



GROUP 55

DOORS

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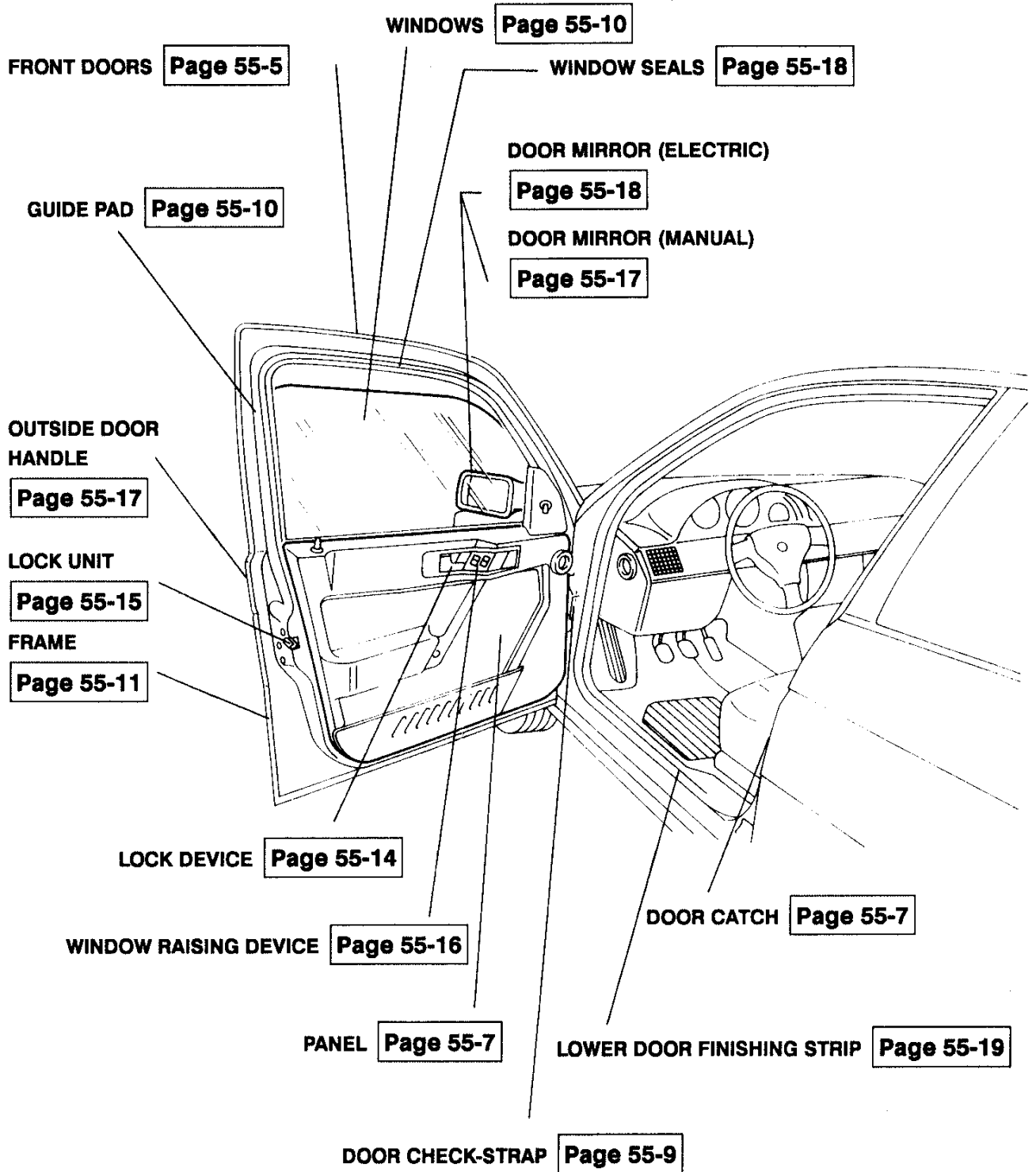
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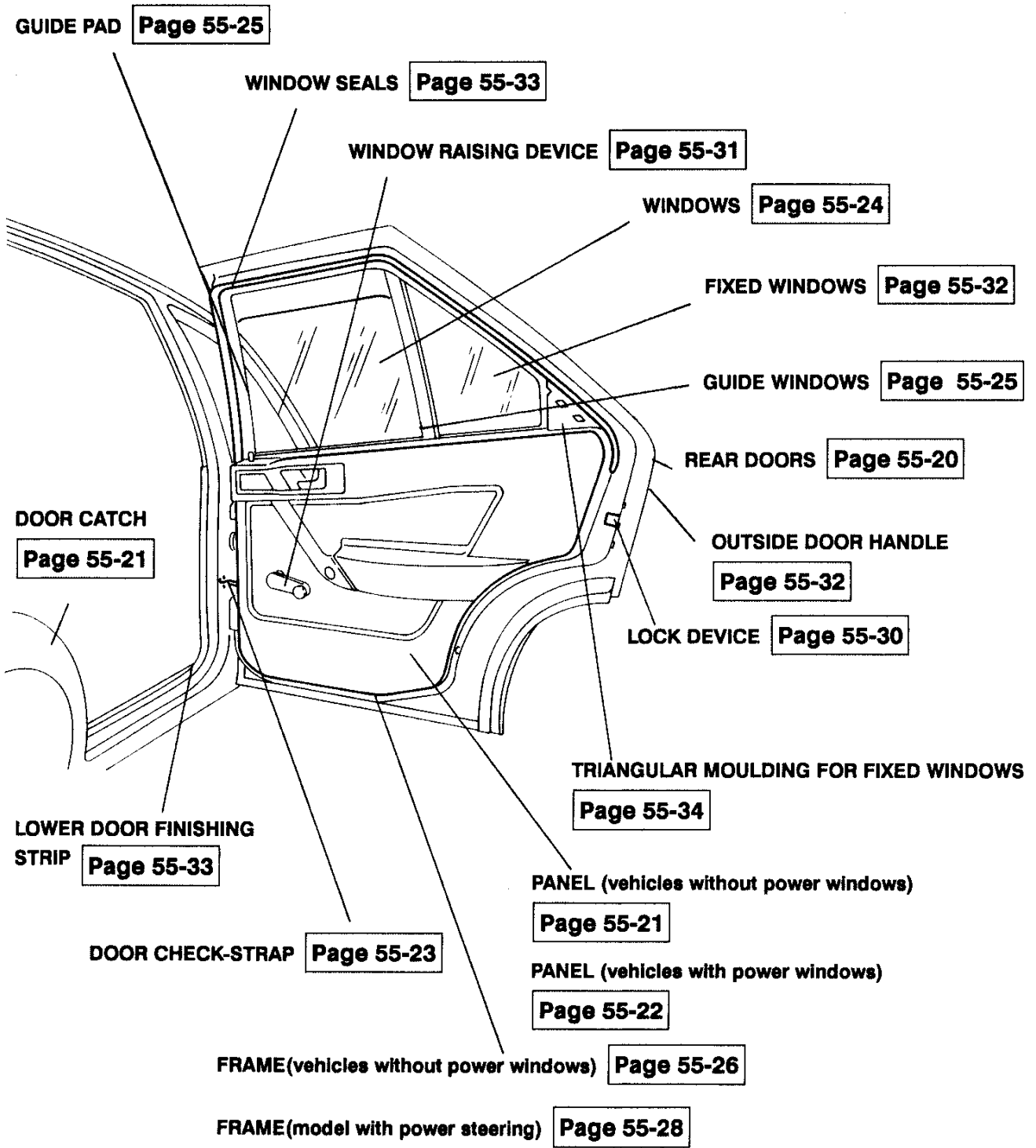


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DOORS

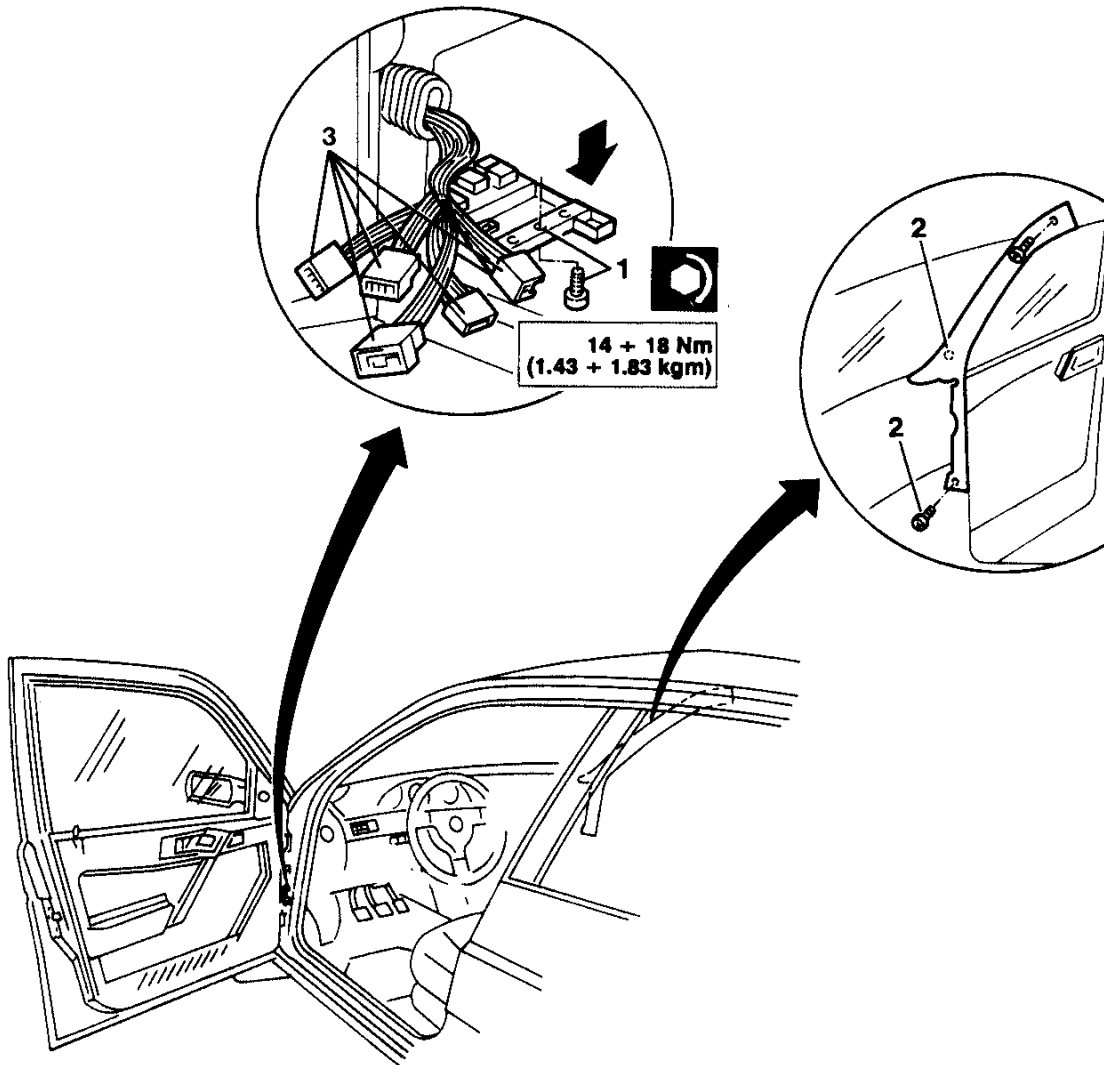
FRONT DOORS

REMOVAL AND REFITTING

NOTE: When removing (or refitting) avoid damaging the paintwork.

- Disconnect the negative (-) cable from the battery.
- If operating on the door on the driver's side, remove the trim under the dashboard (see: GR. 66 - DASHBOARD).

1. If operating on the door on the driver's side, loosen the screw securing the valve box and lower the front part.
2. If operating on the door on the passenger side, loosen the lower screw and disconnect the button securing the front pillar covering to the pillar.
3. Disconnect the power supply connectors of the door electrical services.



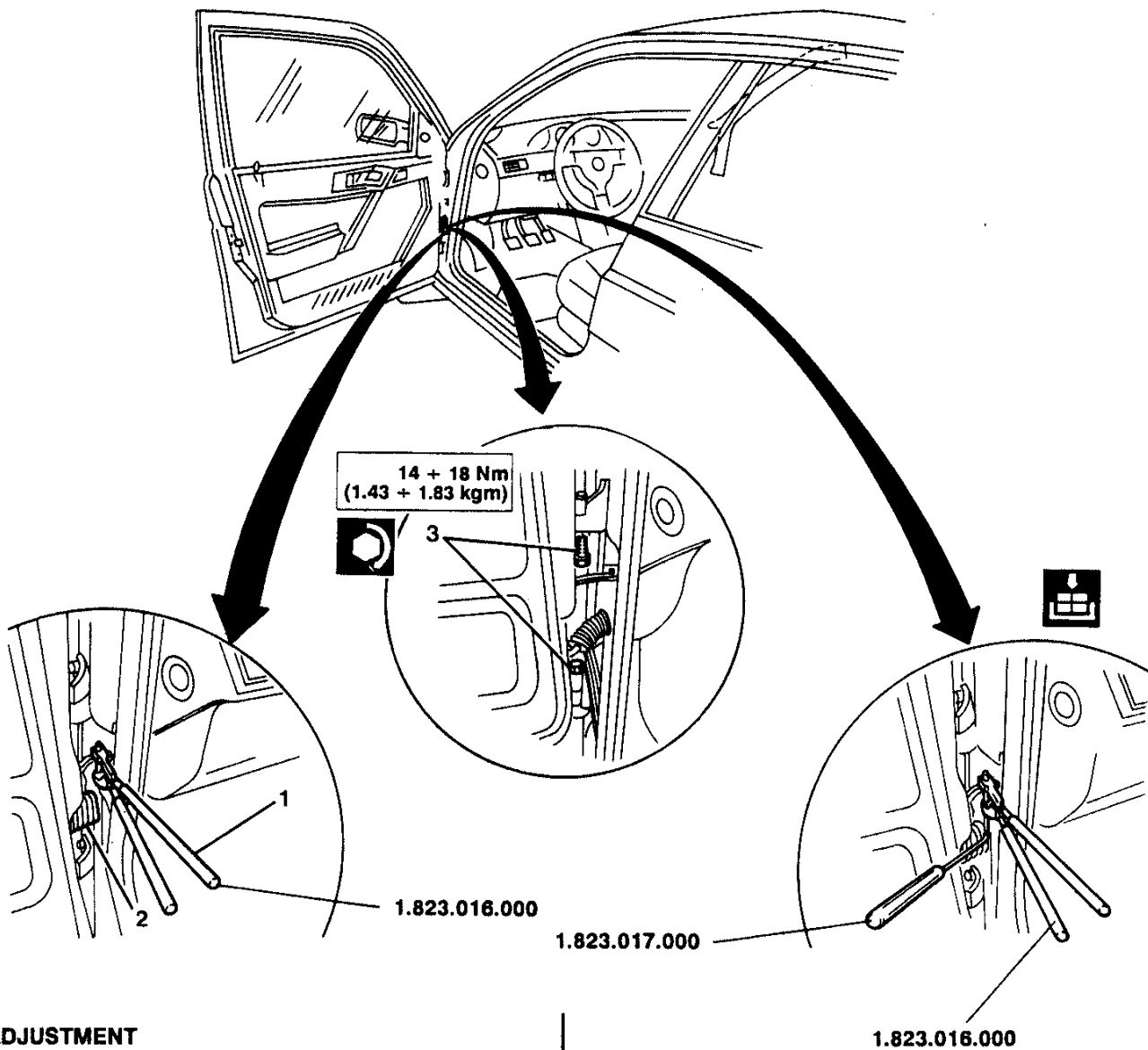


1. Using tool No. 1.823.016.000 withdraw the pin from the door check-strap, close the door slightly to allow entry of the door check-strap, and reopen the door.
2. Pull off the sleeve protecting the cables and withdraw the cables from the front door pillar.
3. Loosen the screws securing door hinges and lift the door until the tapered pins can be removed from the hinges. Remove the door.



To refit, reverse the procedure followed for removal and observe the following:

- Centre the pin of the door check-strap using tool No. 1.823.017.000 coupled with tool No. 1.823.016.000.
- Before connecting the electrical connectors, check that the electrical cables have been correctly installed in them.
- Tighten the retaining screws to the correct torque.



ADJUSTMENT

- To adjust the doors see: GR. 49 - REPLACING MOBILE COMPONENTS - FRONT DOORS.



DOOR CATCH

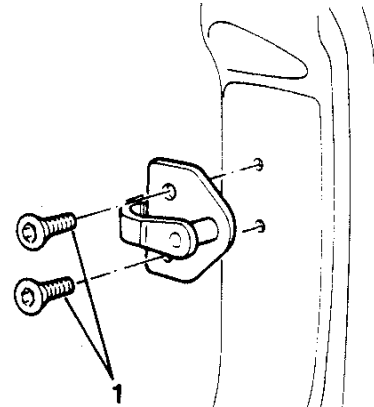
REMOVAL AND REFITTING

1. Loosen the two Allen screws and remove the catch.



To refit, reverse the procedure followed for removal and observe the following:

- Install the new catch and insert the screws without tightening them.
- Move the catch up and down until the door closes correctly.
- After adjusting the lock catch and tighten the retaining screws to the correct torque.

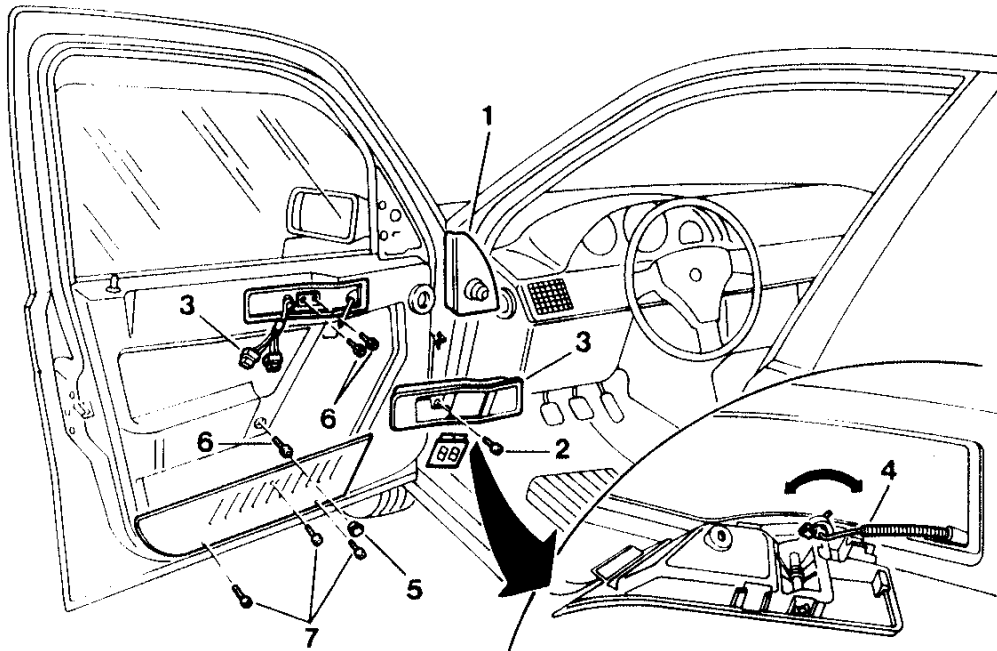


17 + 22 Nm
(1.73 + 2.24 kgm)

PANEL

REMOVAL AND REFITTING

- Disconnect the negative (-) cable from the battery.
1. Pull off the triangle protecting the door mirror control.
 2. Loosen the screw securing the door opening lever support moulding.
 3. Pull the moulding away from the panel and disconnect the connections from the power window control button.
 4. Rotate the clip of the door opening rod and disconnect the rod from the lever.
 5. Pull off the protective cap located below the handle.
 6. Loosen the two screws located in the door opening control lever compartment and the central screw securing the panel.
 7. Loosen the three lower screws of the door panel pouch.





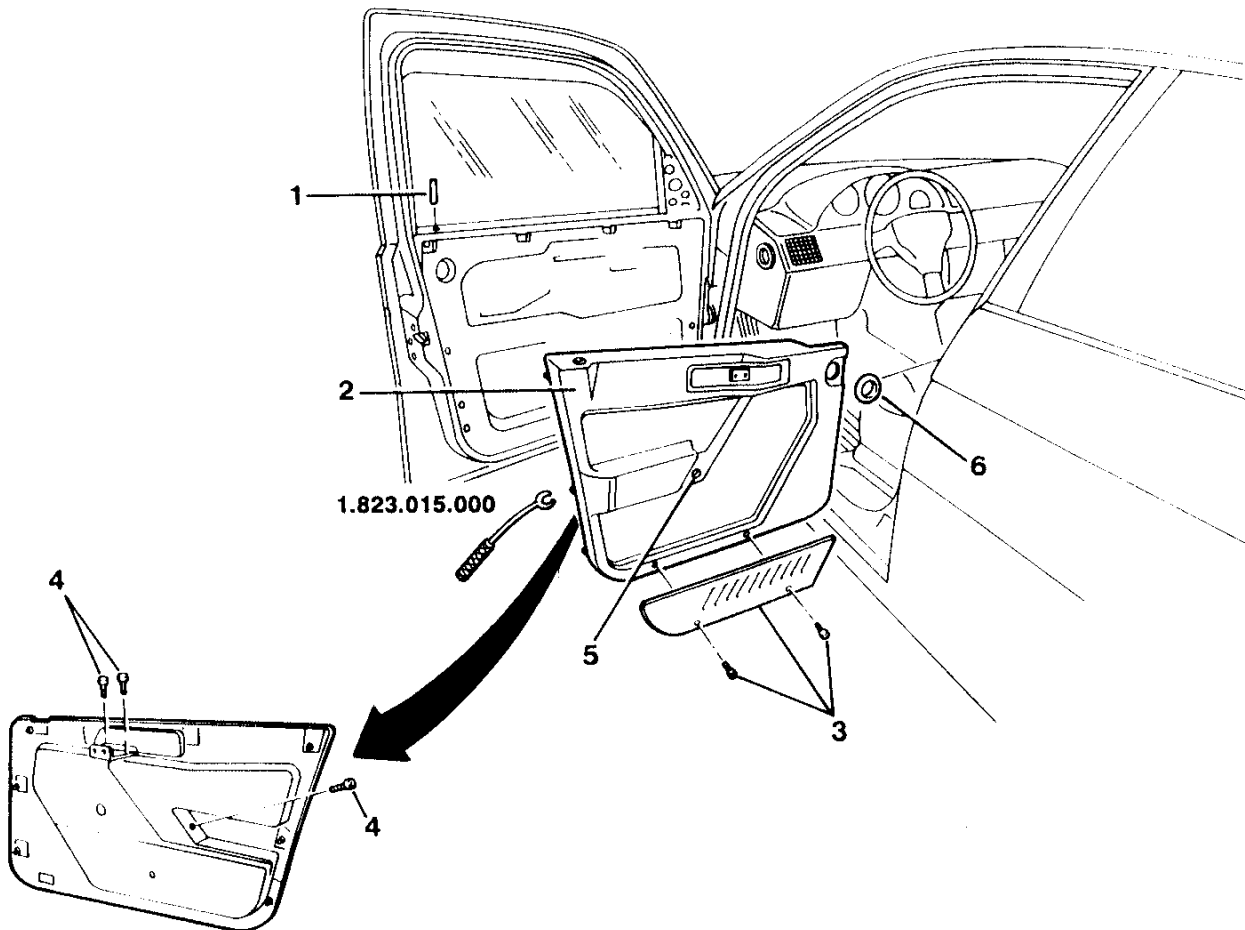
1. Loosen and remove the safety lock pin.
2. Using tool No. 1.823.015.000, pull off the eight plastic buttons securing the panel to the door and remove the panel to a bench.
3. Loosen the two screws securing the door panel pouch to the panel and remove the pouch.
4. From the inside of the panel, loosen the two upper screws and the lower screw securing the handle to the panel.
5. Remove the handle.

6. Remove the gasket from the side defroster air vent.



Refit by reversing the procedure followed for removal and observe the following:

- Before connecting the electrical connectors, check that the electrical cables have been correctly installed in them.
- Before refitting the panel check that the plastic buttons are not damaged.





DOOR CHECK-STRAP

REMOVAL AND REFITTING

NOTE: When disassembling (or reassembling) avoid damaging the paintwork.

- Disconnect the negative (-) cable from the battery.
- 1. Remove the door panel (see: PANEL).
- 2. Remove the cellophane covering by removing the buttons with tool 1.823.015.000.

NOTE: Detach the covering with care in order to avoid damaging it. Store in a dust-free environment to avoid damaging the adhesive on the edge.

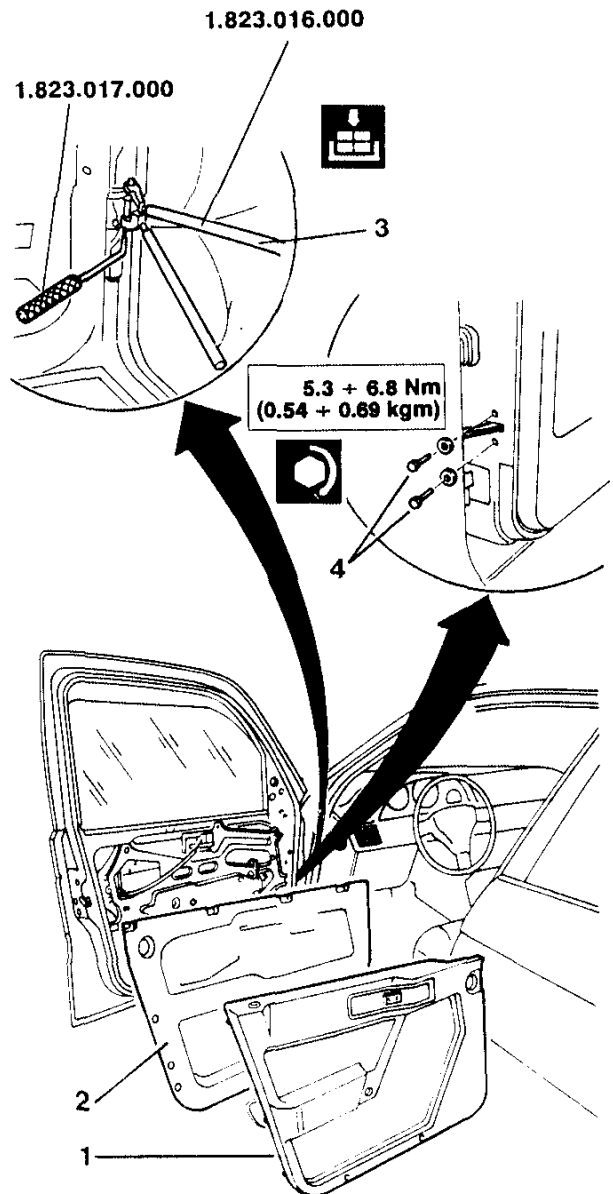
- 3. Using tool No. 1.823.016.000, withdraw the pin from the door check-strap, close the door slightly to allow entry of the door check-strap, and reopen the door.
- 4. Loosen the two bolts securing the door check-strap and remove them with their washers.
- Withdraw the door check-strap from the inside of the door.



To refit, reverse the procedure followed for removal and observe the following:

- Centre the pin of the check-strap using tool No. 1.823.017.000 coupled with tool No. 1.823.016.000.
- Before refitting the door check-strap, treat the resting surface of the strap with Type A rust-proofing (see: GR. 49 - TECHNICAL CHARACTERISTICS AND SPECIFICATIONS).
- After installing the door check-strap, treat the sides of the strap con Type A rust-proofing (see: GR. 49 - TECHNICAL CHARACTERISTICS AND SPECIFICATIONS).
- If the adhesive of the cellophane is no longer able to guarantee adhesion, replace the covering.
- Tighten the retaining screws to the correct torque.

- For the refitting of components dealt with in other pages of this or other groups refer to the relative advice and procedures (see: PANEL).





WINDOWS

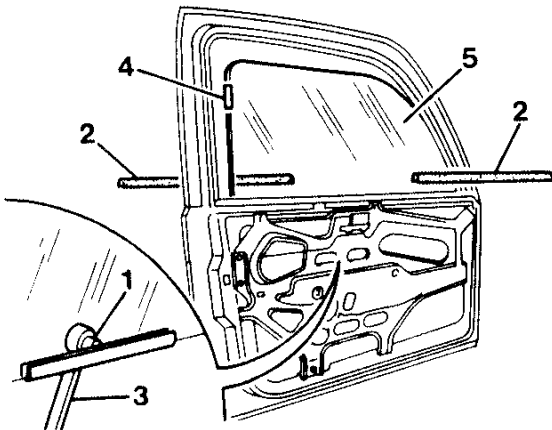
REMOVAL AND REFITTING

- Disconnect the negative (-) cable from the battery.
- Remove the door panel (see: PANEL).
- 1. Momentarily connect the battery and position the glass so that the plastic button connecting the window to the window raising device can be reached.
- 2. Remove the inner and outer glass guides.
- 3. Using a number 11 fixed box spanner act on the tabs of the button and pull the glass off the pin.
- 4. Lower the glass so that the the pad of the rear guide can be disconnected.
- 5. Pull the glass upwards and rotate it so that it can be removed.



To refit, reverse the procedure followed for removal and observe the following:

- For the refitting of components dealt with in other pages of this or other groups refer to the relative advice and procedures. (see: PANEL).

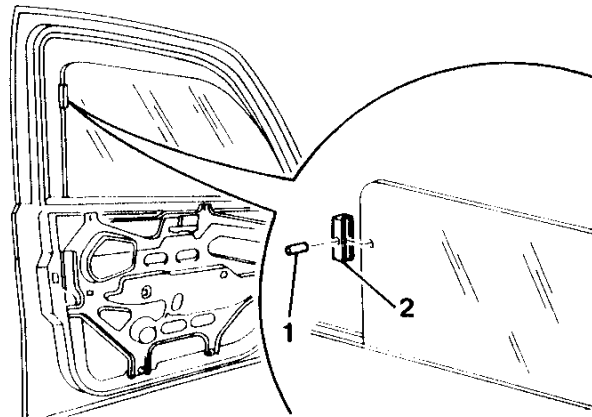


GUIDE PAD

REMOVAL AND REFITTING

NOTE: The guide pad should only be replaced if it is broken.

- Wind the window half way down.
- Withdraw the door pillar seal.
- 1. Using a punch withdraw the pin.
- 2. Remove the pad.



To refit, reverse the procedure followed for removal and observe the following:

- Position the new pad.
- Fix the pad to the glass using the same pin.
- Refit the glass in the door pillar seal.



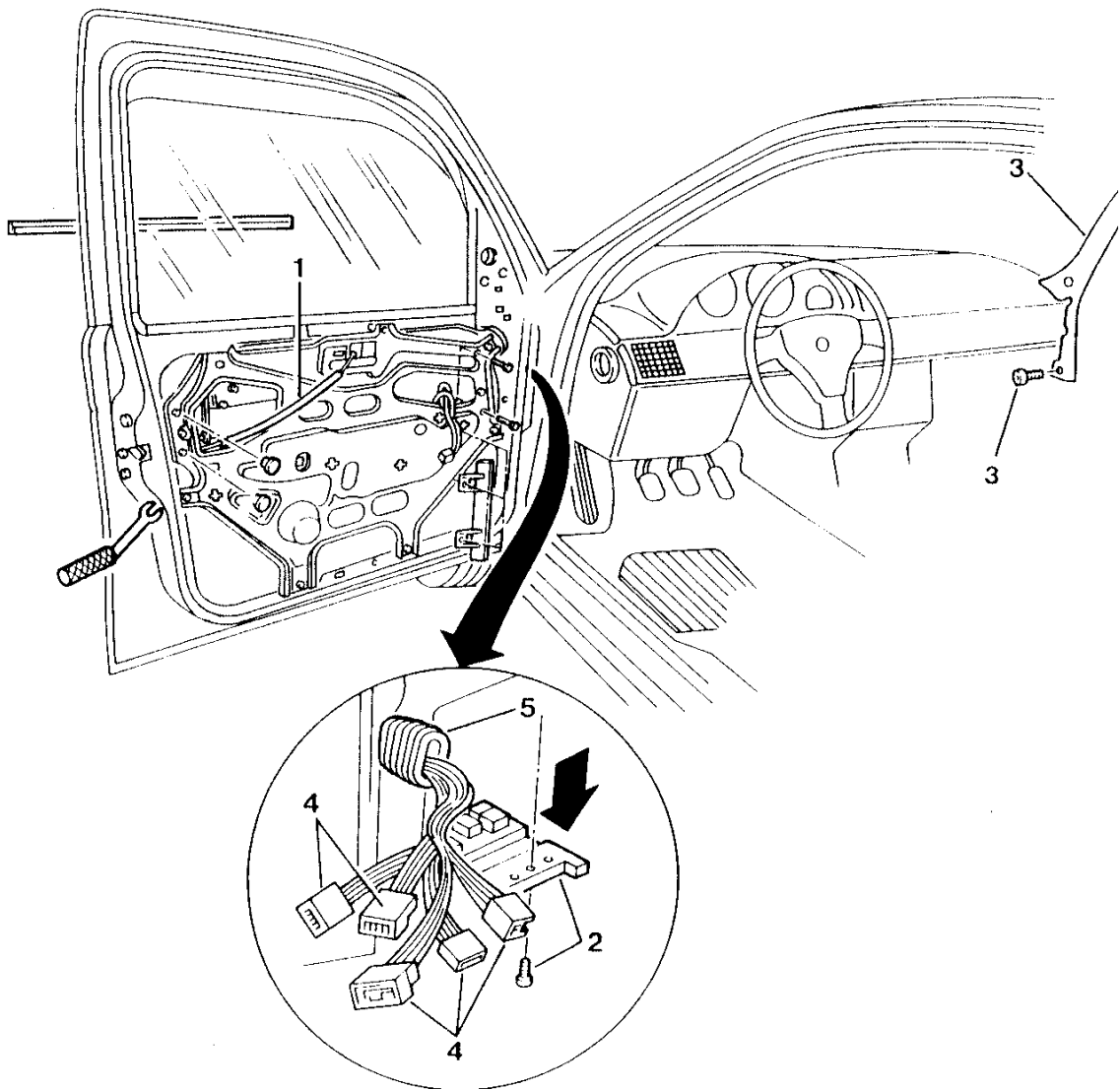
FRAME

REMOVAL AND REFITTING

NOTE: When disassembling (or reassembling) avoid damaging the paintwork.

- Disconnect the negative (-) cable from the battery.
- Remove the door panel (see: PANEL) and the cellophane.
- Remove the door window (see: WINDOWS).
- 1. Cut the clamp securing the door opening cable to the frame.

2. If operating from the driver's side, remove the trim under the dashboard, loosen the screw securing the valve box and lower it (see: GR. 66 - DASHBOARD).
 3. If operating from the passenger side, loosen the lower screw and detach the plastic button securing the front pillar covering.
 4. Disconnect the door services power supply wiring.
 5. Pull off the corrugated rubber hose and withdraw the wiring from the opening on the front pillar.
- If the vehicle is equipped with electric door mirrors, withdraw the relative wiring from the corrugated hose.



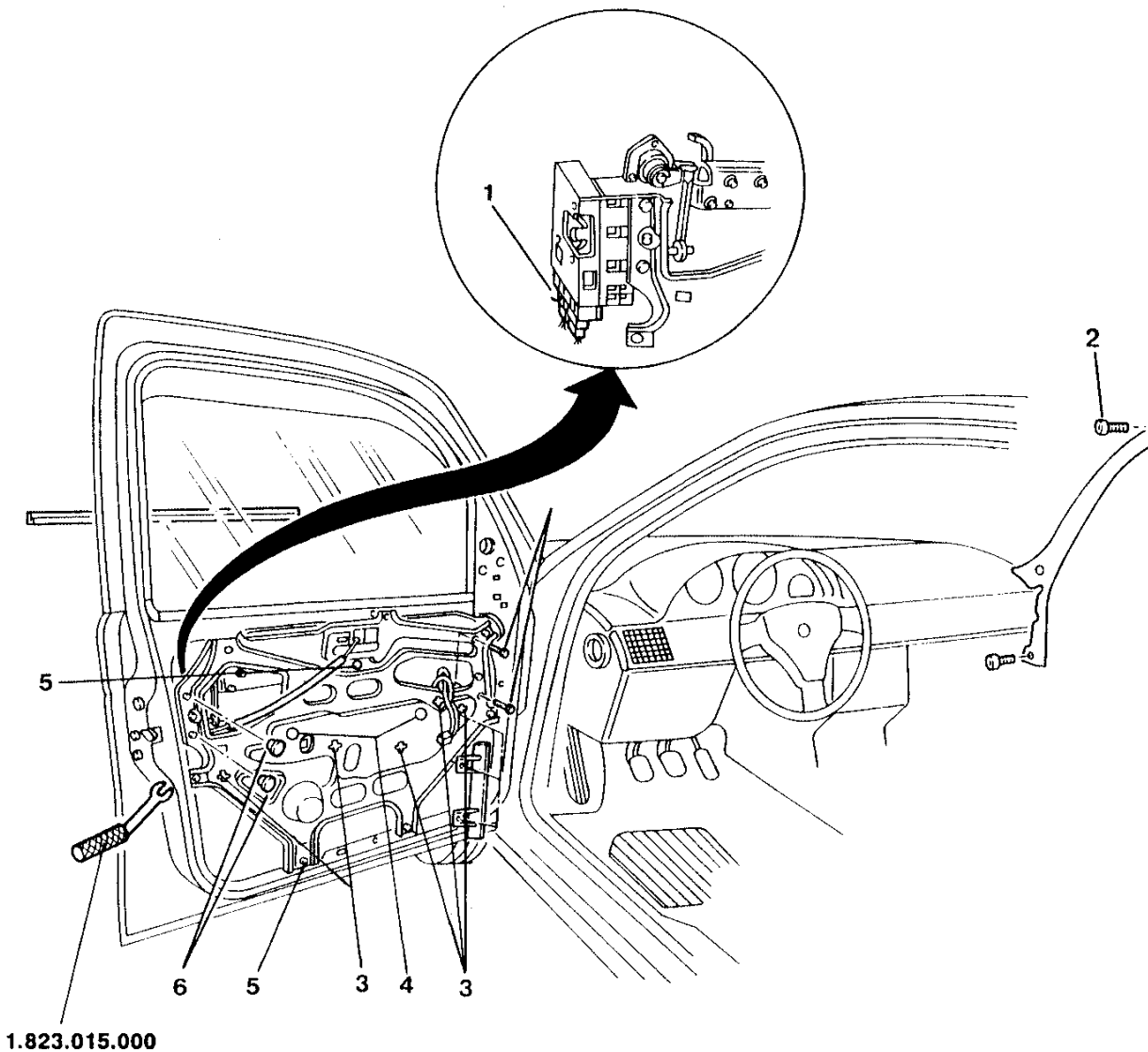


1. Disconnect the automatic door closure connectors and of those of the lock check.
2. Loosen the two screws securing the front window guide and remove it.

NOTE: Even if the power window motor is not working the windows can still be raised and lowered. Only if it is not possible to reach the button fixing the window raising device to the window is it necessary to proceed as indicated at points 3. to 5.

3. Disconnect the five clips securing the wiring to the frame.
4. Disconnect the two clips securing the window raising device to the frame.
5. Loosen the two screws securing the window raising device to the frame.
6. Using tool No. 1.823.015.000 disconnect the two plastic buttons securing the frame to the lock device.

