

BODY

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GENERAL INFORMATION

The body incorporates a floor pan frame as the basic construction. The body doesn't have a frame but it's assembled by spot welding panels together. This construction results in a lightweight body which will not bend, buckle or vibrate with normally accepted road use, and minor impact.

After a collision it's advisable to check the body alignment. The reinforced box sections of the front lower structure and strut mountings in the fender splash shields ahead of the fire wall are the ones that will most likely be damaged. These areas in front of the fire wall carry the front suspension, support the engine and the front body panels.

The box sections of the body should also be inspected as these sections support the doors and help in providing protection to the driver and passenger in case of a collision. The door pillars, sills and roof rails provide added strength to floor pan and the general body components.

If replacing body panels it is advisable that these panels be perfectly aligned, if they can not be panel beaten or repaired so they align it is advisable that the panels be replaced with another panel either new or second hand in very good repair. As these panels help give strength to the vehicle body.

Before welding on the vehicle disconnect battery leads other wise electronic components could be damaged.

PANEL REPLACEMENT

When repairing collision damage it may be advisable to replace the damaged panels.

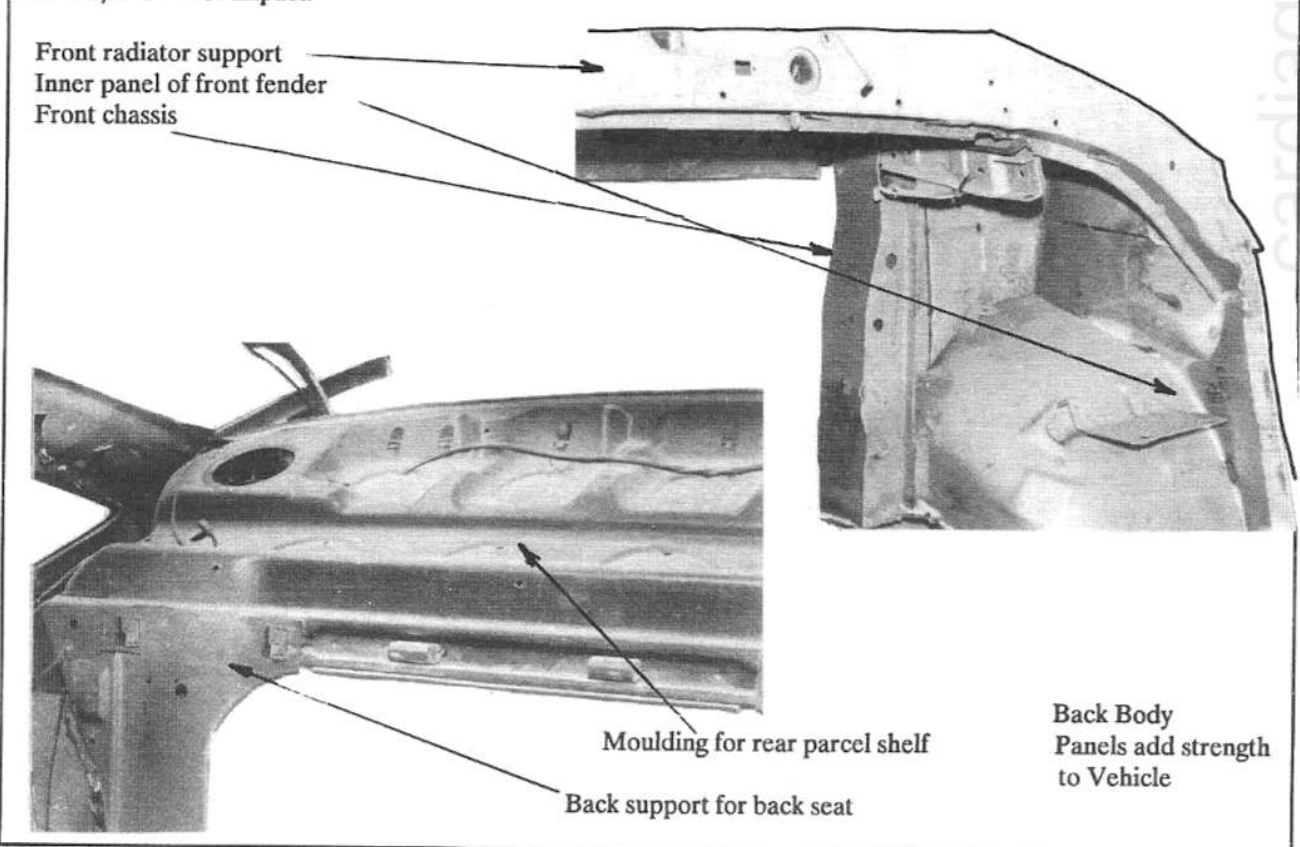
Separation of damaged panels may be accomplished by drilling or by cutting the spot welds with a chisel. Welded seams may be separated with a cutting torch or grinder.

In the case of severe collision damage, the adjoining body sections may be mis-aligned. These adjoining sections should be re-aligned before removing the damaged panels.

Don't try to weld or straighten stabilizing bars, suspension and steering rods, crossmembers, engine mounting brackets and hinges for bonnet, boot and doors. Application of heat will result in severe and permanent damage to the strength of components.

When replacing large panels requiring long welds, care should be taken to prevent distortion due to excessive heat. Spot weld the panel at centre of joint and tack weld toward each end, alternatively tack welding approximately 300 mm apart. Heat resisting putty surrounding the areas to be welded will help prevent heat distortion.

Box sections of the body, results in a lightweight body which will not bend, buckle or vibrate with normally accepted road use, and minor impact.



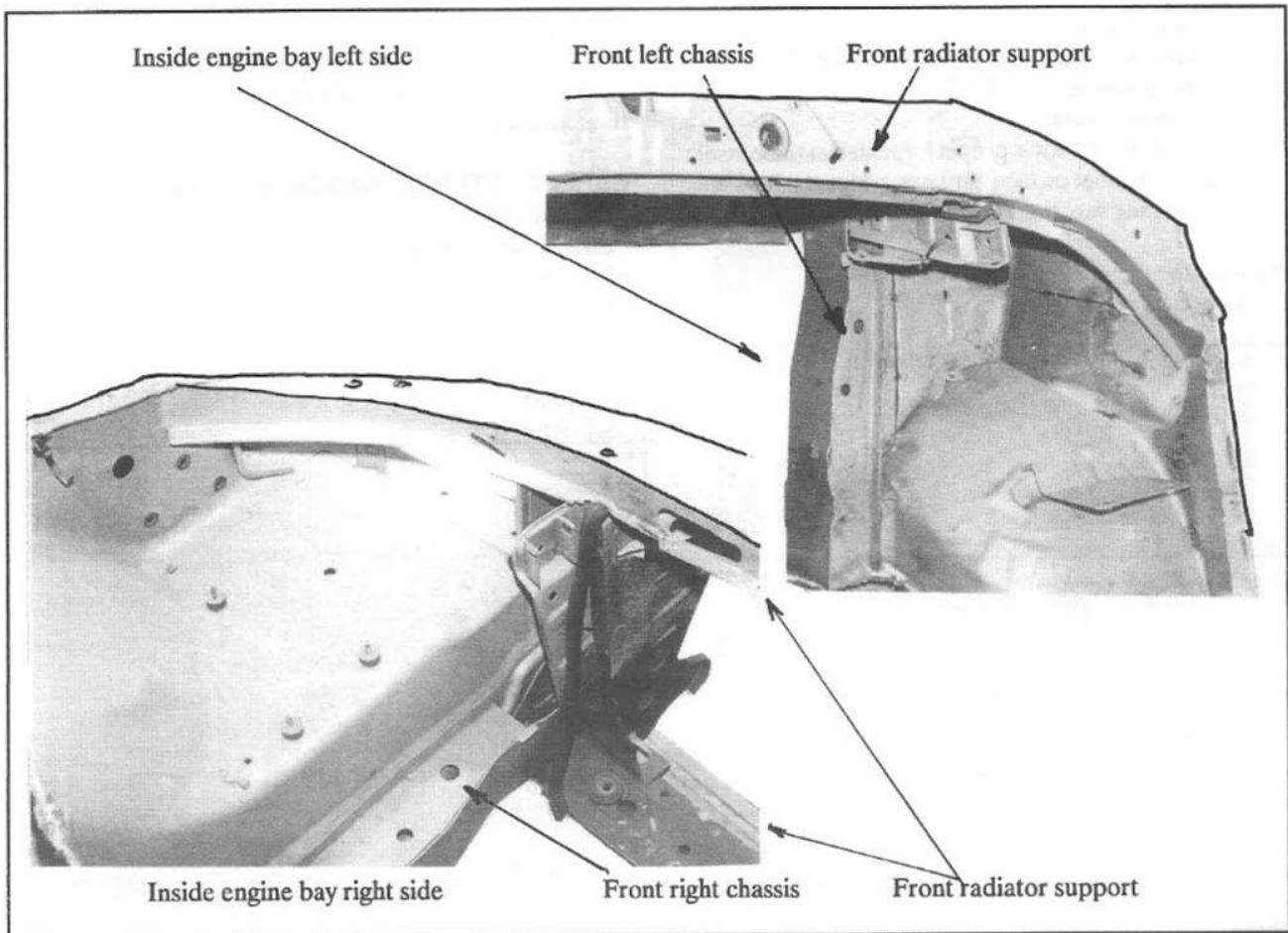
FLOOR PAN / CHASSIS

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FLOOR PAN / CHASSIS ALIGNMENT

Body alignment may be checked accurately by the following method:

Compare the dimensions made on both sides of vehicle. All dimensions must be measured at the welded joints of the body to ensure uniform measurements or from the centre of holes if measuring from a hole in the body or floor pan / chassis.



CENTRE CONSOLE**Remove**

1. Remove the console attaching screws in the console storage compartment (under the carpet) with a phillips screw driver.

2. Automatic Transmissions:

With a screw driver unclip the top selector panel from the under the centre dash panel and console, lift the selector panel, twist around the gear lever "T" and remove.

Manual Transmission:

Unscrew the gear knob from the gear lever.

3. Pull the hand brake up as far as it will go, slide zip down.

4. Prise the console top section and attaching screws at the front of the console with a phillips head screw driver.

5. Disconnect any electrical connections that may be present for accessories and lights.

6. Carefully remove the centre console by lifting up at the rear to help clear the hand brake handle, then slide back and up to free console.

Install

1. Carefully lower and move the centre console forward over the handbrake handle.

2. Connect any electrical connections that are present.

3. Ensure the console is correctly positioned and insert the four attaching screws.

4. Install the carpet sections that were removed.

5. Automatic Transmission:

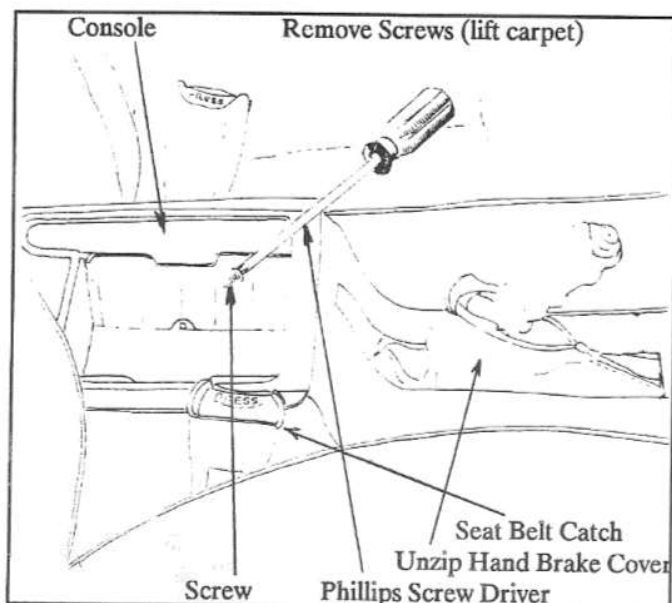
Fit the selector top panel over the gear lever "T" handle and clip into position.

Manual Transmission:

Ensure the rubber boot is properly located in the console moulding, fit the boot on the gear lever and screw the knob into place making sure that the writing is facing the correct way.

Replace the gear shift lever knob.

6. Connect the battery earth cable.

**FLOOR CARPET - INTERNAL****Remove**

1. Remove the transmission console as described above.

2. Remove the front seat assemblies and rear seat cushion assembly.

3. Remove seat belt securing bolts and remove seat belts.

4. Remove the side panel covers and foot rest.

5. Lift carpet taking care not to damage carpet as sealant will need to be worked free.

Install

1. Use a suitable sealant to fix carpet into place, carefully replace carpet.

2. Replace seat belt anchoring bolts to specified torque.

Seat Belt Anchoring Bolts Torque: 35-70Nm.

3. Install seat assemblies as described in seat section.

4. Install centre console as described above.

CARPET - BOOT**Remove**

1. Lift the weather strip to free the carpet on the boot floor.

2. Lift the front and rear of the carpet during removal taking care not to damage the velcro tape on the carpet or body.

Install

1. Installation of the carpet assembly involves lifting the front and rear of the carpet to get the correct location of the carpet edges and firm pressing down on the carpet at the velcro tape locations during installation.

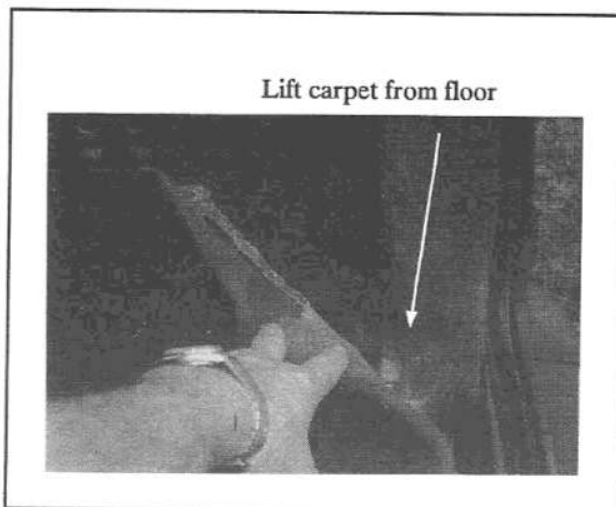
2. Replace the weather strip to fix the carpet on the boot floor and sides.

CARPET - STATION WAGON BACK SECTION**Remove**

Lift the carpet from the vehicle by gently lifting the edges of the carpet towards the centre.

Install

Lay carpet out in the correct position and fit carpet to the floor section. Making sure that the carpet fits neatly up against all edges.



DASH/INSTRUMENT PANEL

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DASH LOWER PANEL - RIGHT HAND SIDE

Remove

Remove the clips and studs securing the trim assembly to the instrument panel lower, from under the dash. Turn clips 90° with a screw driver to release clips. As illustrated.

Install

Fit panel into position and install twist clips, turn 90° with a screw drive to lock into place.

FUSE AND RELAY TRIM PANEL

Remove

Remove the clips and studs securing the trim assembly to the instrument panel lower, from under the dash. Turn clips 90° with a screw driver to release clips.

Install

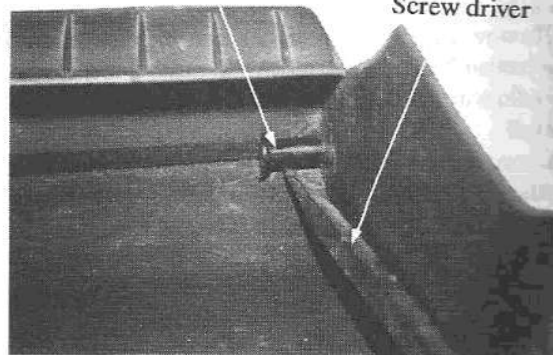
Fit panel into position and install twist clips, turn 90° with a screw drive to lock into place.

GLOVE BOX

Glove box removed from vehicle

Hinge pins

Screw driver



Remove

Open the glove compartment, lift the glove box attaching hinge, remove the hinge pin with screw driver.

Install

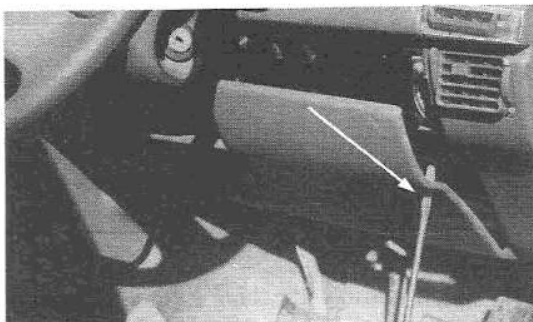
Position the glove compartment door into position and refit the hinge pins. Ensure the glove compartment door fits correctly.

CENTRE CONTROLS, RADIO FACIA & ESTCHEON

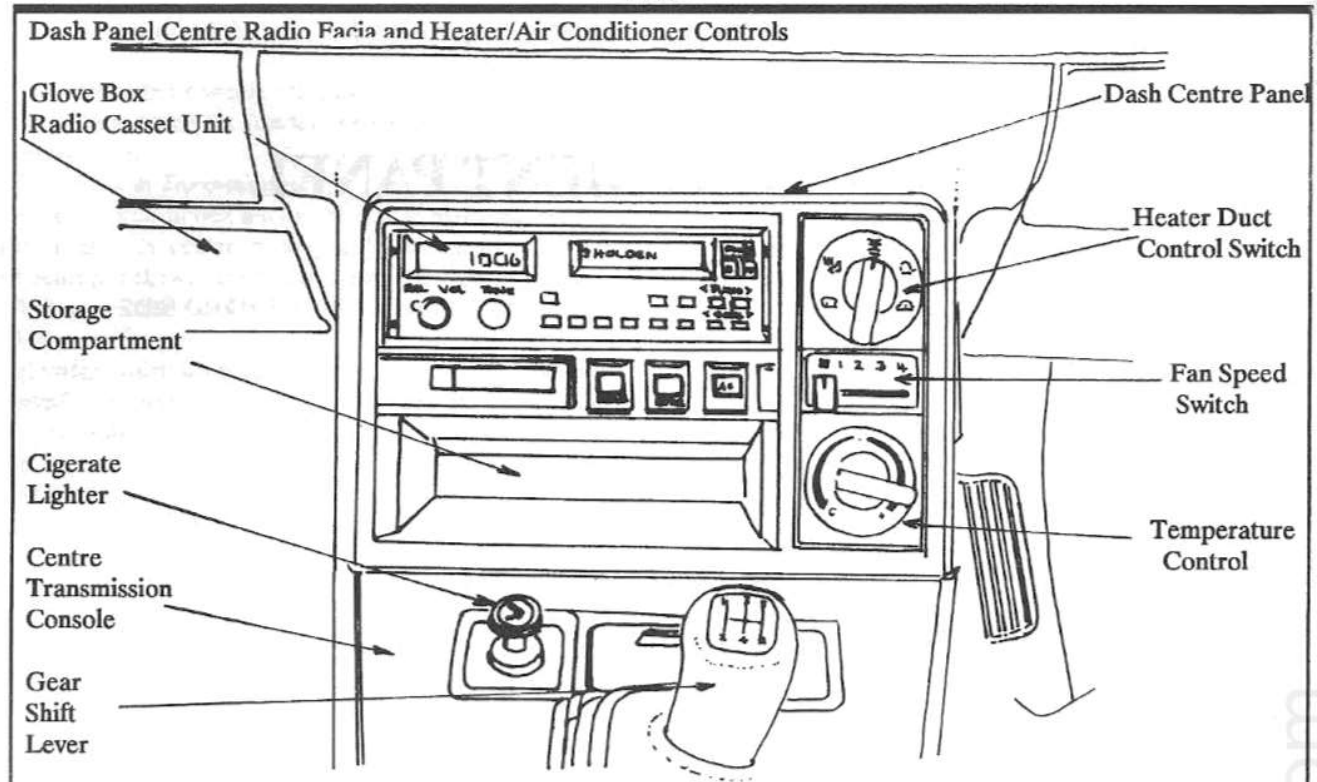
Remove

1. Disconnect the battery.

Instrument (Dash) Lower Panel - Right Hand Side - Below Steering Column



Turn Lock Screws



2. Remove the centre console as described earlier.

3. Remove the radio escutcheon (3 screws), remove the heater / airconditioner controls (1 screw) lift the escutcheon out enough to allow the wiring connectors to be removed from the controls.

Remove the radio escutcheon by unclipping the side clip with a narrow blade screwdriver (slide the screw driver along the side of the escutcheon clip).

4. Remove the radio screws (2) securing the radio to the dash centre facia then remove the radio and disconnect the radio wiring loom connector and antennai from radio.

Install

1. Connect the radio wiring loom connector and antennai to radio. Replace radio install the radio screws (2) securing the radio to the dash centre facia.

2. Replace the radio escutcheon fitting the wiring connectors to the controls. Replace the radio escutcheon by sliding the side clips into place. Replace the heater / airconditioner (1screw) controls, radio escutcheon (3 screws) to the dash assembly.

3. Replace the centre transmission console as described earlier.

4. Re-connect the earth cable to the battery.

HEATER and AIR CONDITIONER CONTROLS

Remove

1. Disconnect the battery.
2. Remove the centre transmission as described earlier.
3. Remove the radio escutcheon (3 screws), remove the heater / airconditioner controls (1 screw) lift the es-

cutcheon out enough to allow the wiring connectors to be removed from the controls.

Remove the radio escutcheon by unclipping the side clip with a narrow blade screwdriver (slide the screw driver along the side of the escutcheon clip).

4. Remove the heater / airconditioner control panel by juggling it around the radio escutcheon.

5. Remove the vacuum hoses, label hoses and identify the vacuum ports which the particular hoses belong too. This is to help during installation of the heater control switch.

Install

1. Connect the heater / airconditioner wiring loom connectors and connect vacuum hoses, use the labels made during removal to identify the correct hoses for the ports.

2. Replace the radio escutcheon fitting the wiring connectors to the controls if removed. Replace the radio escutcheon by sliding the side clips into place. Replace the heater / airconditioner (1 screw) controls, radio escutcheon (3 screw) to the dash assembly.

3. Replace the centre transmission console as described earlier.

4. Re-connect the earth cable to the battery.

DASH PANEL ASSEMBLY

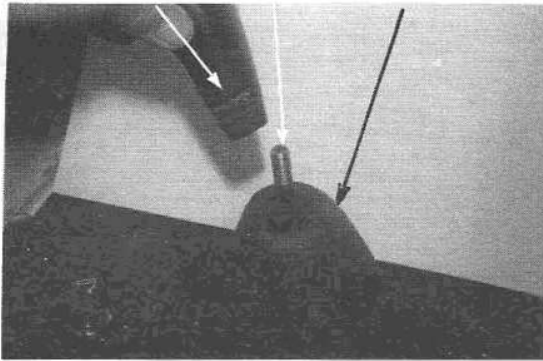
Remove

1. Disconnect the battery.
2. Remove the console attaching screws in the console storage compartment (under the carpet) with a phillips screw driver.

3. Automatic Transmissions:

Unscrew the gear knob from the gear lever.

Gear Knob Gear Stick Rubber Boot



With a screw driver unclip the top selector panel from the under the centre dash panel and console, lift the selector panel, twist around the gear lever "T" and remove.

Manual Transmission:

Unscrew the gear knob from the gear lever.

4. Pull hand brake up as far as it will go, slide zip down.
5. Prise the console top section and attaching screws at the front of the console with a phillips head screw driver.
6. Disconnect any electrical connections that may be present for accessories and lights.
7. Carefully remove the centre brake console by lifting up at the rear to help clear the hand brake handle, then slide back and up to free console.

8. Remove radio escutcheon (3 screws), remove heater / airconditioner controls (1 screw) lift escutcheon out enough to allow wiring connectors to be removed from controls.

Remove the radio escutcheon by unclipping the side clip with a narrow blade screwdriver (slide the screw driver along the side of the escutcheon clip).

9. Remove the radio screws (2) securing the radio to the dash centre facia then remove the radio and disconnect the radio wiring loom connector and antennai from radio.

10. Remove the lower right dash trim, remove the clips and studs securing the trim assembly to the instrument panel lower, from under the dash.

11. Remove the fuse panel.

12. Remove the steering column.

(a) Pull back steering shaft clamp boot and remove steering shaft clamp bolt, upper universal joint and coupling shaft.

(b) Detach column wiring at the multi-pin plugs, unscrew fuse panel and tie up out of way. Unplug stop light connectors from pedal assembly and tie out of way.

(c) Remove steering wheel and remove lower column cover screws and cover.

(d) i. Remove screw just above steering column, from dash panel to steering column mounting bracket.

ii. Remove 3 nuts securing the steering column.

(e) Remove the nuts securing the column support bracket to the pedal support bracket. Pull back on column to:

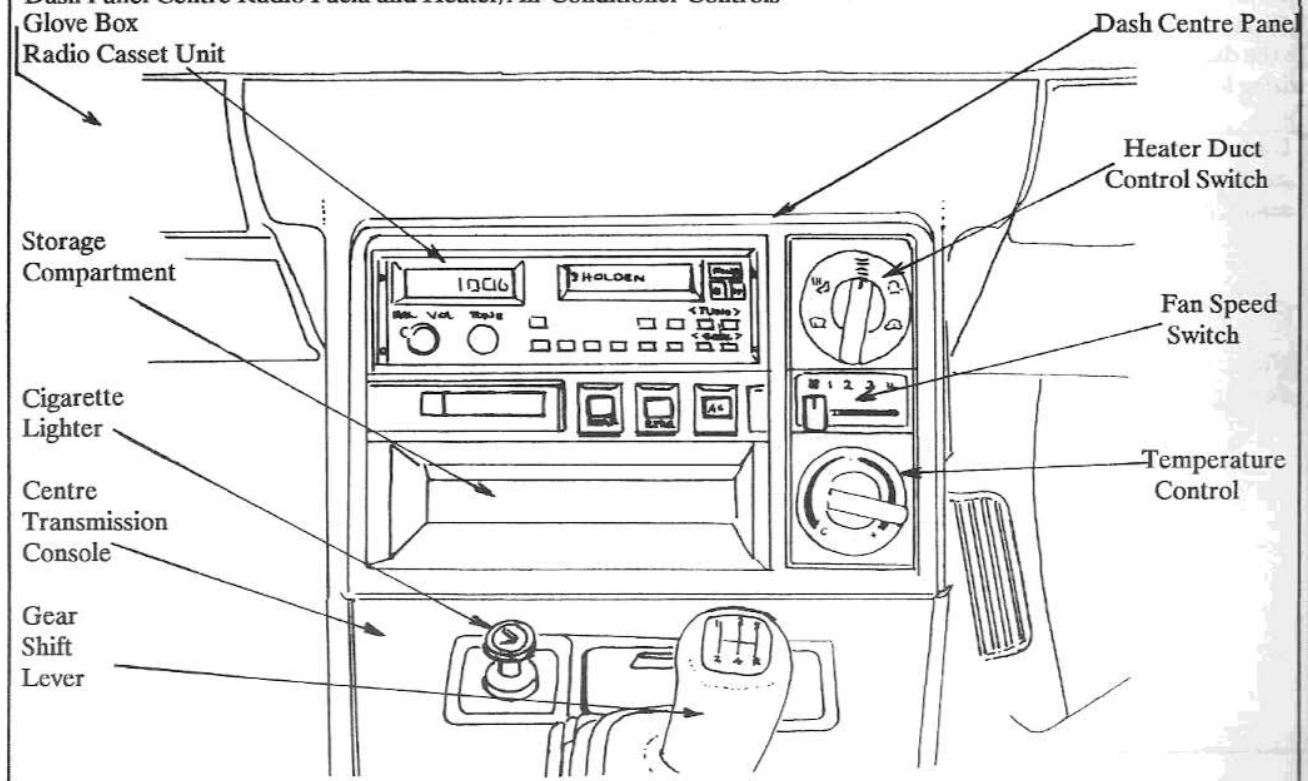
- remove column from pedal assembly.

