VOLVO

Service Manual

Fault Tracing

Repairs

Maintenance

Section 8 (85-89)

Body Equipment

480

1986-19..

red480gt

Volvo passenger cars are sold in different variants adapted to the specific requirements of the various countries. This market adaptation is based on such things as legal regulations, tax limitations and specific wishes of the market concerned.

For this reason illustrations and text may appear in this Service manual which are not relevant to the cars in your own country.

Contents

Alphabetical index on page 44 →

	Page	Operation
Group 85 Interior		
Trim panels	2	*A1-A9*
— Door trim panels	2	*A1-A2*
— Side trim panels	3	*A3-A4*
— Rear wall trim panel	3	*A5*
— A, B and C-pillar trim panels	3	*A6-A8*
— Sill trim panel	4	*A9*
Front seats		
— Exploded view drawing	5	—
— Parts, removal/fitting	6	*B1-B21*
Rear seats, parts, removal/fitting	11	*C1-C9*
Headlining, removal/fitting	13	*D1-D5*
Carpeting, removal/fitting	14	*E1-E3*
Group 86 Bumpers		
Front bumper: removal/disassembly/assembly/fitting	15	*F1-F3*
Rear bumper: removal/disassembly/assembly/fitting	16	*G1-G5*
Group 87 Heating and ventilation		
General	18	*I1-I2*
Checking the heating system	19	*I3*
Heater assembly, removal/fitting	21	*K1-K4*
Heater control panels, exploded view drawing	22	—
Heater control panel and operating cables, removal/fitting	23	*L1-L6*
Heater unit, exploded view drawing	25	—
Heater radiator, removal/fitting	26	*M1-M4*
Booster fan assembly, removal/fitting	27	*N1-N5*
Regulating valves in heater unit, removal/fitting	28	*O1-O4*
Vacuum diaphragm units, removal/fitting	29	*P1-P2*
Air inlets/ducts, removal/fitting	30	*Q1-Q3*
Group 88 Interior fittings		
Dashboard, exploded view drawing	31	—
Dashboard, removal/fitting	32	*R1-R14*
Dashboard, transferring parts	35	*S1-S4*
Heater trunking behind dashboard, exploded view drawing	36	—
Tunnel console, removal/fitting, transferring parts	37	*T1-T4*
Lockable console between rear seats, removal/fitting	38	*U1-U3*
Front seat belt, removal/fitting	39	*V1-V3*
Rear seat belt, removal/fitting	40	*V4-V7*
Group 89 Miscellaneous		
Hinged fuel filler cap, removal/fitting	41	*W1-W2*
Remote control cable, fuel filler cap/tailgate, removal/fitting	42	*X1-X5*

Order number: TP 35415/1

We reserve the right to make alterations

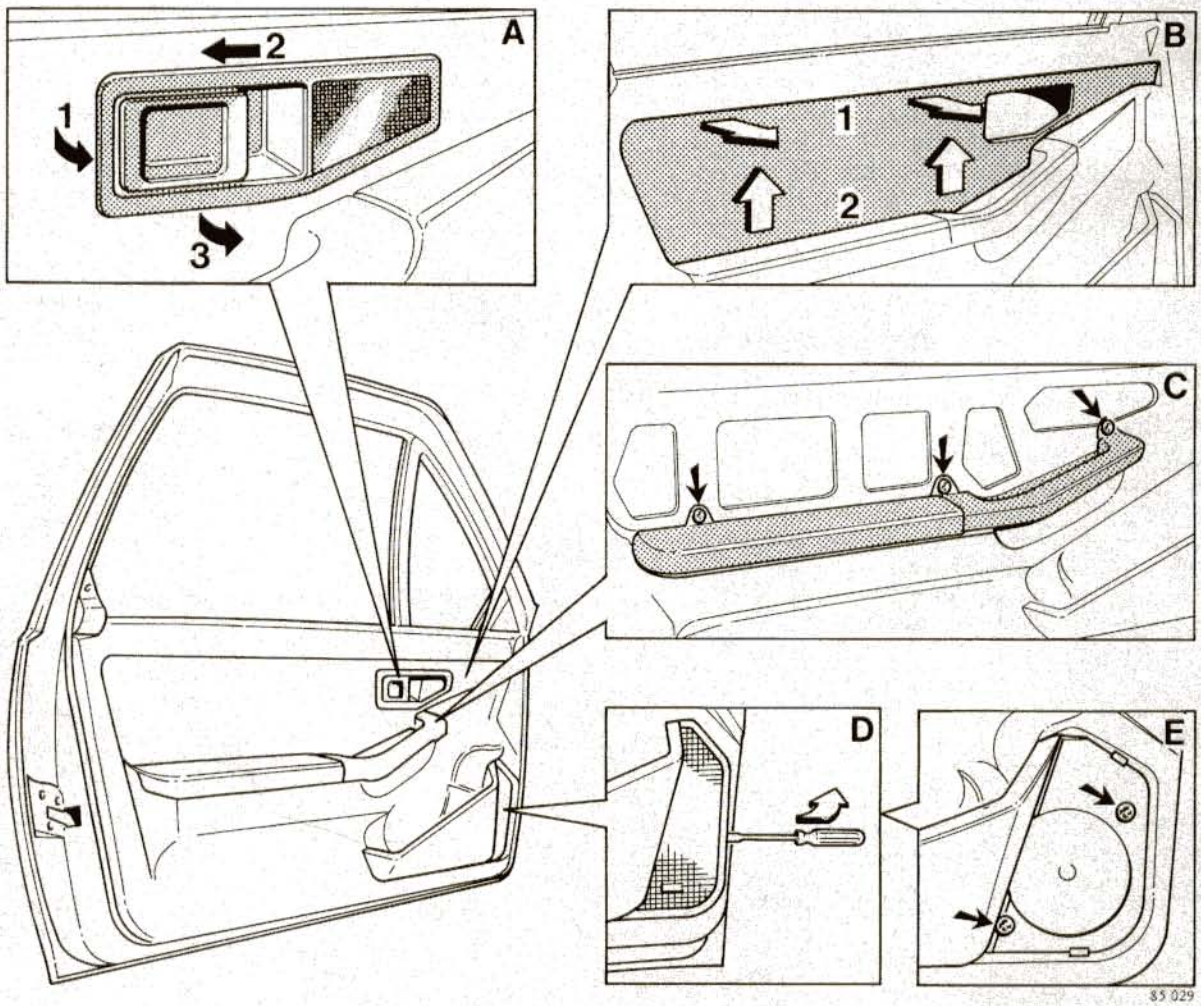
Group 85. Interior

A. Trim panels

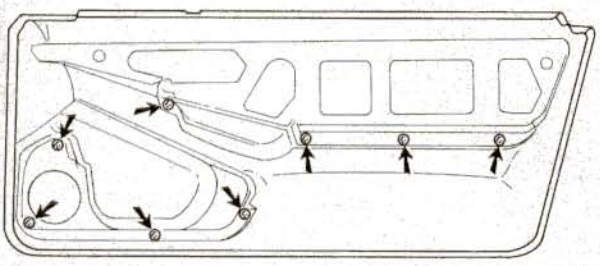
A1

Removing/fitting a door trim panel

Carry out Operation *A* to *E* as shown in the drawings.
Take the trim panel off the door.

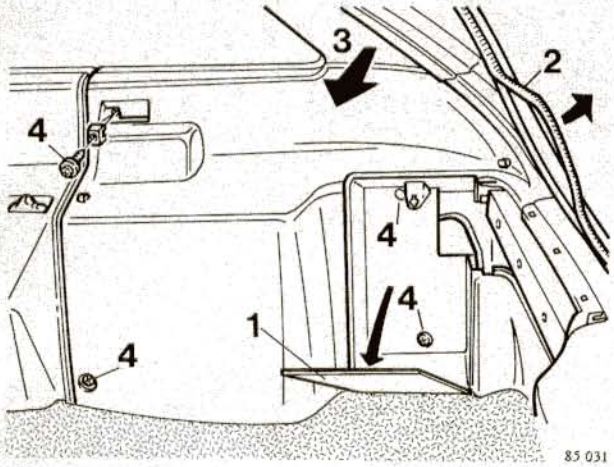


A2



Remove the armrest and door bin

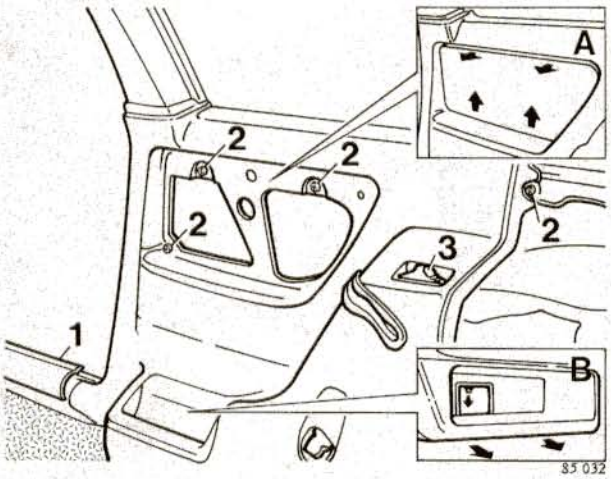
Remove the screws at the rear of the trim panel.
Take the armrest and/or door bin off the trim panel.



A3

Renew the boot side trim panel

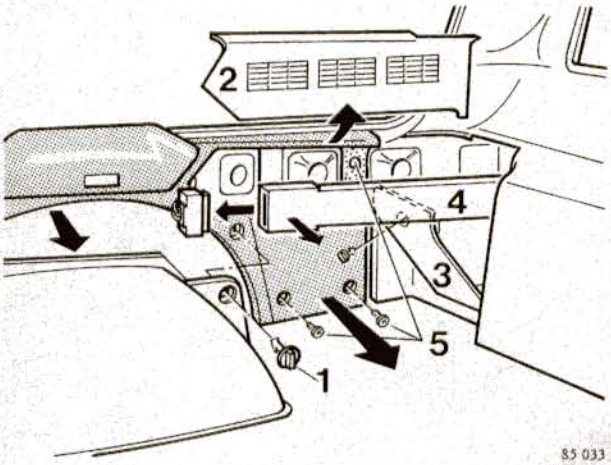
Remove the floor mat.
Remove the lens from the rear light unit.
Open the side panel hinged cover (1).
Partly release the tailgate weatherseal (2).
Remove the C-pillar trim panel (3).
Remove the screws (4).
Unhook the seat belt webbing and remove the trim panel; note the retaining clip.



A4

Renew the rear compartment side trim panel

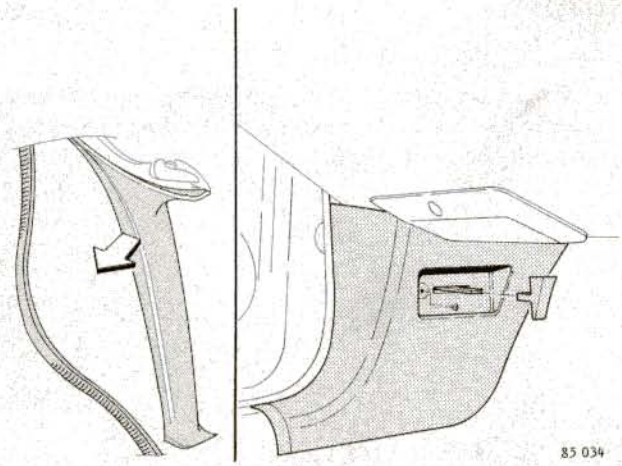
Remove the side trim panel from the boot.
Remove the seat backrest and cushion.
Remove the B-pillar trim panel
Release the sill trim panel (1) at the rear end.
Take the trim panel off the side panel (A).
Take the door bin out of the trim panel (B).
Remove the screws (2).
Remove the backrest release knob (3)
Remove the seat belt attachment.
Take the belt out of the trim panel.
Lift the trim panel up and remove.