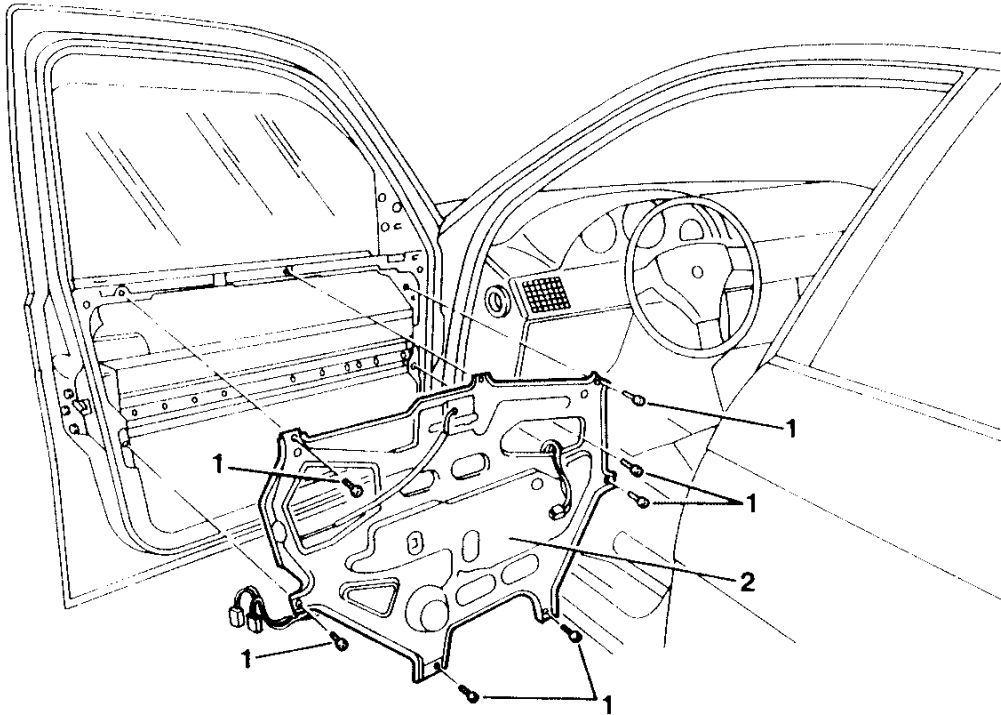
NOTE: Place adhesive tape around the operating area in order to avoid damaging the paintwork.





1. Loosen the seven screws securing the frame to the door.

2. Remove the frame and separate it from the window raising device.



To refit, reverse the procedure followed for removal and observe the following:

- Before connecting the electrical connectors, check that the electrical cables have been correctly installed in them.
- Check the alignment of the frame and the operating torque of the window raising device.
- After refitting the front guide, momentarily connect the battery and raise the window pushing it evenly against the rear seal/guide.

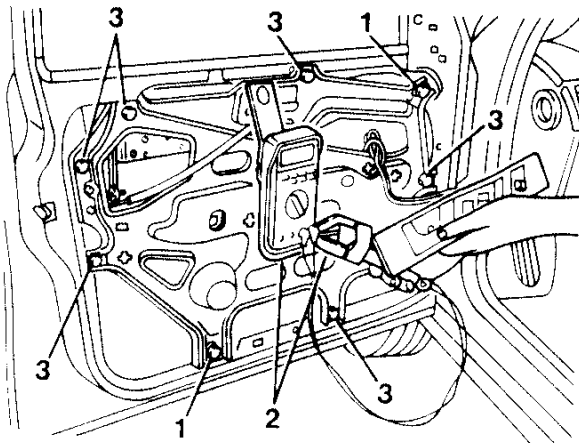
- Before continuing the refitting operation check the operation of the window raising device and ensure that the glass moves smoothly.
- For the refitting of components dealt with in other pages of this or other groups refer to the relative advice and procedures (see: PANEL; WINDOWS).

**CHECKING FRAME ALIGNMENT**

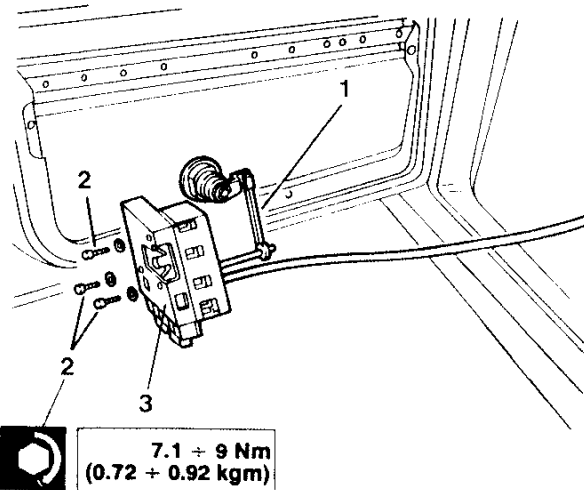
1. Install the frame on the door, complete with window raising device and fix it temporarily with the two nuts as shown.
2. Check the torque necessary for the operation of the window by connecting the clip of an ammeter to the wiring of the power window motor. Check that the intensity of current does not exceed 8 A and that the time necessary to raise the window does not exceed six/seven seconds.

If there is excessive resistance (high power absorption, or raising times too long) check the alignment between window and guide and move the frame as necessary. Check that the seals are intact and correctly positioned and check the adjustment of the frame until the correct current value is obtained.

3. Fix the frame to the door and tighten the seven screws.

**LOCK DEVICE****REMOVAL AND REFITTING**

- Disconnect the negative (-) cable from the battery.
 - Remove the door panel (see: PANEL) and detach the cellophane.
 - Remove the door frame (see: FRAME).
1. Disconnect the lock unit rod from the lock device.
 2. Loosen the three screws securing the lock device to the door and remove them along with their washers.
 3. Remove the lock device and rod.



To refit, reverse the procedure followed for removal and observe the following:

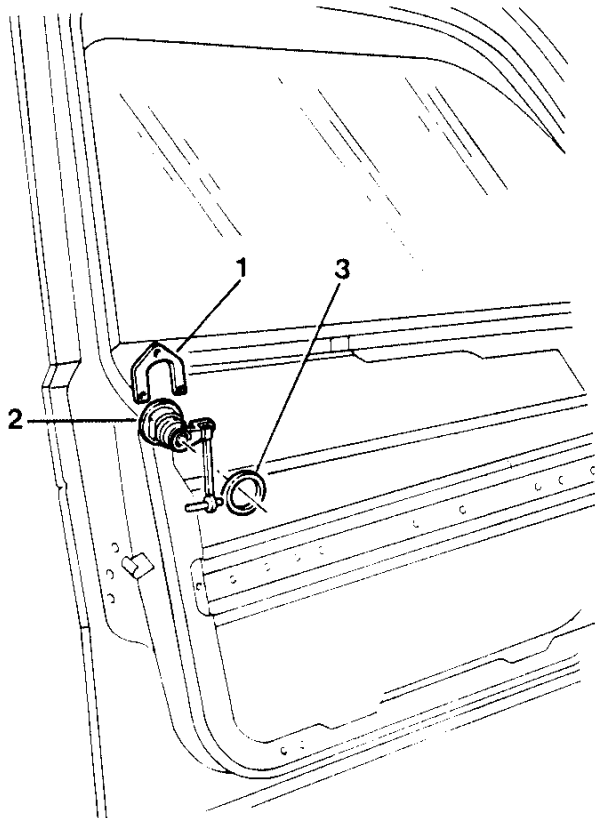
- Before connecting the electrical connectors, check that the electrical cables have been correctly installed in them.
- For the refitting of components dealt with in other pages of this or other groups, refer to the relevant procedures and advice (see: PANEL; FRAME).
- After refitting, if necessary, adjust the lock device catch on the door pillar (see: DOOR CATCH).
- Tighten the retaining screws to the correct torque.



LOCK UNIT

REMOVAL AND REFITTING

- Disconnect the negative (-) cable from the battery.
 - Remove the door panel (see: PANEL).
 - Remove the door frame (see: FRAME).
 - Remove the lock device (see: LOCK DEVICE).
1. Using a screwdriver as a lever withdraw the clip securing the lock unit.
 2. Remove the lock unit from the outside.
 3. Remove the the ring-nut from the clip from the inside.



To refit, reverse the procedure followed for removal and observe the following:

- When refitting hold the unit in position using adhesive tape on the outside of the vehicle.
- For the refitting of components dealt with in other pages of this or other groups, refer to the relevant procedures and advice (see: PANEL; FRAME; LOCK DEVICE).



WINDOW RAISING DEVICE

REMOVAL AND REFITTING

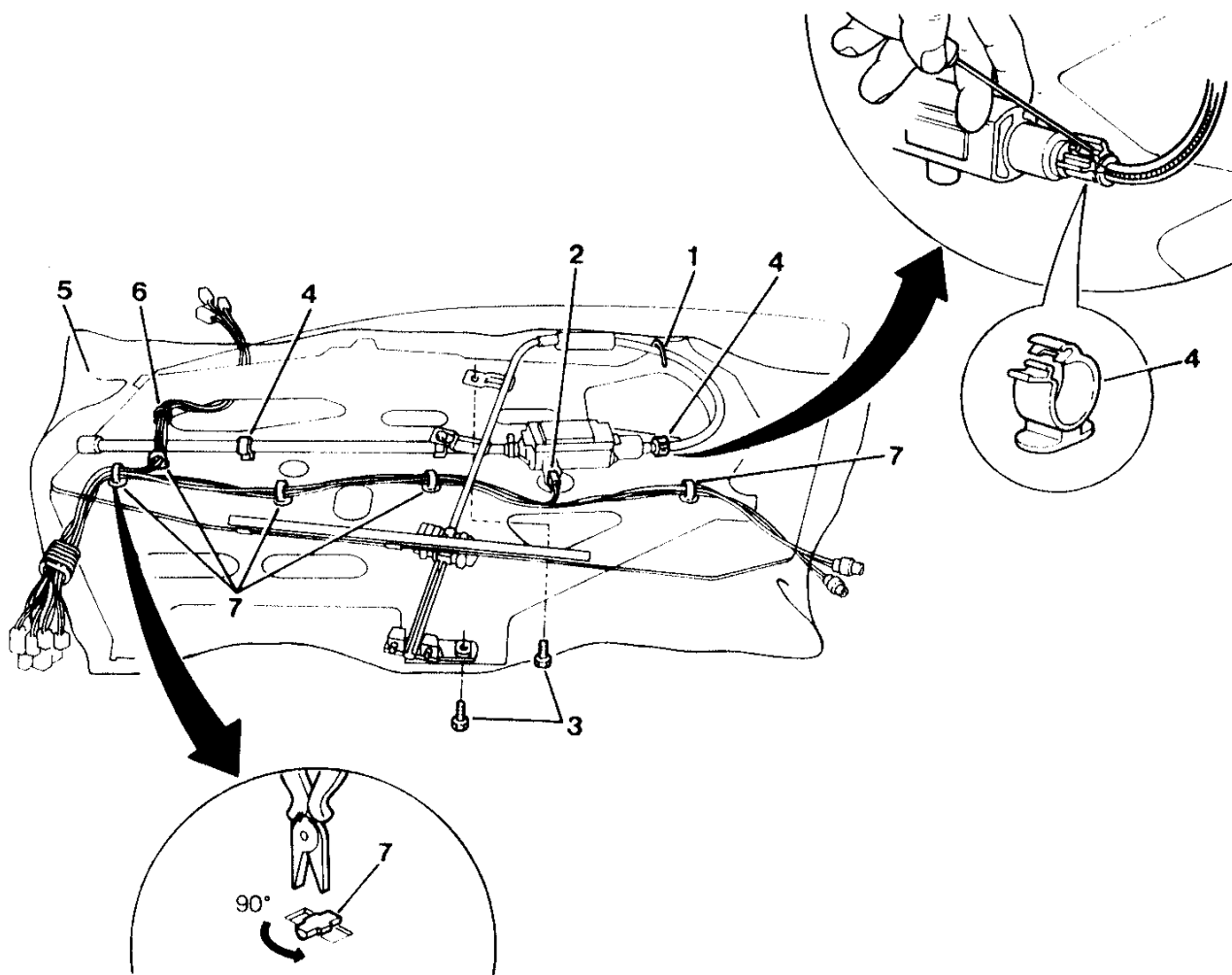
- Disconnect the negative (-) cable from the battery.
 - Remove the door panel (see: PANEL).
 - Remove the door frame (see: FRAME) and place on a bench.
1. Cut the clamp connecting the window raising device to the frame.
 2. Disconnect the window raising motor power supply connector.
 3. Loosen the two screws securing the window raising device to the frame.
 4. Using a screwdriver disconnect the two supports and separate the window raising device from the frame.

5. Remove the cellophane covering.
6. Cut the clamp securing the wiring to the frame.
7. Disconnect the five attachments securing the wiring to the door frame by rotating them 90°.



To refit, reverse the procedure followed for removal and observe the following:

- Before connecting the electrical connectors, check that the electrical cables have been correctly installed in them.
- For the refitting of components dealt with in other pages of this or other groups refer to the relative advice and procedures (see: PANEL, FRAME).



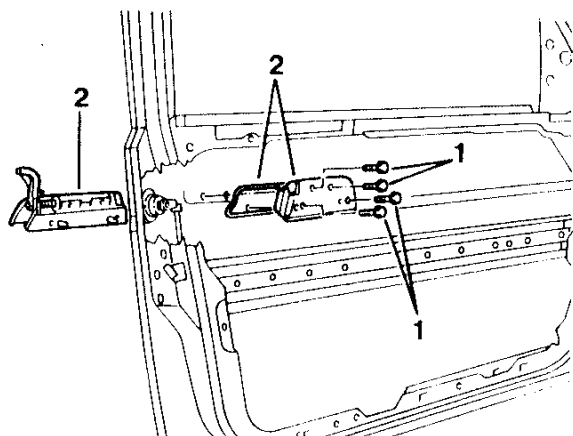


OUTSIDE DOOR HANDLE

REMOVAL AND REFITTING

NOTE: When disassembling (or reassembling) avoid damaging the paintwork.

- Cover the areas surrounding the door handles with adhesive tape to avoid damaging the door.
 - Disconnect the negative (-) cable from the battery.
 - Remove the door panel (see: PANEL) and the cellophane.
1. Loosen the four screws securing the handle.
 2. From the inside, remove the covering and gasket and from the outside remove the handle.



To refit, reverse the procedure followed for removal and observe the following:

- Before finally locking the handle, adjust the position as described below.
- For the refitting of components dealt with in other pages of this or other groups, refer to the relevant procedures and advice (see: PANEL).

ADJUSTMENT

- After refitting the handle and before locking it to its final position check that:
 - the handle can be raised easily
 - the upper edge of the handle does not knock against its housing.
- Lock the handle in its final position.
- Check the operation of the handle once again.

DOOR MIRROR (MANUAL)

REMOVAL AND REFITTING

NOTE: When removing (or refitting) avoid damaging the paintwork.

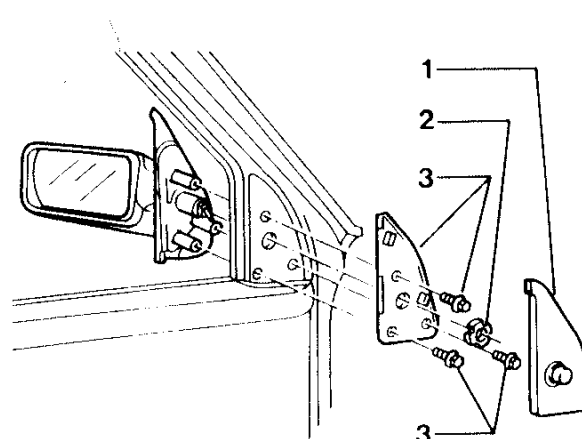
1. Pull off the moulding and the rubber bellows covering the manual control.
2. Loosen the ring nut.
3. Loosen the three screws securing the door mirror and remove it together with the plate from inside the vehicle.



Refit by reversing the procedure followed for removal and observe the following.



To refit, reverse the procedure followed for removal.



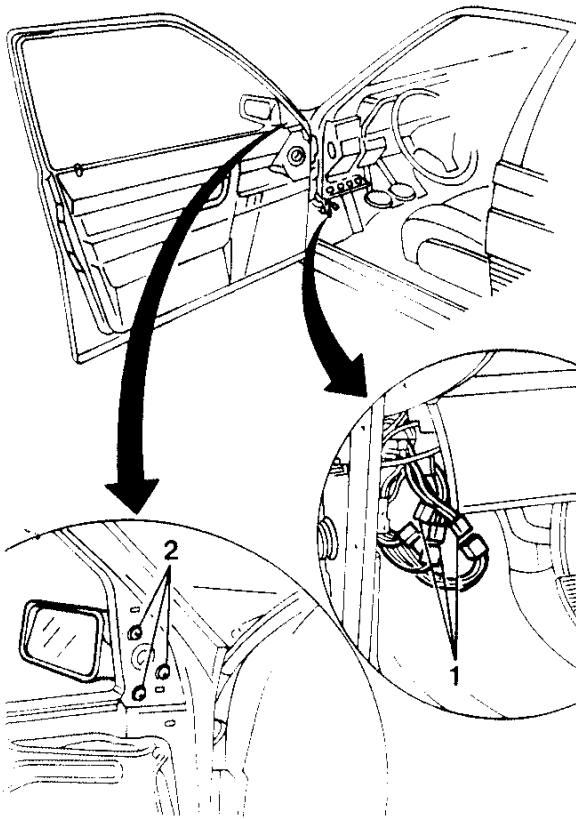


DOOR MIRROR (ELECTRIC)

REMOVAL AND REFITTING

NOTE: When removing (or refitting) avoid damaging the paintwork.

- Disconnect the negative (-) cable from the battery.
- Remove the door panel (see: PANEL) and remove the cellophane from one side.
- 1. Working from inside the vehicle disconnect the connectors from the devices installed in the mirror (direction, heating, temperature sensor for models equipped with air conditioning).
- Withdraw the cables from the mirror devices acting from inside the door frame.
- 2. Loosen the three screws and remove the mirror.



To refit, reverse the procedure followed for removal and observe the following:

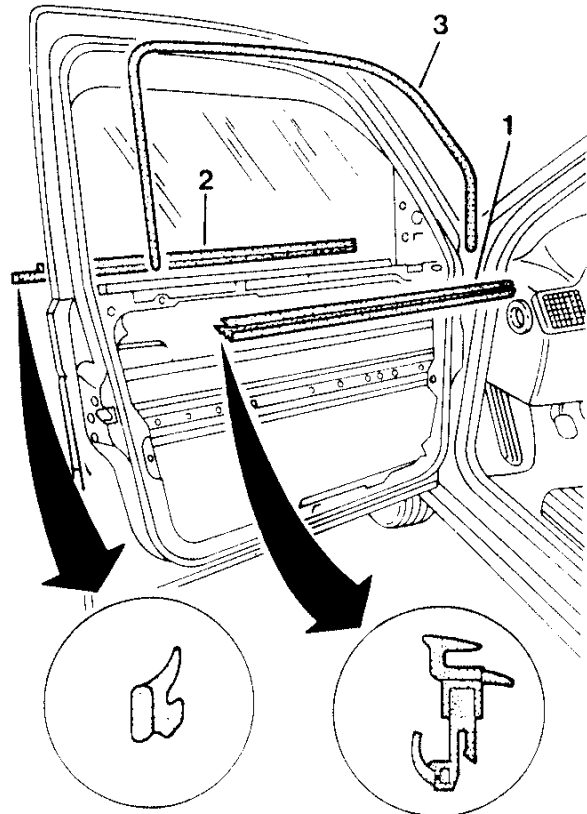
- Before connecting the electrical connectors, check that the electrical cables have been correctly installed in them.

- For the refitting of components dealt with in other pages of this or other groups, refer to the relevant procedures and advice (see: PANEL).

WINDOW SEALS

REMOVAL AND REFITTING

- Lower the door window.
- Disconnect the negative (-) cable from the battery.
- Remove the door panel (see: PANEL).
- Remove the door window (see: WINDOWS).
- 1. Remove the inner window seal.
- 2. Remove the outer window seal.
- 3. Loosen the door mirror attachment.
- 4. Withdraw and remove the surrounding velvet strip.



To refit, reverse the procedure followed for removal and observe the following:

- For the refitting of components dealt with in other pages of this or other groups, refer to the relevant procedures and advice (see: WINDOWS; PANEL).



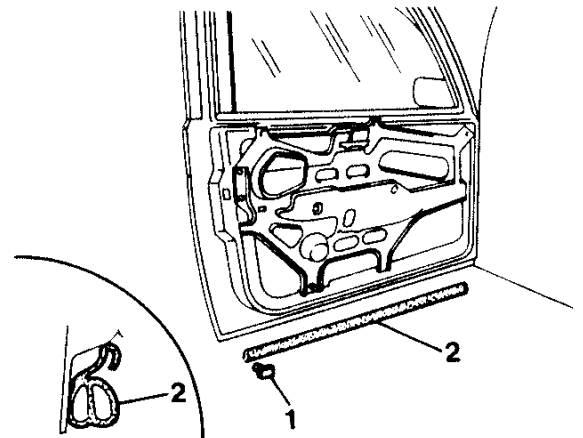
LOWER DOOR FINISHING STRIP

REMOVAL AND REFITTING

1. Using tool 1.823.015.000 disconnect the seven buttons securing the lower strip to the door.
2. Remove the strip.



To refit, reverse the procedure followed for removal.





REAR DOORS

REMOVAL AND REFITTING

NOTE: When removing (or refitting) avoid damaging the paintwork.

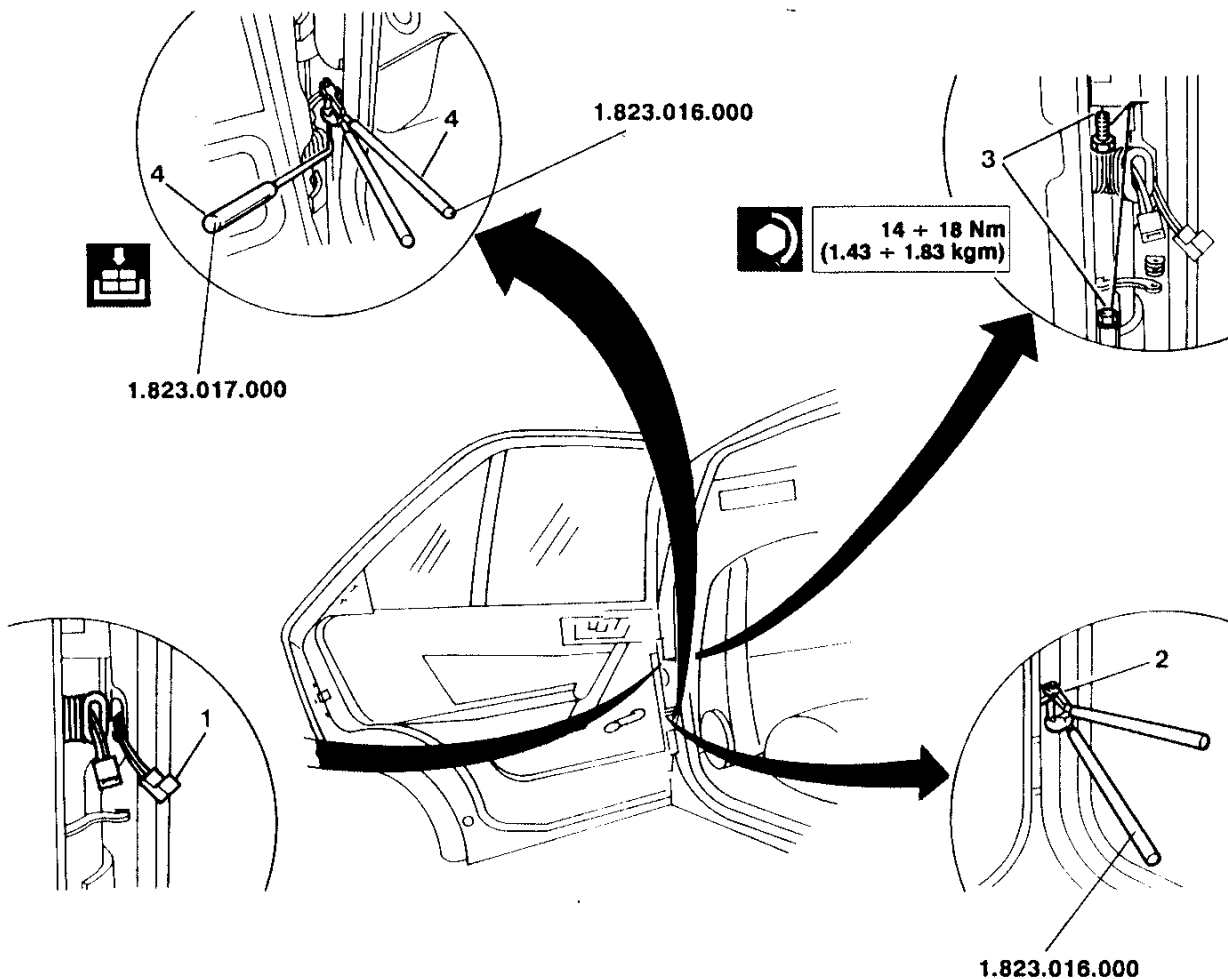
- Disconnect the negative (-) cable from the battery.
- 1. Pull off the sleeve protecting the cables, withdraw the electric cables from the front door pillar and disconnect the power supply connector of the electrical door services.
- 2. Using tool No. 1.823.016.000 withdraw the pin from door check-strap, close the door slightly to allow entry of the door check- strap, and reopen the door.

3. Loosen the screws securing door hinges and raise the door until the tapered pins can be removed from the hinges. Remove the door.



To refit, reverse the procedure followed for removal and observe the following:

- Centre the pin of the check-strap using tool No. 1.823.017.000 coupled with tool No. 1.823.016.000.
- Before connecting the electrical connectors, check that the electrical cables have been correctly installed in them.
- Tighten the retaining screws to the correct torque.



ADJUSTMENT

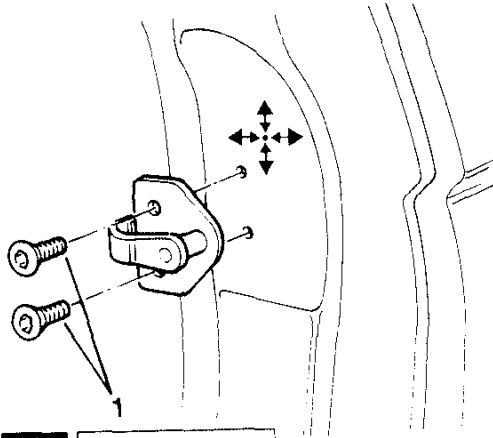
- For door adjustment see: GR. 49 - REPLACING MOBILE PARTS - REAR DOORS.




DOOR CATCH

REMOVAL AND REFITTING

1. Loosen the two Allen screws and remove the catch.



 17 + 22 Nm
(1.73 + 2.24 kgm)



To refit, reverse the procedure followed for removal and observe the following:

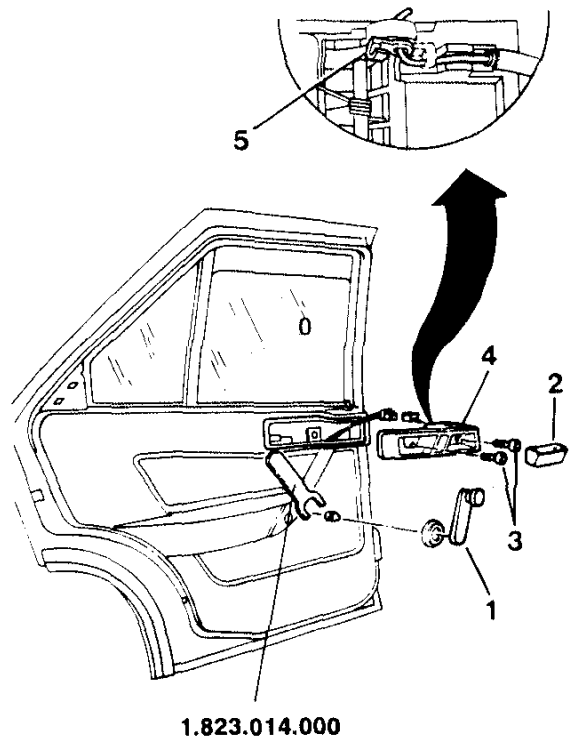
- Install the new catch by inserting but not tightening the screws.
- Move the catch up and down until the door closes correctly.
- After adjustment lock the catch and tighten the retaining screws to the correct torque.

PANEL

(vehicles without power windows)

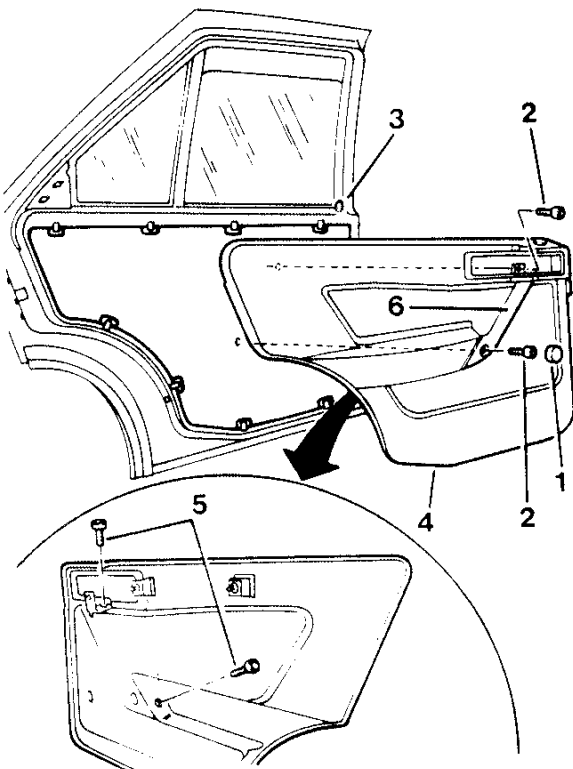
REMOVAL AND REFITTING

- Disconnect the negative (-) cable from the battery.
1. Remove the handle from the window raising mechanism by pulling off the safety clip using tool No. 1.823.014.000.
 2. Remove the ashtray from the seating on the door opening control lever support moulding.
 3. Loosen the two screws securing the door opening control lever support moulding to the frame.
 4. Detach the moulding from the panel and disconnect the connector from the ashtray light.
 5. Rotate the clip on the door opening rod and disconnect the rod from the lever.





1. Pull off the the protective cap located below the handle.
2. Loosen the screw located door opening control lever and compartment and the central screw securing the panel.
3. Loosen and remove the the cover from the safety lock pin.
4. Using tool No. 1.823.015.000, pull off the nine plastic buttons securing the panel to the door, remove the panel and take to a bench.
5. From the inside loosen the upper screw and the lower screw securing the handle to the panel.
6. Remove the handle.



To refit, reverse the procedure followed for removal and observe the following:

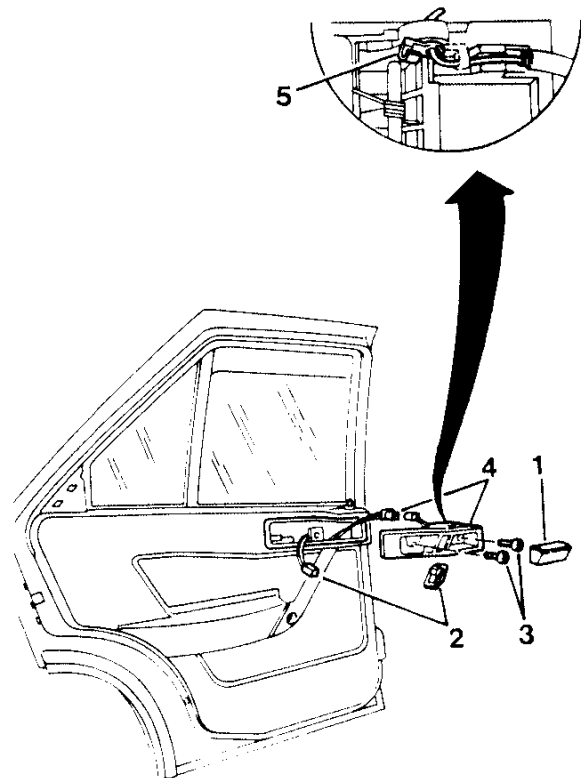
- Before connecting the electrical connectors, check that the electrical cables have been correctly installed in them.
- Before refitting the panel, check that the buttons are not damaged.

PANEL

(vehicles with power windows)

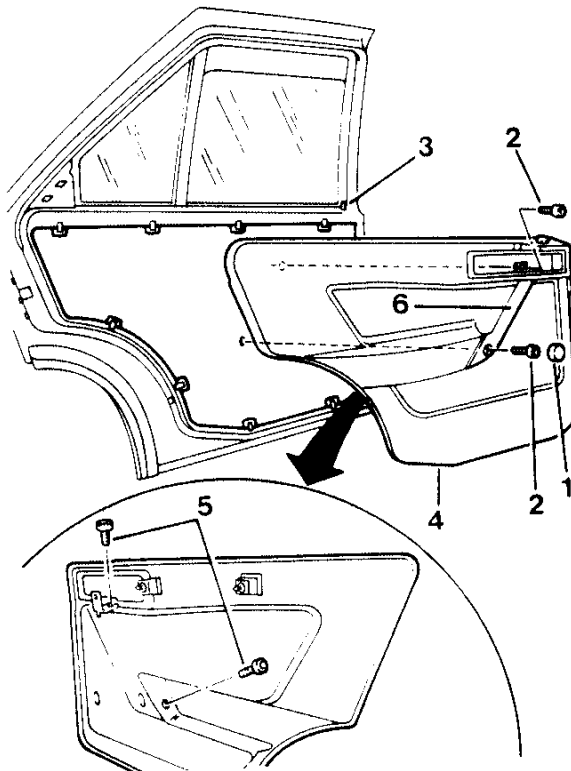
REMOVAL AND REFITTING

- Disconnect the negative (-) cable from the battery.
1. Remove the ashtray from its seating in the door opening control lever support moulding.
 2. Pull off the window raising control button moulding and disconnect the connector.
 3. Loosen the two screws securing the door opening control lever support moulding to the frame.
 4. Detach the moulding from the panel and disconnect the connector from the ashtray light.
 5. Rotate the clip of the door opening rod and disconnect the rod from the lever.





1. Pull off the cap located below the handle.
2. Loosen the two screws located in the door opening control lever compartment and the central screw securing the panel.
3. Loosen and remove the cap covering the safety lock control rod.
4. Using tool No. 1.823.015.000, pull off the nine plastic buttons securing the panel to the door, remove the panel and take to a bench.
5. From the inner side of the panel loosen the upper screw and the lower screw securing the handle to the panel.
6. Remove the handle.



To refit, reverse the procedure followed for removal and observe the following:

- Before connecting the electrical connectors, check that the electrical cables have been correctly installed in them.
- Before refitting the lower panel, check that the buttons are not damaged.

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DOOR CHECK-STRAP

REMOVAL AND REFITTING

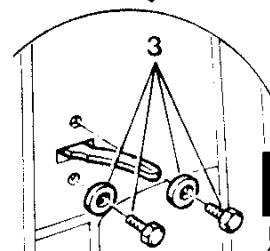
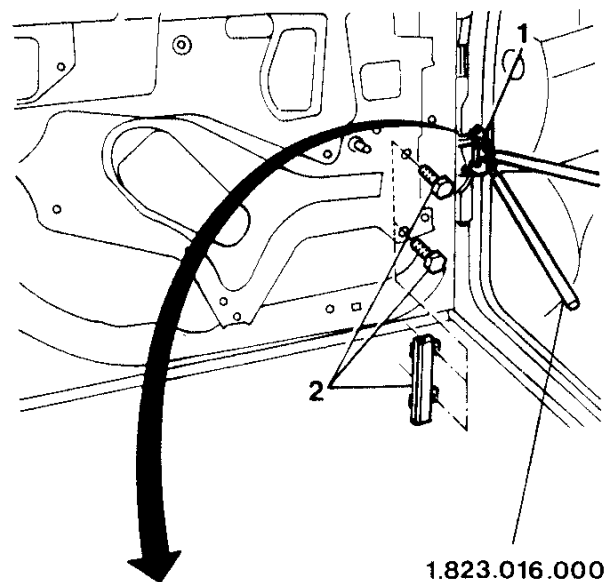
NOTE: When disassembling (or reassembling) avoid damaging the paintwork.

Work with the window wound up.

- Disconnect the negative (-) cable from the battery.
- Remove the door panel (see: PANEL).
- Remove the cellophane covering.

NOTE: Carefully detach the covering and avoid damaging it. Store in a dust-free environment to avoid damaging the adhesive spread on the edge.

1. Using tool No. 1.823.016.000, withdraw the pin from the door check-strap, close the door slightly to allow entry of the door check-strap, and reopen the door.
 2. Loosen the two screws securing front window guide and remove the guide.
 3. Loosen the two bolts securing the door check-strap and remove them with their washers.
- From the inner side of the door remove the check-strap.



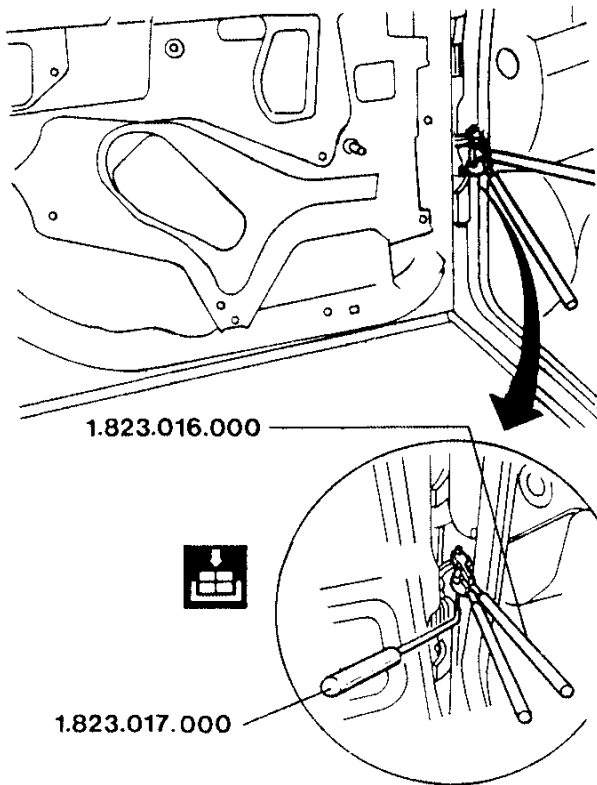
5.3 + 6.8 Nm
(0.54 + 0.69 kgm)

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To refit, reverse the procedure followed for removal and observe the following:

- Centre the pin of the check-strap using tool No. 1.823.017.000 coupled with tool No. 1.823.016.000.



1.823.016.000

1.823.017.000

- Before refitting the door check-strap, treat the resting surface of the strap with Type A rust-proofing (see: GR. 49 - TECHNICAL CHARACTERISTICS AND SPECIFICATIONS).
- After installing the door check-strap, treat the sides of the strap con Type A rust-proofing (see: GR. 49 - TECHNICAL CHARACTERISTICS AND SPECIFICATIONS).
- If the adhesive of the cellophane is no longer able to guarantee adhesion, replace the covering.
- For the refitting of components dealt with in other pages of this or other groups, refer to the relevant procedures and advice (see: PANEL).
- Tighten the retaining screws to the correct torque.

WINDOWS

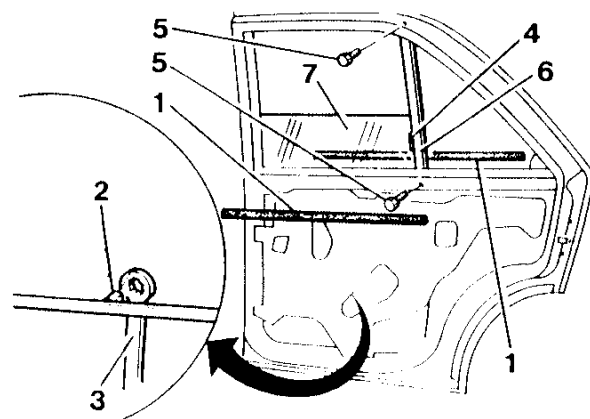
REMOVAL AND REFITTING

- Lower the door window.
 - Disconnect the negative (-) cable from the battery.
 - Remove the door panel (see: PANEL).
1. Remove the inner and outer glass guides.
 - Momentarily connect the battery (models with power windows).
 2. Position the glass so that the plastic button securing the window to the window raising device can be reached.
 3. Using a number 11 fixed box spanner act on the tabs of the button and detach the glass from the pin.
 4. Lower the glass and disconnect the pad from the rear guide.
 5. Loosen the two screws securing the rear pillar.
 6. Remove the rear pillar by withdrawing it from above.
 7. Remove the glass by drawing it upwards.