- remove the top column cover.

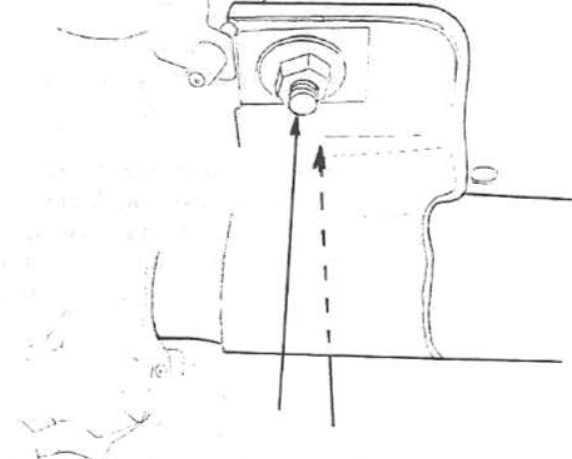
(f) Lower steering column on to seat.

14. Remove the screw attaching the dash panel to the sub assembly to the heater.

Dash Panel Centre Radio Facia and Heater/Air Conditioner Controls



Lower Steering Column to rest on front seat



Remove two bolts to lower steering column

15. Remove the screw attaching the dash panel to the floor pan.

16. (a) Remove the demister moulding 2 piece, held by 4 screws (If vehicle has Electronic Climate Control it will be necessary to unplug the sun sensor that is in the demister panel).

(b) Remove the seal under the demister panels.

(c) Remove 4 plastic plugs into top of dash panel which held 4 demister moulding screws.

(d) Remove the seven screws from the top of the dash panel, into front of the windscreen.

17. (a) Remove air duct moulding from each end of the dash panel, 3 screws (2 at end, 1 lower) lift moulding up and remove.

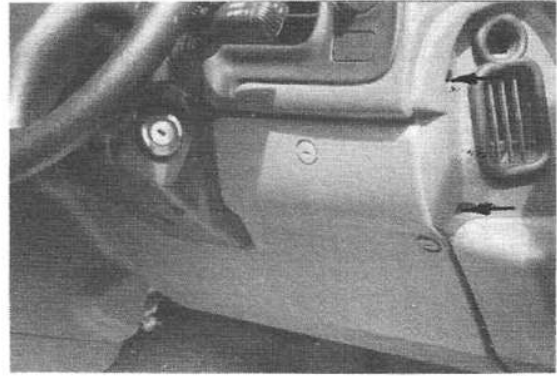
(b) Remove screw in middle of dash end moulding.

(c) Remove the bolt into firewall panel at each end.

18. Remove the 2 screws attaching the instrument facia to the dash panel, pull out facia enough to disconnect the wiring looms, label to help installation of facia.

Dash panel
end moulding

Remove screws



19. Remove the instrument cluster (2) attaching screws. Carefully withdraw the cluster as the cluster has slide in electrical connectors at the rear of the cluster, some clusters have one electrical push-in plug at rear of cluster.

20. At each end of the dash panel disconnect the heater ducts from the dash panel.

21. Pull the dash panel away from the body section to allow the disconnection of the wiring loom connections.

22. Lift the dash panel out of the vehicle.

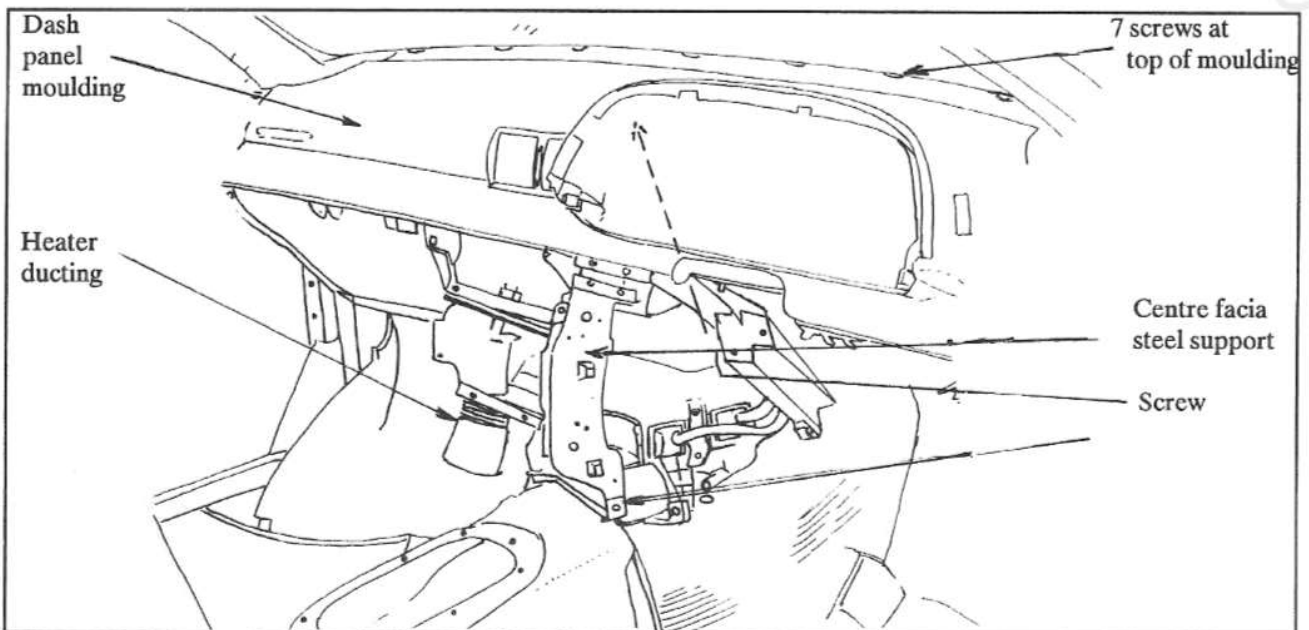
Install

1. Position the dash panel into the vehicle.

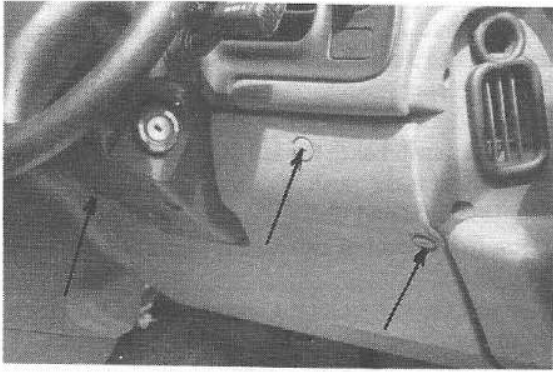
2. Lift the dash panel forward to the body section to allow the connection of the wiring loom connections.

3. At each end of the dash panel connect the heater ducts to the dash panel.

4. Carefully slide the instrument cluster into position as the cluster has slide in electrical connectors at the rear, some clusters have one electrical push-in plug at rear of cluster. Install the instrument cluster (2) attaching screws.



Lower right dash panel is held by 3 turn and lock screws.



5. Replace the instrument cluster facia, connecting the wiring looms, take note of removal labels. Install the 2 screws attaching the instrument facia to the dash panel.

6. (a) Install the seven screws to the top of the dash panel, into front of the windscreen.

(b) Replace 4 plastic plugs into top of dash panel which hold the 4 demister moulding screws.

(c) Replace the seal which is under the demister panels.

(d) Install the demister moulding 2 piece, and 4 screws (If vehicle has Electronic Climate Control it will be necessary to plug in the sun sensor that is in the demister panel).

7. (a) Install the bolt into firewall panel at each end.

(b) Replace screw in middle of dash end moulding.

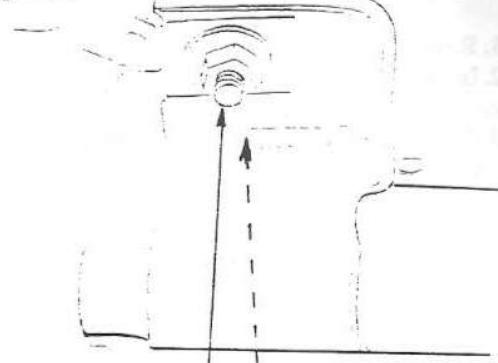
(c) Replace air duct moulding to each end of the dash panel, 3 screws (2 at end, 1 lower) position moulding and push down to fit lower lug in.

*** Earth straps must be correctly located under the left hand side instrument panel mounting bolt.**

8. Install the screw attaching dash panel to the floor pan.

9. Install the screw attaching the dash panel to the sub assembly to the heater.

Steering Column



Two bolts to lower steering column

10. Install steering column assembly to the dash panel:

- refit column to pedal assembly.

- replace the top column cover.

(a) Replace the nuts securing the column support bracket to the pedal support bracket, tighten to specification.

Steering Column to Pedal Assembly Nut specified torque: 12-16Nm

(b) i. Replace screw just above steering column, dash panel to steering column mounting bracket.

ii. Replace 3 nuts securing the steering column tighten to specification.

Steering Column Securing Nuts spec torque: 12-16Nm

(c) Replace steering wheel and lower column cover and screws. Tighten steering wheel nut to specification.

Steering Wheel Nut specified torque: 20-22Nm

(d) - Plug stop light connectors to pedal assembly.

- Untie fuse panel and screw into position.

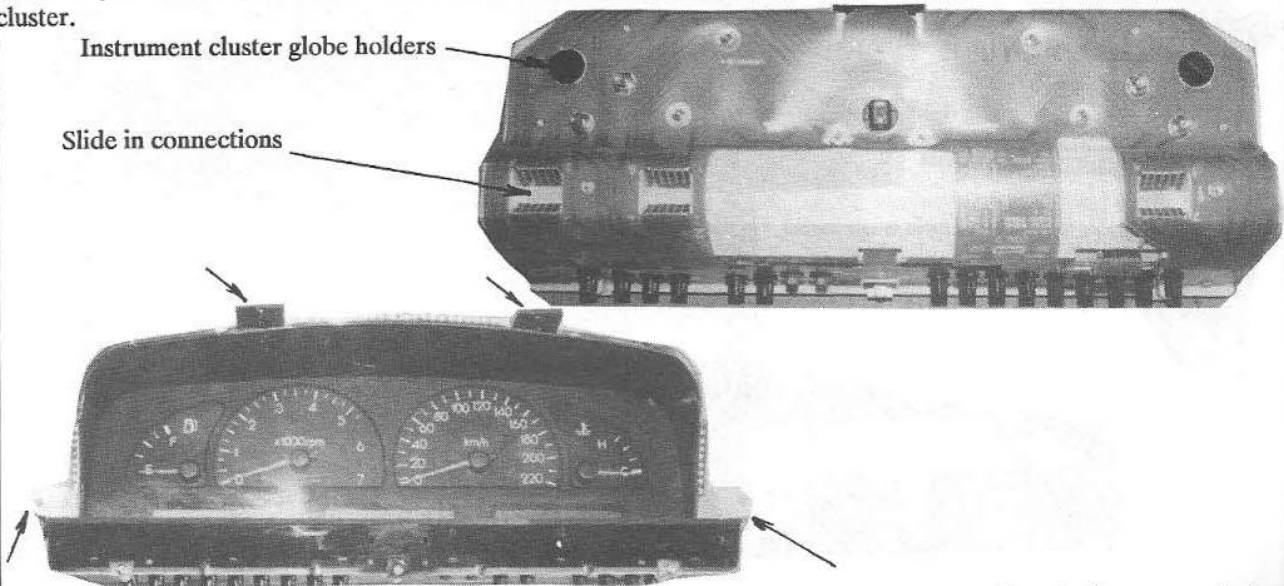
- Reconnect column wiring at the multi-pin plugs.

(e) Pull back steering shaft clamp boot and replace steering shaft clamp bolt, upper universal joint to coupling shaft if removed.

Carefully slide the instrument cluster into position as the cluster has slide in electrical connectors at the rear of the cluster.

Instrument cluster globe holders

Slide in connections



Replace the instrument cluster facia, connecting the wiring looms. Install the 4 screws attaching the instrument facia to the dash panel.

Steering Shaft Upper Coupling Bolt specified torque:
23-30Nm

11. Replace the fuse panel and any relays removed.
12. Install the lower right dash trim, replace the clips and studs securing the trim assembly to the instrument panel.
13. Connect the radio wiring loom connector and antenna to radio. Replace radio install the radio screws (2) securing the radio to the dash centre fascia.
14. Replace the radio escutcheon fitting the wiring connectors to the controls. Replace the radio escutcheon by sliding the side clips into place. Replace the heater / airconditioner (1 screw) controls, radio escutcheon (3 screws) to the dash assembly.
15. Carefully lower and move the centre console forward over the handbrake handle.
16. Connect any electrical connections that are present.
17. Ensure the console is correctly positioned and insert the four attaching screws.
18. Install the carpet sections that were removed.
19. *Automatic Transmission:*
Fit the selector top panel over the gear lever "T" handle and clip into position.
- Manual Transmission:*
Ensure the plastic boot is properly located in console moulding, fit boot over gear lever and screw the knob into place making sure that the writing is correctly positioned.
20. Connect the battery earth cable.

Instrument Facia Switch Assemblies

Remove

1. Remove the instrument facia from dash panel by removing the 2 screws in front of and at top of instruments.
2. Pull out facia enough to disconnect the wiring looms, label looms and connectors to help installation of facia.

3. Remove light and dimmer switch by pulling off knob, dimmer adjuster, unscrew front bezel of switch.

4. Switches to left of instruments are held by two lugs either side, use a small screw driver or blade to free lugs, then remove each switch.

Install

1. Insert the switches to the left of instrument cluster into the instrument facia, push in to lock into position.
2. Replace light and dimmer switch by inserting switch, screw on front bezel of switch. Fit dimmer adjuster then push on knob.
3. Connect the wiring looms taking note of the labels on the connectors from when removing the connectors.
4. Install the 2 screws attaching the instrument facia to the dash panel.

Instrument Cluster

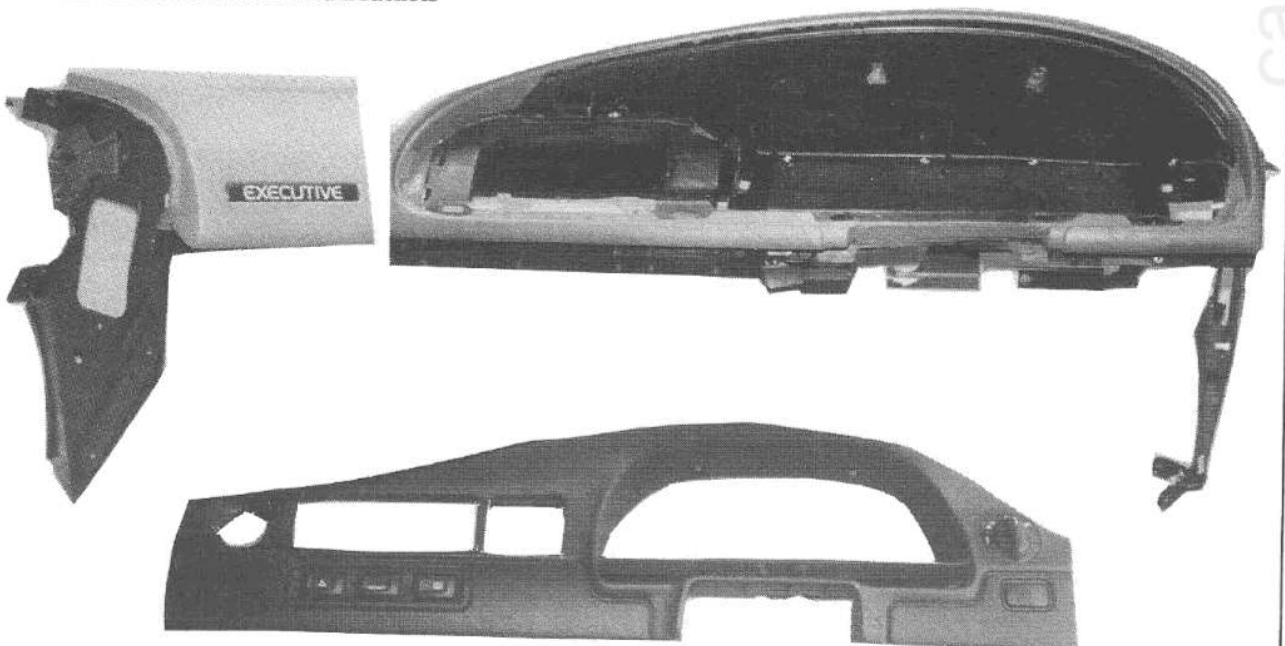
Remove

1. Remove the instrument facia from the dash panel by removing the 2 screws,
2. Pull out facia enough to disconnect the wiring looms, label to help installation of facia.
3. Remove the instrument cluster (2) attaching screws. Carefully withdraw the cluster as the cluster has slide in electrical connectors at the rear, some clusters have one electrical push-in plug at rear of cluster.

Install

1. Carefully slide the cluster into position as the cluster has slide in electrical connectors at the rear, some clusters have one electrical push-in plug at rear of cluster.
2. Install the instrument cluster (2) attaching screws.
3. Replace the instrument cluster facia, connecting the wiring looms. Install the 2 screws attaching the instrument facia to the dash panel.

Executive Dash Pad with End Brackets



Statesman instrument facia

FRONT & REAR DOOR ASSEMBLIES

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Description

Doors consist of a pressed inner door panel and an outer panel which is spot welded and folded on to the inner panel. The inner panel incorporates a strengthened section to protect passengers from a possible collision.

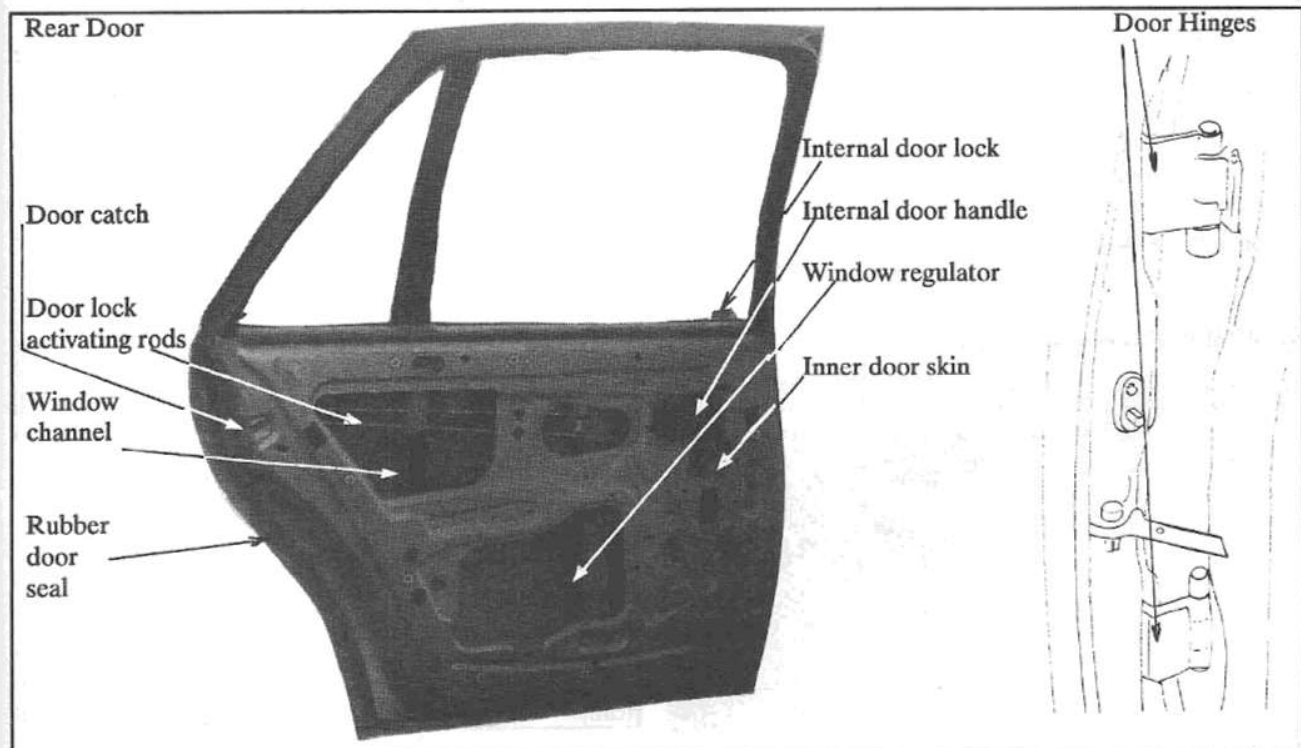
A mechanical cross over lever system of window regulators attached to the glass lifter channels and door inner panels operate the front and rear door sliding windows.

Optional equipment of electric motors for operating the front and rear windows are standard equipment on Statesman and Calais.

Door handles operate by lifting an external lever that is recessed into the door panel for safety reasons. The handles operate the fork type door locks in conjunction with door lock striker bolts.

Front doors have an external key lock, and a push pull button lock internally for the base models such as Executive and Berlina. Calais and Statesman have electronically operated door locks.

Drain holes are located on the underside of the all doors, which drain water away from the door to stop rust. These holes should be checked and cleared periodically.



Door weatherstrips are attached to the doors by push fit fasteners. The top section of the weatherstrip is locked into place by the channel section of the upper door.

MAINTENANCE

FRONT & REAR DOORS

Remove

1. If required, remove the the door and window handles, remove the door trim and disconnect the the wiring loom connectors that may be present for such items as radio speakers, electric mirrors, electric windows and electric door locks.

2. Support the door with an assistant or a car jack with soft padding support the base of the door.

3. Remove the door hinge pin protection caps.

4. Use a narrow punch and hammer, drive the hinge pin out.

5. If the door is damaged remove the hinge attaching bolts.

Install

1. If the hinge is removed, install the hinge. Install the door onto the hinges and tighten the attaching bolts only firmly.

2. Support the door with an assistant or use wood blocks or car jacks with soft padding support the base of the door.

3. Use a hammer, drive the hinge pin into position. Apply dry lube grease to the hinge pin.

4. Replace the door hinge pin protection caps.

5. Align the door to the body and tighten the hinge attaching bolts to specification.

Door Hinge Bolt specified torque: 15-20Nm

6. If required, disconnect the the wiring loom connectors that may be present for such items as radio speakers, electric mirrors, electric windows and electric door locks, replace the door trim and replace the the door and window handles

DOOR ALIGNMENT

The door hinges provide enough adjustment to correct a lot of misalignment conditions. Loosen the door hinge attaching bolts slightly and arrange the door so that it is centred in the door opening whilst closed. Then, tighten the hinge joining the bolts to specification.

Door Hinge Bolt specified torque: 15-20Nm

The door to the body alignment is set accordingly and maintained at the lock striker adjustment as described later in this section.

To correct door sag the lock striker can be adjusted.

WINDOW REGULATOR HANDLE

Remove

1. Use window regulator handle removing tool or make one out of a flat piece of heavy sheet metal similar to the tool shown below.

2. Align the tool with the handle as shown and push in firmly so as to remove the spring clip.

3. Remove the handle, taking care not to loose the spring clip, backing material or spring.

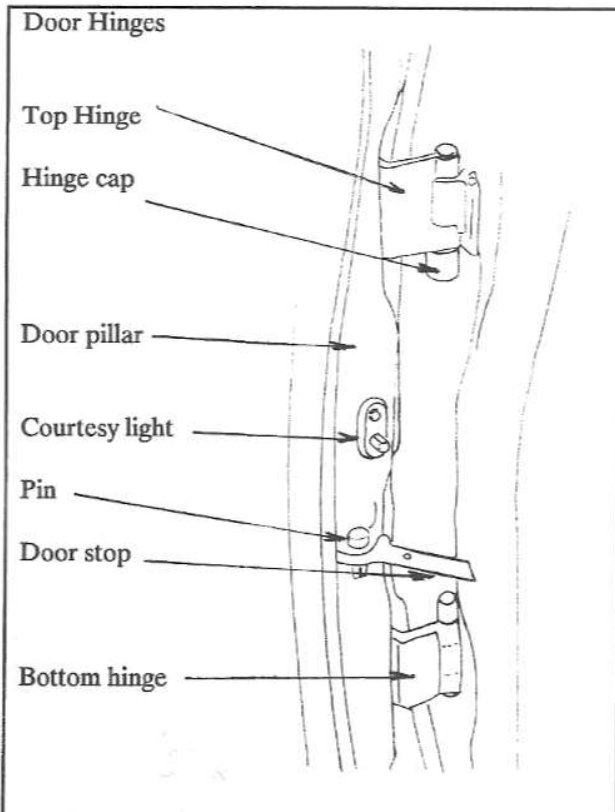
Install

1. Position the spring and backing plate over the regulator spline shaft.

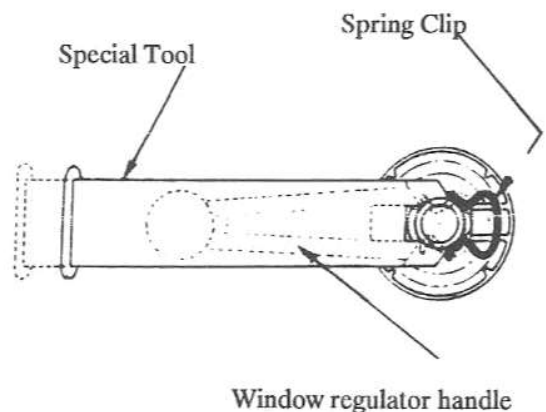
2. Install the spring clip on the handle.

