

Chapter 17

Body

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Airbag Warning



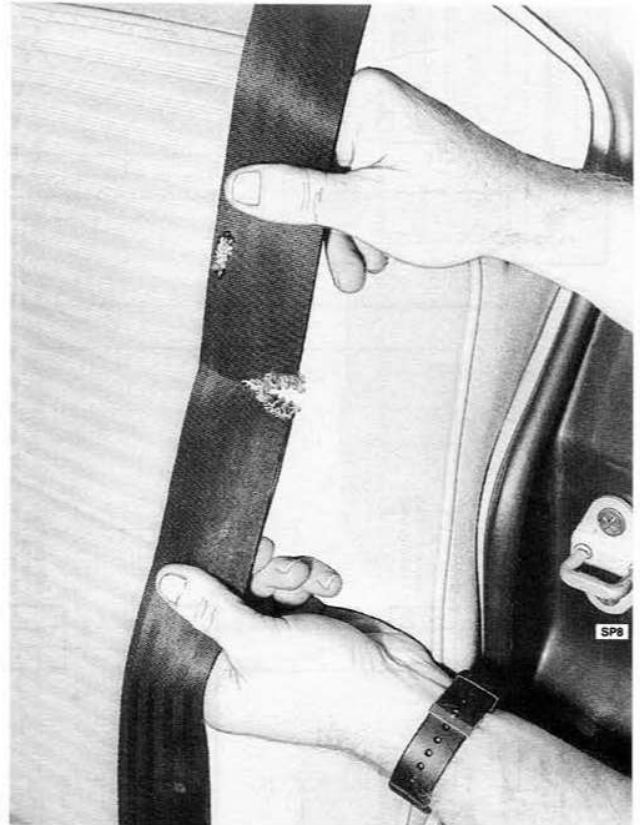
Use extreme caution when working around the airbag system. When carrying a live airbag assembly, always carry it with the trim cover facing away from you.

When storing the assembly on a bench, always store it with the trim cover facing up and avoid placing anything near or on the assembly.

Routine Maintenance

SEAT BELTS

- 1 Check the seat belt webbing for fraying, cuts, burns or other damage. On inertia reel seat belts, slowly pull the belt from the retractor reel to allow the entire length to be examined. If the webbing is damaged or worn, renew the seat belt assembly.
- 2 If necessary, clean the seat belt webbing with mild soap and water. Avoid contamination with polish, oil, bleaches and other chemicals.
- 3 Ensure that the belts are not twisted.
- 4 Check all retaining nuts and bolts for security.
- 5 Inspect the belt buckles for correct and secure engagement. If the buckles are damaged or do not function correctly, renew the seat belt assembly.
- 6 On inertia reel seat belts, check the retractor mechanism as follows:
 - a Pull the belt slowly from the reel and check for smooth operation. Release the belt and ensure that it retracts fully.
 - b Pull the belt rapidly from the reel. The reel should lock.



Check the seat belt webbing for fraying, cracks or other damage.

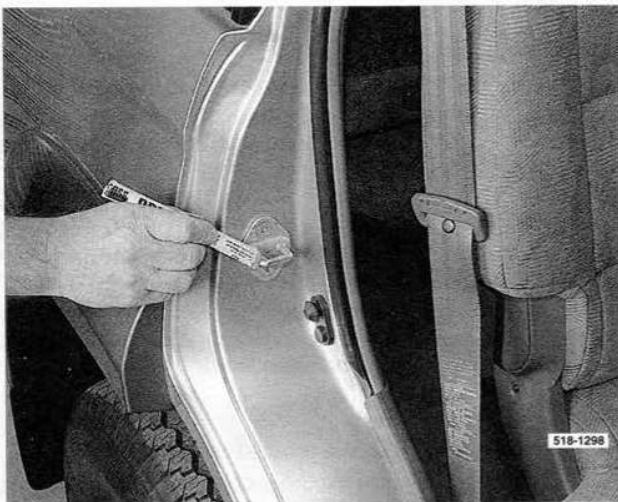
- c Drive the vehicle at walking pace and attempt to withdraw the belt slowly while braking sharply. The reel should lock. If the retractor mechanism does not function correctly, renew the seat belt assembly.

BODY

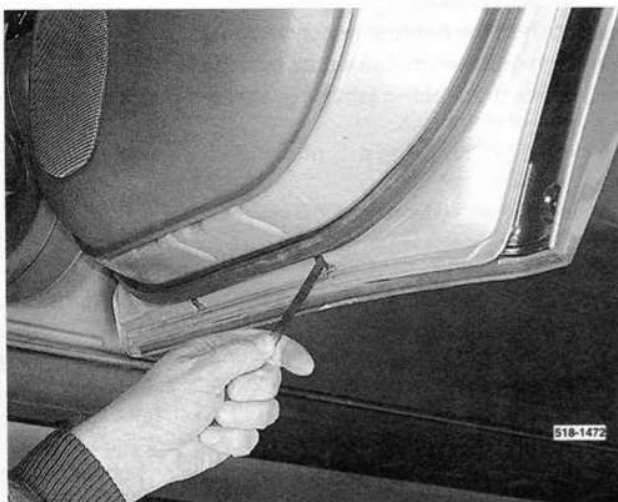
- 1 Periodically check the tightness of nuts and bolts retaining various body components.
- 2 Lubricate the door strikers and the bonnet lock with Dri Lube or similar. Avoid using grease on these components, as it can stain your clothes.
- 3 Lubricate the door hinges sparingly with engine oil or spray grease.
- 4 Apply graphite powder to the lock cylinders. Do not use oil or other liquid lubricants.
- 5 To prevent rust, periodically clean the wheel arches and the underbody of accumulated mud and dirt, using a strong jet of water.



Checking that the chassis to body retaining bolts are tight.



Lubricating a door lock striker with Dri-Lube.



The drain holes in the doors must be kept clean to prevent rust and corrosion. A cable tie is an ideal cleaning tool.



After washing the underbody, the brakes may operate less efficiently due to wet brake pads. Apply the brakes for a short period of time while driving slowly. Be prepared for uneven brake operation and/or increased stopping distances.

- 6 Clean the exterior of the vehicle, using good quality car care products. Avoid using dishwashing detergent. Add a few drops of kerosene to the rinsing water to prevent rust developing.
- 7 Clean the drain holes, located in the bottom of the doors and also in the sill and in the quarter panels. Use a blunt instrument made of wood or plastic to prevent damage to the paint.
- 8 Ensure that the rubber plugs sealing the underbody access holes are in serviceable condition and correctly installed.
- 9 Inspect the paintwork for small scratches and chips. Apply the appropriate colour touch-up paint to the effected area, following the paint manufacturers instructions.

Airbag and Seat Belt Pretensioner (SRS)

DESCRIPTION

The airbag is a supplementary restraint system (SRS), designed to be used in conjunction with the seat belt. The system uses two crash sensors, located in the engine compartment, and an airbag control module, located forward of the centre console.

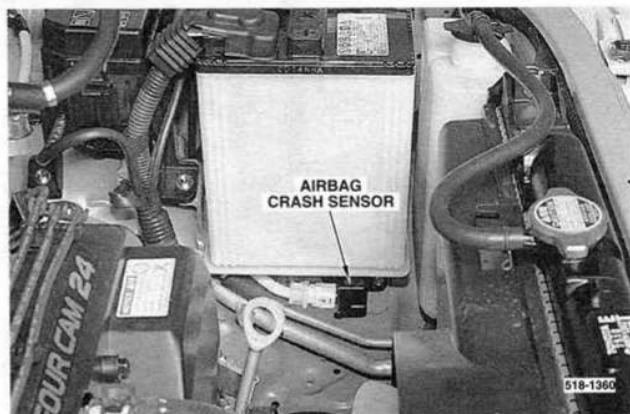
The airbag system is standard equipment on some models and optional on others.

In the event of a frontal collision in which a pre-determined speed has been exceeded and the sensors signal an impact, the airbags are activated.

The airbag on the drivers side is located in the centre of the steering wheel. The passenger side airbag is located behind the dashboard above the glove compartment.

The deployment of the airbag is very rapid and the inflated airbag slows the forward motion of the occupant. After deployment, the airbag quickly deflates.

The front seat belts are equipped with a pretensioners, which are a pyrotechnic device designed to tighten the seat belts restricting body movement of the occupants of the front seat in an accident. On models with airbags, the operation of the pretensioners are controlled by the airbag control module. On



Location of the airbag crash sensor. Another sensor is in the same position on the opposite side of the vehicle.

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models without airbags, the seat belt pretensioners are activated by an inbuilt mechanism in the retractor.

The airbag is electrically activated, but in the event of damage to the battery or its wiring, the module has its own backup power supply which it uses to deploy the system.

PRECAUTIONS

When working on the airbag or components of the vehicle which may effect the airbag, the following precautions must be observed.

Disable and remove the airbag when working on the steering wheel, the steering column, the dashboard or the wiring in the vicinity of SRS components (module or airbag).

When removed, always carry the airbag with the trim cover away from the person handling the device.

When storing the airbag, ensure that the trim cover is facing upwards.

When towing a vehicle with major front damage, disconnect the battery as a precaution.

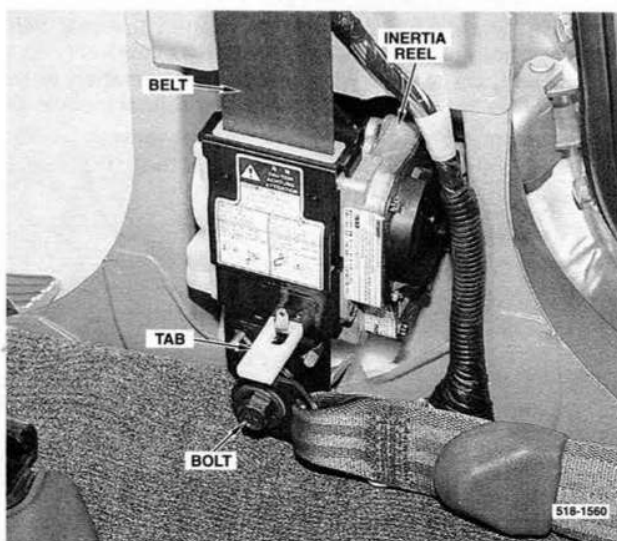
On models with airbags, when welding on the vehicle, always disconnect the wiring connectors from the airbags and seat belt pretensioners.

TO DISABLE**Airbags**

Disconnect the negative battery terminal and wait at least 90 seconds before commencing to remove the airbag assembly from the vehicle. Do not use a backup power supply to retain the memory in the audio system and clock as this will also supply power to the SRS.

Seat belt Pretensioners

The seat belt pretensioners must be disabled before removing the seat belts from the vehicle. On models with airbags, the seat belt pretensioners should also be disabled before welding on the vehicle.



Seat belt pretensioner models without airbags, shown with tab in the disabled position.

- 1 Remove the trim panel from the B pillar to gain access to the seat belt reel assembly.
- 2 On models with airbags proceed as follows:
 - a Disconnect the negative battery terminal and wait at least 90 seconds before continuing.
 - b Slide the locking clip to a vertical position and then disconnect the wiring connector from the base of the seat belt pretensioner assembly.



Models with airbags have electronically controlled seat belt pretensioners. Models without airbags have mechanical seat belt pretensioners.

- 3 On models without airbags proceed as follows:
 - a Pivot the white disabling tab from the recess in the seat belt assembly.
 - b Rotate the disabling tab one quarter of a turn in a clockwise direction. The pretensioner is disabled and safe to remove when the side of the disabling tab is facing up. Instructions on disassembling the unit is printed on it.

TO ENABLE**Airbags**

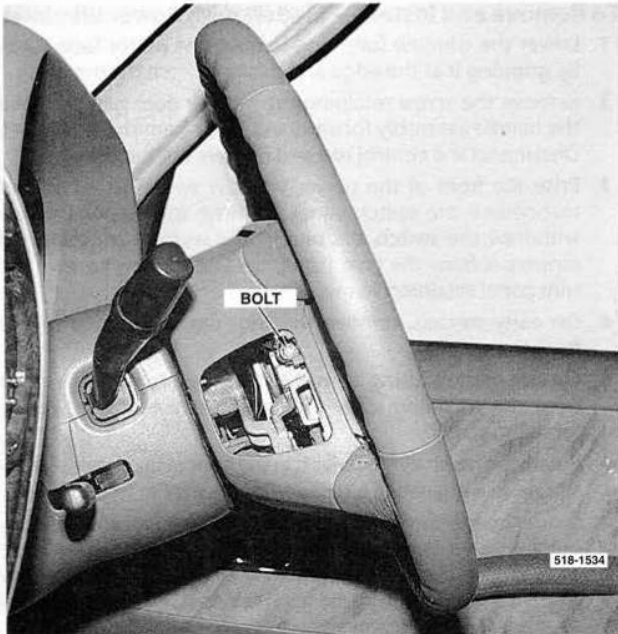
- 1 Securely connect the wiring connectors to the airbag(s).
- 2 Connect the negative battery terminal, ensuring that the terminal and post are clean and dry and tighten the retaining bolt securely.
- 3 Turn the ignition On and observe the SRS warning lamp. The warning lamp should stay on for approximately 6 seconds, while the control module checks the system, and if no faults are detected the lamp should extinguish.
- 4 If a fault is detected in the system, the warning lamp may fail to illuminate, or may stay on continuously. A constantly flashing warning lamp may also indicate a fault in the SRS system.

Seat belt Pretensioners

- 1 On models with an airbag, proceed as follows:
 - a With the battery still disconnected, connect the wiring connector to the base of the seat belt pretensioner.
 - b Slide the locking clip to the horizontal position, covering the wiring connector.
 - c Connect the negative battery terminal.
- 2 On models without an airbag, proceed as follows:
 - a Rotate the disabling tab one quarter of a turn in an anticlockwise direction.
 - b Pivot the disabling tab into the recess in the seat belt assembly.
- 3 Install the trim panel to the B pillar.

TO REMOVE AND INSTALL**Driver Airbag**

- 1 Disable the airbag by disconnecting the negative battery terminal and waiting at least 90 seconds.
- 2 Ensure that the steering wheel is in the straight ahead position and the key is removed from the ignition.
- 3 Prise the plugs covering the airbag retaining bolts from both sides of the steering wheel.
- 4 Using a T30 Torx socket, remove the two bolts retaining the airbag to the steering wheel.



