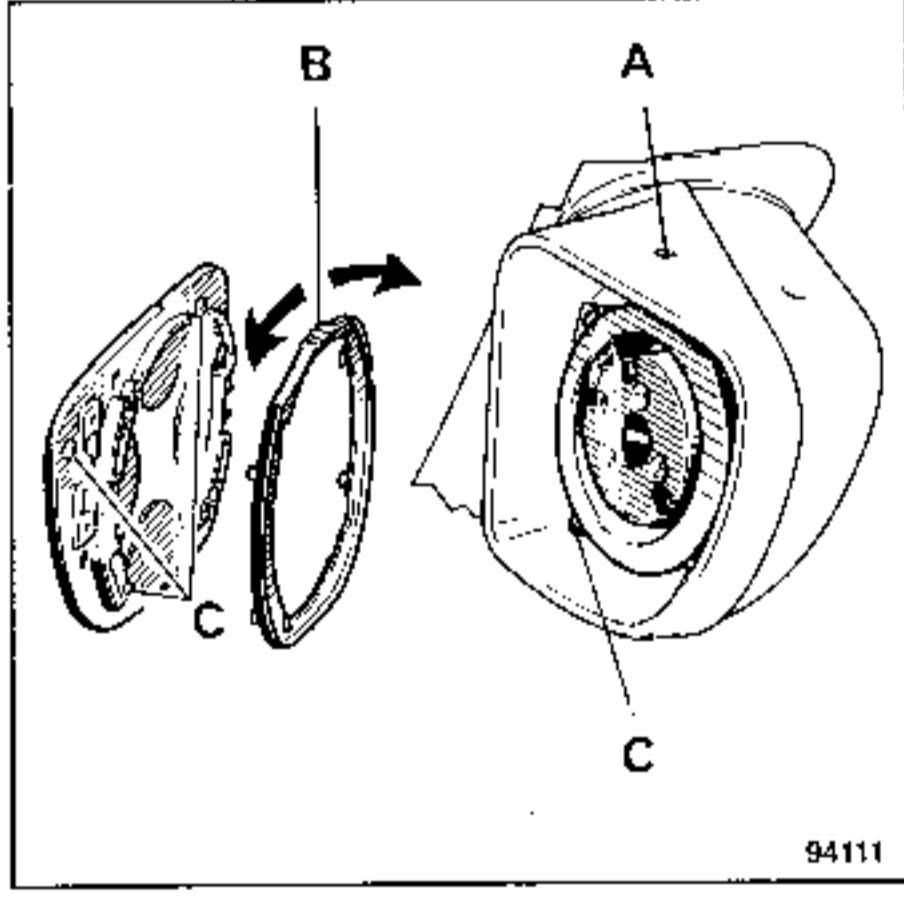
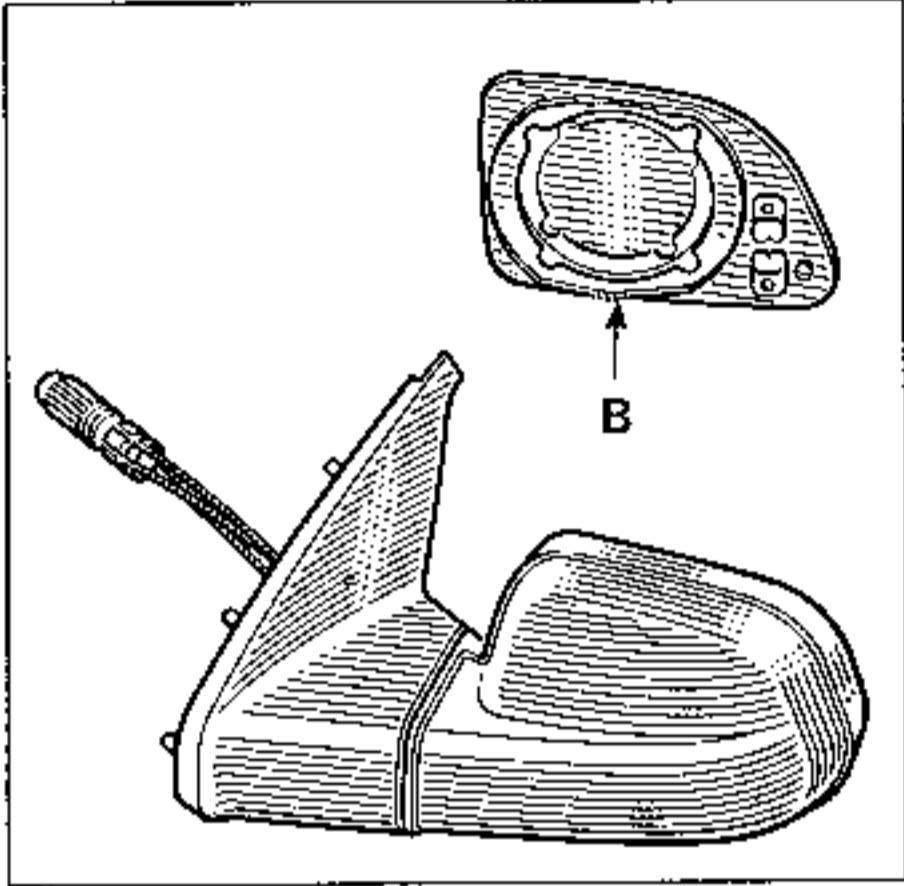
Fit the spring back in place before re-fitting the glass (C).



Push gently to clip the glass in place.