A5

Renew the rear wall trim panel

Remove the spare wheel cover (two bayonet catches (1)).
Partly release the tailgate weatherseal.
Remove the lenses from the rear light units (2).
Open the side panel covers (3).
Remove the bulb holders (4).
Remove the screws (5) at left and right and take the trim panel out of the boot.

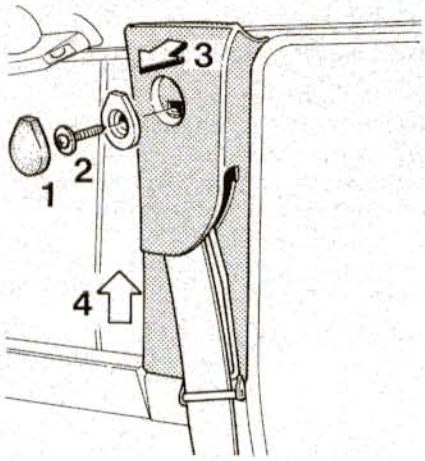


A6

Renew the A-pillar trim panels

Above the dashboard:
Partly release the door weatherseal.
Pull the trim panel away from the A-pillar.

Under the dashboard:
Remove at the left the bonnet release knob (1).
Remove the screw (2).
Pull the trim panel away from the A-pillar; note the clips at the right-hand side.

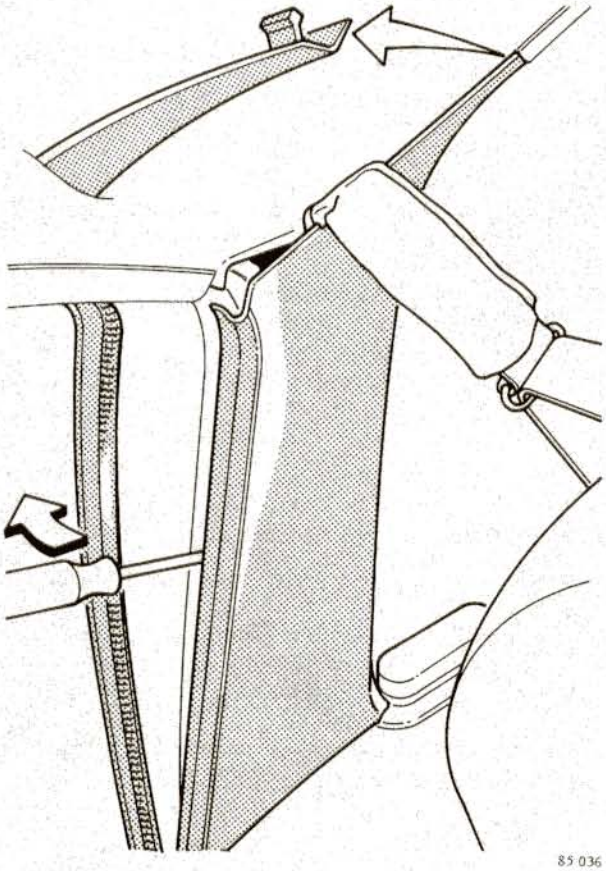


85 035

A7

Renew the B-pillar trim panel

Remove the cap (1) and screw (2).
Pull the trim panel away from the B-pillar: first at the top (3) and then at the bottom (4).
Remove the seat belt upper anchorage bolt.
Take the belt out of the trim panel.



85 036

A8

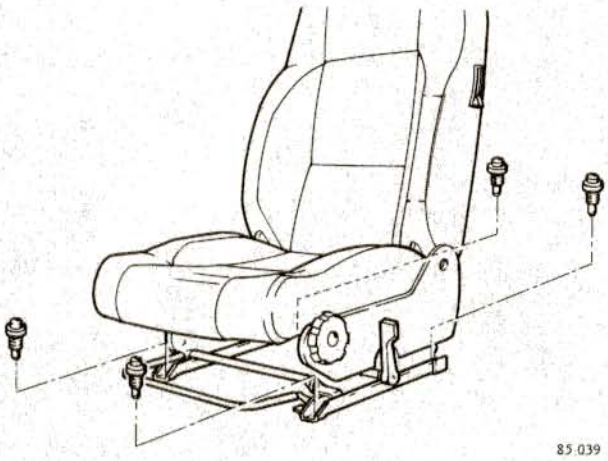
Renew the C-pillar trim panel

Partly release the tailgate weatherseal.
Press the trim panel off the C-pillar using a screwdriver (3 snap-fasteners).

A9

Renew the sill trim panel

B. Front seats, removing/fitting parts

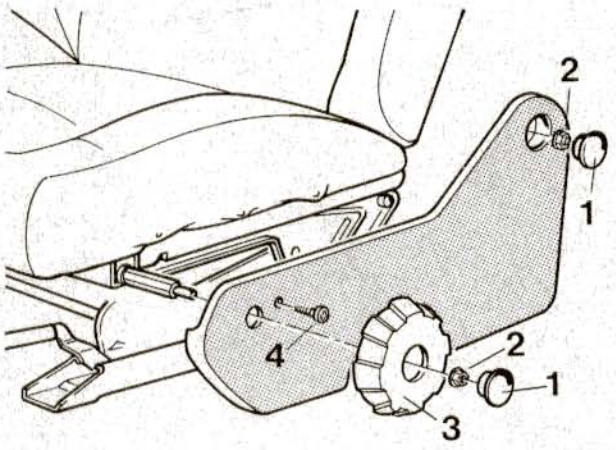


85 039

B1

Remove the front seat

Remove the bolts.
Disconnect the wiring at the connectors.
Remove the seat.

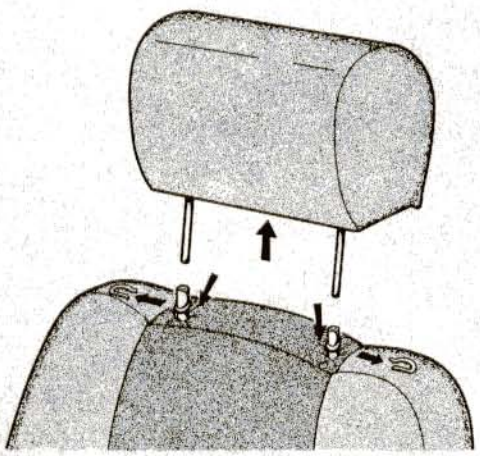


85 040

B2

Remove the adjusting mechanism cover panel

Remove the plugs from the handwheel and the cover panel (1).
Remove the lock nuts (2) with a socket-head screwdriver and take off the handwheel (3).
Remove the screw (4).
Remove the cover panel from the seat adjusting mechanism.



85 041

B3

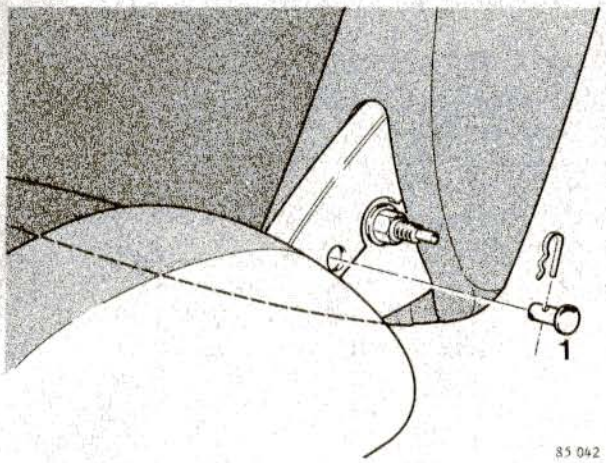
Remove the head restraint

Press the upholstery down, remove the circlips and pull the head restraint up and out of the seat backrest.

B4

Fit the head restraint

Locate the circlips and slide the head restraint into the seat backrest.

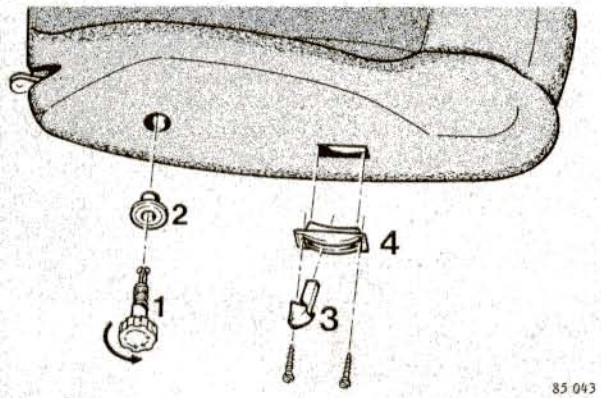


85 042

B5

Remove the seat backrest

Rake the backrest until the clevis pins (1) can be reached at left and right.
Release the two staples on the lower edge of the backrest.
Release the staple holding the elastic.
Disconnect the seat heating wiring at the connector.
Remove the hairpin clips and clevis pins and lift the backrest off the cushion.

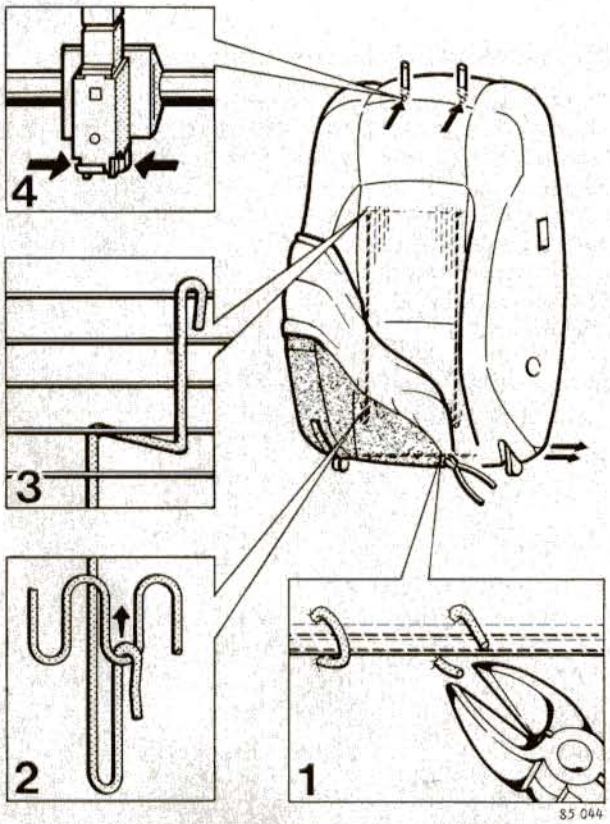


85 043

B6

Remove the lumbar support handwheel and the backrest release knob

Turn the lumbar support handwheel (1) counter-clockwise until it rotates freely and then pull it out of the backrest.
Remove the protective grommet (2) from the backrest.
Pull off the backrest release knob (3) and remove the guide (4).



85 044

B7

Remove the backrest upholstery

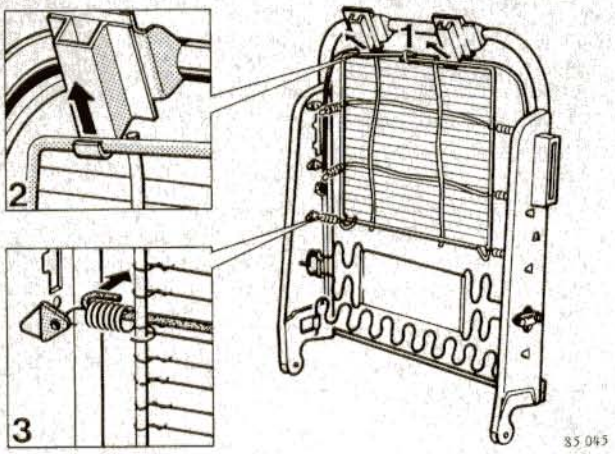
Cut through the staples on the backrest lower edge and pull the two rods out of the upholstery (1).
Slide the upholstery upwards.
Press the rods out of the cross-spring (2) at the bottom and hook them out of the backrest at the top (3).
Note: the loops of the cross-spring, to which the rods are attached, are bent at an angle to the rear.