3. With the window wound fully up:

Front Doors: Position handle so it is pointing down towards the bottom front corner of the door.



Window regulator handle removing tool, slides behind window regulator handle

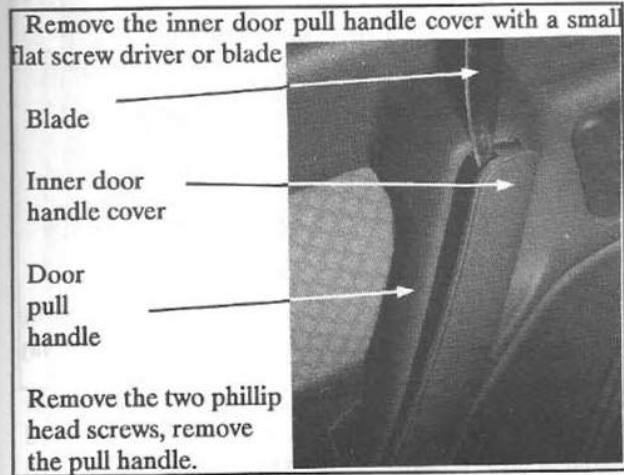


Align the tool with the handle as shown and push in firmly

Rear Doors: Position the handle horizontally, so it is pointing towards the front of the vehicle.

4. Firmly push the window regulator handle on to the spline so the spring clip locks the handle into position.

DOOR INNER PULL HANDLE



Remove

1. Remove the cover with a small flat screw driver or pocket knife.

2. Disconnect the electrical loom connections if electronic switches are present.

3. Remove the phillip screws, remove the pull handle

Install

1. Position pull handle against the door trim and install the phillip head screws.

2. Reconnect the electrical loom connections if electronic switches are present.

3. Replace the push fit cover.

INNER TRIM PANEL

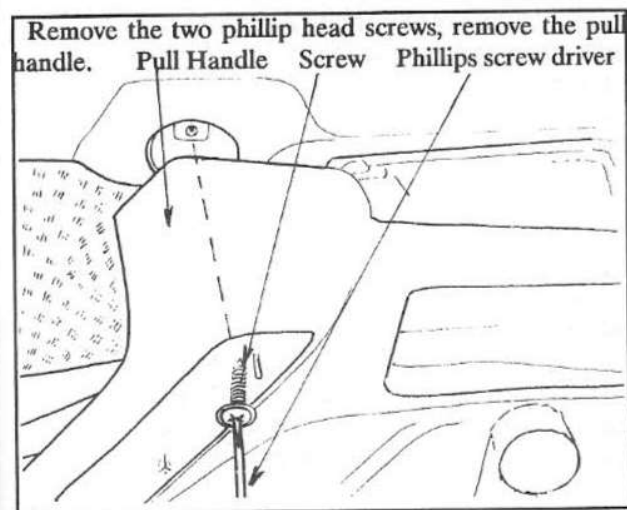
Remove

1. Remove window handle, as previously described.

2. Remove the inner pull handle as previously described.

3. Remove the three screws from the base of the trim.

4. Use the thin narrow blade with a hook or screw driver with hooked blade, slide it in along the side of the red

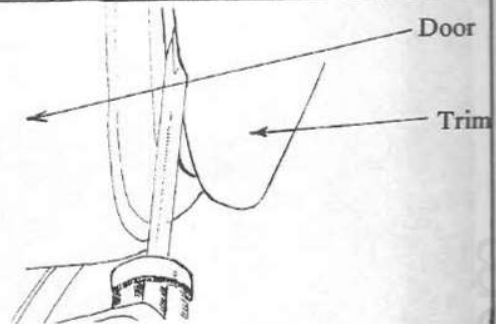
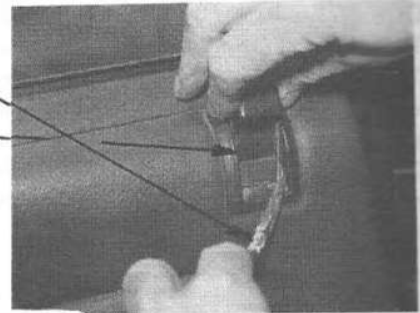


Slide hooked tool along the side of red section of the locking knob, catch the red section and pull it out and away from the locking knob

Remove screw behind lock rod.

Hooked tool

Lock knob



Pry the door trim away from the door with a screw driver or strong flat tool.

section of the locking knob, catch the red section and pull it out and away from the locking knob. The red section fixes the locking knob to the door lock rod. Lift the locking knob off the locking rod. Remove screw behind lock rod.

5. Remove the mirror cover on front doors. Remove cover plug, screw behind plug, pull cover off and back to free the cover from the centre support.

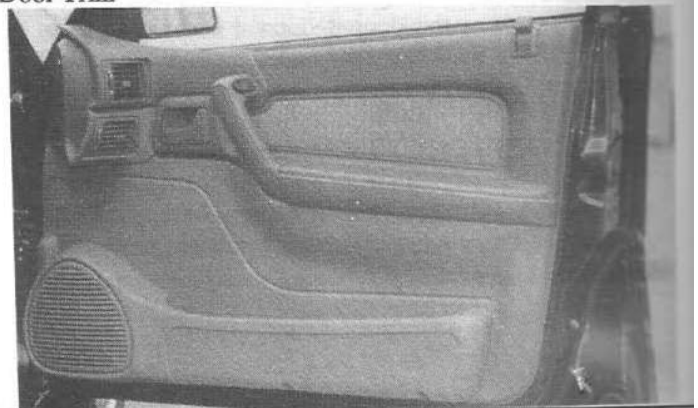
6. Pry the door trim away from the door with a screw driver or strong flat tool.

Install

1. Carefully position the door trim on the door aligning retainers with the retainer holes in the door steel panel.

2. If any of the inner door trim retainers come away from the trim, glue the retainers back to the door trim.

Door Trim



3. Once the door trim is in position fit the attachments back, such as window regulator handle, door handle and screw on mouldings, plus the mirror cover and screw.
4. Replace the three screws from the base of the trim.

LOCK STRICKER**Remove**

1. Mark the striker position on the body panel with a pencil or felt pen, this will help when installing the striker to its correct position.
2. Remove the attaching screws and remove the striker assembly taking care not to loose any shims that may be under the striker.

Mark the striker position on the body panel with a pencil or felt pen



Remove the attaching screws

Install

1. Place the striker and shims against the body panel aligning the striker with the pen marks from the removal.
2. Install the attaching screws and tighten to specification.

Stricker Attaching Screw specified torque: 10-15Nm

3. Check adjustment of the stricker.

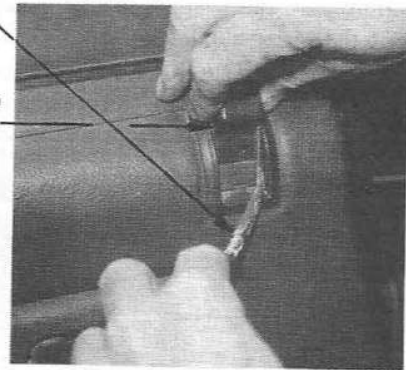
Adjust

To correct the door sag the lock striker can be adjusted. The striker can be adjusted either horizontally or vertically to align the striker with the lock.

To get the clearance between the lock striker and lock the lock striker should be shimmed. Clean the lock jaws and the striker area and apply a thin layer of grease to the lock striker, to check this clearance. A measurable pattern will result as the door is opened and closed. To provide a flush fit at the door and the pillar or quarter panel move the striker assembly laterally.

FRONT DOOR LOCK ASSEMBLY & LOCK BARREL**Remove**

1. Remove the inner pull handle as previously described.
2. Remove the window regulator handle as previously described.

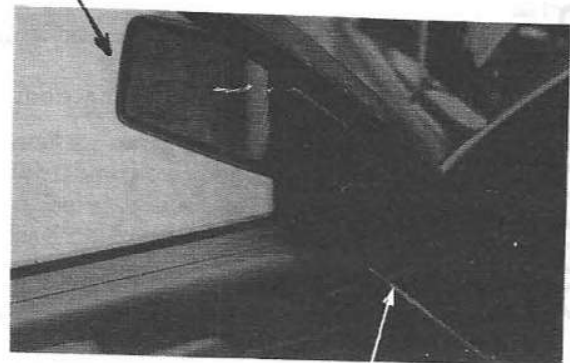
Hooked Tool**Lock knob**

Slide hooked tool along the side of the red section of the locking knob, catch the red section and pull it out and away

3. Use the thin narrow blade with a hook or screw driver with hooked blade, slide it in along the side of the red section of the locking knob, catch the red section and pull

Remove the mirror cover on front door

Inside the door remove the cover with a phillips head screw driver.

Mirror

Phillips Head Screw Driver

it out and away from the locking knob. The red section fixes the locking knob to the door lock rod. Lift the locking knob off the locking rod. Remove screw behind lock rod.

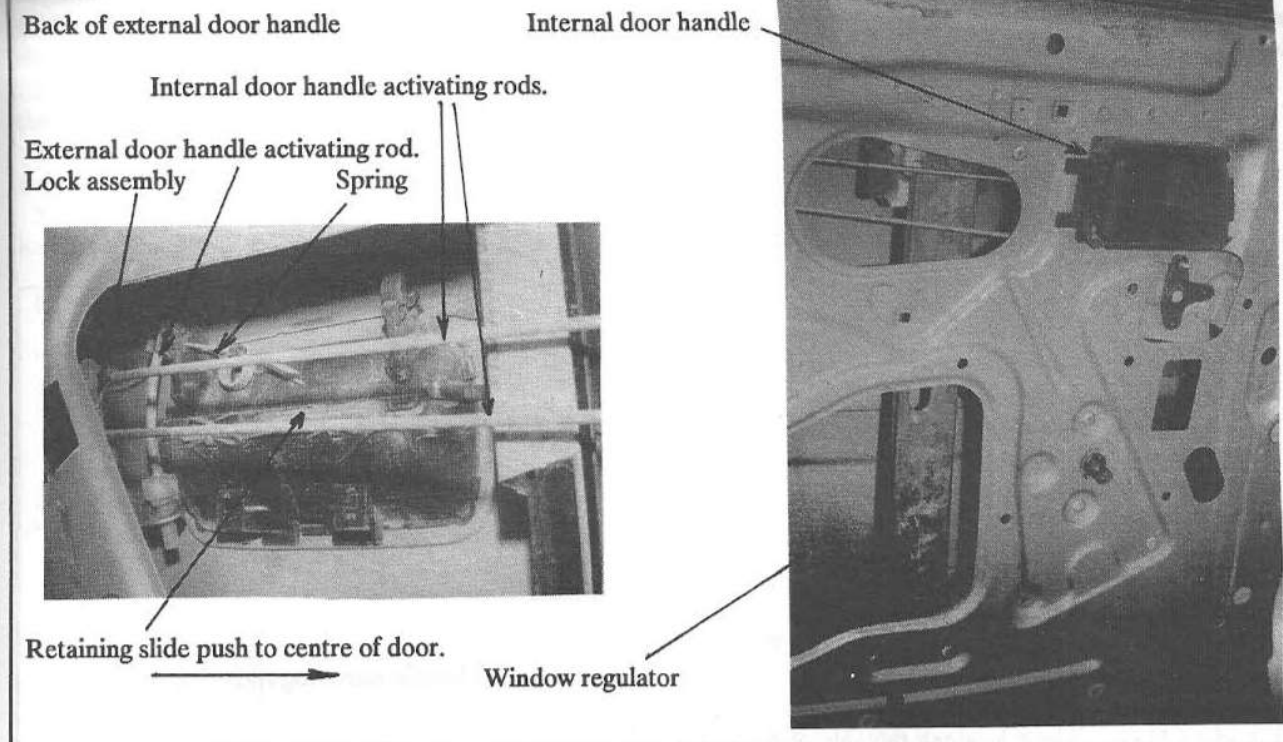
4. Remove the mirror cover on front doors. Remove cover plug, screw behind plug, pull cover off and back to free the cover from the centre support.

5. Prise the door trim away from the door with a screw driver or strong flat tool.

6. Remove the water/dust protection cover carefully so it can be reglued back into position.

7. Remove the screw from the lock shield and prise the shield up.

8. Unclip the retainer clips on the outer door handle and lock cylinder control rod, rod from internal locking button and the internal door handle rod. Disconnect these rods and label if you feel it is necessary to help in installation.



9. Remove screws from the lock assembly and remove the lock assembly.

Install

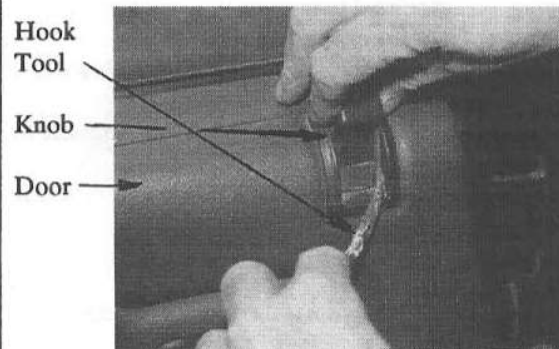
1. Fit outer door handle and lock cylinder control rod to the lock assembly.
2. Install the lock assembly to the door, tighten the attaching screws.
3. Fit and clip the retainer clips on the rod from internal locking button and the internal door handle rod.
4. Replace the lock shield and screw.
5. Replace the water/dust protection cover carefully, reglue back into position if necessary.
6. Carefully position the door trim on to the door aligning the retainers with the retainer holes in the door panel.
7. If any of the door inner trim panel retainers become dislodged, a general purpose hot melt adhesive, can be used to glue these retainers back to the door trim.
8. Once the door trim is in position fit the attachments back, such as window regulator handle, door handle and screw on mouldings, plus the mirror cover and screw.

REAR DOOR LOCK ASSEMBLY

Remove

1. Remove the inner pull handle as previously described.
2. Remove the window regulator handle as previously described.
3. Use the thin narrow blade with a hook or screw driver with hooked blade, slide it in along the side of the red section of the locking knob, catch the red section and pull it out and away from the locking knob. The red section fixes the locking knob to the door lock rod. Lift the locking knob off the locking rod. Remove screw behind lock rod.

Slide hooked tool along the side of the red section of the locking knob, catch the red section and pull it out and away from the locking knob.



4. Remove the mirror cover on front doors. Remove cover plug, screw behind plug, pull cover off and back to free the cover from the centre support.

5. Prise the door trim away from the door with a screw driver or strong flat tool

6. Remove the water/dust protection cover carefully so it can be reglued back into position.

7. Unclip the retainer clips on the outer door handle and lock cylinder control rod, rod from internal locking button and the internal door handle rod. Disconnect these rods and label if you feel it is necessary to help in installation.

8. Remove screws from the lock assembly and remove the lock and barrel assembly.

Install

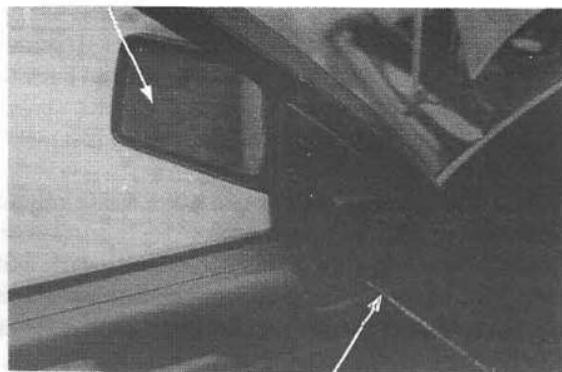
1. Fit outer door handle control rod to the lock assembly.
2. Install the lock assembly to the door, tighten the attaching screws.
3. Fit and clip the retainer clips on the rod from internal locking button and the internal door handle rod.
6. Replace the water/dust protection cover carefully, reglued back into position if necessary.
7. Carefully position the door trim on to the door aligning the retainers with the retainer holes in the door steel panel
8. If any of the door inner trim panel retainers become dislodged, a general purpose hot melt adhesive, can be used to glue these retainers back to the door trim.
9. Once the door trim is in position fit the attachments back, such as window regulator handle, door handle and screw on mouldings.

FRONT EXTERIOR HANDLE & LOCK

1. Remove the inner pull handle as previously described.
2. Remove the window regulator handle as previously described.
3. Use the thin narrow blade with a hook or screw driver with hooked blade, slide it in along the side of the red section of the locking knob, catch the red section and pull it out and away from the locking knob. The red section fixes the locking knob to the door lock rod. Lift the locking knob off the locking rod. Remove screw behind lock rod.
4. Remove the mirror cover on front doors. Remove cover plug, screw behind plug, pull cover off and back to free the cover from the centre support.
5. Prise the door trim away from the door with a screw driver or strong flat tool.
6. Remove the water/dust protection cover carefully so it can be reglued back into position.
7. Remove the screw from the lock shield and prise the shield up.

Remove the mirror cover on front door
Inside the door remove the cover with a phillips head screw driver.

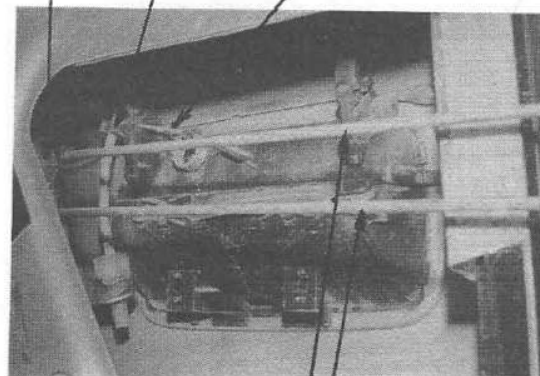
Mirror



Phillips Head Screw Driver

Unclip the retainer clips on the outer door handle and lock cylinder control rod, rod from internal locking button and the internal door handle rod

External door handle activating rod.
Lock assembly Spring



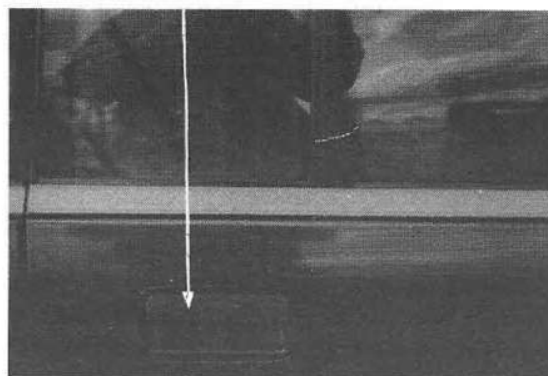
Internal door handle activating rods

8. Unclip the retainer clips on the outer door handle and lock cylinder control rod, rod from internal locking button and the internal door handle rod. Disconnect these rods and label if you feel it is necessary to help in installation.
9. Remove screws from the lock assembly and remove the lock assembly.
10. Inside the door at the back of the exterior door handle, pull the slide attaching clip to the centre of the door to free the external door handle.
11. Remove the external section, withdraw the internal components from within the door.

Install

1. Position the external section of the door handle to the door panel, insert the internal components within the door

External Door Handle



Attaching clip

Inside the door at the back of the exterior door handle, pull the slide attaching clip to the centre of the door to free the external door handle

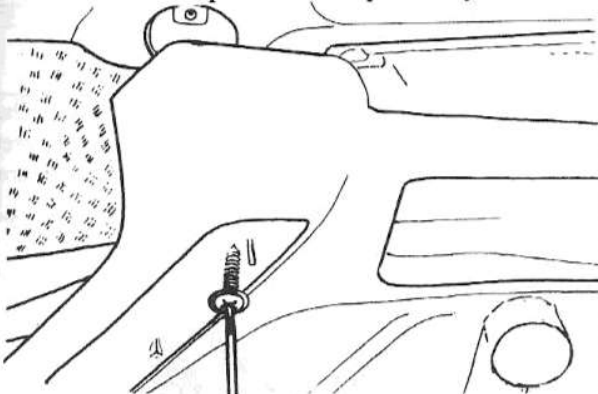
2. Inside the door at the back of the exterior door handle, push the slide attaching clip into position, which will fix the two sections of the door handle together.

3. Fit outer door handle and lock cylinder control rod to the lock assembly.

4. Install the lock assembly to the door, tighten the attaching screws.

5. Fit and clip the retainer clips on the rod from internal locking button and the internal door handle rod.

Remove the inner pull handle as previously described.



Pull the slide attaching clip to the centre of the door.

6. Replace the lock shield and screw.

7. Replace the water/dust protection cover, carefully, reglue back into position if necessary.

8. Carefully position the door trim on to the door aligning the retainers with the retainer holes in the door steel panel

REAR DOOR EXTERIOR HANDLE

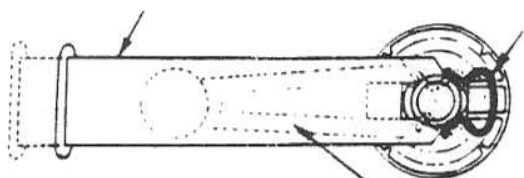
1. Remove the inner pull handle as previously described.
2. Remove the window regulator handle as previously described.

3. Use the thin narrow blade with a hook or screw driver with hooked blade, slide it in along the side of the red section of the locking knob, catch the red section and pull it out and away from the locking knob. The red section fixes the locking knob to the door lock rod. Lift the locking knob off the locking rod. Remove screw behind lock rod.

Remove the window regulator handle

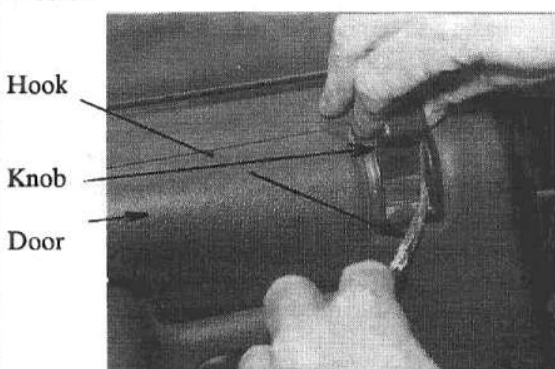
Removal tool

Spring Clip



Window handle

Catch the hook under the knob and gradually pull the knob off



5. Remove the water/dust protection cover carefully so it can be reglued back into position.

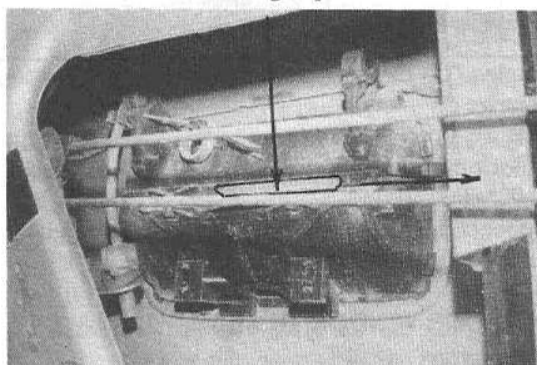
6. Remove the screw from the lock shield and prise the shield up.

7. Unclip the retainer clips on the outer door handle and lock cylinder control rod, rod from internal locking button and the internal door handle rod. Disconnect these rods and label if you feel it is necessary to help in installation.

8. Remove screws from the lock assembly and remove the lock assembly.

9. Inside the door at the back of the exterior door handle, pull the slide attaching clip to the centre of the door to free the external door handle.

Remove the external door handle section
Attaching clip



Slide attaching clip to the centre of the door to free the external door handle.

10. Remove the external section, withdraw the internal components from within the door.

Install

1. Position the external section of the door handle to the door panel, insert the internal components within the door

2. Inside the door at the back of the exterior door handle, push the slide attaching clip into position, which will fix the two sections of the door handle together.

3. Fit outer door handle and lock cylinder control rod to the lock assembly.

4. Install the lock assembly to the door, tighten the attaching screws.

5. Fit and clip the retainer clips on the rod from internal locking button and the internal door handle rod.

6. Replace the lock shield and screw.

7. Replace the water/dust protection cover, carefully, reglue back into position if necessary.

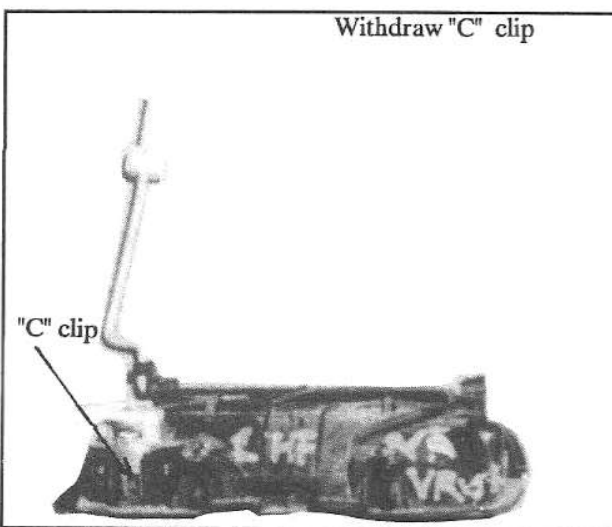
8. Carefully position the door trim on to the door aligning the retainers with the retainer holes in the door steel panel

DOOR LOCK CYLINDER

Remove

1. Remove the exterior door handle as previously described.

2. Remove the lock activating rod from the door lock assembly.



3. Remove "C" clip from rear of exterior door handle.
4. Remove cylinder.

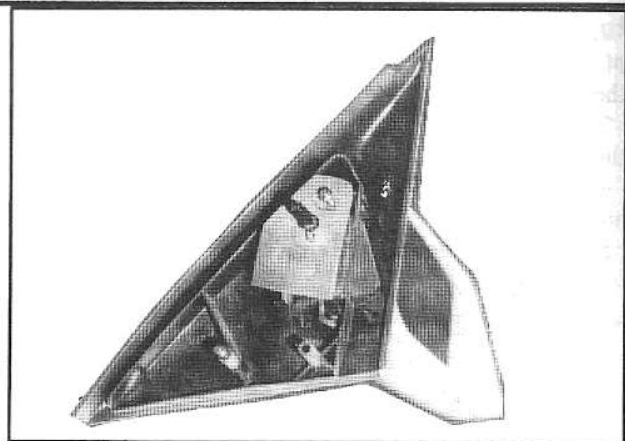
Install

1. Fit lock cylinder or barrel into the outer door handle and fit "C" clip.
2. Connect the rod to the door lock assembly rod.
3. Replace the exterior door handle.

FRONT DOOR WINDOW GLASS

Remove

1. Remove the inner pull handle as previously described.
2. Remove the window regulator handle.
3. Use the thin narrow blade with a hook, slide it down behind the push down door lock knob. Catch the hook under the knob and gradually pull the knob off.
4. Remove the mirror cover on front doors. Remove cover plug, screw behind plug, pull cover off and back to free the cover from the centre support.
5. Prise the door trim away from the door with a screw driver or strong flat tool.
6. Remove the water/dust protection cover carefully so it can be reglued back into position.