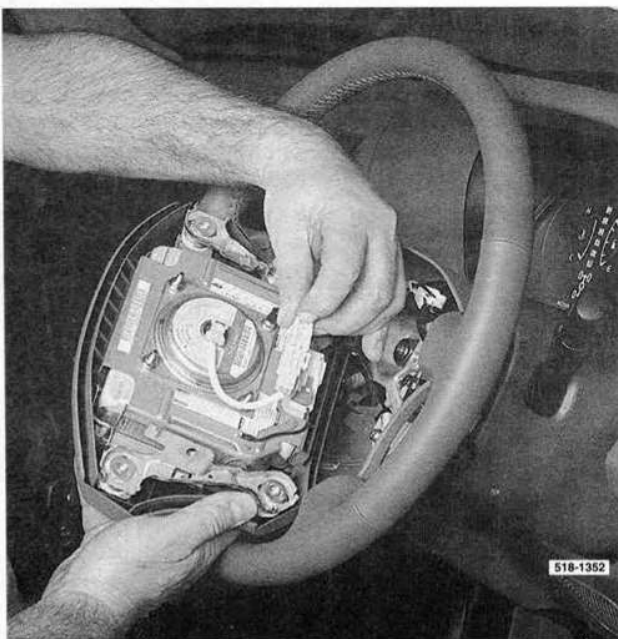
Steering wheel left side cover removed, showing the airbag retaining bolt. A similar cover is located on the right hand side of the steering wheel.



The bolts may need to be pulled outward partially to release the ends of the bolts from the airbag. There is no need to completely remove the bolts from the steering wheel.

- 5 Partially withdraw the airbag and disconnect the wiring connectors.
- 6 Remove the drivers airbag from the vehicle and place it on a clean surface with the trim cover facing upward.

Installation is a reversal of the removal procedure with attention to the following points:



Disconnecting the wiring from the drivers airbag.



Disconnecting the passenger side airbag connector.



If the steering column or steering gear have been disconnected for any reason make absolutely sure that the steering gear and then the clock spring are centred to avoid damage to fine ribbon wire inside. Refer to Steering (chapter 12) for more information on centring the clock spring.

- 1 Connect the airbag wiring connectors securely to the airbag.
- 2 Position the airbag onto the steering wheel and tighten the Torx bolts to 9 Nm.
- 3 Connect the negative battery terminal.

Passenger Airbag

- 1 Disable the airbag by disconnecting the negative battery terminal and waiting at least 90 seconds.
- 2 Open the glove compartment and prise down the panel from the top of the glove compartment roof panel.
- 3 Disconnect the airbag wiring connector.
- 4 Remove the dashboard as described later in this chapter.
- 5 Working at the rear of the dashboard, remove the nuts retaining the passenger airbag to the dashboard. Withdraw the airbag.

Installation is a reversal of the removal procedure with attention to the following points:

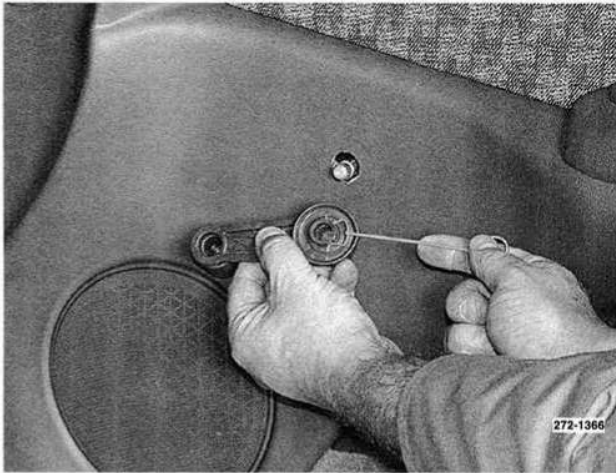
- 1 Install the airbag to the dashboard and tighten the retaining nuts to 18 Nm.
- 2 Position the wiring so that it can be installed to the glove compartment roof panel once the dashboard is installed.
- 3 Install the dashboard as described later in this chapter.
- 4 Connect the wiring to the passenger airbag connector and install the panel to the roof panel.
- 5 Connect the negative battery terminal.

Front Doors

INTERIOR HANDLES AND TRIM PANEL

To Remove and Install — Models without Power Windows

- 1 Lower the window fully, and remove the mirror facia panel, by gripping it at the edge and prising it from the door.



Rear of a regulator handle, showing where to hook a piece of wire to the clip.

- 2 Remove the screw retaining the interior door handle. Move the handle assembly forward and away from the trim panel. Disconnect the control rod and remove the handle.
- 3 Push the trim away from the regulator handle and using a suitable wire hook, withdraw the handle retaining clip and remove the handle and washer. Alternatively, remove the regulator handle using a clip removal tool.
- 4 Remove the screws from the armrest.
- 5 On late models, rotate the heads of the scrivenets in the front of the door trim anticlockwise a quarter of a turn and remove them from the door.
- 6 On early models, grasp the edge of the trim panel and carefully pull the panel away from the door, disengaging the retaining clips. Work around the outside of the door trim until all the clips are disengaged from the door.
- 7 On late models, grasp the lower outside edge of the trim panel and carefully pull the panel away from the door, disengaging the retaining clips. Work around the three lower sides of the door trim until all the clips are disengaged from the door. Lift the trim panel over the sniper button and withdraw it from the door.
- 8 Carefully peel the plastic sealing sheet away from the door, while cutting the sealant using a sharp knife. Remove the sealing sheet from the door. Store the sheet flat on a bench with the sealant facing up.

Installation is a reversal of the removal procedure with attention to the following points:

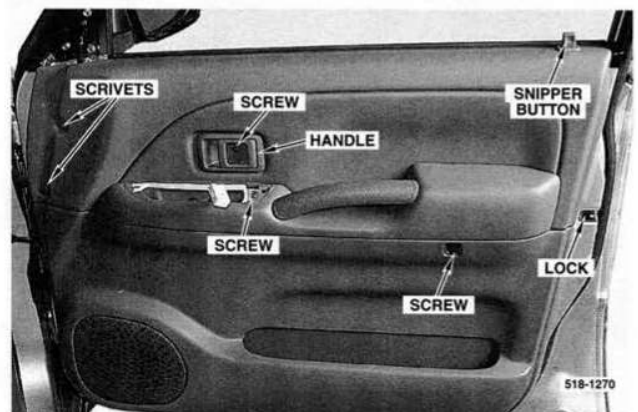
- 1 Position the sealing sheet on the door panel ensuring that the sealant used is in serviceable condition. If necessary apply a new thin bead of sealant such as Permatex clear RTV or similar.
- 2 Check the trim panel retaining clips and renew any damaged clips if necessary.
- 3 Install the trim panel carefully locating the retaining clips. Tighten the retaining screws securely. On late models install the scrivenets.
- 4 Connect the control rod to the door handle. Install the interior door handle in to the door and tighten the screw securely.
- 5 Install the clip to the regulator handle and install the handle and washer so that it matches the handle on the other door.

To Remove and Install — Models with Power Windows

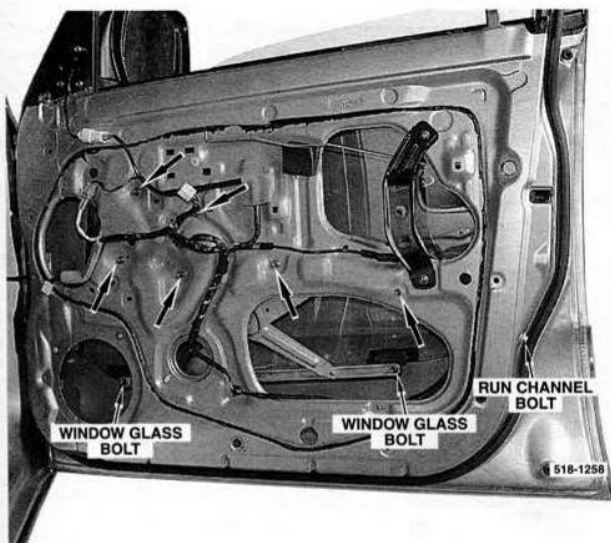
- 1 Lower the window fully, and remove the mirror facia panel by gripping it at the edge and prising it from the door.
- 2 Remove the screw retaining the interior door handle. Move the handle assembly forward and away from the trim panel. Disconnect the control rod and remove the handle.
- 3 Prise the front of the power window switch panel up and manoeuvre the switch panel from the trim panel. Partially withdraw the switch, disconnect the wiring connector and remove it from the trim panel. On late models remove the trim panel retaining screw.
- 4 On early models, remove the trim panel retaining screws from the armrest.
- 5 On late models, using a small screwdriver, remove the cover from the retaining screw below the armrest. Remove the retaining screw.
- 6 Rotate the heads of the scrivenets in the front of the door trim anticlockwise a quarter of a turn and remove them from the door.
- 7 Grasp the lower outside edge of the trim panel and carefully pull the panel away from the door, disengaging the retaining clips. Work around the three lower sides of the door trim until all the clips are disengaged from the door. Lift the trim panel over the sniper button and withdraw it from the door.
- 8 Carefully peel the plastic sealing sheet away from the door, while cutting the sealant using a sharp knife. Remove the sealing sheet from the door. Store the sealing sheet on a bench with the sealant facing up.

Installation is a reversal of the removal procedure with attention to the following points:

- 1 Position the sealing sheet on the door panel ensuring that the sealant used is in serviceable condition. If necessary apply a new thin bead of sealant such as Permatex clear RTV or similar.
- 2 Check the trim panel retaining clips and renew any damaged clips.
- 3 Install the trim panel to the door and firmly push around the edge to locate the trim panel on the door panel.
- 4 On early models, install the armrest and tighten the retaining screws securely. On late models tighten the retaining screws and install the screw cover below the armrest.
- 5 Install the scrivenets.
- 6 Connect the control rod to the door handle. Install the interior door handle to the door and tighten the screw securely.
- 7 Connect the wiring connector to the power window switch and install the switch panel to the door trim.



Front door trim. Retaining screw location late models with power windows.



Front door with trim panel and sealing sheet removed. The large arrows indicate the location of the window regulator bolts. Models with power windows shown, manual windows similar.

WINDOW GLASS

To Remove and Install

- 1 Remove the trim panel and sealing sheet as previously described.
- 2 Remove the bolt retaining the run channel to the door. Ease the channel rubber from the run channel and withdraw the run channel from inside the door.
- 3 Disconnect the speaker wiring connector. Remove the screws retaining the speaker to the door and withdraw the speaker.
- 4 Position the glass to expose the glass retaining bolts in the door panel apertures. On models with manual windows, temporarily install the window regulator handle to move the glass in the required position.



Removing the window glass from the door.

On models with power windows, temporarily connect the power window switch wiring, turn the ignition On and operate the window regulator motor.

- 5 While an assistant supports the glass, remove the bolts retaining the glass to the regulator.
- 6 Tilt the rear of the glass up and manoeuvre the glass through the opening at the top of the door.

Installation is a reversal of the removal procedure with attention to the following points:

- 1 Insert the glass into the door from the outside with the forward edge down, rotate and engage the glass in the front and rear run channels.
- 2 Ensure that the glass is aligned with the regulator, install and tighten the retaining bolts firmly.
- 3 Install the speaker and tighten the retaining screws. Connect the speaker wiring connector.
- 4 Install sealing sheet and trim panel as previously described.

WINDOW REGULATOR

To Remove and Install

- 1 Remove the trim panel, sealing sheet and window glass as previously described.
- 2 On models with power windows, disconnect the power window motor wiring connector.
- 3 Remove the retaining bolts and manoeuvre the regulator through the large opening in the door panel.



On models with power windows, the electric motor is part of the regulator assembly and cannot be purchased separately.

Installation is a reversal of the removal procedure with attention to the following points:

- 1 Install the regulator assembly and tighten the retaining bolts securely.
- 2 Install the window glass as previously described.
- 3 Install the sealing sheet and the trim panel as previously described.

EXTERIOR HANDLE AND LOCK CYLINDER

To Remove and Install

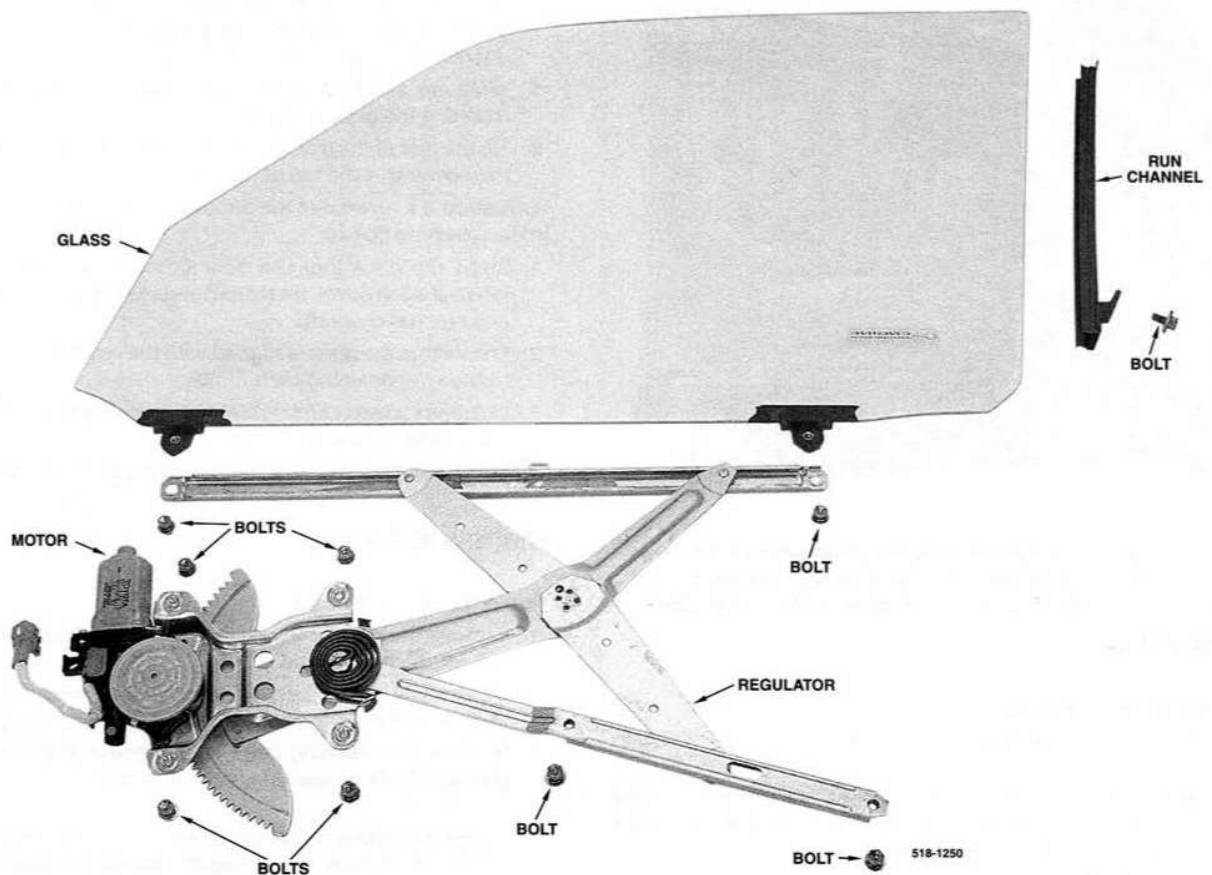
- 1 Wind the window up fully and remove the trim panel and sealing sheet as previously described.