Press in the clips (4) of the head restraint guide and remove the backrest upholstery together with the head restraint upholstery from the seat.

B8

Remove the heating element and padding

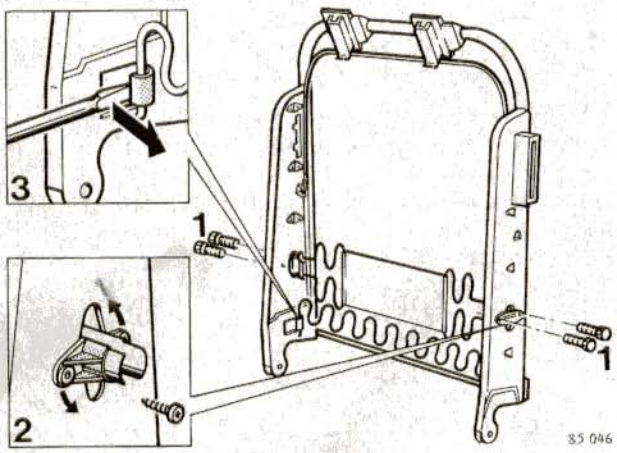
Release the staple at the top end and remove the heating element from the padding.
Cut the padding free at the lower end and take it off the frame.



B9

Remove the back pad

Release the operating cable from the back pad (cut the staple at 1).
Lift the rod out of the two retaining strips (2) at the top end.
Unhook the springs at the sides and remove the back pad from the backrest (3).



B10

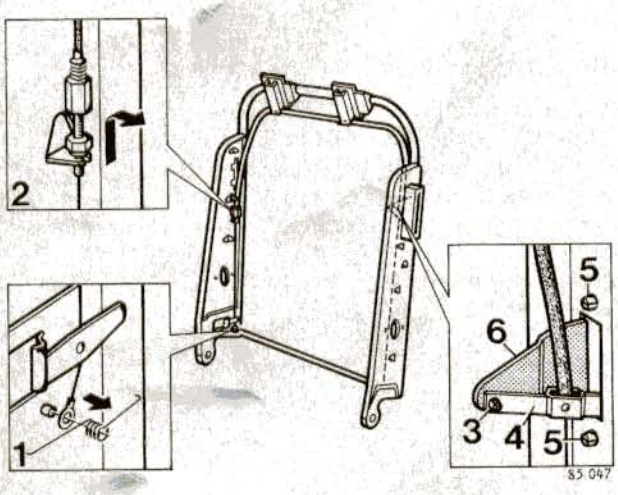
Remove the lumbar support

Remove the screws at left and right (1).
Rotate the two brackets (2) a quarter turn and remove them from the backrest frame.

B11

Remove the lower spring

Bend open the retaining strips (3) at left and right.
Remove the spring.

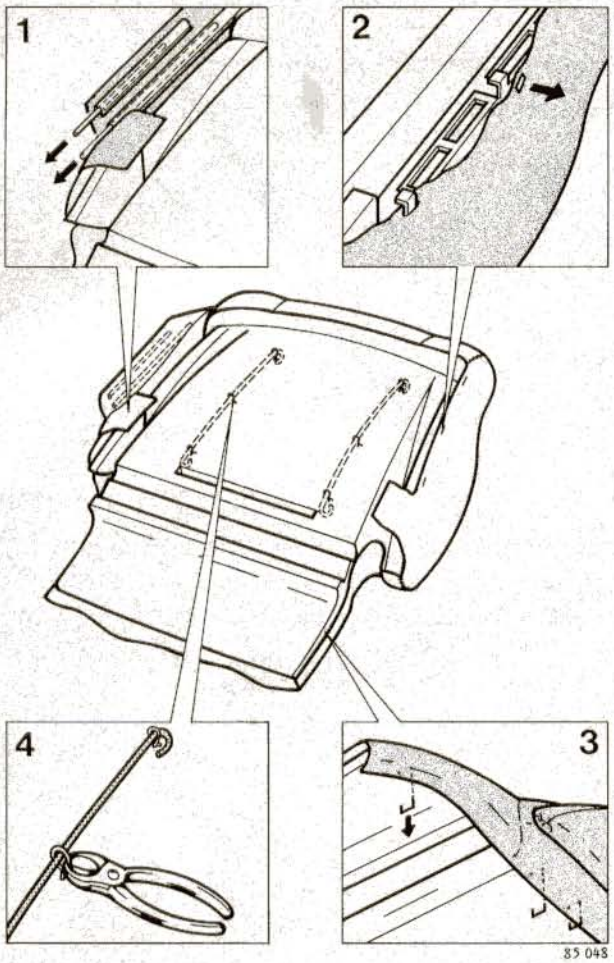


B12

Remove the backrest locking mechanism

Remove the spring (1) from the lower edge (left and right) and disconnect the cable from the pin.
Release the adjusting mechanism (2) from the bracket.
Press in the clip (3) and remove the cable together with the adjusting mechanism and the operating arm (4) from the backrest.
Press in the clips (5) and remove the bracket (6) from the backrest.

Important: when assembling, adjust the cable so that it is just tension-free.



85 048

B13

Remove the seat cushion upholstery and padding

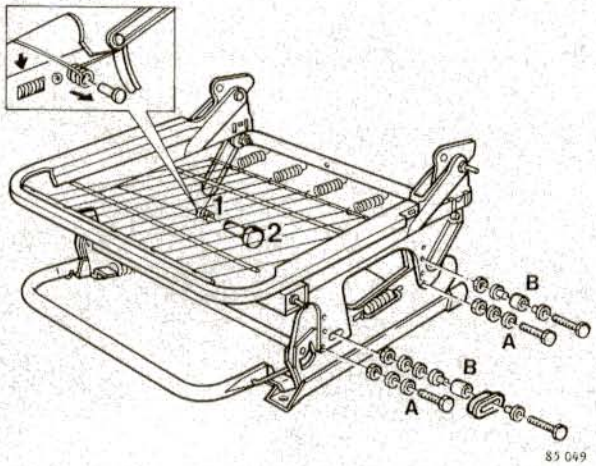
Cut through the staples all round and remove the two rods at the side from the seat belt lock (1).
Remove the clamps at the front end.
Release the upholstery from the lugs (2) and remove the upholstery together with the padding from the frame.

B14

Remove the upholstery and heating element from the padding

Remove the staples at the rear end and fold the sides of the upholstery inwards (3).
Cut through the guide eyes (4) of the pull rods and remove the upholstery and heating element from the padding.

Note: the heating element can be removed from the rear of the cushion without removing or disassembling the seat; release the upholstery at the rear end and remove the staples.



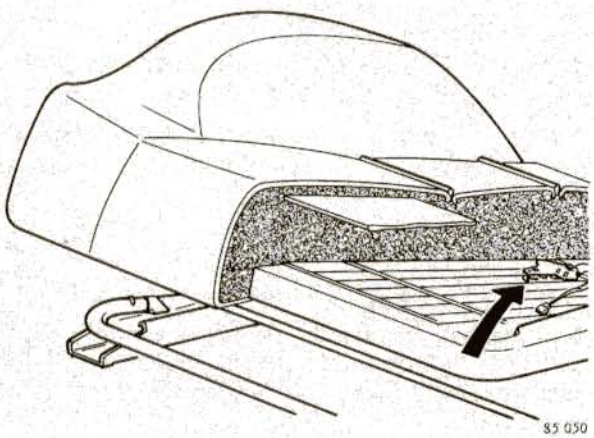
85 049

B15

Remove the seat frame upper section

Unhook the springs (1) at left and right.
Remove the bolts and fitted sleeves.
A Seat **without** height adjustment.
B Seat **with** height adjustment.

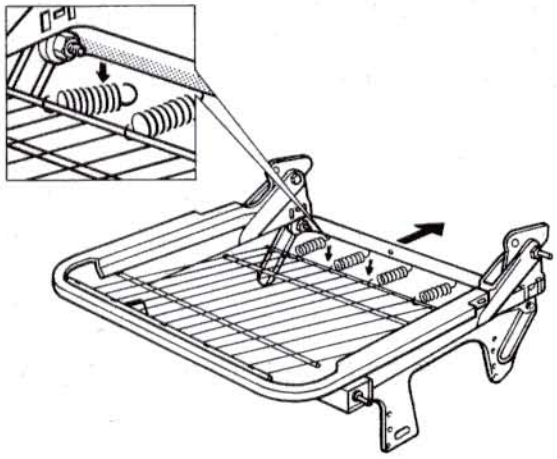
Tap the plastic plugs (2) out of the frame.
Remove the seat frame upper section.
Important: the upper section complete with adjusting mechanism is set at the factory and must always be renewed as a **complete** unit.


85 050

B16

Remove the seat belt pressure switch

The switch is clamped under the spring mat.

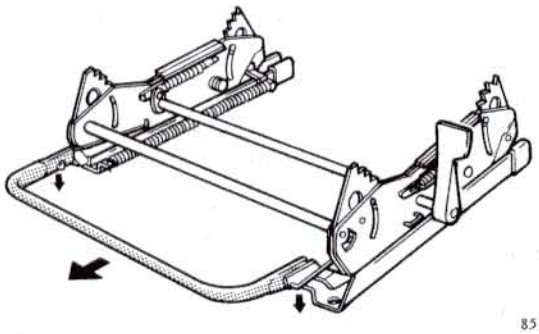


85 051

B17

Remove the seat springs

Remove the rod from the clamps at the front end and unhook the springs at the rear.

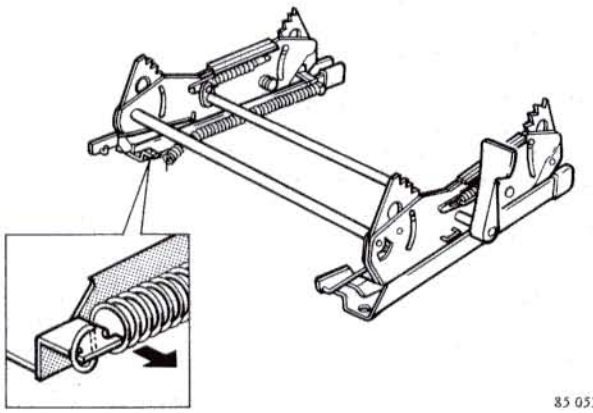


85 052

B18

Remove the front handle from the cushion

Press the springs down at left and right.
Tap the handle forwards and off the frame.

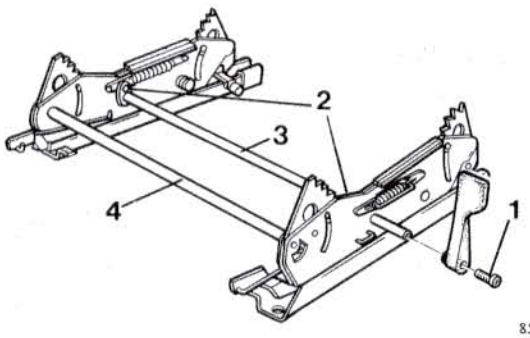


85 053

B19

Remove the tension spring from the seat slides

Hook the spring out of the slide.



85 054

B20

Remove the height adjustment operating handle and rods (driver's seat)

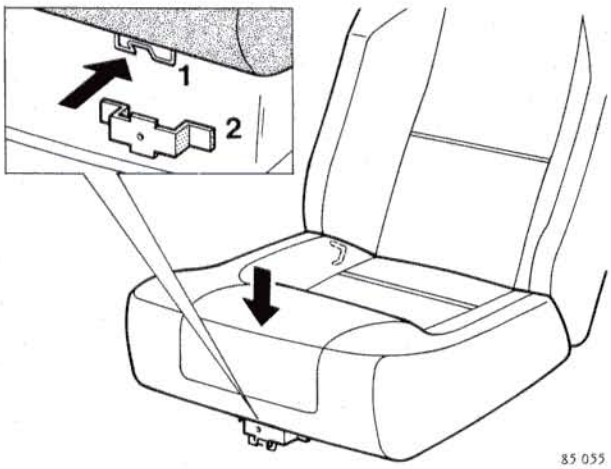
Remove the screw (1) and take the handle off the seat.
Remove the clip (2) at left and right and take the rods (3) and (4) off the seat.