MIRROR WHICH IS LOCKED IN PLACE

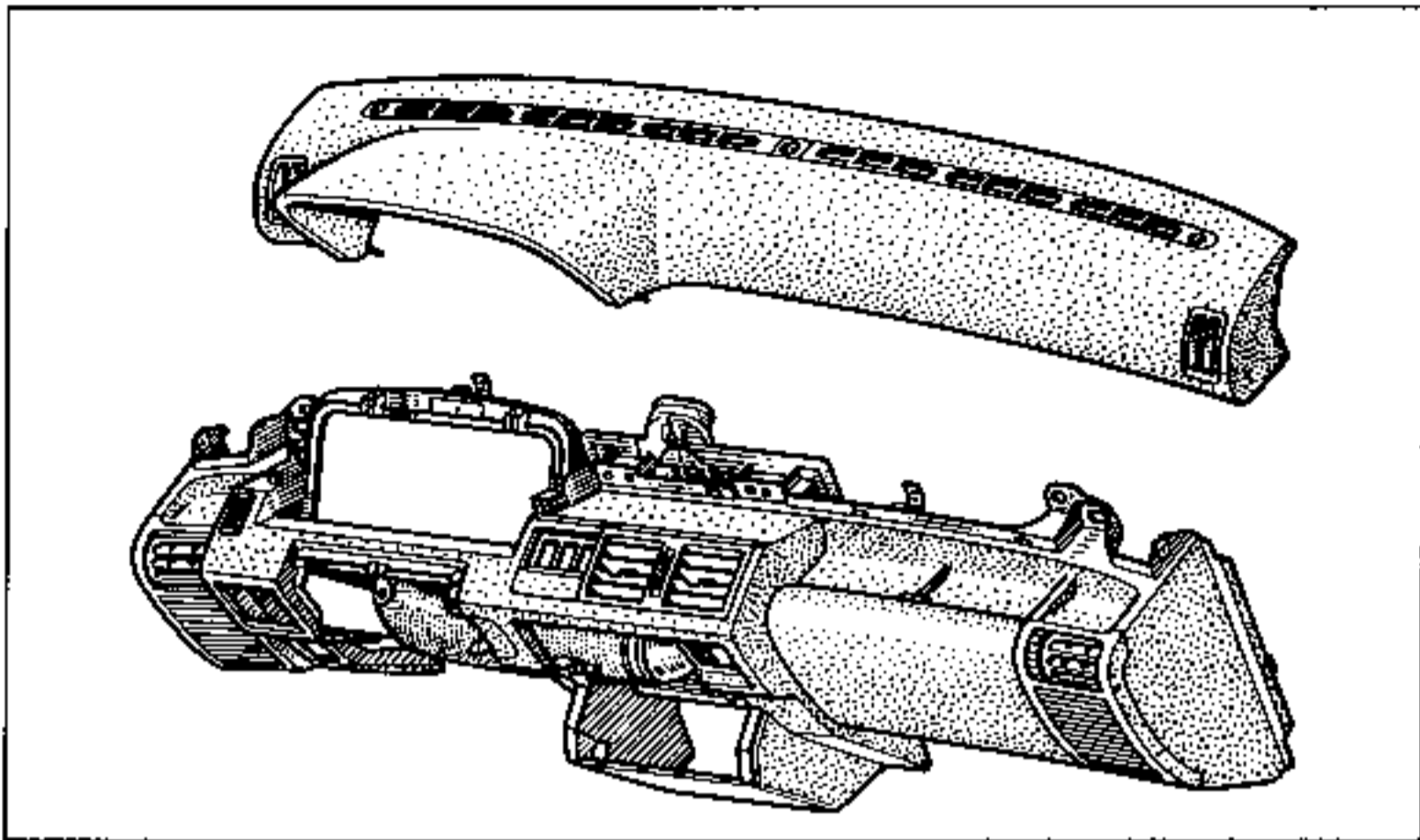
REFITTING



Insert a flat screwdriver under the rear view mirror through aperture (A) provided for this purpose so that plastic locking ring (B) can be rotated.

REFITTING

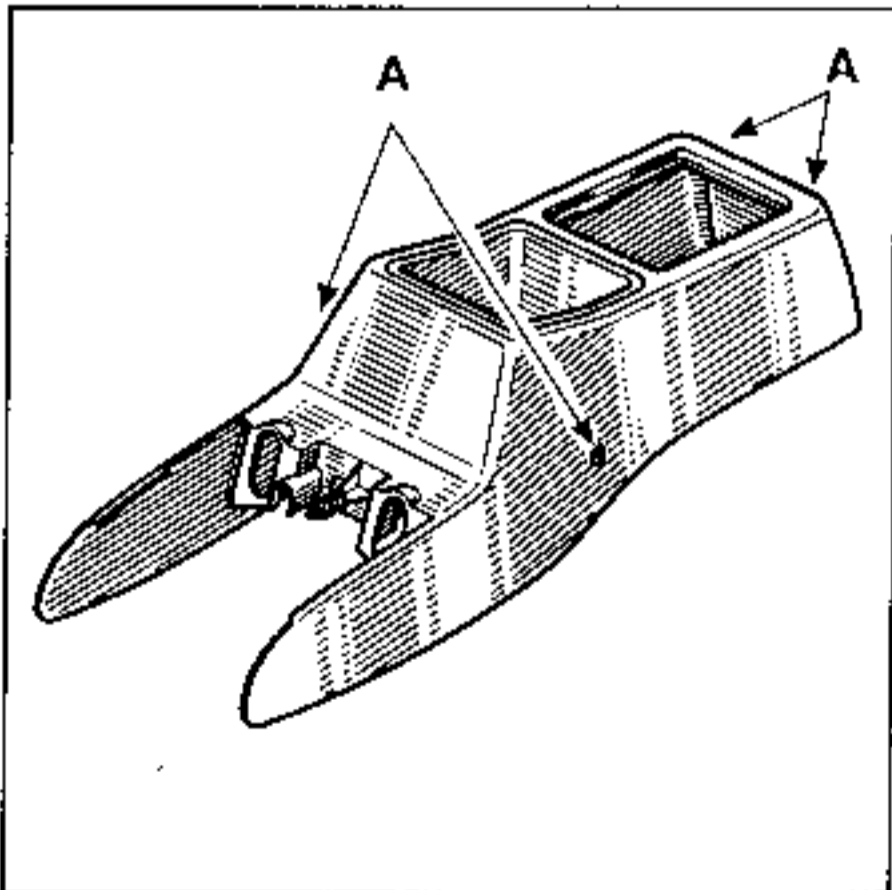
On refitting, fit the glass in place on its mounting using the four guides (C). Lock the plastic ring in place in the same way as for removal but rotating it in the opposite direction.



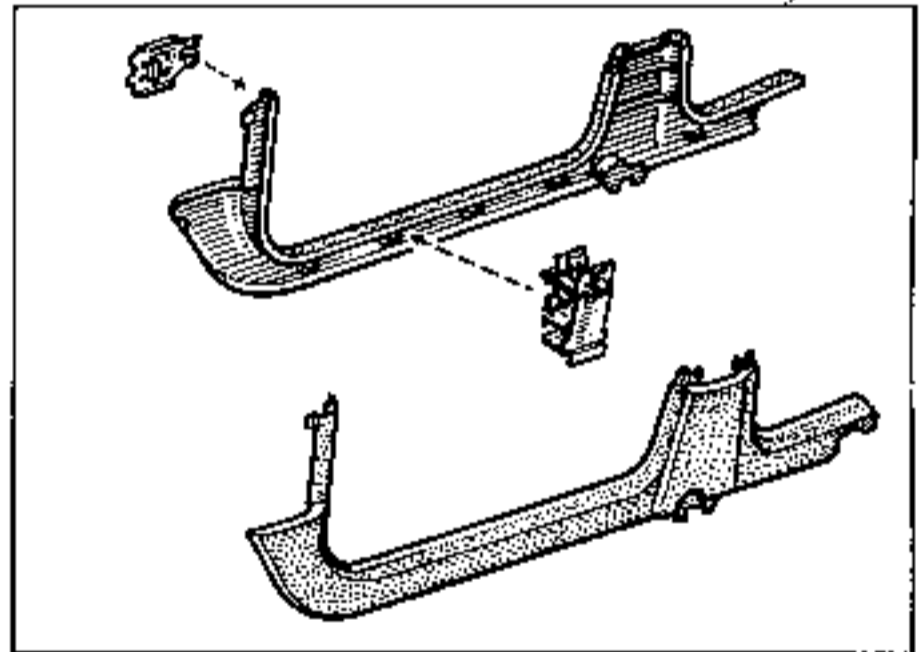
REMOVAL

Disconnect the battery.