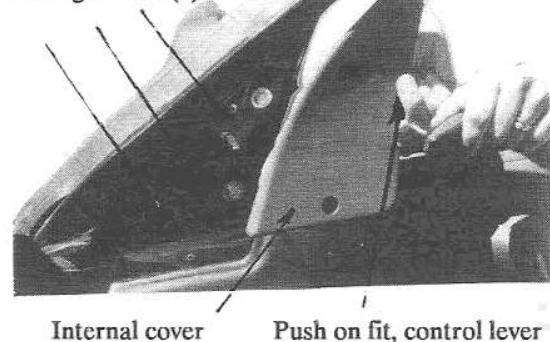


7. Remove the front window channel, 2 screws near the top of the channel (on top section of channel), 1 pop rivet at the top of the channel near where it joins the top door

Remove the front door rear vision mirror

Mirror assembly

Attaching screws (3)



frame, 1 screw at the bottom of the channel.

8. Fit the window regulator to lower the window glass, this will move the window regulator rollers to the glass end of the roller channels, remove the roller stops.

9. Slide the window side ways to release the rollers from the roller channels,

10. Tilt the glass forward and remove the glass upwards through the glass opening, from the outside of the door.

Remove the window glass

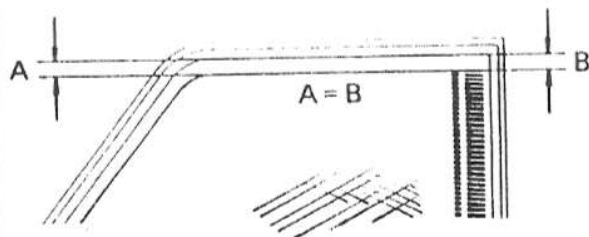


Pull up and towards the front, from the outside of the vehicle

Install

1. Install the glass in through the glass opening, from outside of the door, tilt the glass forward and slide down.
2. Slide the window side ways to fit the rollers into the roller channels fit roller stops.
3. Replace the front window channel, 2 screws near the top of the channel (on top section of channel), 1 pop rivet at the top of the channel near where it joins the top door frame, 1 screw at the bottom of the channel.
5. Check that the glass runs freely in runs.

Ensure the window is horizontal



Measurements "A" & "B" should be equal

Adjustment: First pull the glass tightly into the window rear run channel, to adjust the window glass. Then moving the window regulator cam down to remove excess clearance and at the same time maintaining a horizontal attitude, tighten the adjusting screws. Remove any excess clearance that may be apparent in the front window run channel by moving the run channel towards the window glass.

6. Replace the water/dust protection cover, carefully reglue back into position if necessary.
7. Carefully position the door trim on to the door aligning the retainers with the retainer holes in the door steel panel
8. If any of the door inner trim panel retainers become dislodged, a general purpose hot melt adhesive, can be used to glue these retainers back to the door trim.
9. Once the door trim is in position fit the attachments back, such as window regulator handle, door handle and screw on mouldings, plus the mirror cover and screw.

REAR DOOR WINDOW**Remove**

1. Remove the inner pull handle as previously described.
2. Remove the window regulator handle as previously described.
3. Use the thin narrow blade with a hook or screw driver with hooked blade, slide it in along the side of the red section of the locking knob, catch the red section and pull it out and away from the locking knob. The red section fixes the locking knob to the door lock rod. Lift the locking knob off the locking rod. Remove screw behind lock rod.
4. Prise the door trim away from the door with a screw driver or strong flat tool.

5. Remove the water/dust protection cover, carefully so it can be reglued back into position.

6. Remove the weather strips from the door.
7. Remove the rear window channel, 2 screws in the lower half of the channel (in the door shell), 1 pop rivet at the top of the channel near where it joins the top door frame, 2 pop rivets from the rear door lock.

Remove the rear window channel

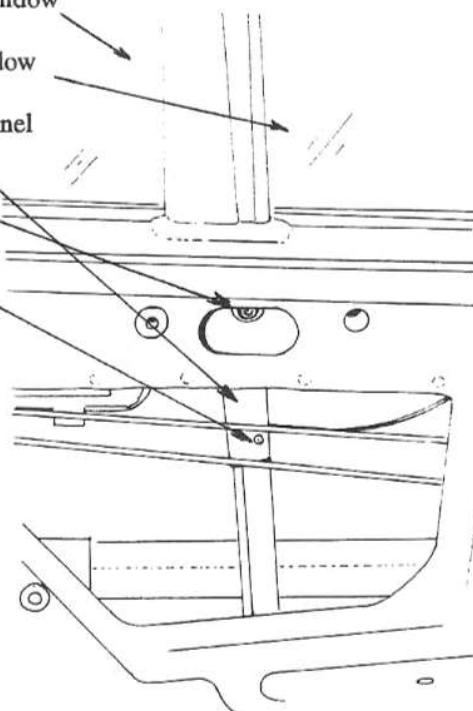
Fixed glass window

Movable window

Window channel

Screw

Pop rivets



8. Fit the window regulator to lower the window glass, this will move the window regulator rollers to the glass end of the roller channels, remove the roller stops.

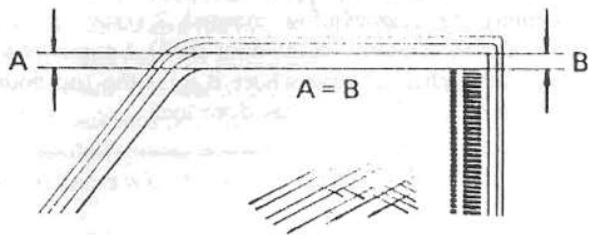
9. Slide the window side ways to release the rollers from the roller channels,
10. Tilt the glass to the rear and remove the glass upwards through the glass opening, from the outside of the door.

Install

1. Install the glass in through the glass opening, from outside of the door, tilt the glass to the rear and slide down.
2. Slide the window side ways to fit the rollers into the roller channels fit roller stops.
3. Replace the rear window channel, 2 screws in the lower half of the channel (in the door shell), 1 pop rivet at the top of the channel near where it joins the top door frame, 2 pop rivets from the rear door lock.
4. Check that the glass runs freely in runs.

Adjustment: First pull the glass tightly into the window rear run channel, to adjust the window glass. Then moving the window regulator cam down to remove excess clearance and at the same time maintaining a horizontal attitude, tighten the adjusting screws. Remove any excess clearance that may be apparent in the rear window run

Ensure measurements "A" & "B" are equal



Window glass must be horizontal.

channel by moving the run channel towards the window glass.

5. Replace the weather strips to the door frame.
6. Replace the water/dust protection cover, carefully reglue back into position if necessary.
7. Carefully position the door trim on to the door aligning the retainers with the retainer holes in the door steel panel
8. If any of the door inner trim panel retainers become dislodged, a general purpose hot melt adhesive, can be used to glue these retainers back to the door trim.
9. Once the door trim is in position fit the attachments back, such as window regulator handle, door handle and screw on mouldings, plus the mirror cover and screw.

REAR DOOR FIXED WINDOW GLASS

Remove

1. Remove the inner pull handle as previously described.
2. Remove the window regulator handle as previously described.
3. Use the thin narrow blade with a hook or screw driver with hooked blade, slide it in along the side of the red section of the locking knob, catch the red section and pull it out and away from the locking knob. The red section fixes the locking knob to the door lock rod. Lift the locking knob off the locking rod. Remove screw behind lock rod.
4. Prise the door trim away from the door with a screw driver or strong flat tool.
5. Remove the water/dust protection cover, carefully so it can be reglued back into position.
6. Remove the weather strips from the door.
7. Remove the rear window channel, 2 screws in the lower half of the channel (in the door shell), 1 pop rivet at the top of the channel near where it joins the top door frame, 2 pop rivets from the rear door lock.
8. With the window wound down manoeuvre the rear glass channel forwards at the top (it may be necessary to completely remove the channel).
9. Remove or ease forward the rubber seal between the back fixed glass and the moved window channel.
10. Prise out the fixed glass panel.

Install

Remove the rear window channel

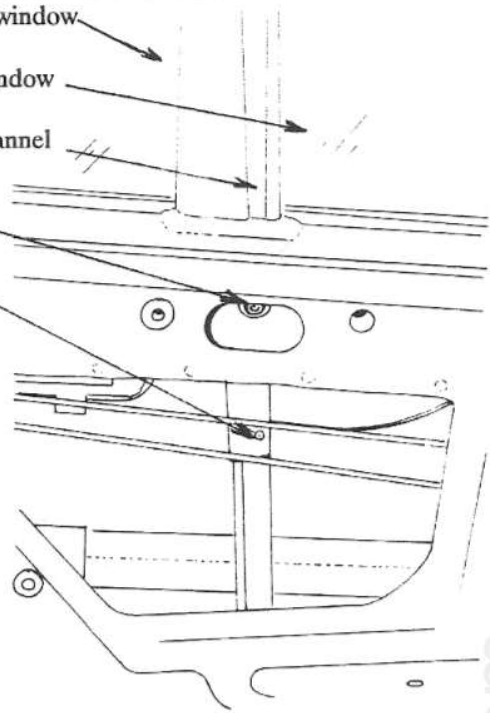
Fixed glass window

Movable window

Window channel

Screw

Pop rivets

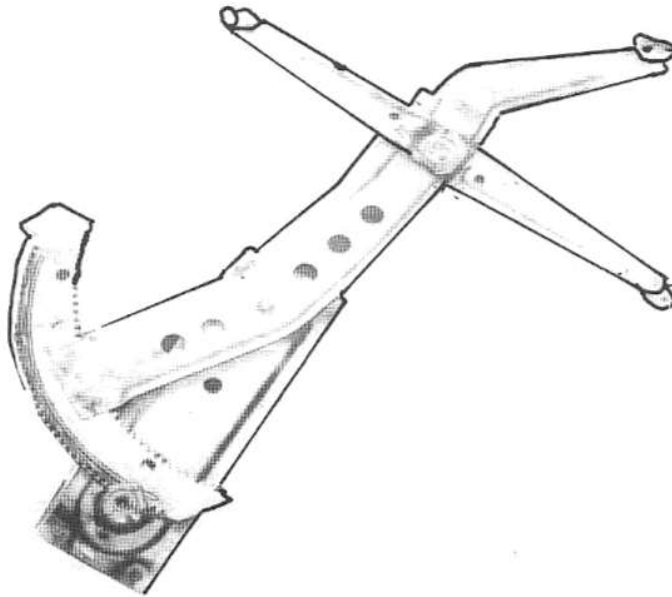


1. Slide the glass into position, gently tap the glass home with a rubber mallet.
2. Replace the rubber seal between the fixed glass and the window channel.
3. Replace the window into its original position.
4. Replace the rear window channel, 2 screws in the lower half of the channel (in the door shell), 1 pop rivet at the top of the channel near where it joins the top door frame, 2 pop rivets from the rear door lock.
5. Check that the glass runs freely in runs.

Adjustment: First pull the glass tightly into the window rear run channel, to adjust the window glass. Then moving the window regulator cam down to remove excess clearance and at the same time maintaining a horizontal attitude, tighten the adjusting screws. Remove any excess clearance that may be apparent in the front window run channel by moving the run channel towards the window glass.

6. Replace the weather strips to the door frame.
7. Replace the water/dust protection cover, carefully reglue back into position if necessary.
8. Carefully position the door trim on to the door aligning the retainers with the retainer holes in the door steel panel
9. If any of the door inner trim panel retainers become dislodged, a general purpose hot melt adhesive, can be used to glue these retainers back to the door trim.
10. Once the door trim is in position fit the attachments back, such as window regulator handle, door handle and screw on mouldings, plus the mirror cover and screw.

Front Window Regulator



FRONT DOOR WINDOW REGULATOR

Remove

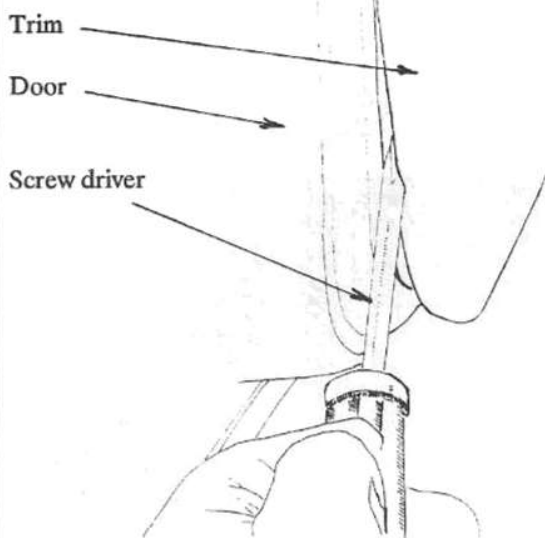
1. Remove the inner pull handle as previously described.
2. Remove the regulator handle as previously described.
3. Use the thin narrow blade with a hook or screw driver with hooked blade, slide it in along the side of the red section of the locking knob, catch the red section and pull it out and away from the locking knob. The red section fixes the locking knob to the door lock rod. Lift the locking knob off the locking rod. Remove screw behind lock rod.
4. Remove the mirror cover on front doors. Remove cover plug, screw behind plug, pull cover off and back to free the cover from the centre support.
5. Prise the door trim away from the door with a screw driver or strong flat tool.
6. Remove the water/dust protection cover carefully so it can be reglued back into position.
7. Remove the front window channel, 2 screws near the top of the channel (on top section of channel), 1 pop rivet at the top of the channel near where it joins the top door frame, 1 screw at the bottom of the channel.
8. Fit the window winder to lower the window glass, this will move the window regulator rollers to the glass end of the roller channels, remove the roller stops.
9. Slide the window side ways to release the rollers from the roller channels.
10. Tilt the glass forward and remove the glass upwards through the glass opening, from the outside of the door.
11. Remove the 2 bolts from the arm support.
12. Remove the 4 pop rivets from the regulator.

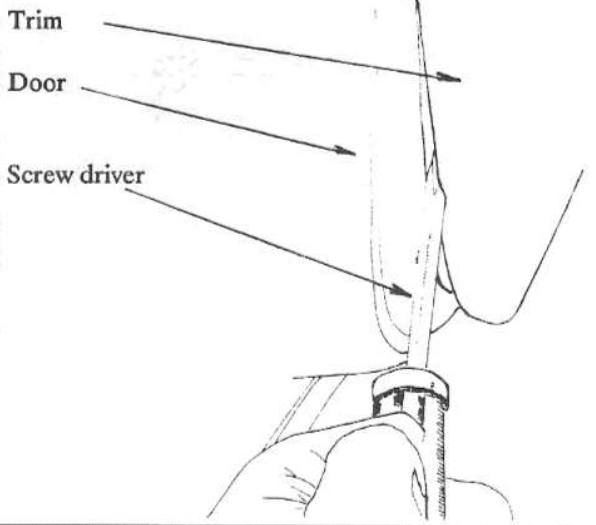
13. Manoeuvre the regulator and scissor arms out from the door shell.

Install

1. Manoeuvre the regulator and scissor arms into position in the frame of the door shell.
2. Replace the 4 pop rivets to the regulator.
3. Replace the 2 bolts to the arm support.

Remove the inner door trim



Remove the inner door trim

4. Install the glass in through the glass opening, from outside of the door, tilt the glass forward and slide down.
5. Slide the window side ways to fit the rollers into the roller channels fit roller stops.
6. Replace the front window channel, 2 screws near the top of the channel (on top section of channel), 1 pop rivet at the top of the channel near where it joins the top door frame, 1 screw at the bottom of the channel.
7. Check that the glass runs freely in runs.

Adjustment: First pull the glass tightly into the window rear run channel, to adjust the window glass. Then moving the window regulator cam down to remove excess clearance and at the same time maintaining a horizontal

attitude, tighten the adjusting screws. Remove any excess clearance that may be apparent in the front window run channel by moving the run channel towards the window glass.

8. Replace the water/dust protection cover, carefully reglue back into position if necessary.

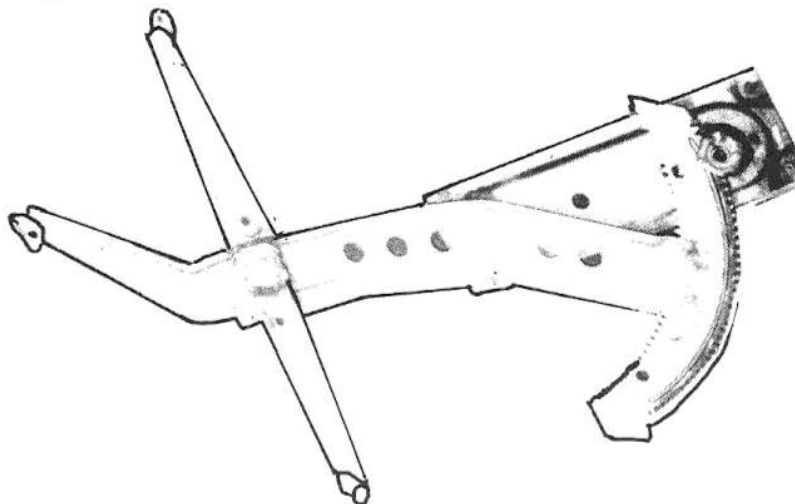
9. Carefully position the door trim on to the door aligning the retainers with the retainer holes in the door steel panel

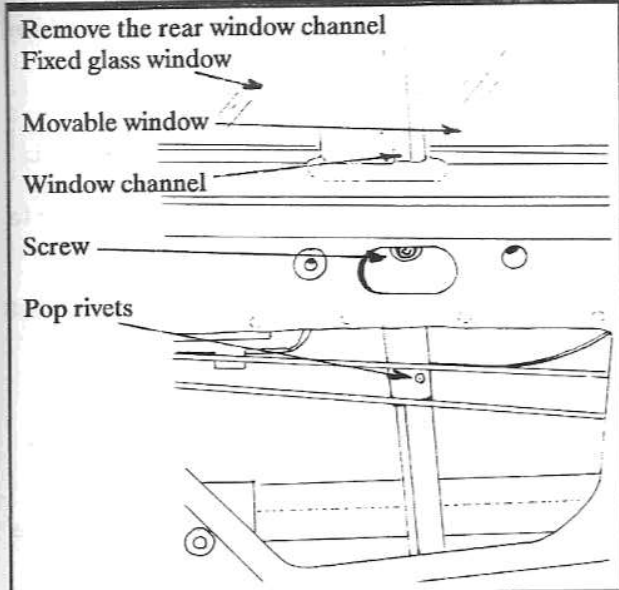
10. If any of the door inner trim panel retainers become dislodged, a general purpose hot melt adhesive, can be used to glue these retainers back to the door trim.

11. Once the door trim is in position fit the attachments back, such as window regulator handle, door handle and screw on mouldings, plus the mirror cover and screw.

REAR DOOR WINDOW REGULATOR**Remove**

1. Remove the inner pull handle as previously described.
2. Remove the regulator handle as previously described.
3. Use the thin narrow blade with a hook or screw driver with hooked blade, slide it in along the side of the red section of the locking knob, catch the red section and pull it out and away from the locking knob. The red section fixes the locking knob to the door lock rod. Lift the locking knob off the locking rod. Remove screw behind lock rod.
4. Prise the door trim away from the door with a screw driver or strong flat tool.
5. Remove the water/dust protection cover carefully so it can be reglued back into position.
6. Remove the weather strips from the door.
7. Remove the rear window channel, 2 screws in the lower half of the channel (in the door shell), 1 pop rivet at

Rear Door Window Regulator



the top of the channel near where it joins the top door frame, 2 pop rivets from the rear door lock.

8. Fit the window winder to lower the window glass, this will move the window regulator rollers to the glass end of the roller channels, remove the roller stops.

9. Slide the window side ways to release the rollers from the roller channels,

10. Tilt the glass to the rear and remove the glass upwards through the glass opening, from the outside of the door.

11. Remove the 7 pop rivets with a drill and remove the regulator from the door frame.

Install

1. Manoeuvre the regulator into the rear door shell and replace the 7 pop rivets.

2. Install the glass in through the glass opening, from outside of the door, tilt the glass to the rear and slide down.

3. Slide the window side ways to fit the rollers into the roller channels fit roller stops.

4. Replace the rear window channel, 2 screws in the lower half of the channel (in the door shell), 1 pop rivet at the top of the channel near where it joins the top door frame, 2 pop rivets from the rear door lock.

5. Check that the glass runs freely in runs.

Adjustment: First pull the glass tightly into the window rear run channel, to adjust the window glass. Then moving the window regulator cam down to remove excess clearance and at the same time maintaining a horizontal attitude, tighten the adjusting screws. Remove any excess clearance that may be apparent in the front window run channel by moving the run channel towards the window glass.

6. Replace the weather strips to the door frame.

7. Replace the water/dust protection cover, carefully reglue back into position if necessary.

8. Carefully position the door trim on to the door aligning the retainers with the retainer holes in the door steel panel

9. If any of the door inner trim panel retainers become dislodged, a general purpose hot melt adhesive, can be used to glue these retainers back to the door trim.

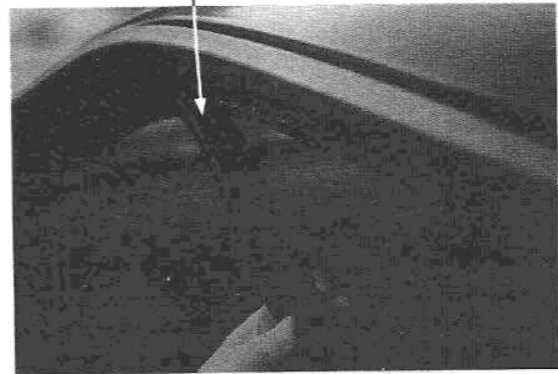
10. Once the door trim is in position fit the attachments back, such as window regulator handle, door handle and screw on mouldings, plus the mirror cover and screw.

FRONT & REAR DOOR BODY WEATHERSTRIP

Remove

1. Remove the floor side panel cover.
2. Remove the weatherstrip, from around the body panels in the door openings.

Front door body weatherstrip



Install

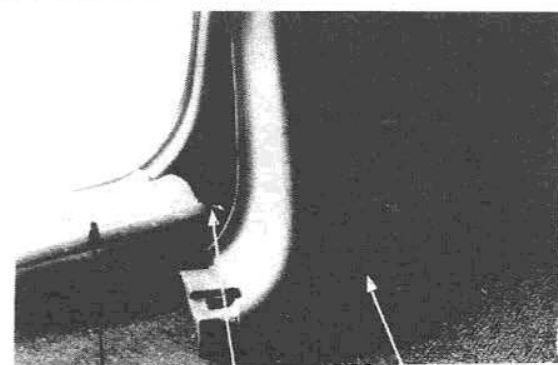
1. Replace the weatherstrip, pushing the finishing lace and weatherstrip into the door opening.
2. Replace the floor side panel cover.

PILLAR & FLOOR SIDE PANEL MOULDING

Remove

1. Remove the pillar moulding by prizing the lugs half way up the pillar.
2. Remove the seat belt anchor from the floor.
3. Lift and prize with the help of a screw driver, the moulding. Have the front and rear doors open and the front seat push forward.

Pillar and Floor Moulding



Floor side panel

Insert

Side kick panel

Install

1. Slide and clip the mouldings into place.
2. Replace the seat belt anchor from the floor.

DOOR EXTERNAL WEATHERSTRIP & MOULDING**Remove**

Use a screw driver to lift the end of the external weather strip at the door opening, gradually lift the strip from the door. Have the window wound down, as this will help in removing the strip.

Install

Fit the weatherstrip to the door at the opening end, gradually work the strip into the door shell moulding working to the other end of the door. Have the window wound down, otherwise the strip will not work into the door moulding.

REAR VIEW MIRROR (MANUAL EXTERNAL)**Remove**

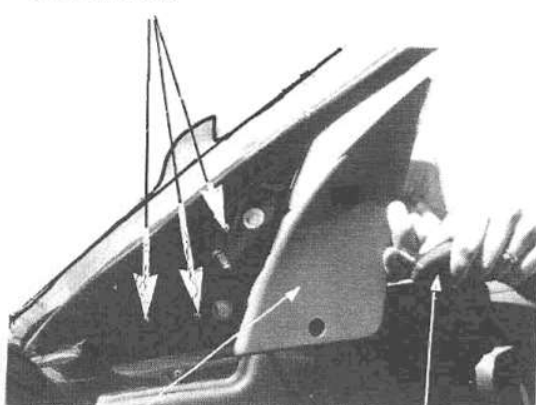
1. Remove screw cover plug and screw behind plug.
2. Remove the mirror lever knob by pulling firmly.
3. Pull the cover off and back to free the cover from the door.

Remove screw cover plug and screw behind plug.
External Mirror



Remove screw behind plug

Three screws



Cover

Mirror Control Knob

4. Remove the 3 internal screws which clamp the mirror to the door.

5. Remove the mirror assembly from the door.

Install

1. Replace the seal to the door frame if it is damaged.
2. Install the mirror assembly to the front door frame.
3. Replace the 3 securing screws to clamp the mirror to the door.
4. Replace the cover from the inside of the door.
5. Replace the lever knob, push on fit.
6. Replace the cover screw and the screw plug.
7. Check operation of the mirror.

REAR VIEW MIRROR (EXTERNAL ELECTRIC)**Remove**

1. Remove screw cover plug and screw behind plug.
2. Pull the cover off and back to free the cover from the centre support.
3. Remove the window regulator handle as previously described.
4. Remove the inner pull handle as previously described.
5. Use the thin narrow blade with a hook or screw driver with hooked blade, slide it in along the side of the red section of the locking knob, catch the red section and pull it out and away from the locking knob. The red section fixes the locking knob to the door lock rod. Lift the locking knob off the locking rod. Remove screw behind lock rod.
6. Prise the door trim away from the door with a screw driver or strong flat tool.
7. Remove the water/dust protection cover carefully so it can be reglued back into position.
8. Disconnect the wiring loom connectors from the electrical mirror wiring loom.
9. Remove screw cover plug and screw behind plug.
10. Remove the electrical control using a pocket knife to prise the lever clips from the internal mirror coupling.
11. Remove the 3 internal screws which clamp the mirror to the door.