B21

Assemble and fit the seat

The seat (parts) removal operations also indicate the points requiring special attention when fitting. Fitting is completed in reverse order to removal.

C. Rear seats, removing and fitting parts



85 055

C1

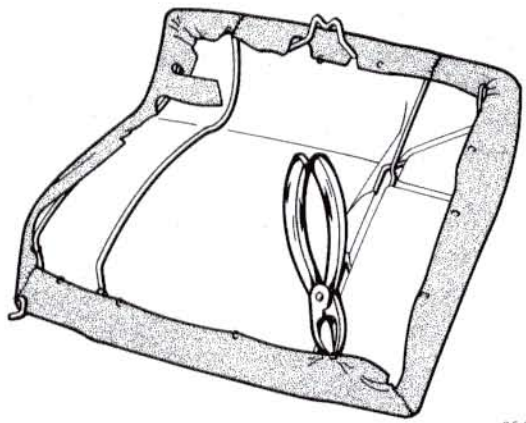
Remove the rear seat cushion

Press the cushion down.
Press the catch (1) rearwards and pull the cushion up.
Unhook the cushion at the rear end.

C2

Fit the rear seat cushion

Hook the cushion into the bracket at the rear end.
Press the cushion down at the front end and locate the catch behind the bracket (2).

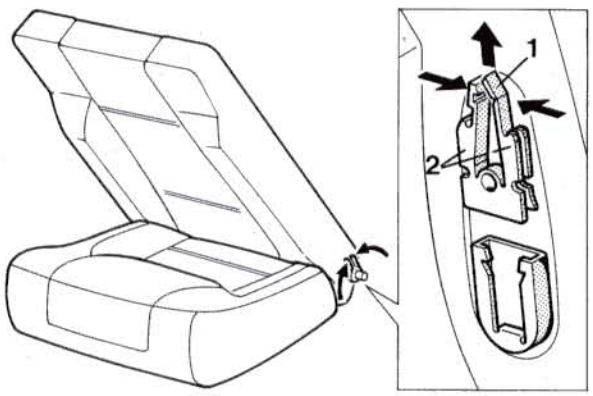


85 056

C3

Remove the cushion upholstery and padding

Cut through the staples.
Release the rods.
Fold the upholstery to one side.
Release the hooks at the top end.
Remove the upholstery.
Take the padding off the wire frame.

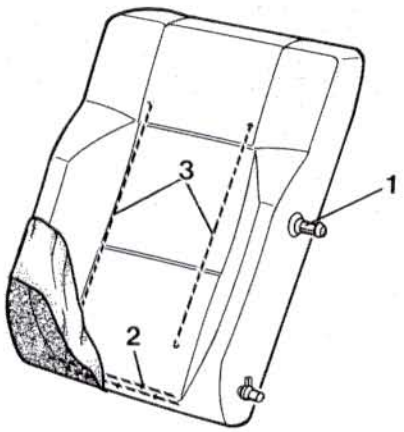


85 057

C4

Remove the rear seat backrest

Tilt the backrest forwards to an angle of about 45°.
Move the locking device (1) upwards.
Press the arms (2) inwards and at the same time pull up the backrest.
Take the backrest out of the hinge point at the other side.

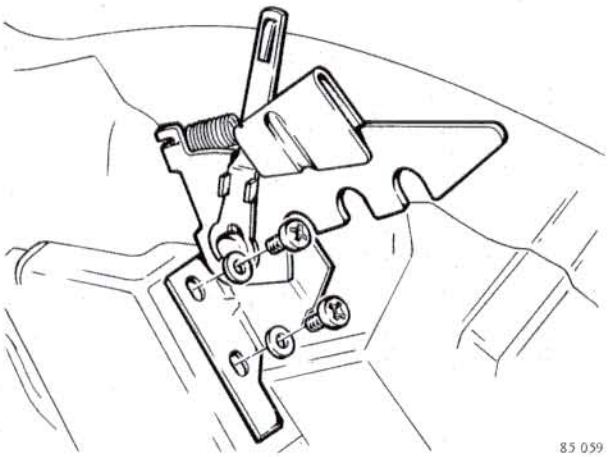


85 058

C5

Remove the backrest upholstery

Unscrew the lock-pin (1) from the backrest.
Cut through the staples at the lower edge.
Remove the two small rods (2).
Pull the rods (3) out of the locking device and remove them from the upholstery.
Slide the upholstery off the backrest.
Remove the padding.

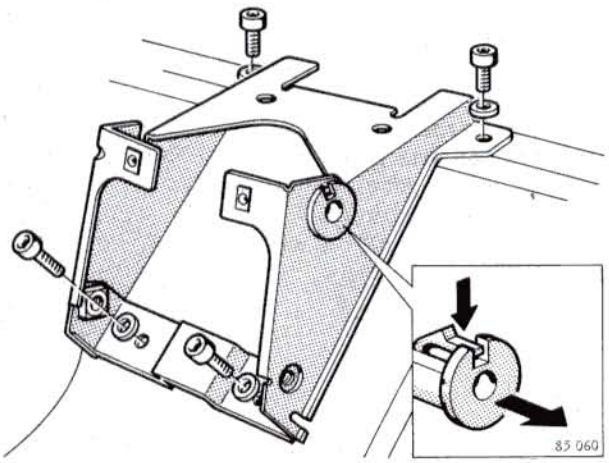


85 059

C6

Remove the backrest locking device

First remove the side panel.
Remove the screws.



85 060

C7

Remove the backrest centre attachment bracket

Remove both backrests.
Remove the bolts.

C8

Renew the plastic hinge

Press the tab inwards and pull the bush out of the hole.

C9

Fitting

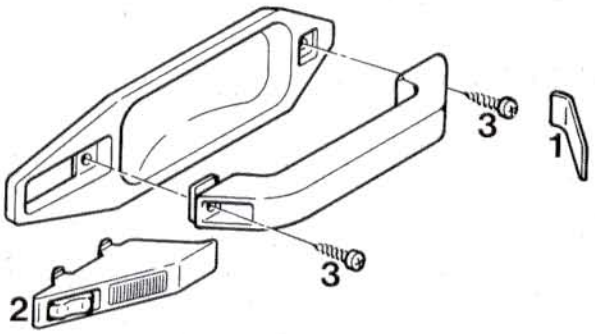
The rear seats (rear seat parts) are fitted in reverse order to removal.

D. Removing/fitting the headlining

D1

Remove:

- A, B and C-pillar trim panels
- Interior light

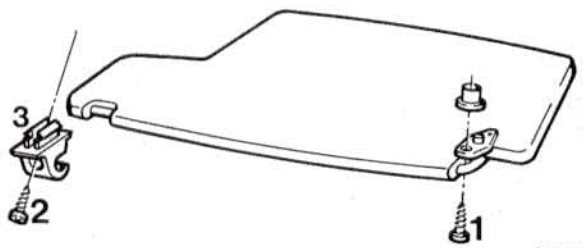


85 061

D2

Remove the grab handles

Remove the cover and lens (1) and the light fitting (2). Release the two screws (3) and remove the grab handle and baseplate from the roof.

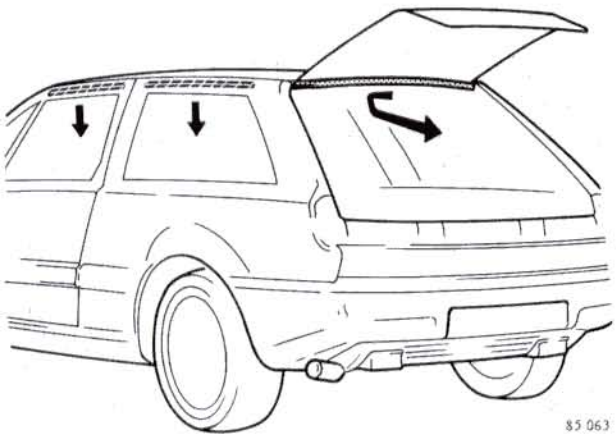


85 062

D3

Remove the sun visors

Release the screw (1) and remove the sun visor from the roof header panel.
Release the screw (2) and remove the clamp (3) using a screwdriver with a wide blade tip.

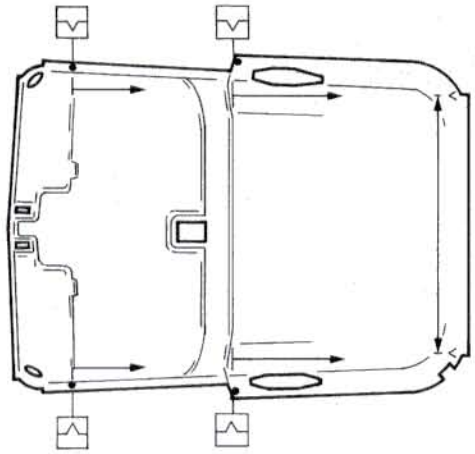


85 063

D4

Remove the headlining

Support the headlining and pull loose the headlining mounting strips above the side windows and doors. Pull the headlining forwards and out of the rear end cover moulding.
Remove the headlining via the tailgate opening.
Important: make sure that the headlining does not bend!


85 064

D5

Fit the headlining

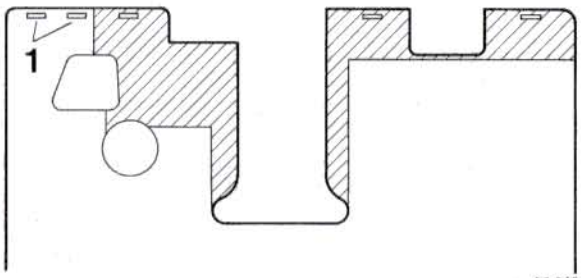
Fit the mounting strips at the marked locations.
Insert the headlining via the tailgate opening.
Slide the headlining into the rear end cover moulding.
Position the headlining at the front end and fit the sun visors.
Press the mounting strips securely into place.
Fit the A and C-pillar trim panels.
Slide the mounting strips into position and fit the B-pillar trim panel.
Fit the interior light and the grab handles.

E. Removing/fitting the carpeting

E1

Remove:

- Both front seat assemblies and the rear seat cushions.
- The tunnel console.
- The cover panels under the dashboard.
- At left and right: the sill trim panels and the panels under the A-pillars.
- The lower slide rail: remove the bolt, slip the seat belt off the slide rail and unhook the rail from the body.



85 065

E2

Remove the carpeting

Note the electric wiring.
Cut off the carpeting as shown by the hatched area in the drawing:
- at the air inlet unit: as high as possible
- at the foot pedals: in the middle between the snap fasteners.

Release the two snap fasteners (1).
Pull the carpeting out from under the side trim panels.

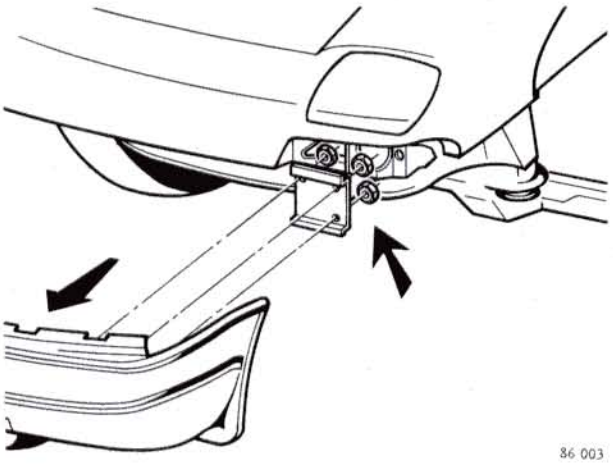
E3

Fit the carpeting

Cut the new carpeting to size, using the old carpeting as a template.
Insert the wiring for the seat heating and seat belts through the carpeting at the correct point.
Glue the carpeting in position over a width of about 5 cm at the incisions.
Close the snap fasteners and fit the parts removed under Operation *E1*.

