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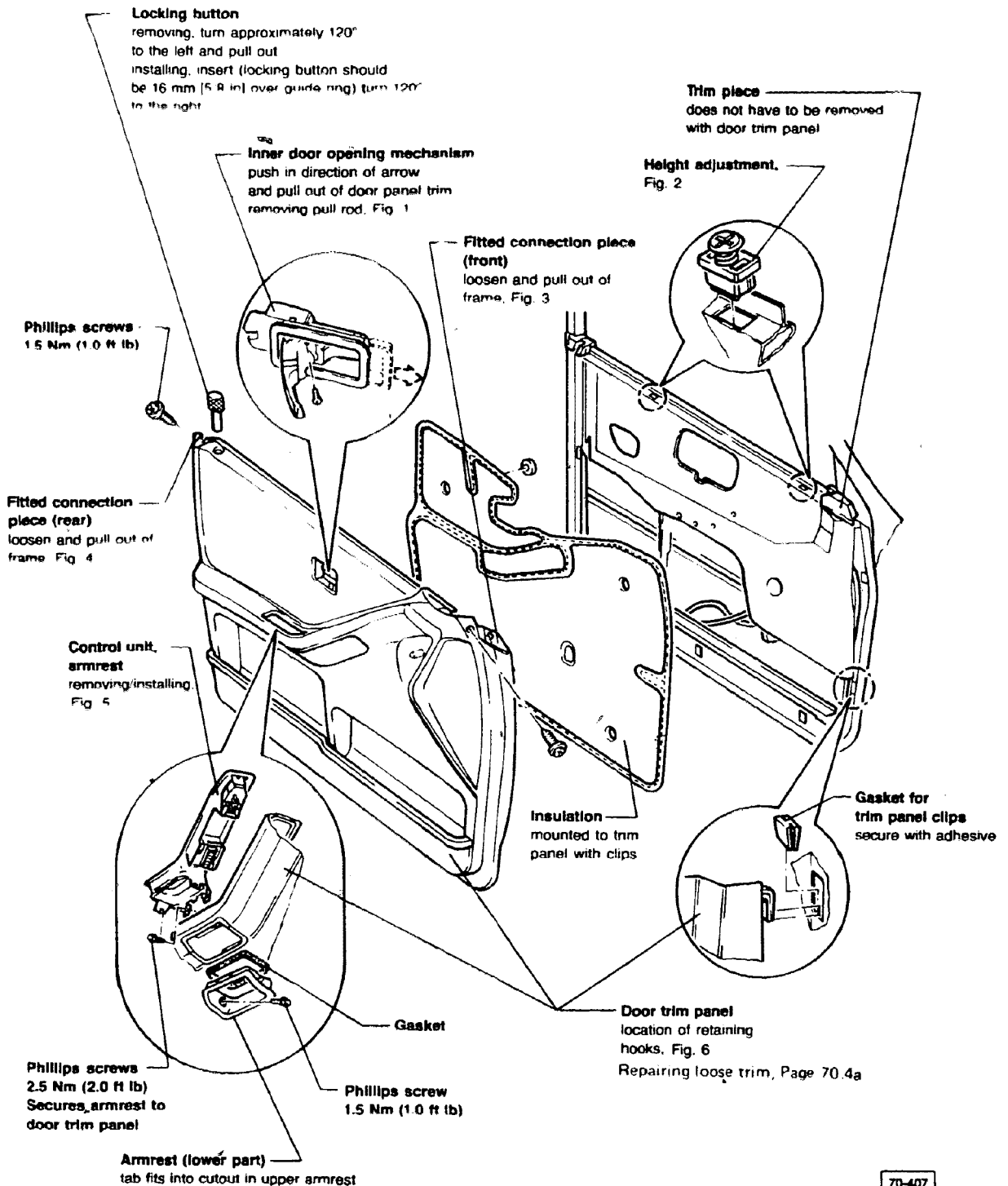
- Rear apron trim**
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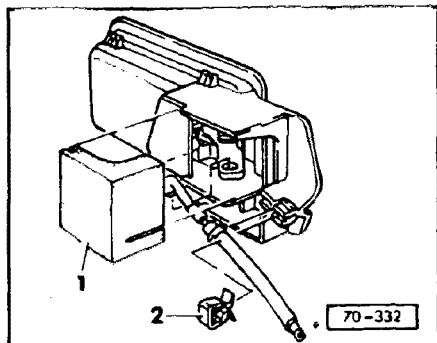
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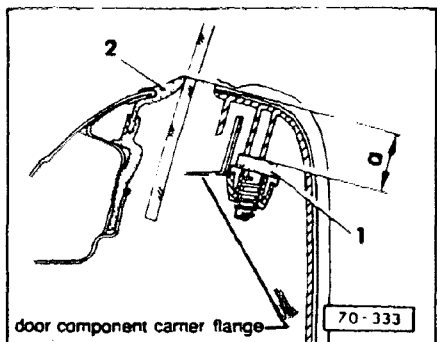


70-407



► Fig. 1 Pull rod

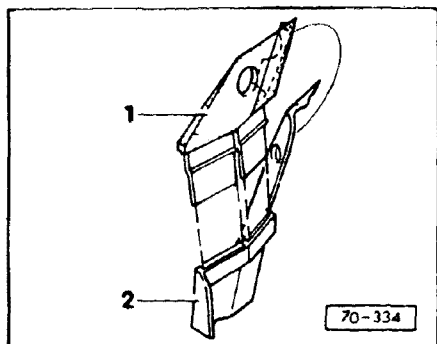
Seal 1
Clip 2



► Fig. 2 Front door trim panel, height adjustment

Adjust trim panel to same height as outer window slot molding 2

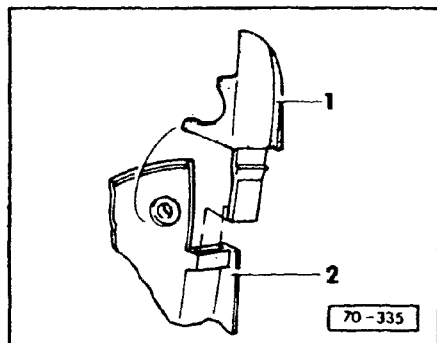
- mount door trim panel into position
- check dimension:
a = 21.0 mm (13/16 in)
- adjust door trim panel, if necessary, with screw 1 to achieve dimension a



► Fig. 3 Connecting piece, front

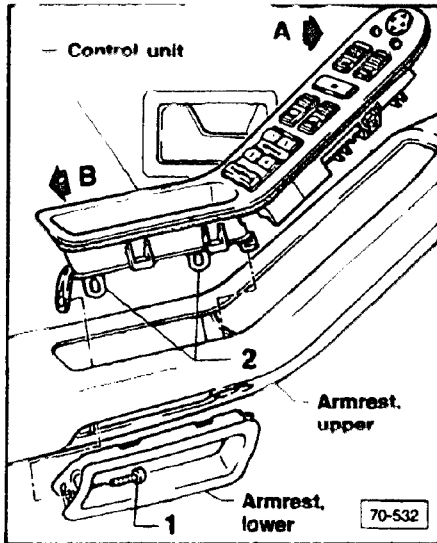
- Glued to door shell

Connecting piece 1
Door panel 2



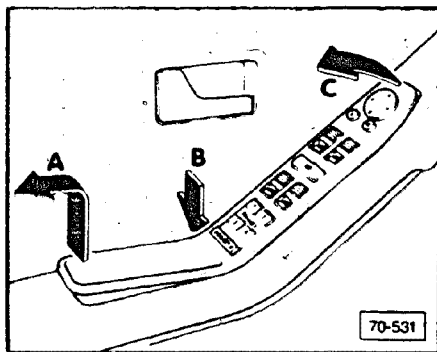
► Fig. 4 Connecting piece, rear

Connecting piece 1
Door panel 2



Armrest control unit, removing

- Fig. 5
- remove Phillips screw 1 and take off lower armrest
 - remove Phillips screws 2 along bottom of control unit
 - lift control unit at top (arrow A), and push slightly toward rear (arrow B)

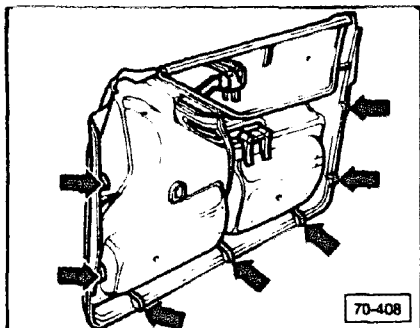


- press control unit downward at B, and carefully pry out of armrest at C
 - control unit must be first removed at point C to prevent damage to armrest
 - use cloth tape covered plastic wedge to pry out
- remove control unit in direction of arrow A
- unplug all electrical connectors from control unit

Armrest control unit, installing

Install all components in reverse order of removal, noting the following:

- reinstall Phillips screw 1
 - 1.5 Nm (1.0 ft lb)
- reinstall Phillips screws 2 at bottom of control unit
 - 2.5 Nm (2.0 ft lb)



► Fig. 6 Retaining hooks, locations

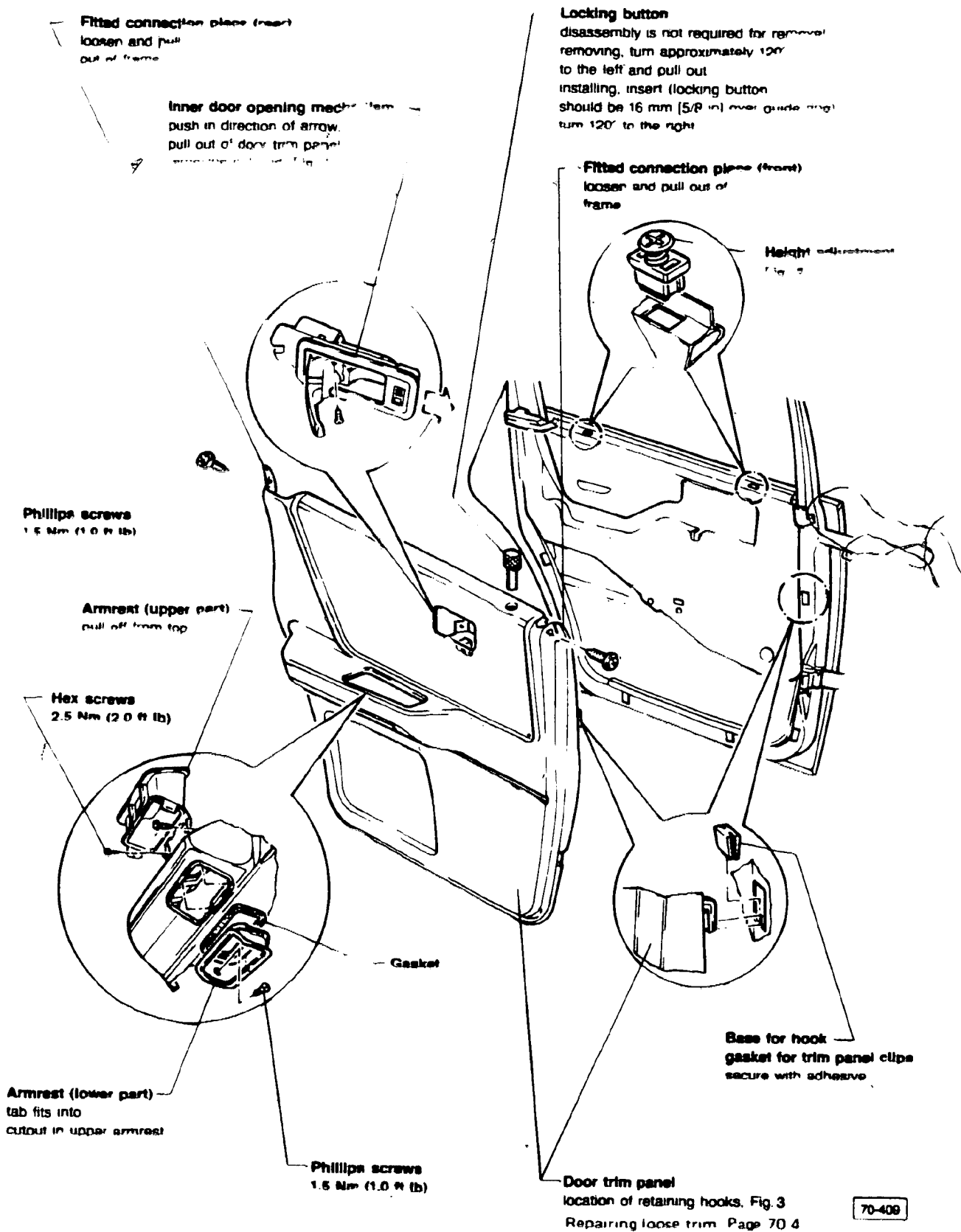
Door panel trim, cloth separating

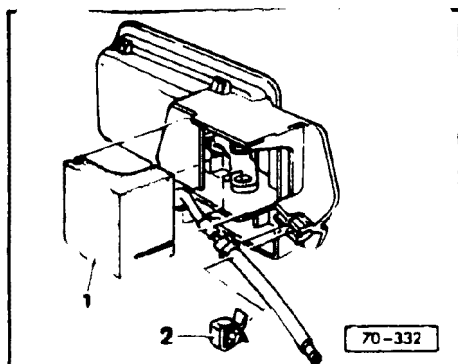
Loose cloth trim may be repaired as follows:

- slightly pull back loose cloth from door panel trim
- apply adhesive D 000 801 (with 10% hardened D 000 802) or equivalent to **both** cloth and trim panel
- allow to air dry approximately 10 minutes
- position cloth trim, and press to door trim panel
- smooth out using plastic spatula or similar tool
- allow to fully harden
 - approximately 30 minutes

CAUTION

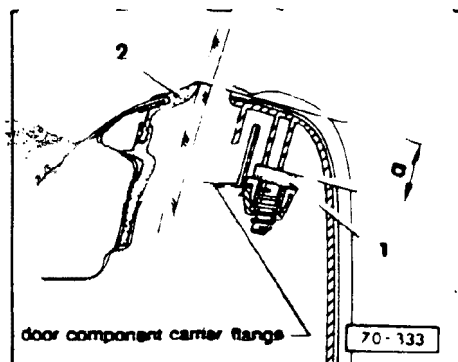
Part numbers are listed for reference only. Always consult with the Parts Department for latest information.