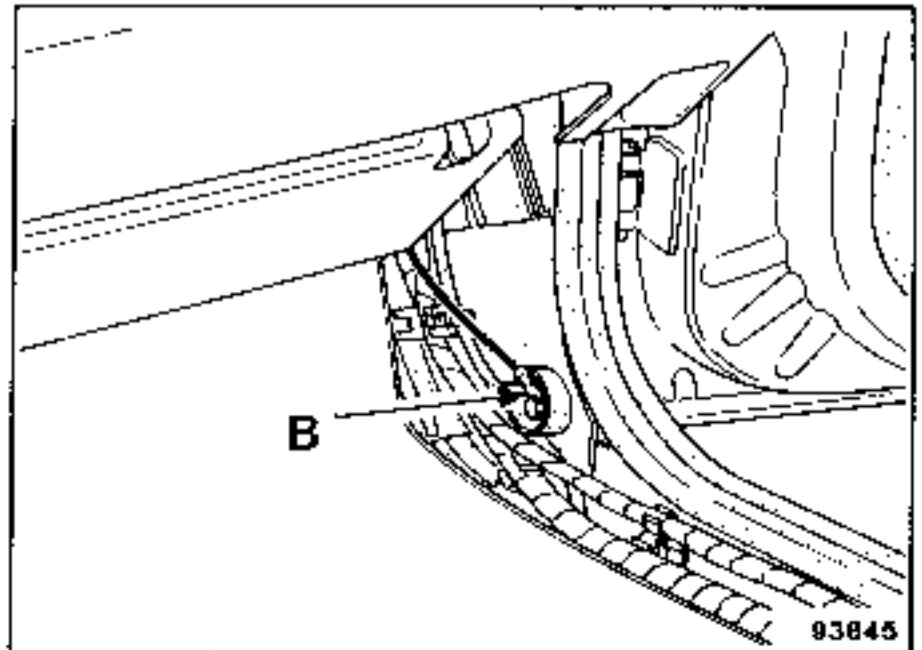
Remove the steering wheel.



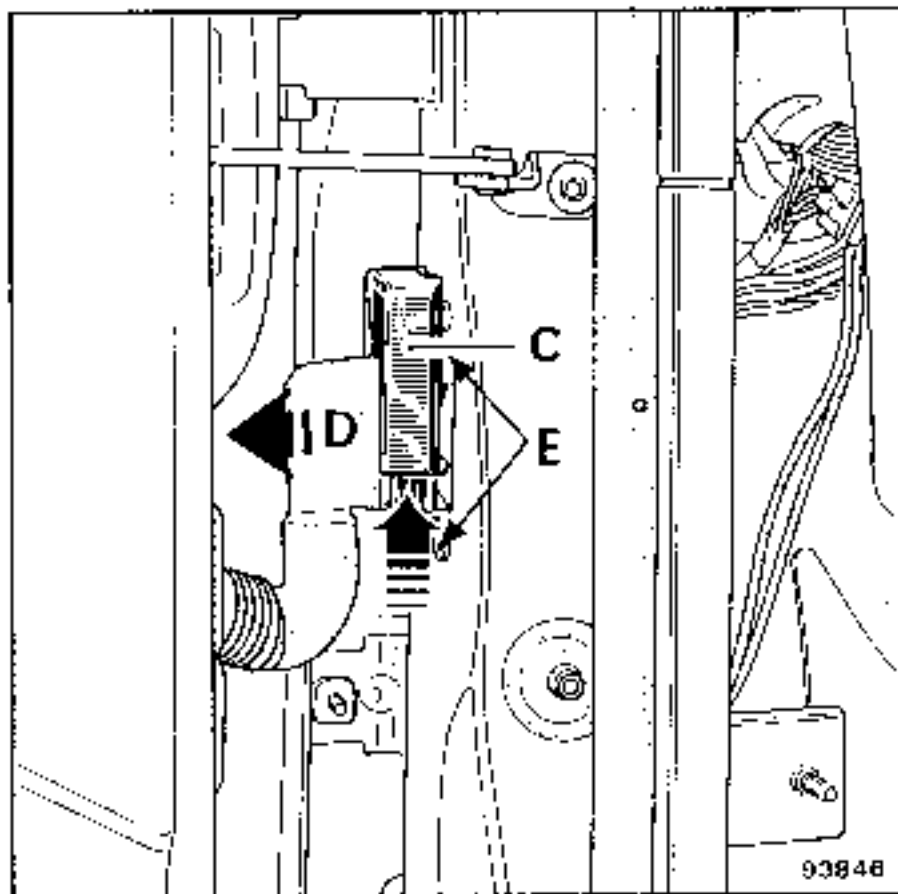
Remove the central console (4 bolts) (A).



Remove the lower mountings for the safety belts and remove the two sets of lower trim from the front pillar.

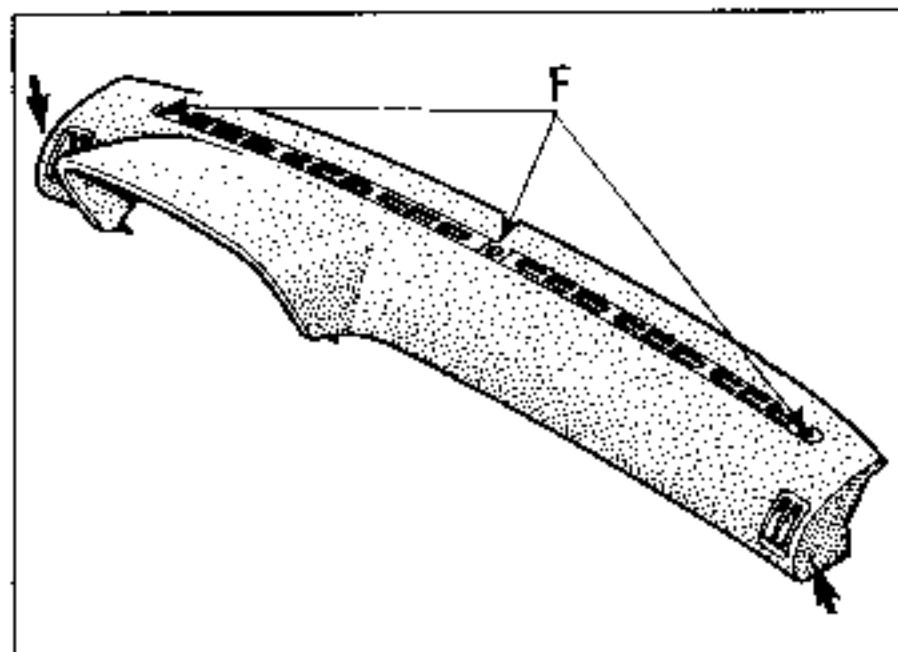


Disconnect the two earth leads (B).