12. Remove the mirror assembly from the door.

Install

1. Replace the seal to the door frame if it is damaged.
2. Install the mirror assembly to the front door frame.
3. Replace the 3 securing screws to clamp the mirror to the door.
4. Reconnect the electrical wiring loom connectors of the electrical mirror.
5. Replace the water/dust protection cover, carefully reglue back into position if necessary.
6. Carefully position the door trim on to the door aligning the retainers with the retainer holes in the door steel panel
7. If any of the door inner trim panel retainers become dislodged, a general purpose hot melt adhesive, can be used to glue these retainers back to the door trim.
8. Replace the cover from the inside of the door.
9. Replace the cover screw and the screw plug.
10. Check operation of the mirror.

Boot Lid, Station Wagon & Utility Tailgate

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BOOT LID

Remove

1. Prop the boot lid open. For reference when refitting the hinge, mark the hinge position of the boot lid with a felt pen.
2. Place a cover under the hinge end of the boot lid to prevent paint damage, when the hinge bolts are removed.

3. Remove the hinge to the boot lid bolts.
4. Remove the boot lid.
5. Remove the hinge attaching bolts and remove the hinge.

Install

1. Replace the hinge. Replace the hinge attaching bolts and tighten to specification.

Hinge - Body Attaching Bolts specified torque: 15-20Nm

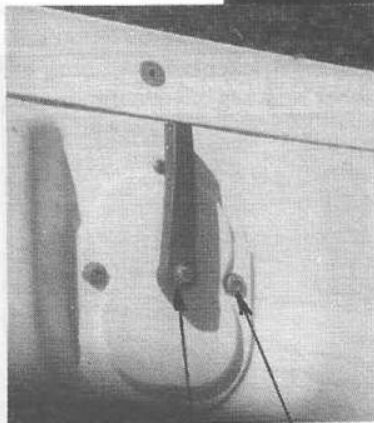
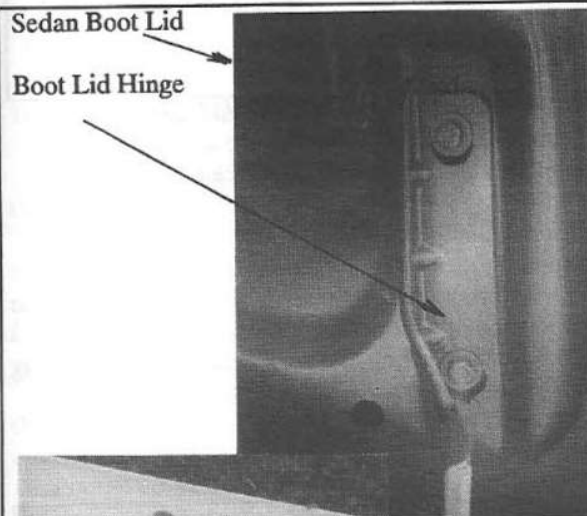
2. Install the boot lid to the hinge, taking note of the felt marks made during removal. Install bolts and tighten to specification.

Hinge to Boot Lid Bolts specified torque: 15-20Nm

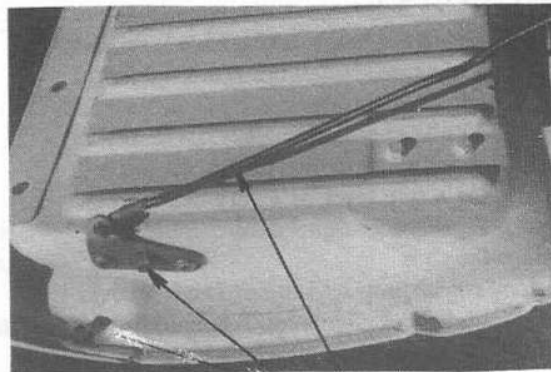
3. Take the door safety prop and the protection cover off. Close the door and check alignment. After any necessary adjustments tighten the hinge attaching nuts.

Adjust

1. Loosen slightly the hinge to boot lid bolts, gently close the lid and check the surrounding edges of the boot lid.



Utility tailgate lever. Lever screw. Catch screws



Tailgate restraining cable and catch lug.

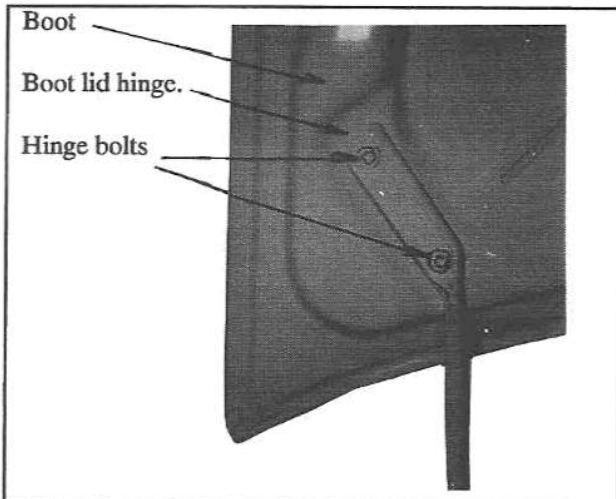
2. There should be an even gap on all sides of the boot lid.
3. If not raise boot lid and firmly but carefully move the lid on the hinges so as to correct the position of the boot lid.
4. Lower boot lid, check clearance gaps, if correct lift lid and tighten the bolts to specification.

Hinge to Boot Lid bolts specified torque: 15-20Nm

BOOT LID HINGE & TORSION BARS

Remove

1. Prop the boot lid open. For reference when refitting the hinge, mark the hinge position of the boot lid with a felt pen.
2. Place a cover under the hinge end of the door to prevent paint damage.
3. Remove the torsion rods from each of the hinges, remove the right torsion rod first. Use a tyre lever or a very heavy screw driver, take care as there is quite considerable force needed to remove the rods.
4. Remove the hinge to the boot lid bolts.
5. Remove the boot lid.



6. Remove the hinge attaching bolts and remove the hinge.

Install

1. Replace the hinge. Replace the hinge attaching bolts and tighten to specification.

Hinge - Body Attaching Bolts specified torque: 15-20Nm

2. Install the boot lid to the hinge, taking note of the felt marks made during removal. Install bolts and tighten to specification.

Hinge to Boot Lid Bolts specified torque: 15-20Nm

3. Replace the torsion rods to the hinges, fit the left torsion rod first. Use a tyre lever or a very heavy screw driver, take care as there is quite considerable force needed to replace the rods.
4. Take the door safety prop and the protection cover off. Close the door and check alignment. After any necessary adjustments tighten the hinge attaching nuts.

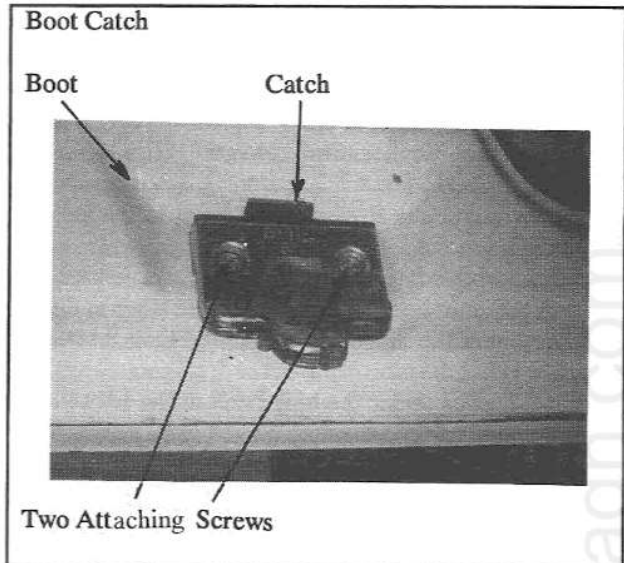
BOOT CATCH & LOCK

Remove

1. Open the boot lid and remove the two screws from the latch.
2. Remove the 2 screws from the remote solenoid.
3. Remove the catch, 2 screws and rod assembly.
4. Use a small screw driver to push in the spring tabs on the key lock, gently remove the lock cylinder from the boot lid.

Install

1. Push the lock cylinder into the opening in the boot lid, it may require a firm push to push the lock in far enough for the spring tabs to be in position.



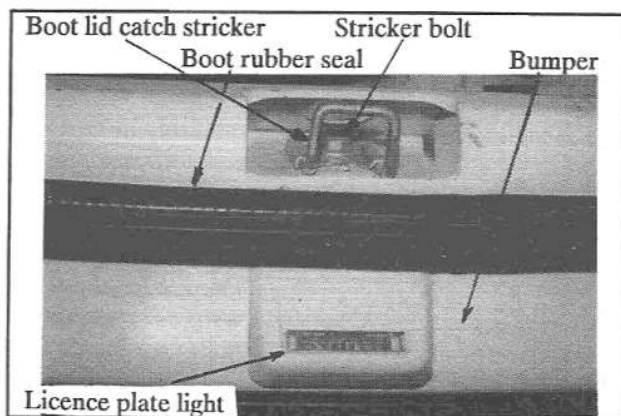
2. Replace the catch 2 screws and rod assembly.
3. Install the 2 screws to the remote solenoid.
4. Replace the two screws from the latch.

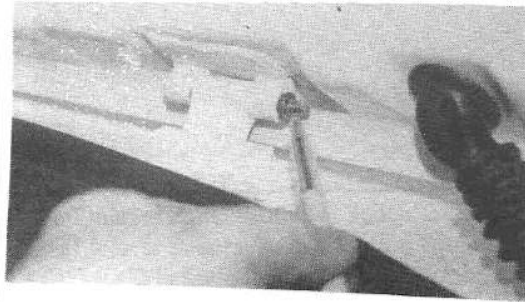
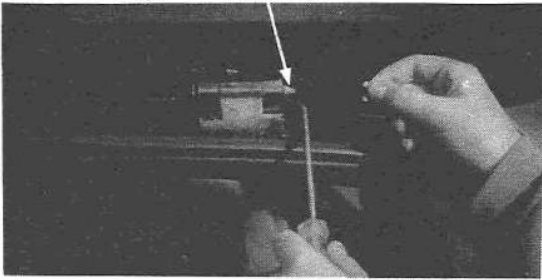
BOOT LID CATCH STRICKER

Remove

1. For reference when refitting the striker, mark the hinge position of the boot lid with a felt pen.
2. Remove the one bolt and remove the striker clamping plate.
3. Remove the striker.

Install



Station Wagon Tailgate**Remove Tailgate Hinge C-clip**

Have assistant hold the tailgate, position the tail to the correct position and punch the hinge pin into the hinge, fit retaining "C" clip

1. Replace the striker taking note of the position of the felt pen markings made during removal.
2. Install the clamping plate and bolt, tighten to specification.

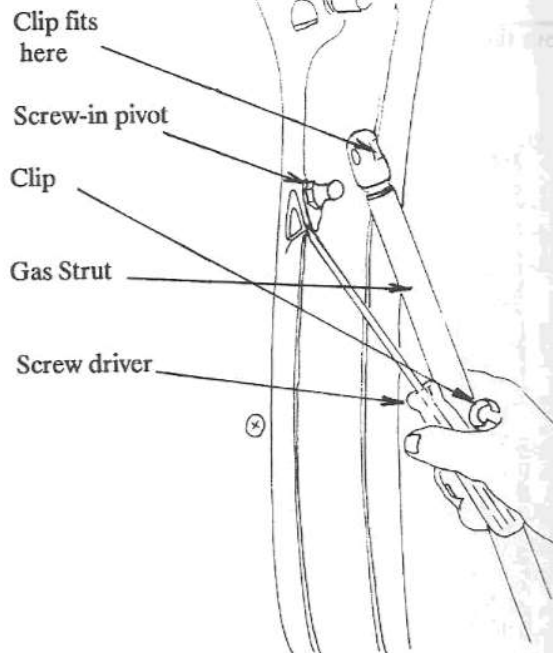
Striker Bolt specified torque: 20-25Nm

TAILGATE STATION WAGON**Remove**

1. Remove the rear tailgate interior trim panel, prise out the fasteners.
2. Disconnect the rear tailgate wiring loom connectors and withdraw the loom from the tailgate.
3. Remove the back window washer nozzle hose and jet from the tailgate.
4. Prop the tail gate open.
5. Pry the lower gas strut retaining clip from the ball on the prop mounting stud, slide the prop sideways to disengage.
6. Pry the upper gas strut retaining clip from the ball on the prop mounting stud, slide the prop sideways to disengage, remove the gas strut.
8. Have assistant hold the tailgate, remove "C" clip, using a narrow punch and punch the hinge pin out from the hinge.

Install

1. Have assistant hold the tailgate, position the tail to the correct position and punch the hinge pin into the hinge, fit retaining "C" clip.
2. Connect the lower end of the gas strut to the strut support ball.

Remove Gas Strut**Lever off with screw driver**

3. Replace the back window washer nozzle hose and jet into the tailgate.

4. Install the wiring loom and connect the rear tailgate wiring loom connectors.

5. Replace the rear tailgate interior trim panel.

REAR TAILGATE GAS STRUT**Remove**

1. Prop the tailgate open.
2. Pry the lower gas strut retaining clip from the ball on the prop mounting stud, slide the prop sideways to disengage.
3. Pry the upper gas strut retaining clip from the ball on the prop mounting stud, slide the prop sideways to disengage, remove the gas strut.

Install

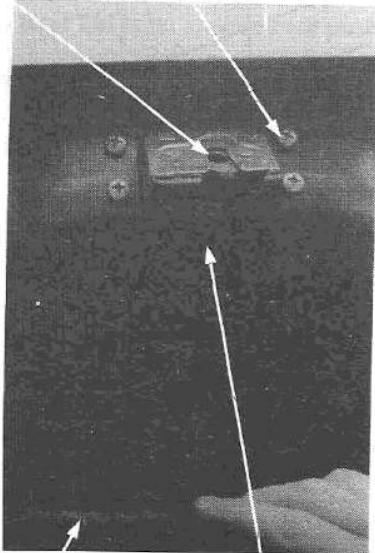
1. Install the upper gas strut to the mounting ball, push on, then engage the retaining clip.
2. Install the upper gas strut to the ball on the prop mounting stud, slide the prop sideways to engage, lock on by fixing the clip in the correct position.
3. Install the lower gas strut to the ball on the prop mounting stud, slide the prop sideways to engage, lock on by fixing the clip in the correct position.

TAILGATE CATCH - Station Wagon**Remove**

1. Remove the rear tailgate interior trim panel, prise out the fasteners.

2. Remove the 4 screws securing the catch to the tailgate.
3. Inside the tailgate disconnect the rod from the external opening lever to the catch.
4. Remove the catch assembly.

Remove the 4 screws securing the catch to the tailgate
Catch 4 Screws



Interior Trim Panel Disconnect Rod

Remove the rear tailgate interior trim panel
Disconnect the rod from the external opening lever

Install

1. Install the catch assembly into the tailgate.
2. Inside the tailgate connect the rod to the external opening lever to the catch.
3. Install the 4 screws securing the catch to the tailgate.
4. Replace the rear tailgate interior trim panel, push in the fasteners.

TAILGATE CATCH STRICKER - STATION WAGON

Remove

1. For reference when refitting the striker, mark the hinge position of the boot lid with a felt pen.
2. Remove the two torx screws and remove the striker clamping plate.
3. Remove the striker.

Install

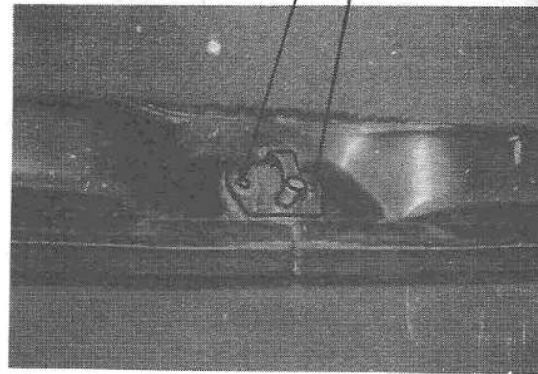
1. Replace the striker taking note of the position of the felt pen markings made during removal.
2. Install the striker plate and torx screws, tighten to specification.

Striker bolt specified torque:

20-25Nm

Remove the one bolt and remove the striker clamping plate

Station Wagon lock striker two torx screws



FUEL TANK CAP LID

Removal

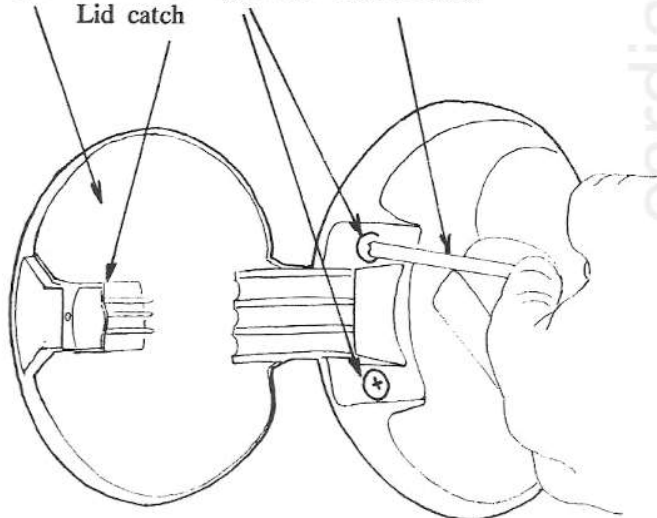
Open the fuel tank cap lid, take the hinge out, remove the screws and remove the cap lid.

Install

Install the fuel tank cap lid and hinge into the correct position, fit and tighten the securing screws,

Fuel Cap Lid

Cap Lid Attaching screws Screw Driver
Lid catch



FIXED WINDOW GLASS

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GENERAL INFORMATION

The windscreen is a laminated type of glass which has a plastic lamination between two layers of safety glass. If

struck hard enough it will crack into a large section enabling the driver to stop the vehicle safely.

The vehicle manufacture fitted windscreen and rear windows are held in position by a compound adhesive. Service kits for replacement windows use a thermo electric butyl tape.

WINDSCREEN

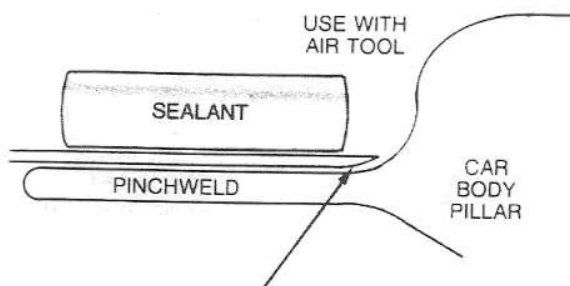
REMOVE

1. Remove windscreen wiper arms.
2. Remove sun visors, interior rear vision mirror.
3. Remove windscreen moulding.
4. Remove moulding retainers from around glass opening such as demist grille, speaker grille, dash end air ducts.
5. Apply cloth tape around opening perimeter of windscreen to protect paint finish.
6. Using a sharp bladed instrument such as BTB Windscreen removal blade. Lubricate the blade with soapy water, cut the urethane from centre top inside the vehicle. These blades can be used with an air tool or manual handle, it may be necessary to use long blades to work down behind the dash panel.

BTB Windscreen removal tools. Using a manual handle blade

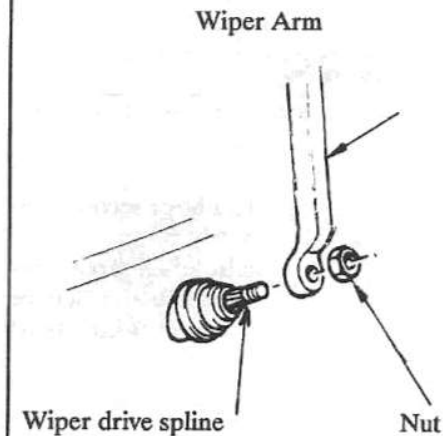


Using an air powered tool with blade



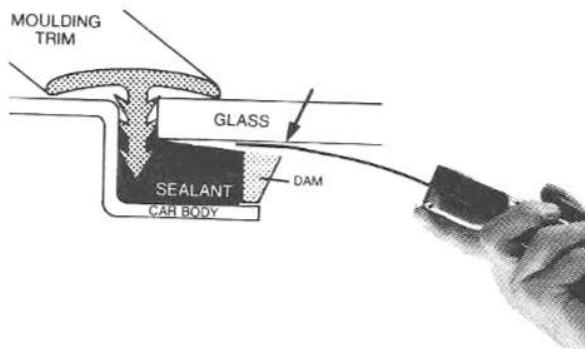
Trim excess sealant from the external edge of the windscreen

Cut sealant away from the pinchweld

Remove windscreen wiper arm

7. Cutting from the top, then down each side, easing glass forward to an upright position and cutting through bottom material.

Cut with the back of the blade flat against the glass surface.

**Order of cutting**

9. If glass is to be reused, remove old adhesive with a suitable knife being careful not to damage glass surface.

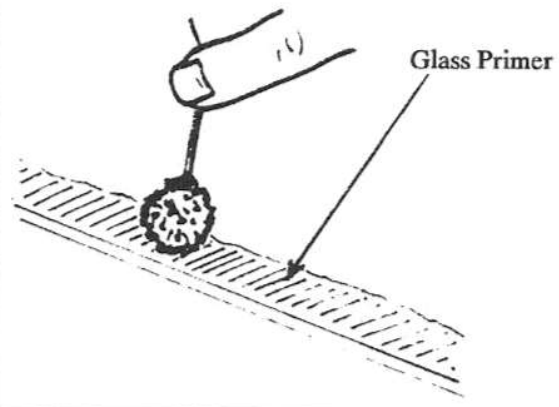
10. Trim excess sealant from the external edge of the windscreen

11. Cut sealant away from the pinchweld, so the new glass and sealant has an even surface to bond too.

Remove as much adhesive, from body flange as possible without damaging paint finish or flange on body.

GLASS PREPARATION

Degrease glass bonding surface 20 mm around perimeter of glass



1. Degrease glass bonding surface 20 mm around perimeter of glass, using an oil free cleaning solvent.

2. Apply a thin coating of glass primer around glass on bonding surface. Allow to dry for 10-15 minutes.

NB: The primed surface must not be touched, if this occurs it must be primed again.

3. Bare end of butyl tape to copper wire core for 30 to 40 mm. Remove cloth only for a further 30 to 40 mm.

4. Starting in bottom corner of glass, position tape with cloth facing inwards.

NB: Excessive deformation of butyl tape is to be avoided.

5. With butyl tape positioned around window bare copper wire and remove cloth as previously described.

6. Position ends of tape together and keep copper wires well separated. Don't twist two ends of tape together, they must be pressed against each other.

BODY OPENING PREPARATION

1. Clean fence flange and any remaining adhesive with cleaning solvent and allow to dry for 5 to 10 minutes.

2. Apply body primer over metal flange to give a total "blacked-out" appearance. Allow to dry for 10 minutes, refer below.

3. Fit moulding retainers.

GLASS FITMENT

1. Centrally locate windscreen in opening on spacer blocks.

2. Connect ends of copper wire to a 32 volt, 10 amp transformer for 5 minutes ensuring electrical connections are not in contact with and hence damaging, the paint finish. The above stated time is for an ambient temperature of 20° to 25°. For lower temperatures it is necessary to apply power for a longer time to allow tape to soften.

NB: If a 32 volt transformer isn't available, two fully charged 12 volt vehicle batteries connected in series for 6 to 7 minutes, can be used.

3. As butyl tape softens, apply even pressure over glass to compress tape to approximately 6 mm, refer below.

NB: If tape isn't softened sufficiently excess pressure required to ensure sealing could lead to bowing of screen and cracking of outer lamination of glass.

4. Disconnect electrical supply and allow tape to cool.

5. Water test windscreen and note position of any leaks.

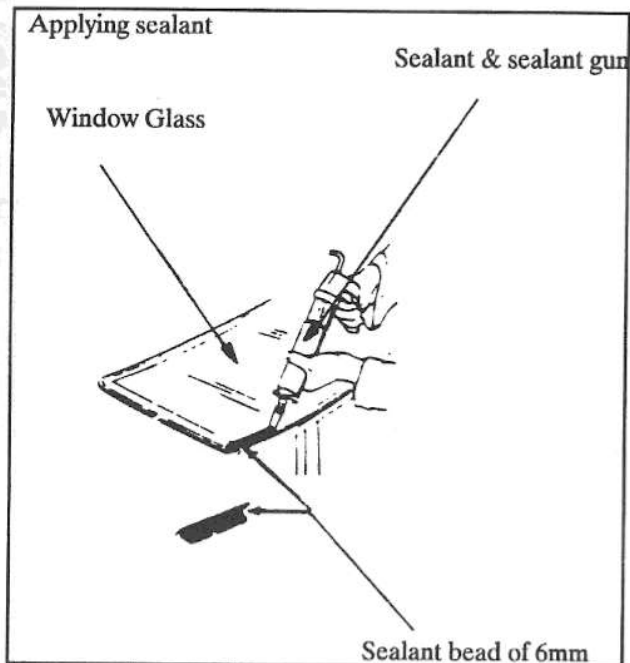
6. Remedy any leaks by thoroughly washing and drying screen and either reheating and repressurising or by secondary sealing with sealant.

NB: Bad or large leaks due to tape misplacement will necessitate removal and refitment of screen.

Installing Windscreen using Sealant

1. Using a flat blade or automatic applicator, apply a smooth continuous bead of urethane/silicon adhesive, between the centre and outer edge, around contact area of the entire perimeter of the body opening. The silicon should have an average size of 6mm in diameter.

* There are urethane window replacement kits for



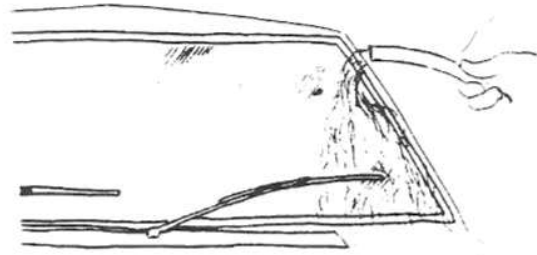
various windows. Follow the steps provided with the replacement kits.

2. Install the windshield, using small blocks of wood or plastic to help keep the glass at the correct height. When the glass is in the correct position, masking tape can be used to hold the glass in position. Press windshield gently until the glass is fitted into the correct position.

3. If any areas have gaps or the sealant is not visible. Apply extra sealant using a trowel or flat blade knife, or smooth existing sealant.

4. After the sealant has partly dried, $\frac{3}{4}$ to $1\frac{1}{2}$ hours depending on conditions. Test the glass perimeter for leaks with a low pressure water hose. If any leaks are

Water test the windshield, using a moderate spray of water.



found, apply extra sealant using a trowel or flat blade knife, or smooth existing sealant.

5. Clean off any excess urethane/silicon using commercial cleaning fluid or metholated spirits.

INSTALL WINDSCREEN COMPONENTS

Install the windscreen components in the following order.