To refit, reverse the procedure followed for removal and observe the following:

- For the refitting of components dealt with in other pages of this or other groups, refer to the relevant procedures and advice (see: PANEL).



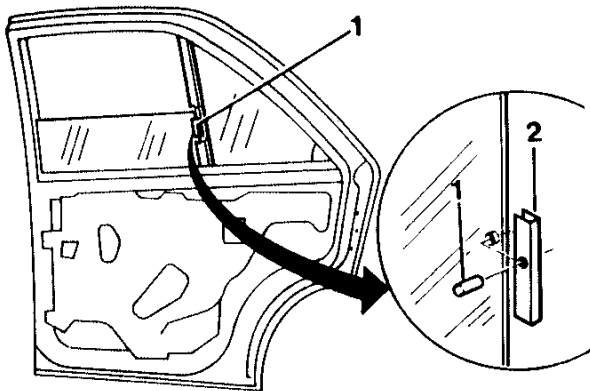


GUIDE PAD

REMOVAL AND REFITTING

NOTE: The guide pad should only be replaced if it is broken.

- Wind the window half way down.
- Withdraw the door pillar seal.
- 1. Using a punch withdraw the pin.
- 2. Remove the pad.



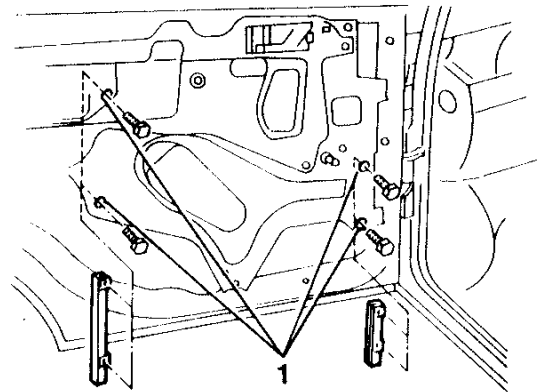
To refit, reverse the procedure followed for removal and observe the following:

- Position the new pad.
- Fix the pad to the glass using the same pin.
- Refit the glass in the door pillar seal.

WINDOW GUIDES

REMOVAL AND REFITTING

- Disconnect the negative (-) cable from the battery.
- Wind the window up.
- Remove the door panel (see: PANEL) and the cellophane.
- 1. Loosen the four screws securing the window guides to the frame and remove the guides.



To refit, reverse the procedure followed for removal and observe the following:

- For the refitting of components dealt with in other pages of this or other groups, refer to the relevant procedures and advice (see: PANEL).

**FRAME****(vehicles without power windows)****REMOVAL AND REFITTING**

NOTE: When disassembling (or reassembling) avoid damaging the paintwork.

- Disconnect the negative (-) cable from the battery.
 - Remove the door panel (see: PANEL).
 - Remove the door window (see: WINDOWS).
1. Cut the clamp securing the door opening cable to the frame.
 2. Pull off the corrugated rubber hose, withdraw the wiring from the passage on the central pillar and disconnect them.
 3. Remove the corrugated hose by withdrawing it from the wiring.
 4. Disconnect the automatic door closure connector and the lock check.
 5. Disconnect the rod connecting the door lock control to the lock device.
 6. Using tool No. 1.823.015.000 disconnect the two plastic buttons securing the frame to the lock device.

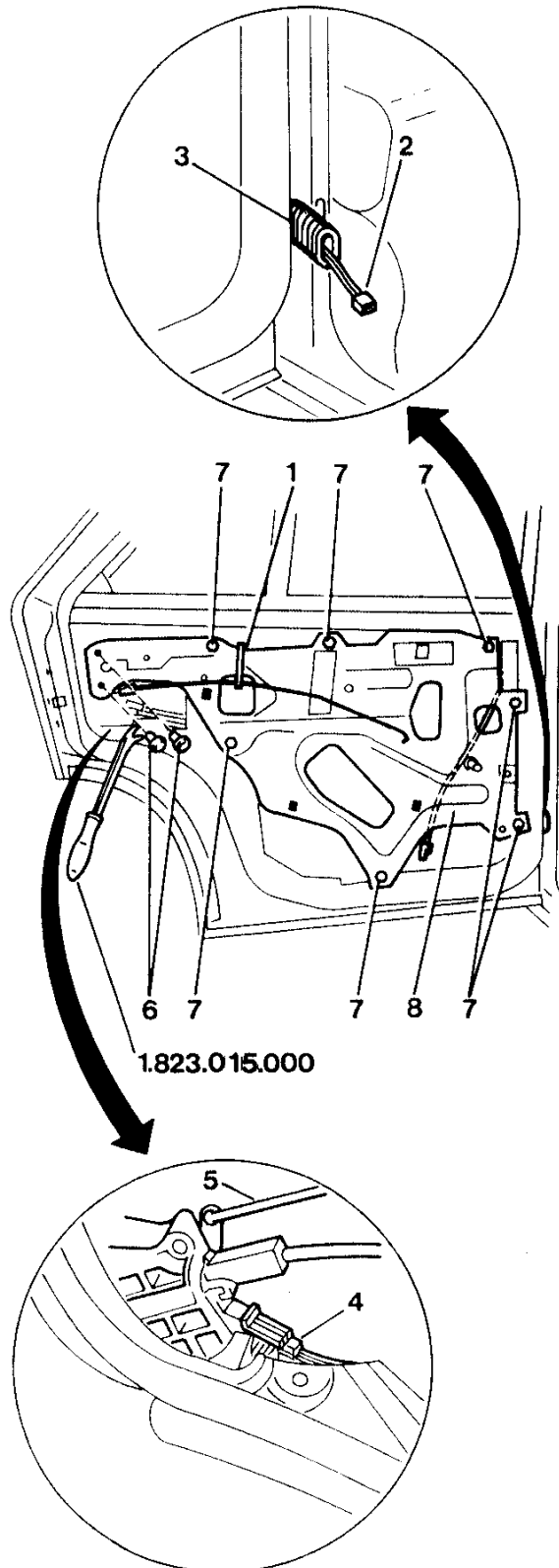
NOTE: Cover the working area with adhesive tape to avoid damaging the paintwork.

7. Loosen the seven screws securing frame to the door.
8. Remove the frame, wiring and window raising device.



Refit by reversing the procedure followed for removal and observe the following:

- Before connecting the electrical connectors, check that the electrical cables have been correctly installed in them.
- Check the alignment of the frame and of the operating torque of the window raising device.



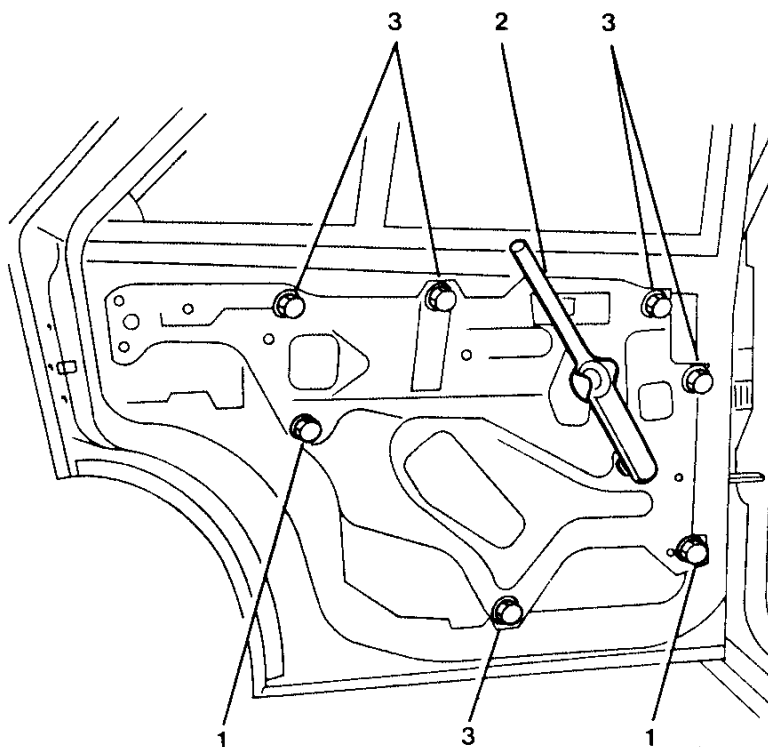


- Before proceeding with the refitting operations check the operation of the window raising device and ensure that it moves freely.
- For the refitting of components dealt with in other pages of this or other groups refer to the relative advice and procedures (see: PANEL; WINDOWS).

CHECKING FRAME ALIGNMENT AND WINDOW RAISING OPERATION TORQUE

1. Install the complete frame on the door and fix it temporarily with the two nuts as shown.

2. Check the torque necessary to lower the window by acting on the pin with tool No. 1.823.018.000 fitted with a dynamometer spanner calibrated to the maximum permitted torque (14.5 - 18.5 kgcm) and check that the lowering of the windows provokes its operation. If the effort required is too great, check the alignment between window and guide and correct as necessary by moving the frame. Check the position of the sealing strips for damage. Check and adjust the frame until the correct torque is obtained.
3. Fix the frame to the door and tighten the seven screws.



**FRAME****(vehicles with power windows)****REMOVAL AND REFITTING**

NOTE: When disassembling (or reassembling) avoid damaging the paintwork.

- Disconnect the negative (-) cable from the battery.
 - Remove the door panel (see: PANEL).
 - Remove the door window (see: WINDOWS).
1. Cut the clamp securing the door opening cable to the frame.
 2. Disconnect the automatic door closure connector and lock check from the lock device.
 3. Disconnect the door lock control connecting rod to the lock device.
 4. Detach the corrugated rubber hose, withdraw the wiring from the passage on the central pillar and disconnect it.
 5. Remove the corrugated hose from the wiring.

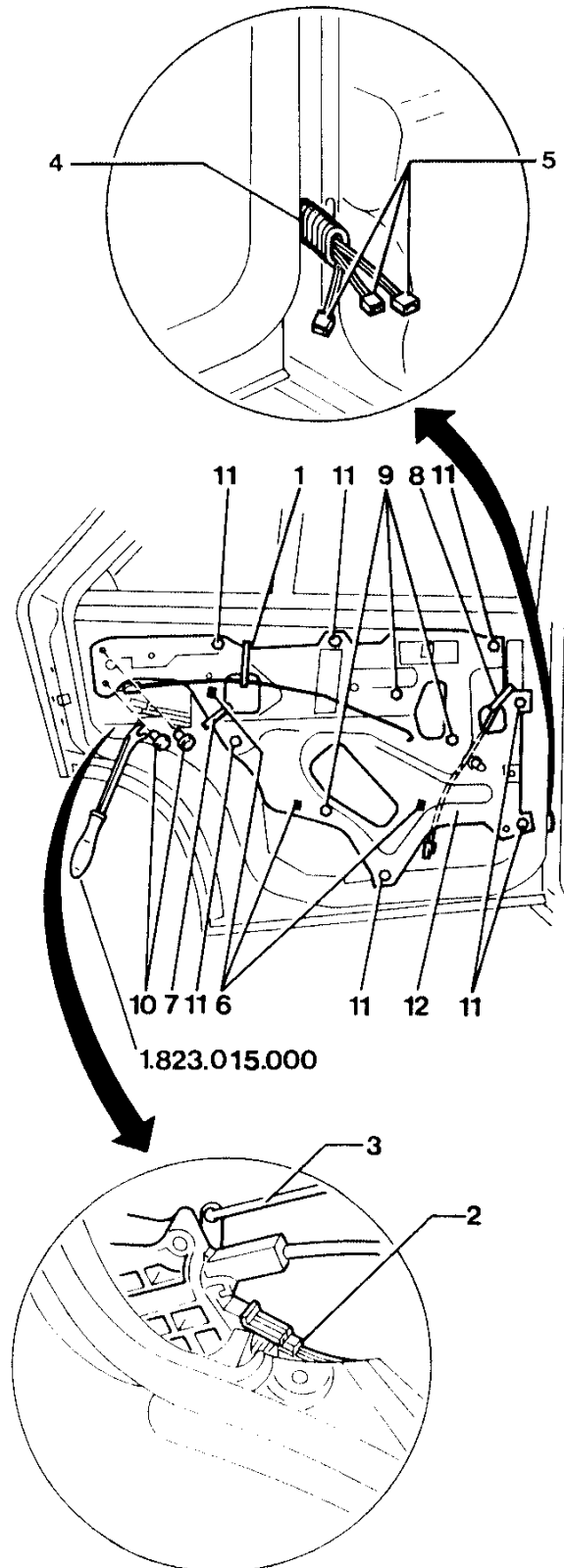
NOTE: If the power window motor is not working, the windows can still be raised and lowered. Only if the button securing the window to the raising device cannot be reached should points 9 to 11 be followed.

6. Disconnect the three attachments securing the wiring to the frame.
7. Cut the clamp securing the window raising device to the frame.
8. Cut the clamp securing the wiring to the frame.
9. Loosen the three screws securing the window raising device to the frame.
10. Using tool No. 1.823.006.000 disconnect the two plastic buttons securing the frame to the lock device.

NOTE: Cover the working area with adhesive tape to avoid damaging the paintwork.

11. Loosen the seven screws securing frame to the door.

12. Remove the frame from the window raising device.



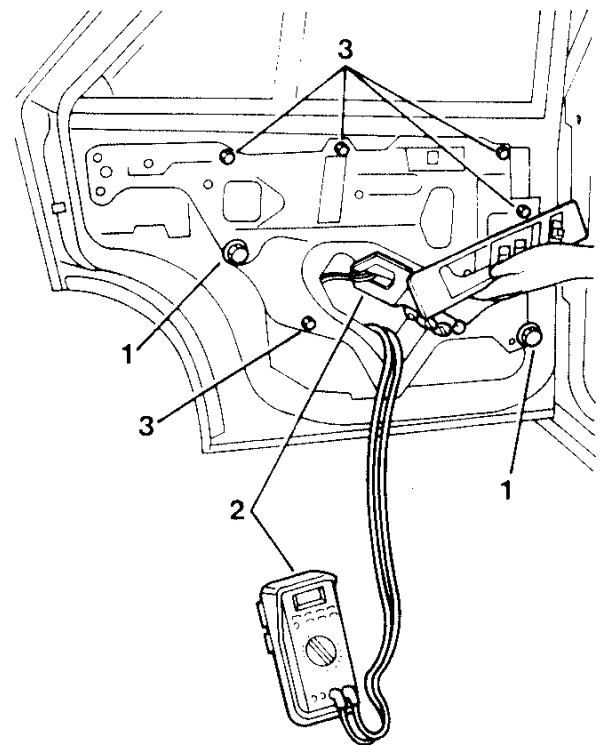


To refit, reverse the procedure followed for removal and observe the following:

- Before connecting the electrical connectors, check that the electrical cables have been correctly installed in them.
- Check the alignment of the frame and of the operating torque of the window raising device.
- Momentarily connect the battery and raise the window.
- Before proceeding with the refitting operations check that the window raising device is working correctly and that the window moves freely.
- For the refitting of components dealt with in other pages of this or other groups, refer to the relevant procedures and advice (see: PANEL; WINDOWS).

CHECKING FRAME ALIGNMENT AND WINDOW RAISING OPERATION TORQUE

1. Install the frame temporarily fixing it with the two nuts as shown.
2. Check the torque necessary for the operation of the window by connecting the clip of an ammeter to the wiring of the power window motor. Check that the intensity of current does not exceed 8 A and that the time necessary to raise the window does not exceed six/seven seconds.
If there is excessive resistance (high power absorption, or raising times too long) check the alignment between window and guide and move the frame as necessary. Check that the seals are intact and correctly positioned and check the adjustment of the frame until the correct current value is obtained.
3. Insert all the screws securing the frame and tighten fully.





LOCK DEVICE

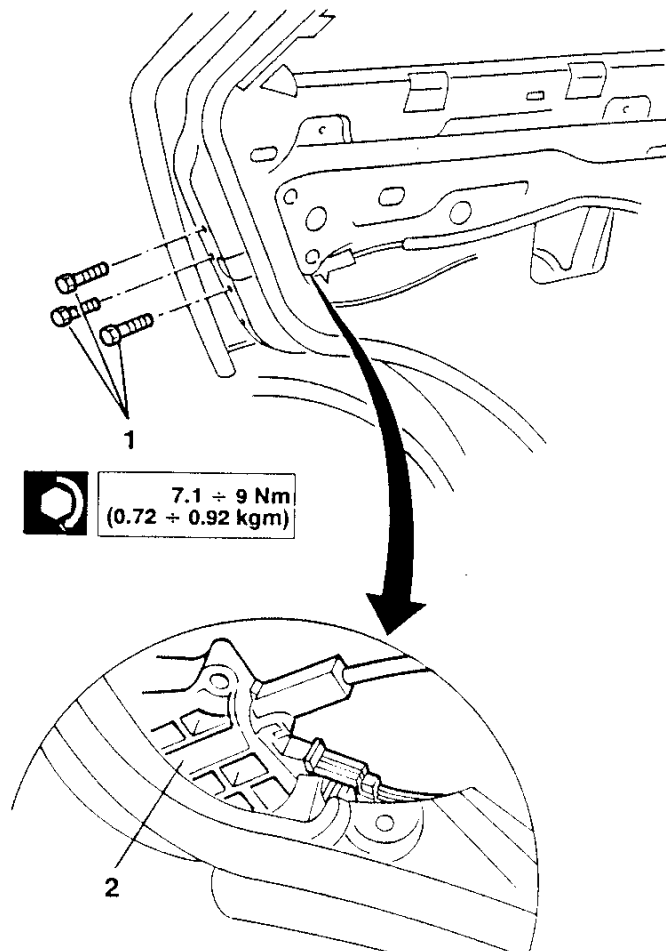
REMOVAL AND REFITTING

- Disconnect the negative (-) cable from the battery.
- Remove the door panel (see: PANEL).
- Remove the door frame (see: FRAME).
- 1. Loosen the three screws securing the lock device to the door and remove them along with their washers.
- 2. Remove the lock device.



To refit, reverse the procedure followed for removal and observe the following:

- Before connecting the electrical connectors, check that the electrical cables are correctly inserted.
- For the refitting of components dealt with in other pages of this or other groups, refer to the relevant procedures and advice (see: PANEL, FRAME).
- After refitting adjust the catch of the lock device on the door pillar (see: DOOR CATCH).
- Tighten the retaining screws to the correct torque.





WINDOW RAISING DEVICE

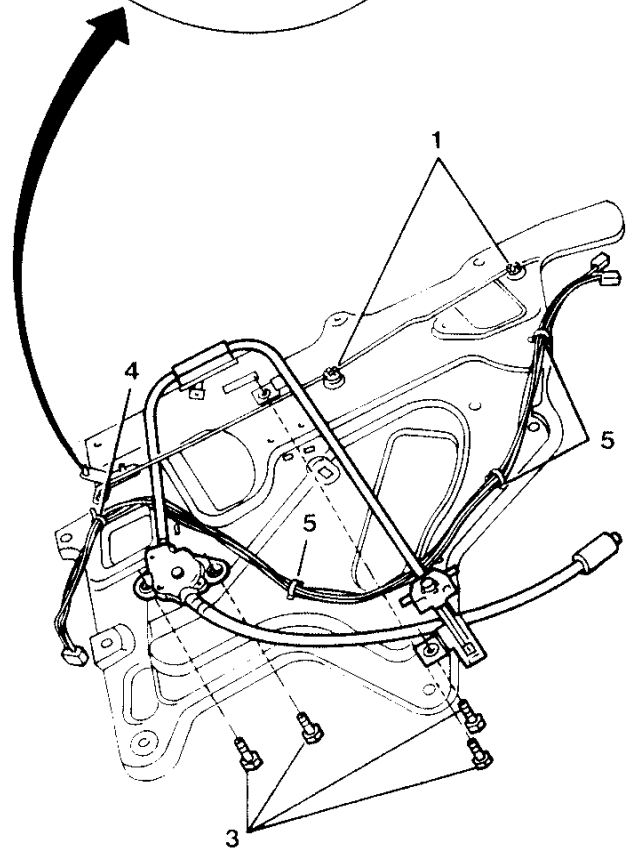
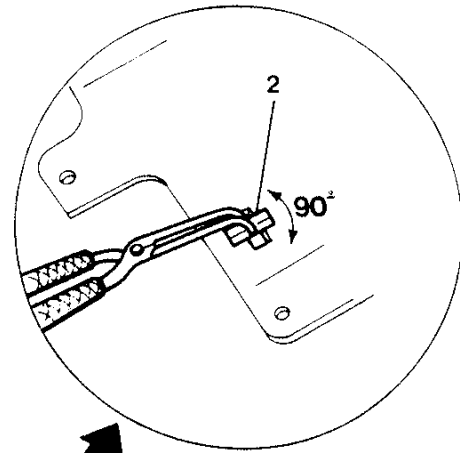
REMOVAL AND REFITTING

- Disconnect the negative (-) cable from the battery.
 - Remove the door panel (see: PANEL) and the cellophane.
 - Remove the door frame (see: FRAME) and take to a bench.
1. Disconnect the door safety closure rod from the clip on the frame.
 2. Rotate the retaining pin of the rod articulation by 90° using a suitable pair of pliers and remove the rod.
 - Disconnect (models with power windows) the window raising motor power supply connector.
 3. Loosen the screws securing the window raising device to the frame and separate it from the frame.
 4. Cut the clamp securing the wiring to the frame.
 5. Disconnect the three attachments securing the wiring to the door frame by rotating them 90°.



To refit, reverse the procedure followed for removal and observe the following:

- For the refitting of components dealt with in other pages of this or other groups, refer to the relevant procedures and advice (see: PANEL, FRAME).



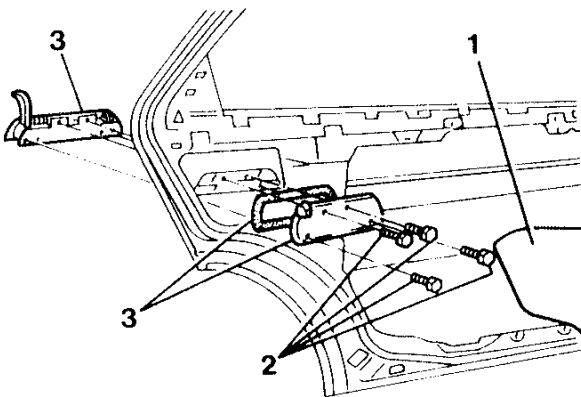


OUTSIDE DOOR HANDLE

REMOVAL AND REFITTING

NOTE: When disassembling (or reassembling) avoid damaging the paintwork.

- Disconnect the negative (-) cable from the battery.
- Place adhesive tape around the handle in order to avoid damaging the door.
- 1. Remove the door panel (see: PANEL) and the cellophane.
- 2. Loosen the four screws securing the handle and remove them.
- 3. Remove the covering and gasket from the inner side of the door and the complete handle from the outside.



To refit, reverse the procedure followed for removal and observe the following:

Before securing the handle in its final position adjust its position as described below.

For the refitting of components dealt with in other pages of this or other groups, refer to the relevant procedures and advice (see: PANEL).

ADJUSTMENT

- Before fixing the handle in its final position check that:
 - the handle can be lifted easily
 - the upper edge of the handle does not knock against its housing.
- Lock the handle in its final position.
- Check the operation of the handle once again.

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FIXED WINDOWS

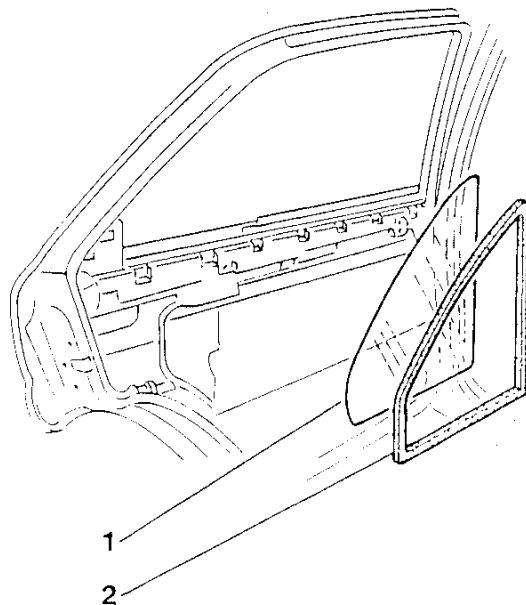
REMOVAL AND REFITTING

- Remove the door window (see: WINDOWS).
- 1. Remove the window by moving it to the centre of the door complete with sealing strip.
- 2. Separate the window from the sealing strip.



To refit, reverse the procedure followed for removal and observe the following:

For the refitting of components dealt with in other pages of this or other groups, refer to the relevant procedures and advice (see: WINDOWS).

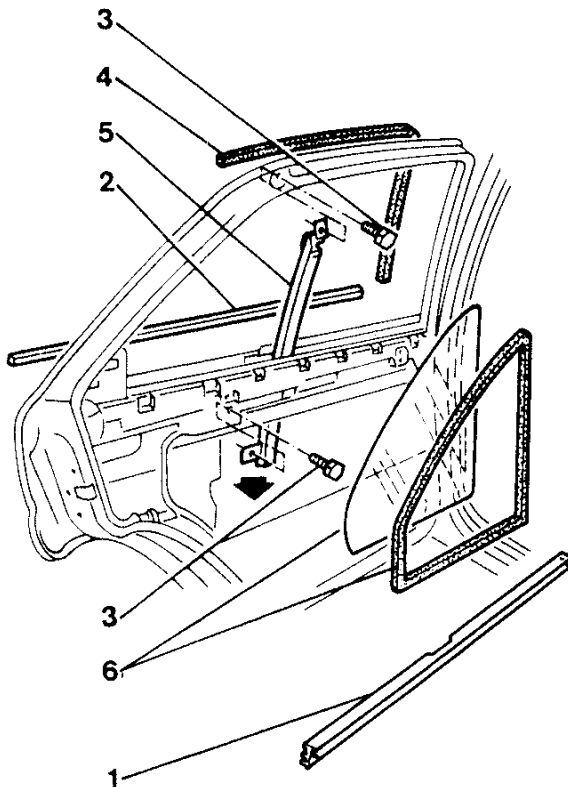




WINDOW SEALS

REMOVAL AND REFITTING

- Lower the door window.
 - Disconnect the negative (-) cable from the battery.
 - Remove the door panel (see: PANEL).
1. Remove the internal sealing strip.
 2. Remove the external sealing strip.
 3. Loosen the screws securing the fixed window pillar and lower it enough to be able to remove the sealing strip.
 4. Withdraw and remove the velvet perimeter strip.



To refit, reverse the procedure followed for removal and observe the following:

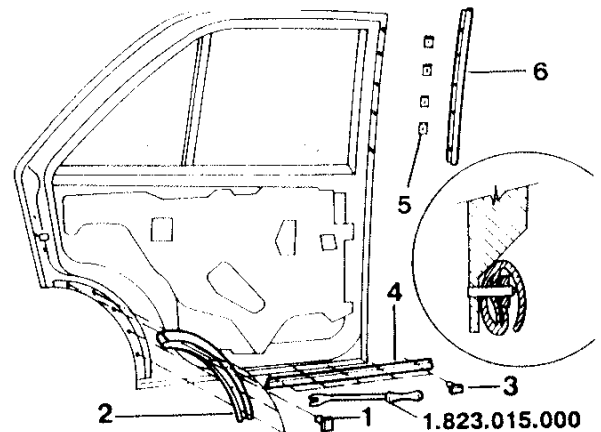
- For the refitting of components dealt with in other pages of this or other groups, refer to the relevant procedures and advice.

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LOWER DOOR FINISHING STRIP

REMOVAL AND REFITTING

1. Using tool 1.823.015.000 disconnect the five buttons securing the wheel housing strip to the door.
2. Remove the wheel housing strip.
3. Using tool 1.823.015.000 disconnect the five buttons securing the lower strip to the door.
4. Remove the lower strip.
5. Disconnect the front strip from the five retaining hooks.
6. Remove the strip.



To refit, reverse the procedure followed for removal.

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TRIANGULAR MOULDING FOR FIXED WINDOWS

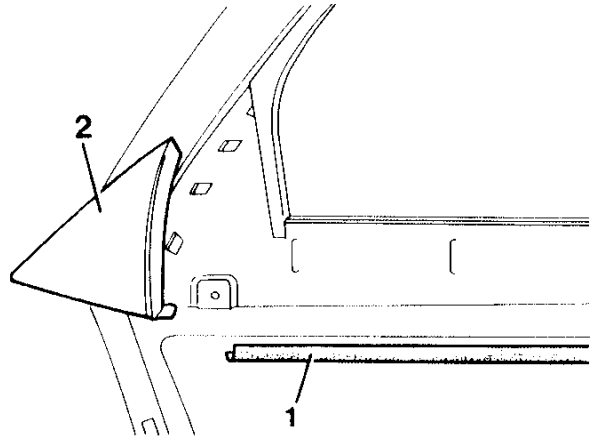
REMOVAL AND REFITTING

- Remove the panel (see: PANEL).
- 1. Remove the Inner sealing strip.
- 2. Detach the triangular moulding from the door.



To refit, reverse the procedure followed for removal and observe the following:

- For the refitting of components dealt with in other pages of this or other groups, refer to the relevant procedures and advice (see: PANEL).





TECHNICAL CHARACTERISTICS AND SPECIFICATIONS

GENERAL SPECIFICATIONS

FLUIDS AND LUBRICANTS

APPLICATION	TYPE	NAME
- Lock units - Door stop pins	GREASE LUBRICANT SILICONE SPRAY	AMECO - OPTIMOL Optimoly - White paste T COMPOUND. 7 Rhône - Poulenc Chimica S.p.A.

TIGHTENING TORQUES

Description	N·m	kg·m
Screws securing front door hinges	9 - 10	0.98 - 1.02
Screws securing rear door hinges	9 - 10	0.98 - 1.02
Screws securing front and rear door check-straps	5.3 - 6.8	0.54 - 0.69
Screws securing front and rear door locks	7.1 - 9	0.72 - 0.98
Screws securing front and rear door lock catches to body	17 - 22	1.73 - 21.56

SPECIFIC TOOLS

TOOL NUMBER	DESCRIPTION
1.823.014.000	Puller for plastic parts
1.823.015.000	Puller for plastic buttons
1.823.016.000	Puller for door stop-tie rod pin
1.823.017.000	Centering tool for door stop-tie rod pin

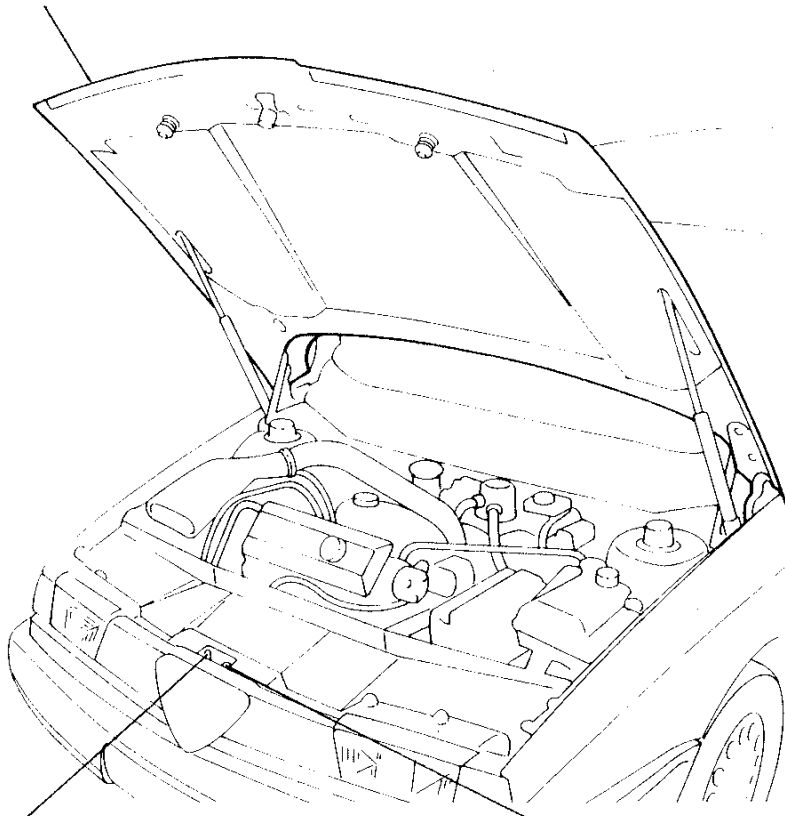
**GROUP 56****BOOT AND BONNET****INDEX**

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ILLUSTRATED INDEX

BONNET (Page 56-5)



**BONNET SAFETY
LOCK**

(Page 56-8)

BONNET RELEASE CONTROL

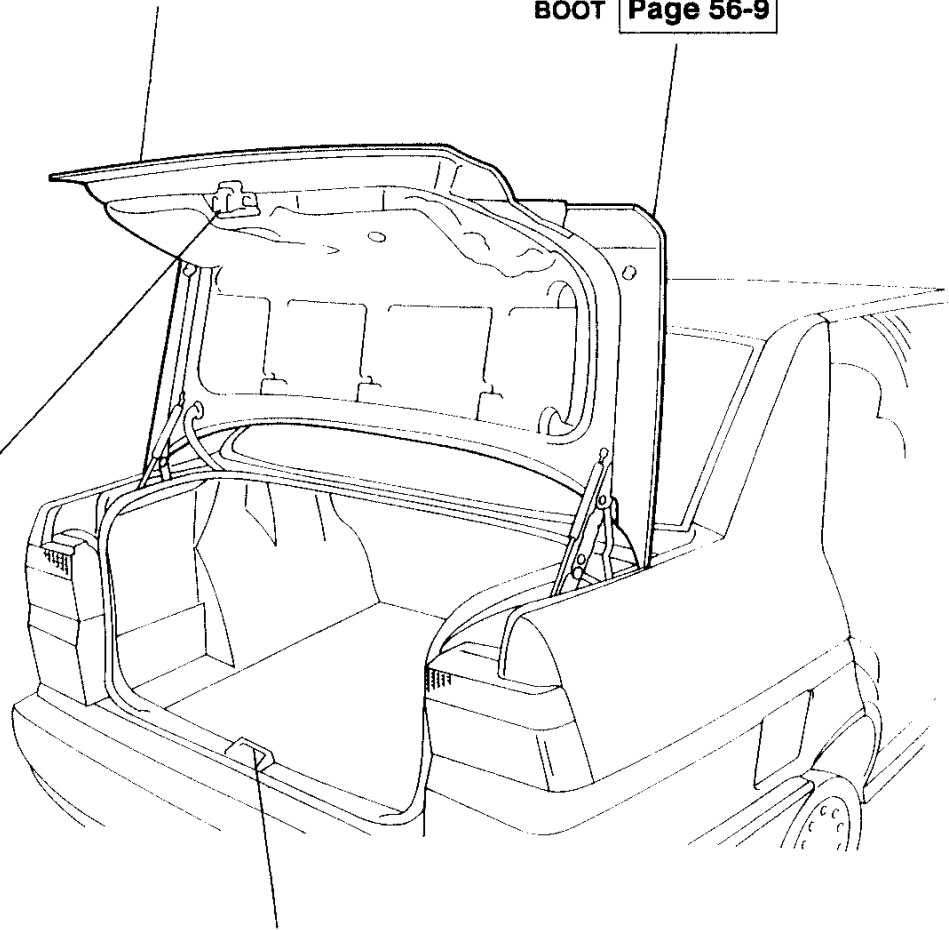
(Page 56-6)



LOCK BLOCK **Page 56-11**

BOOT **Page 56-9**

LOCKING
DEVICE
Page 56-10



BOOT CATCH
Page 56-10





BOOT AND BONNET

BONNET

REMOVAL AND INSTALLATION

NOTE: Avoid damaging the paintwork during removal or installation of the bonnet.

- Open the bonnet.
- Disconnect the negative lead (-) from the battery.



CAUTION:
Support the bonnet properly to prevent it falling onto operators during removal.

1. Remove the dampers from the bonnet.
2. Unscrew the four bolts (two per hinge) securing the hinge to the bonnet.
3. Remove the bonnet.



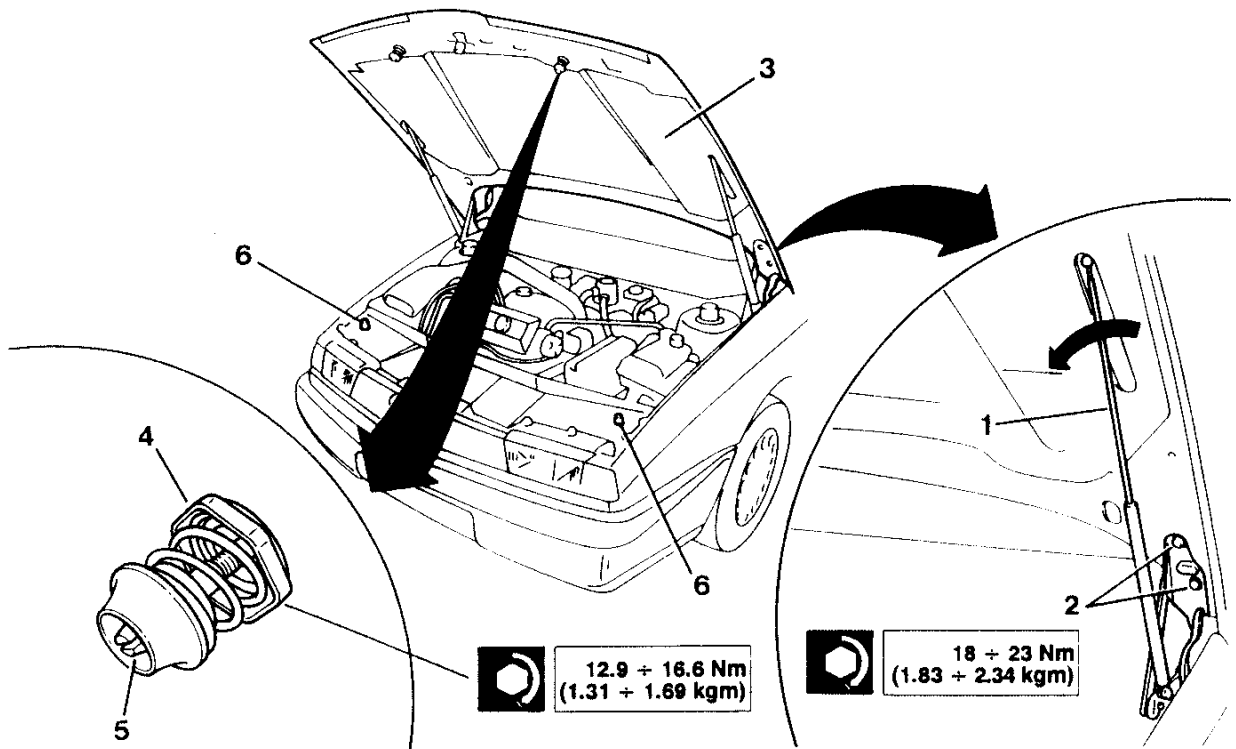
- Replace by reversing the removal procedure.
- Before tightening the hinge retaining bolts adjust the position of the bonnet (see: GR. 49 - REPLACING MOBILE COMPONENTS - BONNET)
 - Following installation, if necessary, adjust the closure adjustment pins and the shock buffers as indicated in the following.