Disconnect the wiring harness from the front pillar in the following way:

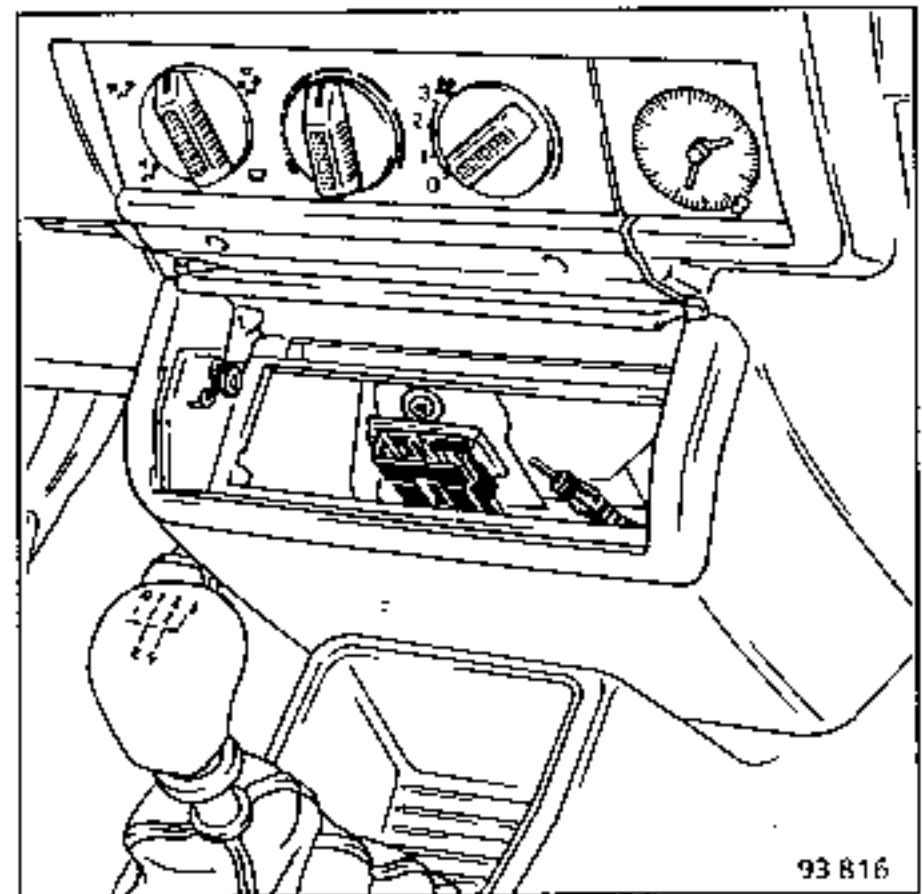
- Push plastic clip (C) upwards;
- Disconnect connector (D);
- Remove the 2 bolts (E).



Remove the upper part of the dashboard.

Remove the 5 screws (F).

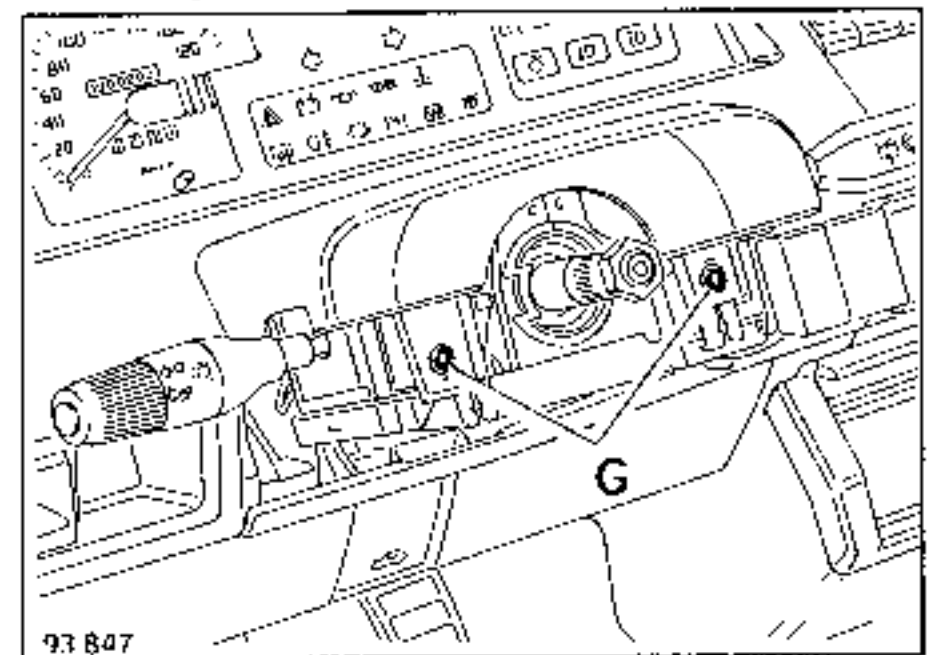
Pull the dashboard towards the rear of the vehicle so as to separate it from the assembly.