► Fig 1 Pull rod

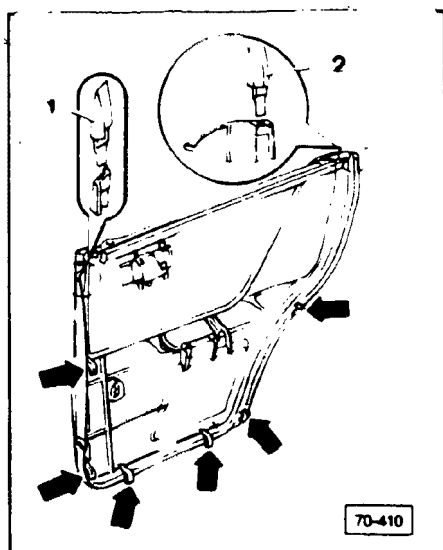
- 1 = Seal
- 2 = Clip



► Fig 2 Rear door trim panel, height adjustment

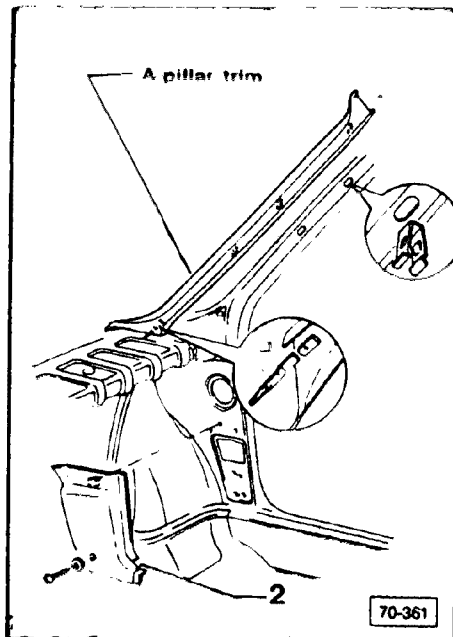
Adjust trim panel to same height as outer window slot molding 2

- mount door trim panel into position
- check dimension:
 - a = 21 mm (13/16 in)
- adjust door trim panel, if necessary with screw 1 to achieve dimension a



► Fig 3 Retaining hooks, location

- 1 = Adapter, front
- 2 = Adapter rear



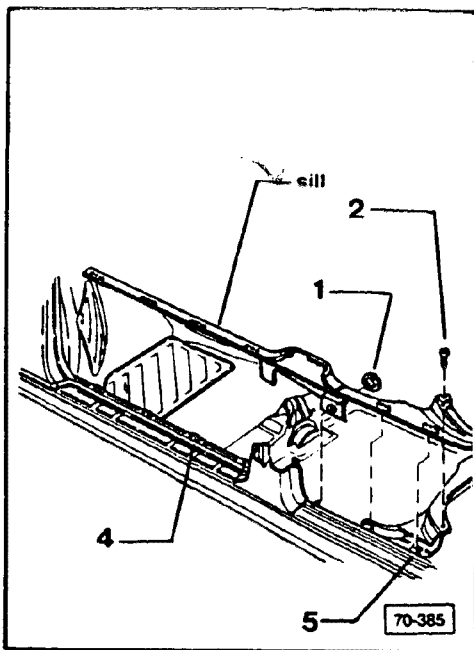
A-pillar trim, removing/installing

Removing

- pull trim out of clips at top
- pull trim upwards and take out
- remove screw, and take off trim 2
 - note clip at top

Installing

Install in reverse order of removal



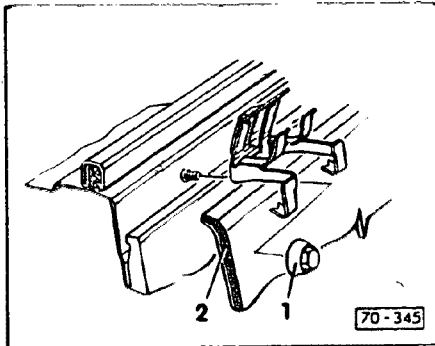
Door sill trim, removing/installing

Removing

- remove left or right front seat
- remove rear bench seat
- unscrew clip 1 with fuse removal tool
- remove Phillips screw 2
- remove sill trim upwards and out of retaining clips 4, 5

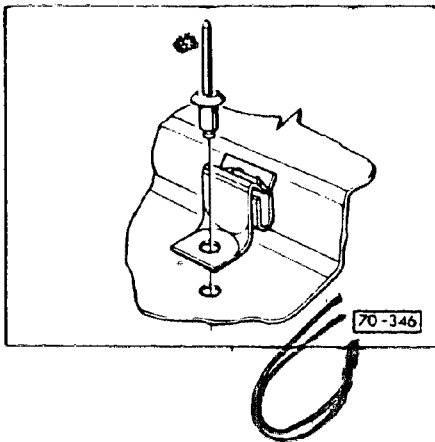
Installing

Install in reverse order of removal



Front door sill retaining clip, installing

- secure to body with cap nut 1
 - carpet 2 must be positioned behind clip (as shown)



Rear door sill retaining clip, installing

- install with pop-rivet

B-pillar trim, removing/installing

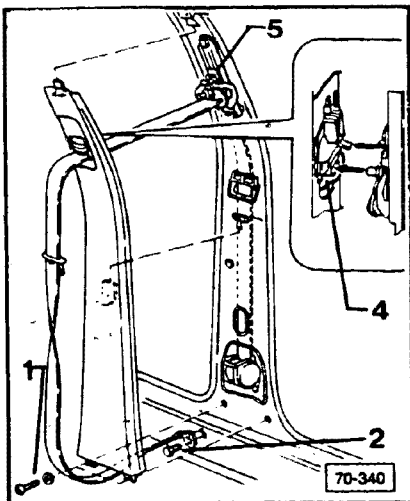
Removing

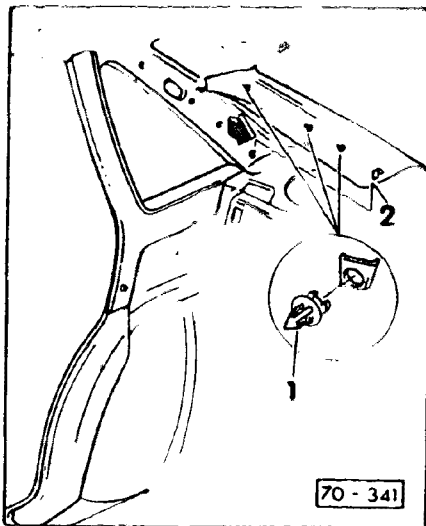
- remove door sill trim, see page 70.7
- remove Phillips screw 1
- remove hex head bolt 2
 - 50 Nm (37 ft lb)
- remove B-pillar trim by pulling downwards out of metal tabs (arrows)

Installing

Install in reverse order, noting following:

- set seat belt height adjuster to lowest position
- install B-pillar trim at top first
 - do not depress button 4 when installing
 - operating lever 5 fits under button 4
- ensure belt height adjuster clicks into first position
- check seat belt height adjustment mechanism for proper function

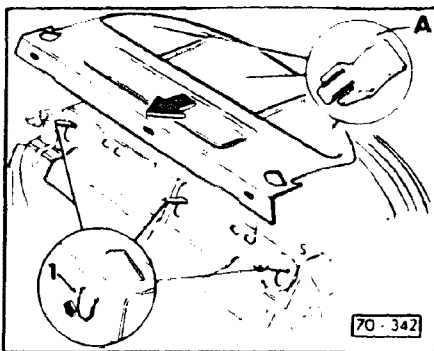




Rear filler panel, removing/installing

Removing

- remove rear seat bench and seat back (see Repair Group 72)
- unclip D-pillar trim, pull off in upwards direction
 - 1 = clip
 - 2 = hook

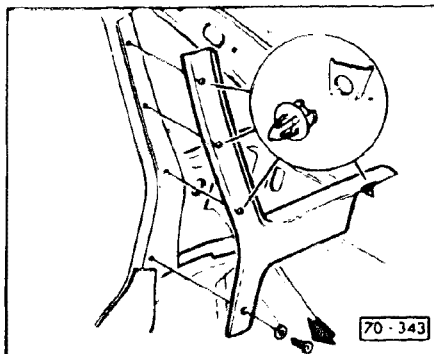


- remove outer seat belt mounting bolts
 - 50 Nm (37 ft lb)
- bend open metal tabs 1
- remove panel out toward front

Installing

Install in reverse order, note the following:

- press panel downward at location of three clips (insert A)



C-pillar trim, removing/installing

Removing

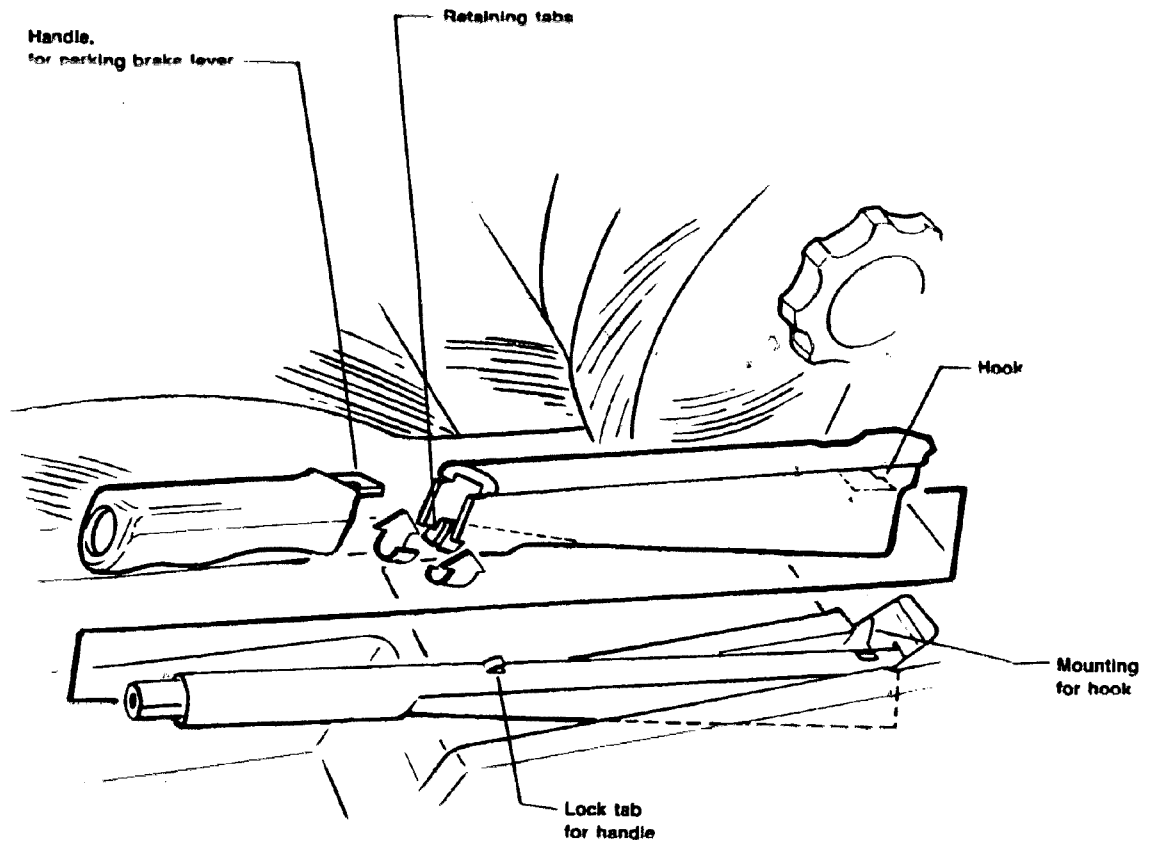
- remove rear seat bench and seat back (see Repair Group 72)
- remove rear panel
- remove Phillips screw (arrow)
- remove trim from C-pillar
- pry out trim together with rear clip

Installing

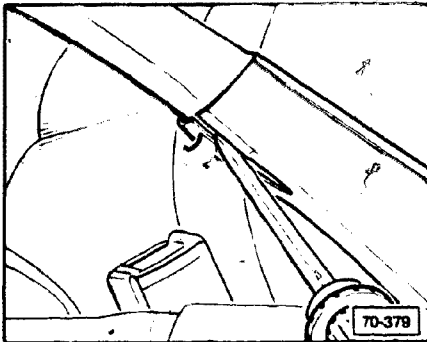
Install in reverse order of removal.