It is not necessary to remove the speaker to remove the exterior handle.

- 2 Disconnect the control rod from the lock cylinder.
- 3 Peel the tape from the rear access hole and remove the bolts retaining the exterior handle. Partially manoeuvre the handle from the door panel.
- 4 Using a small flat bladed screwdriver, release the pivot shaft from the slide on the lock assembly and remove the exterior handle and lock cylinder.
- 5 If necessary, the lock cylinder can be removed by rotating it anticlockwise and then pulling from the rear of the handle.

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Power operated front window regulator and glass components.

Installation is a reversal of the removal procedure with attention to the following points:

- 1 Tighten the retaining bolts securely.
- 2 Ensure that the door handle and the lock cylinder operate correctly, before installing the trim panel.

DOOR LOCK

To Remove and Install

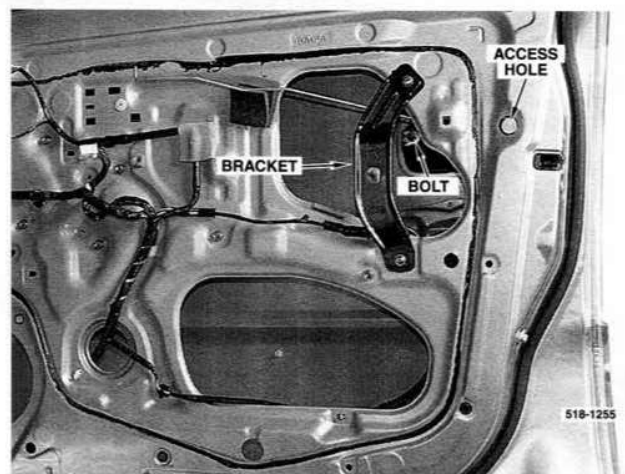
- 1 Wind the window up fully and remove the trim panel and sealing sheet as previously described.



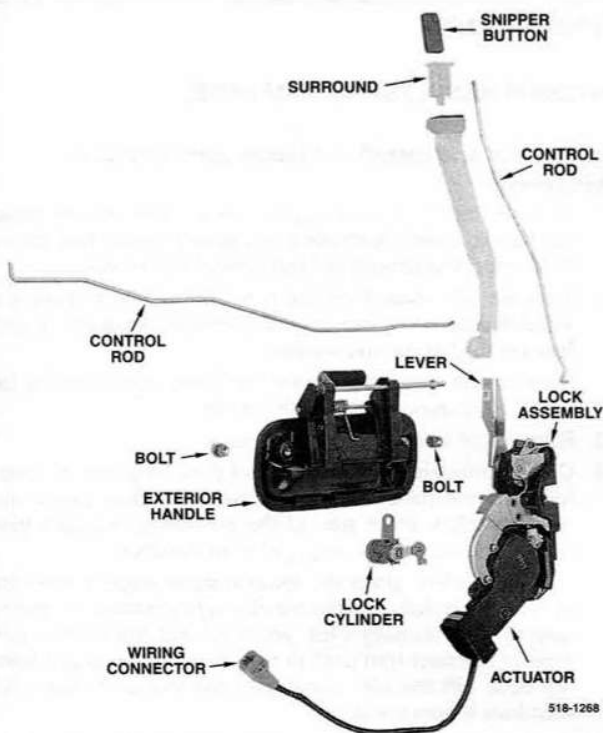
It is not necessary to remove the speaker to remove the door lock.

- 2 Remove the exterior door handle as previously described.
- 3 Pull the sniper button up so it clears the door and unscrew it from the control rod. Remove the sniper button surround from the door.
- 4 Remove the bolt retaining the run channel and manoeuvre the channel clear of the work area.
- 5 Remove the retaining screws and remove the bracket from the inside of the door.
- 6 Disconnect the wiring connectors from the door lock actuator and the lock switch.

- 7 Disconnect the interior door handle control rod from the door lock.
- 8 Using a T30 Torx socket, remove the bolts retaining the door lock and manoeuvre the lock assembly from the door.
- 9 If necessary, the actuator can be removed from the door lock by removing the retaining screws.



Trim panel and sealing sheet removed showing the exterior handle bolts. The second bolt can be accessed after removing the tape from the access hole.



Front door lock and handle components.

- 10 If necessary, the sniper button guide and control rod can be removed from the lock assembly.

Installation is a reversal of the removal procedure with attention to the following points:

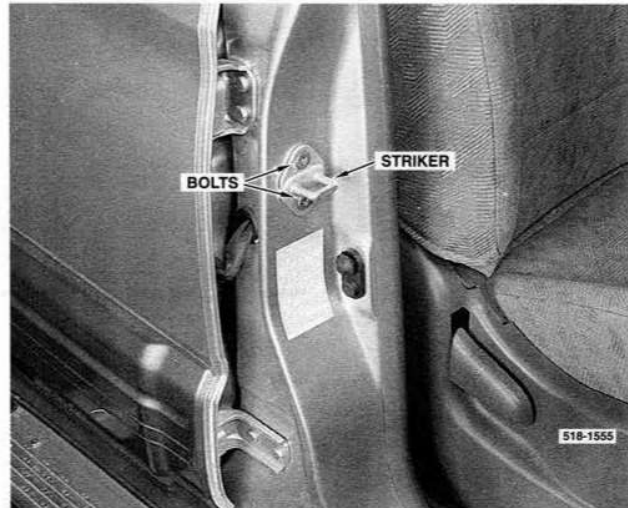
i Prior to installing the lock assembly apply a smear of multipurpose grease to all sliding and rotating parts of the lock.

- 1 If removed, install the actuator to the lock and tighten the screws securely.
- 2 If removed, install the sniper button control rod and guide onto the lock assembly.
- 3 Install the exterior door handle and tighten the retaining bolts securely.
- 4 Install the lock assembly guiding the sniper button control rod through the opening in the door. Install the retaining bolts and tighten securely but not excessively.
- 5 Install the lock assembly into the door cavity and connect the control rod to the exterior door handle pivot shaft. Connect the lock cylinder control rod.
- 6 Place the interior door handle control rod between the foam retainer and connect the end of the control rod to the lock assembly.
- 7 Connect the wiring connectors to the lock actuator and the lock switch.
- 8 Install the bracket and tighten the retaining screws securely.
- 9 Check the operation of the door lock mechanism before installing the sealing sheet and trim panel.
- 10 Install the surround, pull up the sniper button control rod and install the sniper button to the control rod.

LOCK STRIKER

To Renew and Adjust

- 1 Mark the position of the lock striker on the door pillar with a soft lead pencil to facilitate correct replacement of the lock striker.
- 2 Remove the bolts, using a T40 Torx socket, and remove the striker from the vehicle.



Location of the lock striker.

Installation is a reversal of the removal procedure with attention to the following points:

- 1 Install the lock striker.
- 2 Align the lock striker with the pencil marks and tighten the Torx bolts securely.
- 3 To adjust the door, proceed as follows:
 - a Close the door and observe the alignment with the rear door. If incorrect, loosen the striker retaining screws and move the striker in the desired direction to achieve correct alignment.
 - b If the door lifts or drops when the lock engages the striker, loosen the bolts and move the striker up or down as necessary until the door closes smoothly.
 After each adjustment tighten the striker retaining bolts and check the adjustment. Readjust as necessary.

EXTERIOR MIRRORS

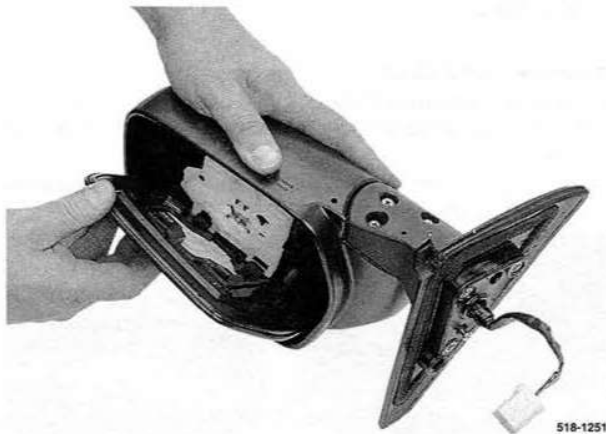
To Renew Mirror Glass

- 1 Adjust the mirror to the inner/uppermost position.
- 2 Insert a bent flat bladed screwdriver into the opening and carefully disengage the clips retaining the mirror glass to the base plate.

i Wear gloves if the glass is shattered. If difficulty is experienced accessing the retaining clip, remove the mirror from the door as described later in this heading.

- 3 Rotate the glass up to disengage the tangs and withdraw the glass from the plate.

Installation is a reversal of the removal procedure with attention to the following points:



Removing the exterior mirror glass.

- 1 Place the mirror with the tangs so that they engage the base plate and rotate the mirror down.
- 2 Carefully, but firmly press the mirror towards the base plate, until both retaining clips are fully engaged.
- 3 Check the operation of the mirror.

To Remove and Install

- 1 Lower the door window fully and prise the interior mirror cover panel from the door.
- 2 Remove the trim panel as previously described. Disconnect the wiring connector.
- 3 While supporting the mirror, remove the retaining bolts, lift and withdraw the exterior mirror.

Installation is a reversal of the removal procedure, with attention to the following points:

- 1 Install the mirror with the stud aligning the hole and install the retaining bolts securely.
- 2 Ensure that the wiring connector is securely connected and test the mirror before installing the door trim panel.



Exterior mirror installed, with trim panel and mirror cover removed.

Rear Doors

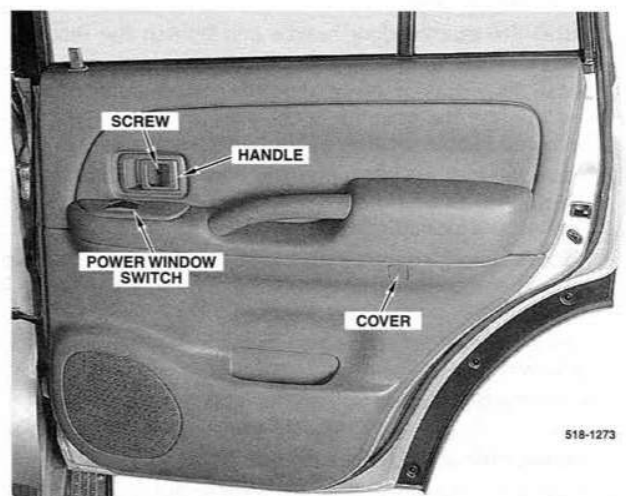
INTERIOR HANDLES AND TRIM PANEL

To Remove and Install — Models without Power Windows

- 1 Remove the screw retaining the interior door handle. Move the handle assembly forward and away from the trim panel. Disconnect the control rod and remove the handle.
- 2 Push the trim away from the regulator handle and using a suitable wire hook, withdraw the handle retaining clip and remove the handle and washer.
Refer to the illustration under the Front Door heading for more information on the retaining clip.
- 3 Remove the screws from the armrest.
- 4 On early models, grasp the edge of the trim panel and carefully pull the panel away from the door, disengaging the retaining clips. Work around the outside of the door trim until all the clips are disengaged from the door.
- 5 On late models, grasp the lower outside edge of the trim panel and carefully pull the panel away from the door, disengaging the retaining clips. Work around the three lower sides of the door trim until all the clips are disengaged from the door. Lift the trim panel over the snipper button and withdraw it from the door.
- 6 Carefully peel the plastic sealing sheet away from the door, while cutting the sealant using a sharp knife. Remove the sealing sheet from the door. Store the sheet flat on a bench with the sealant facing up.

Installation is a reversal of the removal procedure with attention to the following points:

- 1 Position the sealing sheet on the door panel ensuring that the sealant used is in serviceable condition. If necessary, apply a new thin bead of sealant such as Permatex clear RTV or similar. Store the sheet flat on a bench with the sealant facing up.
- 2 Check the trim panel retaining clips and renew any damaged clips.
- 3 Install the trim panel to the door and firmly push around the edge to locate the trim panel on the door. Tighten the retaining screws securely.



Late model rear door trim components. Early model similar.

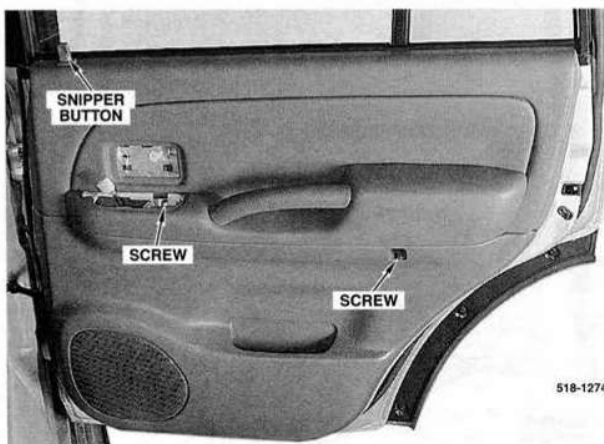
- 4 Install the clip to the regulator handle and install the handle and washer so that it matches the handle on the other door.
- 5 Connect the control rod to the door handle. Install the interior door handle in to the door and tighten the screw securely.

To Remove and Install — Models with Power Windows

- 1 On early models, remove the cover from the interior door handle.
- 2 Remove the screw retaining the interior door handle.
- 3 On early models, move the handle assembly forward and partially away from the trim panel. Disconnect the control rod and the wiring connector. Remove the handle.
- 4 On late models, move the handle assembly forward and away from the trim panel, disconnect the control rod and remove the handle.
- 5 On late models, prise the front of the power window switch panel up and partially remove the switch. Disconnect the wiring connector and remove the switch assembly. Remove the trim panel retaining screw.
- 6 On late models, using a small screwdriver, remove the cover from the retaining screw below the armrest. Remove the retaining screw.
- 7 On early models, remove the trim panel retaining screws from the armrest.
- 8 Grasp the lower outside edge of the trim panel and carefully pull the panel away from the door, disengaging the retaining clips. Work around the three lower sides of the door trim until all the clips are disengaged from the door. Lift the trim panel over the snipper button and withdraw it from the door.
- 9 Carefully peel the plastic sealing sheet away from the door, while cutting the sealant using a sharp knife. Remove the sealing sheet from the door. Store the sheet flat on a bench with the sealant facing up.