- Windscreen moulding.
- Front speaker grille, demister grille, dash end air ducts.
- Front pillar trim.
- Interior rear vision mirror.
- Sunvisor.
- Windscreen wiper arms.

REAR WINDOW

Remove

1. Disconnect rear window defogger wiring.
2. Remove rear pillar trims and rear parcel shelf.

Rear Window



Station Wagon Rear Window
Glass window



Rear Door
Stationary Glass Window Movable Glass Window



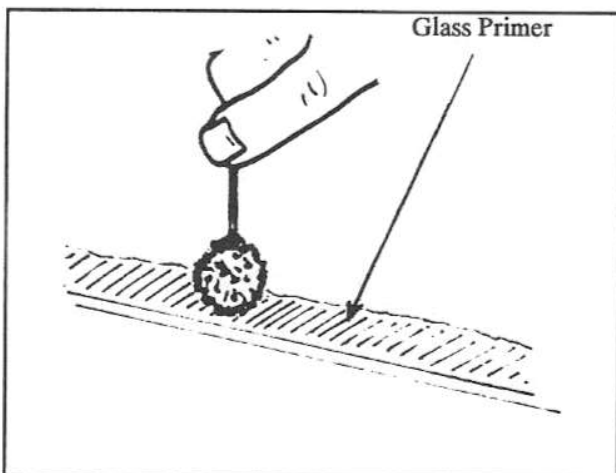
3. Remaining procedure is same as windscreen removal.

GLASS AND BODY PREPARATION

Procedure is same as windscreen section.

GLASS FITMENT

1. Glass bonding is carried out using procedure



detailed in Windscreen section.

2. Install following items reversing removal procedure:

- Rear window lower moulding.
- Headlining rear trim.
- Rear pillar garnishes
- Rear window upper moulding
- Rear parcel shelf.
- Rear pillar trims.

3. Connect rear window defogger wiring.

REAR DOOR FIXED WINDOW GLASS

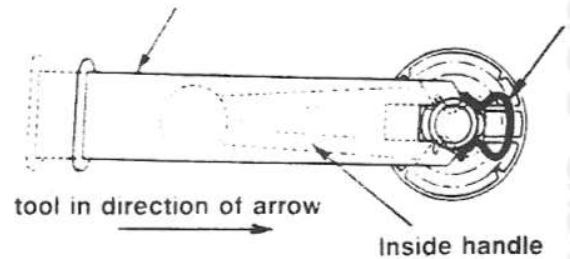
Remove

1. Remove the inner pull handle as previously described.

Remove the window regulator handle by sliding special tool behind regulator handle and pushing in.

Special tool

Spring clip



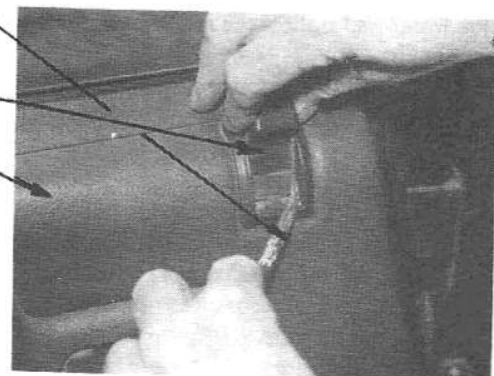
Window regulator handle

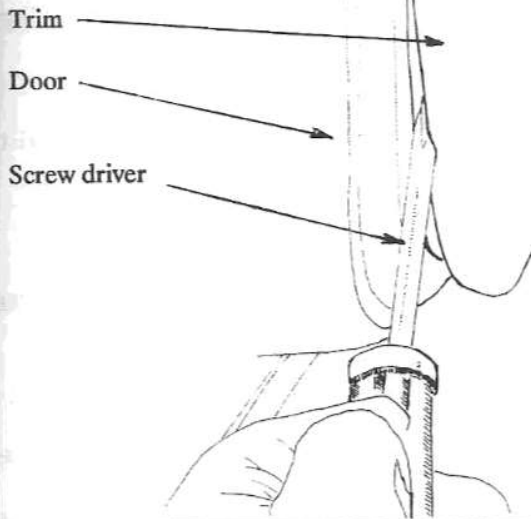
2. Remove the window regulator handle as previously described.

Hook

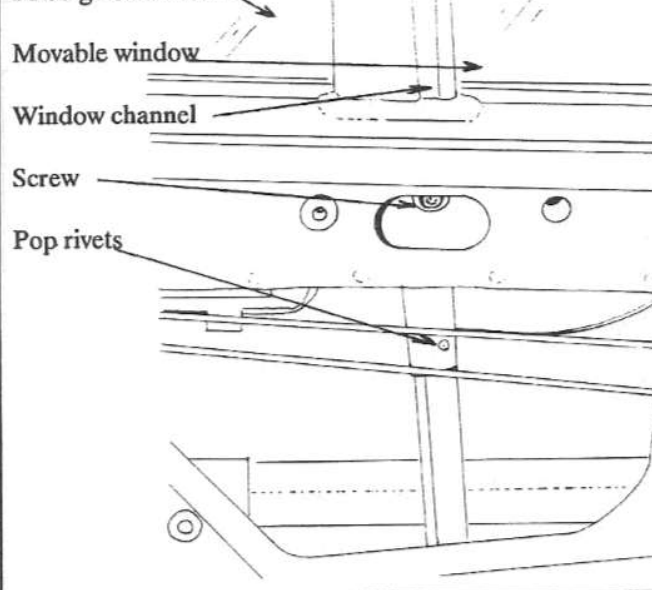
Knob

Door



Remove the inner door trim

3. Use the thin narrow blade with a hook or screw driver with hooked blade, slide it in along the side of the red section of the locking knob, catch the red section and pull it out and away from the locking knob. The red section fixes the locking knob to the door lock rod. Lift the locking knob off the locking rod. Remove screw behind lock rod.
4. Prise the door trim away from the door with a screw

Remove the rear window channel

driver or strong flat tool.

5. Remove the water/dust protection cover carefully so it can be reglued back into position.
6. Remove the weather strips from the door.
7. Remove the rear window channel, 2 screws in the lower half of the channel (in the door shell), 1 pop rivet at the top of the channel near where it joins the top door frame, 2 pop rivets from the rear door lock.

8. With the window wound down manoeuvre the rear glass channel forwards at the top (it may be necessary to completely remove the channel).

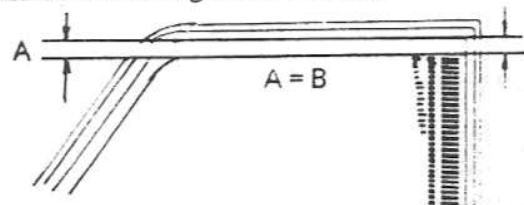
9. Remove or ease forward the rubber seal between the back fixed glass and the moved window channel.

10. Prise out the fixed glass panel.

Install

1. Slide the glass into position, gently tap the glass home with a rubber mallet.

2. Replace the rubber seal between the fixed glass and the window channel.

Ensure the window glass is horizontal

3. Replace the window into its original position.

4. Replace the rear window channel, 2 screws in the lower half of the channel (in the door shell), 1 pop rivet at the top of the channel near where it joins the top door frame, 2 pop rivets from the rear door lock.

5. Check that the glass runs freely in runs.

Adjustment: First pull the glass tightly into the window rear run channel, to adjust the window glass. Then moving the window regulator cam down to remove excess clearance and at the same time maintaining a horizontal attitude, tighten the adjusting screws. Remove any excess clearance that may be apparent in the front window run channel by moving the run channel towards the window glass.

6. Replace the weather strips to the door frame.

7. Replace the water/dust protection cover carefully, reglue back into position if necessary.

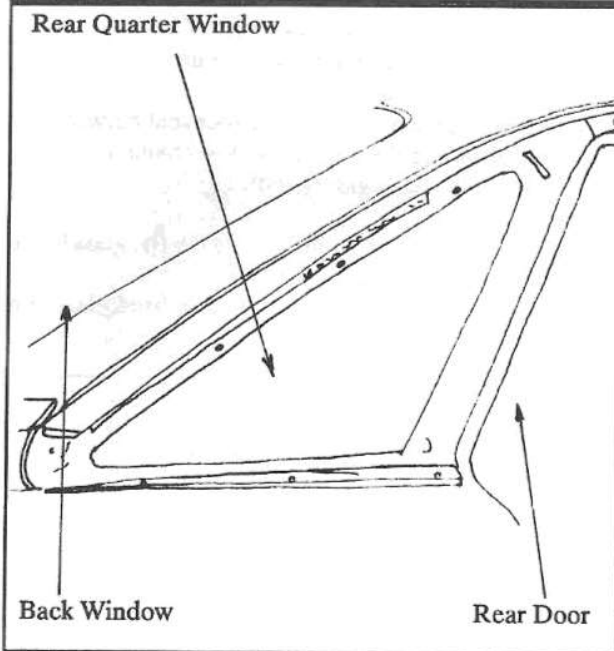
8. Carefully position the door trim on to the door aligning the retainers with the retainer holes in the door steel panel

9. If any of the door inner trim panel retainers become dislodged, a general purpose hot melt adhesive, can be used to glue these retainers back to the door trim.

10. Once the door trim is in position fit the attachments back, such as window regulator handle, door handle and screw on mouldings, plus the mirror cover and screw.

REAR QUARTER PANEL WINDOW-SEDAN**Remove**

1. Remove the rear quarter window "C" trim moulding, with a flat thin screw driver or similar.
2. Remove the rear quarter window securing nuts.
3. Carefully remove the glass from the vehicle.



4. To ensure that no surface irregularities exist, thoroughly check rear quarter window pinchweld flange.

Install

1. Carefully position the glass into the vehicle.
2. Install the rear quarter window retaining nuts.
3. Replace the rear quarter window "C" trim moulding by aligning the trim and pushing it into position.

REAR QUARTER PANEL WINDOW-S'WAGON

Remove

1. Remove the rear quarter window "C" trim moulding with a flat thin screw driver or similar.
2. Remove the rear quarter window securing nuts.
3. Carefully remove the glass from the vehicle.
4. To ensure that no surface irregularities exist, thoroughly check rear quarter window opening flange.

Install

1. Carefully position the glass into the vehicle.
2. Install the rear quarter window retaining clips.
3. Replace the rear quarter window "C" trim moulding by aligning the trim and pushing it into position.

TAILGATE WINDOW-STATION WAGON

Remove

1. Remove tail gate window wiper arm and blade assembly.
2. Remove high mounted rear stop light and wiring connections.
3. Disconnect rear window defogger wiring.
4. Remove rear window internal moulding.
5. Remove window mouldings.
6. Carefully cut out the tailgate window.

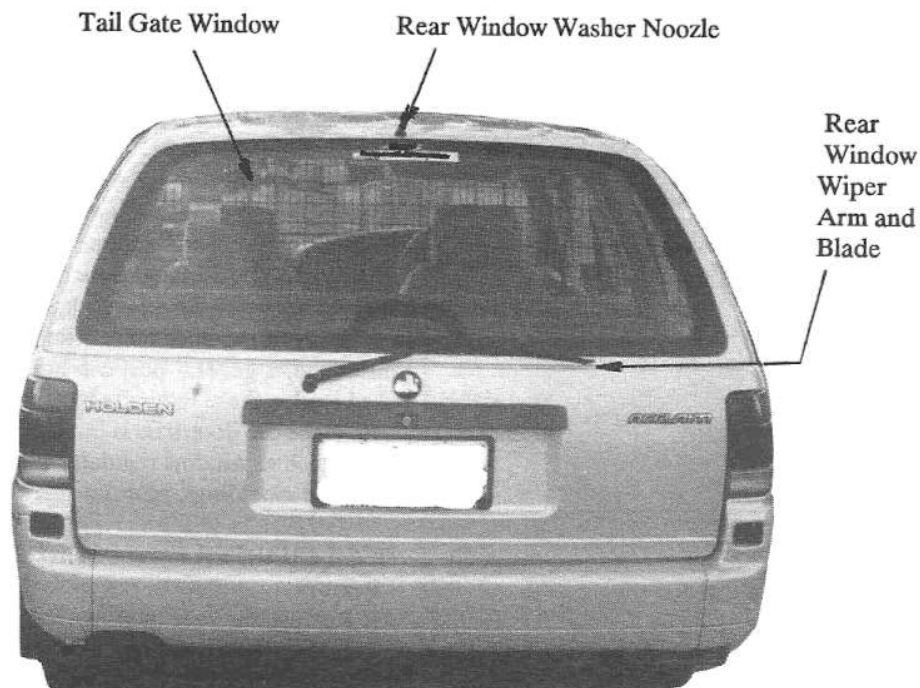
* It is not necessary to remove all traces of original urethane. However, any original urethane remaining must be smooth and firm.

Glass installation procedure

See "Windscreen Install" for installation procedure.

Install

Station Wagon



YR.**INTERIOR MIRROR****YS.** Draw a vertical line to the last line in the centre of the windscreen. Vertical Line

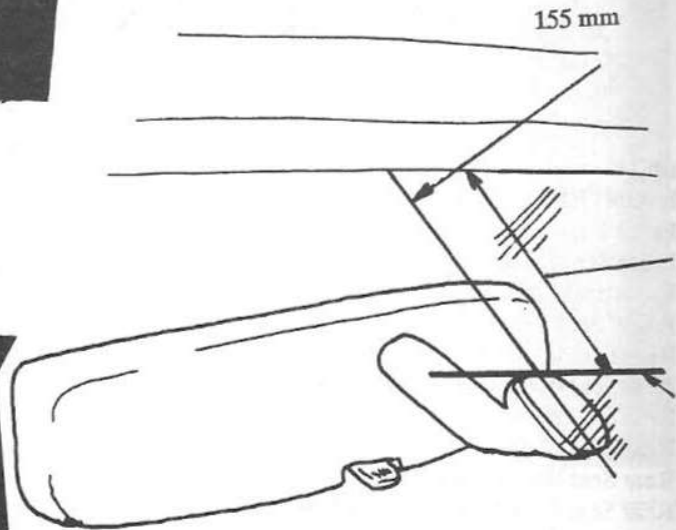
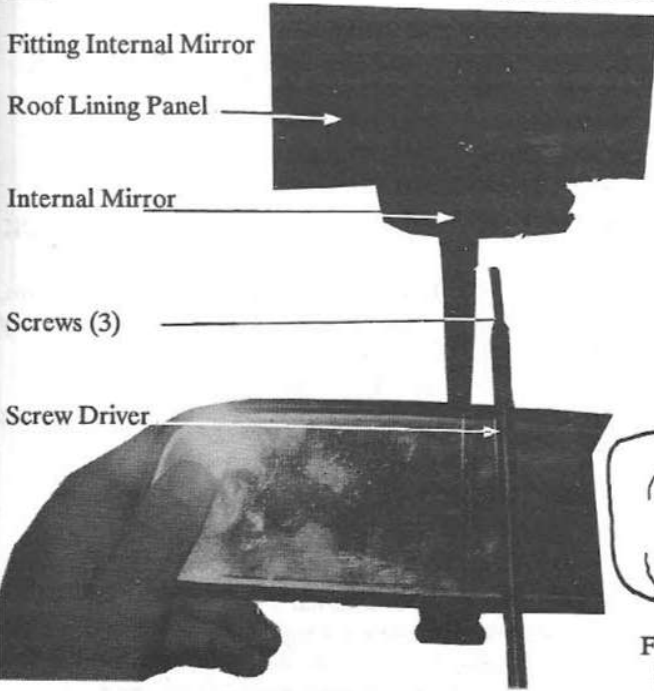
Fitting Internal Mirror

Roof Lining Panel

Internal Mirror

Screws (3)

Screw Driver



From the outside of the vehicle measure down 155 mm from the window sealer. Draw a horizontal removable ink line.

1. Replace tail gate window wiper arm and blade assembly.
2. Replace window mouldings.
3. Replace high mounted rear stoplight and wiring connections.
4. Install rear window internal moulding.
5. Connect rear window defogger wiring.
6. Connect battery ground cable.

Replace high mounted rear stop light and wiring connections

Globe

Stoplight Base

Screw

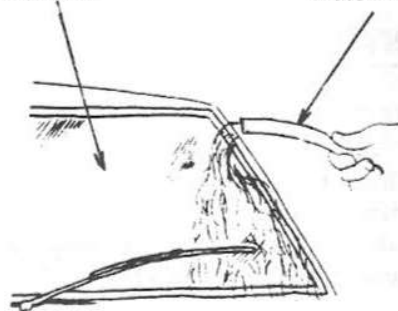
Stoplight Cover

Screw Driver



Windscreen

Water Hose

**WATER LEAK SEALING**

1. If any areas have gaps or the sealant is not visible. Apply extra sealant using a trowel or flat blade, or smooth existing sealant.
2. After the sealant has partly dried, $\frac{3}{4}$ to $1\frac{1}{2}$ hours depending on conditions. Test the glass perimeter for leaks with a low pressure water hose. If any leaks are found, apply extra sealant using a trowel or flat blade knife, or smooth existing sealant.
3. Clean off any excess urethane/silicon using commercial cleaning fluid or metholated spirits.

INTERIOR MIRROR**Remove**

1. Remove the 3 screws from the internal mirror base.
2. Remove the mirror.

Install

1. Install the mirror to the head lining position.
2. Replace and tighten the 3 screws attaching the mirror to the head lining and roof.

FRONT & REAR SEATS - SEAT BELTS

Subject	Page
MAINTENANCE	400
Front Bucket Seat Assembly	400
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Front Seat Forward & Back Adjust Track	400
Front Seat Recliner	400
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Maintenance

FRONT SEATS

Remove

1. Remove the bolts attaching the front end and rear end of the seat frame to floor.
2. Remove the seat taking care not to damage any of the internal upholstery or internal lining.

Install

1. Install the seat taking care not to damage any of the internal upholstery or internal lining.
2. Install the seat and frame, tightening the attaching bolts to specification.

Seat Anchor Bolts specified torque: 25-35 Nm.

FRONT SEAT HEAD SUPPORT

Front seat head supports are retained by spring steel clips located in sleeves which are secured to the seat frame, hidden under the seat upholstery.

Remove

1. Push down on the upholstery near the head rest supports.
2. Push the spring clips away from the head rest supports to release the head rest.
3. Remove the head support from the seat back by pulling up.

Install

Place the head restraint into position above the seat, and push the legs of the support down into the seat.

FRONT SEAT FORWARD & BACK ADJUST TRACK

Remove

1. Remove the front seat and frame as described above, taking care not to damage any of the internal upholstery or internal lining.

2. Remove the side plastic trim 3 screws.

3. Remove the 4 screws, 2 nuts securing the adjustment tracks to the seat frame.

Install

1. Replace the adjustment tracks, 4 screws and 2 nuts.

2. Replace the side plastic trim 3 screws.

3. Install the seat taking care not to damage any of the internal upholstery or internal lining.

4. Install the seat assembly, tightening the attaching bolts to specification.

Seat Anchor Bolts specified torque: 25-35 Nm.

FRONT SEAT RECLINER

Remove

1. Remove the front seat and frame as described above, taking care not to damage any of the internal upholstery or internal lining.

2. Remove the side plastic trim 3 screws.

3. Remove the 4 screws, 2 nuts securing the adjustment tracks to the seat frame.

3. Remove the seat recliner knob.

4. Remove the recliner assembly.

Install

1. Replace the recliner assembly.

2. Push the recliner control insert and handwheel back into place. Fit the back of the seat into place.

3. Replace the adjustment tracks, 4 screws and 2 nuts.

4. Replace the side plastic trim 3 screws.

5. Install the seat taking care not to damage any of the internal upholstery or internal lining.

6. Install the seat assembly, tightening the attaching bolts to specification.

Seat Anchor Bolts specified torque: 25-35 Nm.

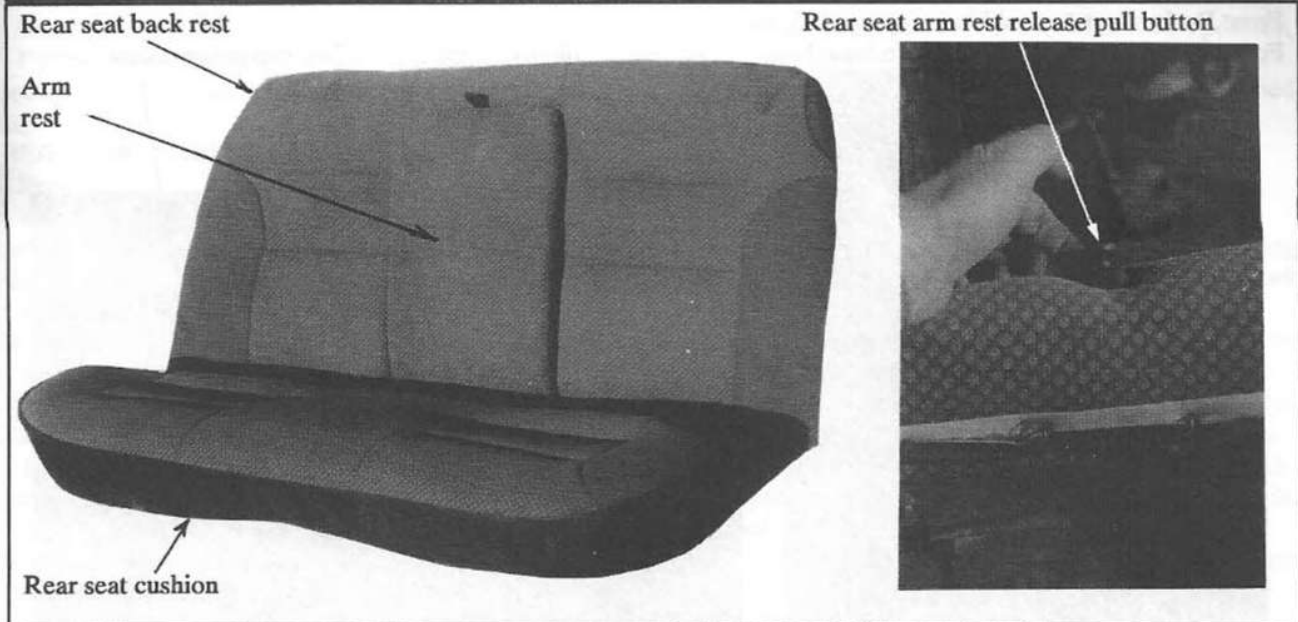
REAR SEAT CUSHION - Sedan

Remove

1. Use your knees in a sudden pushing down movement, push the front edge of seat cushion assembly rearwards to disengage seat frame from brackets attached to the floor as illustrated.

2. Remove the seat taking care not to damage any of the internal upholstery or internal lining.

Install



1. Replace the seat into the vehicle taking care not to damage any of the internal upholstery or internal lining.
2. Fit the cushion section into place with the back of the cushion in under the back section.
3. Push down hard on the front of the cushion and force back, this will clip the the seat frame under the seat bracket and force the cushion back further under the back section.

REAR SEAT BACK REST & FRAME - Sedan

Remove

1. Remove the cushion as described above.
2. Remove the 2 bolts attaching the back rest to the floor pan.
3. Lift the back rest frame from the hooks on the body panel near the parcel shelf.
4. Remove the seat taking care not to damage any of the internal upholstery or internal lining.

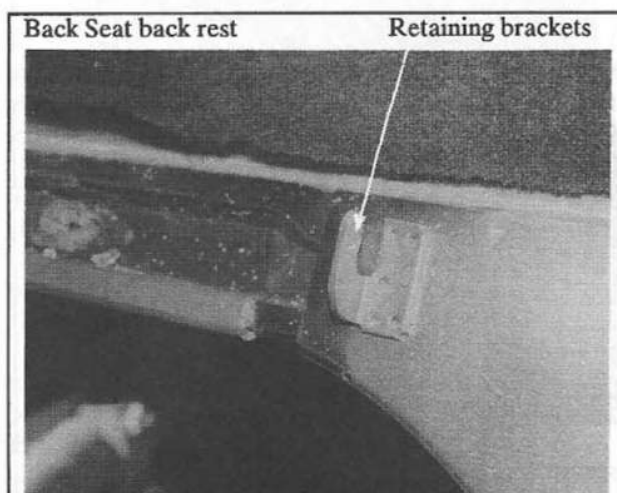
Install

1. Replace the seat into the vehicle taking care not to damage any of the internal upholstery or internal lining.
2. Fit seat frame to the retaining brackets attached to the rear compartment body panel near the parcel shelf.
3. Install two bolts securing the seat back frame to the rear floor pan.
4. Fit the cushion section into place with the back of the cushion in under the back section.
5. Push down hard on the front of the cushion and force back, this will clip the seat frame under the seat bracket and force the cushion back further under the back section.

REAR SEAT ARMREST

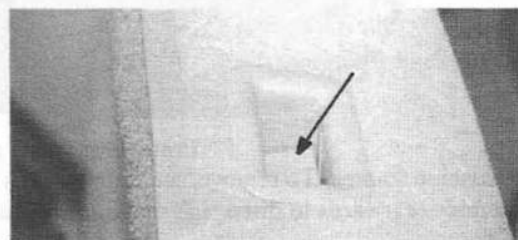
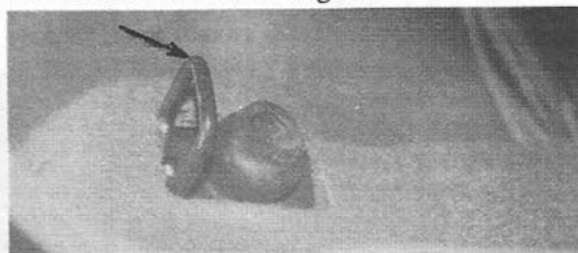
Remove

Fold down arm rest, remove 4 screws that attach the arm rest to the rear seat back frame, lift armrest out the rear back rest frame.