THIS FRAME INTENTIONALLY LEFT

BLANK



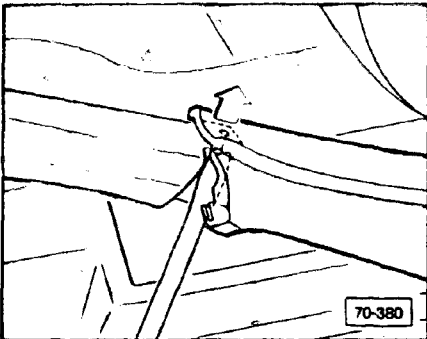
70-378



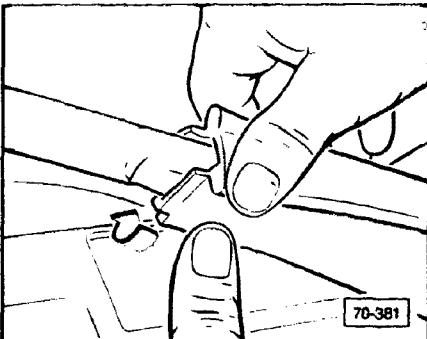
Parking brake lever trim, removing/ installing

Removing

- pull up hand brake lever
- pry off retaining tabs (arrow), pull handle forward



- remove handle by lifting off lock tab
- pull rear trim forward (arrow)



Installing

Install in reverse order of removal, note the following:

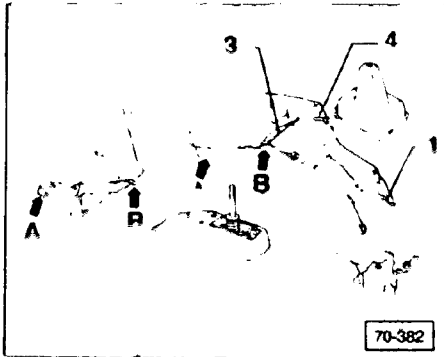
- press trim downward in rear to engage hook
- insert retaining tabs into hand brake lever (as shown)
- insert handle



Center console removing/installing

Removing

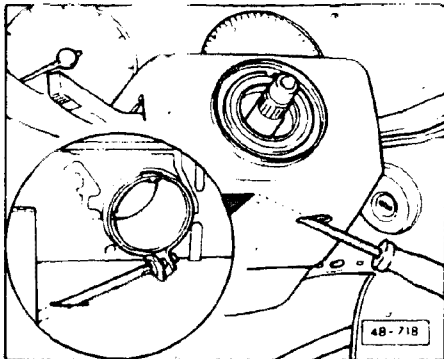
- disconnect battery ground strap
- remove ashtray
- unclip trim plate, remove screws
- lift center console upwards and forward off handbrake lever



- unscrew shift lever knob
- remove bolt 1
- pull trim 3 away, unscrew hex head screws 4
- pull out center console toward rear from guides A and B

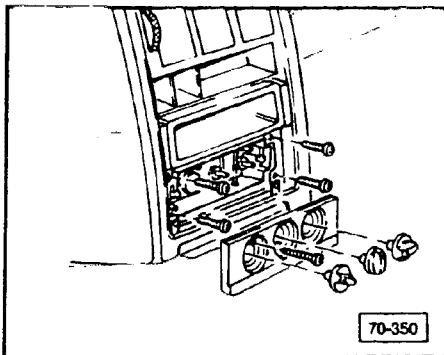
Installing

Install in reverse order

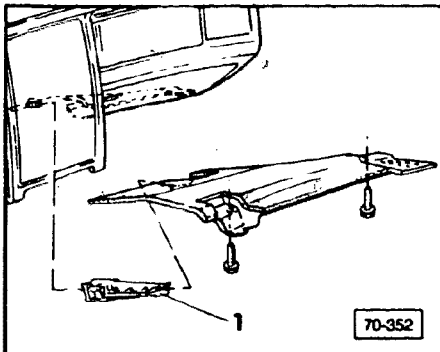


Instrument panel, removing

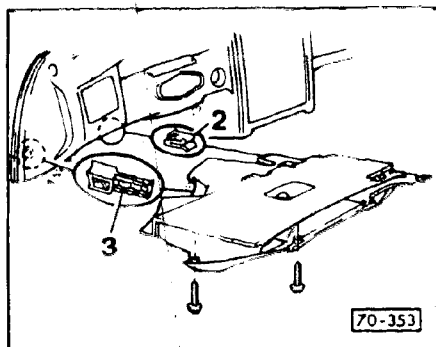
- remove steering wheel
- insert screwdriver (as shown), loosen securing clamp for switch
- remove switch



- remove instrument cluster
- pull off three knobs for ventilation controls
- unscrew and remove trim panel
 - screws located behind left and right knobs
- remove housing screws
- unscrew control unit
- disconnect multi-pin connectors



- remove cover on front passenger's side and pull out of bracket 1

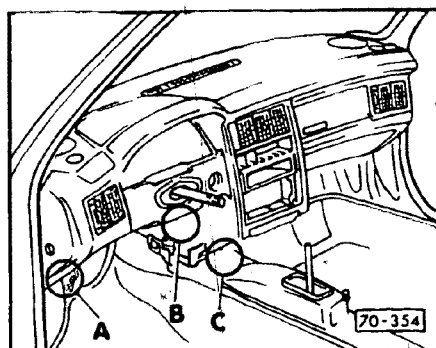


- remove shelf on driver's side
- pull shelf off retaining clip 2 and bracket 3

Note

The wiring harnesses in the instrument panel are routed in cable ducts.

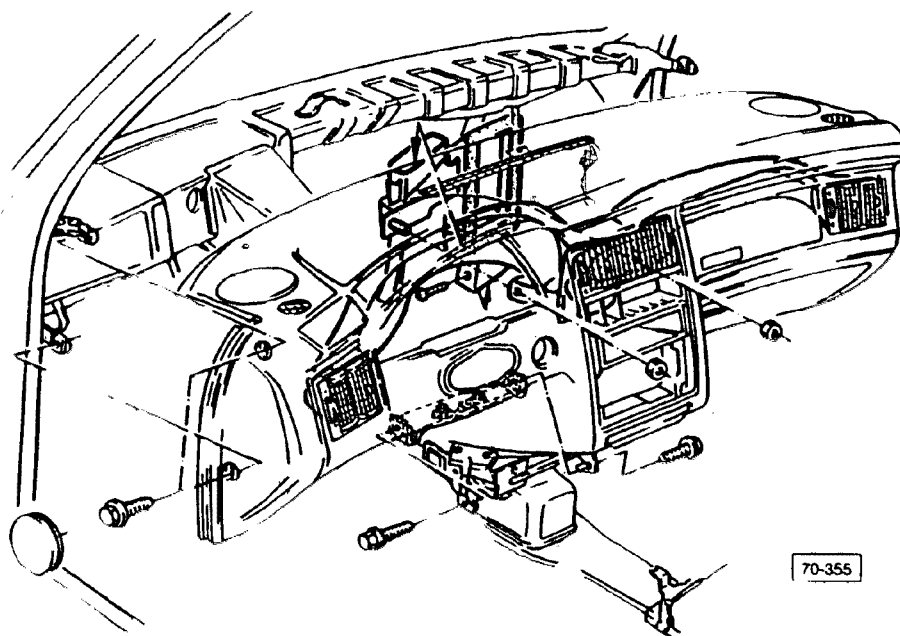
- disconnect terminal connection or pull off multi-pin connector



- A — remove wiring harness from relay carrier and relay plate with fuse box
 - ground wire
- B — wiring harness outlet from instrument panel located here
- C — terminal connections from tunnel located here. Detach connection from welded stud on cross member

Note

Switches need not be disconnected



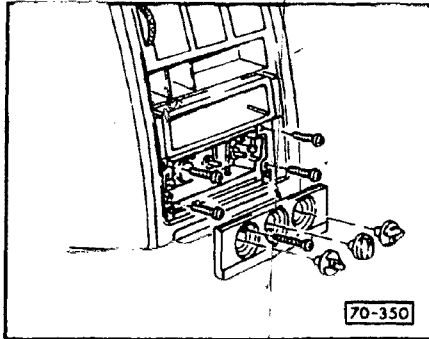
- remove cover caps and take off screws
- remove nuts from heater housing
- remove Phillips screw from defroster duct
- push-up defroster vent duct connector slightly, and carefully pull away from instrument panel

Instrument panel, installing

Installing

Install in reverse order, note the following:

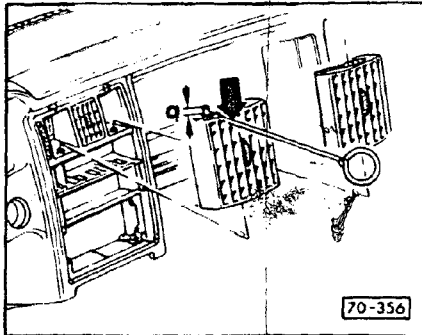
- push hose from defroster duct up and into blower nozzles
 - ensure secure fit
- keeping side and bottom mounting screws loose, adjust gap between instrument panel and windshield to approximately 7.0 mm (9/32 in)
- close both front doors
- ensure retaining tabs of trim panel fit behind edge of housing
- adjust instrument panel to same height as door trim panels
- tighten instrument panel mounting screws
 - 5 Nm (3.7 ft lb)
- reinstall steering wheel
 - 40 Nm (30 ft lb)



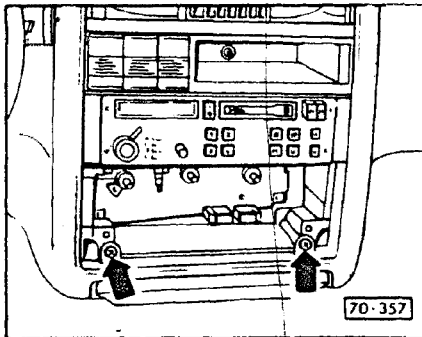
Instrument panel center section, removing/installing

Removing

- remove center console, see 70.11
- pull off three control knobs for ventilation controls
- unscrew and remove trim panel
- remove radio



- pull out swivel fittings on left and right with bent wire
 - a = 3-4 mm (1/8-5/32 in)
- insert tool at the top to the right or left of the center section and behind the swivel fitting housing edge



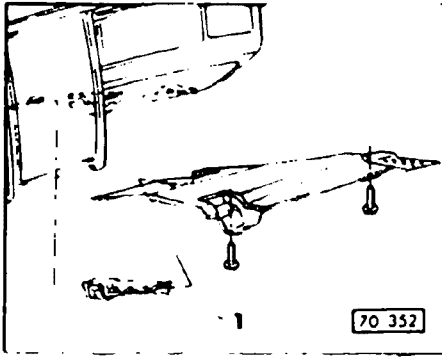
- remove Phillips screws and press ashtray down slightly



- unscrew center section and remove
- detach connector from switch or radio

Installing

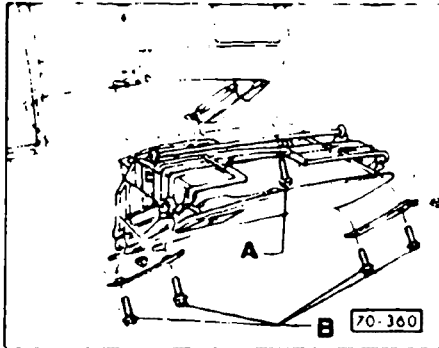
Install in reverse order.



Glove compartment, removing/Installing

Removing

- remove cover on front passenger's side and pull out bracket 1



- remove screws B
 - note screw A behind lock hook
- press glove compartment toward center of vehicle, and remove downward

Installing

Install in reverse order

CAUTION

Before starting work, disconnect battery ground strap

CAUTION

Read all warning labels and cautions before proceeding with repairs

Tools required

- wallpaper roller
- toothed trowel
- utility knife with trapezoidal blade
- hot air blower

Materials required

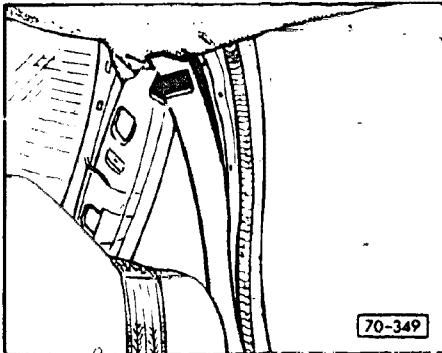
- adhesive AKL 407 000 05

Headliner, vehicles without sunroof

Note

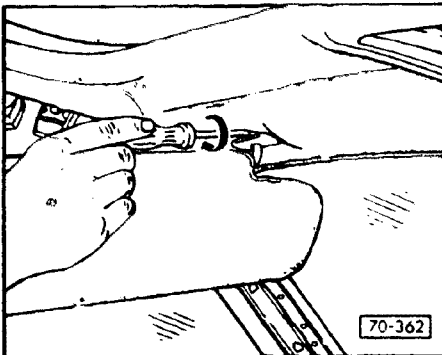
The bonded headliner cannot be removed without being destroyed. Remove the headliner by pulling it from the roof lengthwise in 100 mm (4 in) wide strips. This ensures that the roof panel is not deformed during the removal process.