Installation is a reversal of the removal procedure with attention to the following points:

- 1 Position the sealing sheet on the door panel ensuring that the sealant used is in serviceable condition. If necessary, apply a new thin bead of sealant such as Permatex clear RTV or similar.
- 2 Check the trim panel retaining clips and renew any damaged clips if necessary.
- 3 Install the trim panel to the door and firmly push around the edge to locate the trim panel on the door.



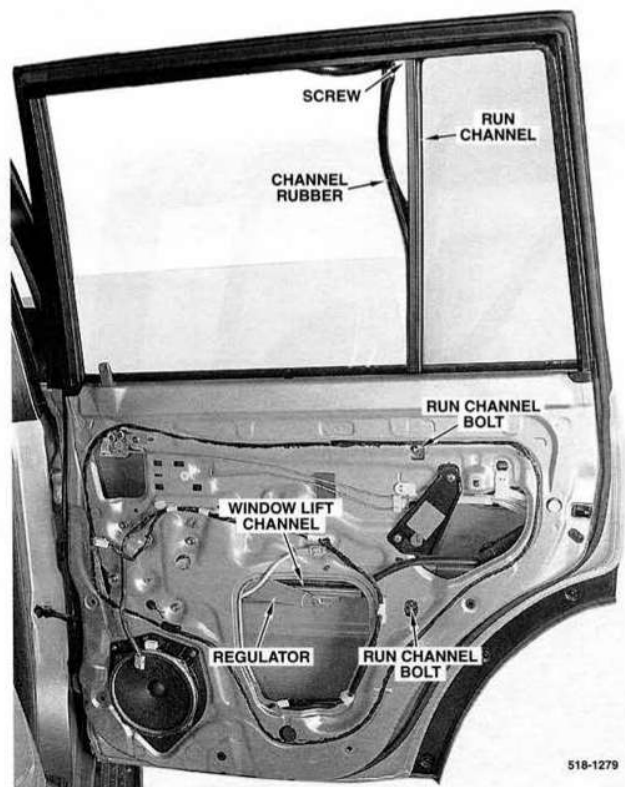
Location of late model rear door trim retaining screws. Power window control panel and interior handle removed.

- 4 On early models, install the armrest and tighten the retaining screws securely. On late models, tighten the retaining screws and install the screw cover below the armrest.
- 5 Connect the control rod to the door handle. Install the interior door handle to the door and tighten the screw securely.
- 6 Connect the wiring connector to the power window switch and install the switch panel to the door trim.

WINDOW GLASS

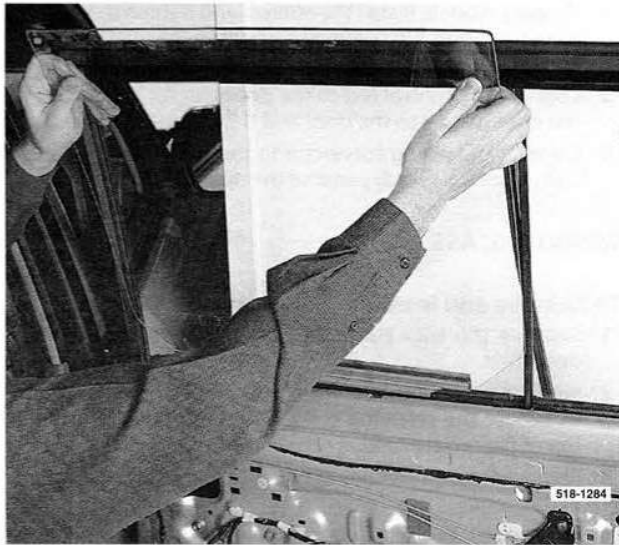
To Remove and Install

- 1 Remove the trim panel and sealing sheet as previously described.
- 2 Peel the channel rubber from the corner of the run channel to expose the retaining screw. Remove the screw from the top of the run channel.
- 3 Remove the bolts retaining the run channel to the lower part of the door.
- 4 Fully lower the glass. On models with manual windows, temporarily install the window regulator handle to move the glass in the required position.
On models with power windows, temporarily connect the power window switch wiring, turn the ignition On and operate the power window switch.
- 5 Tilt the run channel and ease the channel rubber from the run channel. Carefully remove the run channel through the top of the door.
- 6 Slide the window glass from the front run channel, disengaging it from the lift channel from the regulator.
- 7 Manoeuvre the glass through the opening in the top of the door.



Rear door trim panel and sealing sheet removed.

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Removing the rear window glass from the door.

Installation is a reversal of the removal procedure with attention to the following points:

- 1 Insert the glass into the door from the outside, tilt and engage the lift channel into the regulator.
- 2 Position the window glass into the front run channel.
- 3 Install the rear run channel into the door at an angle. Partly insert the channel rubber and straighten the channel while ensuring that it engages the window glass.
- 4 Install the retaining screw at the top of the run channel and the retaining bolts in the lower part of the door. Tighten the screw and bolts securely. Complete the insertion of the channel rubber.
- 5 Install the sealing sheet and the trim panel as previously described.



Removing the quarter window glass from the door.

QUARTER WINDOW

To Remove and Install

- 1 Remove the window glass as previously described.
- 2 Move the quarter window forward until it can be slightly lowered and tilted to remove it upward from the sealing rubber.

Installation is a reversal of the removal procedure with attention to the following points:

- 1 Ensure that the rubber surrounding the quarter window is in serviceable condition.
- 2 Position the quarter window forward of its installed position and carefully slide it back until fully seated in the door frame.
- 3 Install the window glass as previously described.

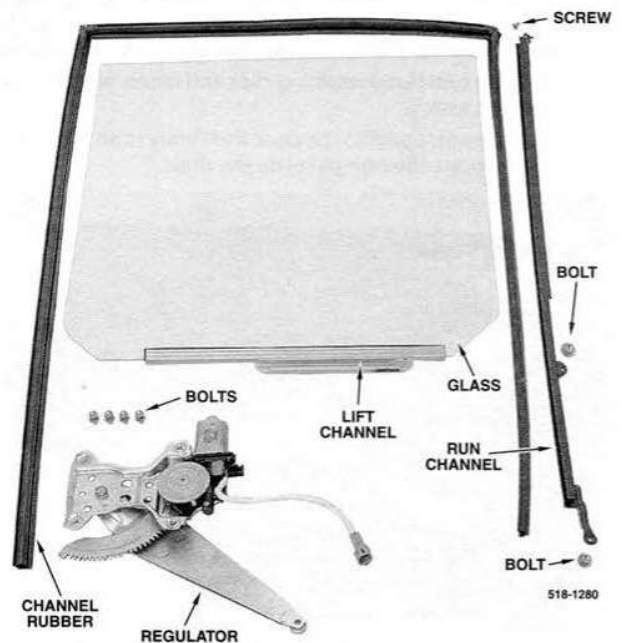
WINDOW REGULATOR

To Remove and Install

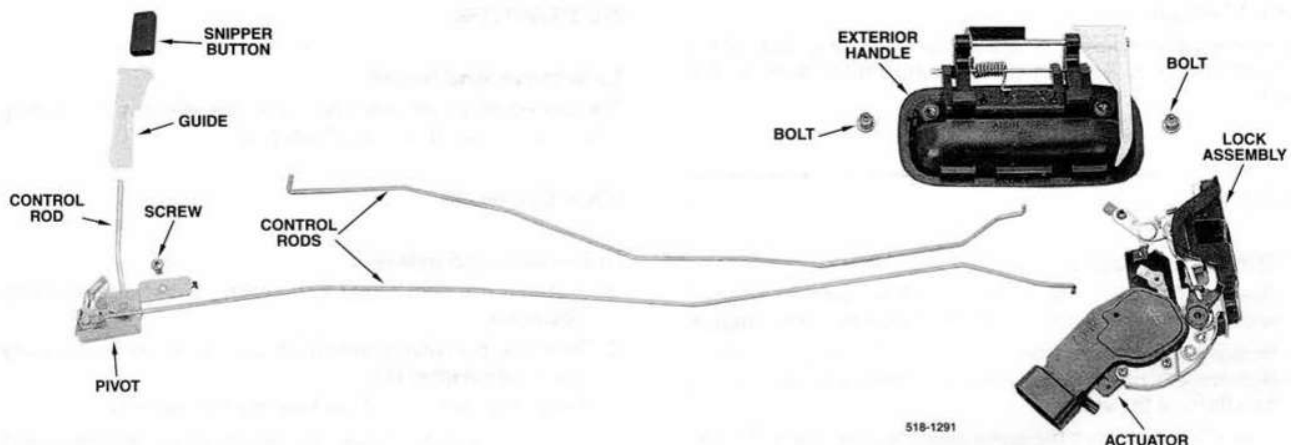
- 1 Remove the trim panel and the sealing sheet as previously described.
- 2 On models with power windows, disconnect the wiring connector to the power window motor and separate the wiring harness clips from the door. While supporting the glass, remove the bolts retaining the regulator to the door panel.
- 3 Manoeuvre the regulator assembly until the glass lift channel can be disengaged from the regulator. Lower the glass and let it rest in the lower most position.
- 4 Manoeuvre the regulator from the door cavity.

Installation is a reversal of the removal procedure with attention to the following points:

- 1 Install the regulator assembly with a rotating motion to engage the glass lift channel and tighten the regulator retaining bolts securely.
- 2 Install the sealing sheet and the trim panel as previously described.



Rear door window and regulator components.



Rear door lock and handle components.

EXTERIOR HANDLE

To Remove and Install

- 1 Wind the window up fully and remove the trim panel and sealing sheet as previously described.

TIP It is not necessary to remove the speaker to remove the exterior handle.

- 2 Peel the tape covering the rear access hole and remove the bolts retaining the exterior handle. Manoeuvre the handle from the door panel.

Installation is a reversal of the removal procedure with attention to the following points:

- 1 Tighten the retaining bolts securely.
- 2 Ensure that the door handle operates correctly, before installing the trim panel.

DOOR LOCK

To Remove and Install

- 1 Wind the window up fully and remove the trim panel and sealing sheet as previously described.
- 2 Remove the screws and remove the bracket from inside the door.

i It is not necessary to remove the speaker to remove the door lock.

- 3 Open the lower control rod guide and disconnect the sniper button and interior handle control rods from the door lock assembly.
- 4 Unscrew the sniper button from the control rod.
- 5 Remove the screw retaining the sniper button pivot. Remove the sniper button pivot and control rods from the door.
- 6 Remove the sniper button control rod guides from the door.
- 7 Disconnect the wiring connector from the door lock actuator.
- 8 Using a T30 Torx socket, remove the screws retaining the door lock and manoeuvre the assembly from the door cavity.

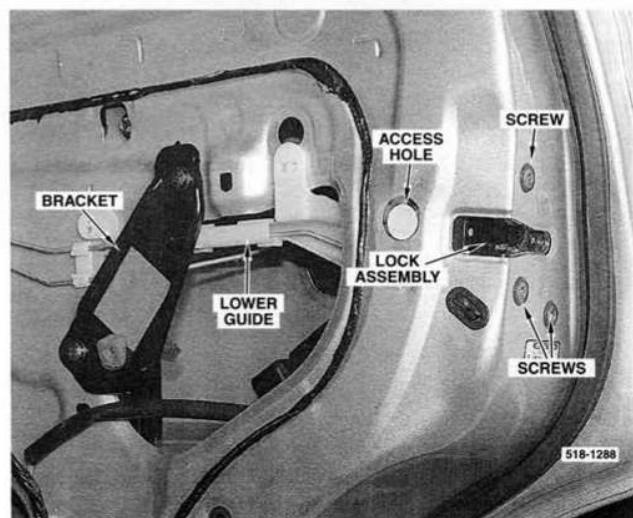
- 9 If necessary, the actuator can be removed from the door lock after removing the retaining screws.

Installation is a reversal of the removal procedure with attention to the following points:

- 1 If removed, install the actuator to the lock assembly and tighten the screws securely.

i Prior to installing the lock assembly, apply a smear of multipurpose grease to all sliding and rotating parts of the lock.

- 2 Install the lock assembly to the door ensuring that the fork engages the exterior door handle. Install the retaining screws and tighten securely.
- 3 Install the interior door handle control rod to the lock assembly.
- 4 Install the sniper control rod guide to the door and install the sniper control rod to the lock.
- 5 Install the sniper pivot and the sniper guide. Tighten the screw securely. Install the sniper button.
- 6 Connect the actuator wiring connector securely.
- 7 Check the operation of the door lock mechanism before installing the sealing sheet and trim panel.



Rear door lock installed.

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LOCK STRIKER

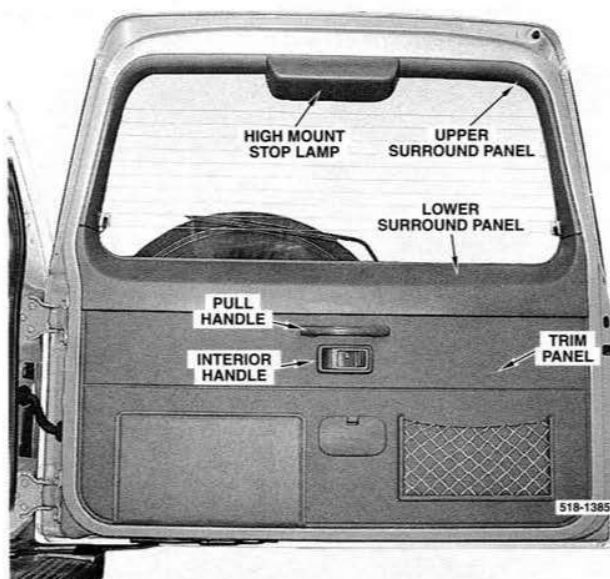
The renewal and adjustment procedure is similar to that of the front door striker. Refer to the heading Front Door, in this chapter.

Tailgate**INTERIOR TRIM PANEL**

- 1 Open the tailgate and using a small screwdriver covered with tape, lever the lower surround panel from the tailgate.
- 2 Remove the covers from each end of the pull handle. Remove the pull handle retaining screws and remove the handle from the vehicle.
- 3 Where fitted, remove the screw retaining the interior handle and move the handle assembly to the left and partially away from the tailgate. Disconnect the control rods from the handle assembly.
- 4 Using a screwdriver covered with tape, prise the trim panel from the tailgate.
- 5 Carefully peel the plastic sealing sheet away from the tailgate, while cutting the sealant using a sharp knife. Move the sealing sheet clear of the tailgate and store the sheet flat on a bench with the sealant facing up.