ADJUSTMENT OF THE BONNET POSITION ADJUSTMENT PINS

4. Slightly loosen the hinge bolts.
 5. Screw or unscrew the setting pin as necessary.
- Check for correct adjustment and repeat the operation if necessary.
 - Tighten the hinge bolt.

SHOCK BUFFER ADJUSTMENT

6. Manually screw or unscrew the shock buffers as necessary.
- Check for correct adjustment and repeat the operation if necessary.





BONNET RELEASE CONTROL

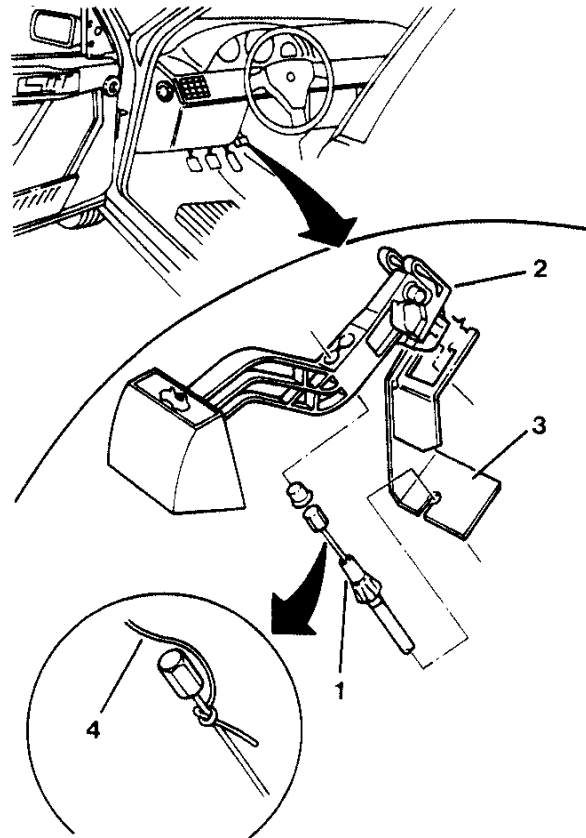
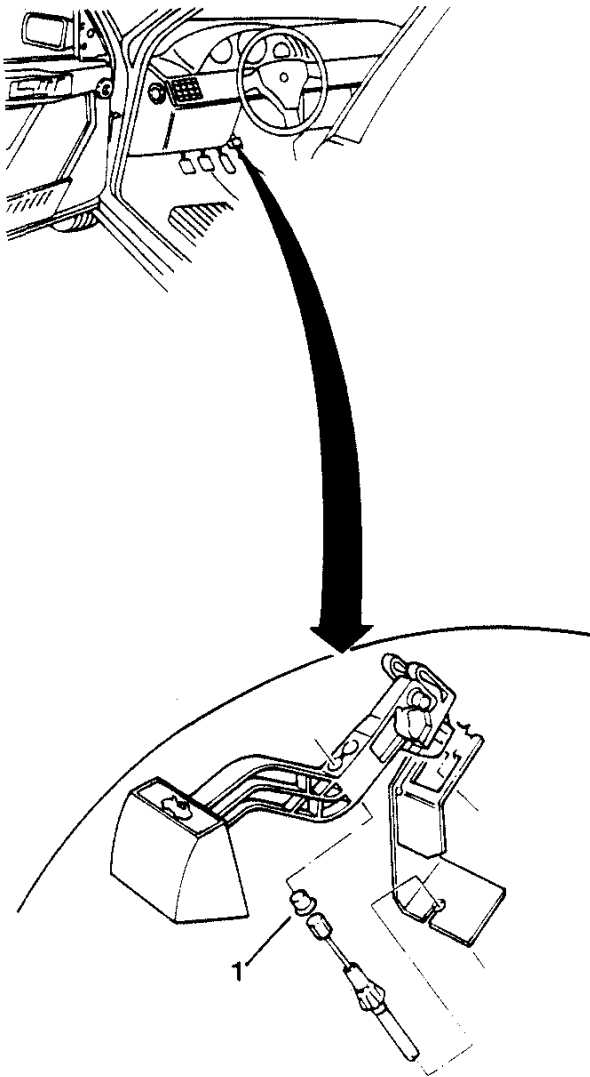
REMOVAL AND INSTALLATION

– Disconnect the negative lead (-) from the battery.

Working from inside the vehicle:

1. Remove the rubber protection.

1. Slide the release control cable off the lever seating.
2. Using a screwdriver, apply leverage to the securing wings and, unhook and remove the cable from the lever bracket.
3. Using a pair of pliers remove the cable from the lever seating bracket.
4. Tie a thread to the end of the control cable in order to facilitate installation of the new cable.

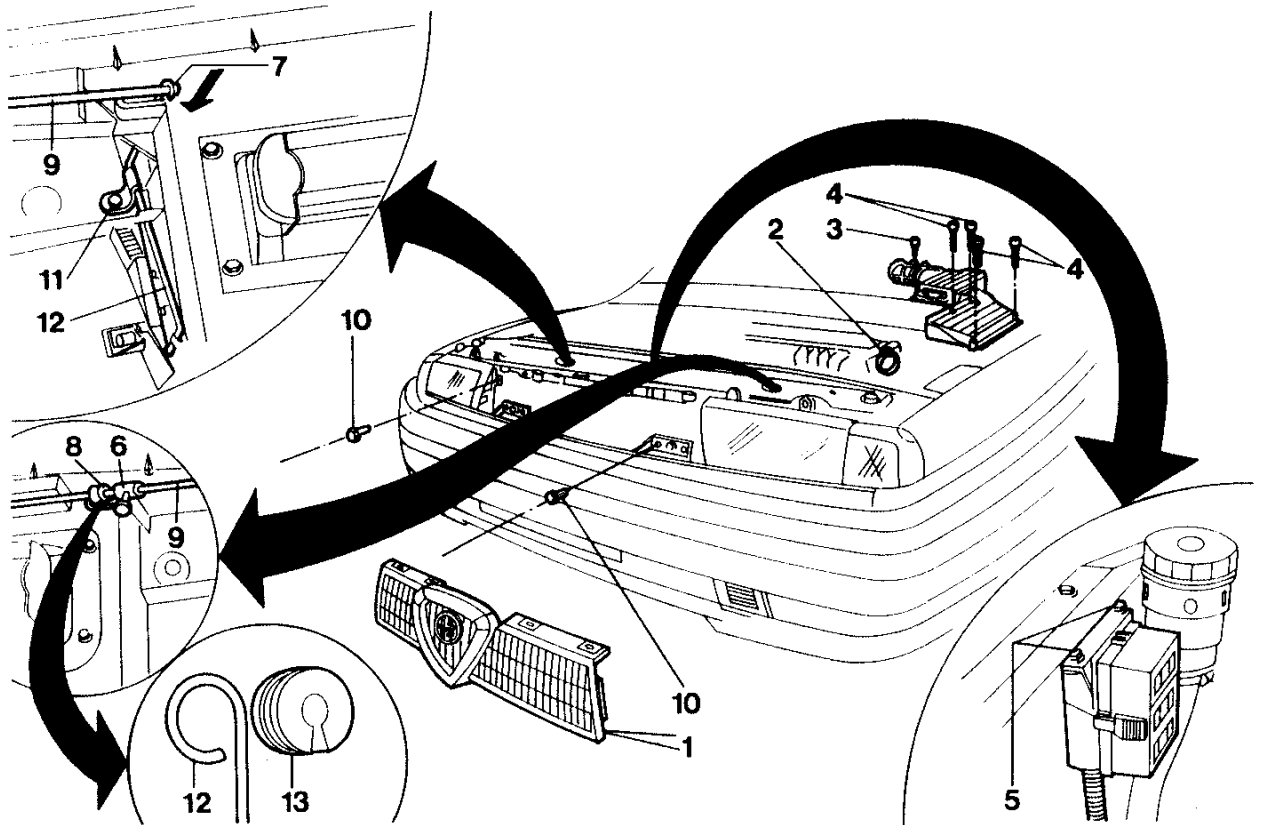




– Open the bonnet

Working from outside the vehicle:

1. Remove the front grill (see: GR. 75 - FRONT GRILL AND MOULDING UNDER HEADLIGHT).
2. Loosen the flow meter clamp retaining screws.
3. Unscrew the flow meter retaining screws.
4. Unscrew the four screws securing the filter cover and remove the cover together with the flow meter.
5. (Only for 1.8/2.0 TS e 2.4 V6): unscrew the two screws securing the relay box to the front crossmember and remove it.
6. Loosen the cable tension adjustment pawl.
7. Unhook the control cable from the right securing device.
8. Disconnect the cable from the pawl on the left securing device.
9. Slide the cable from the sheath and secure the thread previously connected to the end inside the vehicle.
10. Unscrew the screws holding the securing device brackets to the crossmember.
11. Remove the brackets.
12. Remove the securing device.
13. Separate the pawls from the securing devices.



Install by reversing the removal procedure.

- For installation of components and/or parts dealt with in other pages of this or other groups, refer to the relative procedures and warnings.
- Following installation adjust the bonnet release cable as follows.

ADJUSTMENT OF BONNET RELEASE CABLE

- Apply traction to the cable and screw the cable retaining screws located on the pawl.
- Check that the bonnet opens correctly.



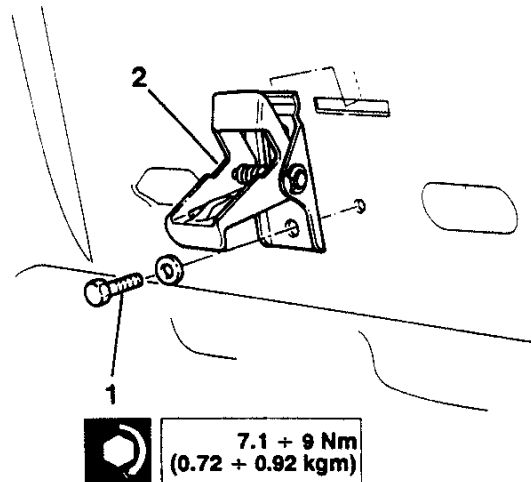
BONNET SAFETY LOCK

REMOVAL AND INSTALLATION

- Disconnect the negative cables (-) from the battery.
- Open the bonnet.
- 1. Unscrew the safety locking device retaining screws.
- 2. Remove the safety locking device by unhooking it from the bonnet.



Install by reversing the removal procedure.





BOOT

REMOVAL AND INSTALLATION

NOTE: Avoid damaging the paintwork during removal or installation.

- Disconnect the negative cable (-) from the battery.



CAUTION:

Support the boot lid properly to prevent it falling onto the operators during removal.

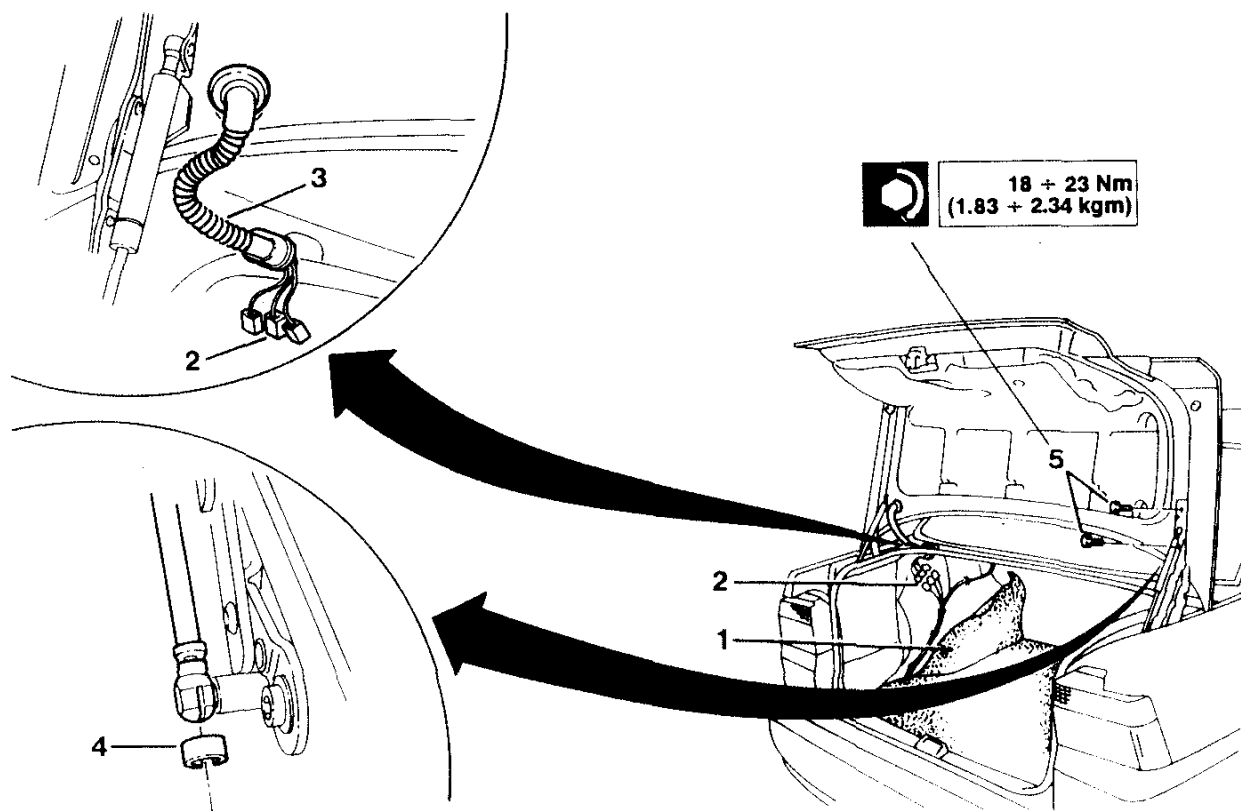
1. Remove the luggage compartment trim from the left side in order to again access to the boot wiring connectors.
2. Disconnect the boot wiring connectors.

3. Withdraw the rubber bellows from the vehicle side.
4. Withdraw the safety stop from the boot lid shock absorber from the vehicle side and disconnect the shock absorber from its seating.
5. Unscrew the four bolts securing the hinges to the boot lid and remove the lid.



Install by reversing the removal procedure.

- Before tightening the hinge bolts adjust the position of the boot lid (see: GR. 49 - REPLACEMENT OF MOBILE COMPONENTS - BOOT).
- Before connecting the connectors, check that the cables are correctly inserted in them.

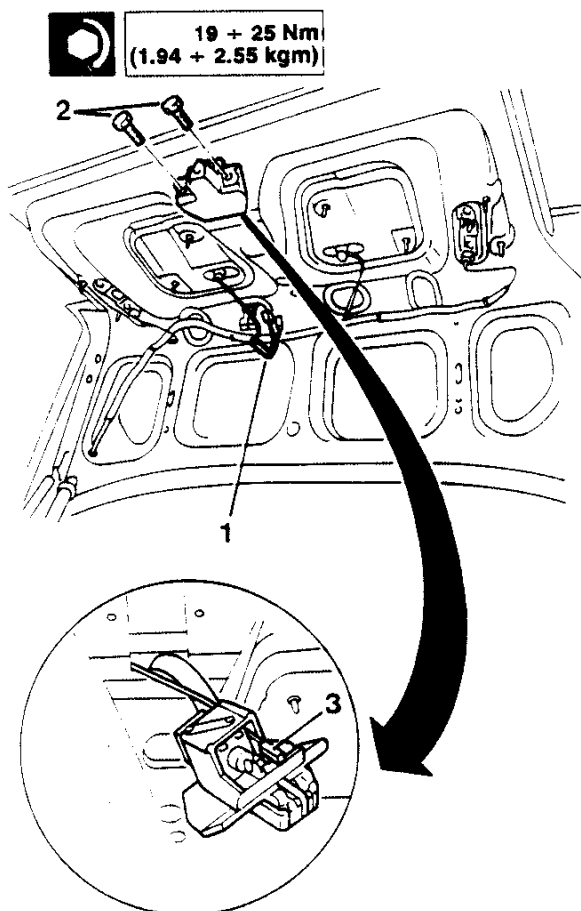




LOCKING DEVICE

REMOVAL AND INSTALLATION

- Disconnect the negative cable (-) from the battery.
- Remove the luggage compartment trim (see: GR. 66 - LUGGAGE COMPARTMENT TRIM).
- 1. Disconnect the two boot release and Check Panel connectors.
- 2. Unscrew the locking device retaining bolts and remove the device from the boot lid.
- 3. Using a screwdriver, disconnect the tie-rod from the lock block and remove the device.

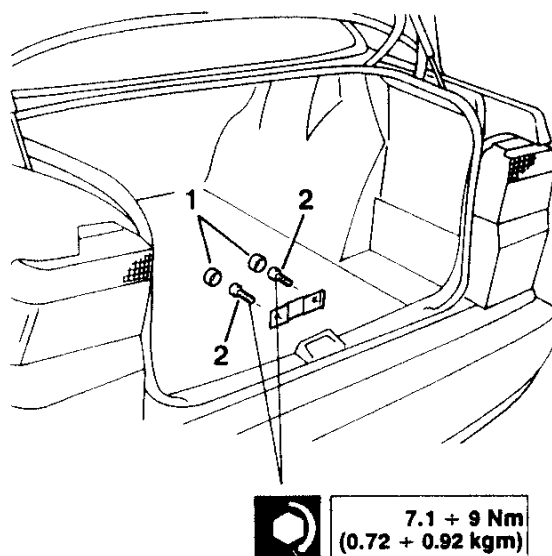


- Install by reversing the removal procedure.
- For installation of components and/or parts dealt with in other pages of this or other groups, refer to the relative procedures and warnings.
 - Before connecting the electrical connectors check that the electric cables have been correctly inserted into them.

BOOT LOCK CATCH

REMOVAL AND INSTALLATION

1. Remove the catch retaining screw covers.
2. Unscrew the two screws securing the catch to the body.



- Install by reversing the removal procedure.
- Before definitively tightening the catch retaining screws adjust as indicated below.

CATCH ADJUSTMENT

- Correctly position the catch and tighten the retaining screws.
- Check that the boot lid opens correctly and repeat the operation if necessary.



BOOT LOCK

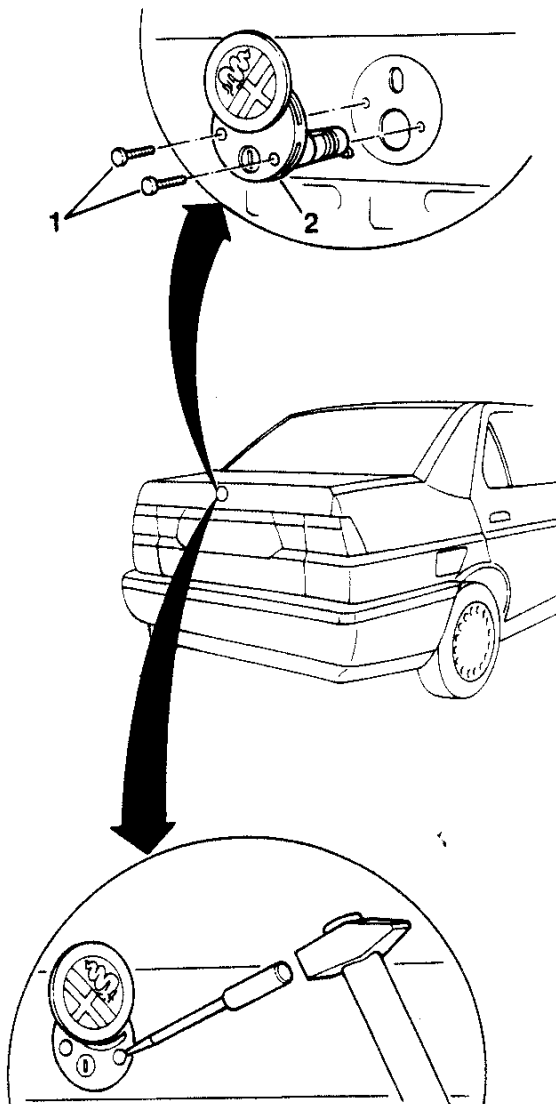
REMOVAL AND INSTALLATION

- Disconnect the negative cable (-) from the battery.
- Remove the luggage compartment trim (see: GR. 66 - LUGGAGE COMPARTMENT TRIM).
- Working from inside the boot unhook the tie-rod securing the lock block to the boot lid release device (on the lock side).
- 1. Using a suitable punch, unscrew the two self-cutting screws securing the lock to the boot lid.
- 2. Remove the lock block.



Install by reversing the removal procedure.

- For installation of components and/or parts dealt with in other pages of this or other groups, refer to the relative procedures and warnings.





TECHNICAL CHARACTERISTICS AND SPECIFICATIONS

GENERAL INDICATIONS

FLUIDS AND LUBRICANTS

APPLICATION	TYPE	NAME
- Locks	GREASE	AMECO - OPTIMOL Optimoly - Paste White T COMPOUND. 7 Rhône - Poulenc Chimica S.p.A.
- Boot and bonnet lid hinges	SILICON	
- Gaskets	SPRAY LU- BRICANT	

TIGHTENING TORQUES

Description	N·m	kg·m
Screws securing bonnet lid hinge to engine compartment	18 ÷ 23	1.83 ÷ 2.34
Screws securing boot lid hinge to luggage compartment	18 ÷ 23	1.83 ÷ 2.34
Bonnet catch retaining screws	7.1 ÷ 9	0.72 ÷ 0.98
Screws securing bonnet safety hook	7.1 ÷ 9	0.72 ÷ 0.98
Bonnet locking pin	12.9 ÷ 16.6	1.32 ÷ 1.69
Screws securing boot lid lock to luggage compartment	21.25 ÷ 26.25	2.17 ÷ 2.67

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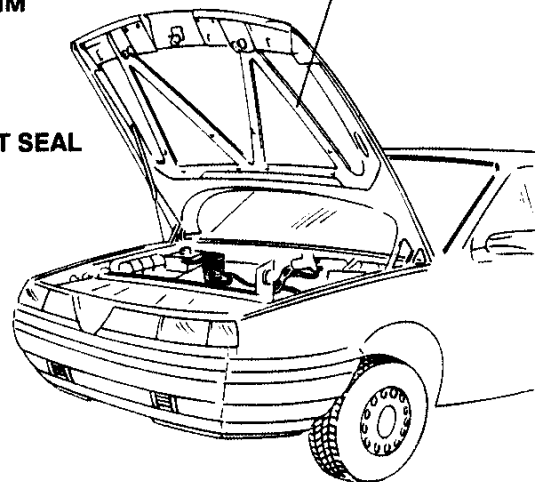
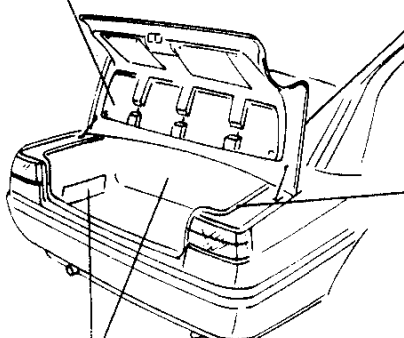
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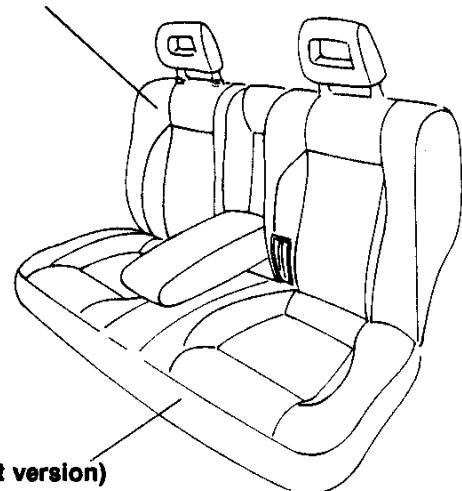
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TRIM

FRONT PILLAR TRIM

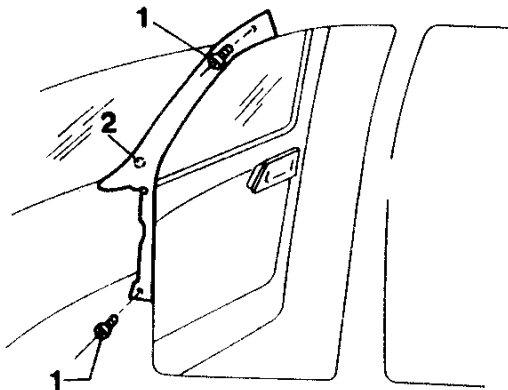
REMOVAL AND INSTALLATION

1. Unscrew the two screws securing the trim to the pillar.
2. Disconnect the retaining button and remove the trim by disengaging the clips.



To install, reverse the order of the procedures used for removal and note the following:

- Before refitting the trim, ensure that the anti-friction felts are in place to prevent subsequent squeaking.



CENTRE PILLAR TRIM

REMOVAL AND INSTALLATION

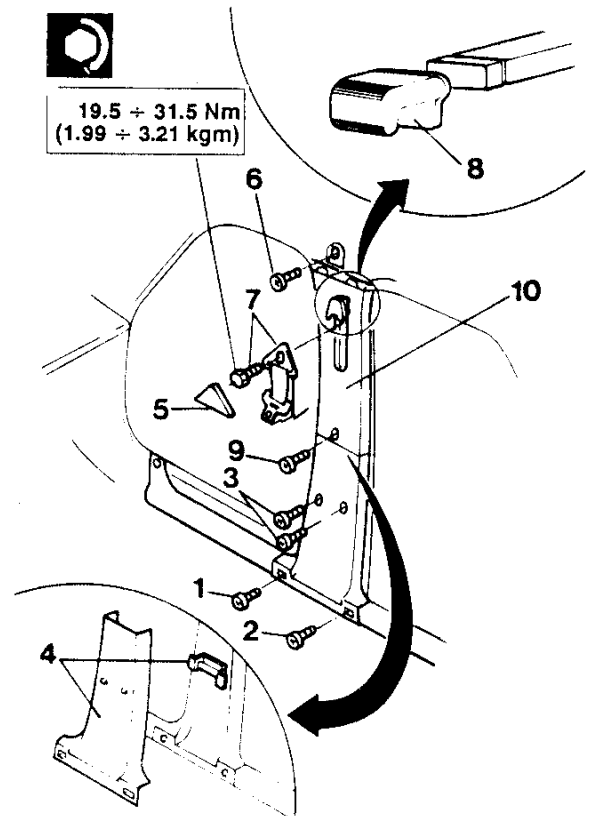
1. Unscrew the screws securing the central pillar lower trim to the front heel plate.
2. Unscrew the screws securing the central pillar lower trim to the rear heel plate.
3. Unscrew the two screws securing the lower trim to the central pillar.
4. Remove the lower trim by unhooking it from the seat belt bracket retaining clip.
5. Prise off the cover of the screw securing the front seat belt to the reel unit.
6. Unscrew the screw securing the roof panel to the central pillar.

7. Unscrew the screw securing the seat belt upper attachment and remove the attachment.
8. Remove the seat belt adjustment control handle.
9. Unscrew the screw securing the central pillar upper trim.
10. Remove the central pillar upper trim.



To install, reverse the order of the procedures used for removal and note the following:

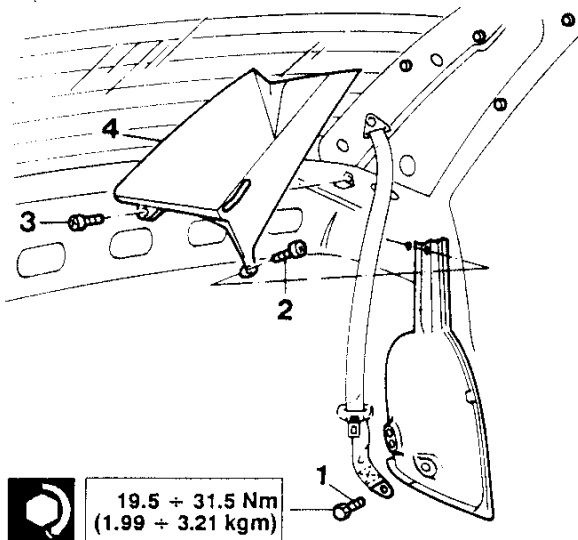
- Before refitting the trim, ensure that the anti-friction felts have been installed to prevent subsequent squeaking.
- After refitting the seat belt retaining bolts, tighten them to the specified torque.



REAR PILLAR TRIM

REMOVAL AND INSTALLATION

- Disconnect the negative lead (-) from the battery.
 - Remove the right or left hand rear seat as required (for split rear seat versions) or remove the complete rear seat (normal versions) (see: REAR SEATS).
 - Remove the rear window shelf trim (see: REAR WINDOW SHELF TRIM).
1. Back off the screws securing the rear seat belt lower attachment to the wheel housing.
 2. Unscrew the screws securing the wheel housing trim to the rear pillar.
 3. Unscrew the screw securing the pillar trim to the rear windscreen shelf.
 4. Disconnect the four buttons securing the trim to the rear pillar and remove the trim withdrawing the seat belt.



To install, reverse the order of the procedures used for removal and note the following:

- Before refitting the trim, ensure that the anti-friction pads are installed to avoid subsequent squeaking.
- For components and/or parts dealt with in other pages of this or other groups, refer to the applicable procedures and instructions (see: REAR SEATS AND REAR WINDOW SHELF TRIM).

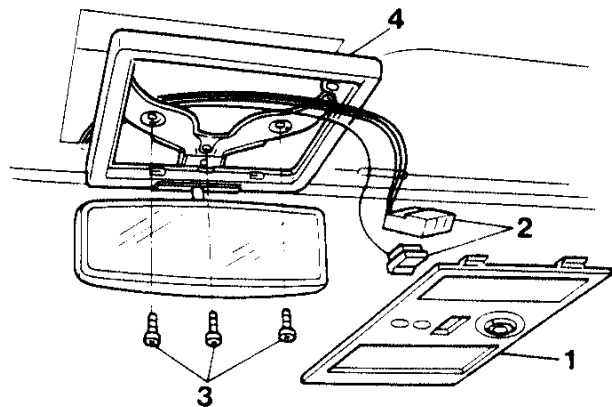
- After refitting the seat belt retaining bolts, tighten them to the specified torque.

ROOF PANEL

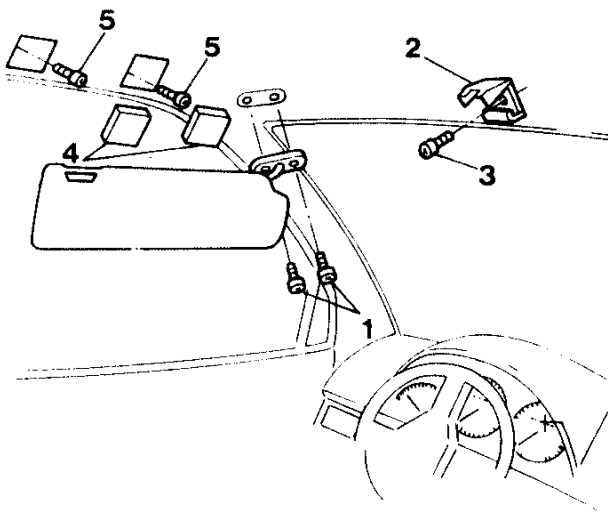
REMOVAL AND INSTALLATION

NOTE: Ensure that hands are clean before removing roof panel.

- Disconnect the negative (-) lead from the battery.
1. Withdraw the front courtesy light from the moulding.
 2. Disconnect the the lamp supply connector and, if present, the sun roof control switch connector.
 3. Unscrew the three screws securing the courtesy light moulding to the roof panel.
 4. Remove the courtesy light moulding together with the rear-view mirror.



1. Unscrew the four screws securing the sun visors to the roof panel and remove the visors.
2. Remove the sun visor retaining screw covers.
3. Unscrew and remove the hook retaining screws.
4. Prise of the two driver's side screw caps.
5. Unscrew the two screws securing the roof panel on the driver's side.



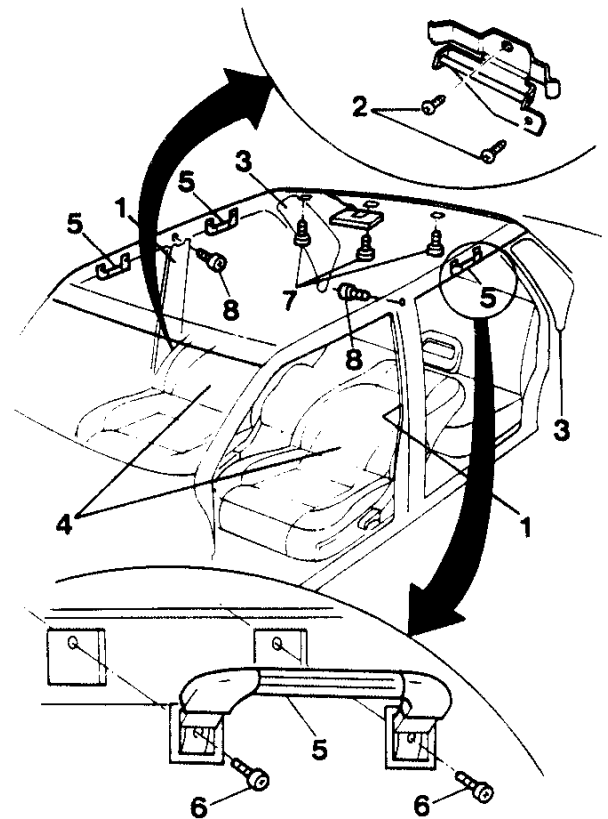
- Remove the front pillar trim (see: FRONT PILLAR TRIM).
1. Unscrew the screws securing the central pillar trim and remove the trim from the clip.
 2. Unscrew the two screws securing seat belt clip to the left-hand central pillar and lower the clip.
 3. Remove the upper part of the rear pillar cover.
 4. Fully lower the front seat backrests.
 5. Raise the passenger grab handles in order to gain access to screws securing them to the roof.
 6. Unscrew the screws (two per handle) and remove the three passenger grab handles.

7. Unscrew and remove the three rear screws securing the roof panel to the roof and the plastic mouldings.
 8. Unscrew the two screws securing the roof panel to the central pillars.
- Remove the roof panel through the rear door after disconnecting the rear courtesy light supply connector.



To install, reverse the order of the procedures used for removal and note the following:

- Before reconnecting the electrical connectors, check that the electric cables are correctly inserted.
- For components dealt with in other pages of this and other groups, refer to the applicable instructions and procedures (see: FRONT PILLAR TRIM).



REAR WINDOW SHELF TRIM

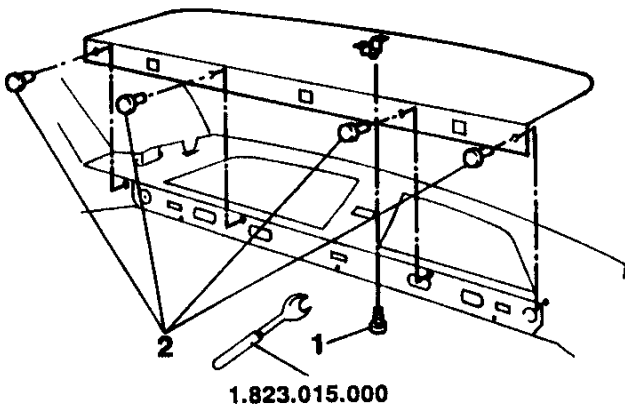
REMOVAL AND INSTALLATION

- Disconnect the negative lead (-) from the battery.
 - Remove the right or left hand rear seat as required (for split rear seat versions) or remove the complete rear seat (normal versions)(see: REAR SEATS).
1. Operating inside the luggage compartment, unscrew and remove the screw securing the trim to the shelf.
 2. Operating inside the vehicle, disconnect the four buttons securing the trim to the shelf using tool No. 1.823.015.000 and remove the shelf.



To install, reverse the order of the procedures used for removal and note the following:

- Before reconnecting the electrical connectors, check that the electric cables are correctly inserted.
- For components dealt with in other pages of this and other groups, refer to the applicable instructions and procedures (see: REAR SEATS).



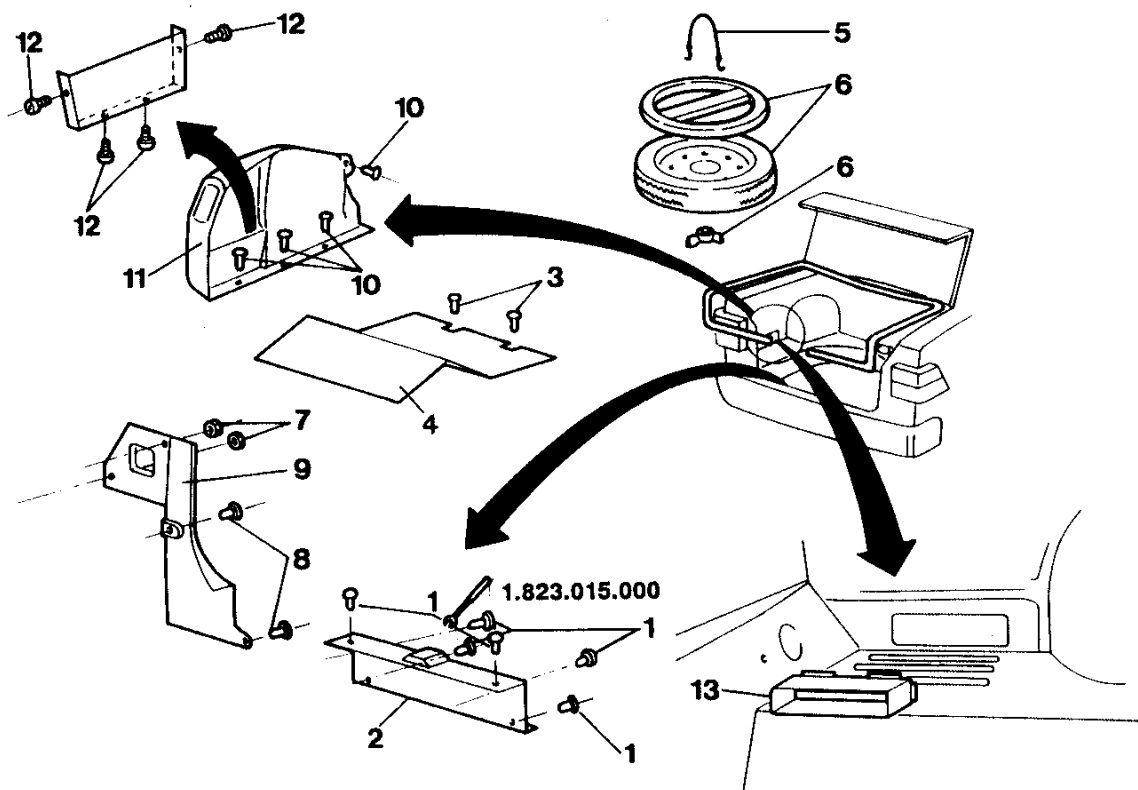
LUGGAGE COMPARTMENT TRIM AND AIR OUTLETS

REMOVAL AND INSTALLATION

- Disconnect the negative lead (-) from the battery.
- 1. Using tool No. 1.823.015.000, remove the six buttons securing the inner luggage compartment protection to the body.
- 2. Remove the protection.
- 3. Using tool No. 1.823.015.000, disconnect the two buttons securing the luggage compartment floor trim.
- 4. Remove the luggage compartment floor trim.
- 5. Remove the elastic band securing the spare wheel to the floor of the luggage compartment.
- 6. Remove the spare wheel from the compartment.
- 7. Unscrew the four caps covering the rear light assemblies.
- 8. Using tool No. 1.823.015.000, remove the four buttons securing the rear side trim to the body.
- 9. Remove the rear side trim panels.
- 10. Remove the ten buttons securing the luggage compartment side trim panels using tool No. 1.823.015.000.
- 11. Remove the side trim panels.
- 12. Unscrew the eight screws and remove the pockets from the side trim.
- 13. Acting on the six tabs, prise off the air outlet covers and remove.



To install, reverse the procedures followed for removal.