If you have to repair the roof panel, pull the headliner away in the damaged area first. After repairs, remove the remaining headliner.

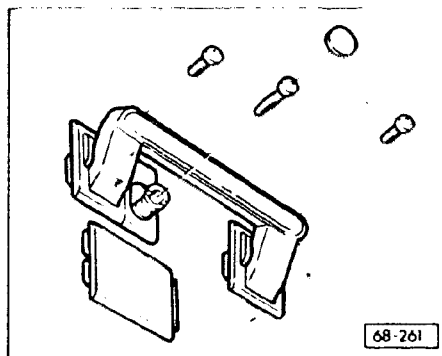


Removing

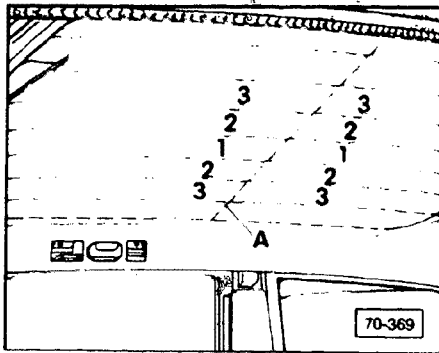
- remove trim panels from A, B-pillars (see Repair Group 70)
- pull out C-pillar trim from top only, see page 70.9
- remove beading between windshield and headliner
- remove beading between rear window and headliner



- pry out caps for both sunvisor brackets with screwdriver
- remove sunvisors and brackets
- remove interior light



- remove assist handles



CAUTION

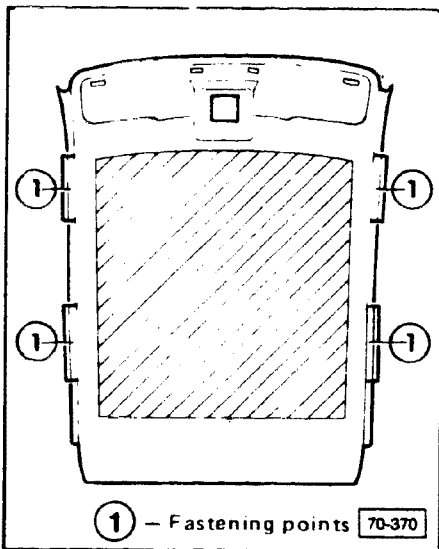
If paintwork on the inside of the roof has been damaged when removing the headlining, the damaged areas must be primed.

CAUTION

When using hot air blower, **do not** heat roof to over 100°C (212°F), otherwise paint will be damaged.

Before starting installation of new headliner, note the following:

- install headliner at room temperature of at least 20°C (68°F)
- if necessary, warmup adhesive cartridge in hot water
- adhesive is applied to thickness of 2-3 mm (1/8 in)
- shorten tip of adhesive cartridge to half length and cut off at angle



① – Fastening points 70-370

- using utility knife, cut across roof at point A
- cut headlining into 100 mm (4 0 in) wide strips
- support roof with one hand
- starting at center, start pulling off headliner in sequence (as shown)

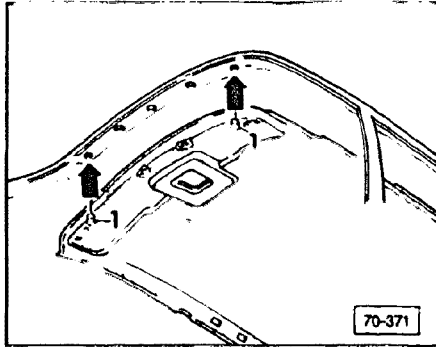
Note

The scraps of paper remaining after pulling off the headlining can be easily removed with the aid of a hot air gun. Small scraps need not be removed.

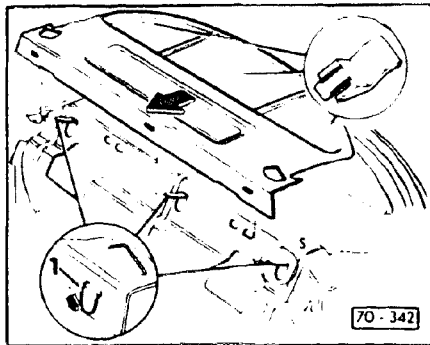
Headliner, vehicles without sunroof

Installing

- fold down front passenger seat backrest
- guide replacement headlining in through open passenger door
- apply adhesive material to headlining in parallel runs with toothed trowel
- allow approximately 30 minutes before installing headliner to roof
 - if installation is delayed, adhesive must be scraped off and reapplied later
- remove excess adhesive immediately with water
 - remove partially dried adhesive with 3M® General Purpose Adhesive Cleaner or equivalent
 - fully hardened adhesive **cannot** be removed
- immediately before bonding headlining, heat adhesive from distance of 200-300 mm (8-12 in) to approximately 60°C (140°F)



- guide headlining first on top over C-pillar trims
- fasten headlining into front with centers in roof frame
- fasten headlining in front lightly with sunvisor brackets 1



- press headlining from front to rear
- press into side retaining flange 1. above doors in the retaining channel
- roll headlining down to roof with wallpaper roller
 - start at center and work outward
- reinstall all interior parts
- reconnect battery ground strap

CAUTION

Before starting work, disconnect battery ground strap

CAUTION

Read all warning labels and cautions before proceeding with repairs

Tools required

- wallpaper roller
- toothed trowel
- utility knife with trapezoidal blade
- hot air blower

Materials required

- adhesive AKL 407 000 05

Headliner, vehicles with sunroof

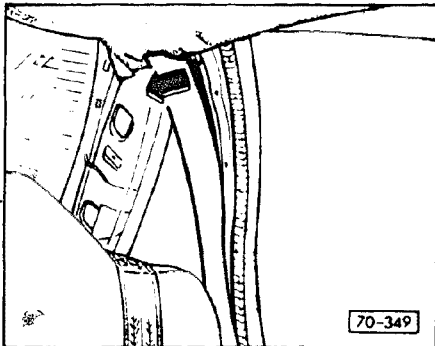
Note

The bonded headliner cannot be removed without being destroyed.

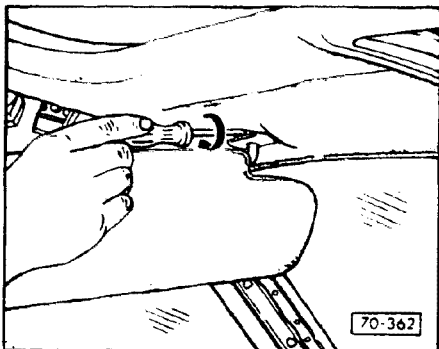
Since the strength of the roof of vehicles with sunroof is reinforced with the water tray, the headlining does not need to be cut into strips

Removing

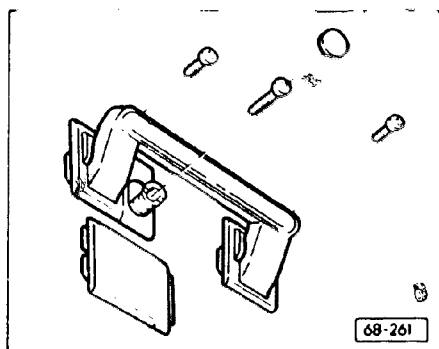
- remove sunroof completely (see Repair Group 60)
- remove beading between windshield and headliner
- remove beading between rear window and headliner



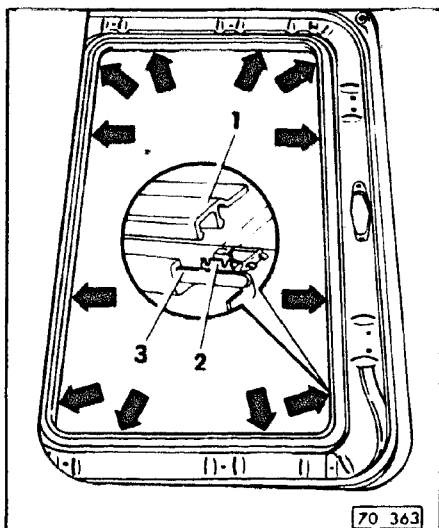
- pull out C-pillar trim from top only, see page 70.9



- pry out caps for both sunvisor brackets with screwdriver
- remove sunvisors and brackets



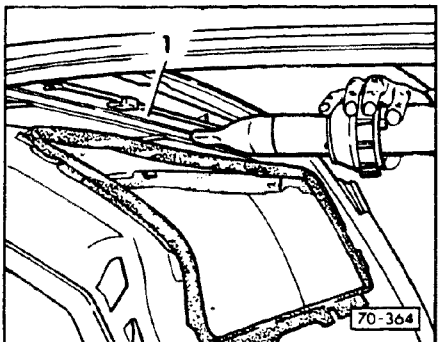
- remove assist handles



- remove cover frame 1 for sunroof cutout from the top of clips 2 (arrows)
 - note reinforcement in headlining 3
- pull headlining up to sunroof cutout

Note

Headlining is glued **only** in area of water tray.



- heat adhesive area between water tray 1 and headlining with hot air blower
- carefully pull headlining downward from water tray

Note

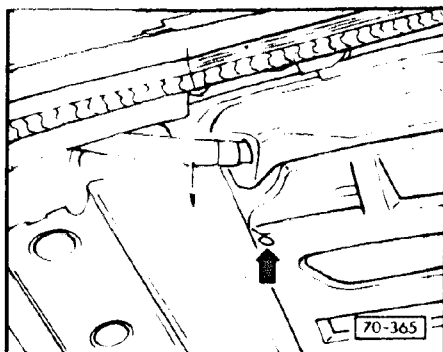
The scraps of paper remaining after pulling off the headlining can be easily removed with the aid of a hot air gun. Small scraps need not be removed.

CAUTION

If paintwork on the inside of the roof has been damaged when removing the headlining, the damaged areas must be primed.

CAUTION

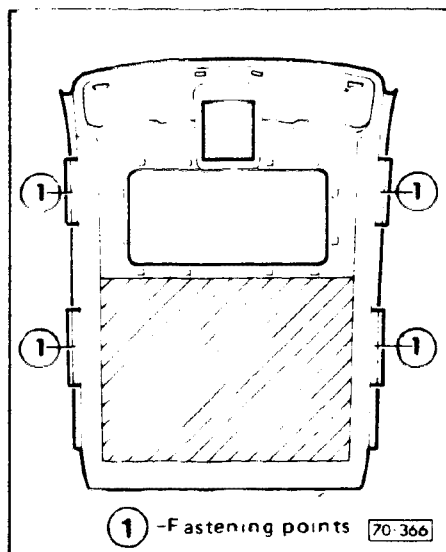
When using hot air blower, **do not** heat roof to over 100°C (212°F), otherwise paint will be damaged.



- check that clear seals (arrow) left/right are installed on water tray
- if missing use cloth or duct tape
- 1 – water drain hose

Before starting installation of new headliner, note the following:

- install headliner at room temperature of at least 20°C (68°F)
- if necessary, warmup adhesive cartridge in hot water
- adhesive is applied to thickness of 2-3 mm (1/8 in)
- shorten tip of adhesive cartridge to half length and cut off at angle