Group 86. Bumpers

F. Front bumper: removal/disassembly/assembly/fitting



86 003

F1

Remove the front bumper

Raise the retracting headlights.
Remove the direction indicators and auxiliary driving lights at left and right.
Remove the self-tapping screws under the bumper.
Remove the nuts.
Pull the bumper forwards and out of the body.
Disconnect the wiring for the fog lights at the connector.
Release the transmitter for the ambient air temperature.
Remove the bumper from the car.

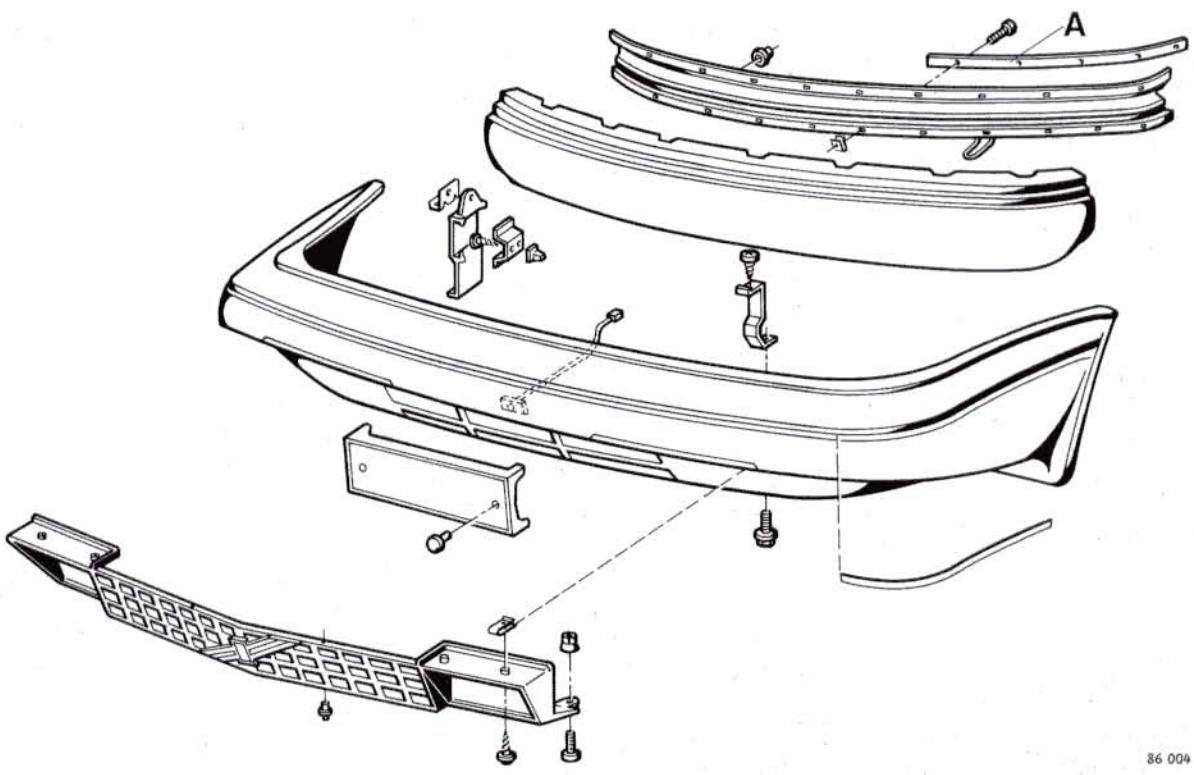
F2

Disassemble the front bumper and remove the grille

F3

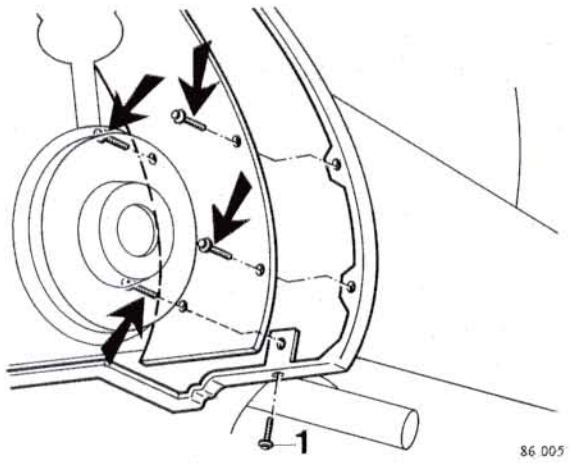
Assemble and fit the front bumper

Note the position of the strips (A).
Fitting is in reverse order to removal.
Position and secure the bumper.



86 004

G. Rear bumper: removal/disassembly/assembly/fitting

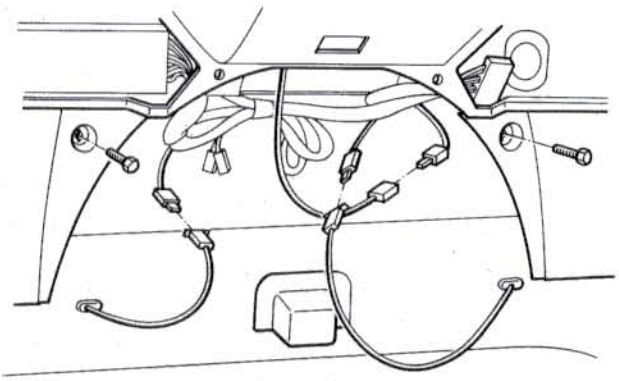


86 005

G1

Remove the the rear wheel housing liners

Release the screws.
Remove the bolt (1) and take the liner out of the wheel housing.

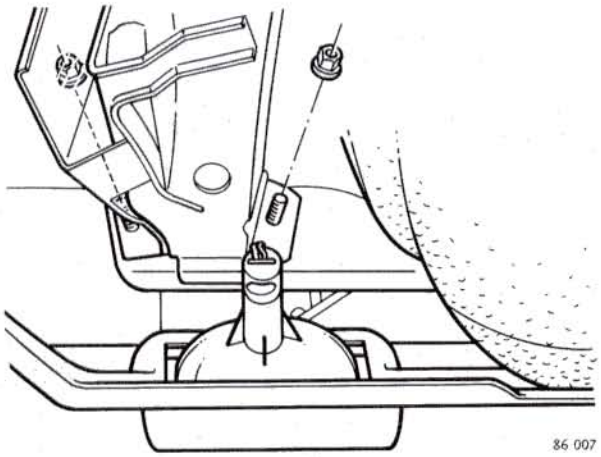


86 006

G2

Disconnect the wiring

Disconnect the wiring for the number plate light and rear fog lamps (behind the spare wheel) at the connectors.



86 007

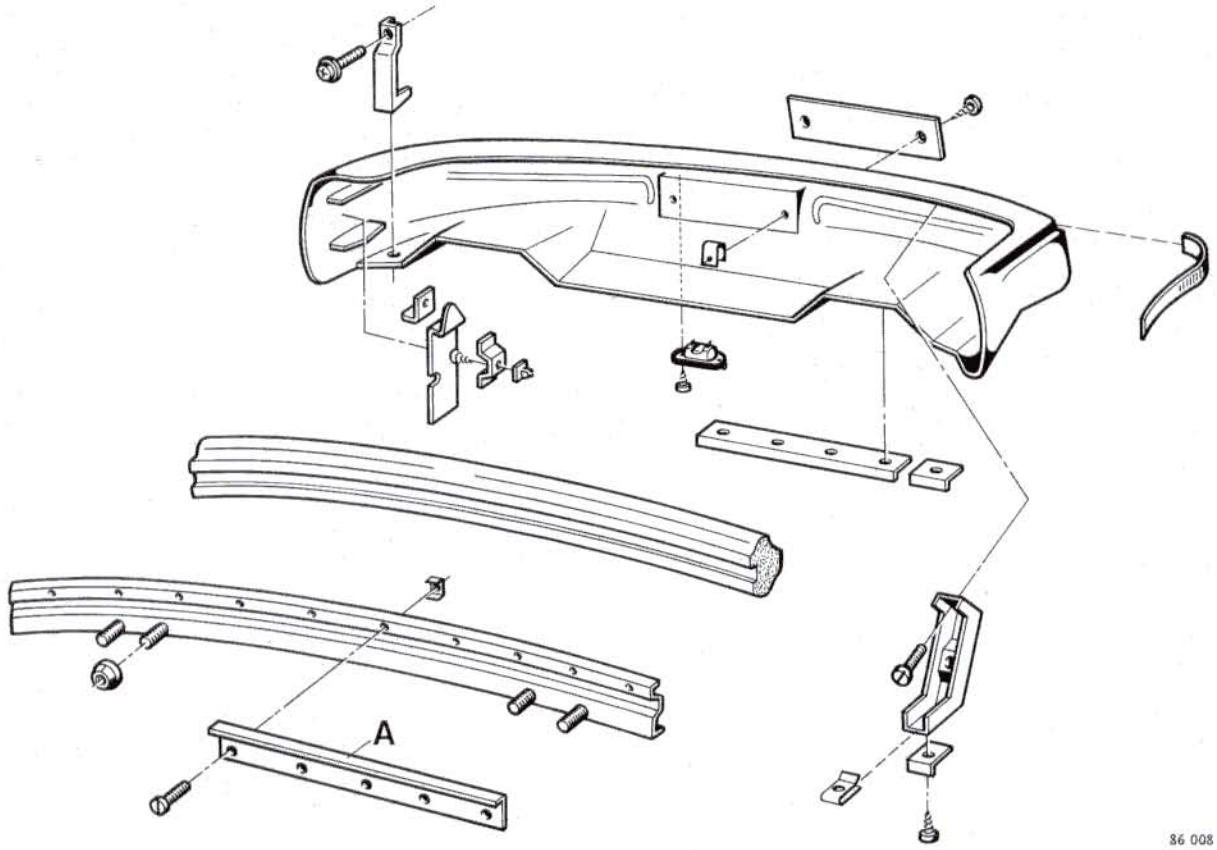
G3

Remove the bumper

Remove the nuts at left and right.
Remove the towing eye securing bolt from the bumper and take the bumper off the car.