Installation is a reversal of the removal procedure with attention to the following points:

- 1 Install the sealing sheet. If necessary apply a new thin bead of sealant such as Permatex clear RTV or similar.
- 2 Place the trim panel over the control rods and connect the control rods to the handle assembly.
- 3 Align the retainers at the back of the trim panel with the tailgate and firmly push the trim panel, working around the edge of the panel until all the retainers are secure.
- 4 Install the interior handle assembly and tighten the screw securely.
- 5 Install the pull handle, tighten the screws securely and install the covers.



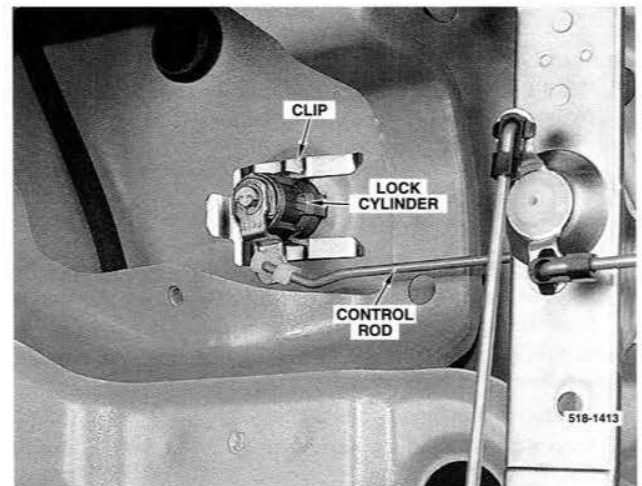
Tailgate interior components.

WIPER MOTOR**To Remove And Install**

The procedure to remove and install the wiper motor is fully described in Body Electrical (chapter 16).

LOCK CYLINDER**To Remove and Install**

- 1 Remove the trim panel and sealing sheet as previously described.
- 2 Remove the wiper motor. If necessary, refer to Body Electrical (chapter 16).
- 3 Disconnect the control rod from the lock cylinder.
- 4 Support the lock cylinder on the outside of the tailgate and lever the clip from the lock cylinder using a screwdriver.
- 5 Withdraw the lock cylinder from the tailgate.



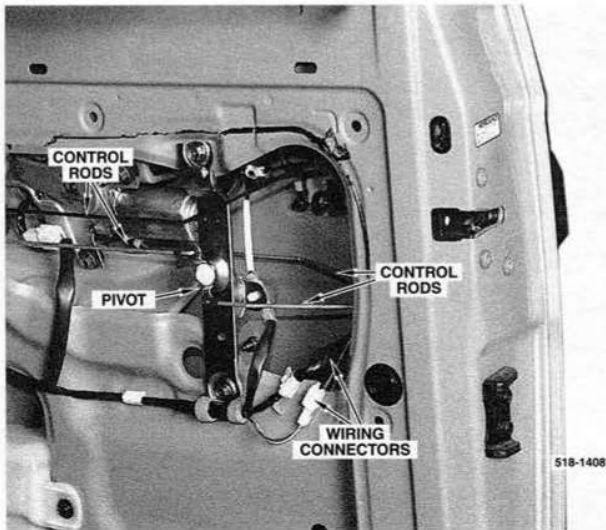
Tailgate lock cylinder, viewed from the inside of the tailgate.

Installation is a reversal of the removal procedure with attention to the following points:

- 1 Align the ridges on the lock cylinder with the slots in the tailgate.
- 2 Install the lock cylinder to the tailgate and slide the clip inside the tailgate in the grooves on the lock cylinder. Ensure that the clip is pushed in, until the ridges on the clip securely engage the lock cylinder.
- 3 Connect the control rod to the lock cylinder.
- 4 Install the wiper motor. Refer to Body Electrical (chapter 16).
- 5 Install the sealing sheet and trim panel as previously described.

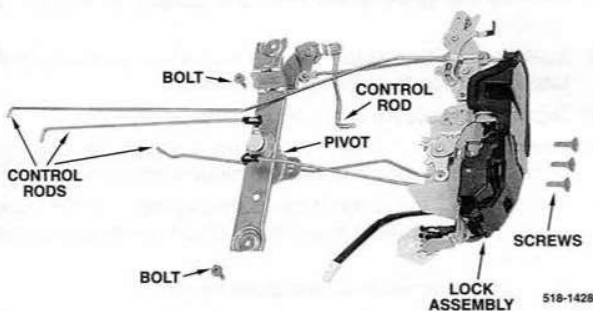
LOCK ASSEMBLY**To Remove and Install**

- 1 Remove the trim panel and sealing sheet as previously described.
- 2 Disconnect the interior handle control rod, between the pivot and the lock, from the lock assembly.
- 3 Disconnect the control rods from the interior handle, exterior handle, lock cylinder and lock assembly.



Tailgate trim panel removed, showing the lock assembly components.

- 4 Remove the retaining bolts and remove the pivot assembly from the tailgate.
- 5 Disconnect the wiring connectors from the lock assembly.
- 6 Using a T30 Torx socket, remove the retaining screws and remove the lock assembly from the tailgate.



Tailgate lock assembly components.

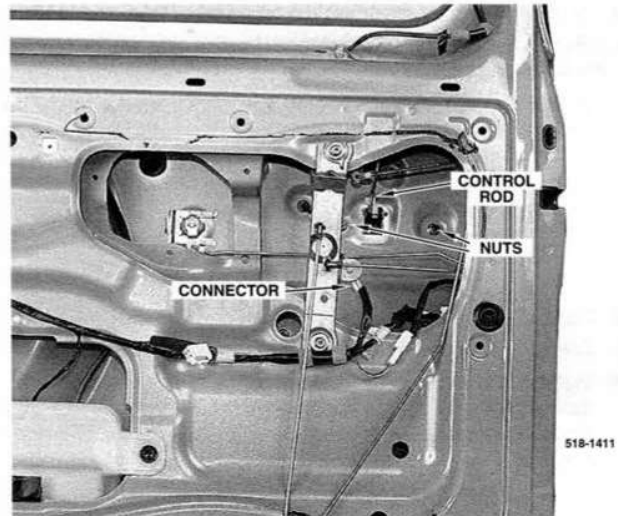
Installation is a reversal of the removal procedure with attention to the following points:

- 1 Ensure that the wiring connectors are securely connected.
- 2 If necessary, renew the control rod retaining clips prior to installation.

EXTERIOR HANDLE

To Remove and Install

- 1 Remove the trim panel and sealing sheet as previously described.
- 2 Disconnect the control rod from the exterior handle.
- 3 Disconnect the number plate lamp wiring connector from the rear of the pivot bracket. Pass the grommet through the rear of the tailgate.
- 4 Remove the nuts retaining the exterior handle assembly to the tailgate and withdraw the assembly from the tailgate, disengaging the clips at the top of the surround. Pull the wiring through the tailgate.

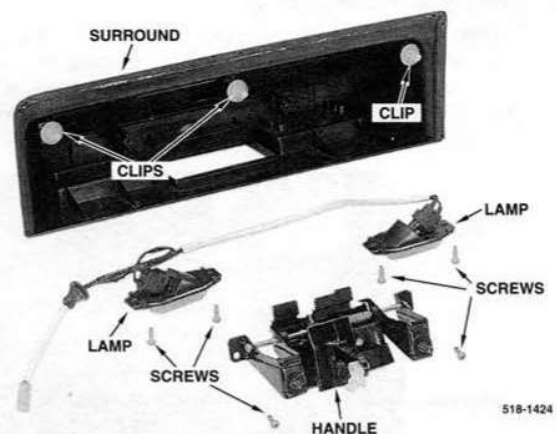


Tailgate exterior handle retaining nuts location, viewed with the trim panel and sealing sheet removed.

- 5 If necessary, the handle and the number plate lamp assemblies can be removed from the surround.

Installation is a reversal of the removal procedure with attention to the following points:

- 1 If dismantled, assemble the handle and lamps to the surround.
- 2 Partially install the assembly to the tailgate, pushing the wiring through the hole and securing the grommet in place.
- 3 Align the clips on the surround with the tailgate and press the surround into the tailgate.
- 4 Ensure that the nuts are securely tightened and that the control rod is securely connected to the handle.
- 5 Connect the wiring connector for the number plate lamps.
- 6 Install the trim panel as previously described.



Tailgate exterior handle and associated components.

LOCK STRIKER

To Renew and Adjust

- 1 Mark the position of the lock striker assembly on the vehicle with a lead pencil to facilitate correct replacement of the striker assembly.

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2 Remove the bolts retaining the lock striker from the vehicle. Installation is a reversal of the removal procedure with attention to the following points:

- 1 Install the striker according to the pencil marks made on removal and tighten the retaining bolts sufficiently to just hold it in position.



The lock striker can be adjusted up and down, and forward and backward.

- 2 Carefully close the tailgate and push it firmly shut.
- 3 Carefully open the tailgate without moving the lock striker.
- 4 Tighten the lock striker retaining bolts firmly. Close the tailgate again and check the alignment of the tailgate and smooth operation of the lock. If necessary, loosen the bolts and move the lock striker as necessary until the alignment and lock operation is correct.

STOPPER**To Renew and Adjust**

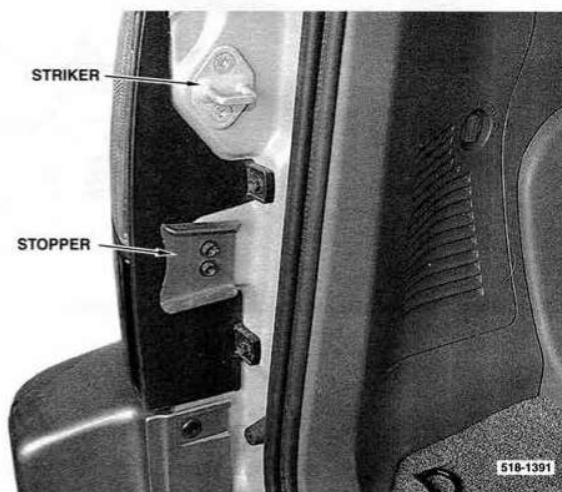
- 1 Mark the position of the stopper on the vehicle with a lead pencil to facilitate correct replacement of the stopper.
- 2 Remove the bolts retaining the stopper from the vehicle. Installation is a reversal of the removal procedure with attention to the following points:

- 1 Install the stopper according to the pencil marks made on removal and tighten the retaining bolts sufficiently to just hold it in position.



The stopper can be adjusted up or down only.

- 2 Carefully close the tailgate and push it firmly shut.
- 3 Carefully open the tailgate without moving the stopper.
- 4 Tighten the stopper retaining bolts firmly. Close the tailgate again and check the alignment of the tailgate and smooth operation of the lock. If necessary, loosen the bolts and move the stopper as necessary until the alignment and lock operation is correct.



Tailgate stopper location.



Tailgate hinge location.

TAILGATE HINGES**To Renew and Adjust**

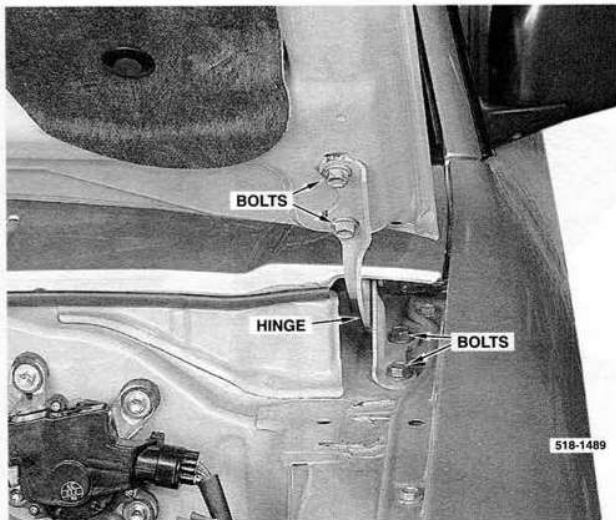
If the hinges need renewing it is best done one by one.

- 1 Remove the spare wheel from the tailgate to reduce the weight.
- 2 Mark the position of the tailgate with a lead pencil to facilitate installation to the original position.
- 3 Support the tailgate with a block of wood on a jack.
- 4 While an assistant provides extra support, remove the retaining bolts and withdraw the hinge from the vehicle.
- 5 Ensuring that the hinge is correctly aligned with the marks made during removal, install and tighten the retaining bolts securely.
- 6 Repeat the procedure for the other hinge.
- 7 Carefully close the tailgate to check the alignment of the tailgate to the body. If necessary loosen the hinge retaining bolts and adjust the tailgate alignment. When the alignment is correct, tighten the retaining bolts securely.

Bonnet**TO REMOVE AND INSTALL**

- 1 Raise the bonnet and place covers on both front mudguards. Also place some heavy cloth behind the rear corners of the bonnet to prevent damage.
- 2 Mark around the bonnet hinge plates on the bonnet with a lead pencil to facilitate installation.
- 3 Disconnect the windscreen washer hose from the right hand inner guard.
- 4 With the aid of an assistant, support the bonnet on both sides.
- 5 Remove the bolts retaining the hinges to the bonnet and lift the bonnet clear of the vehicle.

Installation is a reversal of the removal procedure with attention to the following points:

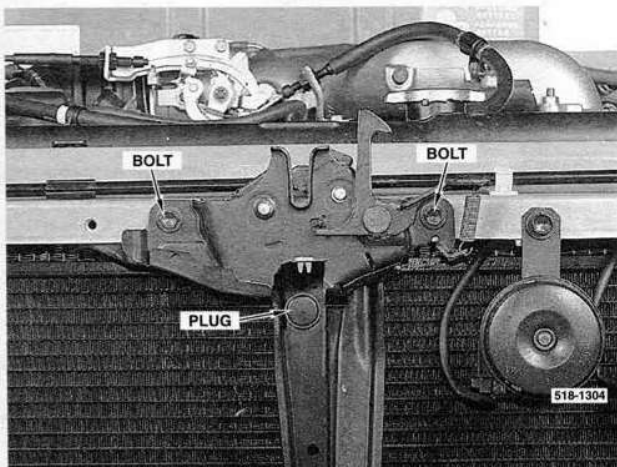


Location of the bonnet hinge retaining bolts.

- 1 With the bonnet aligned to the marks made during removal, install the bonnet retaining bolts and tighten securely.
- 2 Connect the windscreen washer hose to the right hand inner guard.
- 3 Carefully close the bonnet, checking that the alignment is correct. Loosen the bolts and readjust as necessary.
- 4 Check the alignment of the front bonnet edge. If necessary adjust the bonnet height by adjusting the lock.
- 5 Check the bonnet lock. When the lock is released the bonnet should pop up sufficiently to enable the fingers to release the safety catch and raise the bonnet.