Remove two screws securing the seat back frame to the rear floor pan, lift frame from the retaining brackets attached to the rear compartment front panel

Rear seat catch for Station Wagon

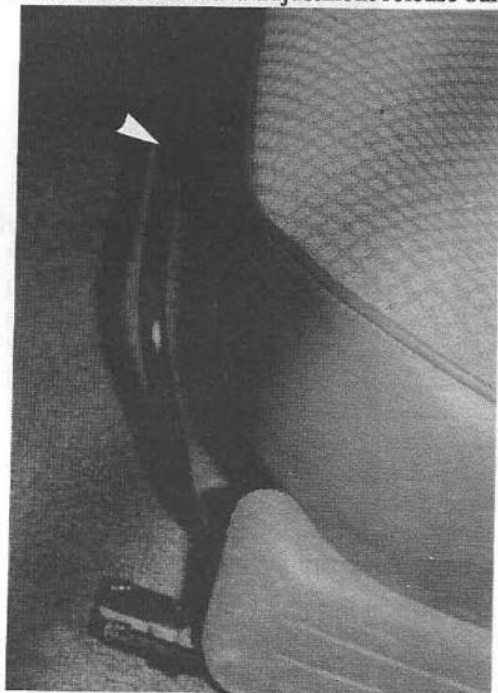


Rear Seat

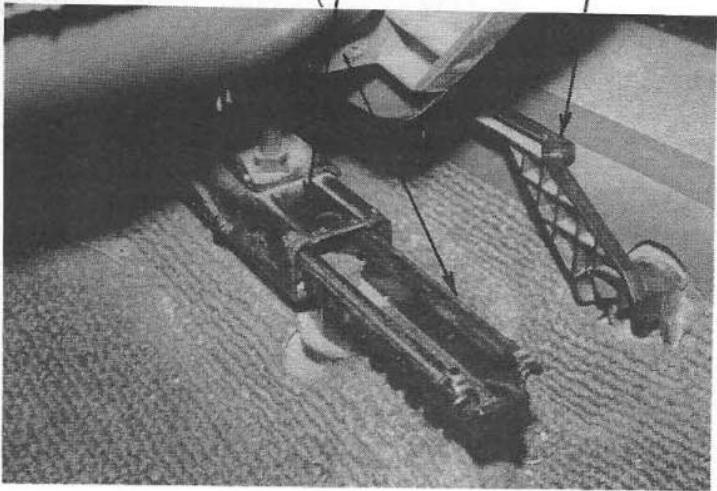
Catch release button

Catch striker

Front Bucket Seat Assembly
Forward and backward adjustment release bar.

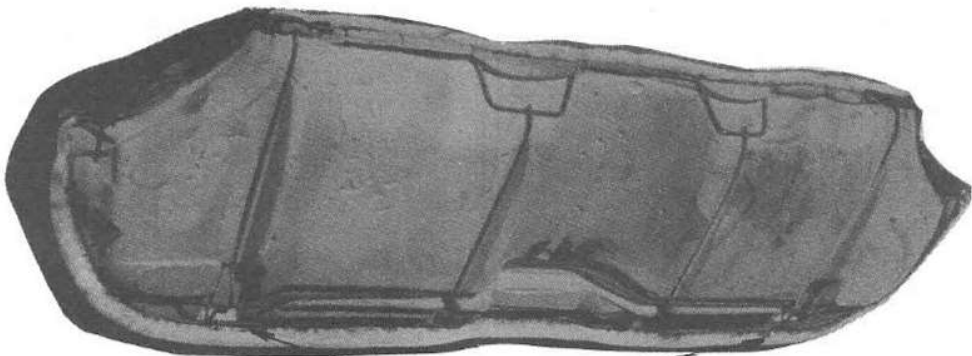
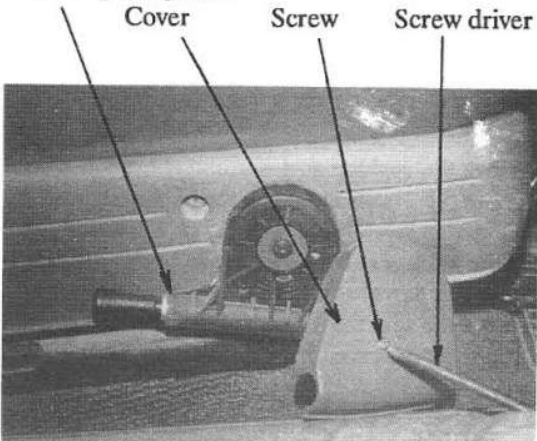


Adjuster track
Seat frame
Fuel cap cover release lever



Recliner adjuster.

Front seat track frame remove bolts to remove seat.
Seat height adjuster.



Frame lugs which attach seat to floor pan.

Rear seat cushion frame. - To remove, use your knees in a sudden pushing down movement, push the front edge of seat cushion assembly rearwards to disengage seat frame from brackets attached to the floor as illustrated.

Install

Fit armrest assembly to seat opening, replace 4 screws securing rear seat armrest to rear seat back rest frame.

REAR SEAT CUSHION & FRAME - Stationwagon**Remove**

1. Use your knees in a sudden pushing down movement, push the front edge of seat cushion assembly rearwards to disengage seat frame from brackets attached to the floor.
2. Remove the seat taking care not to damage any of the internal upholstery or internal lining.

Install

1. Replace the seat into the vehicle taking care not to damage any of the internal upholstery or internal lining.
2. Fit the cushion section into place with the back of the cushion in under the back section.
3. Push down hard on the front of the cushion and force back, this will clip the seat frame under the seat bracket and force the cushion back further under the back section.

REAR SEAT BACK REST & FRAME-Station Wagon**Remove**

1. Remove the cushion as described above.
2. Push in the locking buttons on top of the back rest to release the back rest from the top anchor points.
3. Remove the bolts attaching the back rest to the floor pan and bracket.
4. Remove the seat taking care not to damage any of the internal upholstery or internal lining.

Install

1. Replace the seat into the vehicle taking care not to damage any of the internal upholstery or internal lining.
2. Fit seat frame to the brackets on the floor pan install the attaching bolts.
3. Push the back rest back into position, press the locking buttons to lock the back rest into place if necessary.
4. Fit the cushion section into place with the back of the cushion in under the back section.
5. Push down hard on the front of the cushion and force back, this will clip the seat frame under the seat bracket and force the cushion back further under the back section.

REAR SEAT BACK LATCH - STATION WAGON**Remove**

1. Remove the seat back from the vehicle as previously described.
2. Pull back the seat back covering from seat frame.
3. Remove latch from either side of the seat back and the connecting rods from the lever to the latch/lock.
4. Remove the lever attaching nut and spring from the lever, remove lever.

Install

1. Position the latch into the seat frame, engage the rods and spring.

2. Work the back rest cover and foam back into position, glue if necessary.
3. Replace the back rest into the vehicle as described above.

FRONT SEAT BELT AND BUCKLE**Remove**

1. Remove the plastic bolt cover from the bolt securing the seat belt to centre pillar, remove the bolt and belt upper support.
2. Remove seat belt buckle and support belt or cable, by removing the attaching bolt to the floor pan.
3. Remove the plastic centre pillar lower trim. Remove pillar trim retainers, carefully remove centre pillar trim.
4. Remove the seat belt retractor by removing the attaching bolt to the centre pillar. Remove the retractor and belt.

Install

1. Install bolt securing front seat belt retractor to centre pillar.

Seat Belt Attaching Bolts torque 35-70Nm

2. Replace centre pillar trim. Replace sections of front and rear door windlacing and seal adjacent to centre pillar lower trim. Replace pillar trim retainers.
3. Replace bolt and seat belt anchor attachment. Replace cover to bolt securing seat belt lower attachment to floor.

Seat belt attaching bolts torque 35-70Nm

4. Replace sash guide cover to bolt securing upper seat belt attachment to centre pillar.

REAR SEAT BELT AND BUCKLE**Remove**

1. Remove rear seat cushion and back rest as described above.
2. Remove the plastic bolt cover from the bolt securing the seat belt to the upper anchor point, remove the bolt and belt upper support.
3. Remove bolt securing rear seat belt buckle and belt to the floor pan of the vehicle.
4. Remove the seat belt retractor assembly from the quarter panel, remove the retractor bolt. Remove the belt and retractor from the vehicle.

Install

1. Replace bolts securing rear seat belt lower attachments to floor pan. Replace the bolt securing rear seat belt retractor assembly to quarter inner panel.

Seat Belt Attaching Bolts torque 35-70Nm

2. Replace sash guide cover to bolt securing upper seat belt attachment to rear pillar and upper attachment.

Seat Belt Attaching Bolts torque 35-70Nm

3. Replace rear seat cushion and back assemblies as described above.

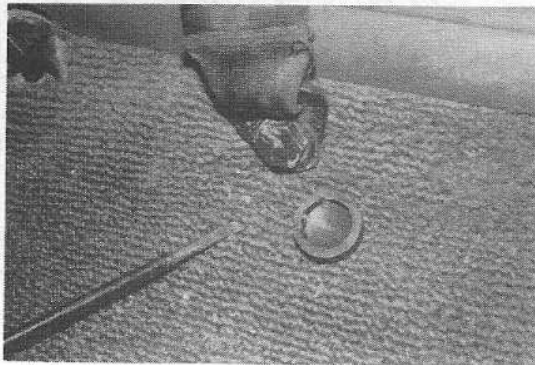
SEAT BELTS ANCHOR POINTS

Front seat belt anchor point below centre pillar

Front seat belt anchor point behind seat on transmission tunnel

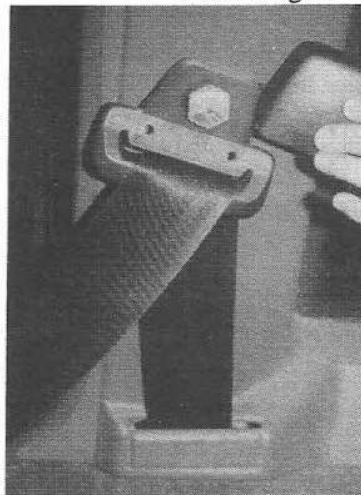
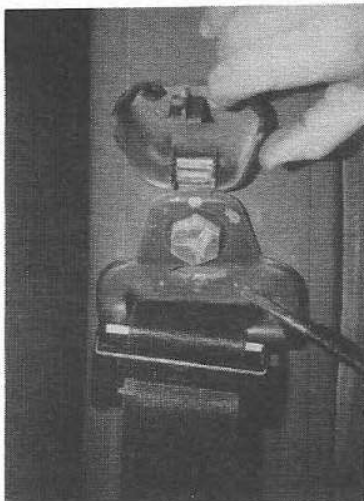
Bolt located under cap prise off with screw driver

Bolt located under cap prise off with screw driver



Front seat belt showing top anchor point on centre pillar

Rear seat belt showing top anchor point for back seat of station wagon



Rear seat belt showing top anchor point

Sedan rear seat anchor point in front of wheel arch

Belt retracts into retractor located behind moulding

**Seat belt Attaching Bolts torque****35-70Nm**

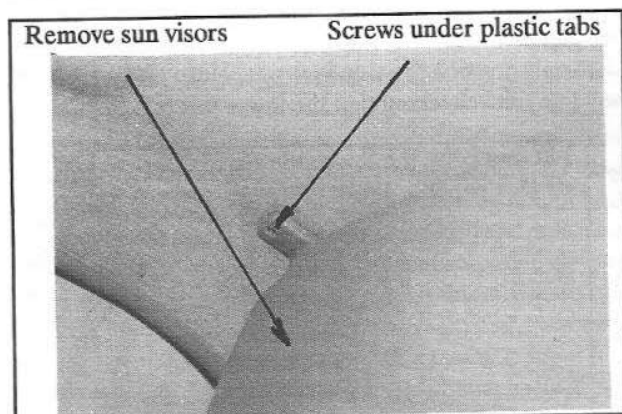
INTERIOR TRIM

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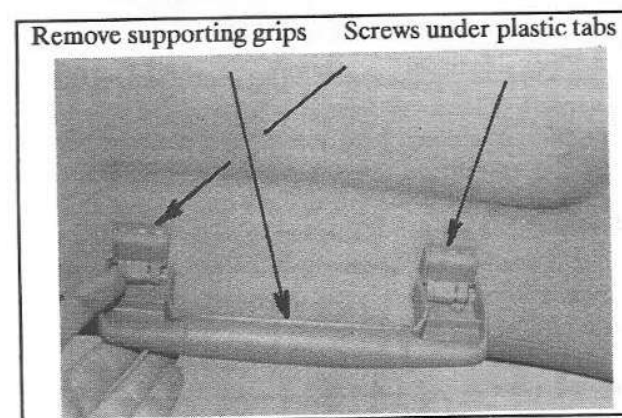
HEADLINING TRIM

Remove

1. Remove the centre pillar moulding.
2. Remove the top seat belt runner anchor points.
3. Remove the sun visors, internal mirror and supporting grips attached to the roof.



4. Remove the internal roof light, so that the wiring is free of the light base etc.



Remove the internal roof light



Light cover Globe Screws (4)

5. Prise the roof moulding from the roof, take care as the moulding could easily break.

6. Adjust the seats so that both front seat backs are in the reclined position.

7. Remove the roof moulding from the vehicle, take care as the moulding could easily break. Sedans may need the passenger front door removed. Station Wagons ease the roof lining out the back of the vehicle

Install

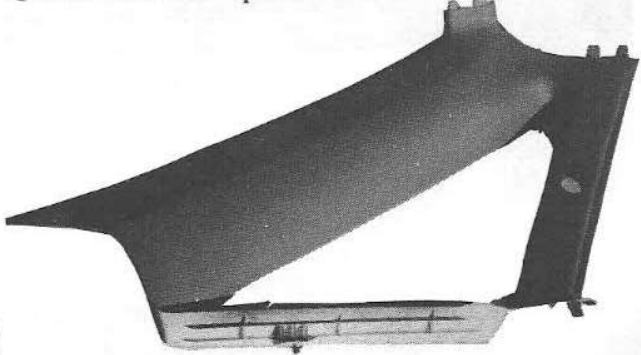
1. Place the headlining in the vehicle, take care as the moulding could easily break.
2. Work the head lining back into the correct position.
3. Install the internal roof light
4. Replace the sun visors, internal mirror and supporting grips attached to the roof.
5. Replace the top seat belt runner anchor points.
6. Install the centre pillar moulding.

QUARTER WINDOW TRIM PANEL - Sedan

Remove

1. Remove top seat belt runner anchor bolt and remove seat belt anchor.

Quarter window trim panel



2. Remove the rear seat cushion and back rest.
3. Remove the section of the door seal adjacent to the leading edge of the quarter window interior panel.
4. Use a steel ruler or similar between the quarter panel and interior panel, carefully prise the interior panel away from the quarter panel.

Install

1. Carefully fit the trim panel to the quarter panel, with trim fasteners.
2. Replace the rear seat cushion and back assemblies as previously described.
3. Replace the top seat belt runner and bolt.

Seat belt Attaching Bolts torque **35-70Nm**

REAR PARCEL SHELF**Remove**

1. Use your knees in a sudden pushing down movement, push the front edge of seat cushion assembly rearwards to disengage seat frame from brackets attached to the floor. Remove the seat from the vehicle.

2. Remove the 2 bolts attaching the back rest to the floor pan.

3. Lift the back rest frame from the hooks on the body panel near the parcel shelf.

4. Remove the seat taking care not to damage any of the internal upholstery or internal lining.

5. Remove the parcel shelf, by forcing up the attaching fasteners from inside the boot.

Install

1. Replace the parcel shelf trim to the body panel, install the fasteners.

2. Replace the seat into the vehicle taking care not to damage any of the internal upholstery or internal lining.

3. Fit seat frame to the retaining brackets attached to the rear compartment body panel near the parcel shelf.

4. Install two bolts securing the seat back frame to the rear floor pan.

5. Fit the cushion section into place with the back of the cushion in under the back section.

5. Push down hard on the front of the cushion and force back, this will clip the the seat frame under the seat bracket and force the cushion back further under the back section.

FRONT SIDE KICK PANELS

* The right side kick panel must be manoeuvred around the bonnet release lever.

Remove

1. Lift and prise the floor side panel insert out of the side kick panel.

2. Move the base of the side kick panel to the centre of the vehicle.

3. Remove the small screw at the top back corner. Manoeuvre the kick panel away from the lower dash trim, at the top while releasing the kick panel from the trim.

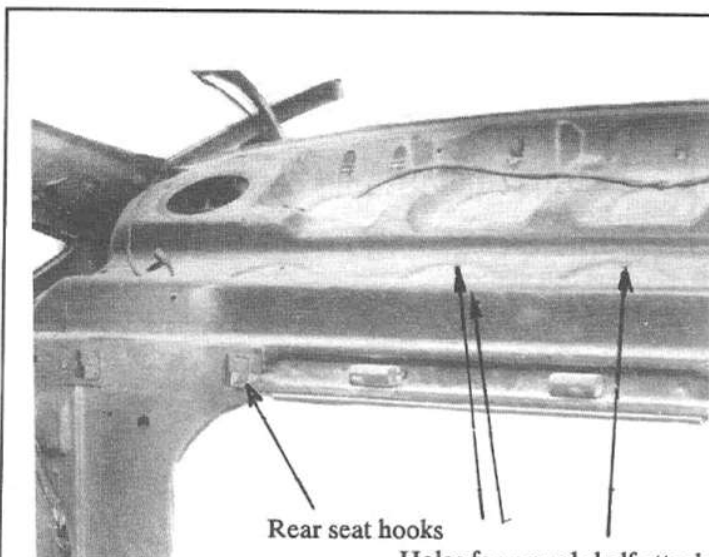
Install

1. Position the side kick panel into place.

2. Install the screw into the upper back corner of the side panel, while positioning the upper section of the side kick panel into place.

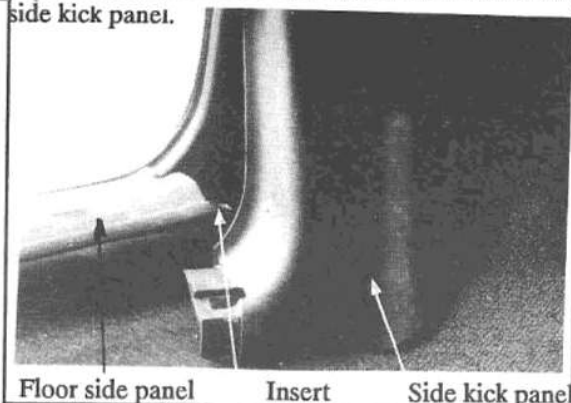
3. Position the lower section of the side kick panel into place, push in the insert of the floor side panel into the kick panel.

4. Firmly position the side kick panel into place, while at the same time checking that the lower insert is in place.



Remove the parcel shelf, by forcing up the attaching fasteners from inside the boot.

Lift and prise the floor side panel insert out of the side kick panel.



Floor side panel

Insert

Side kick panel

PAINT & EXTERIOR BADGES

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Trim and Mouldings	408

BODY MAINTENANCE

EXTERNAL PAINT

Acrylic Enamel Paints

This range of paints have a harder surface, and hold a higher gloss surface for metallic colours than the ordinary enamels, provided the paint surface is maintained. This enamel also has the property of good smoothness.

Below are repair guide lines for acrylic enamel paints:

Polishing Paint:

Minor paint runs, scratches, dry over spray and orange peel can be eradicated by machine or hand polishing or by both sanding and polishing without the necessity of repainting. If repairing this type of defect treat the entire panel as, spot repairs will leave a blemish appearance and should be attempted only in areas that do not have large areas of paint. When polishing follow the guide lines below.

Lightly sanding using 1200 wet and dry paper with water or mineral spirits as a lubricant removing the defect. Using a brush apply medium grit machine polishing compound to the painted surface. Use a polisher or drill and polishing wheel and woollen pad, polish the entire panel, do not hold the polisher in the one position as this will leave cut marks in the paint surface. Change woollen pad, then with a clean lambs wool pad buff the entire panel.

Acrylic enamel paints need a light polishing to improve their gloss, as age and weathering can remove the lustre from the paint surface.

Painting Panels:

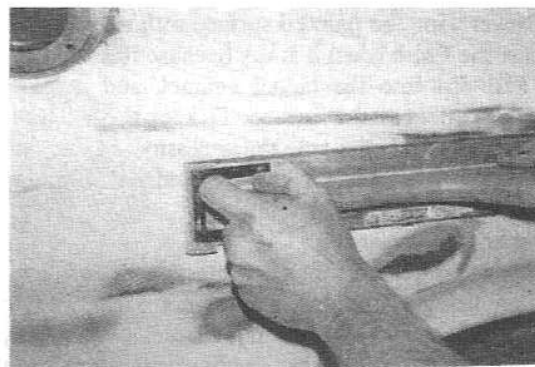
Painting with either conventional air drying or low bake enamels, or with acrylic lacquers acrylic enamels can be used to repair damage to panels. Often a better colour match can be obtained by repainting metallic colours with acrylic lacquer, both the original paint surface and the repaired surface can be polished at the same time to provide a good surface. Air dry acrylic lacquer will provide better servability than air dry enamels.

Remove wax, polish or grease with a silicone remover when using any one of the three types of repair materials over acrylic enamel. Using No. 800 grit paper thoroughly sand off the original finish. If trims and mouldings are not removed, care should be taken to ensure that paint sur-

faces near trim and mouldings, are thoroughly sanded in order to provide adhesion of the repair top coat. Areas sanded to the base metal should be treated with an acid cleaner to give a good surface.

If panels have been damaged, the paint should be removed, the damaged section panel beaten to the correct shape. Body filler and putty are applied, then the repaired

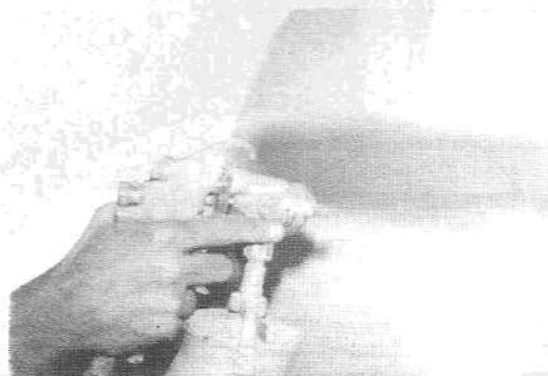
Body filler and putty are applied, then the repaired section sanded back with coarse paper such as No 120 grit paper to start with. Damaged panel. Sander



section sanded back with coarse paper such as No 120 grit paper to start with. Then use No 360 or 420 grit paper before moving to No 600 grit paper to obtain a good finish.

After sanding, apply a primer to any bare metal that has been exposed. Sand the primer surfaces with No. 800 wet and dry paper with water before applying paint. The lacquer or enamel used should be thinned with thinners as recommended by the supplier of the paint.

Spray Painting. Spray the paint at an even distance from the panel of 18cm to 25cm, over lap each coat slightly to obtain an even finish.



CLEANING

Regular maintenance throughout the life of a car, is recommended to help the appearance of the paint surface and the general appearance of the vehicle. The following steps are suggested as a guide for regular body maintenance:

1. Wash the car, chamois dry exterior and vacuum the interior thoroughly.
2. Inspect openings for water leaks and seal where necessary. Repair all loose weatherstrips which are still useable.
3. Replace any door or boot lid weatherstrips which are unfit for service. Apply silicone lubricant to the weatherstripping.
4. Replace all cracked, fogged, or chipped glass, the effectiveness of the lights and windows will be impaired.
5. Inspect the windshield wiper blades and replace them if necessary.
6. Clean the seats, door trim panels and headlining.

Exterior Cleaning

The outside of the vehicle should be kept clean by washing. Never wipe the painted surface with a dry cloth. Do not dust the finish when it is dry because this will rub the dust and dirt into the baked enamel, and it leaves a sandpaper effect on the surface. To keep the finish bright and attractive and eliminate the necessity of using polish, wash the car whenever it has accumulated a moderate amount of dirt and road grime.

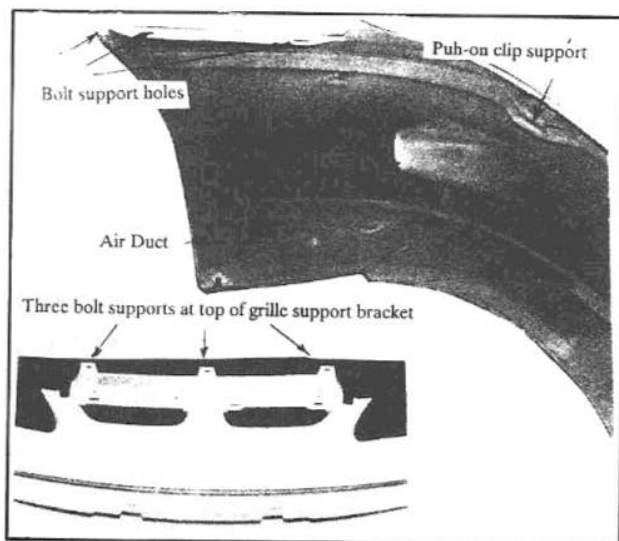
Bumper Maintenance

Bumper maintenance for unpainted bumpers is regular washing, using water and a mild detergent, wash the bumper. Rinse and allow to dry. No abrasives should be used on the bumper surface. Apply a commercial type of protectant such as Armor Oil. To maintain original appearance, weekly washing and monthly applications of Armor Oil could be used to the Polypropylene/EDPM plastic material.

Painted bumpers should be repaired and repainted with Holdens approved materials, these are

Dulux Plastpak Universal Anti Static Cleaner 920-39237

Dulux Plastpak Universal Primer 499-38571



Dulux Plastpak Flexible Additive for Two Component Products 499-35484

Dulux basecoat - Metallic Colour 354 Line

Dulux basecoat - Thinner 920-34926

Dulux 2K Clearcoat 455-30900

Dulux 2K Acrylic Enamel Solid Colour 416 Line

Dulux 2K MS Hardener Normal 980-35239

Dulux 2K Reducer Fast 920-19148

Standard Paint

Add Flexible Additive then Hardener and Reducer in the following ratios to the prepared colour:

426 line colour - 5 parts by volume

Flexible Additive 499-35848 - 1 part by volume

2K MS Hardener 980-35239 - 3 parts by volume

2K Reducer 920-19148 - 10-20 by volume

Use a 1.4 - 1.8mm fluid nozzle on a regular air spray gun.

Optional Metallic Paint

Thin the prepared basecoat colour with 40 basecoat Thinner, 920-34926. Mix and strain the solution, use a 1.4 - 1.8mm fluid nozzle on a regular air spray gun, apply one good medium, even coat.

Prepare the clearcoat with Flexible Additive then Hardener and Reducer as recommended by Holden's.

- 2k Clearcoat 455-30900 - 5 parts by volume

- Flexible Additive 499-35484 - 1 part by volume

- 2K MS Hardener 980 - 35239 - 3 parts by volume

- 2K Reducer 920-19148 - 20 by volume

Using a 1.4 - 1.8mm fluid nozzle spray gun set-up.

Trim and Mouldings

Trim mouldings and name badges are held into place by clips, fasteners, retainers, bushes, nuts and contact adhesive. When removing or installing exterior mouldings, care should be exercised. Finishes adjacent to the moulding should be covered with masking tape to prevent damage. Holes in body panels for screws, bolts, clips, etc; that could permit water entry into the body must be adequately sealed with non hardening sealer or presealed screws, nuts or clips.