G4

Disassemble the bumper and remove the number plate lighting



G5

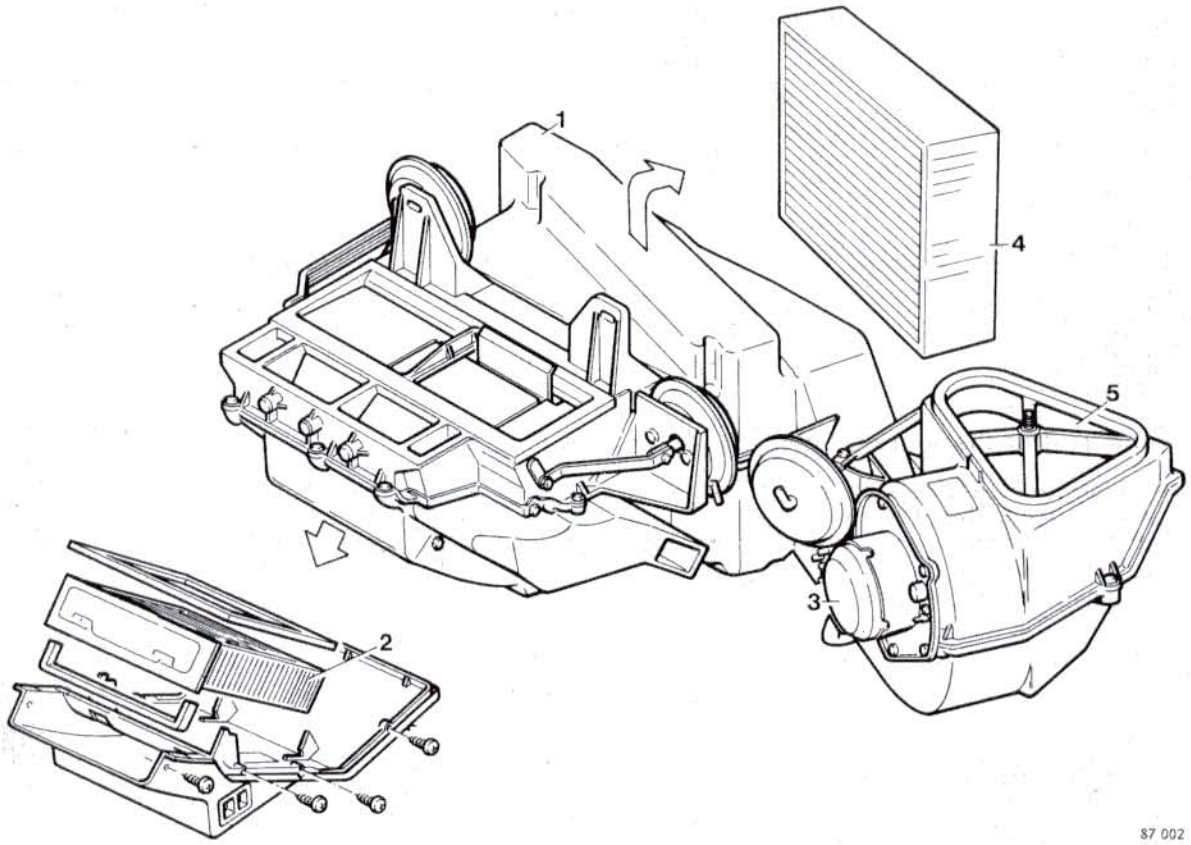
Assemble and fit the rear bumper

Note the position of the strips (A).
Fitting is in reverse order to removal.
When fitting, make sure that the wiring for the number plate lighting is not pinched off between the bumper and the body.
Position and secure the bumper.

Group 87. Heating and ventilation

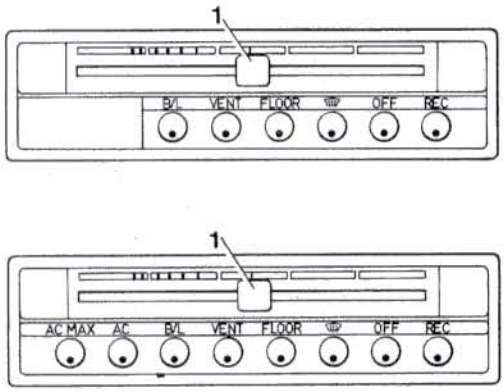
I. General

The heating system of the Volvo 480 comprises a heater housing (1) which contains the heater radiator (2), the booster fan (3) a number of regulating valves and, when the car is equipped with air-conditioning, the condensor (4).
The heater radiator, through which coolant flows constantly, is maintained at operating temperature when the engine has warmed up. The temperature in the passenger compartment is regulated by directing (part of) the inflowing air through the heater radiator.
The regulating valves which direct the air to the various inlets are vacuum operated on models which are pre-engineered for air-conditioning, and mechanically operated on other variants. In both cases the temperature control valve is mechanically operated.
A recirculation valve (5), operated with the button marked REC, can be used to recirculate 90% of the air volume already in the car mixed with 10% ventilation air from the outside; alternatively, it can be used to refresh the interior completely with ventilation air.



87 002

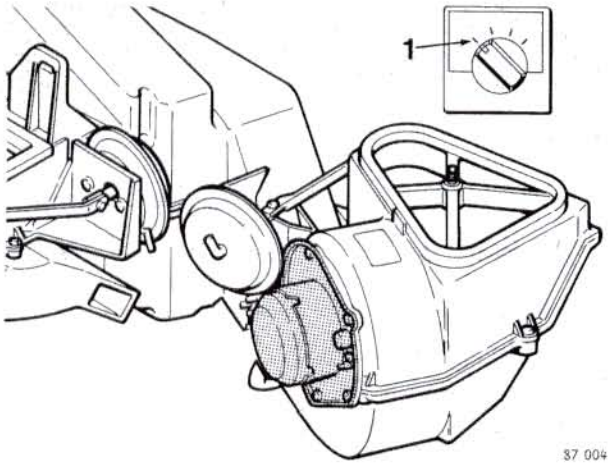
I1



87 003

Control panel (vacuum operated)

Pushing in the buttons on the dash-mounted control panel activates one or more vacuum valves in the heater unit.
Depending on the setting thus selected, the airflow is directed through the various ducts of the heater unit to one or more air inlets.
The required temperature setting is obtained by moving the temperature slide (1).



I2

The booster fan

The booster fan is located in the heater housing and has four speed settings. The rotational speed of the fan is electronically controlled and is dependent upon the setting of the booster switch and the button selection on the dash-mounted control panel.
This means that the fan will not always rotate at the speed which has been selected with the booster switch.
In the AC/MAX position the fan will always run at speed 4; when the OFF push-button is engaged the fan will always run at speed 1.

I. Checking the heating system

I3

General

The table on the following page shows through which openings and at what velocity air should flow at different settings of the control panel and the booster switch.

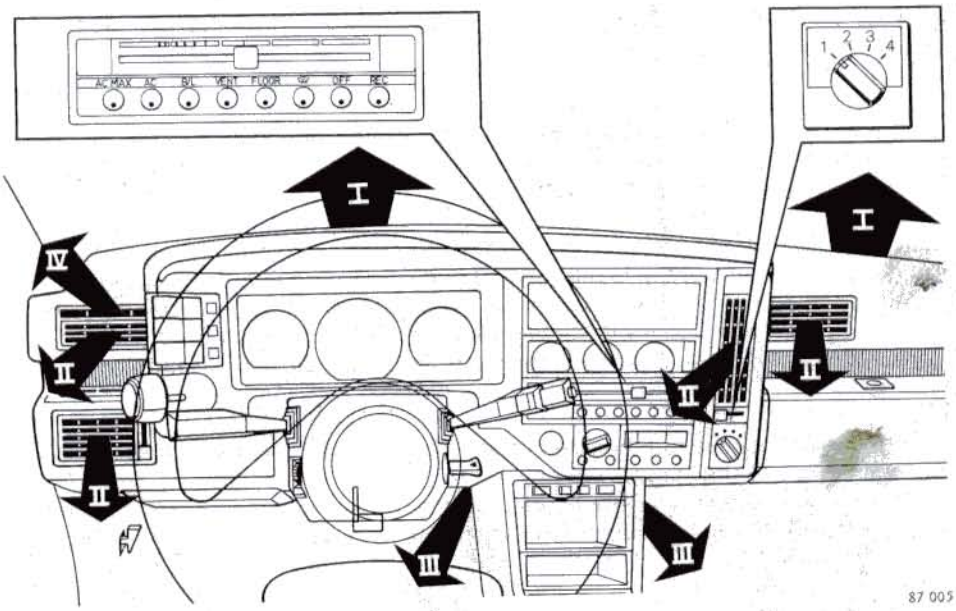
Important
- The check must be carried out **with the engine running**, otherwise no vacuum will be present.
- Switching from one position to another takes about 5 seconds.
- Open all the air inlets on the dashboard.

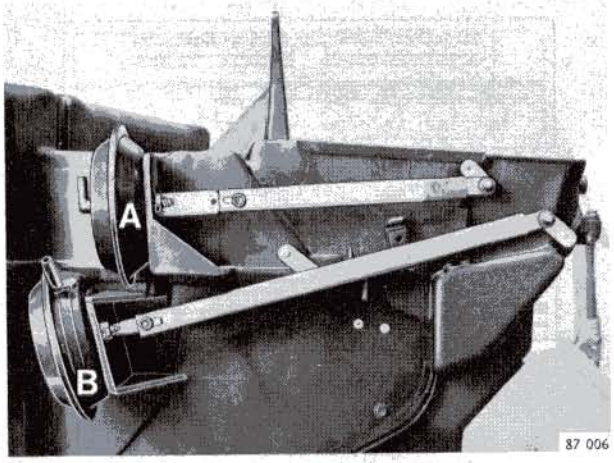
Air-conditioning
The table also includes a brief check of the functioning of the air-conditioning system in so far as this affects the operation of the heating and ventilation system. A full system check and the repair and maintenance of the air-conditioning are dealt with in a separate Service Manual. **Note** that the air-conditioning is automatically engaged when certain positions of the heating system are selected (see last column).

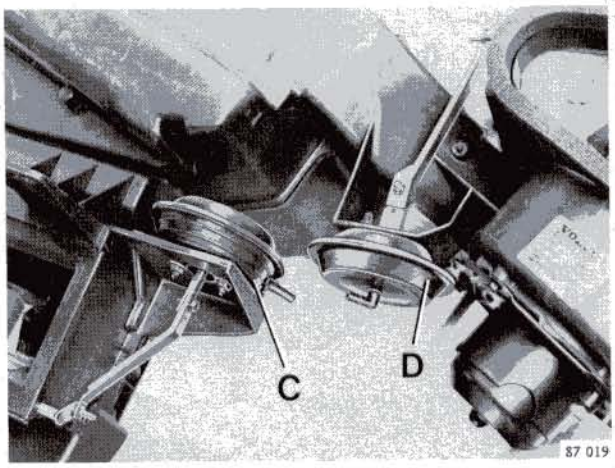
Malfunctions
In the case of a malfunction check the functioning of the vacuum valve(s) shown in the last column, the vacuum lines from the inlet manifold and the electric wiring.
The removal/fitting of the various parts of the heating system is described later in this section.
For the wiring diagrams, refer to the Repairs and maintenance Service Manual, Section 3.

Push-button setting	Airflow through openings	Booster fan speed*	Vacuum diaphragm unit(s) energized	Air-conditioning on (if fitted)
OFF (+ REC)**	I + III + IV	1	A,B and D	no
DEF	I + III + IV	1,2,3,4	A	yes
DEF + REC	I + III + IV	1,2,3,4	A and D	yes
FLOOR	III + IV	1,2,3,4	A and B	no
FLOOR + REC	III + IV	1,2,3,4	A, B and D	no
VENT	II	1,2,3,4	C	no
VENT + REC	II	1,2,3,4	C and D	no
B/L	II + III	1,2,3,4	B	yes
B/L + REC	II + III	1,2,3,4	B and D	yes
AC	II	1,2,3,4	C	yes
AC/MAX (+ REC)**	II	4	C and D	yes

* Depending upon the switch setting, the booster fan will run at one of the indicated speeds.
** REC setting is automatically engaged.





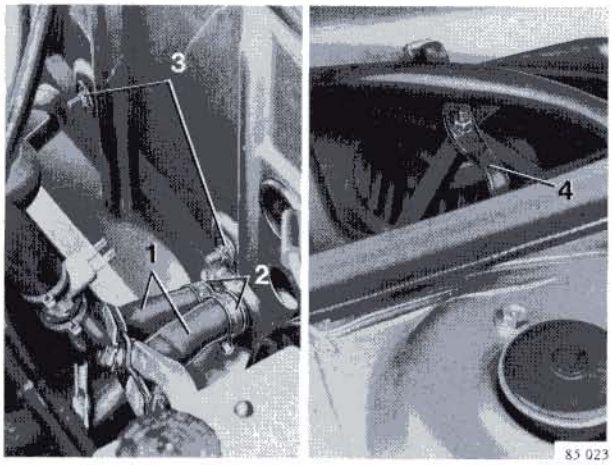


K. Removing/fitting the heater assembly

K1

Remove the dashboard

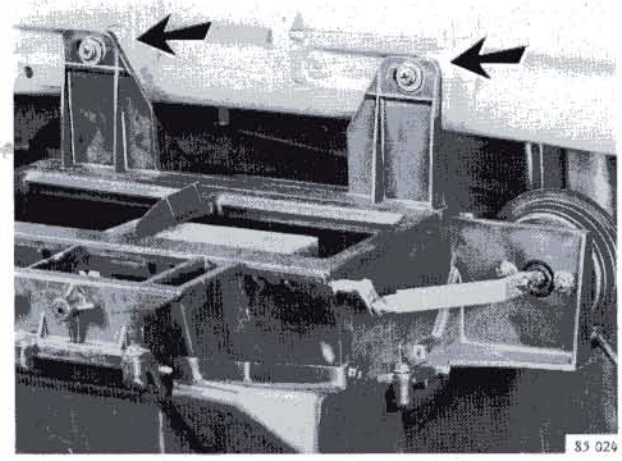
See Operations *R1-R14*.