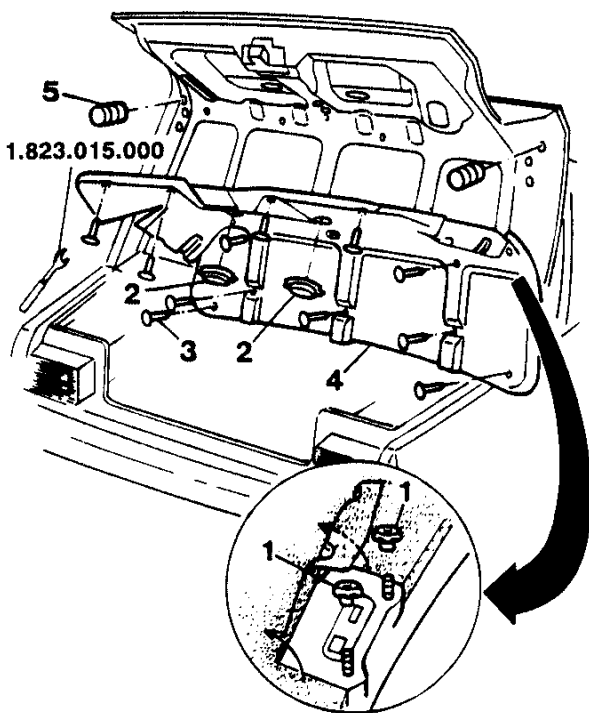
LUGGAGE COMPARTMENT TRIM

REMOVAL AND INSTALLATION

- Disconnect the negative lead (-) from the battery.
- 1. Unscrew the caps from the rear light assemblies (two per light).
- 2. Rotate 90° and remove the numberplate light caps.
- 3. Using tool No. 1.823.015.000, disconnect the twelve buttons securing the interior luggage compartment trim.
- 4. Remove the trim panels.
- 5. Unscrew and remove the two rubber buffers.



To install, reverse the procedures followed for removal.



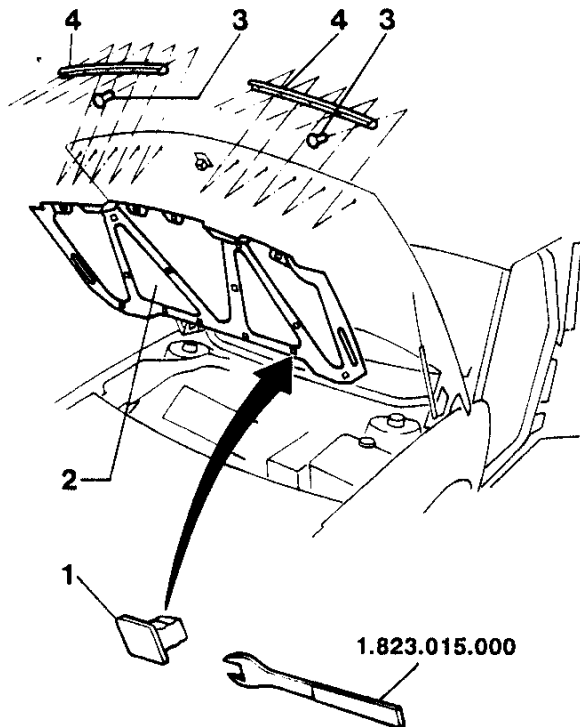
BONNET TRIM

REMOVAL AND INSTALLATION

- Disconnect the negative lead (-) from the battery.
- Open the bonnet.
- 1. Using tool No. 1.823.015.000, remove the twenty-two plastic rivets securing the bonnet trim.
- 2. Remove the bonnet trim.
- 3. Using tool No. 1.823.015.000, remove the ten buttons securing the frontal bonnet seals.
- 4. Remove the two frontal bonnet seals.



To install, reverse the procedures followed for removal.



FRONT SEATS

COMPLETE SEATS

Removal and installation

- Disconnect the negative lead (-) from the battery.
- Slide the seat as far forward as possible.
- 1. If present disconnect the electrical services supply connector on the seat (adjustment, warming, Check Panel sensor detecting fastening of seat belt).
- 2. Unscrew the two screws securing the side cover and remove the cover.
- 3. Unscrew the two rear screws securing the seat tracks to the body.
- Slide the seat as far back as possible.
- 4. Unscrew the two front screws securing the track to the body.
- Disengage and remove the seat by sliding it forward.



To install, reverse the order of the procedures used for removal and note the following:

- Before reconnecting the electrical connectors, check that the electric cables are correctly inserted.
- After refitting the screws securing the seat tracks to the body, tighten them to the specified torque.

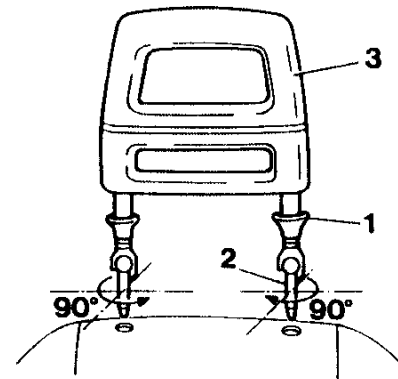
HEADRESTS

Removal and refitting

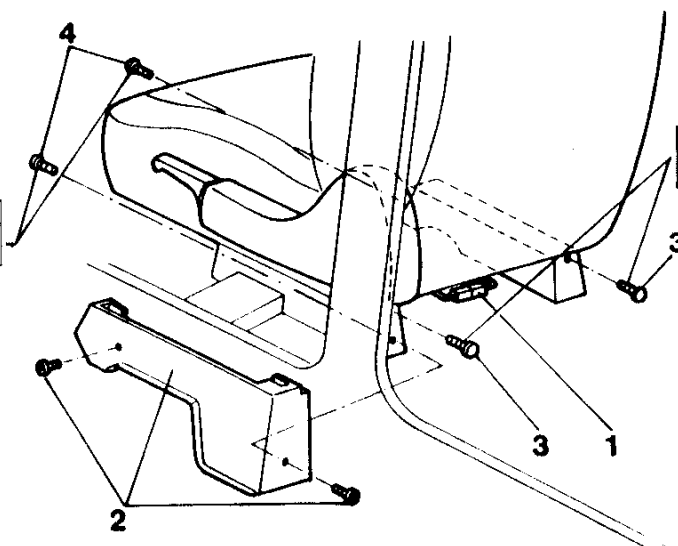
- Raise the headrest.
- 1. Raise the rubber trim of one of the two headrest pins.
- 2. Rotate the headrest pin 90° to disengage the hook securing the pin to its housing in the seat.
- Repeat the operation for the other pin.
- 3. Withdraw the headrest.



To install, repeat the process followed for removal.



26.6 ÷ 32.2 Nm
(2.71 ÷ 3.28 kgm)



26.6 ÷ 32.2 Nm
(2.71 ÷ 3.28 kgm)

SLIDING TRACK CONTROL DEVICE
Removal and refitting

- Remove the seat and take it to a bench (see: COMPLETE SEAT).
- 1. Disengage the sliding track control device retaining springs.



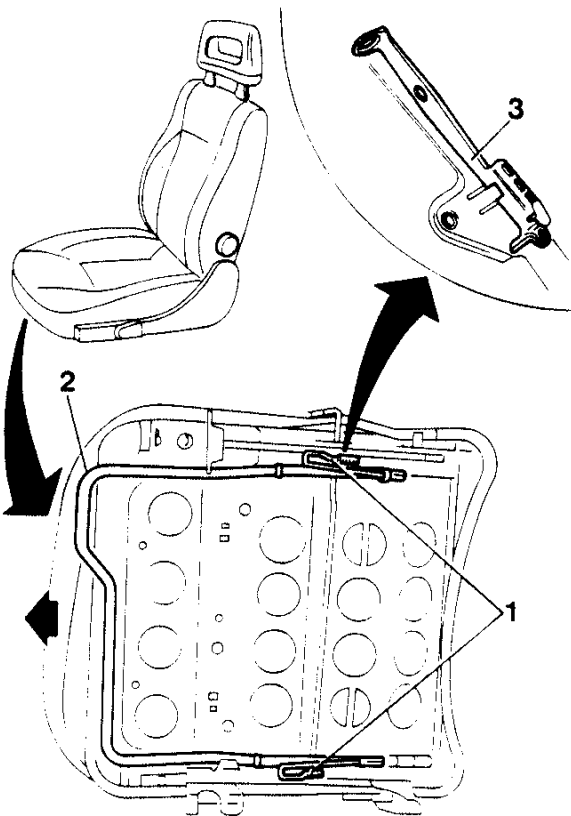
CAUTION:
Perform this operation with great care.

2. Withdraw the sliding track device control rod.
3. Fold the locking bar and remove the sliding track locking mechanism.



To install, reverse the order of the procedures used for removal and note the following:

- For components and/or parts dealt with in other pages of this or other groups, refer to the applicable procedures and instructions (see: COMPLETE SEAT).

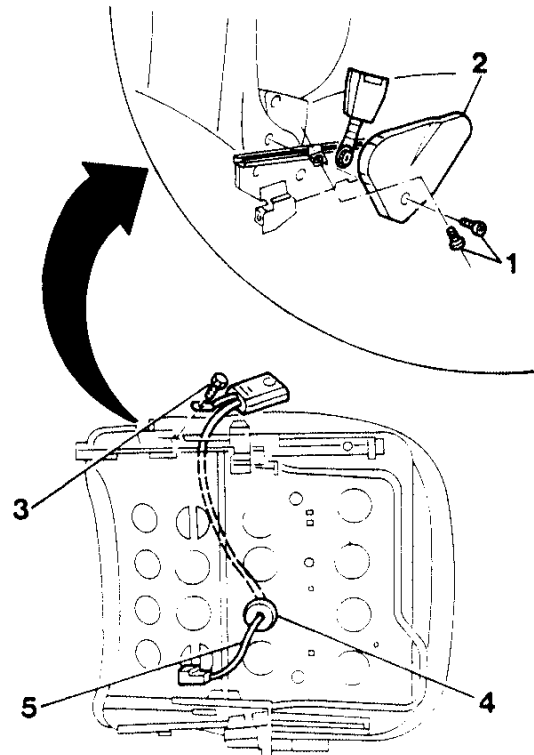

SEAT BELT ATTACHMENTS
Removal and refitting

- Remove the seat and take it to a bench (see: COMPLETE SEAT).
- 1. Unscrew the two screws securing the lower trim seat mouldings on the seat belt attachment side.
- 2. Remove the mouldings.
- 3. Unscrew the screw securing the seat belt attachment.
- 4. Pull off part of the cushion and disconnect the rubber plug fixed to the seat frame.
- 5. Withdraw the Check Panel sensor supply wiring which detects seat belt fastening, and remove the attachment along with the cable.



To install, reverse the order of the procedures used for removal and note the following:

- For components dealt with in other pages of this and other groups, refer to the applicable instructions and procedures (see: COMPLETE SEAT).

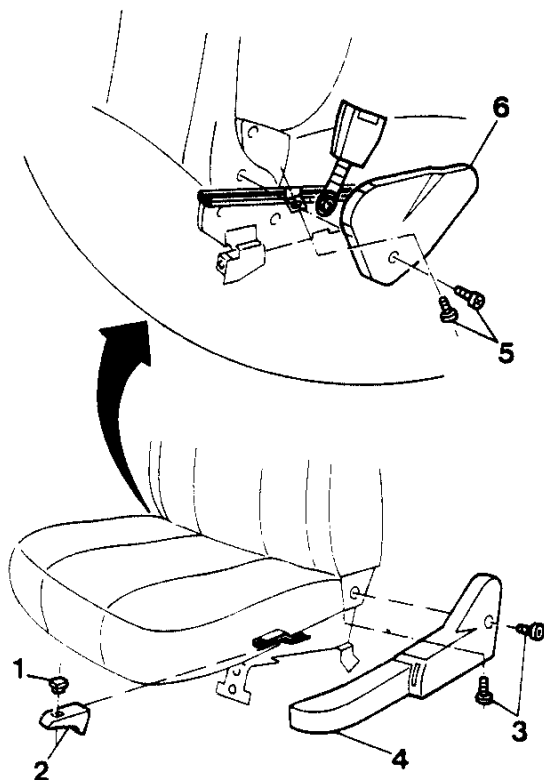




FRONT SEAT TRACKS AND BACKREST TILT CONTROL (manual version)

Removal and refitting

- Remove the seat and take it to a bench (see: COMPLETE SEAT).
- 1. Using a screwdriver, prise out the moulding securing the backrest tilt control trim.
- 2. Withdraw the backrest tilt control trim.
- 3. Unscrew the two screws securing the lower seat trim mouldings on the backrest tilt control side.
- 4. Remove the moulding by sliding it forward.
- 5. Unscrew the two screws securing the lower seat trim mouldings on the side away from the backrest tilt control side.
- 6. Remove the moulding.
- Remove sliding track control device (see: SLIDING TRACK CONTROL DEVICE).

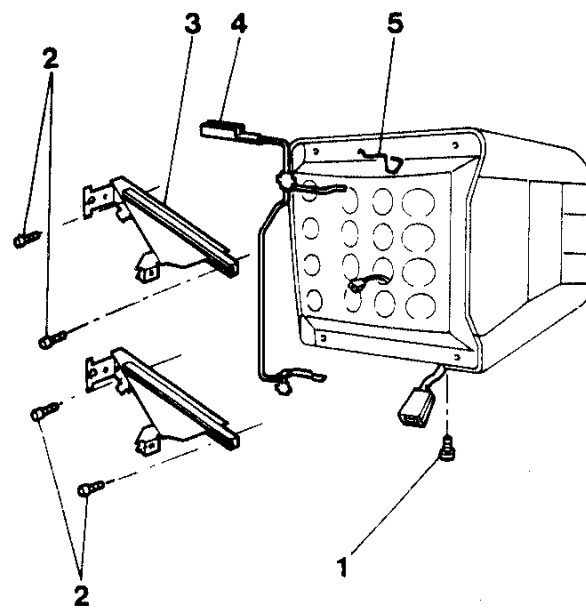


1. Unscrew the screws securing the seat belt attachment.
2. Unscrew the four Allen screws securing the track to the seat frame.
3. Remove the tracks by sliding them from the pin located inside the the seat frame.
4. Remove backrest tilt control.
5. Remove the backrest tilt control lever return clip.



To install, reverse the order of the procedures used for removal and note the following:

- For components dealt with in other pages of this and other groups, refer to the applicable instructions and procedures (see: COMPLETE SEAT; SLIDING TRACK CONTROL DEVICE).
- When refitting, grease the tracks with the specified product.



BACKREST

Removal and refitting

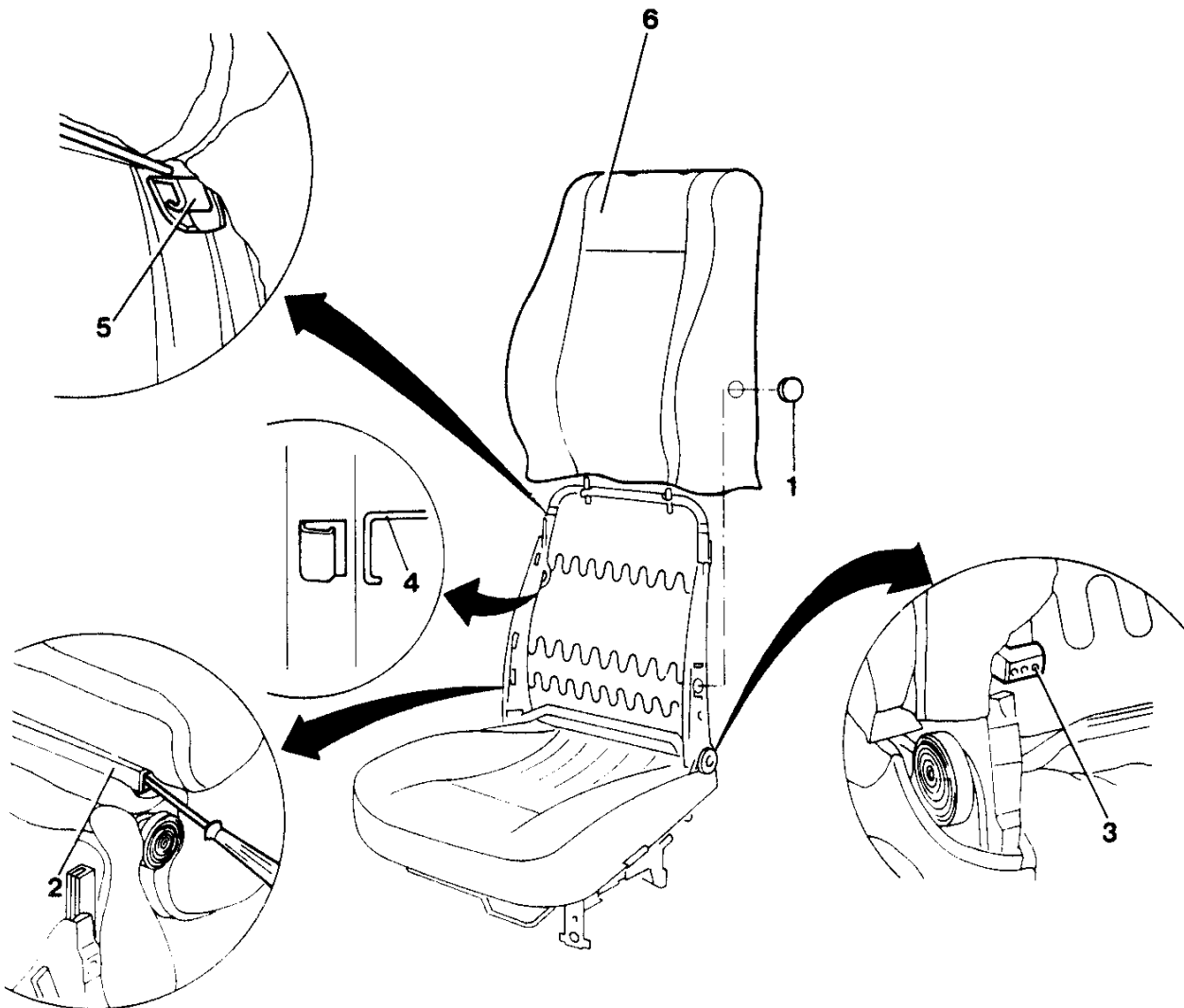
- Remove the seat and take it to a bench (see: COMPLETE SEAT).
 - Remove the headrest (see: HEADRESTS).
 - Remove the lower seat trim mouldings (see: FRONT SEAT TRACKS AND BACKREST TILT CONTROL).
1. If present, remove the backrest stiffening device handle.
 2. Using a screwdriver, remove the attachment edging of the backrest cover.
 3. Disengage the tensioning cables from their seatings and raise the cover along the backrest.

4. Disengage the lateral retaining clip half way up the backrest.
5. Disconnect the backrest tension bar from the retaining clip.
6. Remove backrest cover and padding.



To install, reverse the order of the procedures used for removal and note the following:

- For components dealt with in other pages of this and other groups, refer to the applicable instructions and procedures (see: COMPLETE SEAT; HEADRESTS; SEAT TRACKS AND BACKREST TILT CONTROL).



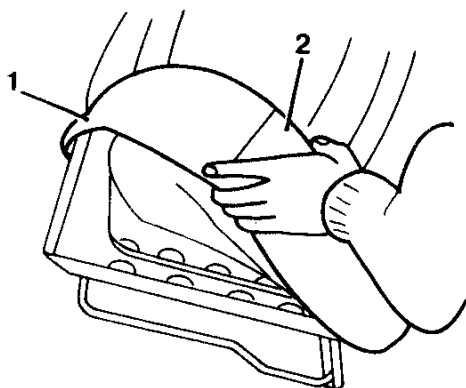
**CUSHION****Removal and refitting**

- Remove the seat and take it to a bench (see: COMPLETE SEAT).
 - Remove the lower trim seat mouldings (see: FRONT SEAT TRACKS AND BACKREST TILT CONTROL).
1. Disengage the seat cover attachment edging along the entire perimeter of the cushion.
 2. Remove the covering and padding of the cushion.



To install, reverse the order of the procedures used for removal and note the following:

- For components dealt with in other pages of this and other groups, refer to the applicable instructions and procedures (see: COMPLETE SEAT FRONT SEAT TRACKS AND BACKREST TILT CONTROL).

**ARMRESTS****Removal and refitting**

NOTE: Only for driver's seat.

- Remove the seat and take it to a bench (see: COMPLETE SEAT).
1. Remove the cap covering the armrest pin.
 2. Unscrew the inner screw of the armrest pin.
 3. Remove the pre-load spring.
 4. Withdraw the pin from the armrest.

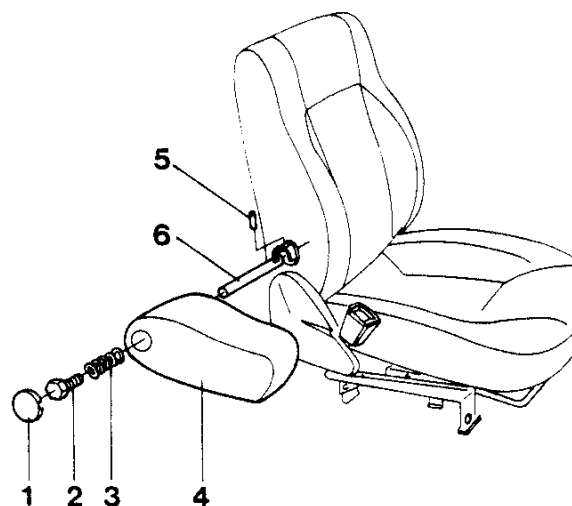
5. Using an adequate punch, withdraw the flexible pin from the seat frame.

6. Remove the armrest pin.



To install, reverse the order of the procedures used for removal and note the following:

- For components dealt with in other pages of this and other groups, refer to the applicable instructions and procedures (see: COMPLETE SEAT).



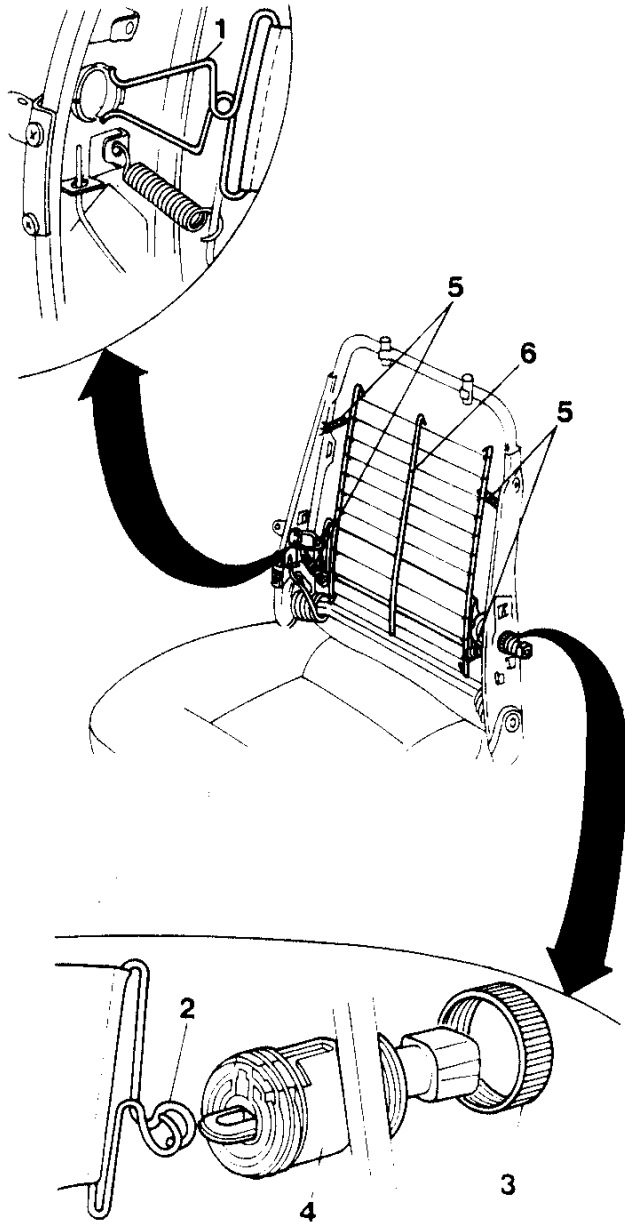
**BACKREST STIFFENING DEVICE AND FRAME****Removal and refitting**

- Remove the seat and take it to a bench (see: COMPLETE SEAT).
 - Completely slacken the lumbar stiffening device.
 - Remove the backrest (see: BACKREST).
1. Disengage the spring securing the device to the seat frame on the side opposite the adjusting handle.
 2. Disengage the spring securing the device to the adjusting block and remove the stiffening band.
 3. Unscrew the ring nut securing the block to the seat frame.
 4. Remove the block.
 5. Disengage the four springs securing the frame.
 6. Remove backrest frame.



To install, reverse the procedure followed for removal.

- For components dealt with in other pages of this and other groups, refer to the applicable instructions and procedures (see: COMPLETE SEAT; BACKREST).



REAR SEATS (single seat version)

REMOVAL AND REFITTING

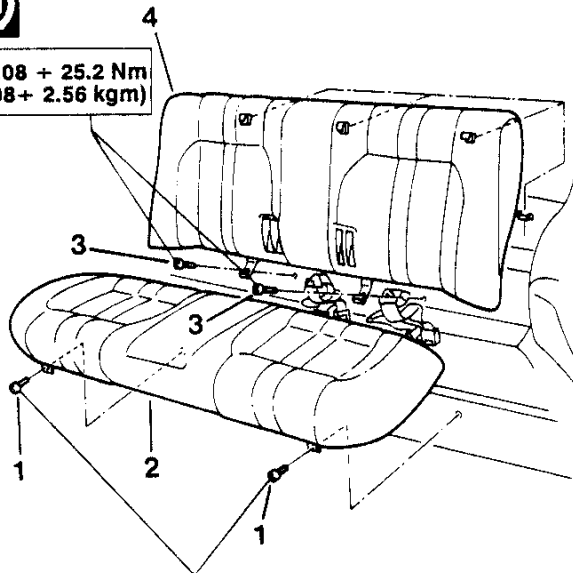
1. Unscrew the two screws securing the seat to the vehicle platform.
2. Disengage the seat from the bracket located on the lower part of the backrest and remove it.
3. Unscrew the two screws securing the backrest to the platform.
4. Disengage the backrest hooks from the seatings on the rear shelf and remove the backrest.



To install, reverse the procedures followed for removal.



2.08 + 25.2 Nm
(2.08 + 2.56 kgm)



2.08 + 25.2 Nm
(2.08 + 2.56 kgm)

ARMREST

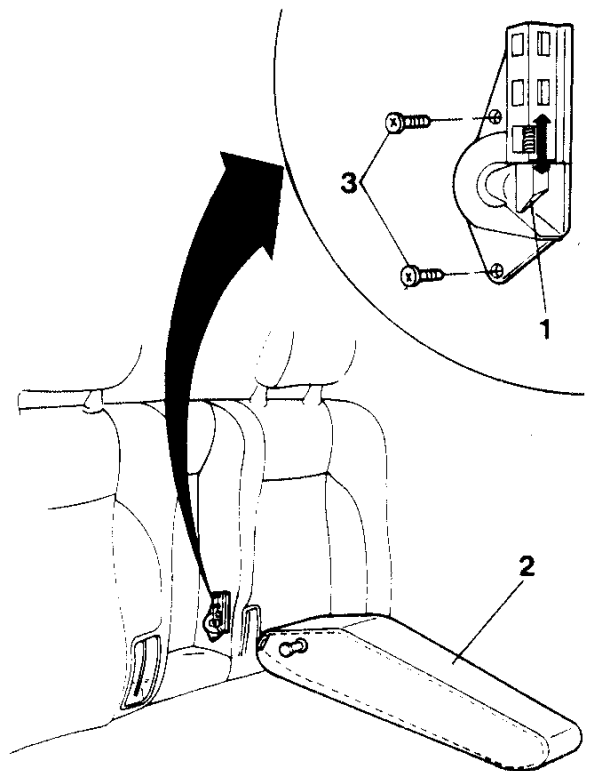
Removal and refitting

1. Using a screwdriver, raise the locking pins of the armrest.
2. Remove the arm rest.
3. Unscrew the four screws securing the pin seatings to the backrest and remove the seatings.



To install, reverse the procedure followed for removal.

PA4655D100000



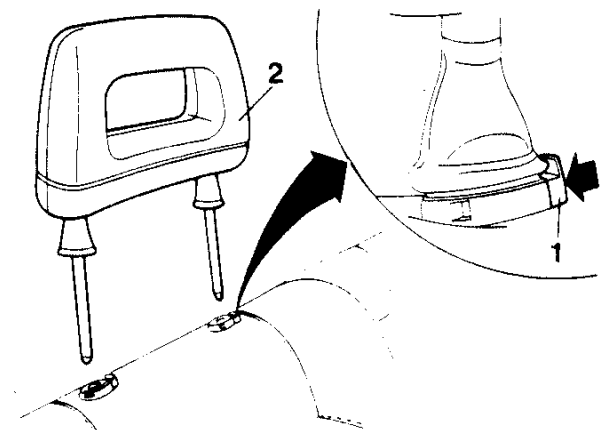
HEADRESTS

Removal and refitting

1. Press on the pin locking devices and disengage them.
2. Remove the headrest.



To install, reverse the procedure followed for removal.





REAR SEATS (split seat version)

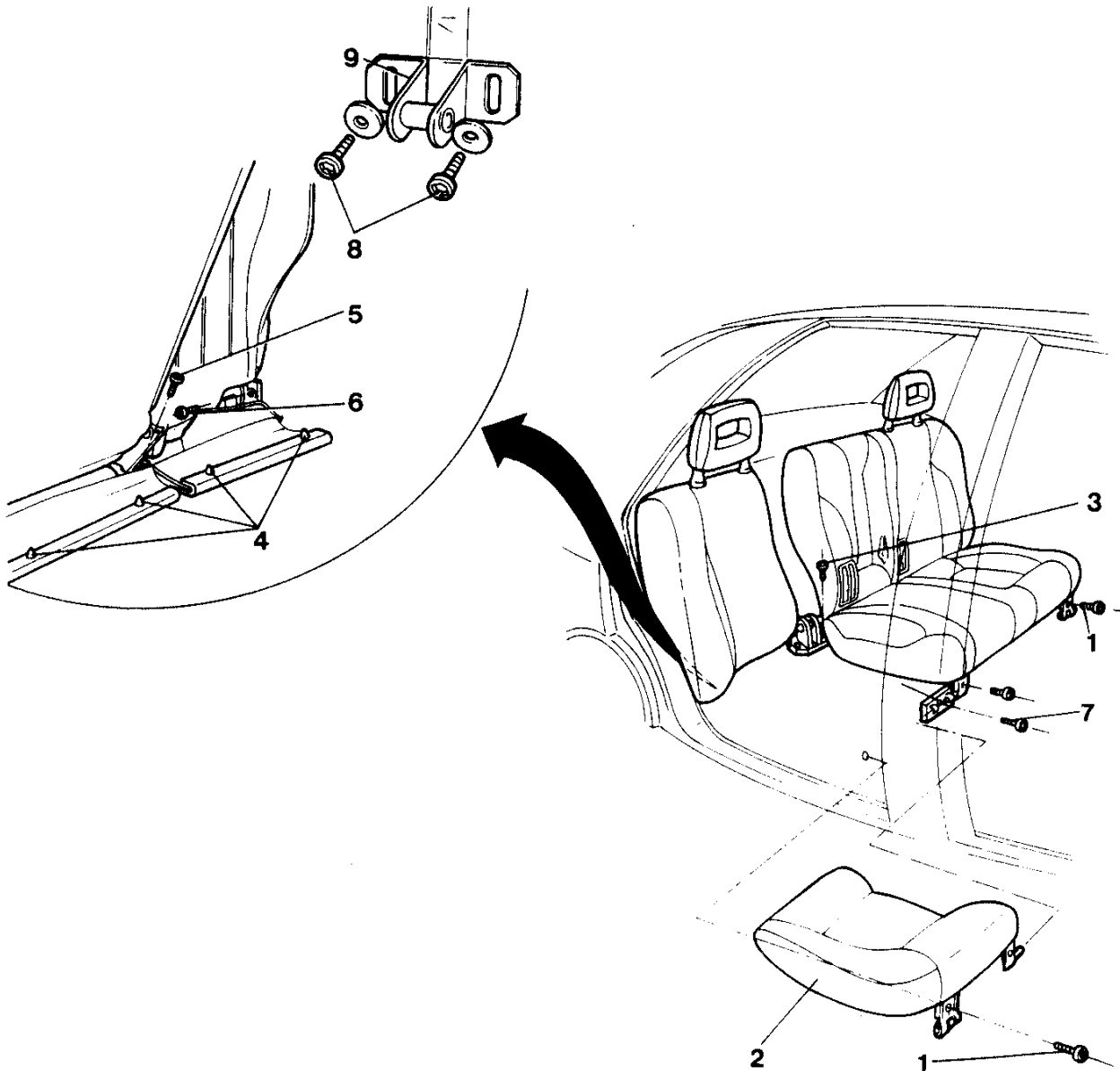
REMOVAL AND REFITTING

1. Unscrew the two screws securing the seat hinges (outer side of vehicle) to the platform.
2. Remove the seats by withdrawing the pins from the hinges on the inner side of the vehicle.
3. Unscrew the screw securing the backrest central hinge to the platform (passenger compartment side).
4. Tip the backrests and remove the five buttons securing the luggage compartment trim to the backrests.

5. Unscrew the screw securing the backrest central hinge to the platform (luggage compartment side).
6. Unscrew the two screws securing the hinge on the outer side of the vehicle to the wheel housing and remove the backrests.
7. Unscrew the screw securing the central seat hinge to the platform and remove the hinge.
8. Unscrew the four screws securing the backrest retaining pins.
9. Remove the pins.



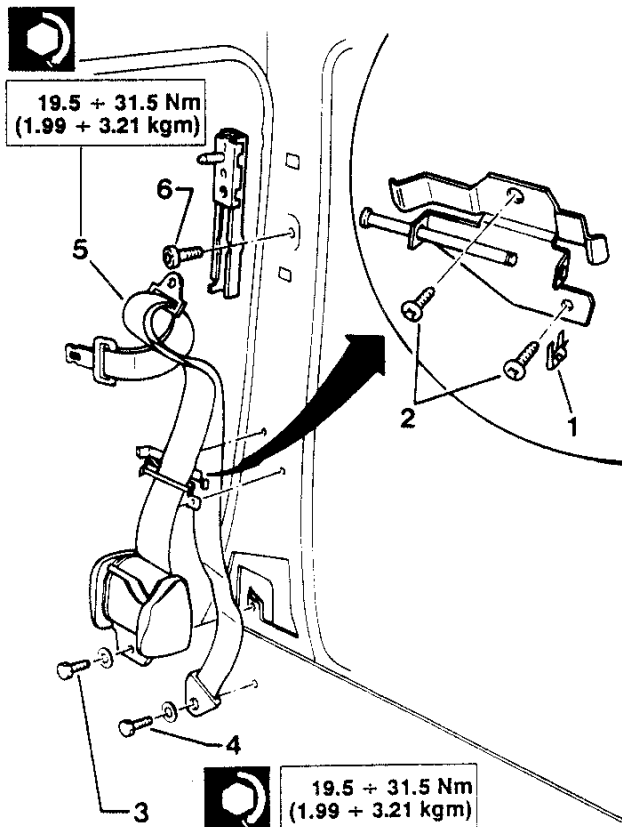
To install, reverse the procedure followed for removal.



FRONT SEAT BELTS

REMOVAL AND INSTALLATION

- Disconnect the negative lead (-) from the battery.
 - Remove the central pillar trim (see: CENTRAL PILLAR TRIM).
1. Withdraw the clip securing the pin and withdraw the pin separating the seat belt from the attachment.
 2. Unscrew the two screws and remove the barcket.
 3. Slide the seat as far forward as possible unscrew the screw securing the reel to the central pillar.
 4. Unscrew the screw securing the lower belt attachment to the platform.
 5. Remove the seat belt.
 6. Unscrew the crosshead screw securing the adjustable support to the central pillar and remove the support.



To install, reverse the order of the procedures used for removal and note the following:

- For components dealt with in other pages

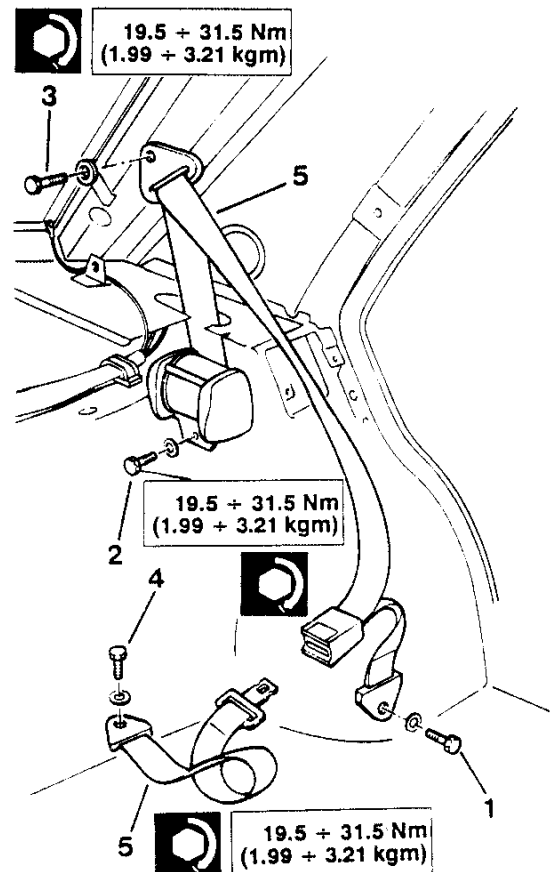
of this and other groups, refer to the applicable instructions and procedures (see: CENTRAL PILLAR TRIM).

- After refitting the bolts securing the seat belts, tighten them to the specified torque.

REAR SEAT BELTS

REMOVAL AND INSTALLATION

- Remove the right or left hand rear seat as required (for split rear seat versions) or remove the complete rear seat (normal versions) (see: REAR SEATS).
1. Unscrew the screw securing the seat belt to the wheel housing.
 - Remove the rear pillar trim (see: REAR PILLAR TRIM).
 2. Operating inside the luggage compartment unscrew the screws and disconnect the reel from the body.
 3. Operating inside the vehicle unscrew the screws securing the belt to the rear pillar.
 4. Unscrew the screw securing the belt to the vehicle platform.
 5. Remove the complete seat belt.





To install, reverse the procedures employed for removal and note the following:

- For components dealt with in other pages of this and other groups, refer to the applicable instructions and procedures (see: REAR SEATS, REAR PILLAR TRIM).
- After removing the bolts securing the seat belts, tighten them to the prescribed torque.

CENTRAL TUNNEL CONSOLE

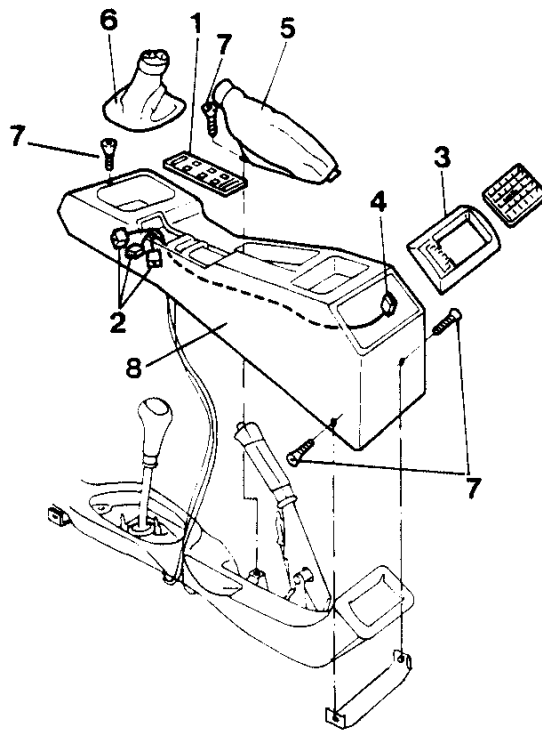
REMOVAL AND INSTALLATION

- Disconnect the negative lead (-) from the battery.
- 1. Remove the central tunnel pushbutton moulding.
- 2. Disconnect the connectors from the pushbutton pad.
- 3. Remove the rear air vent.
- 4. Disconnect the air vent lamp supply connector.
- 5. Remove the handbrake trim.
- 6. Remove the gearlever trim.
- 7. Unscrew the four screws securing the console to the tunnel.
- 8. Remove the tunnel console.