The body side mouldings are secured to the front fender and front and rear doors with double sided adhesive tape and urethane adhesive.

If replacing moulding clips drill a small hole in the panel next to the original weld stud location. Insert a self-sealing screw through original clip and into outer panel, or replace damaged weld stud with self-sealing screw-type weld stud.

Bonded adhesive nameplates and emblems are more easily removed with the use of heat lamps positioned adjacent to the part to be removed.

* Ensure that the heat lamps are not too close or the heat too intense to adversely effect paint finish.

When installing these adhesive bonded trims and mouldings to the panel, thoroughly clean the panel and ensure the panel temperature is at least 21 degrees Celsius otherwise the bonding may not be satisfactory.

BODY

Page 409

SEDAN

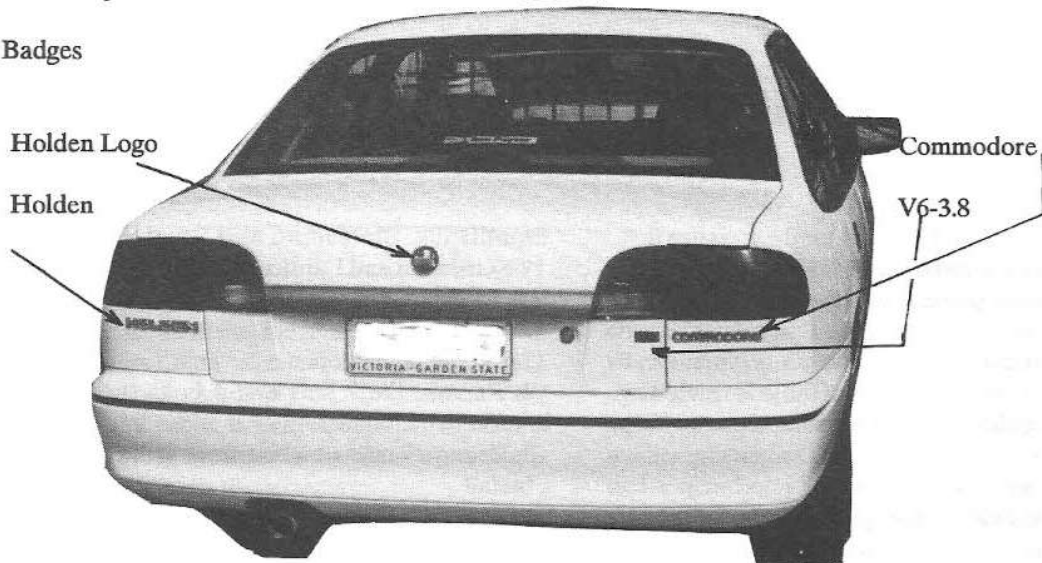
Boot Badges

Holden Logo

Holden

Commodore

V6-3.8



STATION WAGON

Rear badges on tailgate of Station Wagon

Holden Logo

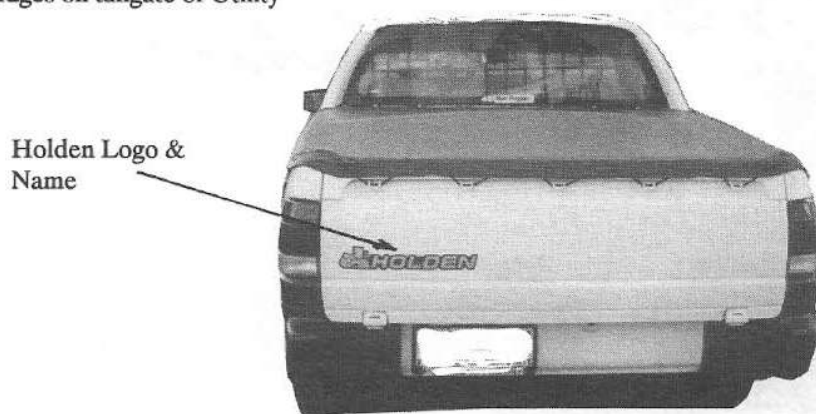
Holden

Acclaim



UTILITY

Rear badges on tailgate of Utility

Holden Logo &
Name

FRONT GRILLE

Front Grille VR & VS

* Executive, Berlina, Calais & Utility models have the grille mouldings incorporated into the bumper assembly

Remove

1. Lift the bonnet open.
2. Remove the 2 small bolts at top of the grille moulding.
3. Lift two piece grille trim away from bumper moulding.

Install

1. Position the grille insert or inserts into bumper bar between the head lights, push grille inserts firmly into place.
2. Replace the two small bolts at the top of the grille insert.
3. Close the bonnet.

Front Grille Statesman and Captice

* Statesman and Captice models have the grille mouldings incorporated onto the bonnet assembly

Remove

1. Lift the bonnet open.
2. Remove the 2 nuts and 4 bolts securing the grille bracket to the bonnet.
3. Remove 7 nuts attaching front grille to grille bracket.

Install

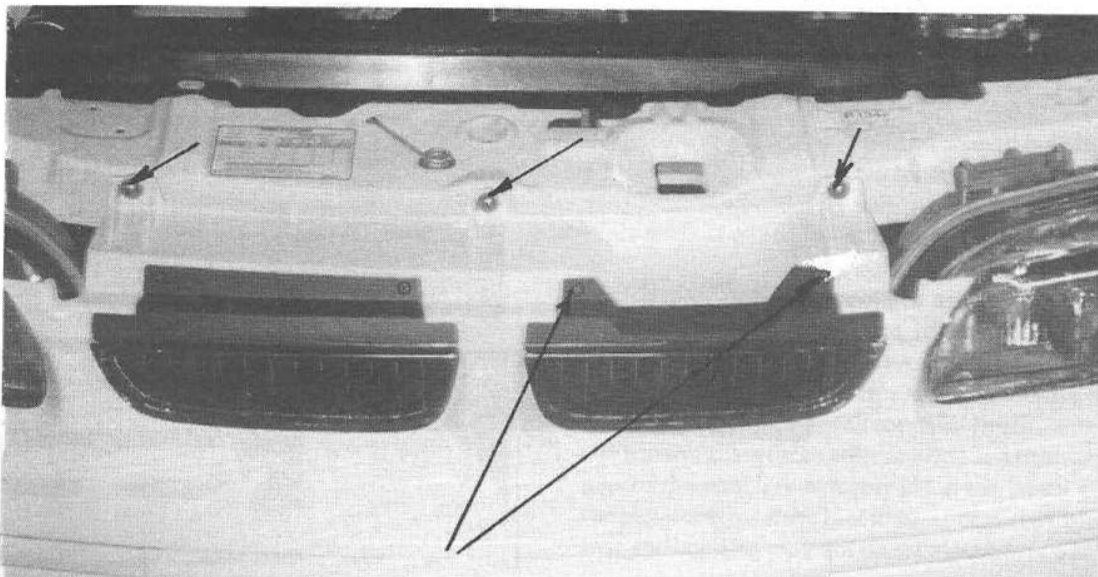
1. Install the front grille to the grille bracket, install and tighten the 7 nuts.
2. Install the grille bracket to the bonnet install and tighten 2 nuts and 4 bolts securing the grille bracket to the bonnet.
3. Close the bonnet and check for clearance of grille.

Front Grille

The front grille inserts and moulding become part of the front bumper.



The grille moulding is combined with the front bumper moulding, supported by 3 screws



Two grille inserts, each insert held by two self taper screws.

FRONT FENDERS & BONNET

Subject	Page
Front Fender	411
Bonnet	411
Bonnet Locking Centralising Pin	412
Bonnet Secondary Catch	412
Bonnet Release Cable Assembly	412

The floor pan and cabin, is welded together to make a very strong structure, therefore front and back panels are either bolted or welded to this structure.

Panels that are attached to the front consist of engine bonnet, front fender and front end panel, into which, headlights are fitted. The engine bonnet assembly is hinged from the fire wall and is supported in open position by two gas operated struts.

The bonnet lock release lever, mounted beneath the right hand side of the instrument panel, controls the bonnet lock release spring. The engine bonnet, when released from the locked position, engages a secondary safety catch which can be released by inserting fingers beneath the leading edge of the engine bonnet.

FRONT FENDER

Remove

1. Remove the screws and plastic split screws attaching the front fender liner, remove the liner.
2. Remove the radio antenna if one is fitted.

3. Remove the front bumper bar assembly.

4. The front fenders are attached by self tapper bolts to the fire wall panel, engine compartment panel and front chassis assembly. Take care not to damage the fender when removing. Do not let the fender drop and damage.

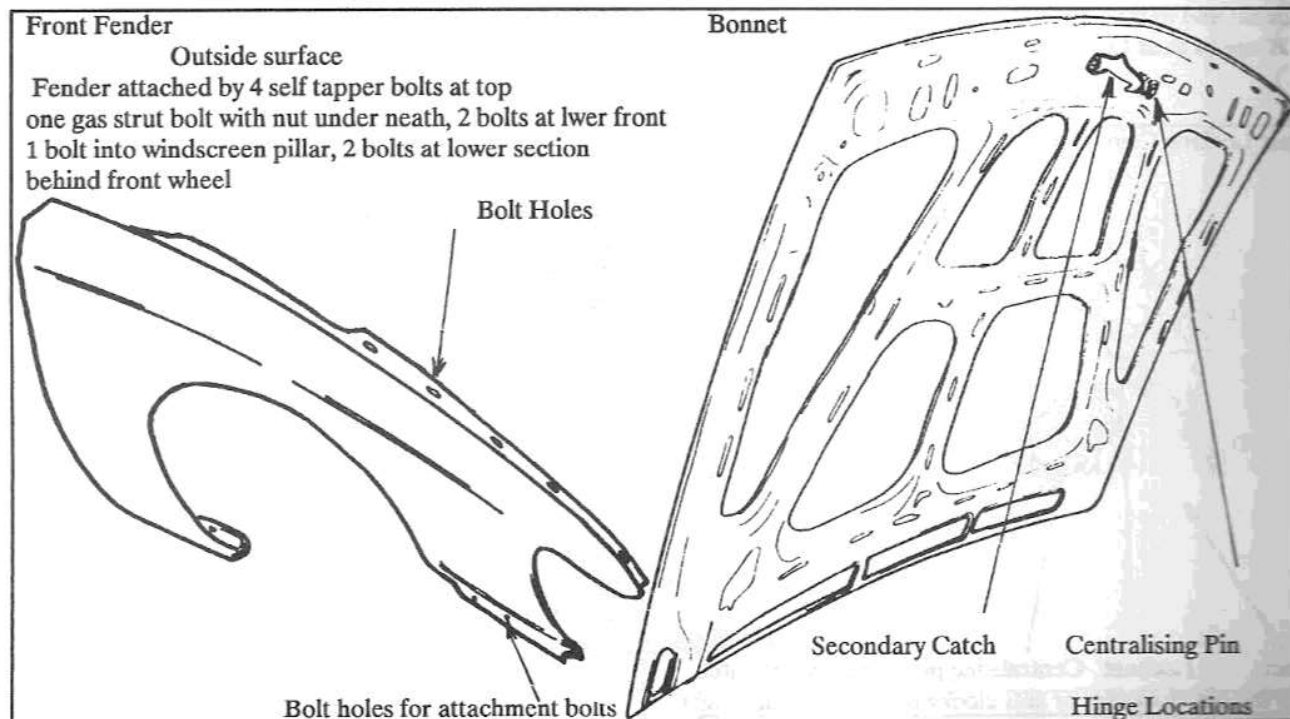
Installation

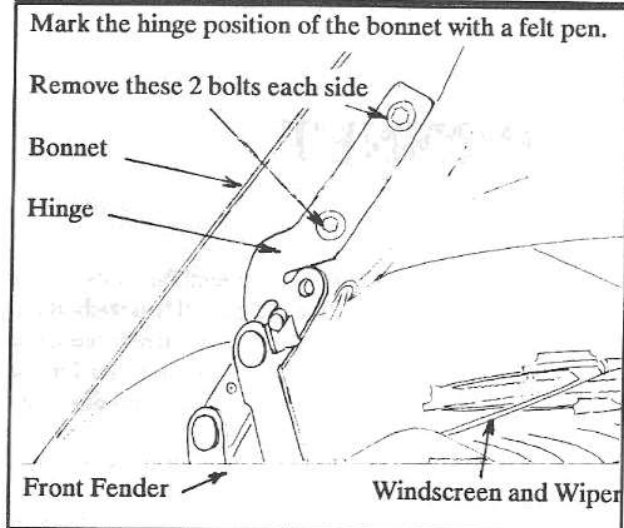
1. Place the front fender into position insert the bolt and washer assemblies to secure the lower and upper part of the fender then the rear section of the fender. Do not tighten the screws until the fender has been aligned so that it fits into the correct position with the other body panels.
2. Install the front bumper bar assembly.
3. Replace the radio antenna if one is fitted.
4. Replace the front fender liner.

Bonnet

Remove

1. Lift the bonnet open. For reference when refitting the hinge, mark the hinge position with a felt pen.
2. Place a cover on the front fenders to prevent damage.
3. Disconnect windshield washer tube.
4. Have an assistant to hold bonnet, remove gas struts.
5. Remove the bolts attaching the hinges to the bonnet.
6. Remove the bonnet.
7. If necessary remove hinge from body by removing attaching bolts.



**Install**

1. Replace the hinge. Replace the hinge attaching bolts and tighten to specification.

Hinge to Body attaching bolts specified torque: 15-20Nm

2. Install the bonnet to the hinge, taking note of the felt marks made during removal. Install bolts to specification.

Hinge to Boot Lid bolts specified torque: 15-20Nm

3. Reconnect the hose to the windscreen washer.

4. Take the bonnet safety prop and the protection cover off. Close the bonnet and check alignment. After any necessary adjustments tighten the hinge attaching nuts.

Adjust

1. Loosen slightly the hinge to bonnet bolts, gently close the bonnet and check the surrounding edges of the bonnet.

2. There should be an even gap on all sides of the bonnet.

3. If not raise bonnet and firmly but carefully move the bonnet on the hinges, correct the position of the bonnet.

4. Lower bonnet, check clearance gaps, if correct lift bonnet and tighten the bolts to specification.

Hinge to Boot Lid bolts specified torque: 15-20Nm

Bonnet Release Cable Assembly**Remove**

1. Pull the bonnet release lever, release the bonnet onto the second catch.

2. Remove the right lower dash panel as described in the instrument panel section.

3. Disconnect the cable, bracket and lever assembly.

4. Lift and prop the bonnet open.

5. Remove the radiator grille.

6. Push the bonnet catch back and disengage the cable.

7. Remove the clip bolt and plastic straps securing cable to the front panels.

8. Inside the vehicle pull the outer and inner cable into the vehicle.

Install

1. Feed the outer and inner cable through the fire wall from the inside the vehicle into the engine compartment.

2. Inside the vehicle, connect the cable to the release lever and lever assembly.

3. Install the right lower dash panel.

4. At the front of the vehicle, fit the cable to the securing clip and fit new plastic straps, securing the cable to the front end panel assembly.

5. Push the hood catch back and install the cable end fitting.

6. Install the radiator grille.

7. Check the operation of the bonnet catch before closing the bonnet.

Bonnet Locking Centralising Pin**Remove, Adjust or Install**

1. Prop the bonnet open.

2. Loosen the lock nut at the base of the centralising pin (the pin can be screwed out and removed at this stage).

3. If installing a new pin, screw the pin approx 1/4 of the length of the pin, tighten the locknut.

4. Apply a thin coat of grease onto the centre of the end section of the pin, lower centralising pin on to the catch, lift the bonnet and check the catch for location of grease.

5. Loosen the centralising pin lock nut adjust the pin to the correct location, tighten locknut.

6. Repeat steps 4 & 5 until the pin is centralised.

7. Close bonnet fully and check for operation of catch.

8. Check for bonnet height, loosen the centralising pin locknut, screw the pin clockwise or anti-clockwise to adjust the height of the front of the bonnet.

Bonnet Secondary Catch**Remove**

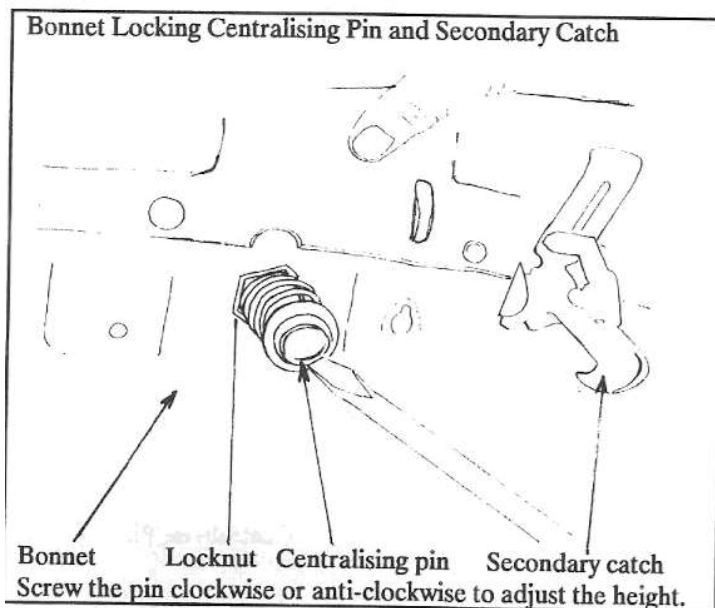
1. Remove the retaining pin supporting the catch and spring.

2. Remove the catch taking care not to loose the spring.

Install

1. Replace the spring and catch in the correct position.

2. Install the retaining pin.



BUMPER BARS

Subject	Page
Bumper Maintenance	413
Front Bumper Bar	414
Rear Bumper Bar - Sedan	414
Rear Bumper Bar - Stationwagon	414
Rear Bumper Utility and Van	414

Repairs and Maintenance

Bumper Maintenance

Bumper maintenance for unpainted bumpers is regular washing, using water and a mild detergent, wash the bumper. Rinse and allow to dry. No abrasives should be used to the bumper surface. Apply a commercial type of protectant such as Armor Oil.

Painted bumpers should repaired and repainted with Holdens approved materials, these are

Dulux Plastpak Universal Anti Static Cleaner 920-39237

Dulux Plastpak Universal Primer 499-38571

Dulux Plastpak Flexible Additive for Two Component Products 499-35484

Dulux basecoat - Metallic Colour 354 Line

Dulux basecoat - Thinner 920-34926

Dulux 2K Clearcoat 455-30900

Dulux 2K Acrylic Enamel Solid Colour 416 Line

Dulux 2K MS Hardener Normal 980-35239

Dulux 2K Reducer Fast 920-19148

Standard Paint

Add Flexible Additive then Hardener and Reducer in the following ratios to the prepared colour:

426 line colour - 5 parts by volume

Flexible Additive 499-35848 - 1 part by volume

2K MS Hardener 980-35239 - 3 parts by volume

2K Reducer 920-19148 - 10%-20% by volume

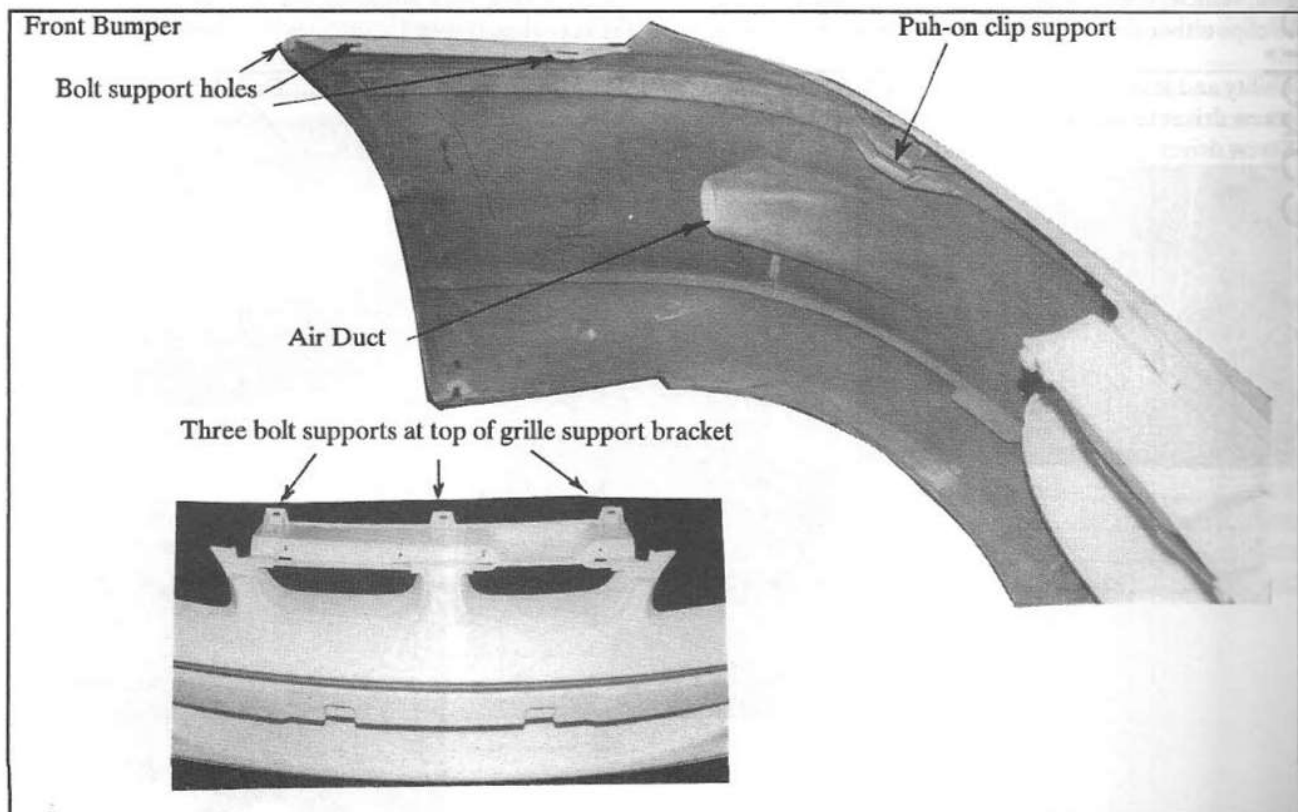
Use a 1.4 - 1.8mm fluid nozzle on a regular air spray gun.

Optional Metallic Paint

Thin the prepared basecoat colour with 40 basecoat Thinner, 920-34926. Mix and strain the solution, use a 1.4 - 1.8mm fluid nozzle on a regular air spray gun, apply one good medium, even coat.

Prepare the clearcoat with Flexible Additive then Hardener and Reducer as recommended by Holden's.

- 2K Clearcoat 455-30900 - 5 parts by volume



- Flexible Additive 499-35484 - 1 part by volume
 - 2K MS Hardener 980 - 35239 - 3 parts by volume
 - 2K Reducer 920-19148 - 20% by volume
- Using a 1.4-1.8mm fluid nozzle spray gun set-up.

FRONT BUMPER BAR

Remove

1. Remove the bolts attaching the bumper support bars to the front chassis rail, it may be necessary to use an assistant to hold the bumper bar.
2. Remove the front bumper bar assembly.

Install

1. Position the front bumper bar assembly onto the front of the vehicle, it may be necessary to use an assistant to hold the bumper bar.
2. Install the bolts attaching the bumper support bars to the front chassis rail.

REAR BUMPER BAR - Sedan

Remove

1. Remove the number plate light from the rear bumper bar with a screw driver. Remove electrical connectors.
2. Remove the bolts attaching the bumper to the body section under boot, screws at wheel arches and near boot opening, it will be necessary to use an assistant to hold the bumper bar.
3. Pull bumper assembly clips off bracket either side near wheel arch. Remove the bumper bar assembly.

Install

1. Position the rear bumper bar assembly onto the rear of the vehicle, it will be necessary to use an assistant. Push the clips either side onto clip bracket firmly.

2. Install bolts attaching bumper under the rear of boot. Install the screws at wheel arch (2) and near boot opening.
3. Replace the number plate light to the rear bumper bar, push fit. Replace the electrical connectors.

REAR BUMPER BAR - Station Wagon

Remove

1. Pry the reflectors away from the bumper to gain access to the bumper attaching bolt.
2. Remove the bolts attaching the bumper support bars to the rear chassis panels.
3. Remove the rear bumper bar assembly.

Install

1. Position the rear bumper bar assembly onto the rear of the vehicle, it may be necessary to use an assistant to hold the bumper bar.
2. Install the bolts attaching the bumper support bars to the rear chassis panel.
3. Replace the reflectors into the bumper moulding.

REAR BUMPER - Utility and Van

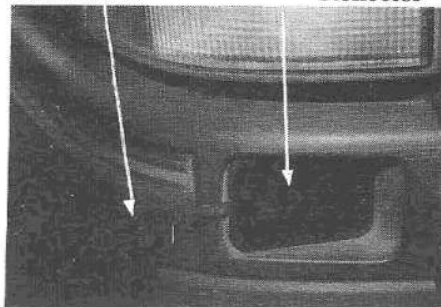
Remove

1. Pry the reflectors away from the bumper to gain access to the bumper attaching bolt.
2. Remove the bolts attaching the bumper support bars to the rear chassis panels.
3. Remove the rear bumper bar assembly.

Install

1. Position the rear bumper bar assembly onto the rear of the vehicle.
2. Install the bolts attaching the bumper support bars to the rear chassis panel.

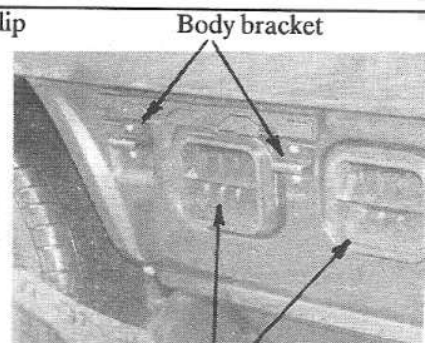
Utility and station wagons prise the reflector out with a screw driver to gain access to bumper bracket bolt.



Reflector

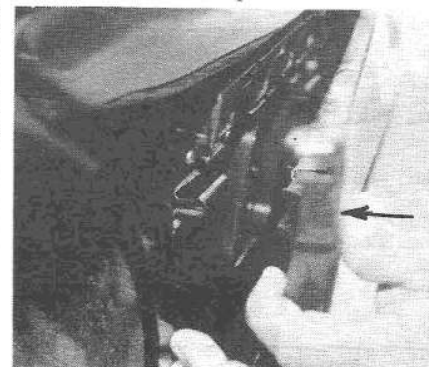


Bumper clip



Body bracket

Cabin air out ducts
Push clip to bracket



Install 2 screws at wheel arch screws at boot opening - Install bolts to bracket under bumper