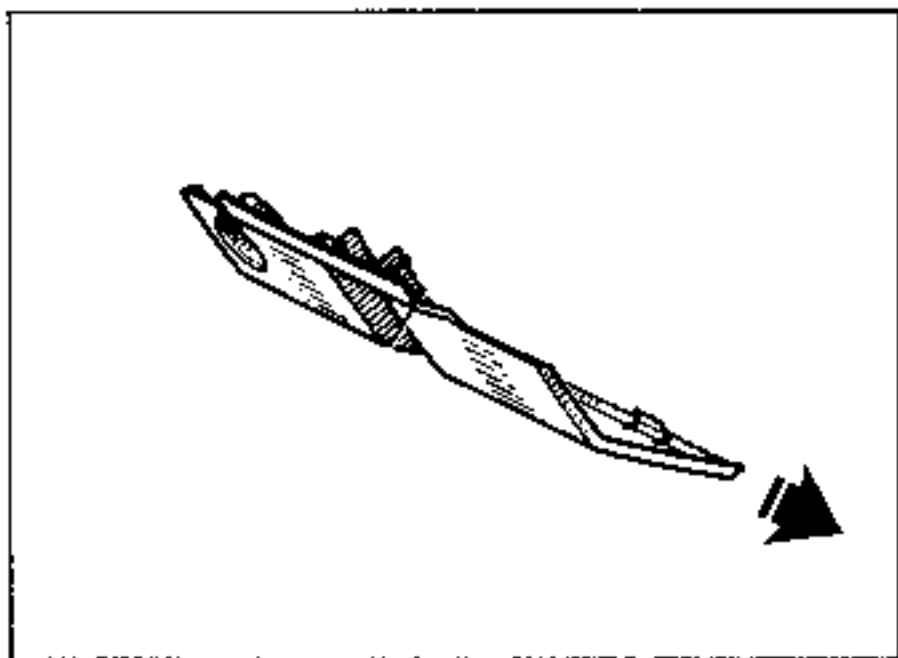
Remove the radio using suitable tooling.

Unclip the connector inside the console.

Remove the half casings under the steering wheel. After removing the 3 screws, start at the lower section and unclip carefully.

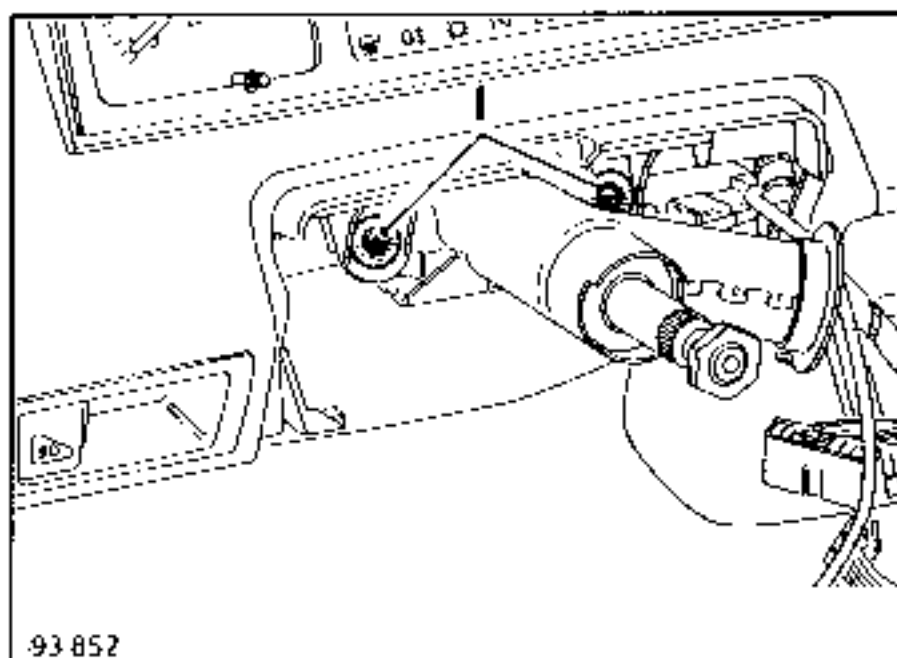


Remove the upper part (2 screws) (G).



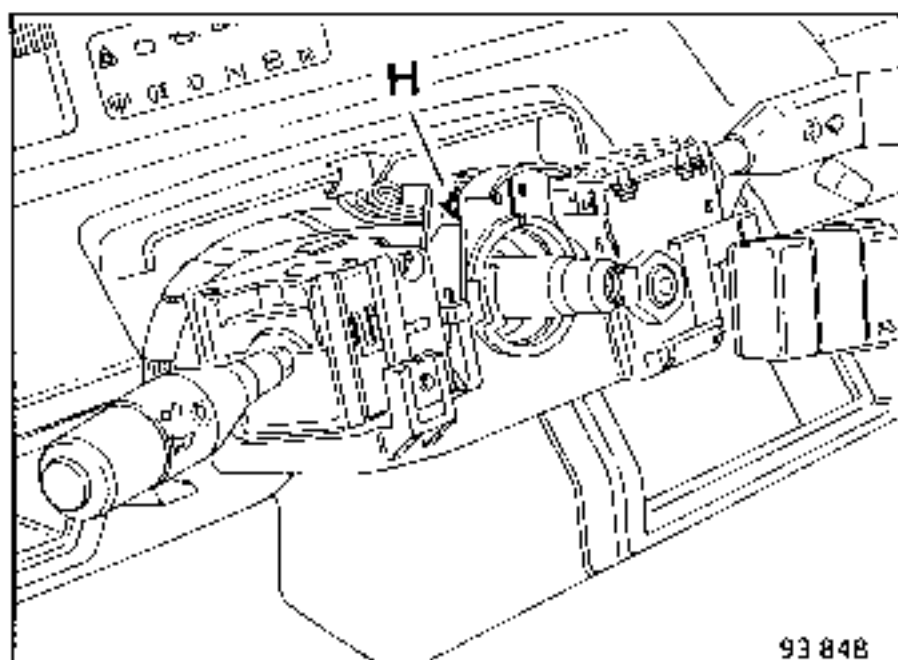
Remove the steering column cover.

Remove the 2 upper bolts and unclip by pulling downwards.



93 852

Remove the 2 bolts (T).