TO ALIGN

Only horizontal adjustment of the bonnet is provided. A slight vertical adjustment of the front of the bonnet can be carried out by either turning the rubber bump stops, located on the radiator support panel, or adjusting the lock assembly as required. To align the bonnet horizontally, loosen the bonnet hinge retaining bolts sufficiently to allow the bonnet to be moved. Correct alignment is achieved when the spacing of the bonnet and adjacent panels are even.



Grille removed showing the bonnet lock.

BONNET LOCK

To Remove and Install

- 1 Remove the grille as follows:
 - a Remove the screw retaining the middle top of the grille.
 - b Release the clips securing the grill to the headlamp assemblies by pulling the clip tabs forward.
 - c Lift the grille from the clips and remove from the vehicle.
- 2 Using a small screwdriver, remove the security plug covering the lower bonnet lock retaining bolt.
- 3 Remove the bolts retaining the bonnet lock assembly and partially remove the lock.
- 4 Lever the outer cable from the bonnet lock bracket.
- 5 Disconnect the inner cable from the lock lever and withdraw the lock assembly.

Installation is a reversal of the removal procedure, ensuring that the inner and outer cables are securely connected.

TO RENEW RELEASE CABLE

- 1 Remove the bonnet lock as previously described.
- 2 Release the cable from the retainers securing the cable to the inner mudguard.
- 3 Withdraw the cable from the conduit located beneath the upper radiator support panel.
- 4 Working inside the vehicle, remove the screws retaining the bonnet release lever to the lower dash panel. Push it towards the front of the vehicle and remove the release lever from the lower dash panel.
- 5 Remove the sealing grommet from the firewall and withdraw the cable assembly through the inside of the vehicle.



The release lever and the cable are supplied as a unit and cannot be separated.

Installation is a reversal of the removal procedure with attention to the following points:

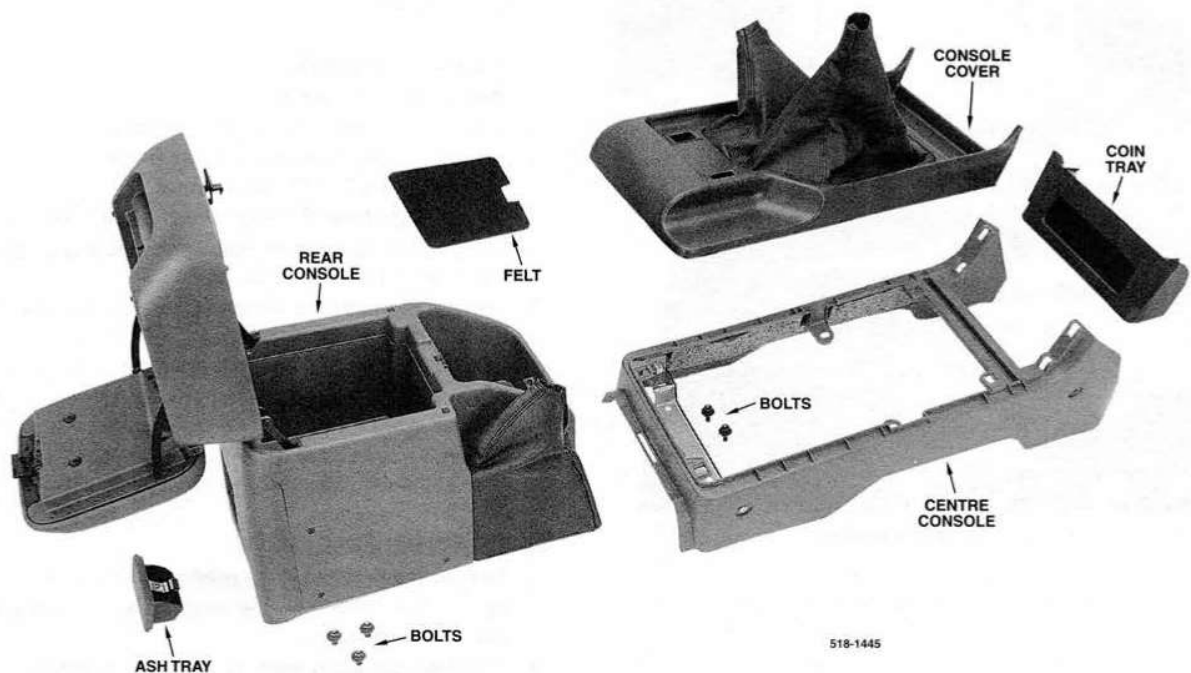
- 1 Working inside the vehicle, place the release cable into the hole in the firewall. Pull the cable through and install the sealing grommet.
- 2 Install the release lever and tighten the screws securely.
- 3 Install the cable through the conduit beneath the upper radiator support panel.
- 4 Install the bonnet lock as previously described.

Centre Console

TO REMOVE AND INSTALL

- 1 Adjust both front seats to their rear most position.
- 2 Fold the drink retainer up and remove the felt cover from the front of the rear console. Open the rear console lid and remove the bolts retaining the console to the floor.
- 3 On models with rear air conditioning, partially lift the rear console and disconnect the wiring connector.
- 4 Ensure that the handbrake lever is in the upper most position and manoeuvre the rear console from the vehicle.
- 5 Remove the transfer shift lever knob. On manual transmission models, also remove the gear shift lever knob.

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Centre console components.

- 6 Prise the console cover loose and, on automatic transmission models, raise the cover sufficiently to disconnect the wiring connector. Manoeuvre the cover from the vehicle.
- 7 Remove the scrivenets at the front of the console by pushing the centre pins in and then withdrawing the retainers.
- 8 Prise the coin tray away from the dashboard and withdraw it from the vehicle.
- 9 Remove the retaining screws from the rear of the console and manoeuvre the console from the vehicle.

Installation is a reversal of the removal procedure, ensuring that the wiring connector(s) are securely connected.

- 4 Disconnect the cable from the fuel door lock and tie a length of string to it.



The string has to be long enough to reach from the rear to the front and across the vehicle.

- 5 Working in front of the front passenger seat pull the cable toward the front of the vehicle until the string appears.
- 6 Working in front of the driver seat withdraw the cable across the vehicle.
- 7 Withdraw the cable toward the front of the vehicle.

Installation is a reversal of the removal procedure ensuring that the cable is not kinked or follows excessive tight corners.

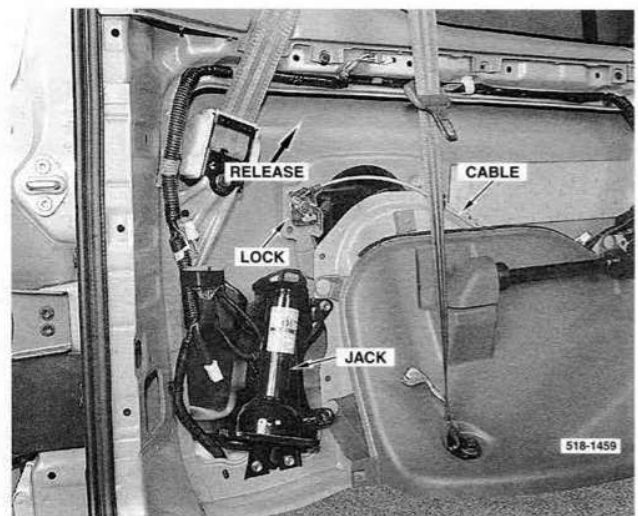
Fuel Filler Door

EMERGENCY RELEASE PROCEDURE

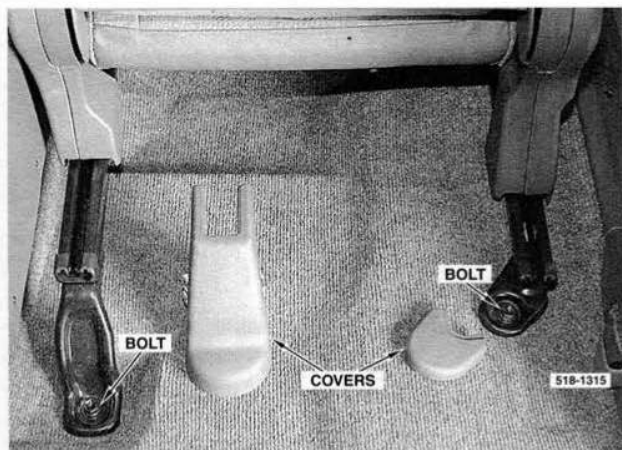
Inside the luggage compartment, open the tool compartment and remove the tool pouch. Reach in behind the cover and push the fuel door release lever up.

TO RENEW RELEASE CABLE

- 1 Remove the screws retaining the fuel door release handle to the lower dash panel.
- 2 Remove the driver side kick panel and scuff plate, passenger side front and rear door scuff plates, and the centre console.
- 3 Remove the passenger side trim panel from the luggage compartment as follows:
 - a Remove the retaining screws and the tailgate scuff plate.
 - b Remove the tool compartment cover.
 - c Disconnect the power outlet wiring connector.
 - d Remove the left hand seat from the luggage compartment.
 - e Withdraw the trim panel.



Location of the fuel door release cable.



Front seat rear retaining bolts and covers.

Seats

FRONT SEATS

To Remove and Install

- 1 Adjust the seat to the most rearward position. Remove the mounting bolt covers and remove the front seat mounting bolts.
- 2 Adjust the seat to the most forward position. Remove the covers and then remove the rear seat mounting bolts.

- 3 Disconnect the seat belt warning lamp wiring connector and where fitted, disconnect the power seat wiring connector and carefully manoeuvre the seat from the vehicle.

Installation is a reversal of the removal procedure with attention to the following points:

- 1 Sparingly lubricate the seat slides with multipurpose grease prior to installation of the seat.
- 2 Check the operation of the recliner mechanism prior to installation of the seat.
- 3 Install all of the mounting bolts prior to tightening the bolts securely.
- 4 Ensure that the front mounting bolt cover is positioned correctly and, where fitted, connect the power seat wiring connector.

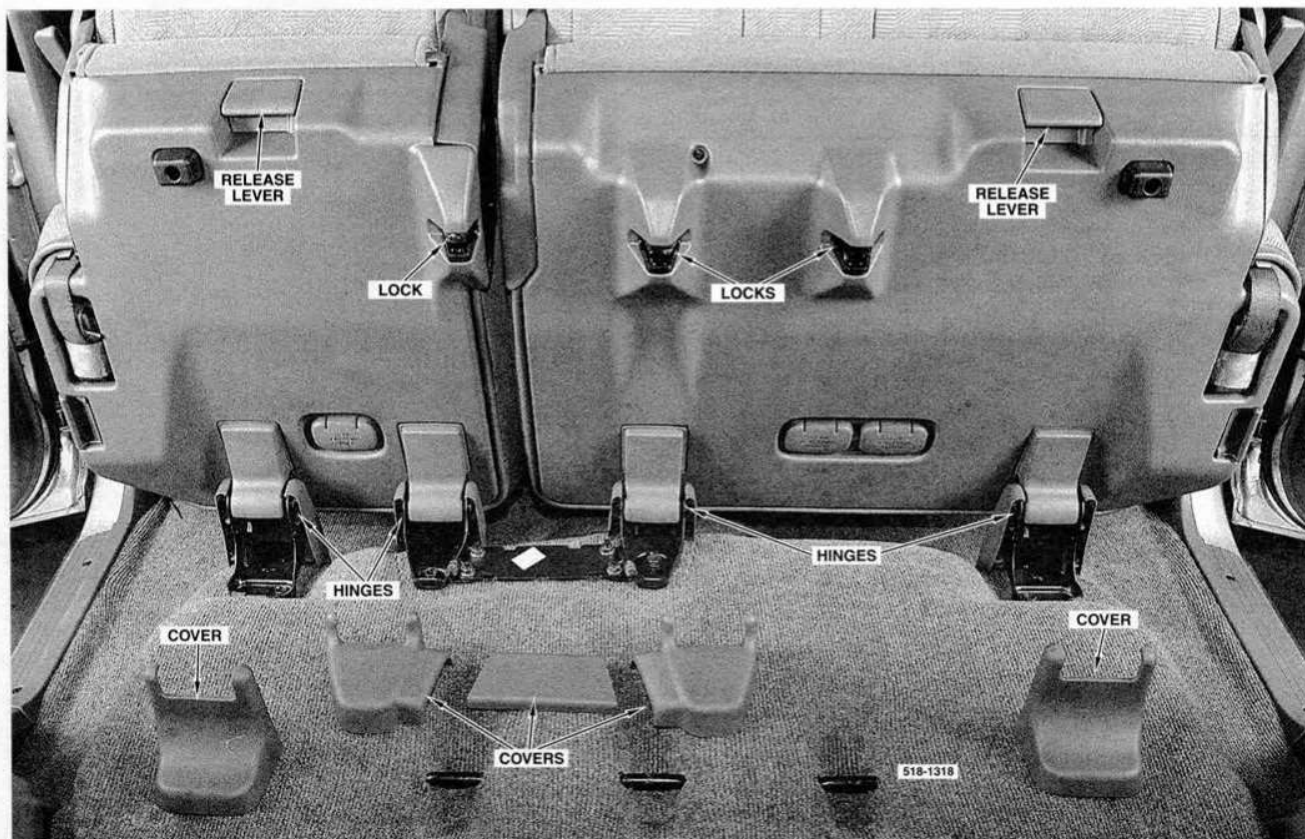
REAR SEATS

To Remove and Install

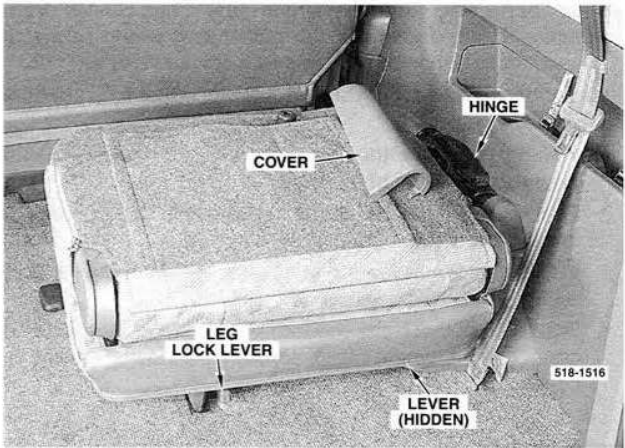
- 1 Release the locking lever and fold the rear seat back rest down.
- 2 Pull the release lever and tilt the seat forward.
- 3 Prise the hinge covers from the hinges.
- 4 Remove the bolts retaining the seat to the floor and manoeuvre the seat from the vehicle.