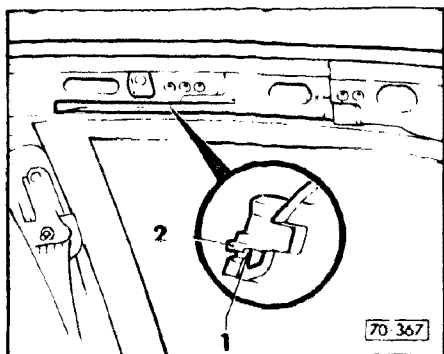


① – Fastening points

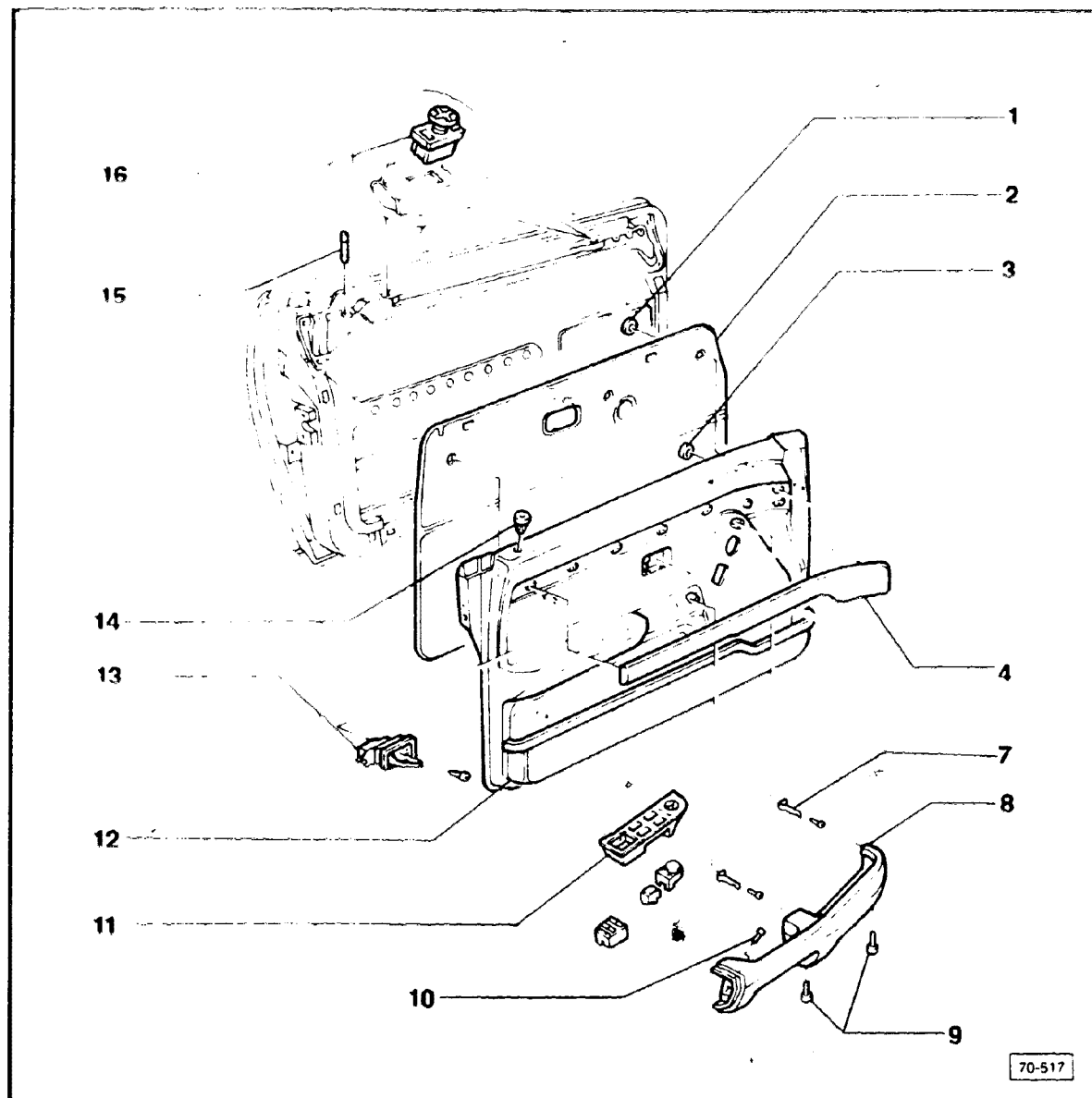
Headliner, vehicles with sunroof

Installing

- fold down front passenger seat backrest
- guide replacement headlining in through passenger door
- apply adhesive material to headlining in parallel runs with toothed trowel
- allow approximately 30 minutes before installing headliner to roof
 - if installation is delayed, adhesive must be scraped off and reapplied later
- remove excess adhesive immediately with water
 - remove partially dried adhesive with 3M® General Purpose Adhesive Cleaner or equivalent
 - fully hardened adhesive **cannot** be removed
- immediately before bonding headlining, heat adhesive from distance of 200-300 mm (8-12 in) to approximately 60°C (140°F)
- guide headlining first on top over both C-pillar trim panels
- fasten headlining in front lightly with sunvisor brackets
- position headlining toward sunroof cutout, and press on completely



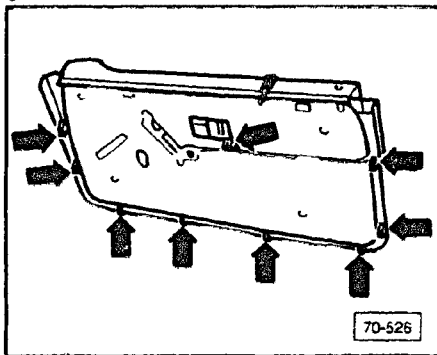
- press in retaining flange 1 lateral above doors, into the retaining channel 2
- insert cover frame in sunroof cutout
- roll the headlining onto the roof with a wallpaper roller — beginning in the center of the roof or water tray
- mount interior equipment
- reconnect battery groundstrap



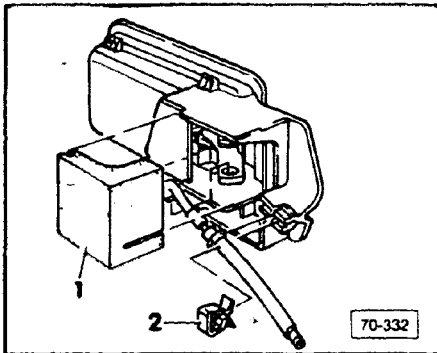
- 1 — Lock washer
- 2 — Insulation
mounted to trim panel with clips
do not reuse if damaged
- 3 — Lock washer
- 4 — Door trim panel
mounted to door with clips
- 7 — Bracket, armrest
secured by screw,
2.5 Nm (32 in. lb)
- 8 — Armrest

- 9 — Pan head tapping screw
2.5 Nm (32 in. lb), inner hex
4.0 mm (5/32 in.)
- 10 — Phillips head screw
2.5 Nm (32 in. lb)
- 11 — Control panel
- 12 — Door trim panel
location of retaining hooks,
Fig. 1
push upwards to remove trim

- 13 — Inner door opening
mechanism
push forward and pull out of
door trim panel
unhook from pull rod, Fig. 2
- 14 — Guide, locking button
- 15 — Locking button
removing, turn approximately
180° and pull out
trim. Does not have to be
disassembled to remove, Fig. 3
- 16 — Height adjustment
Fig. 4

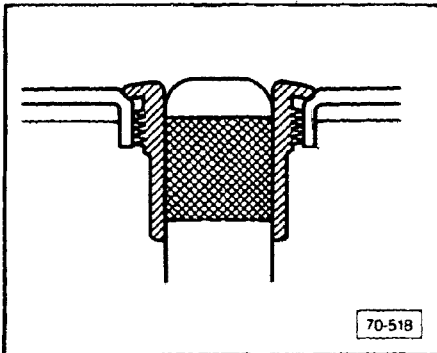


► Fig. 1 Retaining hooks, location



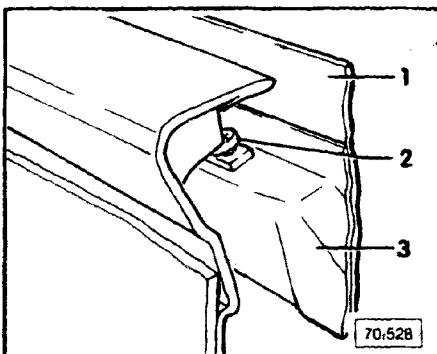
► Fig. 2 Pull rod, assembly

- 1 — seal
- 2 — clip



► Fig. 3 Locking button, installation

- letter **P** on button must point toward window glass
- when in locked position, button is flush with guide trim

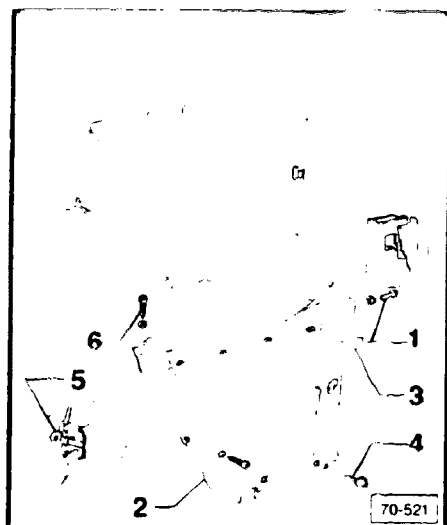


► Fig. 4 Front door trim panel, height adjustment

Adjust trim panel to same-height as outer window slot molding

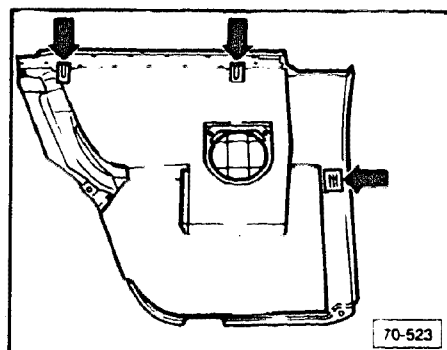
- adjust trim flush to front instrument panel and rear side panel trim
- adjust door trim panel, if necessary, with screw 2

- 1 — window slot molding
- 2 — set screw
- 3 — window regulator



Rear side panel trim, removing

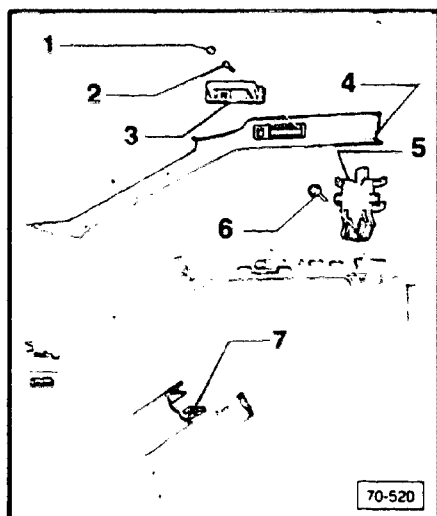
- remove rear seat bench, see Repair Group 72
 - remove upholstery side, rear seatback, see Repair Group 72
 - remove inner door sill trim
- 1 — tapping screw
 - 2 — trim panel (retaining hook location, Fig. 1)
 - 3 — trim (secured with lock washers, see inset 5)
 - 4 — self tapping screw and washer
 - 5 — lock washer for trim 3
 - 6 — self tapping screw (also serves as mounting for belt retractor)



Rear side panel trim, installing

Reinstall all components in reverse order of removal

► Fig. 1 Retaining hooks, location



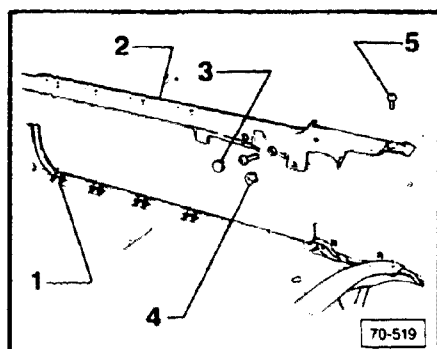
A-pillar trim, removing

- remove cap 1, screw 2 and take off assist handle 3
- pull out trim 4 from clips 7, retaining plate 5

A-pillar trim, installing

Install all components in reverse order of removal, noting the following:

- retaining clip 5 is secured in front hole with screw/washer 6



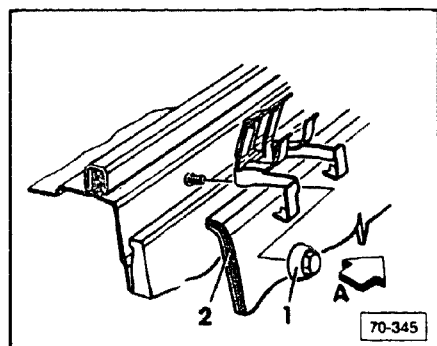
Door sill trim, removing

- remove rear bench seat, see Repair Group 72
- remove clip 4 with fuse removal tool
- remove cap 3, Phillips screws 5
- remove sill trim 2 upwards and out of retaining clips 1

Door sill trim, installing

Install all components in reverse order of removal, noting the following:

- note proper installation of retaining clip 1, see Fig. 3

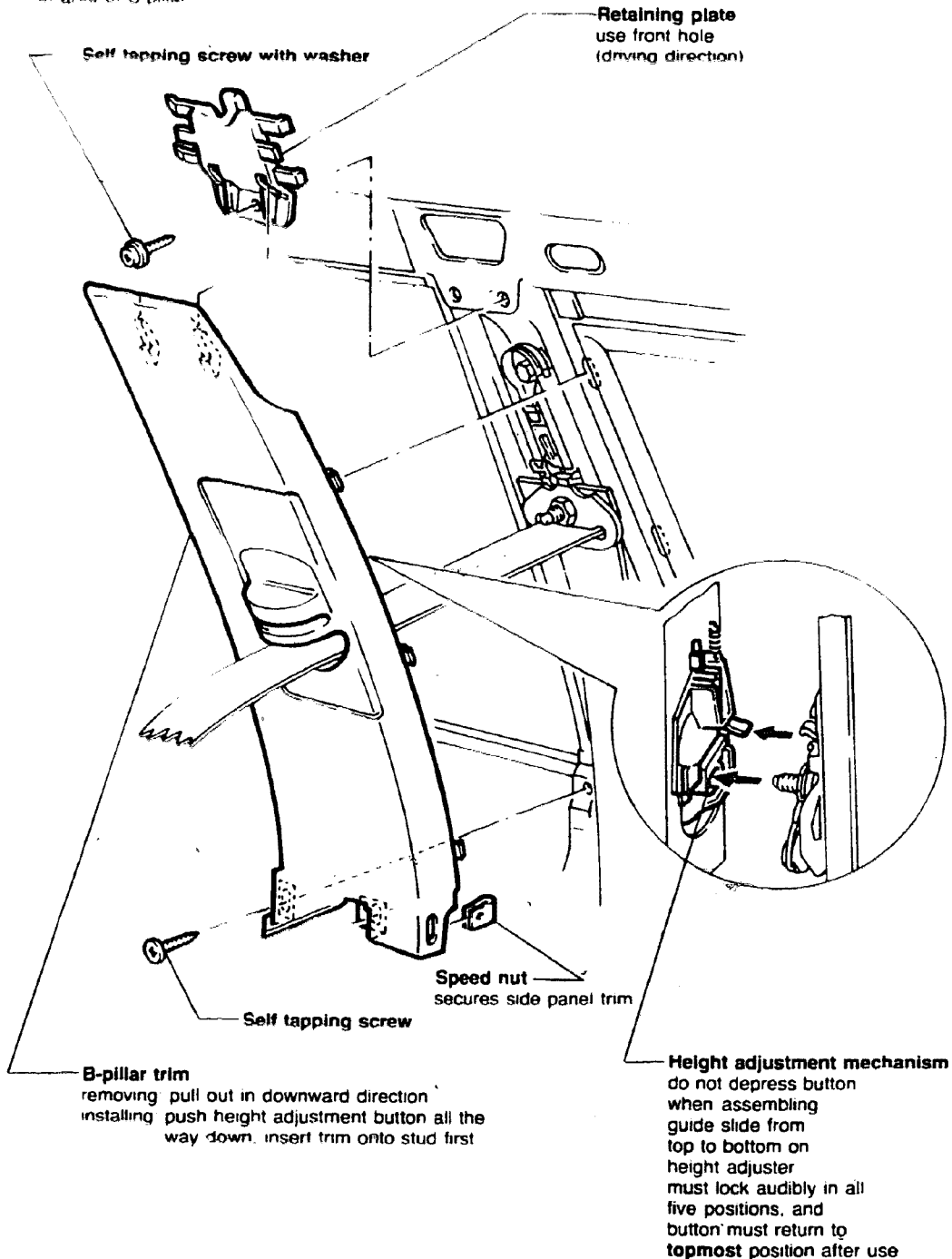


Door sill retaining clip, installing

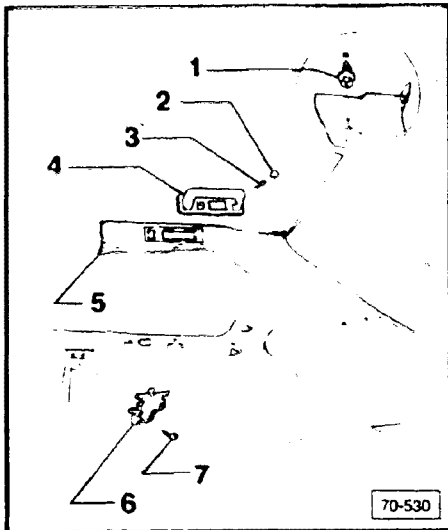
- secure retaining clip with clip nut 1
 - install carpet trim 2 from below, behind retaining clip
- A is driving direction

Note:

Side panel trim must be removed. Pull off door seal at area of B pillar.



70-522



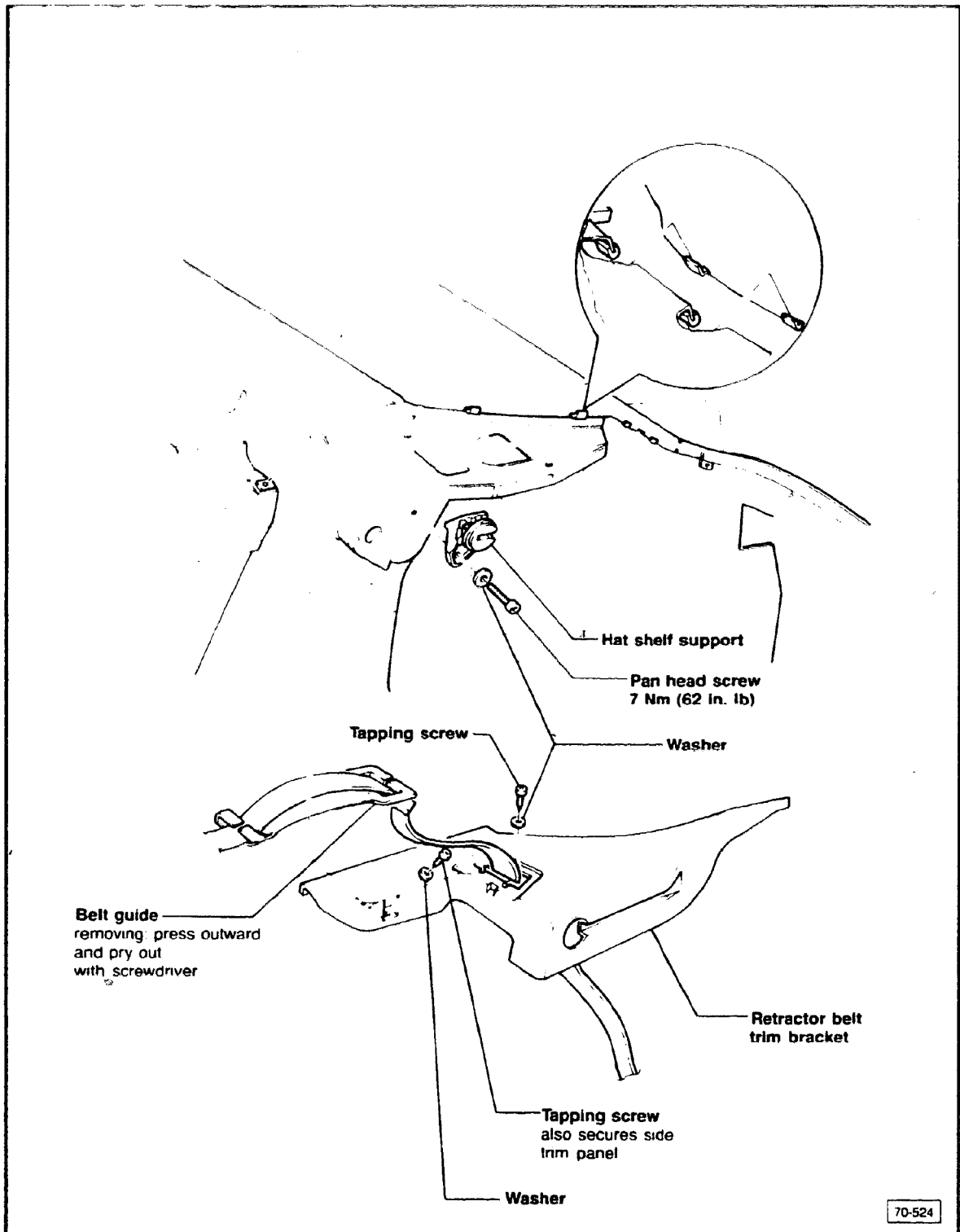
C-pillar trim, removing

- remove bracket for rear belt retractor
- remove cap 2, screw 3, and assist handle 4
- unclip C-pillar 5 from C-pillar clips 1, remove trim from retaining plate 6

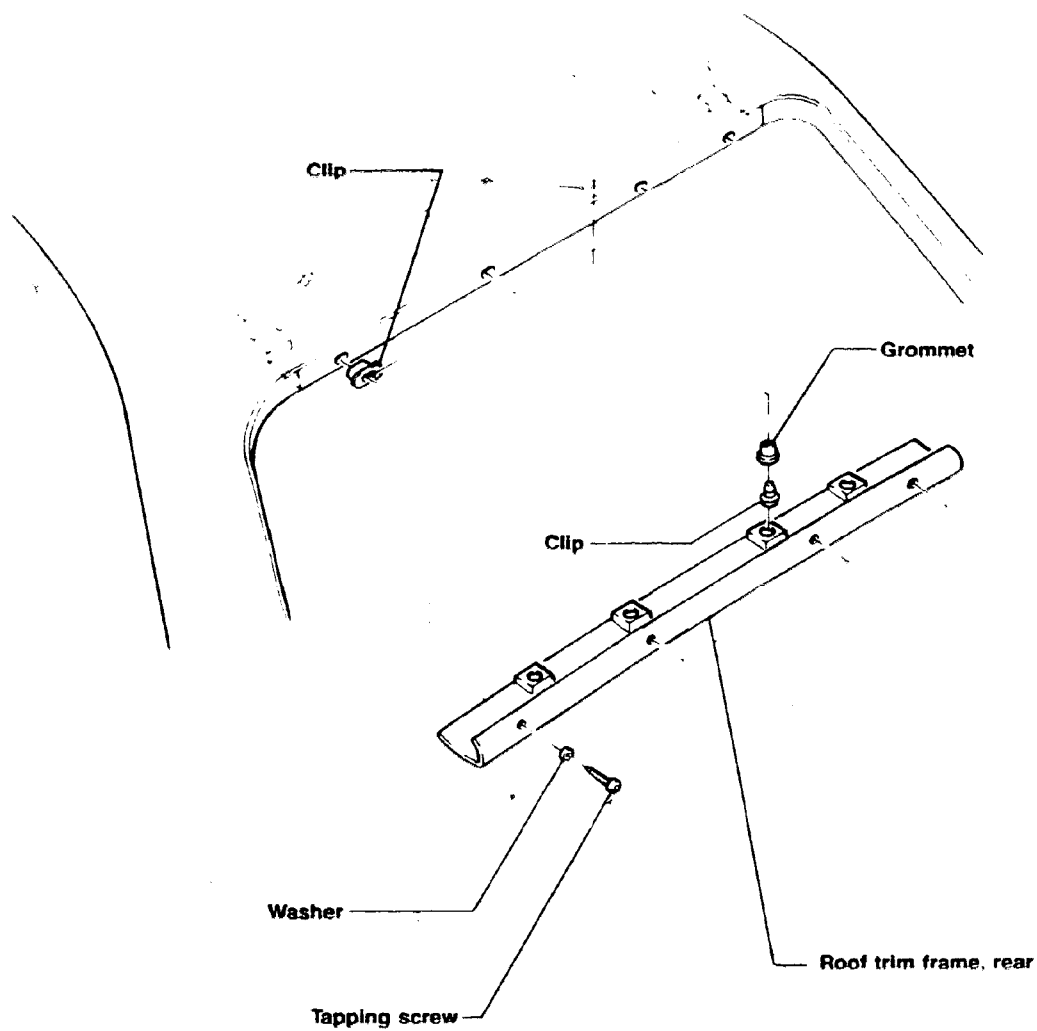
C-pillar trim, installing

Reinstall all components in reverse order, noting the following:

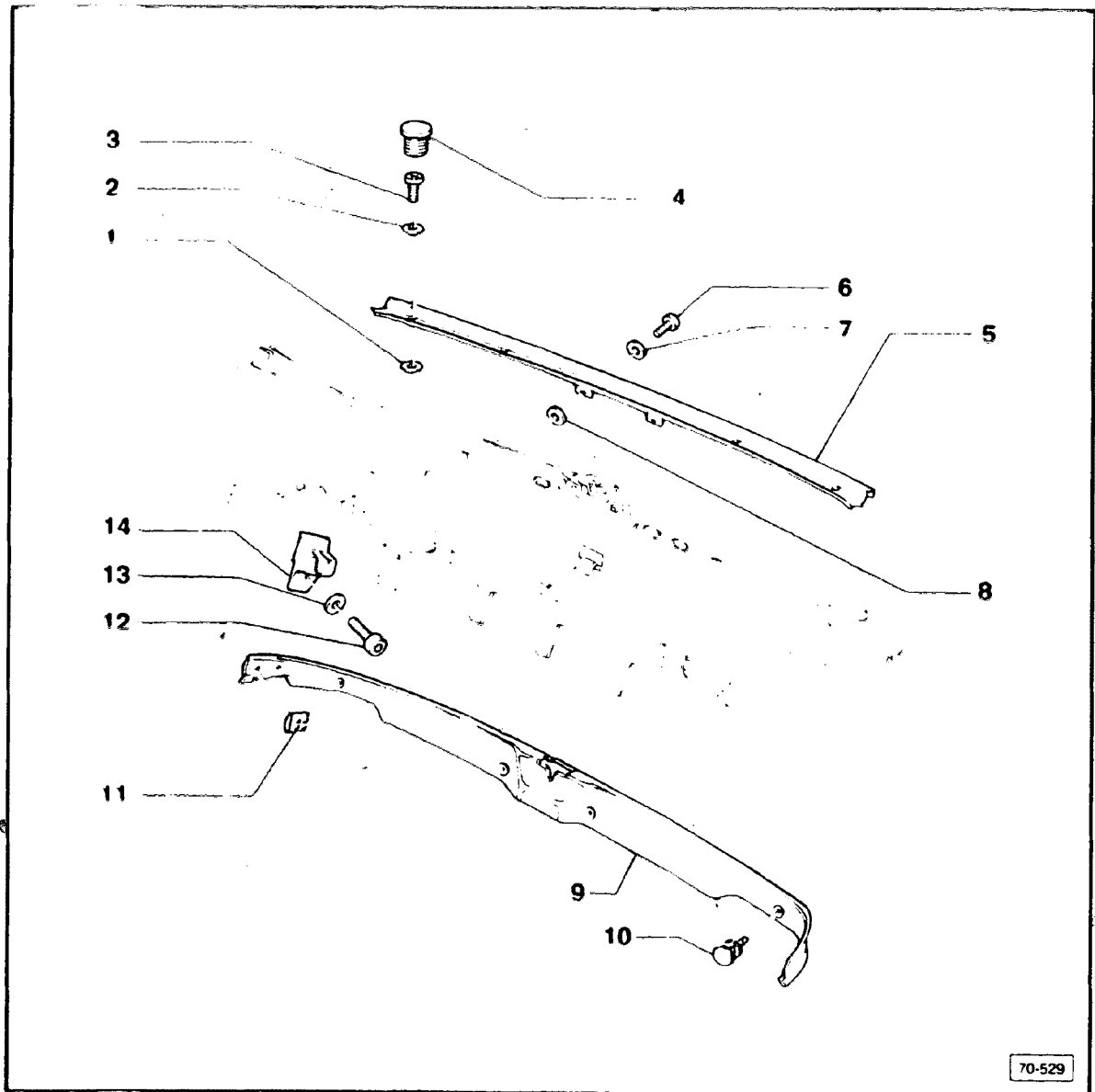
- screw 7 goes into front hole (driving direction)