To install, reverse the order of the procedures used for removal and note the following:

- Before reconnecting the electrical connectors, check that the electric cables are correctly inserted.

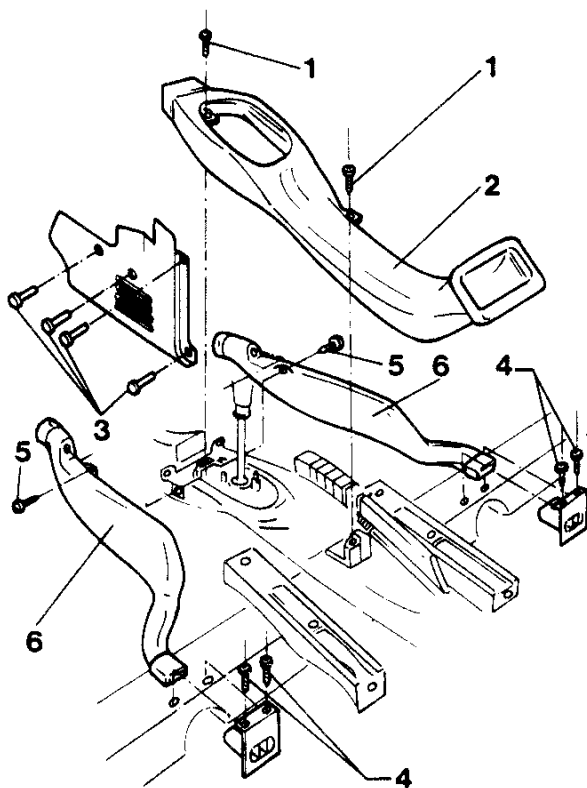




TUNNEL AIR VENTS

REMOVAL AND INSTALLATION

- Disconnect the negative lead (-) from the battery.
- Remove the central tunnel console (see: CENTRAL TUNNEL CONSOLE).
- 1. Unscrew the two screws securing the tube under the tunnel to the floor.
- 2. Remove the tube sliding it off the under dashboard connection.
- 3. Unscrew the eight screws securing the bulkhead air vent under the dashboard.
- Remove the front seats (see: COMPLETE FRONT SEATS).
- 4. Unscrew the four screws securing the rear air vents and remove the vents.
- Remove the floor trim in order to gain access to the lateral pipes.
- 5. Unscrew the two screws securing the lateral rear air pipes.
- 6. Remove the lateral pipes.



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To install, reverse the procedures followed for removal observing the following:

- For components dealt with in other pages of this and other groups, refer to the applicable instructions and procedures (see: CENTRAL TUNNEL CONSOLE; COMPLETE FRONT SEATS).

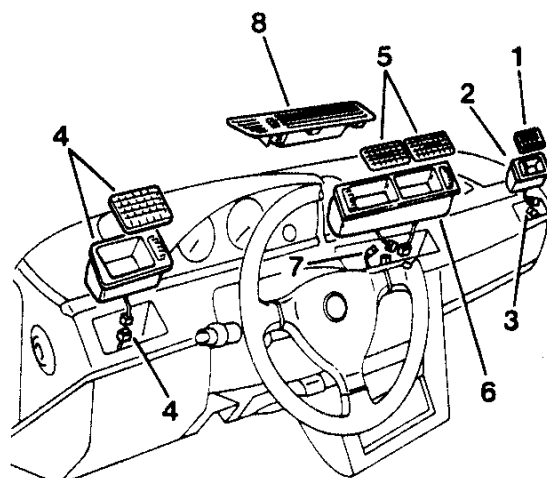
DASHBOARD AIR VENTS

REMOVAL AND INSTALLATION

- Disconnect the negative lead (-) from the battery.

NOTE: Use tool No. 1.823.014.000 as a lever and act on the tabs securing the air vents.

1. Operating on the right-hand side of the dashboard, prise off the deflector grill.
2. Remove the air vent by applying leverage to the tabs on the air vent.
3. Disconnect the air vent lamp supply connector.
4. Operate in the same fashion for the left-hand vent.
5. Remove the deflector grill by applying leverage to the tabs.
6. Apply leverage to the tabs securing the central air vents to the dashboard and remove the vents.
7. Disconnect the air vent lamp supply connector.
8. Apply leverage and remove the upper dashboard vent.



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To install, reverse the order of the procedures used for removal and note the following:

- Before reconnecting the electrical connectors, check that the electric cables are correctly inserted.

GLOVEBOX

REMOVAL AND INSTALLATION

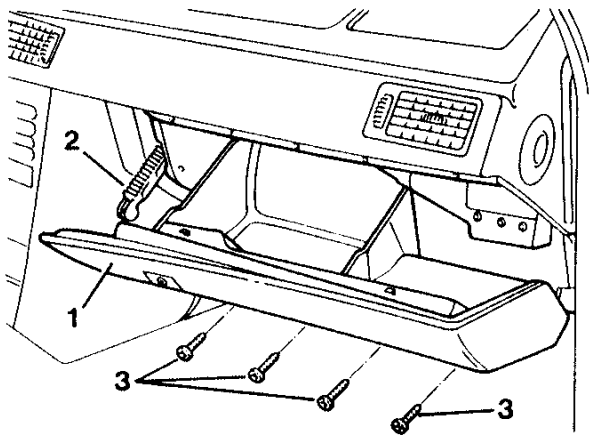
- Disconnect the negative cable from the battery.
- Working from the passenger side:

1. Open the glovebox.
2. Unhook the rack supporting the glovebox.
3. Close the glovebox, unscrew the four outer screws securing the glovebox to the dashboard and remove the glovebox.



Refit by reversing the procedure followed for removal and:

- before reconnecting the electrical connectors check that the electrical cables are correctly fitted into them.



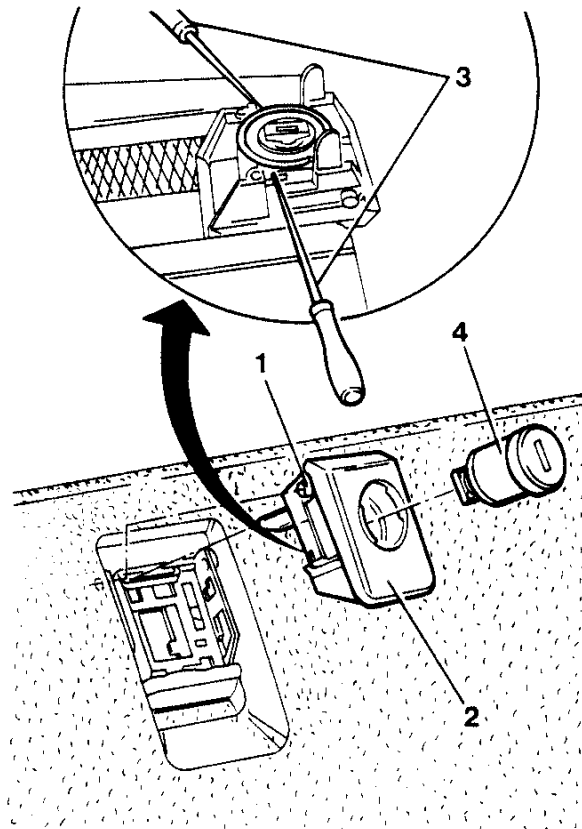
GLOVEBOX LID LOCK

REMOVAL AND INSTALLATION

1. Raise the glovebox handle and, by means of a small screwdriver, remove the pins securing handle to lid.
2. Remove the handle.
3. By means of two drifts, act on the two retainers of lid lock.
4. Remove the lid lock.



Refit by reversing the order of removal.



INSTRUMENT PANEL

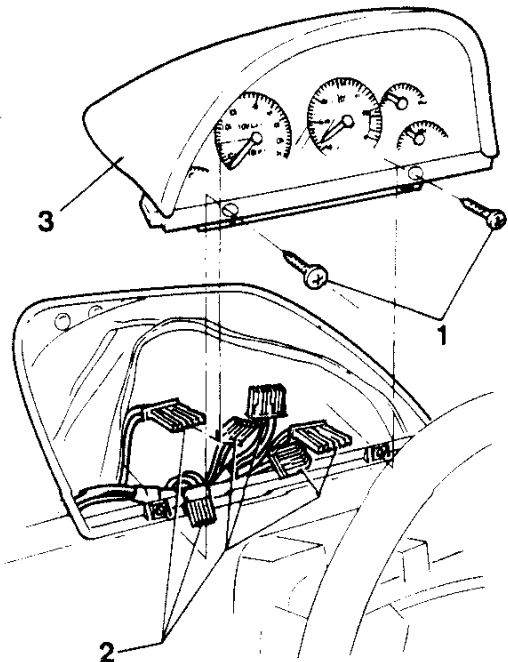
REMOVAL AND INSTALLATION

- Disconnect the negative lead (-) from the battery.
- 1. Unscrew the two allen screws securing the instrument panel to the upper dashboard.
- Move the panel from its housing.
- 2. Disconnect the instrument supply cables.
- 3. Remove the instrument panel.



To install, reverse the order of the procedures used for removal and note the following:

- Before reconnecting the electrical connectors, check that the electric cables are correctly inserted.



CENTRAL CONSOLE AND UNDERDASHBOARD TRIM

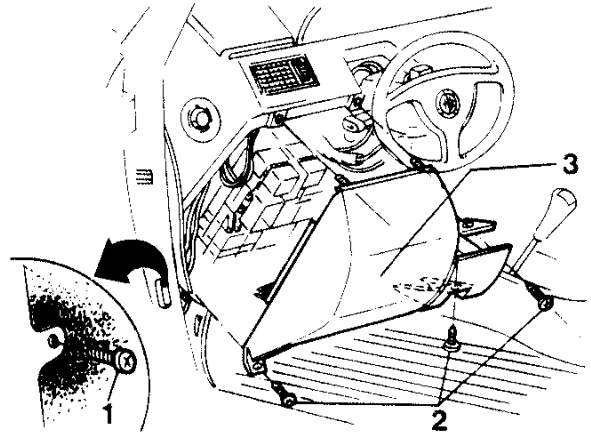
REMOVAL AND INSTALLATION

- Disconnect the negative lead (-) from the battery.
- Remove central tunnel console (see: CENTRAL TUNNEL CONSOLE).
- Remove the steering column cowl (see: STEERING COLUMN COWL).

Operating on the driver's side:

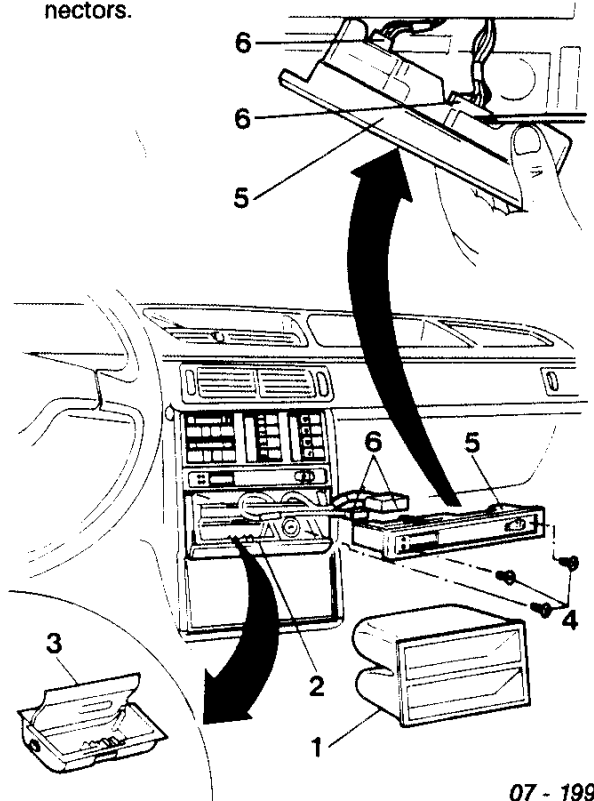
1. Unscrew the lower screw securing the front pillar trim.

2. Move the front pillar trim and unscrew the three screws securing the fuse box protection cover.
3. Remove the protective panel covering the valves, withdrawing the two pins from the seatings on the upper dashboard trim.



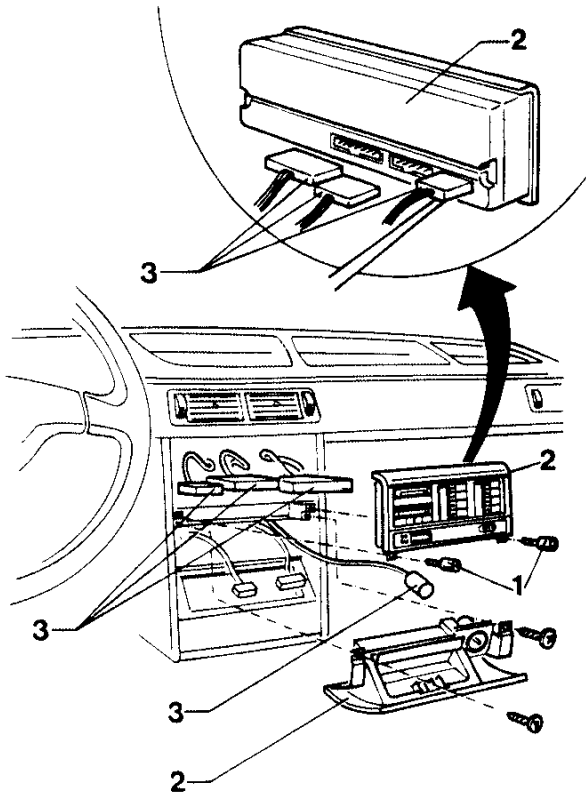
Operating on the passenger side:

1. Remove the radio compartment.
2. Open the cigar-lighter/ashtray cover.
3. Remove the ashtray.
4. Unscrew the three screws located in the ashtray compartment which secure the Check Panel/clock moulding.
5. Remove the Check Panel/clock assembly.
6. Disconnect the two Check Control/clock supply connectors.



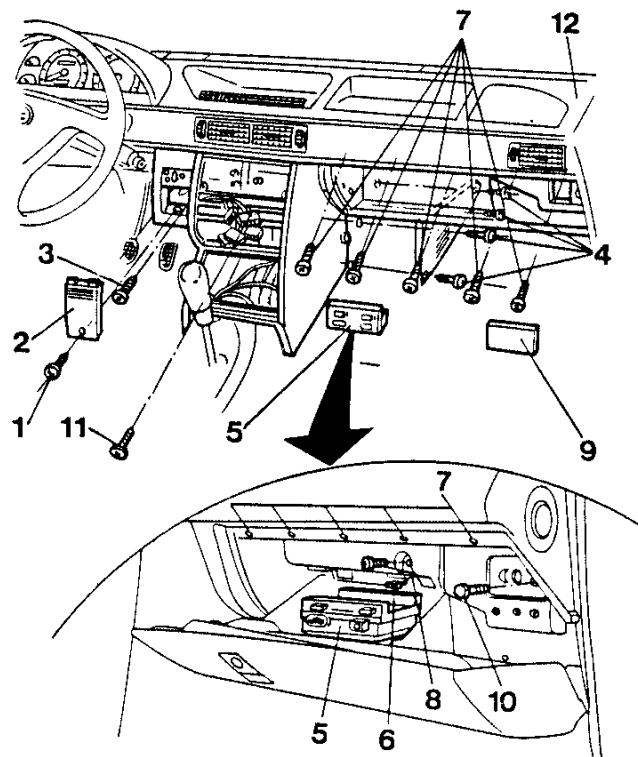


1. Unscrew the two screws securing the cigar-lighter/ashtray cover.
2. Remove the cigar-lighter/ashtray cover and pushbutton control unit.
3. Disconnect the three control unit connectors and the cigar-lighter connector.



1. Unscrew the screw securing the passenger compartment temperature probe panel.
2. Remove the panel.
3. Unscrew the screw located in the temperature probe compartment which secures the lower dashboard trim to the front crossmember.
 - Unscrew the four screws (left side of console) securing the air vent moulding and remove the moulding.
4. Unscrew the four screws (right side of console) securing the air vent moulding and remove the moulding.
 - Open the glovebox.
5. Disconnect the four clips of the boot release control and glovebox compartment lighting and remove the control from its housing.

6. Disconnect the boot release control connector and remove the boot lid release control/glovebox compartment lighting block.
7. Unscrew the five screws securing the underdashboard trim to the front crossmember.
8. Unscrew the screw securing the underdashboard trim to the crossmember.
9. Applying leverage with a screwdriver, remove the cover located on the dashboard.
10. Remove the cover and unscrew the screw securing the dashboard to the front crossmember.
11. Operating from the control unit compartment, unscrew the central screw securing the lower dashboard.
12. Remove the lower dashboard.





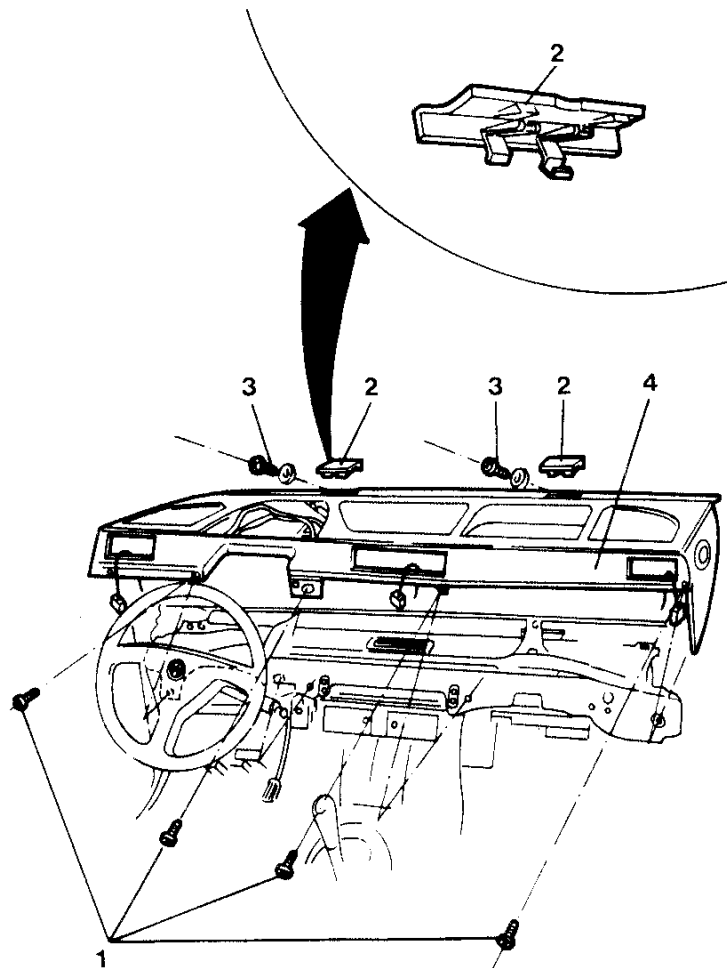
To install, reverse the procedure.

- For components dealt with in other pages of this and other groups, refer to the applicable instructions and procedures (see: CENTRAL TUNNEL CONSOLE; STEERING COLUMN COWL).
- Before reconnecting the electrical connectors, check that the electric cables are correctly inserted.

DASHBOARD

REMOVAL AND INSTALLATION

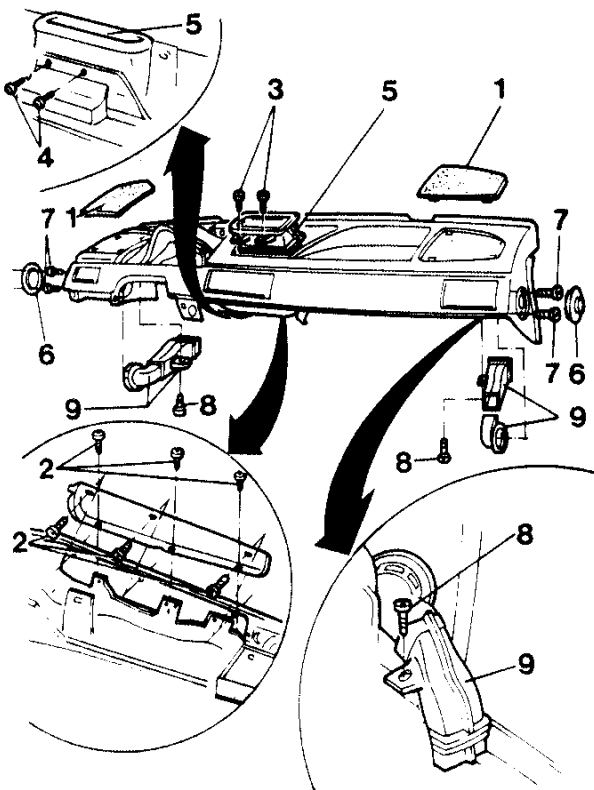
- Disconnect the negative lead (-) from the battery.
 - Remove underdashboard trim (see: CENTRAL CONSOLE AND UNDERDASHBOARD TRIM).
 - Remove the instrument panel (see: INSTRUMENT PANEL).
 - Remove the air vents (see: DASHBOARD AIR VENTS).
1. Unscrew the four screws securing the dashboard.
 2. Operating with a screwdriver, remove the caps from the upper screws securing the dashboard.
 3. Unscrew the two upper screws securing the dashboard.
 4. Remove the upper dashboard through the passenger side front door and take it to the bench.





On the bench:

1. Operating with a screwdriver, remove the speaker protection at the sides of the dashboard.
2. Unscrew the six screws securing the rear strip of the glovebox door housing.
3. Acting from the external side of the dashboard, unscrew the two screws securing the front grill air intake.
4. Acting from inside the dashboard unscrew the two remaining screws securing the front grill air intake.
5. Remove the air intake.
6. Remove the door window demister air vent moulding.
7. Unscrew the four screws securing the door window demister air vent supply duct.
8. Unscrew the two screws securing the internal element of the door window demister air vent supply duct.
9. Remove the duct components.



To Install, reverse the order of the procedures used for removal and note the following:

- For components dealt with in other pages of this and other groups, refer to the applicable instructions and procedures (see: CENTRAL CONSOLE AND UNDERDASHBOARD TRIM; DASHBOARD AIR VENTS; INSTRUMENT PANEL).
- Before reconnecting the electrical connectors, check that the electric cables are correctly inserted.

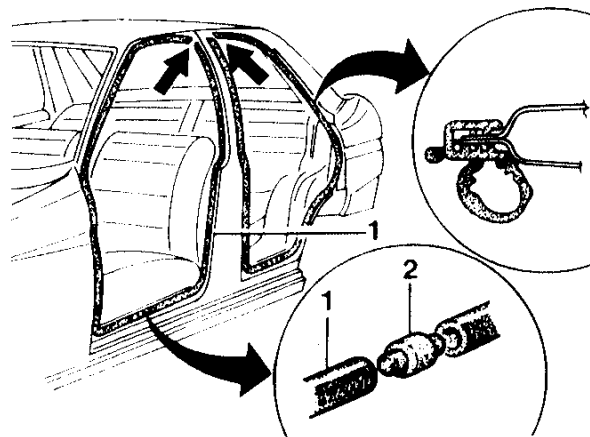
DOOR SEALS

REMOVAL AND INSTALLATION

1. Pull off the door seal from the door opening, beginning from the join.
- Install the new seal on the rim of the door frame beginning from the upper rear corner (front doors) or from the upper front corner (rear doors) (corresponding to the mark on seal) and proceeding around the frame.

NOTE: Carry out the operation using a rubber mallet, paying attention to avoid damaging the seal when inserting it between the rim and the components fixed near to it (heel plate, pillar trim, roof panel).

- Trim off the excess parts from the seal.
- 2. Install the joint at the ends of the seal.



LUGGAGE COMPARTMENT SEAL

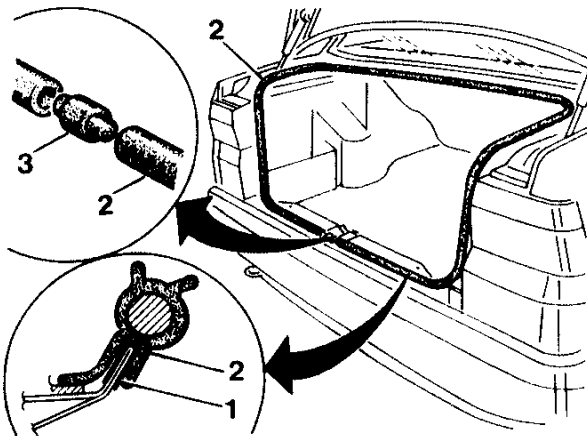
REMOVAL AND INSTALLATION

- Remove the seal, beginning from the join.

 1. Position the seal on the rim, beginning from the area near the seal locator.
 2. Slide the seal over the rim beginning in the area around the door catch.

 - Trim off the excess parts of the seal.
 - Spread acrylic sealant on the seal joint.

 3. Install the joint at the ends of the seal.



FRONT SILL BOARDS

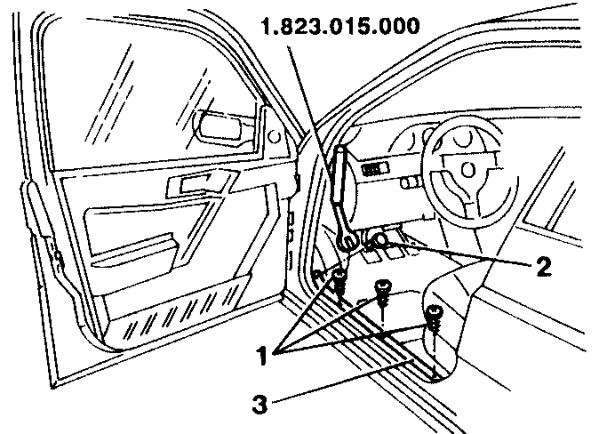
REMOVAL AND INSTALLATION

1. Unscrew the three screws which secure front sill board to bed.
2. By means of tool No. 1.823.015.000 detach the button which secures sill board to front pillar.

3. Remove the front sill board.



Install by reversing the order of removal.



REAR SILL BOARDS

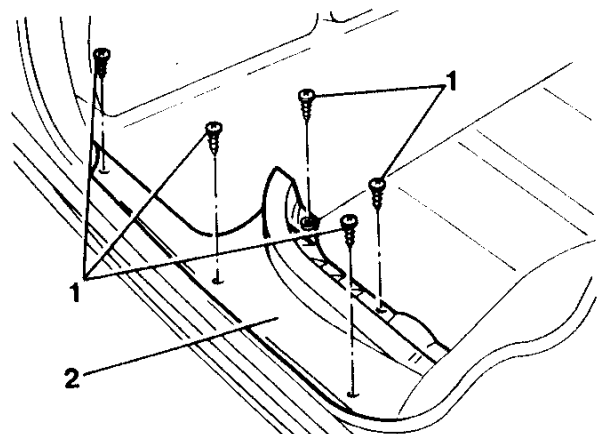
REMOVAL AND INSTALLATION

- Remove the rear bench-seat (for the bench-type rear seat version), or the rear seats (for the split-type rear seats) (refer to: REAR SEATS).

 1. Unscrew the five screws which secure rear sill board to bed.
 2. Remove the rear sill board.



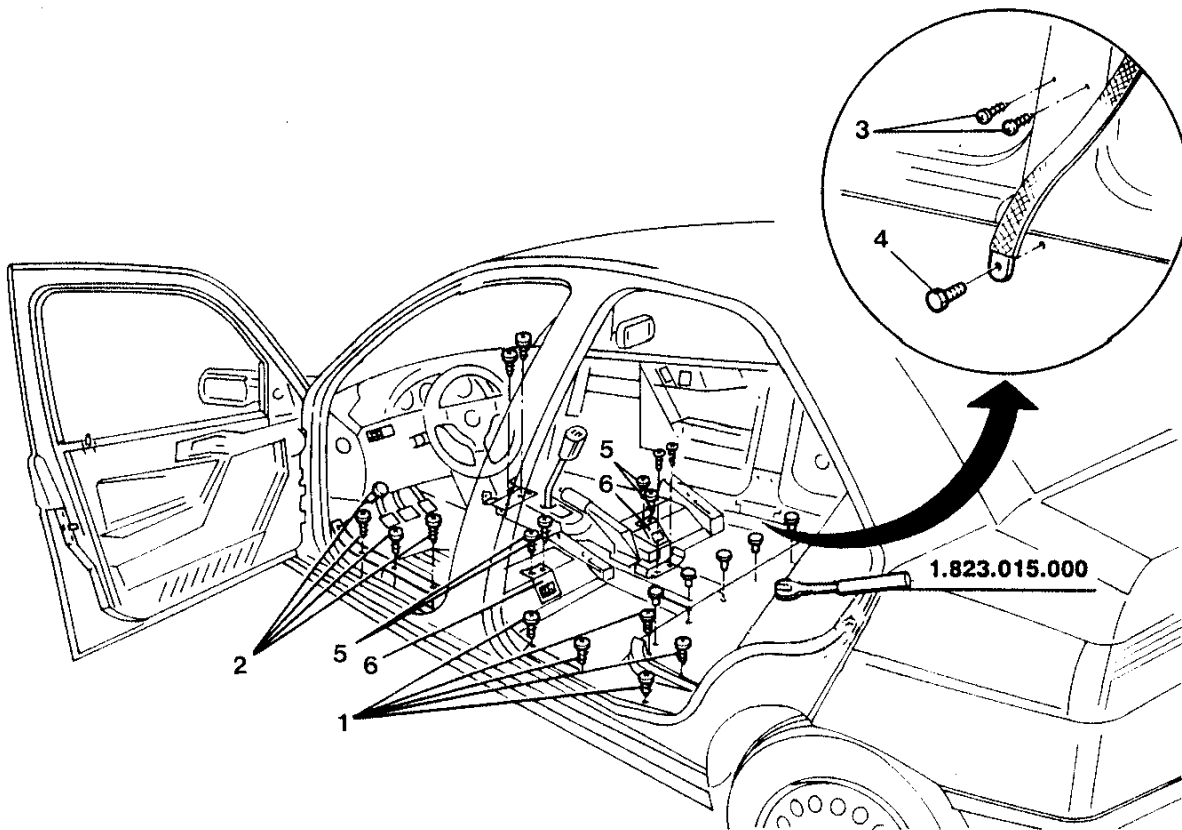
Install by reversing the order of removal.



FLOOR TRIM

REMOVAL AND INSTALLATION

- Disconnect the negative load (-) from the battery.
 - Remove the front seats (see: FRONT SEATS).
 - Remove the rear bench seat (models with a single rear seat) or the complete rear seats (models with separate rear seats) (see: REAR SEATS).
1. Loosen the five screws securing one of the rear finishing strips to the floor and remove it.
 - Proceed likewise for the other finishing strip.
 2. Loosen the three screws and disconnect the button securing one of the front finishing strips to the floor and remove it.
 - Proceed likewise for the other front finishing strip.
 3. Loosen the two screws securing one of the lower central pillar coverings and remove the covering.
 - Proceed likewise for the other covering.
 - Remove the central tunnel console (see: CENTRAL TUNNEL CONSOLE).
 - Remove the air vent from the tunnel (see: TUNNEL AIR VENT).
 4. Loosen the two screws securing the front seatbelts to the floor panel.
 5. Loosen the two screws securing the rear air vent.
 6. Remove the air vent by sliding it off the air ducts located under the floor trim.
 - Proceed likewise for the other air vent.





1. Loosen the two screws securing the central tunnel console front bracket to the floor and remove the bracket.
2. Loosen the two screws securing the central tunnel console rear bracket to the floor and remove it.
3. Using tool 1.823.015.000 detach the five buttons securing the floor trim to the floor.
4. Remove the trim from the vehicle.
 - Remove the IAW control unit (see: GR. 43 - ELECTRICAL AND ELECTRONIC COMPONENTS).
 - Remove the central console and trim below dashboard (see: CENTRAL CONSOLE AND TRIM UNDER DASHBOARD).

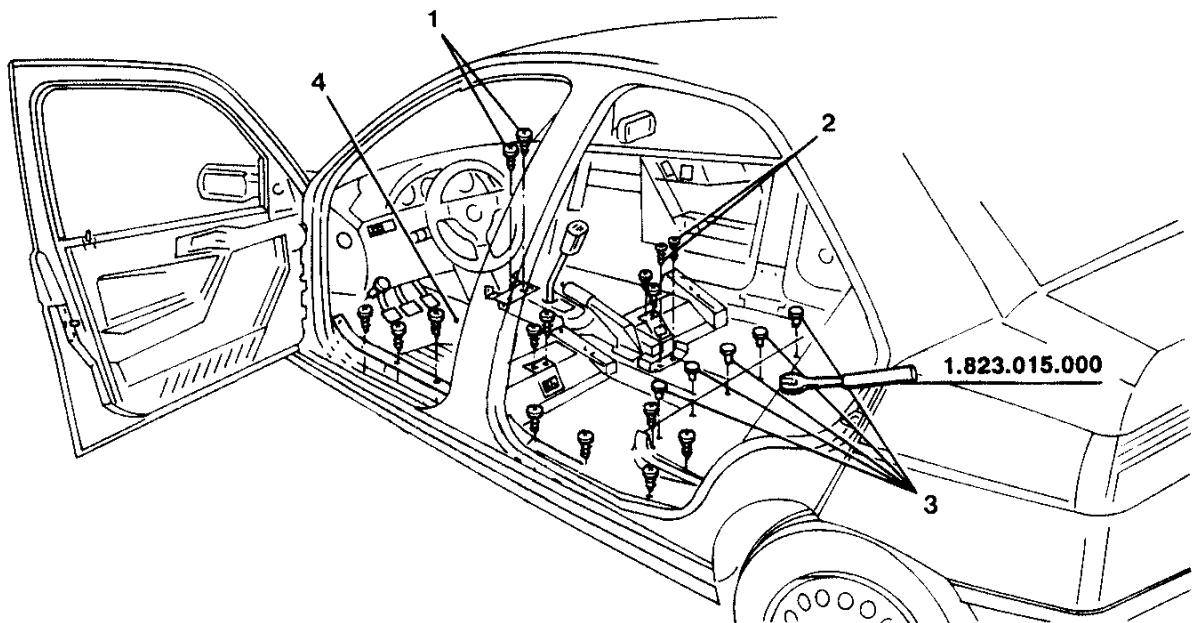
Working from the engine compartment:

- Remove the relay box clamp (see: GR. 43 - ELECTRICAL AND ELECTRONIC COMPONENTS).
- Remove the heating-ventilation unit (see: GR. 80 - HEATING AND VENTILATION).
- Remove the floor trim beginning from the pedal unit.



Refit by reversing the procedure followed for removal and:

- For components and/or parts dealt with in other pages or in other groups refer to these for refitting operations and advice.
- After refitting the bolts securing the seatbelts, tighten them to the correct torque.



STEERING COLUMN COWL

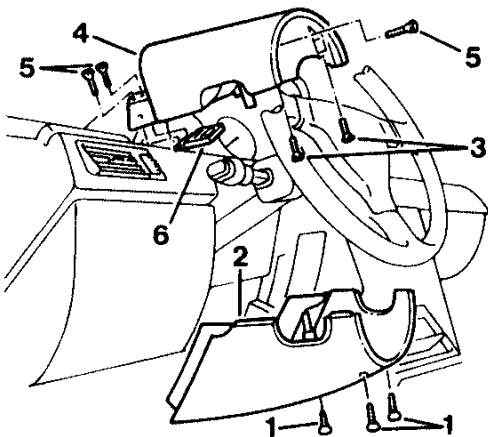
REMOVAL AND INSTALLATION

- Disconnect the negative lead (-) from the battery.
- Loosen the steering wheel position adjustment device.
- 1. Unscrew the three screws securing the steering column lower cowling.
- 2. Remove the cowling.
- 3. Unscrew the two screws securing the steering column upper cowling.
- 4. Disconnect the dashboard lighting dimmer rheostat connector and remove the cowl.
- 5. Unscrew the three screws securing the rheostat.
- 6. Remove the rheostat.



To install, reverse the order of the procedures used for removal and note the following:

- Before reconnecting the electrical connectors, check that the electric cables are correctly inserted.



TECHNICAL CHARACTERISTICS AND SPECIFICATIONS

GENERAL SPECIFICATIONS

FLUIDS AND LUBRICANTS

APPLICATION	TYPE	NAME
- Seat rails - Gaskets	GREASE SILICONE LUBRICATING SPRAY	AMECÓ - OPTIMOL Optimoly - Paste White T COMPOUND. 7 Rhône - Poulene Chimica S.p.A.

TIGHTENING TORQUES

Description	N·m	kg·m
Screws securing front seat belts	19.5 - 31.5	1.99 - 3.21
Screws securing front seat rails to floor	26.6 - 32.2	2.71 - 3.28
Screws securing rear seat belts	19.5 - 31.5	1.99 - 3.21
Screws securing rear seats to floor	2.08 - 25.2	2.08 - 2.56

SPECIFIC TOOLS

TOOL NUMBER	DESCRIPTION
1.823.014.000	Puller for plastic parts
1.823.015.000	Puller for plastic buttons

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EXTERNAL TRIM

FRONT BUMPER

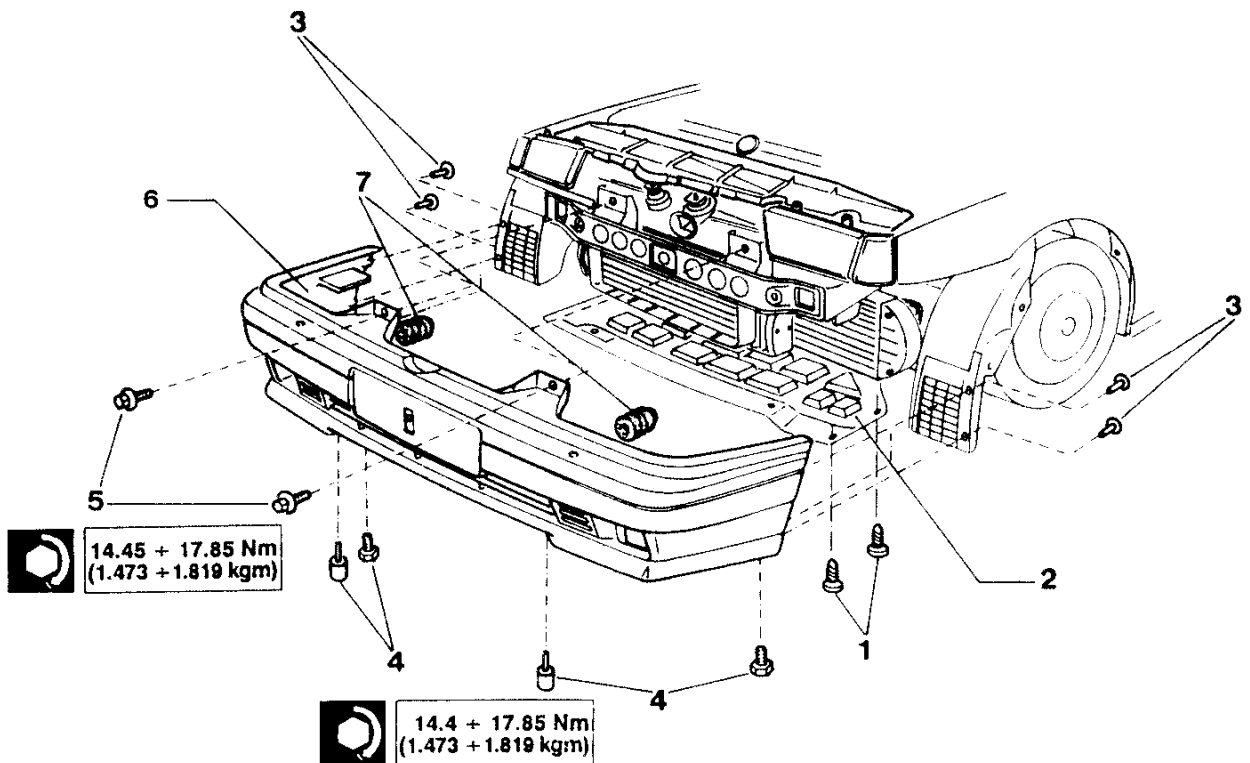
REMOVAL AND REFITTING

- Disconnect the negative lead (-) from the battery.
 - Remove the front grill (see: FRONT GRILL AND MOULDING UNDER HEADLIGHTS).
 - Raise the vehicle on a lift.
1. Unscrew the three screws securing the flat base to the vehicle and the six screws securing the engine cowl to the front bumper.
 2. Remove the flat base.