K2

Remove the heater unit (operations in the engine compartment)

Pinch off the coolant hoses (1).
Release the hose clips (2) and disconnect the hoses from the heater radiator (collect the escaping fluid).
Remove the two nuts (3).
Remove the bracket (4) from the fan housing.



K3

Remove the heater unit (operations inside the car)

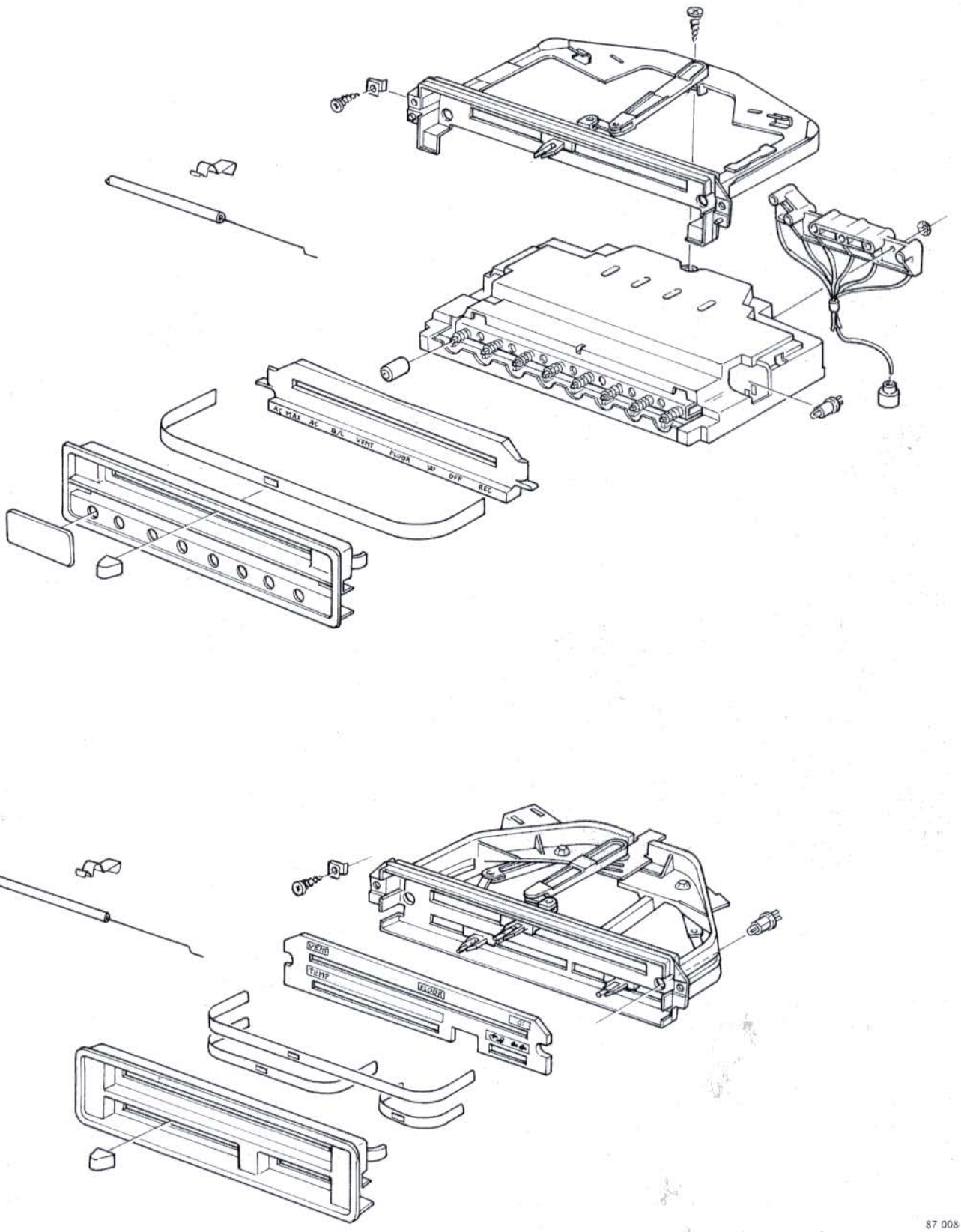
Remove the relay from the fan housing bracket.
Remove the two screws.
Lift out the heater unit.

K4

Fit the heater unit

Fitting is in reverse order to removal.

Heater control panels



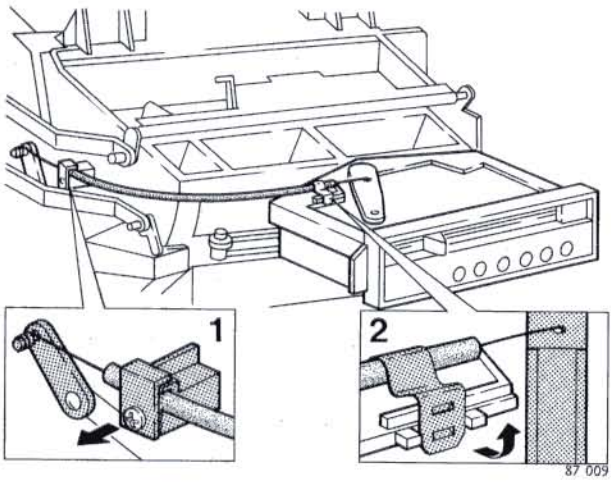
87 008

L. Removing/fitting the control panel and operating cables

L1

Preparations

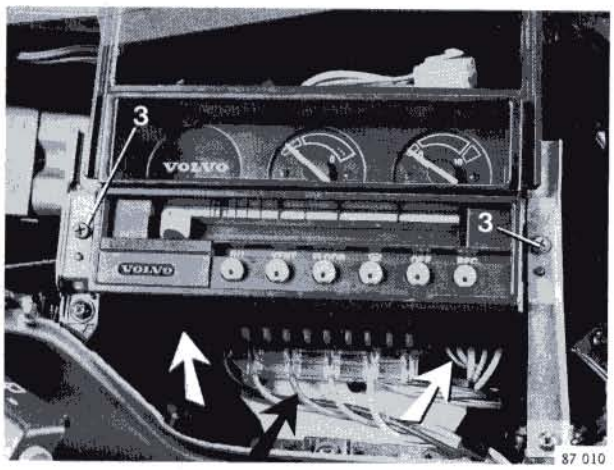
Disconnect the battery negative cable.
Remove the instrument panel (see Operations *R6-R7*).



L2

Remove the operating cable (vacuum operated valves)

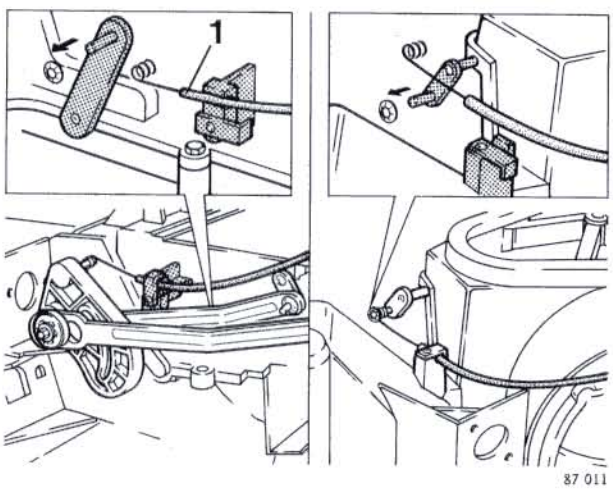
Release the screw (1) on the heater housing, take the outer cable out of the clamp and disconnect the inner cable from the operating arm.
Release the control panel and pull it part-way out of the dashboard (see the following operation).
Release the clip (2) on the control panel and hook the inner cable out of the operating arm.
Pull the cable out of the dashboard.



L3

Remove the control panel (vacuum operated variant)

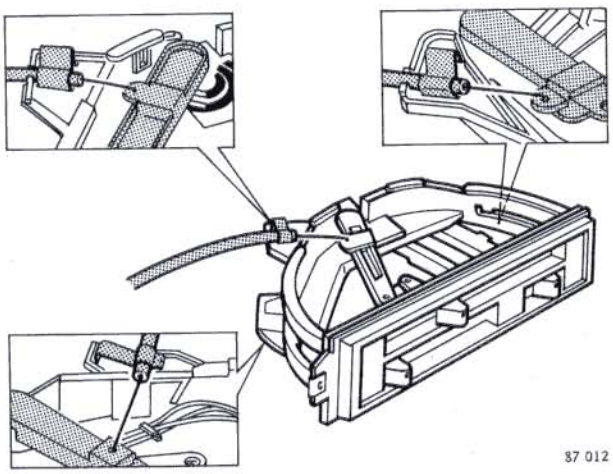
Disconnect the operating cable from the heater housing (see the above operation).
Remove the screws (3).
Pull back the control panel.
Release the connectors at the rear of the panel.
Release the vacuum connecting block complete with hoses.
Remove the control panel together with the operating cable from the dashboard.



L4

Disconnect the cables from the heater housing (mechanically operated valves)

Release the screws and take the outer cables out of the clamps.
Disconnect the inner cables from the operating arms.
Note: if the control panel is being removed on its own, only disconnect cable (1).



87 012

L5

Remove the control panel and/or operating cables (mechanically operated valves)

Release the control panel retaining screws.