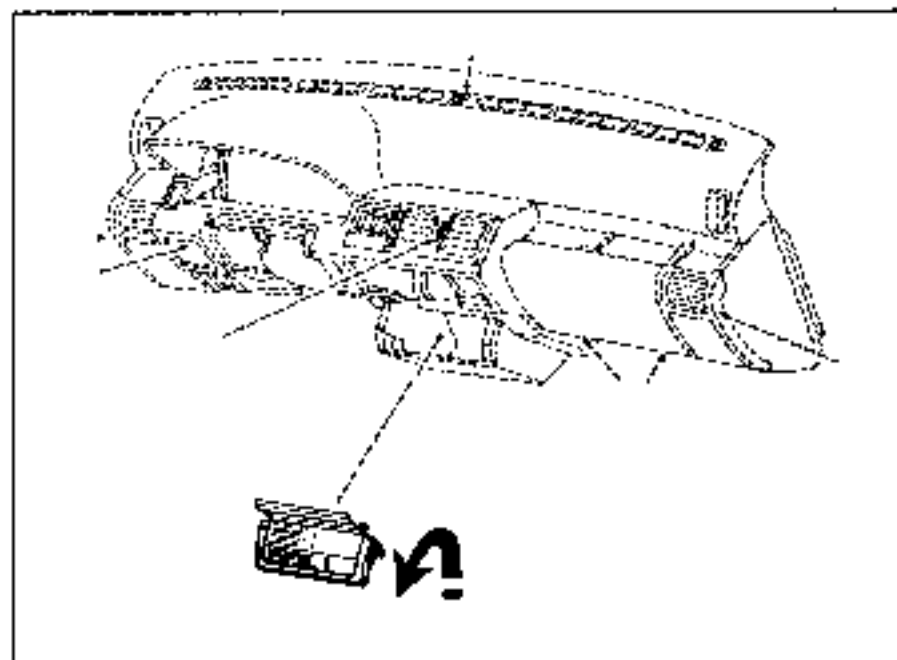


93 848

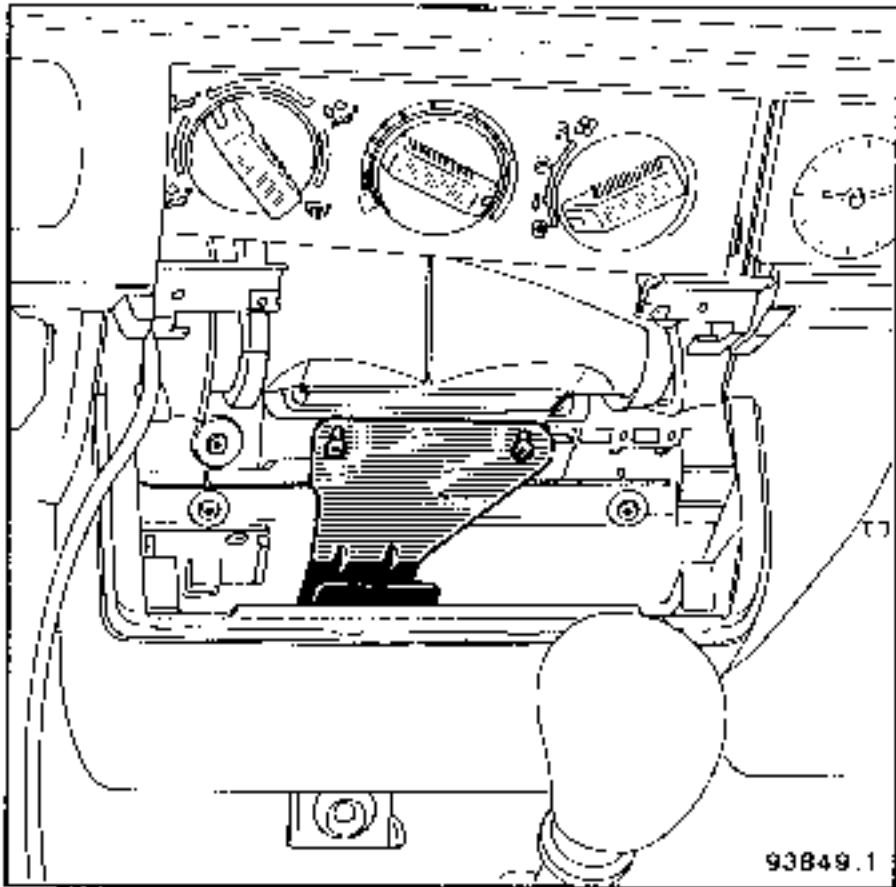
Remove the switch block.

Slacken bolt (H) and release the block.

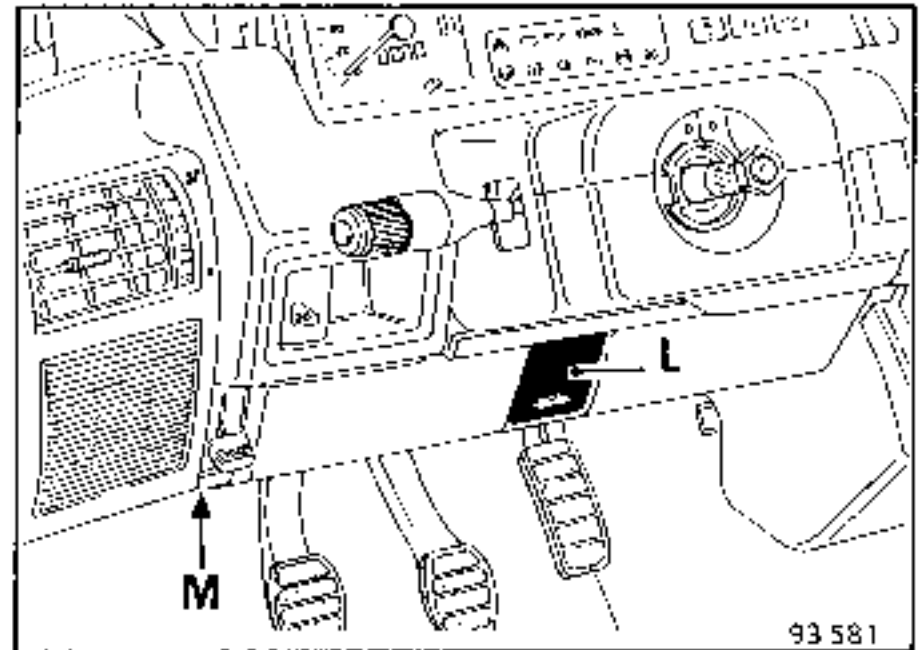
Disconnect the connectors.



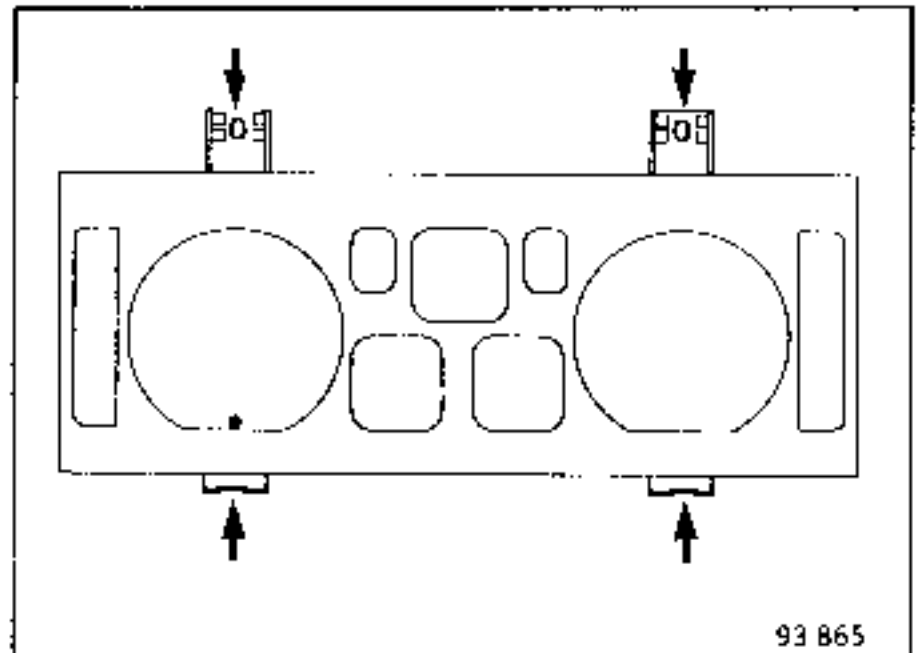
Remove the upper part of the radio console (2 screws) and tilt it backwards.