Installation is a reversal of the removal procedure with attention to the following points:

- 1 Position the centre seat belts on top of the rear seat cushion prior to installation of the seat.



Location of the rear seat hinges.



Third seat hinge cover removed showing the location of the leg lock lever and the hinge release lever.

- 2 Position the seats on the floor and install the retaining bolts.
- 3 Tighten the retaining bolts securely and install the covers.

THIRD SEATS

To Remove and Install

- 1 Remove hinge cover and fold the backrest down.
- 2 Release the hinge and leg locks and while lifting the seat slightly, slide the seat forward.
- 3 Manoeuvre the seat from the hinge and remove the seat from the vehicle.

Installation is a reversal of the removal procedure ensuring that the seat belts are kept clear when installing the seat to the vehicle.

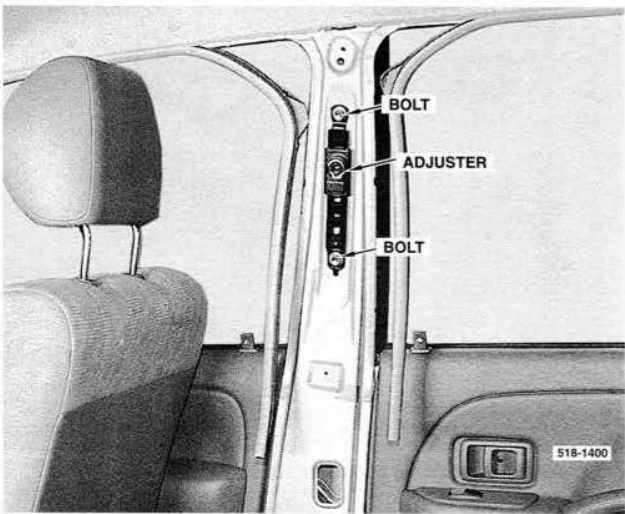
Seat Belts



Disable pretensioners before removing the front seat belt inertia reels. Refer to the Airbags and Seat Belt Pretensioners heading in this chapter.



Ensure that the top seat belt anchor is installed correctly to the lock on models with height adjustable seat belts.

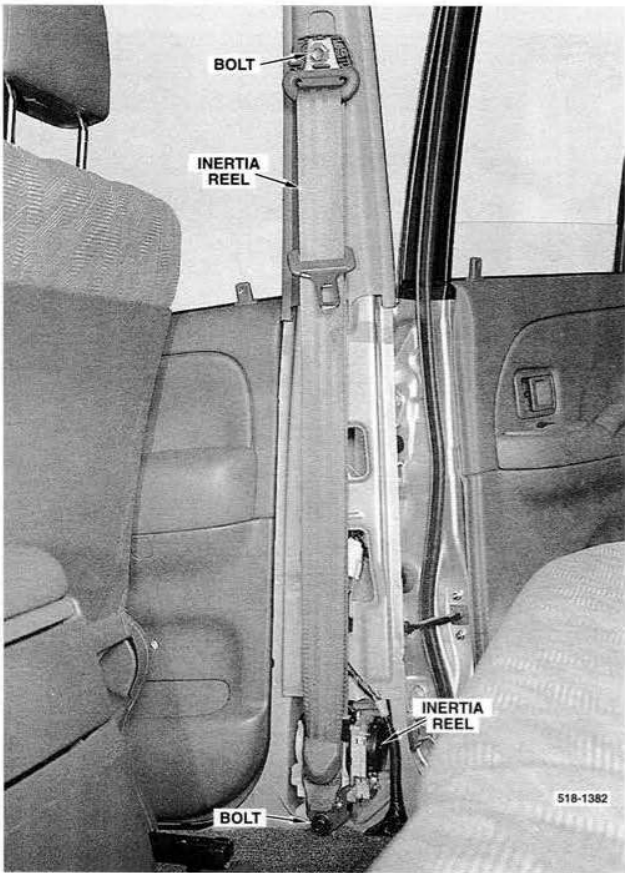


Location of the height adjuster.

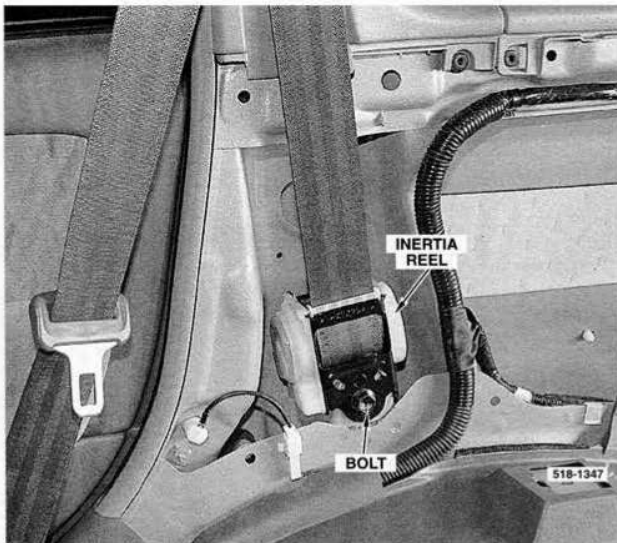
The front and rear outer seats are equipped with lap/sash inertia reel seat belts, which are designed to lock with any sudden change in vehicle motion.

The rear and third centre seats are equipped with lap seat belts. The seat belts should be periodically inspected as described under the Routine Maintenance heading in this chapter.

Child restraint anchorages are located on the floor behind the rear seats.



Front seat belt with B pillar trim panel removed.



Location of the rear seat inertia reel retaining bolt, shown with the rear quarter trim panel removed.

These anchorages must be used if a child's seat or capsule is installed to the vehicle. The anchorages should not be used for adult seat belts or harnesses.

On models with a passenger airbag, do not install any child restraint system on the front seat. In the event of a collision, an inflating airbag could cause serious injury to the child.

Dashboard

TO REMOVE AND INSTALL

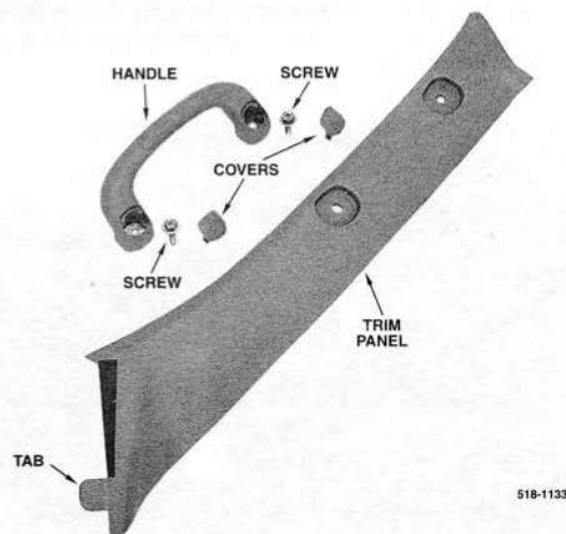
- 1 Disconnect the negative battery terminal.

i On models with airbags, the airbags will be disabled 90 seconds after disconnecting the battery terminal.

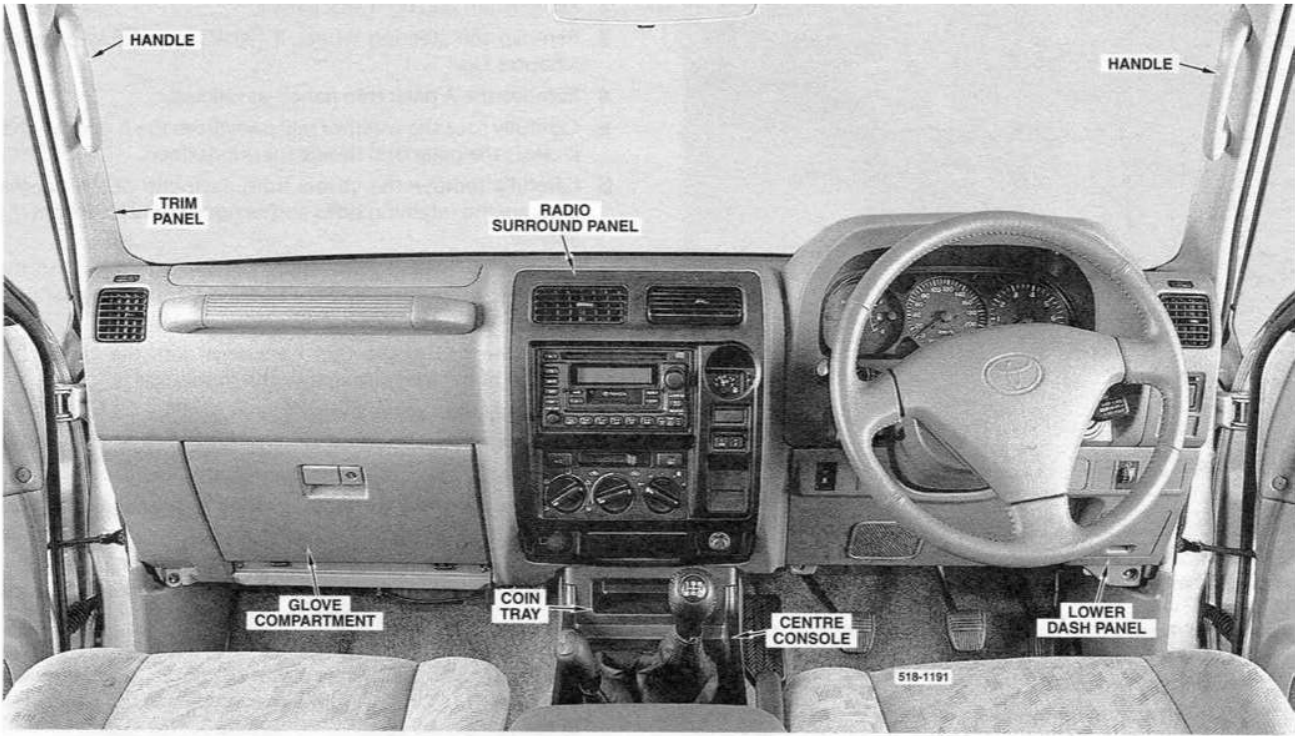


Location of the third seat inertia reel retaining bolt, shown with the rear quarter trim panel removed.

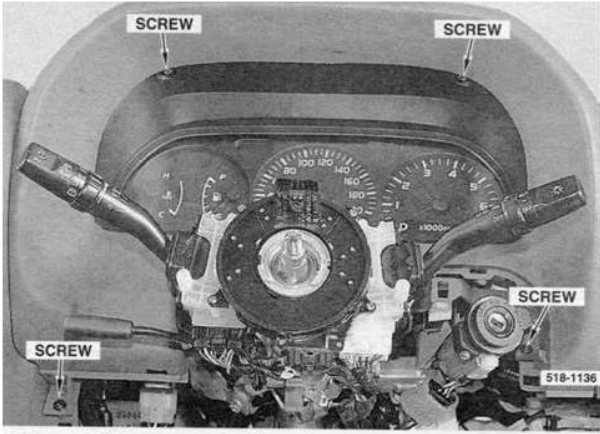
- 2 Remove left and right kick panels.
- 3 Remove the steering wheel. If necessary refer to Steering (chapter 12).
- 4 Remove the A pillar trim panels as follows:
 - a Carefully ease the weather seal away from the A pillar so that it clears the pillar trim beside the windscreen.
 - b Carefully remove the covers from each end of the handle. Remove the retaining bolts and remove the handle from the vehicle.
 - c Insert a flat bladed screwdriver between the trim and the pillar and lever the top of the trim away from the pillar until the clips are free.
 - d Move the top of the trim backward until the tab at the bottom of the trim disengages the dashboard.
 - e Place the trim clear of the work area.
 - f Repeat the procedure on the opposite side of the vehicle.
- 5 Remove the lower dash panel as follows:
 - a Remove the screw and bolt retaining the panel to the dashboard.
 - b Remove the screws retaining the fuel door and bonnet release levers. Push the levers toward the front of the vehicle and manoeuvre the levers from the panel.
 - c Gently pull the bottom of the panel back to release the clips from the dashboard. Partly lower the panel and disconnect the fuel select switch and the rheostat. Place the panel clear of the work area.
- 6 Remove the steering column covers. If necessary refer to Steering (chapter 12).
- 7 Remove the ignition lock surround panel.
- 8 Remove the heater duct below the steering column.
- 9 Remove the instrument cluster as described in Body Electrical (chapter 16).
- 10 Remove the glove compartment as follows:
 - a Remove the screw and bolt retaining the glove compartment hinge to the dashboard.
 - b Manoeuvre the glove compartment from the dashboard.
- 11 Remove the screws retaining the glove compartment roof. Remove the panel. On models with airbags, disconnect the passenger airbag wiring connector.



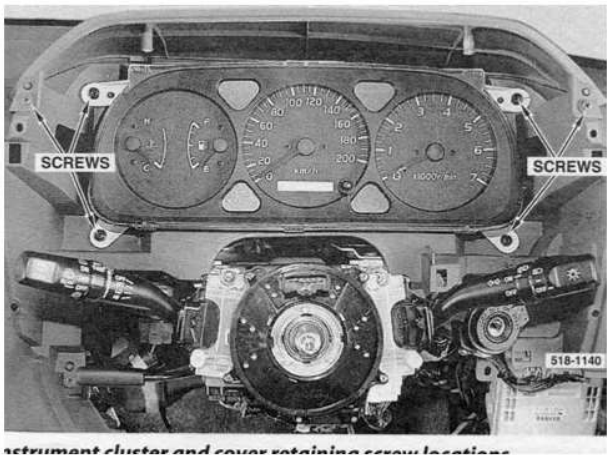
A pillar trim panel components.