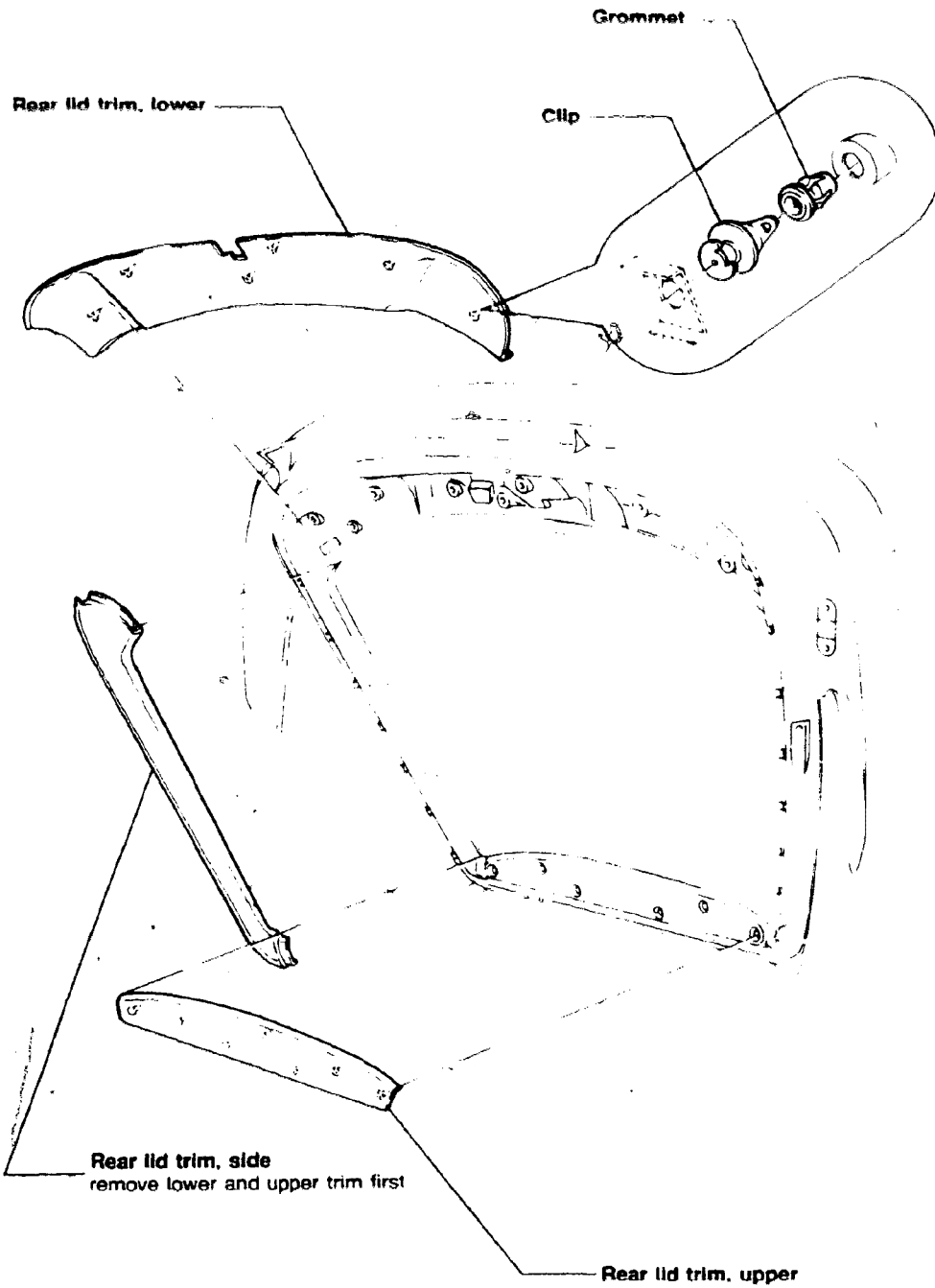
70-524



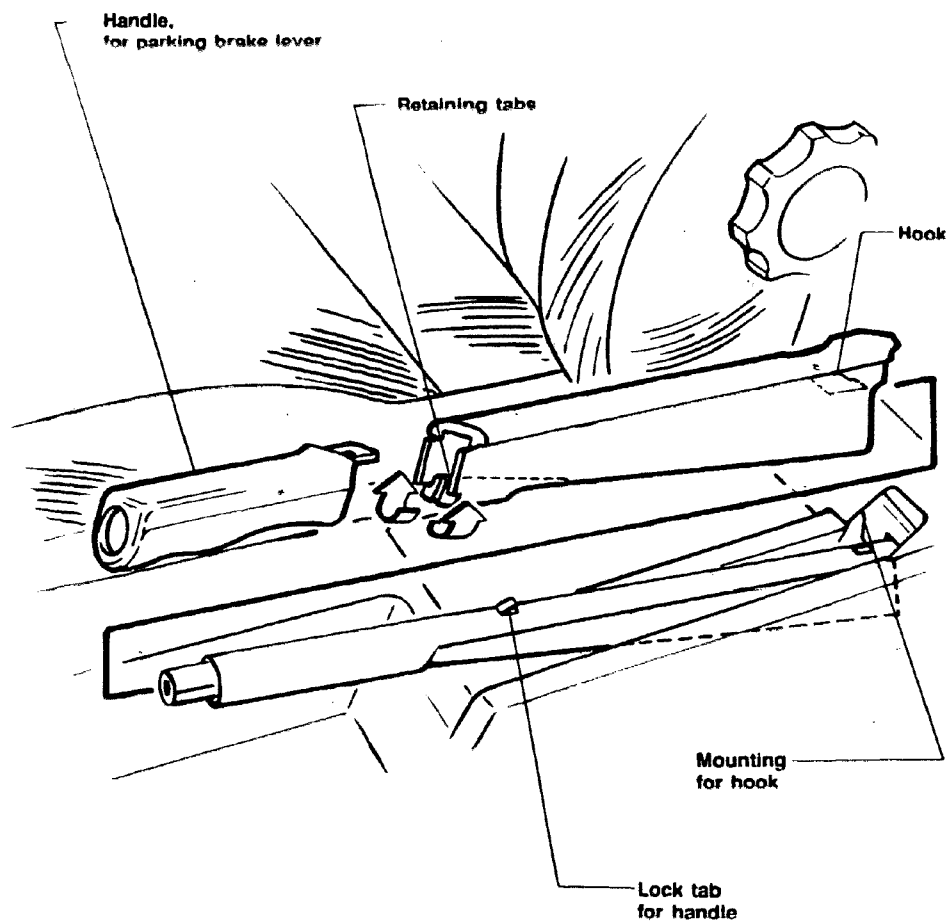
70-525



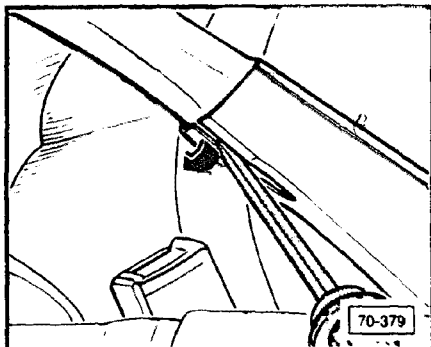
- | | |
|--------------------------------------------------------|---------------------------------|
| 1 — Sealing washer | 8 — Sealing washer |
| 2 — Washer | 9 — Rear apron upper trim panel |
| 3 — Oval head screw | 10 — Clip |
| 4 — Cap | 11 — Locking cam |
| 5 — Edge protector | 12 — Tapping screw |
| 6 — Oval head screw
remove license plate trim first | 13 — Washer |
| 7 — Washer | 14 — Locking tab, hat shelf |



70-527



70-378

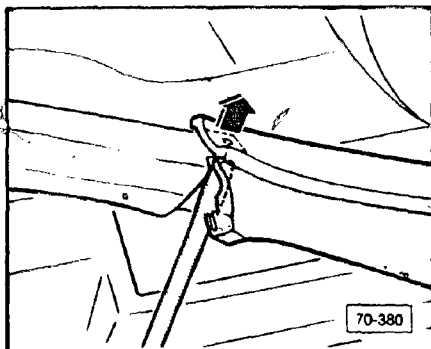


► Parking brake lever trim, removing

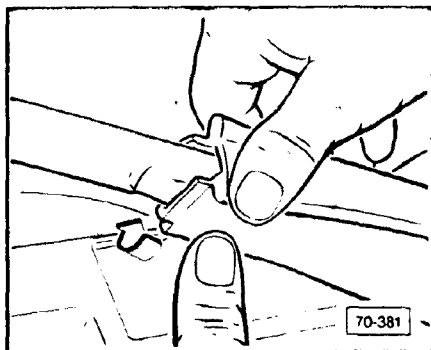
Note

Parking brake lever trim must be removed before disassembly of parking brake.

- pull up hand brake lever
- pry off retaining tabs (arrow), pull handle forward



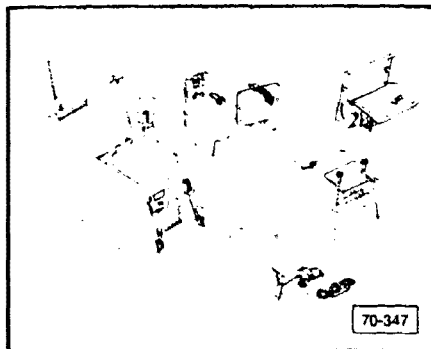
- lift trim slightly
- remove handle by lifting off lock tab (arrow)
- pull rear trim forward



► Parking brake lever trim, installing

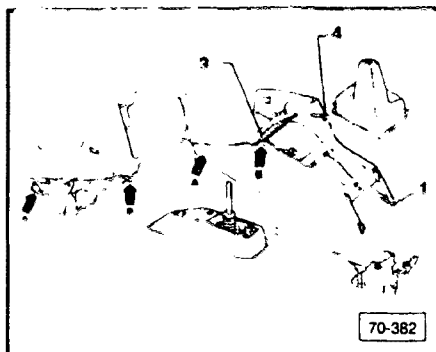
Install in reverse order of removal, note the following:

- press trim downward in rear to engage hook
- insert retaining tabs into hand brake lever (as shown)
- insert handle



► Center console, removing

- disconnect battery ground strap
- remove ashtray
- unclip trim plate, remove screws
- lift center console upwards and forward off handbrake lever

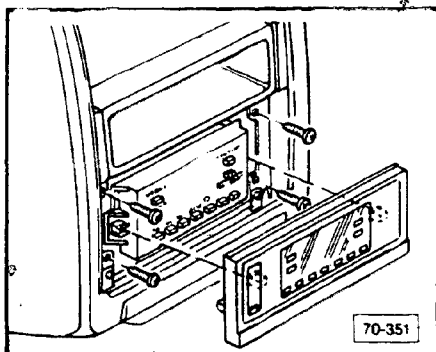


- unscrew shift lever knob
- remove bolt 1
- pull trim 3 away, unscrew hex head screws
- pull out center console toward rear from guides A and B

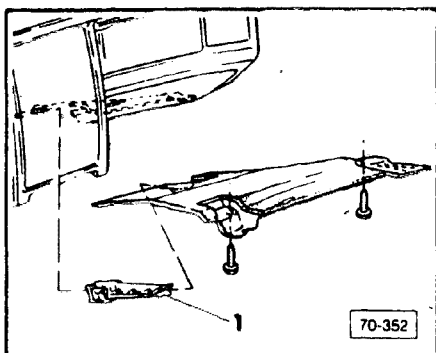
Center console, installing

Reinstall all components in reverse order of removal.