3. Detach the four plastic rivets securing the front bumper to the gravel guard.
4. Unscrew the four lower screws securing the bumper to the body.
 - If installed, disconnect the front fog-lamp supply connector.
 - Lower the vehicle lift.
5. Unscrew the two front screws.
6. Withdraw the bumper from its seating and remove it.
7. Remove the rubber buffers.
 - If installed, remove the fog-lamps.



To install, reverse the procedure followed for removal.



SUPPLEMENTARY INDICATIONS REGARDING REFITTING

- For components and/or parts dealt with in other pages of this or other groups, refer to the related procedures and indications (see: FRONT GRILL AND MOULDING UNDER HEADLIGHTS).

- Before connecting the electrical connectors, check that the electric cables are correctly inserted.
- When refitting, tighten to the specified torque the lower and front screws securing the bumper.

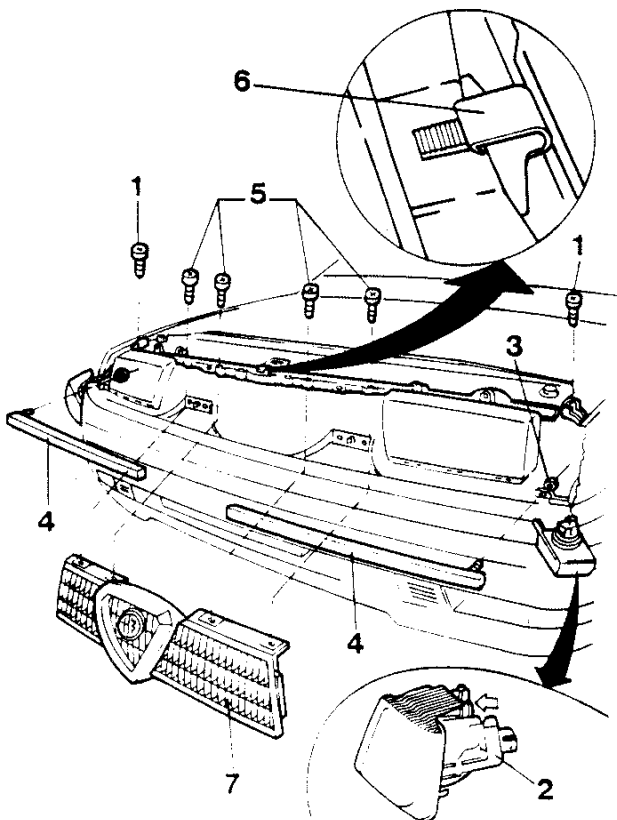
FRONT GRILL AND MOULDING UNDER HEADLIGHTS

REMOVAL AND REFITTING

- Disconnect the negative lead (-) from the battery.
- 1. Unscrew the screw securing the front direction indicators.
- 2. Acting on the lateral retaining lever, disengage the front direction indicator and remove it.
- 3. Unscrew the nut securing the side moulding under the headlights.
- 4. Remove the moulding disengaging the pins from the grill.
Repeat the operation for the opposite moulding.
- 5. Unscrew the four upper screws.
- 6. Disconnect upper clip.
- 7. Remove the grill.



To install, reverse the procedure followed for removal.



OIL RADIATOR AIR CONVEYOR (only for 2.4 V6 versions)

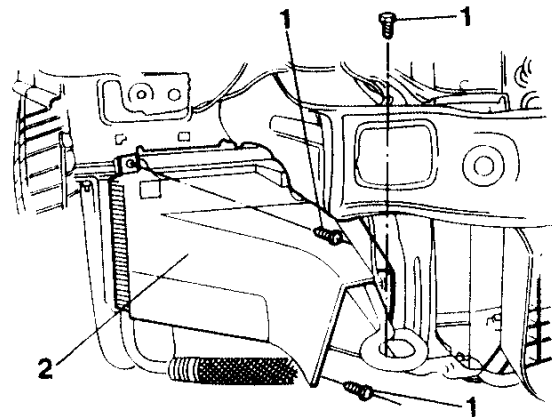
REMOVAL AND REFITTING

- Remove the front bumper (see: FRONT BUMPER).
- 1. Unscrew the three screws securing the oil radiator cooling conveyor.
- 2. Remove the air conveyor.



To install, reverse the procedure followed for removal observing the following:

- For components and/or parts dealt with in other pages of this or other groups, refer to the related procedures and indications (see: FRONT BUMPER).



FRONT TOW HOOK

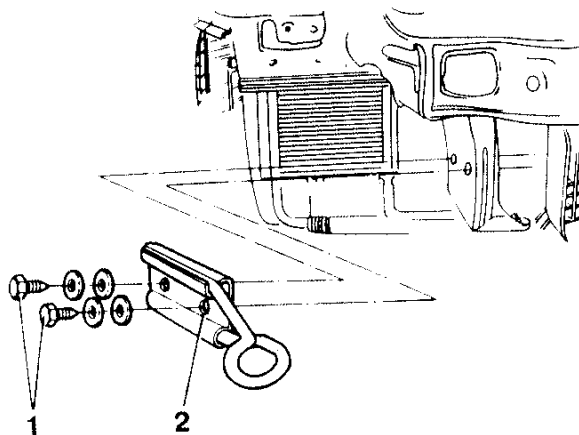
REMOVAL AND REFITTING

- Disconnect the negative lead (-) from the battery.
 - Remove the front bumper (see: FRONT BUMPER).
 - Raise the vehicle on a lift.
1. Unscrew the two screws securing the front tow hook to the body.
 2. Remove the tow hook.



To install, reverse the procedure followed for removal observing the following:

- For components and/or parts dealt with in other pages of this or other groups, refer to the related procedures and indications (see: FRONT BUMPER).
- When refitting, tighten to the specified torque the the screws securing the front tow hook to the body.



20.4 ÷ 25.2 Nm
(2.079 ÷ 2.569 kgm)

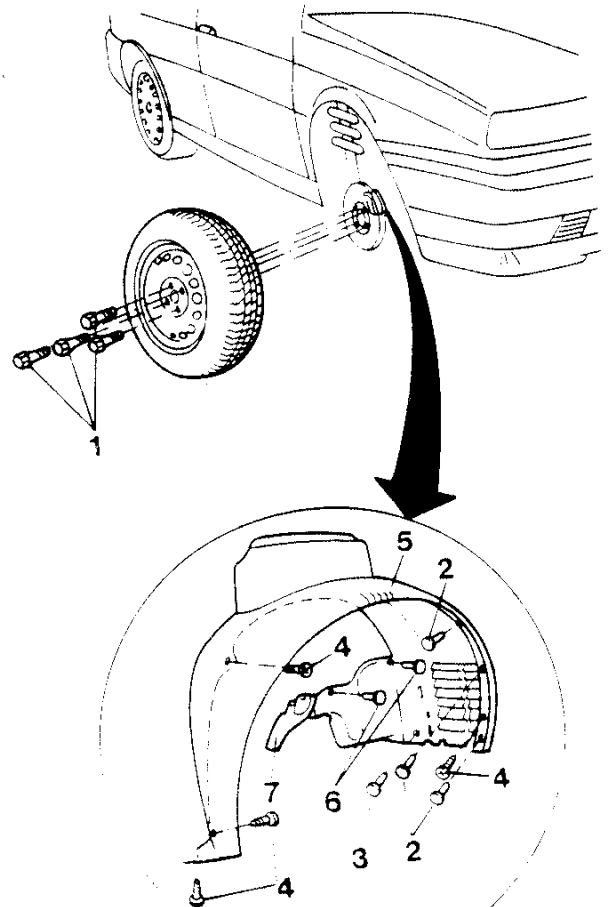
GRAVEL GUARD FRONT WHEEL-HOUSING

REMOVAL AND REFITTING

- Raise the vehicle on a lift.
1. Unscrew the four screws securing the front wheel and remove the wheel.
 2. Using tool No. 1.823.006.000, detach the two buttons securing the gravel guard to the bumper.
 3. Using tool No. 1.823.006.000, detach the button securing the gravel guard to the pulley guard.
 4. Unscrew the five screws securing the gravel guard to the wheel housing.
 5. Remove the gravel guard.
 6. Using tool No. 1.823.006.000, detach the two buttons securing the pulley guard to the wheel housing.
 7. Remove the pulley guard.



To install, reverse the procedure followed for removal.



AIR INTAKE MOULDING

REMOVAL AND REFITTING

- Disconnect the negative lead (-) from the battery.
- Open the bonnet.
- 1. Remove the two caps covering the nuts securing the windscreen wiper arms.
- 2. Unscrew the two nuts securing the windscreen wiper arms to the wiper device.
- 3. Remove the two windscreen wiper arms.

NOTE: To facilitate this operation, momentarily close the bonnet.

- 4. Unscrew the two screws securing the side moulding.
- 5. Remove the side moulding.
- Repeat the procedure for the opposite moulding.
- 6. Unscrew the seven screws securing the central air vent moulding.
- 7. Move the central air intake vent.
- 8. Disconnect the three-way connection from the windscreen washer fluid delivery hose, remove the moulding and take it to a bench.

On the bench:

- 9. Disconnect the jet delivery hoses from the five seatings located on the moulding.
- 10. Pull the two jets from the moulding and disconnect them from the hoses.

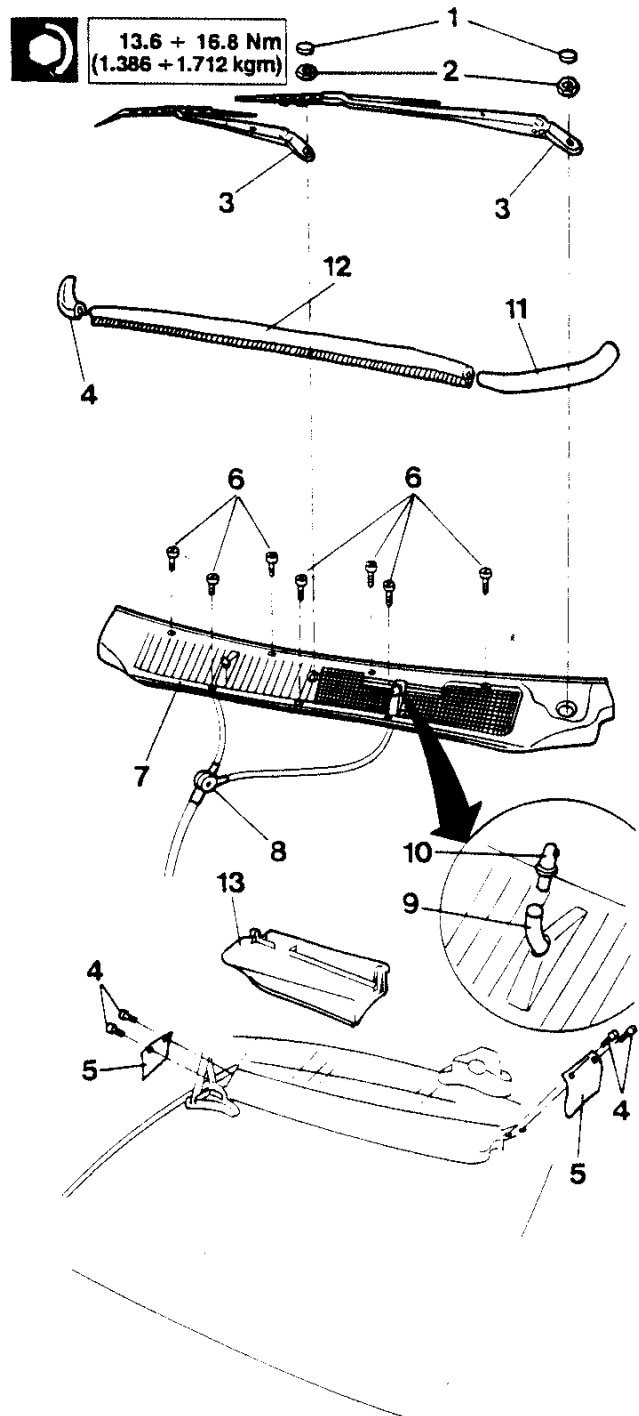
On the vehicle:

- 11. Remove the lateral seals.
- 12. Remove the central seal.
- 13. Remove the leaf guard.



To install, reverse the procedure followed for removal observing the following:

- During refitting, tighten the screws securing the windscreen wiper arms to the prescribed torque.





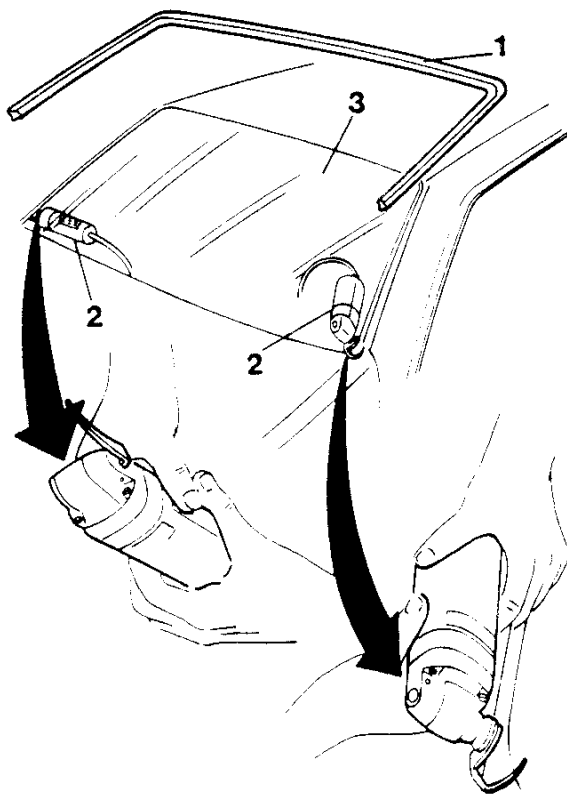
WINDSCREEN

REMOVAL

- Disconnect the negative lead (-) from the battery.
- Remove Front pillar trim (see: GR. 66 - FRONT PILLAR TRIM).
- Remove the sun visors and the front courtesy light (see: GR. 66 - ROOF PANEL).

NOTE: Protect the roof panel in order to avoid damaging or dirtying it.

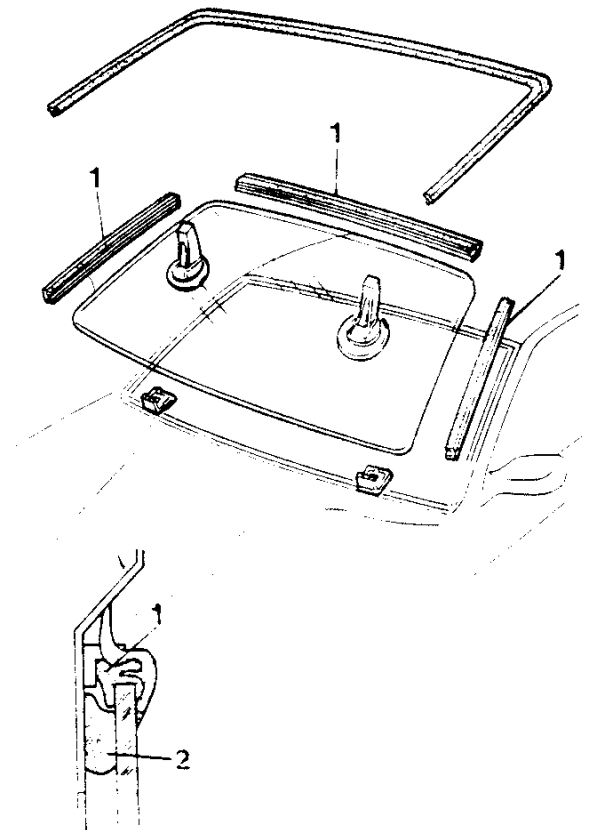
- Remove the bonnet (see: GR. 56 - BONNET).
 - Remove the air intake mouldings (see: AIR INTAKE MOULDING).
1. Remove the finishing strip.
 2. Using electric shears, cut the glue around the perimeter of the windscreen using the blades as indicated in the diagram.
 3. Remove the windscreen.



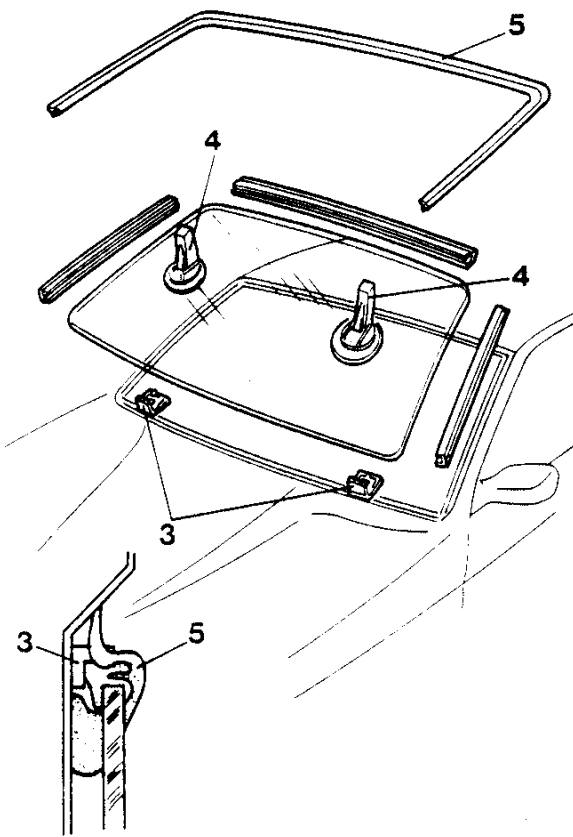
REFITTING

NOTE: When refitting the windscreen remove the shaped sections and the residues of bonding agent from the edge of the glass.

1. Apply the upper and side shaped sections to the windscreen.
 - Clean the edges of the glass and of the shaped sections using a suitable degreaser.
 - Leave to dry.
 - After degreasing, apply a suitable primer.
 - Leave to dry.
 - Smooth the residues of glue around the perimeter of the windscreen frame and wipe off with a dry cloth or compressed air.
2. When refitting the windscreen, apply the bonding agent to the glass in a band approximately 10 mm in width around the inside of the shaped sections and along the lower edge of the glass.



3. Position the four windscreen centering adhesive spacers.
4. Using the sucker pads, position the windscreen in the frame.
 - Apply a light, uniform pressure around the edge of the windscreen.
 - Leave the bonding agent to dry completely.
5. Refit the lower finishing strip.
 - Refit all previously removed components.
 - Connect the negative cable (-) to the battery.



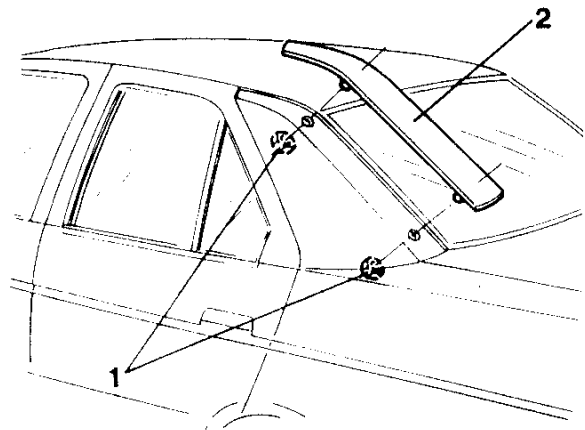
SUPPLEMENTARY INDICATIONS REGARDING REFITTING

- For components and/or parts dealt with in other pages of this or other groups, refer to the related procedures and indications (see: GR. 66 - FRONT PILLAR TRIM; GR. 66 - ROOF PANEL; GR. 56 - BONNET, AIR INTAKE MOULDING).

REAR PILLAR TRIM

REMOVAL AND REFITTING

- Remove the rear pillar trim (see: GR. 66 - REAR PILLAR TRIM).
1. Operating inside the vehicle, unscrew the two nuts securing the pillar trim.
 2. Remove the pillar trim.



To install, reverse the procedure followed for removal.



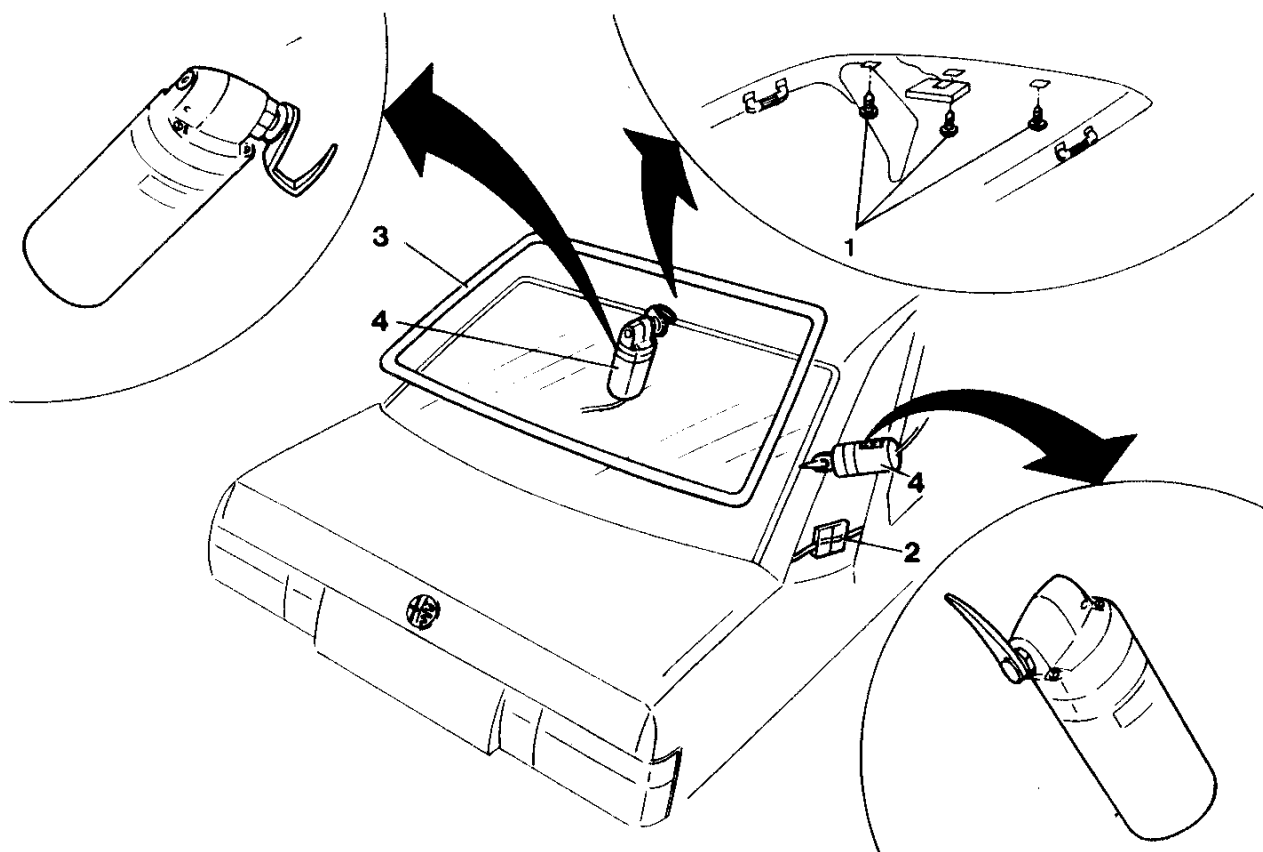
REAR WINDSCREEN

REMOVAL

- Disconnect the negative lead (-) from the battery.
- Remove the rear pillar trim (see: GR. 66 - REAR PILLAR TRIM)
- Remove the passenger grab handles (see: GR. 66 - ROOF PANEL).
- 1. Unscrew the three rear screws securing the roof panel to the courtesy light and lower the roof panel.

NOTE: Protect the roof panel in order to avoid damaging or dirtying it.

- 2. Disconnect the heated rear window connector.
- Remove the boot lid (see: GR. 56 - LUGGAGE COMPARTMENT).
- Remove the rear pillar trim (see: REAR PILLAR TRIM).
- 3. Remove finishing strip.
- 4. Using electric shears, cut the glue around the perimeter of the windscreen using the blades as indicated in the diagram.
- 5. Remove the rear windscreen.



**REFITTING**

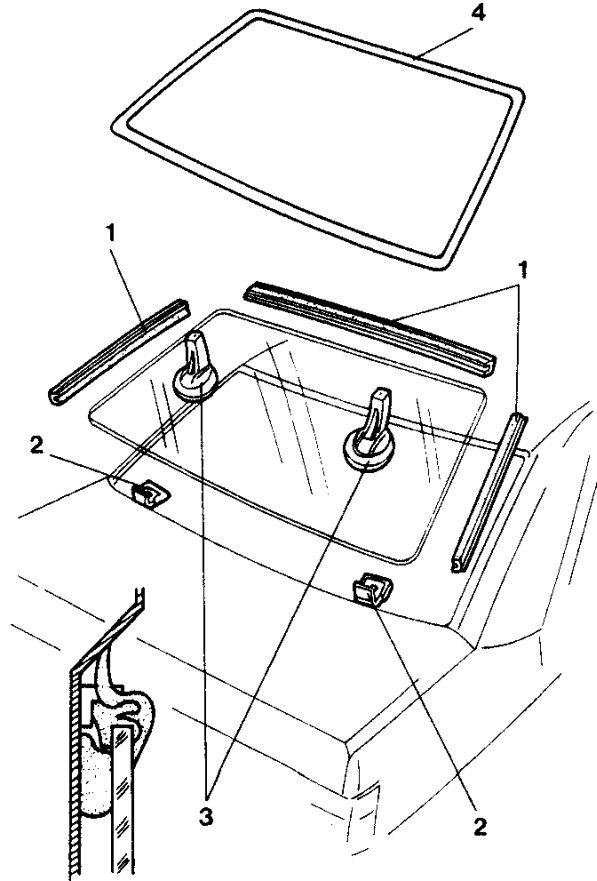
NOTE: When refitting the rear windscreen remove the shaped sections and the residues of bonding agent from the edge of the glass.

1. Apply the upper, lower and side shaped sections to the rear windscreen.
 - Clean the edges of the glass and shaped sections with a suitable degreaser.
 - Leave to dry.
 - After degreasing, apply a suitable primer.
 - Leave to dry.
 - Smooth the residues of glue around the perimeter of the rear windscreen frame and wipe off with a dry cloth or compressed air.
- When refitting the rear windscreen, apply the bonding agent to the glass in a band approximately 10 mm in width around the inside of the shaped sections and along the lower edge of the glass.
2. Position the four rear windscreen centering adhesive spacers.
3. Using the sucker pads, position the rear windscreen in the frame.
 - Apply a light, uniform pressure around the edge of the rear windscreen.
 - Leave the bonding agent to dry completely.
4. Refit the finishing strip.
 - Refit all previously removed components.
 - Connect the negative cable (-) to the battery.

SUPPLEMENTARY INDICATIONS REGARDING REFITTING

- For components and/or parts dealt with in other pages of this or other groups, refer to the related procedures and indications (see: GR. 66 - REAR PILLAR TRIM; GR. 66 - ROOF PANEL; GR. 56 - LUGGAGE COMPARTMENT, REAR PILLAR TRIM).

- Before connecting the electrical connectors, check that the electric cables are correctly inserted.





GRAVEL GUARD REAR WHEEL-HOUSING

REMOVAL AND REFITTING

– Raise the vehicle on a lift.

1. Unscrew the four screws securing the wheel and remove it.
2. Unscrew the two screws securing the rear base plate to the fuel tank cowl.
3. Unscrew the six screws securing the rear base plate to the rear bumper.
4. Remove the base plate.

Left side of vehicle:

5. Using tool No. 1.823.006.000, detach the three buttons securing the gravel guard to the rear bumper.

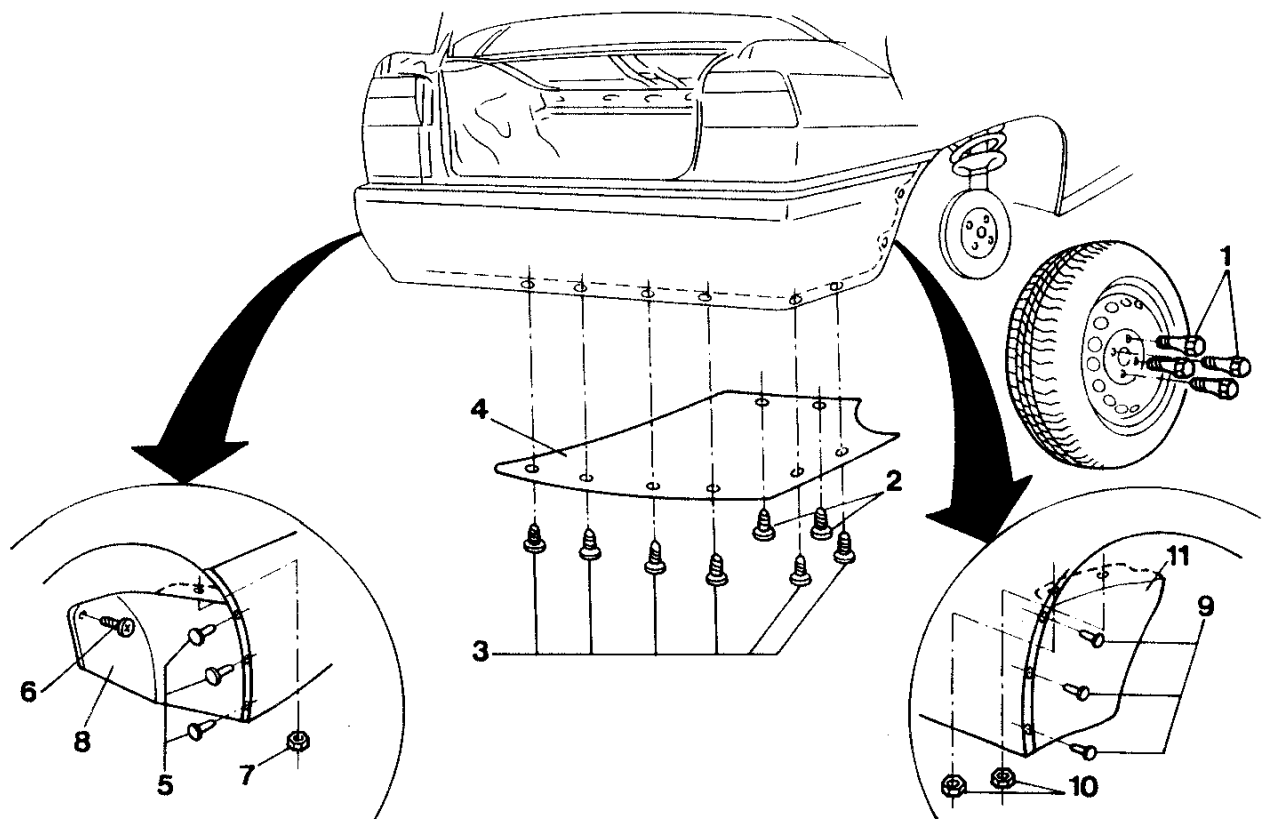
6. Operating from the wheel housing side, unscrew the screw securing the gravel guard to the wheel housing.
7. Operating from the lower side of the vehicle, unscrew the nut securing the gravel guard to the luggage compartment platform.
8. Remove the gravel guard.

Right-hand side of the vehicle:

9. Using tool No. 1.823.006.000, detach the three buttons securing the gravel guard to the rear bumper.
10. Unscrew the two nuts securing the gravel guard to the luggage compartment platform.
11. Remove the gravel guard.



To install, reverse the procedure followed for removal.



REAR BUMPER

REMOVAL AND REFITTING

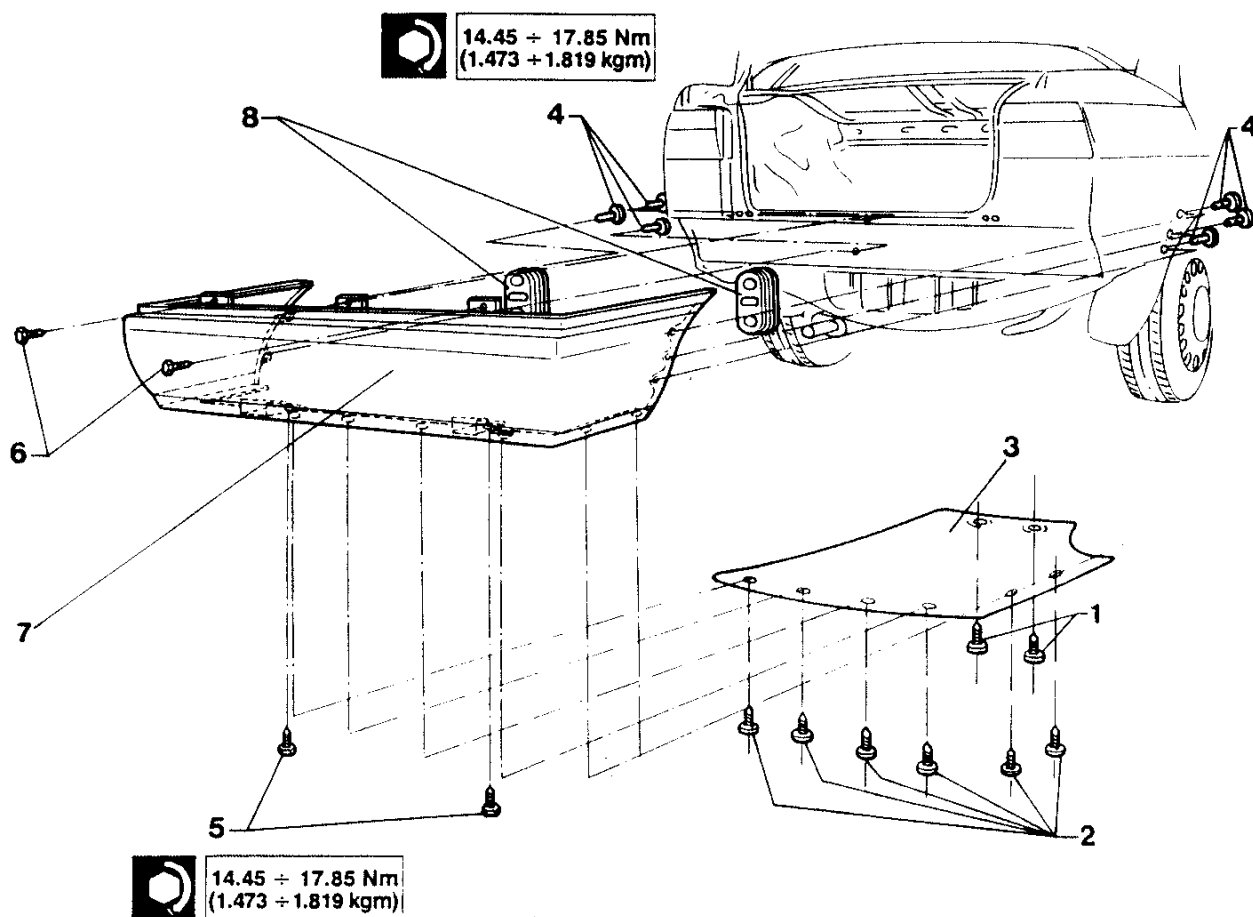
- Disconnect the negative lead (-) from the battery.
- Raise the vehicle on a lift.
- 1. Unscrew the two screws securing the rear base plate to the fuel tank cowl.
- 2. Unscrew the six screws securing the rear base plate to the rear bumper.
- 3. Remove the base plate.
- 4. Remove the six buttons securing the rear bumper to the gravel guard.

- 5. Unscrew the the two lower screws securing the bumper to the platform.
- Lower the vehicle lift.
- 6. Unscrew the two rear screws securing the bumper.
- 7. Remove the bumper.
- 8. Remove the rubber buffers.



To install, reverse the procedure followed for removal observing the following:

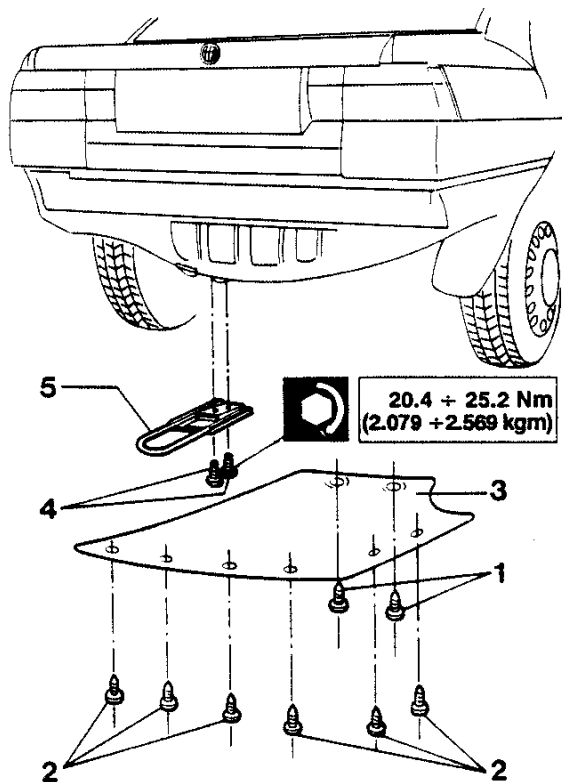
- During refitting, tighten to the prescribed torque the lower and front screws securing the bumper.



REAR TOW HOOK

REMOVAL AND REFITTING

- Raise the vehicle on a lift
- 1. Unscrew the two screws securing the rear base plate to the fuel tank cowl.
- 2. Unscrew the six screws securing the rear base plate to the rear bumper.
- 3. Remove the base plate.
- 4. Unscrew the two screws securing the rear tow hook to the body.
- 5. Remove the rear tow hook.



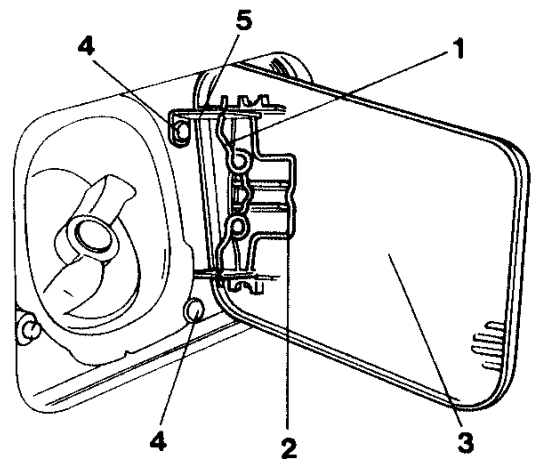
To install, reverse the procedure followed for removal observing the following:

- During refitting, tighten to the prescribed torque the screws securing the rear tow hook.

FUEL CAP COVER

REMOVAL AND REFITTING

1. Open the cover and unhook the return spring.
2. Disengage and remove the device securing the cover.
3. Remove the cover.
- Raise the fuel filler neck gasket located in the wheel housing.
4. Unscrew the two nuts securing the cover support bracket.
5. Remove the bracket.