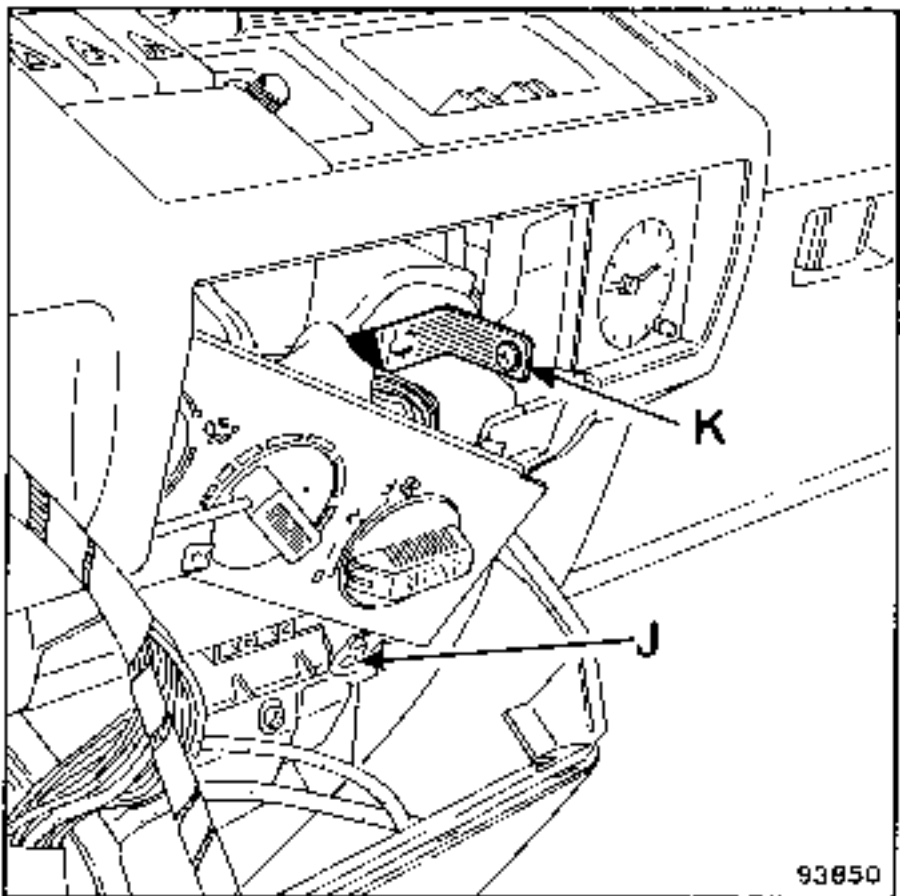
Remove the metal plate from inside the console.



Remove the bonnet release lever and choke control (M) (1 bolt).

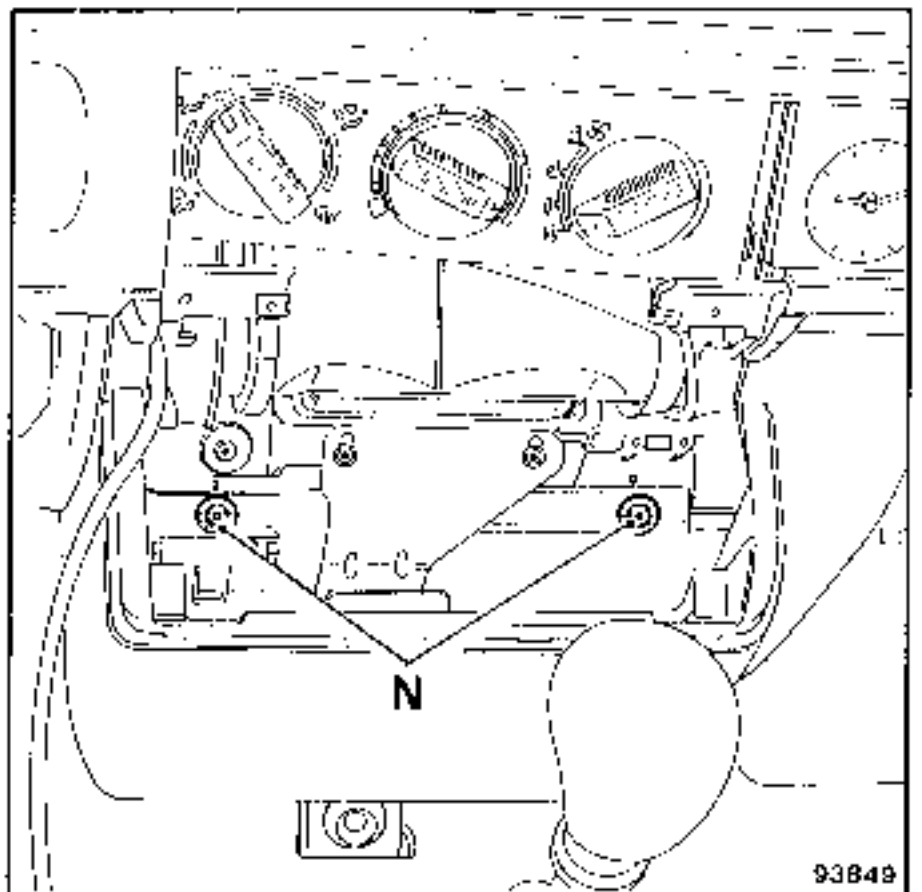


Remove the instrument panel (4 bolts).