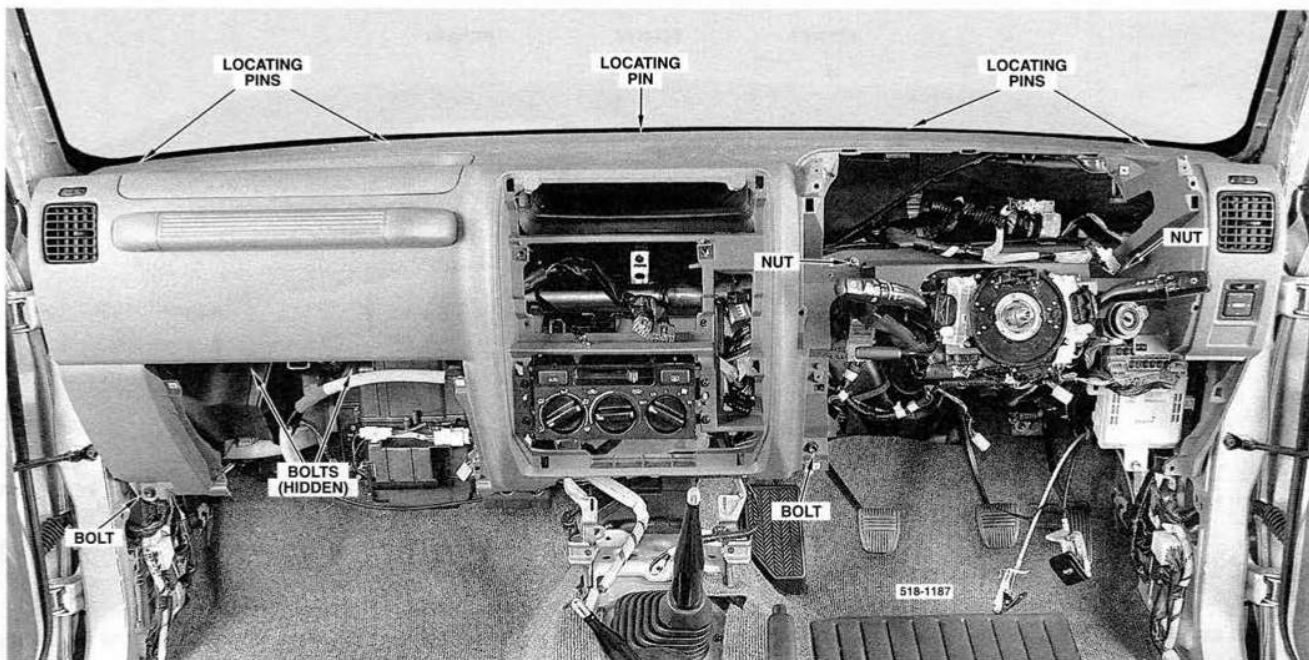


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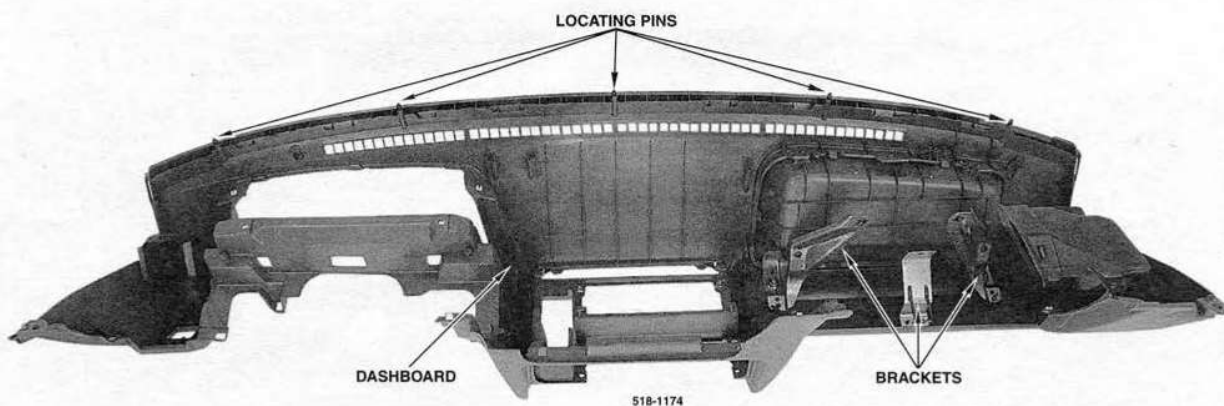
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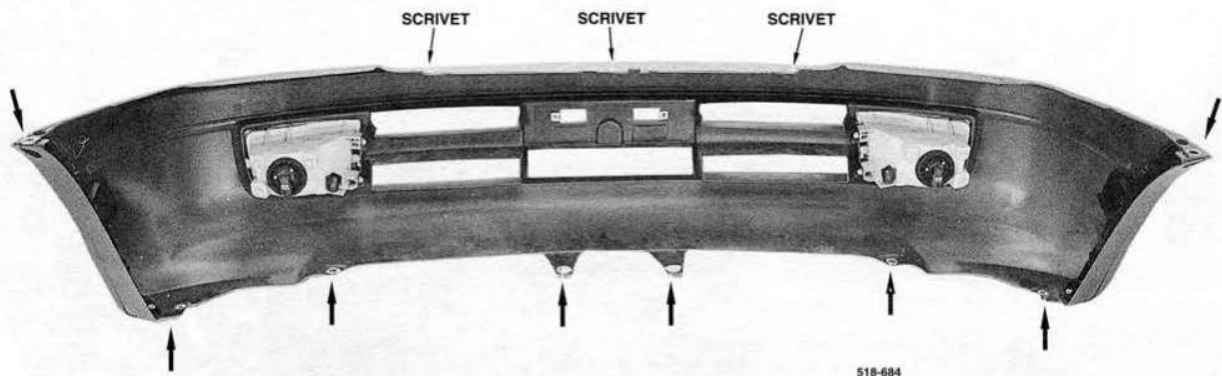
Dashboard partially dismantled and ready for removal.

- 3 Inspect all retaining clips and renew any damaged or broken clips as required.
- 4 Install the dashboard retaining nuts and bolts and tighten securely.
- 5 On models with a passenger side airbag connect the wiring connector.
- 6 Install the instrument cluster ensuring that the wiring connectors are locked.
- 7 Connect the wiring connectors and the radio aerial to the sound system, then install the sound system and tighten the retaining bolts securely.
- 8 Partially install the radio surround panel, install the wiring connectors to the switches, fuel gauge, cigarette lighter and power outlet, then install the surround panel to the dashboard.
- 9 Install the trim covers to both A pillars, ensuring that the tangs on the bottom of the covers engage the dashboard and install the handles. Tighten the retaining bolts securely and insert the covers.
- 10 Install the glove compartment roof panel and then the glove compartment.
- 11 Install the steering column covers and steering wheel as described in Steering (chapter 12).
- 12 Install the weather seals, ensuring that the seals engage the lip on the vehicle body and install the kick panels to both sides of the vehicle.
- 13 Check the operation of all components disturbed during the removal and installation of the dashboard.
- 14 Road test the vehicle and check instrument and ventilation system operation.



Rear of dashboard showing locating pins.

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Front bumper scrivet and retaining bolt location. The arrows indicate bolt locations.

Bumpers

FRONT BUMPER

To Remove and Install

- 1 Remove the grille as follows:
 - a Remove the screw retaining the grille to the bonnet lock assembly.
 - b Release the clips securing the grill to the headlamp assemblies by moving the clips forward.
 - c Lift the grille straight up to clear the clips and then move the grille from the vehicle.
- 2 Remove the scrivenets from the top of the front bumper.
- 3 Where fitted, disconnect the wiring connectors from the rear of the fog lamps.
- 4 While an assistant supports the weight of the bumper, remove the bolts retaining the bumper to the vehicle.
- 5 Manoeuvre the front bumper from the vehicle.

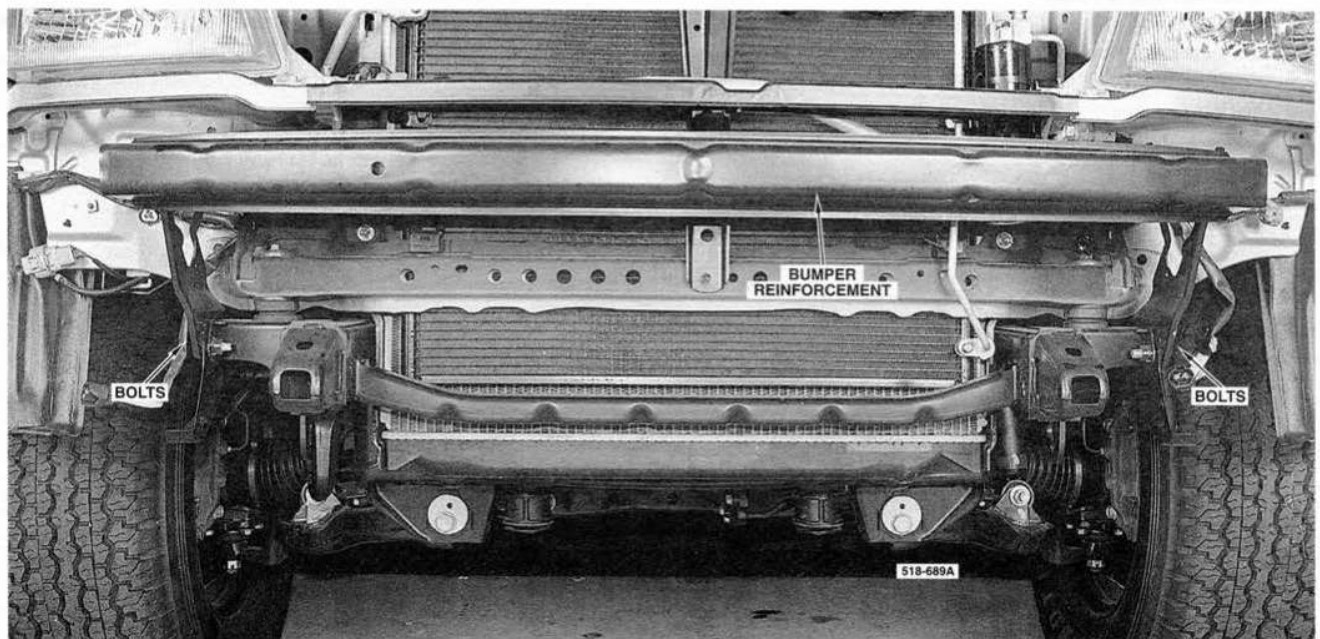
Installation is a reversal of the removal procedure with attention to the following points:

- 1 Install the bumper to the vehicle and tighten the retaining bolts securely.
- 2 Install the scrivenets to the top of the bumper.
- 3 Where fitted, connect the wiring to the rear of the fog lamps.
- 4 Install the grille ensuring that the clips engage the grille. Install the retaining screw.

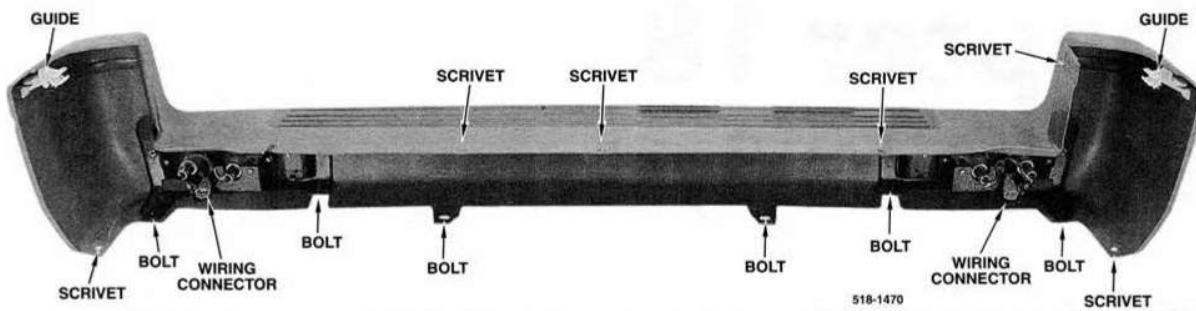
REAR BUMPER

To Remove and Install

- 1 Working beneath the bumper, disconnect the wiring connectors from the rear of the tail lamp assemblies and remove the scrivenets and the bolts.
- 2 While an assistant supports the bumper open the tailgate and remove the scrivenets from the top of the bumper.
- 3 Close the tailgate and with the help of an assistant, withdraw the bumper from the vehicle.



Front bumper removed showing the reinforcement assembly.



Location of the rear bumper retainers.

- 4 Check the guides at the outer ends of the bumper and renew if damaged.

Installation is a reversal of the removal procedure with attention to the following points:

- 1 Install the bumper to the vehicle, ensuring that the plastic guides in the outer ends of the bumper align with the locators on the vehicle.
- 2 Tighten the retaining bolts securely and install the scrivenes.

Windscreen and Rear Glass

The renewal or replacement of the windscreen and the rear glass follows the same basic procedure.

The successful fitting and sealing of the windscreen or rear glass will depend to a large extent on the technical knowledge and experience of the operator and it is not recommended that rear glass or windscreen replacement be attempted by anyone lacking previous experience.

Vehicle Cleaning

In order to maintain the upholstery and interior trim in good condition, it should be regularly vacuumed to remove loose dirt and dust. The vinyl should then be wiped over using a damp cloth. From time to time it may be necessary to treat the vinyl trim with a reputable brand of vinyl restorer, ensuring that the manufacturers instructions are carefully followed.

Fabric trim may be given additional protection from liquid spills and stains by treating it with Scotchguard or equivalent.

If the upholstery or interior trim is soiled, use the following cleaning procedure. Following this if necessary, refer to the information on stubborn stain removal.

- a Sponge the affected area lightly with warm water containing a little detergent and household ammonia.
- b Pat the area using a clean dry cloth. If the soiling is still apparent, repeat the previous operation.
- c Alternatively, an upholstery cleaner can be used, ensuring that the manufacturers instructions are followed.

TO REMOVE STUBBORN STAINS ON CLOTH TRIM AND CARPET



Carpet cleaning solution can be made by combining one teaspoon of mild detergent and one teaspoon of white vinegar with one litre of warm water. This solution is useful for cleaning most carpets and fabrics.

Chewing Gum

- 1 Apply an ice cube to harden the gum.
- 2 Remove as much of the gum as possible using the edge of a spoon.
- 3 Dab with a cloth moistened with methylated spirits.
- 4 Finish by washing the affected area with warm soapy water and drying with a clean dry cloth.

Grease and Other Fatty Stains

- 1 Remove as much of the grease as possible, taking care not to spread it any further.
- 2 Carefully dab with a cloth moistened with cigarette lighter fluid or turpentine, working from the edge of the stain.
- 3 Finish by washing the affected area with warm soapy water and drying with a clean dry cloth.

Chocolate

- 1 Remove as much of the chocolate as possible.
- 2 Sponge the stain with carpet cleaner. If the stain persists, treat it with dry-cleaning fluid.
- 3 For dried stains, sponge with a borax solution. If the stain persists, treat it with a glycerine solution.
- 4 Finish by washing the affected area with warm soapy water and drying with a clean dry cloth.

Ballpoint Pen Inks

- 1 Dab stain lightly with a pad soaked in methylated spirits and white vinegar.
- 2 Sponge with the carpet cleaning solution.
- 3 Finish by washing the affected area with warm soapy water and drying with a clean dry cloth.
- 4 If the stain persists, repeat the cleaning procedure.