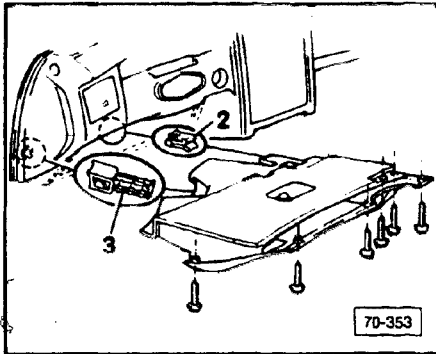
Instrument panel, removing



- remove trim panel
- unscrew control, pull out and remove multi-pin connector
- remove multi-pin connector from heater control



- remove cover on front passenger's side and pull out of bracket 1

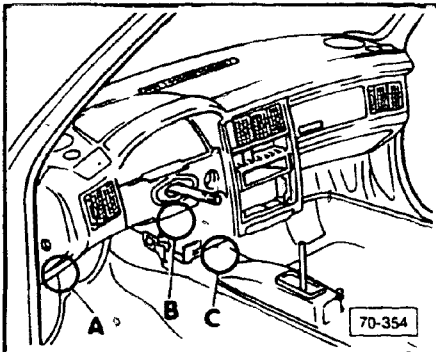


- remove shelf on driver's side
- pull shelf off retaining clip 2 and bracket 3

Note

The wiring harnesses in the instrument panel are routed in cable ducts.

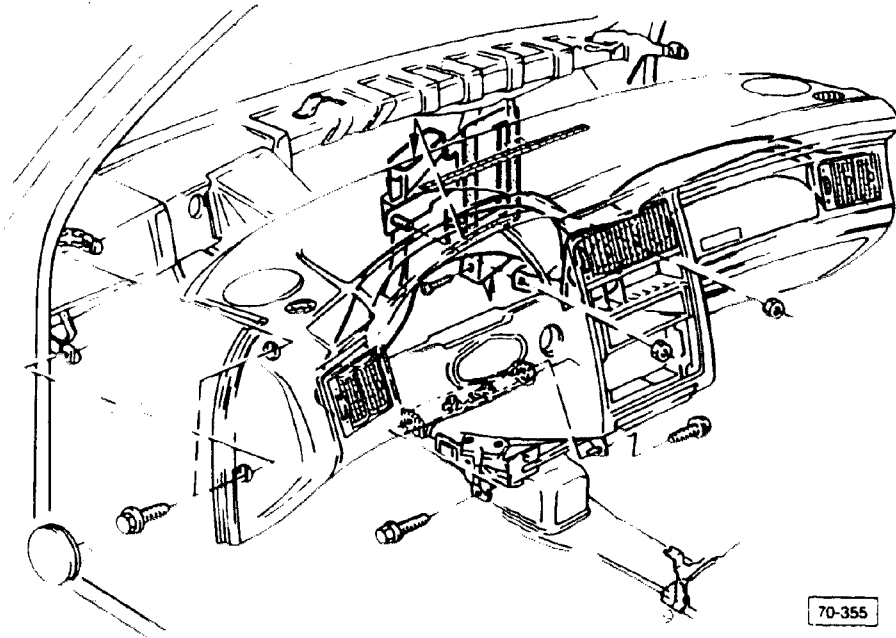
- disconnect terminal connection or pull off multi-pin connector



- A — remove wiring harness from relay carrier and relay plate with fuse box
 - ground wire
- B — wiring harness outlet from instrument panel located here
- C — terminal connections from tunnel located here. Detach connection from welded stud on cross member

Note

Switches do not have to be disconnected

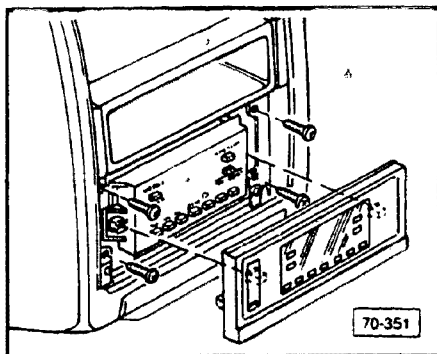


- remove cover caps and take off screws
- remove nuts from heater housing
- remove Phillips screw from defroster duct
- push-up defroster vent duct connector slightly, and carefully pull away from instrument panel

Instrument panel, installing

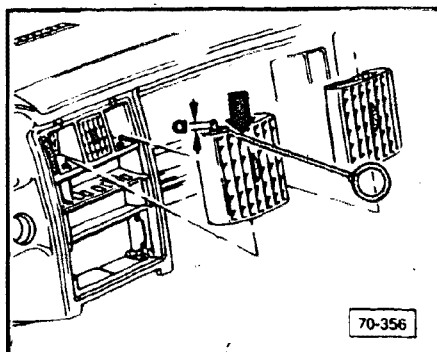
Install all components in reverse order, noting the following:

- push hose from defroster duct up and into blower nozzles
 - ensure secure fit
- keeping side and bottom mounting screws loose, adjust gap between instrument panel and windshield to approximately 7.0 mm (9/32 in.)
- close both front doors
- ensure retaining tabs of trim panel fit behind edge of housing
- adjust instrument panel to same height as door trim panels
 - with doors closed
- tighten instrument panel mounting screws
 - 5 Nm (3.7 ft lb)

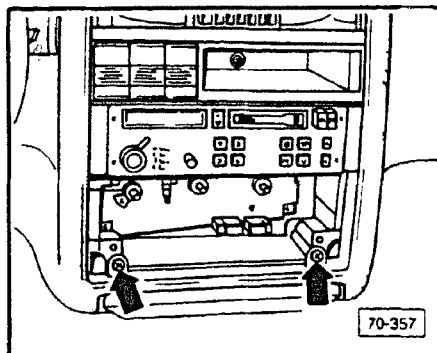


Instrument panel center section, removing

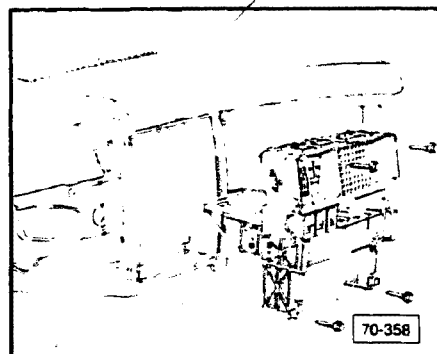
- remove trim



- pull out swivel fittings on left and right with bent wire (arrow)
 - a = 3-4 mm (1/8-5/32 in)
- insert tool at the top to the right or left of the center section and behind the swivel fitting housing edge



- remove Phillips screws (arrows) and press ashtray down slightly



- unscrew center section and remove
- detach connector from switch or radio

Instrument panel center section, installing

Reinstall all components in reverse order of removal.

CAUTION

Before starting work, disconnect battery ground strap.

CAUTION

Read all warning labels and cautions before proceeding with repairs.

CAUTION

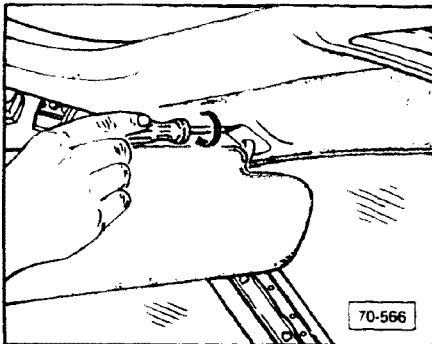
When using hot air blower, do not heat roof to over 100°C (212°F), otherwise paint will be damaged.

Tools required

- wallpaper roller
- toothed trowel
- utility knife with trapezoidal blade
- hot air blower

Materials required

- adhesive AKL 407 000 05



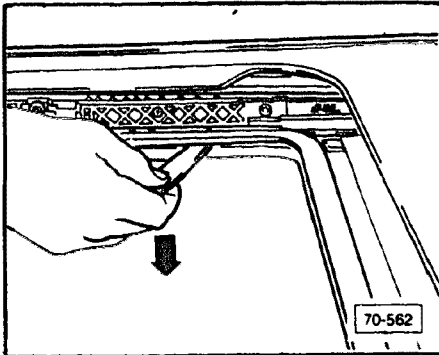
Headliner, removing

Note

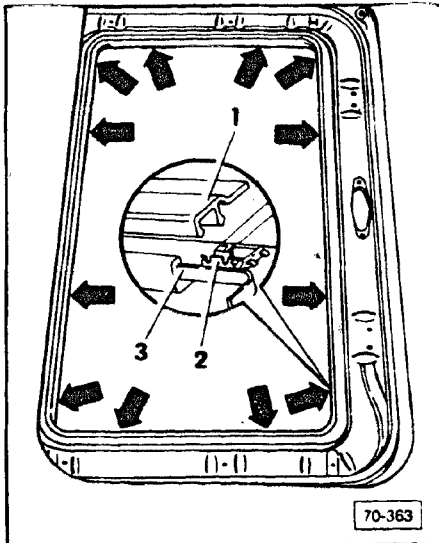
The bonded headliner cannot be removed without being destroyed

Since the strength of the roof of vehicles with sunroof is reinforced with the water tray, the headlining does not need to be cut into strips

- remove headlining from front up to sunroof opening, from below
 - heat up adhesive between headlining and plenum with hot air blower
 - to maximum 100°C (212°F)
 - remove headlining from roof
 - remove A, B, C-pillar trim, roof frame trim
 - remove sunroof completely (see Repair Group 60), including guide profile
 - remove beading between windshield and headliner
 - remove beading between rear window and headliner
-
- pry out caps for both sunvisor brackets and screwdriver
 - remove sunvisors and brackets (arrows)
 - remove interior light
 - remove assist handles
 - pull out terminal for interior light



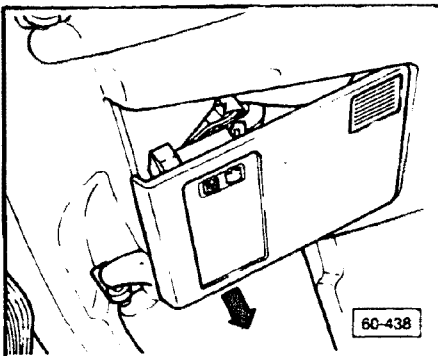
- remove plastic frame for sunroof opening
 - use plastic wedge (as shown)
- press headlining down (arrow)



- remove cover frame 1 for sunroof cutout from top of clips 2 (arrows)
 - note reinforcement in headlining 3
- pull headlining up to sunroof cutout

Note

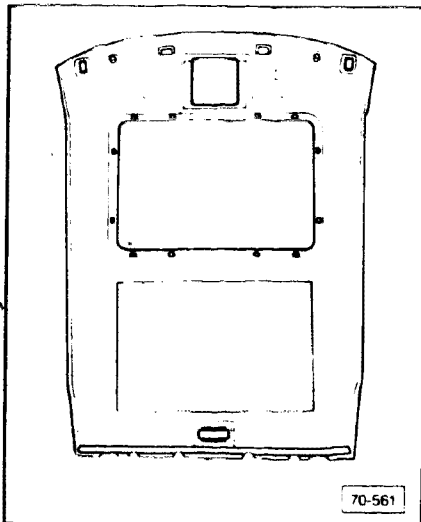
Headlining is glued **only** in area of water tray.



- pry off cover for cable drive
- unplug electrical connectors, remove cover (arrow)
- pull down headlining up to sunroof opening

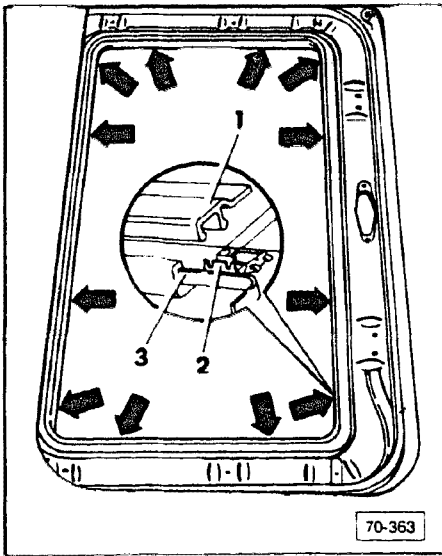
Before starting installation of new headliner, note the following:

- install headliner at room temperature of at least 20 °C (68°F)
- if necessary, warmup adhesive cartridge in hot water
- adhesive is applied to thickness of 2.3 mm (1/8 in.)
- shorten tip of adhesive cartridge to half length and cut off at angle



Headliner, installing

- fold down front passenger seat backrest
- guide replacement headlining in through open rear lid
- apply adhesive material to headlining in parallel runs with toothed trowel
- allow approximately 30 minutes before installing headliner to roof
 - if installation is delayed, adhesive must be scraped off and reapplied later
- remove excess adhesive immediately with water
 - remove partially dried adhesive with 3M® General Purpose Adhesive Cleaner or equivalent
 - fully hardened adhesive **cannot** be removed
- immediately before bonding headlining, heat adhesive from distance of 200-300 mm (8-12 in.) to approximately 60°C (140°F)
- guide headlining first on top over both C-pillar trim panels
- fasten headlining in front lightly with sunvisor brackets
- position headlining toward sunroof cutout, and press on completely



- insert cover frame in sunroof cutout
- roll the headlining onto the roof with a wallpaper roller — beginning in the center of the roof or water tray and work outward (arrows)
- mount interior equipment
- reconnect battery groundstrap