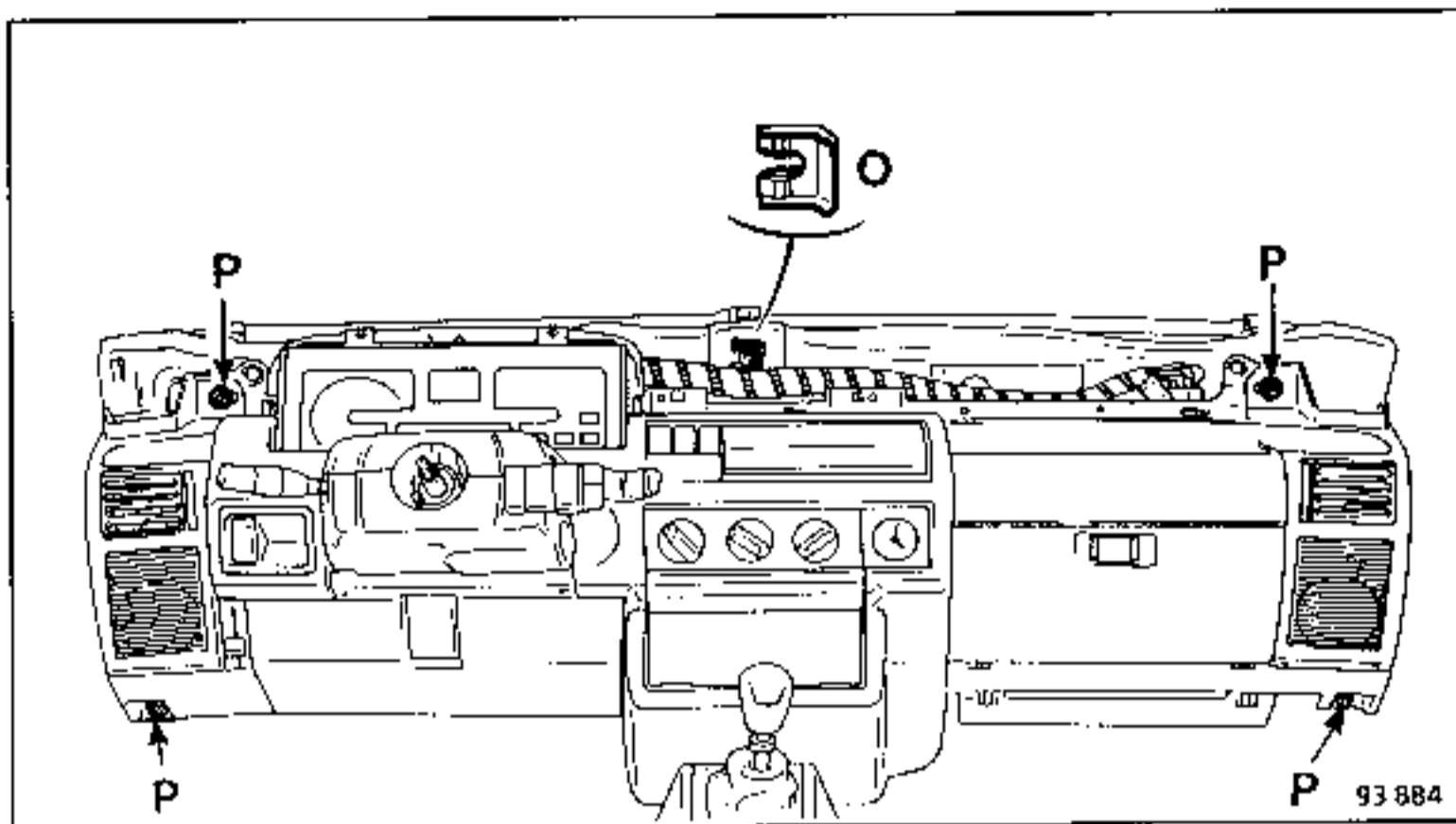


Remove the heating control unit, leaving it suspended from the blower device (2 bolts) (J).

Remove metal mounting screw (clock end) (K).



Remove the 2 heater mounting bolts (N).

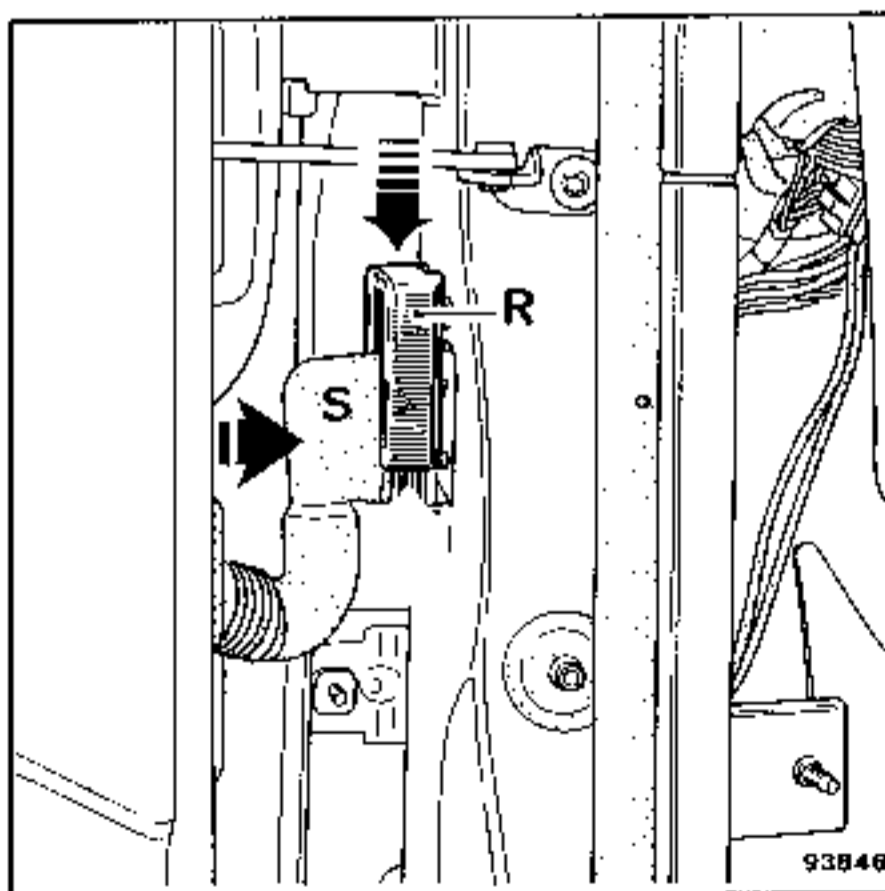


Remove plastic clip (O) and the various mountings (M).

Release the dash, moving it towards the rear of the vehicle, so that the upper connectors and those on the ignition switch can be disconnected.

NOTE:

When reassembling and connecting the door harness, after securing them using the two bolts on the front pillar:



Engage plastic clip (R) as far as it will go.

Connect connector (S) and finish clipping the clip in place.