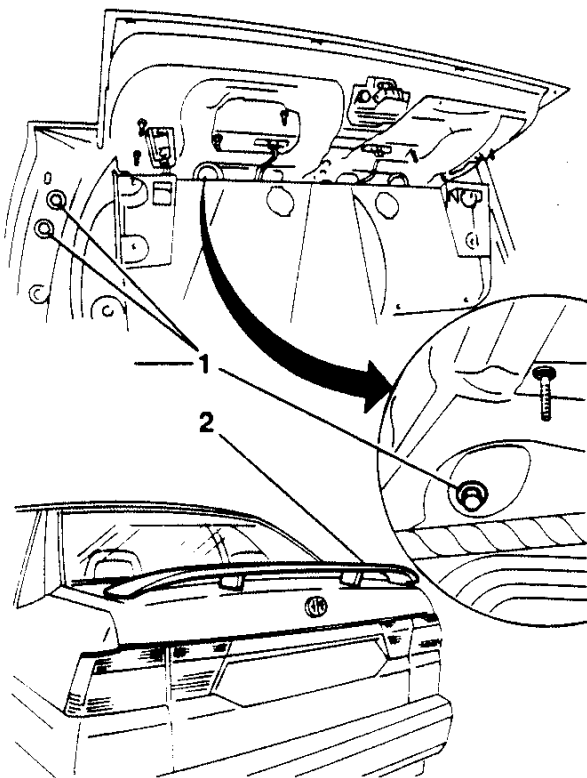


To install, reverse the procedure followed for removal.

SPOILER

REMOVAL AND REFITTING

- Disconnect the negative lead (-) from the battery.
 - Remove luggage compartment trim (see: GR. 66).
1. Unscrew the four bolts securing the spoiler to the boot lid.
 2. Lower the boot lid and remove the spoiler.

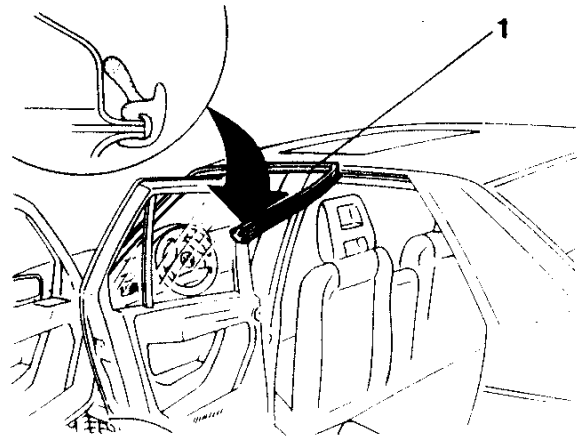


To install, reverse the procedure followed for removal.

ROOF PANEL SEALS

REMOVAL AND REFITTING

- Open the doors on the side from which the seals are to be removed.
1. Remove the seal, beginning from the rear part.



- Beginning from the rear part of the vehicle, install the new seal after having first heated it.



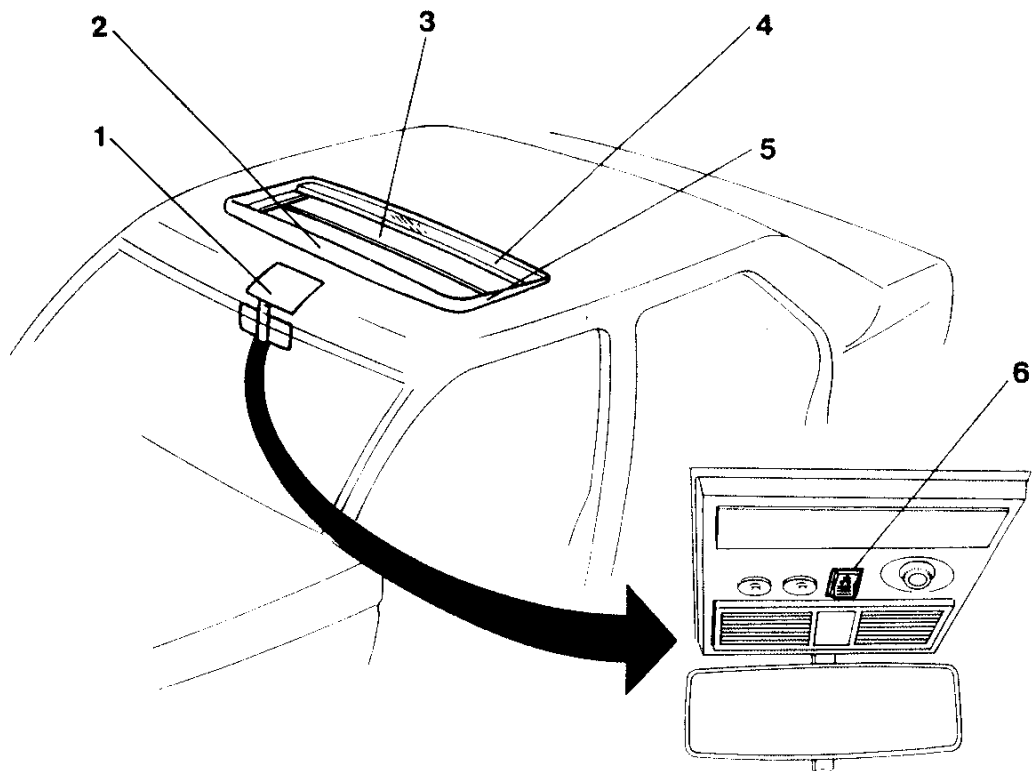
SUNROOF

GENERAL DESCRIPTION

The sunroof is of the glass type with sunshade curtain. It can be completely opened or moved to the "quarter light" position which allows air to escape from the passenger compartment but limits the ventilation.

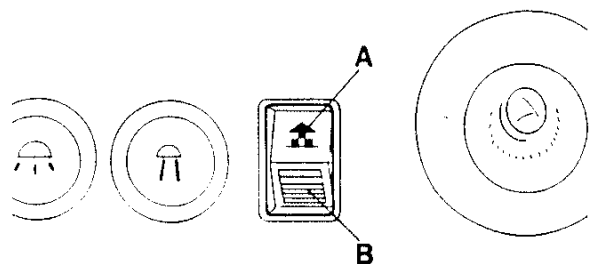
The control button (6) is located on the central front courtesy light panel (1) of the passenger compartment. The sunroof consists of an external glass (4) which slides on guides, and an inner trim (3).

The frame of the sunroof (5), complete with guides and slides, is located under the roof panel and is not visible. The rails are connected to the glass roof supports and to the interior trim and are connected by flexible racks. These flexible racks are moved by an electric motor through a toothed wheel and activate the slides. When the sunroof is open, the spoiler (2) automatically moves to a position which corrects the air flow. Any water that drips through the seal of the metal panel is collected by channels located on the four corners of the frame and is then drained off through flexible hoses which are routed to the engine or luggage compartment drains.



The operating sequence is shown in the following table:

Initial position of the roof	Operation	Movement of the roof
Roof closed	Press "A"	The roof opens
Roof open	Press "B"	The roof closes
Roof closed	Press "B"	The roof opens to the quarter light position
Roof open to quarter light position	Press "A"	The roof closes





The manually activated interior trim is connected to the frame by four spring connections. The deflector is held in the lowered position by the roof itself when this is in the closed or quarter light position. When the sunroof is opened the reaction springs permit the deflector to be in a raised position.

REMOVAL AND REFITTING

NOTE: Ensure that hands are clean before removing the sunroof.

- Disconnect the negative lead (-) from the battery.
- Remove roof panel (see: GR. 66 - ROOF PANEL).
- 1. Detach the front and rear drainage hoses.
- 2. Unscrew the eight screws securing the brackets to the roof panel.

3. Unscrew the six screws securing the sunroof to the roof panel, remove the complete roof and take it to the bench.

On the bench:

4. Unscrew the four screws securing the bracket to the roof and remove them.

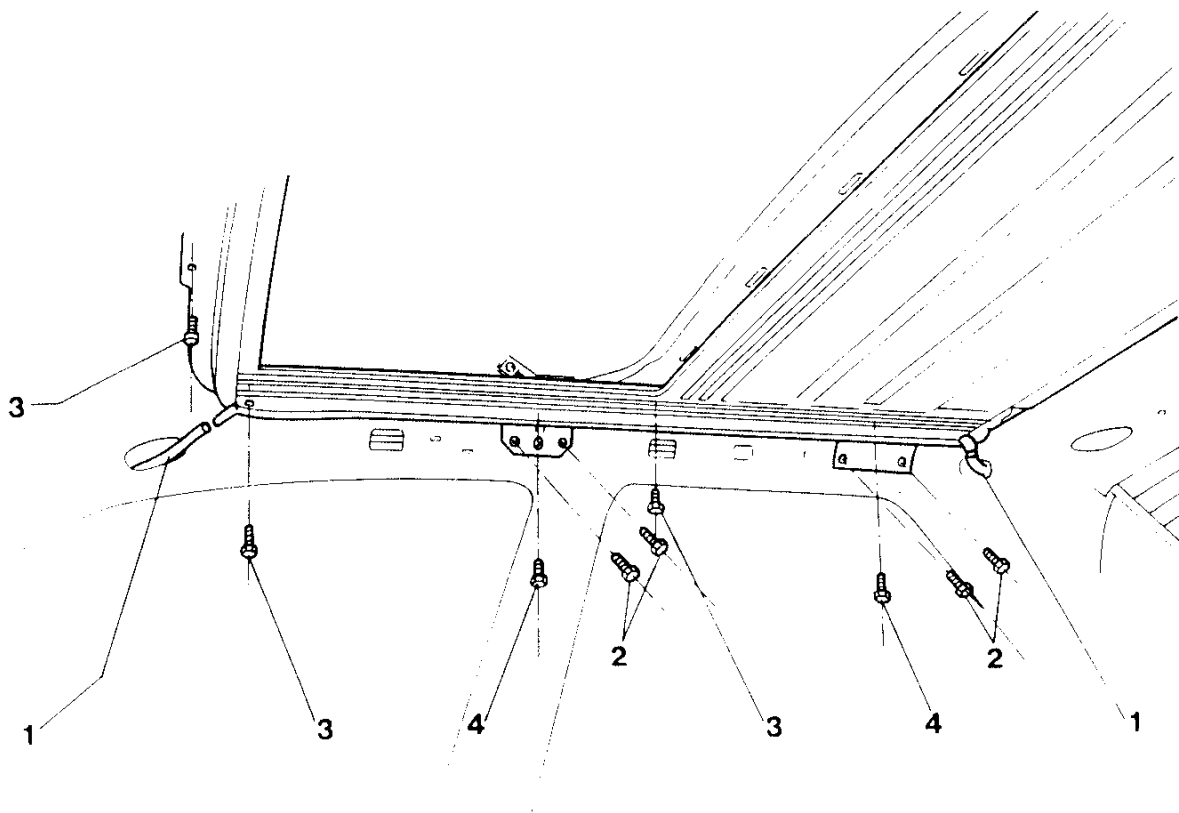


To install, reverse the procedure followed for removal.

NOTE: After refitting check that the device functions correctly.

Supplementary indications regarding refitting

- For components and/or parts dealt with in other pages of this or other groups, refer to the related procedures and indications (see: GR. 66 - ROOF PANEL).
- Before connecting the electrical connectors, check that the electric cables are correctly inserted.



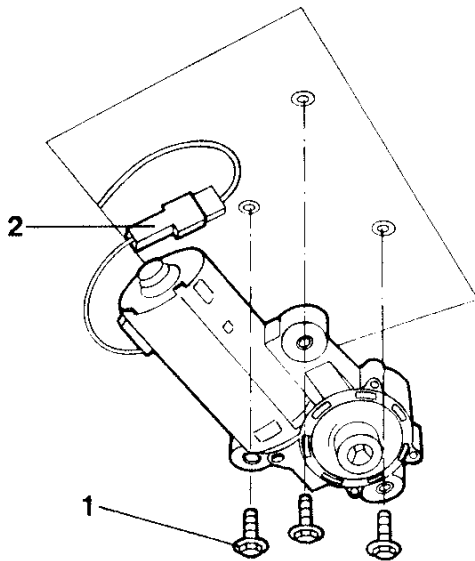


SUNROOF ELECTRIC MOTOR

REMOVAL AND REFITTING

NOTE: In the event of the motor malfunctioning, it is possible to move the roof to the desired position by manually activating the motor (see: EMERGENCY MANUAL ACTIVATION OF THE ELECTRIC SUNROOF).

- Disconnect the negative lead (-) from the battery
 - Move the sunroof to the closed position so that it is flush with the surface of the roof.
 - Remove the front courtesy light (see: GR. 66 - FRONT COURTESY LIGHT).
1. Unscrew the three screws securing the motor to the chassis.
 2. Disconnect the supply connector and remove the motor.



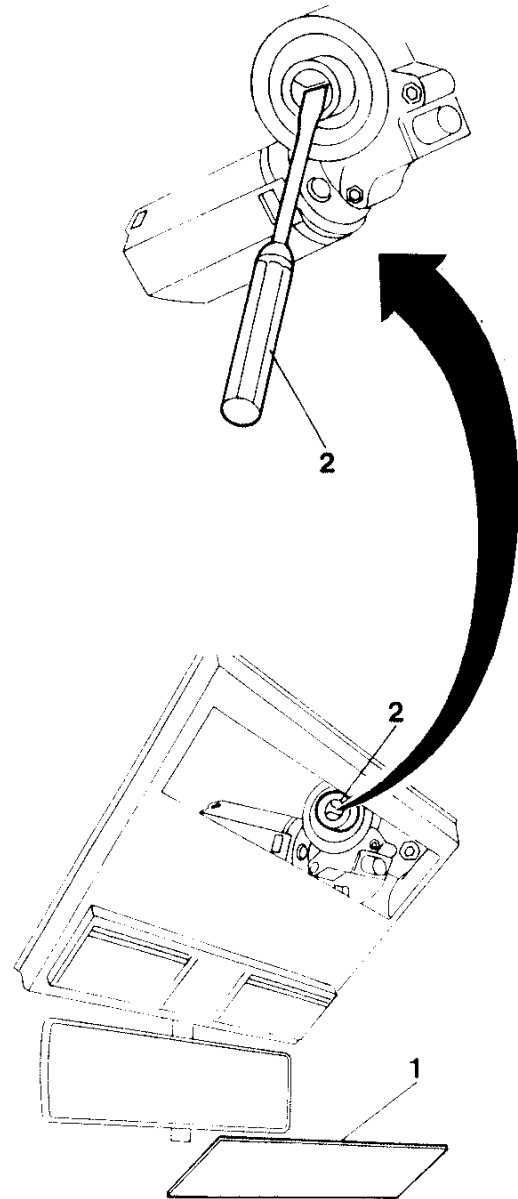
To refit, reverse the procedures employed for removal observing the following:

- For components and/or parts dealt with in other pages of this or other groups, refer to the related procedures and indications (see: GR. 66 - FRONT COURTESY LIGHT).
- Before connecting the electrical connectors, check that the electric cables are correctly inserted.

EMERGENCY MANUAL ACTIVATION OF THE ELECTRIC SUNROOF

The operation should be carried out in the event of a malfunction in the electric sunroof motor system. It is possible to manually activate it using a screwdriver and following the procedure described below.

1. Remove the front courtesy light moulding.
2. Insert a screwdriver in the seating of the motor body and rotate until the roof is at the desired position.





SUNROOF CONTROL RELAY

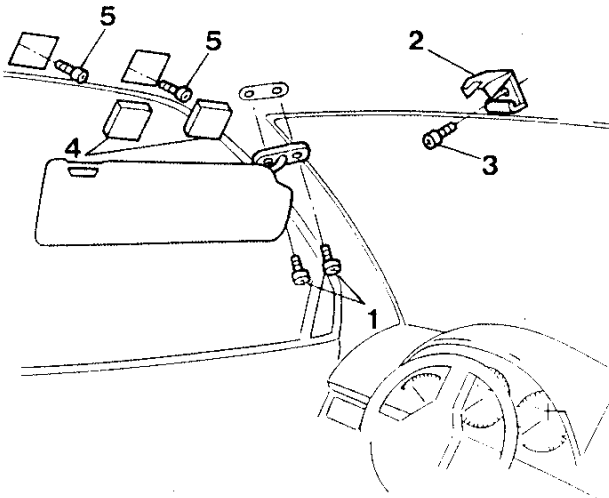
REMOVAL AND REFITTING

NOTE: Before removing the sunroof, ensure that hands are clean.

- Disconnect the negative lead (-) from the battery.
- Remove the sunroof motor (see: SUNROOF ELECTRIC MOTOR).

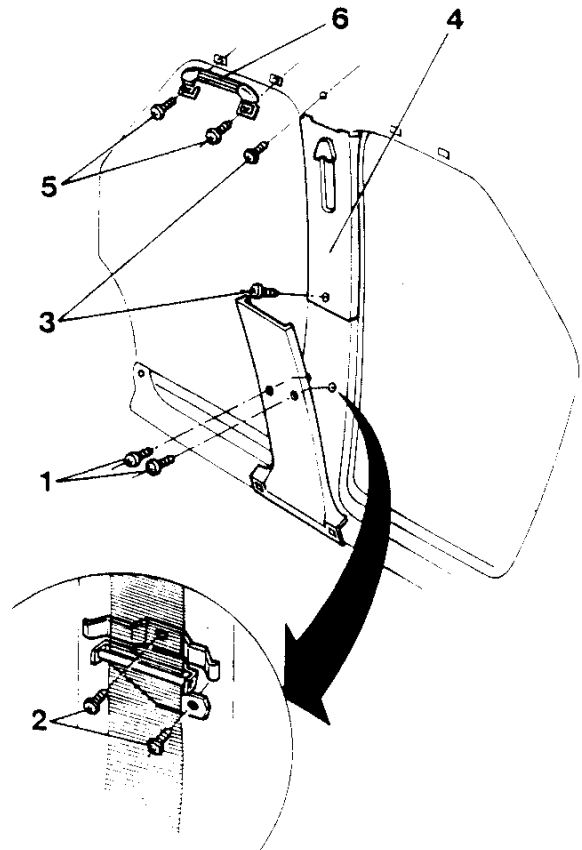
Operating from the driver's side:

1. Unscrew the two screws securing the right-hand sun visor and remove the visor.
2. Disengage the cover from the screws of the hook securing the right-hand sun visor.
3. Unscrew the screw securing the hook and remove.
4. Remove the screw covers on the driver's side.
5. Unscrew the two screws securing the roof panel on the driver's side.



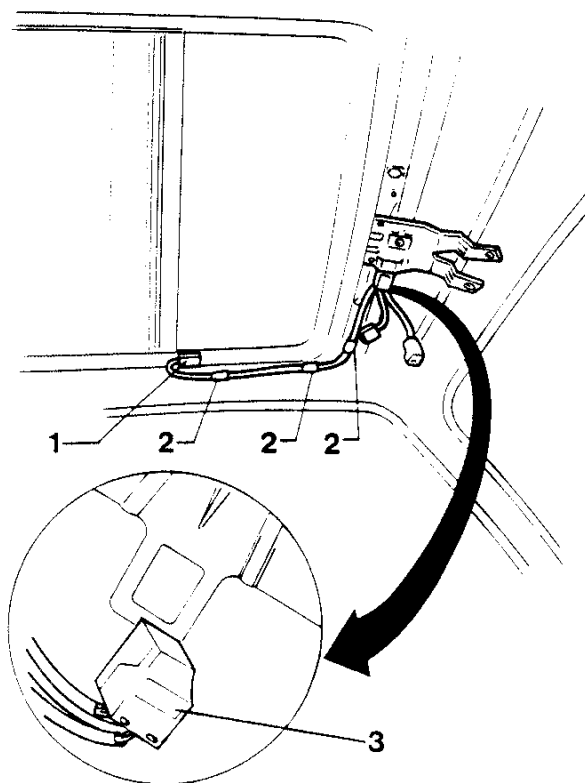
- Remove the front pillar trim (see: GR. 66 - FRONT PILLAR TRIM).

1. Unscrew the screws securing the central pillar lower trim and disengage it from the retaining clip.
2. Unscrew the two screws securing the seat belt bracket to the left-hand central pillar and lower the clip.
3. Unscrew the screws securing the central pillar upper trim.
4. Lower the upper part of the central pillar trim.
5. Unscrew the two screws securing the rear left-hand passenger grab handle.
6. Remove the rear handle.





1. Operating inside the vehicle, disconnect the stop limit microswitch supply connector.
2. Raise the roof panel and remove the three clamps securing the cable to the sheath of the flexible rack.
3. Disconnect the courtesy light support relay and remove it.



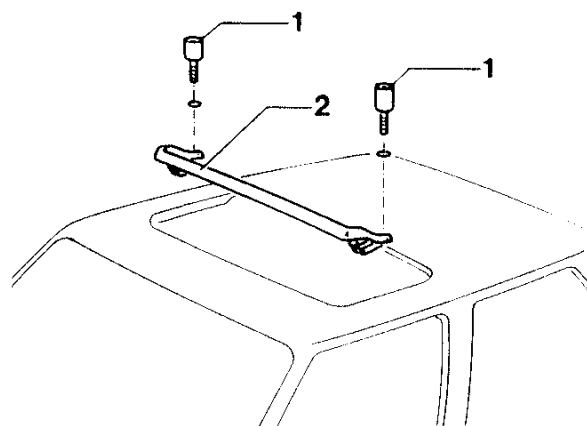
To refit, reverse the procedure employed for removal observing the following:

- Before connecting the electrical connectors, check that the electric cables are correctly inserted.
- For components and/or parts dealt with in other pages of this or other groups, refer to the related procedures and indications (see: GROUP 66 - CENTRAL PILLAR TRIM; SUNROOF ELECTRIC MOTOR).

MOBILE DEFLECTOR

REMOVAL AND REFITTING

- Open the sunroof.
1. Unscrew the two Allen screws securing the deflector to the roof panel and remove it along with the plastic washers.
 2. Remove the deflector.



To refit, reverse the procedures employed for removal.

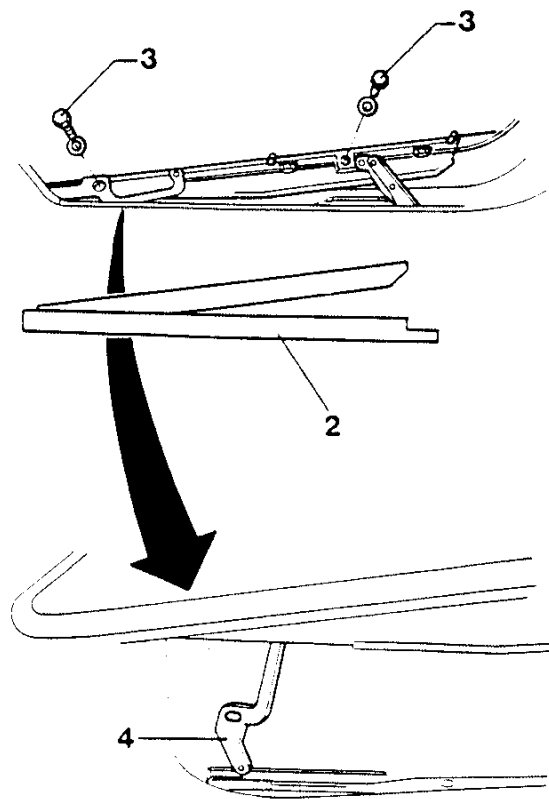
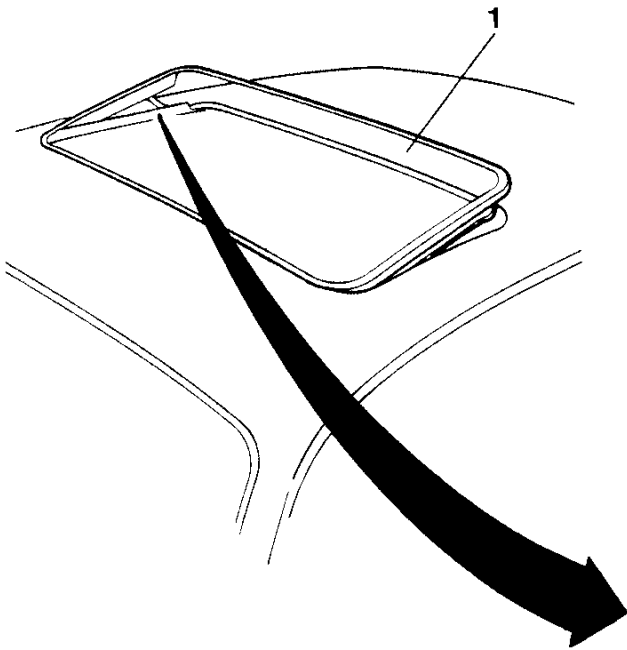


ROOF GLASS

REMOVAL AND REFITTING

1. Open the sunroof to the quarter light position.
2. Remove the two mouldings protecting the sliding mechanism.

3. Unscrew the four brass sunroof position vertical adjustment screws.
4. Remove the roof by disengaging it from the two safety runners and take it to a bench.



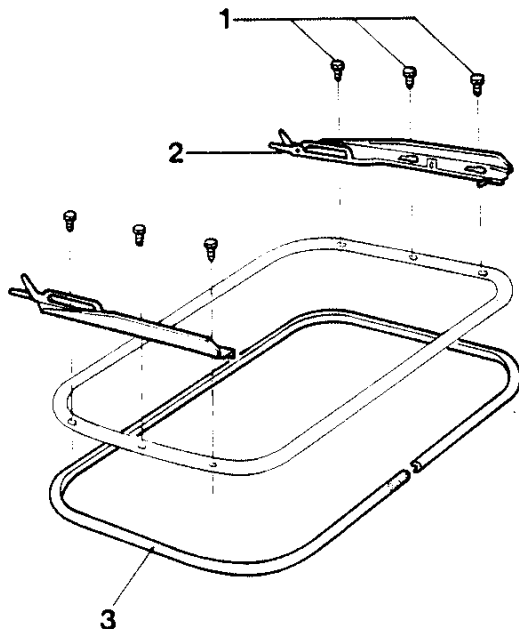


On the bench:

1. Unscrew the three screws regulating the transversal position and securing the roof support.
2. Remove the roof support.
- Repeat the operation for the other support.
3. Remove the grooved seal from the glass.



To refit, reverse the procedures employed for removal.



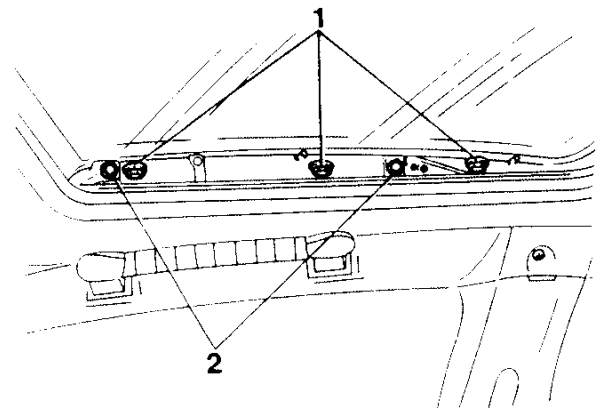
NOTE: After refitting, adjust the vertical and transversal position.

ADJUSTING POSITION OF SUNROOF GLASS

NOTE: To adjust the position of the sunroof glass, two operators are required, one operating from inside the vehicle and one outside.

The operator on the outside centres the glass in relation to the seating, flush with the surface of the roof of the vehicle. The operator on the inside tightens the adjustment screws.

- Open the the roof to the quarter light position.
 - Remove the mouldings protecting the sliding mechanism.
 - Close the roof.
1. Loosen the six screws regulating the transversal position.
 - Correctly position the glass.
 - Tighten the six screws.
 2. Loosen the four screws regulating the vertical position of the sunroof.
 - Position the sunroof so that it is flush with the surface of the roof.
 - Tighten the four screws.



SLIDING BLIND

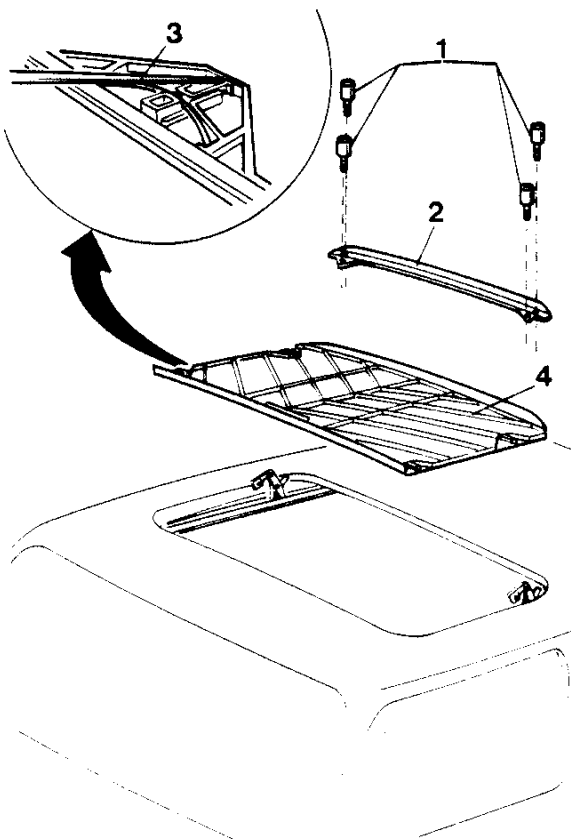
REMOVAL AND REFITTING

- Remove the sunroof glass (see: ROOF GLASS).
 - Adjust the blind to the closed position.
1. Unscrew the four rear screws securing the hoop.
 2. Remove the hoop.
 3. Using a screwdriver, disengage two of the four retaining clips securing the blind to the roof guide (on the same side of the vehicle).
 4. Remove the sliding blind.



To refit, reverse the procedures employed for removal.

- For components and/or parts dealt with in other pages of this or other groups, refer to the related procedures and indications (see: ROOF GLASS).



STOP LIMIT MICROSWITCH

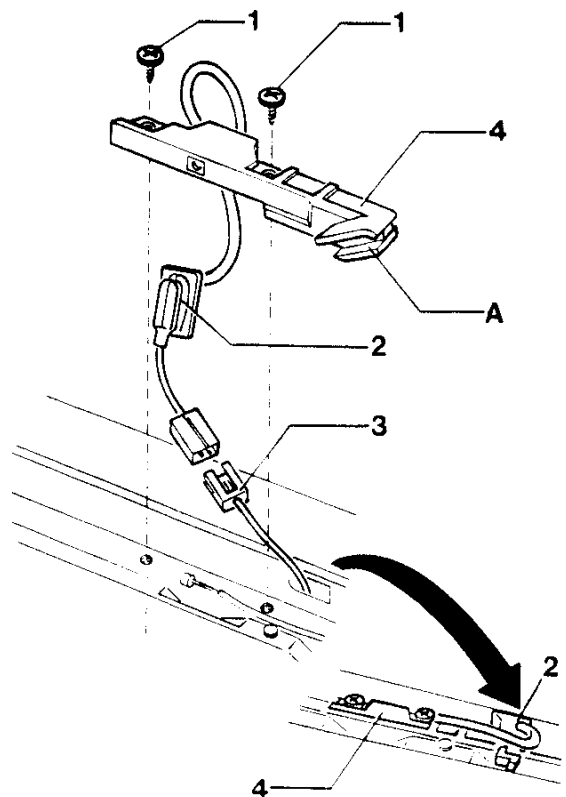
REMOVAL AND REFITTING

- Fully open the roof.
 - Disconnect the negative lead (-) from the battery.
1. Unscrew the two screws securing the microswitch to the left guide.
 2. Withdraw the rubber protection from the cable fixed to the guide.
 3. Withdraw the cable and disconnect the microswitch connector.
 4. Remove the microswitch.



To refit, reverse the procedures employed for removal.

NOTE: Correctly position the cable so that it fits in the seating and does not obstruct the movement of the flexible rack drawing the sunroof. Correctly couple the guide (A) on the microswitch to the sliding guide pin.



Supplementary indications regarding refitting

- Before connecting the electrical connectors, check that the electric cables are correctly inserted.

**FLEXIBLE RACK DRAWING
SUNROOF****REMOVAL**

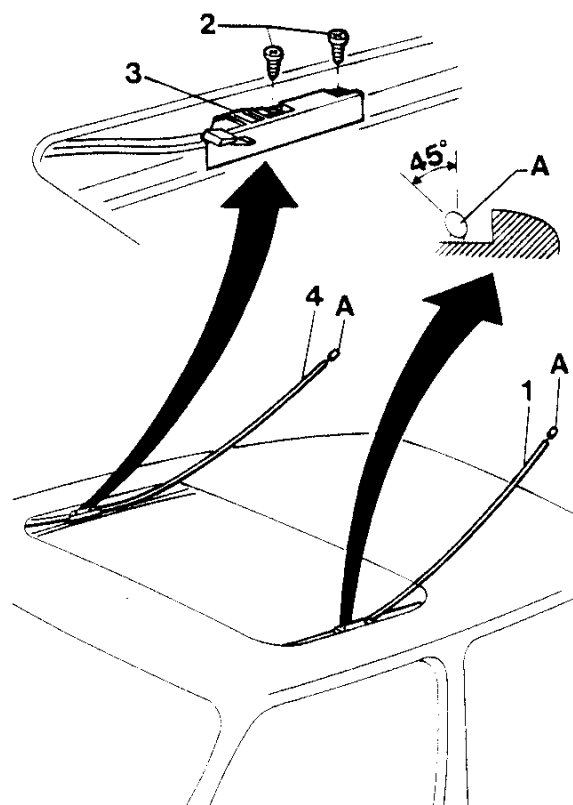
- Remove sunroof motor (see: SUNROOF ELECTRIC MOTOR).
 - Remove the sunroof glass (see: ROOF GLASS).
 - Remove the sliding blind (see: SLIDING BLIND).
 - Remove the stop limit microswitch (see: STOP LIMIT MICROSWITCH).
1. Withdraw the left rack from the guide sheath.
 2. Unscrew the two screws securing the rack stop plate.
 3. Remove the rack stop plate from the right-hand guide.
 4. Withdraw the right-hand rack from the guide sheath.

REFITTING

Insert the right-hand rack in the guide sheath.

NOTE: When the end of the rack is level with the drawing gear housing, check that it centres the second guide. Once it is completely inserted check that the elliptical head (A) is positioned in its seating with an inclination of 45° towards the exterior of the vehicle.

- Position the rack stop plate and secure it with the two screws.
- Repeat the operation for the left rack and complete installation by reversing the procedures employed for removal.
- Position the control system (see: POSITIONING OF SUNROOF CONTROL SYSTEM).

**Supplementary indications regarding refitting**

- For components and/or parts dealt with in other pages of this or other groups, refer to the related procedures and indications (see: SUNROOF ELECTRIC MOTOR, ROOF GLASS, SLIDING BLIND, STOP LIMIT MICROSWITCH).
- Before connecting the electrical connectors, check that the electric cables are correctly inserted.

Positioning of sunroof control system

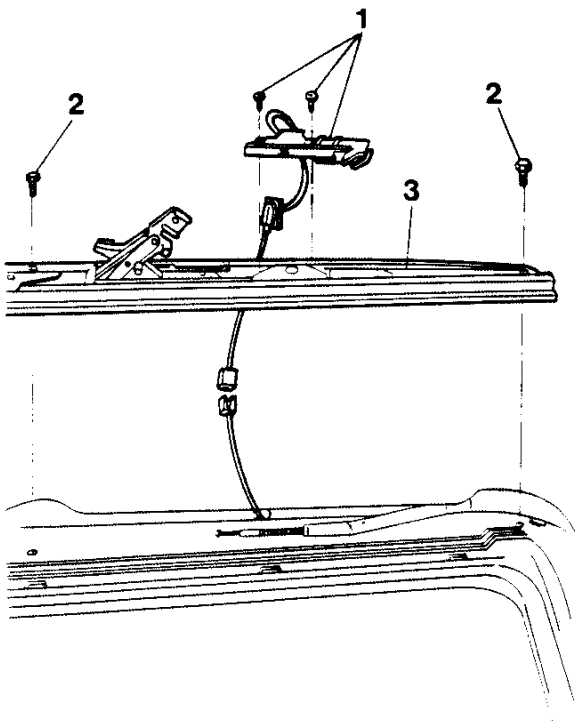
- Move the front slide completely forward.
- Position the rear slide so that the pin of the safety microswitch (left guide) or the hole (right guide) with, respectively, the switch or the reference pin. In this way the two guides will correspond exactly.



GUIDES

REMOVAL AND REFITTING

- Disconnect the negative lead (-) from the battery.
- Remove sun roof glass (see: ROOF GLASS).
- Remove the sliding blind (see: SLIDING BLIND).
- 1. Unscrew the two screws securing the microswitch to the right guide and remove it by disengaging the left rack.
- Unscrew the two screws securing cable clamp plate of the right guide and disengage the right rack.
- 2. Unscrew the four screws securing the guide to the frame.
- 3. Withdraw the guides disengaging them from the retaining clips of the centering device located behind the frame, and take it to a bench.



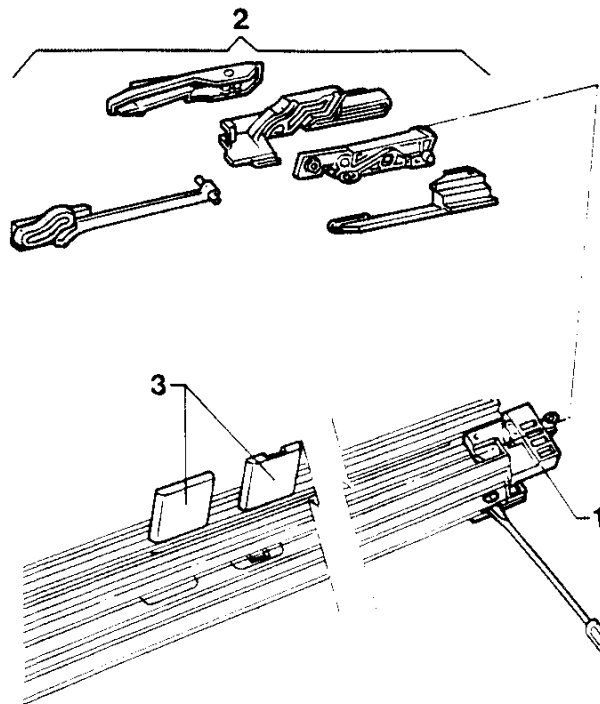
On the bench:

1. Using a screwdriver apply leverage on the rail and disengage the mechanical stop limit blocking the slide, situated on the end part of the guide.
2. Withdraw the entire quarter light lever group from the guide and separate it into its component parts.
3. Withdraw the mechanical quarter light catches from the seatings.



To refit, reverse the procedures employed for removal observing the following:

- For components and/or parts dealt with in other pages of this or other groups, refer to the related procedures and indications (see: ROOF GLASS, SLIDING BLIND).





TECHNICAL CHARACTERISTICS AND SPECIFICATIONS

GENERAL SPECIFICATIONS

FLUIDS AND LUBRICANTS

APPLICATION	TYPE	NAME
- Sun roof guide rails	GREASE	AMECO - OPTIMOL Optimoly - Paste White T

PRODUCTS FOR GLUEING FRONT AND REAR WINDSCREENS

APPLICATION	TYPE	NAME
- Adhesive for glass	ADHESIVE	Kit ALFA ROMEO P/N 162.00.76.001.99

TIGHTENING TORQUES

Description	N·m	kg·m
Front screws securing front bumper to body	14.45 - 17.85	1.473 - 1.819
Lower screws securing front bumper to body	14.45 - 17.85	1.473 - 1.819
Front screws securing rear bumper to body	14.45 - 17.85	1.473 - 1.819
Lower screws securing rear bumper to body	14.45 - 17.85	1.473 - 1.819
Screws securing front tow hook	20.40 - 25.20	2.079 - 2.569
Screws securing rear tow hook	20.40 - 25.20	2.079 - 2.569
Bolts securing windscreen wiper arms	13.60 - 16.80	1.386 - 1.712