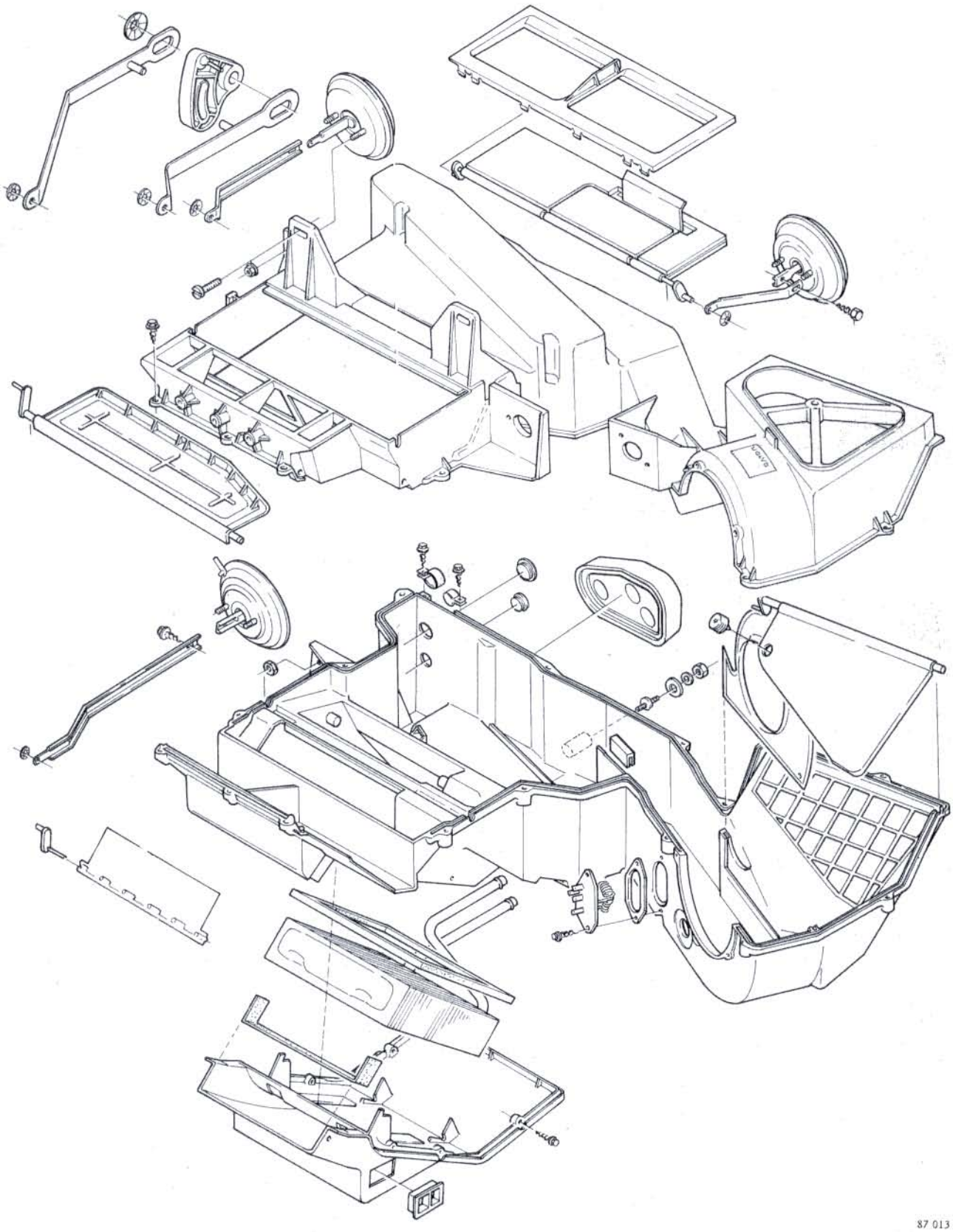
- When all the cables are disconnected at the heater housing, the control panel can be removed together with the cables.
- If the control panel is being renewed on its own, pull the panel part-way out of the dashboard, remove the clamps from the outer cables and disconnect the inner cables from the operating arms.

L6

Fit and adjust the cables and control panel

Fitting is in reverse order to removal.
Make sure that the valves can close fully.
If necessary, adjust the setting of the outer cable.

Heater unit



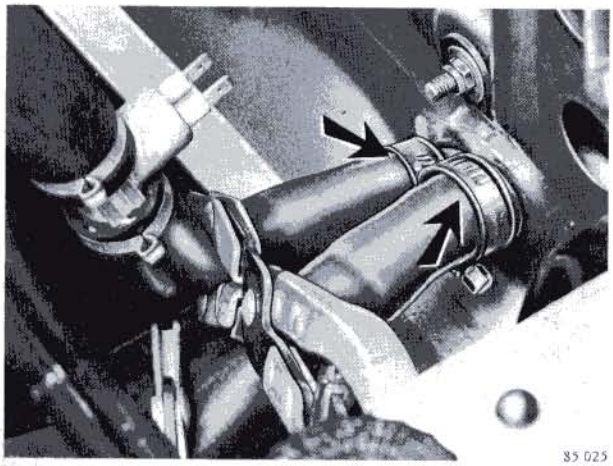
87 013

M. Removing and fitting the heater radiator

M1

Preparations

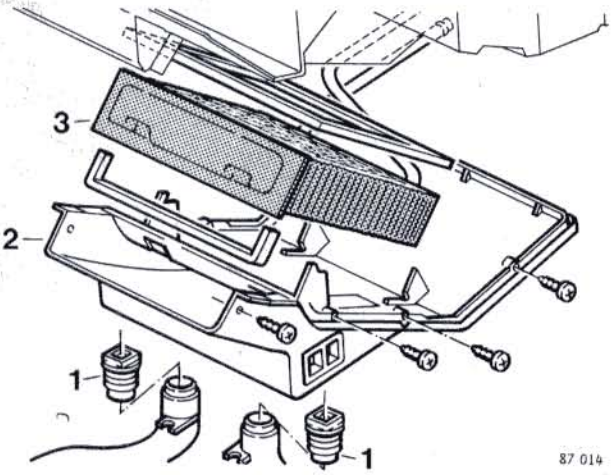
Disconnect the battery negative cable.
Remove:
— the console side panels
— the tunnel console front and rear sections
See Operations *T1-T4*.



M2

Remove the heater radiator (operations in the engine compartment)

Pinch off the coolant hoses.
Release the hose clips and disconnect the hoses from the heater radiator (collect the escaping fluid).



M3

Remove the heater radiator (operations inside the car)

Remove:
— the connecting sleeves (1)
— the screws in the cover panel (2) under the heater radiator.
Lift out the heater radiator (3).

M4

Fit the heater radiator

Fitting is in reverse order to removal.

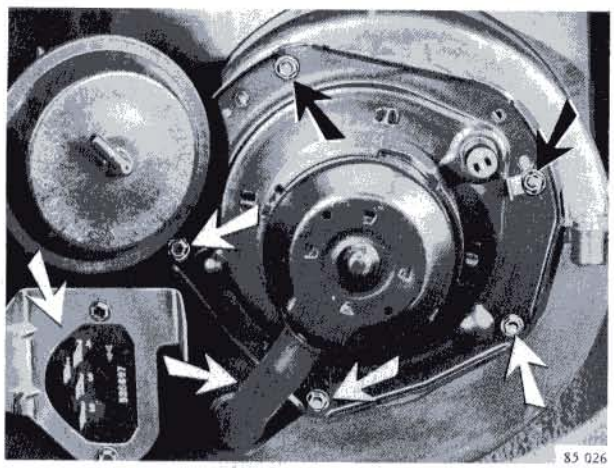
Note:
— Top-up with coolant.
— Run the engine warm and check the heater for correct operation.
— Check the coolant level and top-up as necessary.

N. Removing/fitting the booster fan assembly

N1

Preparations

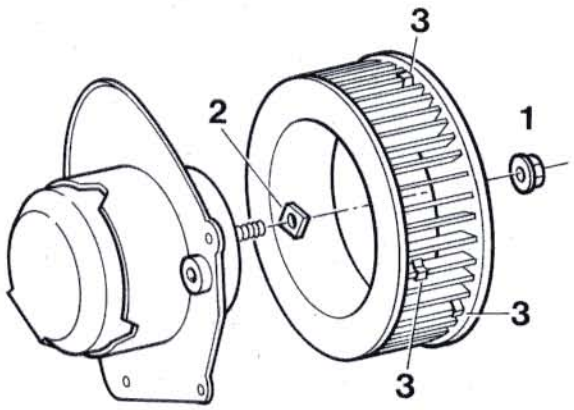
Disconnect the battery negative cable.
Remove the glove-box.
Remove the cover plate under the dashboard.



N2

Remove the booster motor

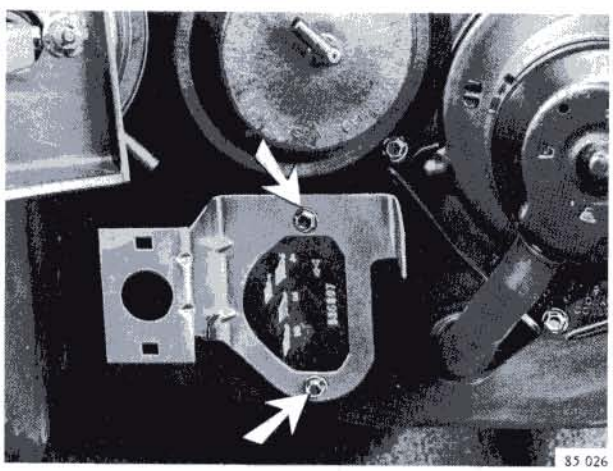
Disconnect the booster motor wiring at the connectors.
Disconnect the hose.
Remove the screws all round and disconnect the earthing cable.
Turn the booster assembly so that the flat section can slide past the vacuum diaphragm unit and then take the booster motor out of the heater housing.



N3

Remove the fan wheel

Remove the nut (1).
Take the fan wheel and the stop plate (2) off the motor shaft.
Important: small balancing weights (3) are clipped at intervals around the fan wheel; these must **never** be removed or relocated.



N4

Remove the resistor

Disconnect the wiring at the connector and remove the relay from the bracket.
Remove the screws.
Remove the mounting frame and the resistor.

N5

Assemble/fit the booster fan and resistor

Assembly/fitting is in reverse order to removal.
Take special note of the seal when fitting the booster motor.

O. Removing/fitting the regulating valves in the heater unit

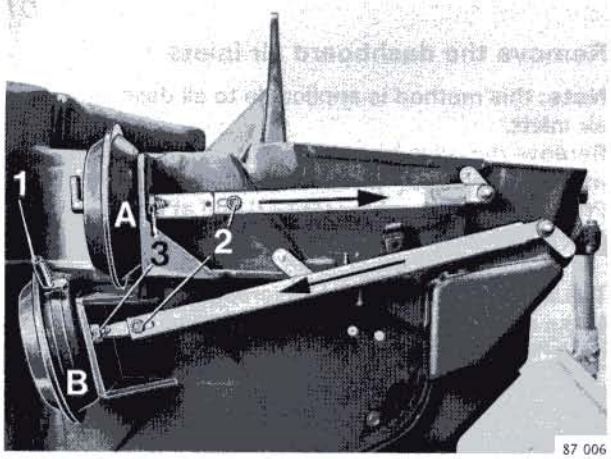
O1

Preparations

Disconnect the battery negative cable.
Remove the dashboard assembly (see operations *R1-R14*).
To remove the capacity regulating valve and the defroster regulating valve (Operations *O2* and *O3*) it is not necessary to remove the heater unit from the car. The heater unit must, however, be removed in order to disassemble the temperature control valve and the air control valve (Operation *O4*).

P. Removing/fitting the vacuum diaphragm units

Note:
If the vacuum diaphragm units are being renewed on their own, it is not necessary to remove the dashboard.



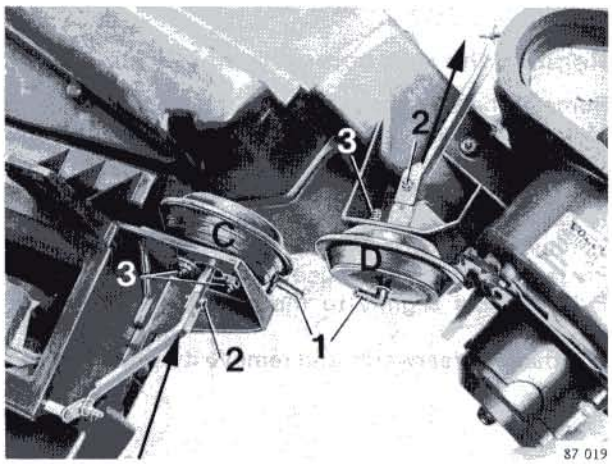
87 006

P1

Remove the vacuum diaphragm units

A Capacity regulating valve
B Defroster regulating valve
C Capacity regulating valve (auxiliary valve)
D Air control valve

Disconnect the vacuum hose from the connecting pipe (1).
Disconnect the operating arm (bolt 2).
Remove the nuts (3).
When renewing vacuum diaphragm unit (D) **on the car,** use an **angle-head** ring spanner.
Remove the vacuum diaphragm unit.

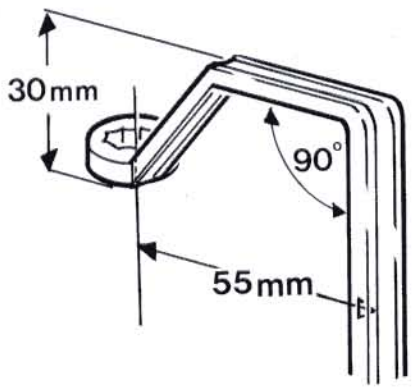


87 019

P2

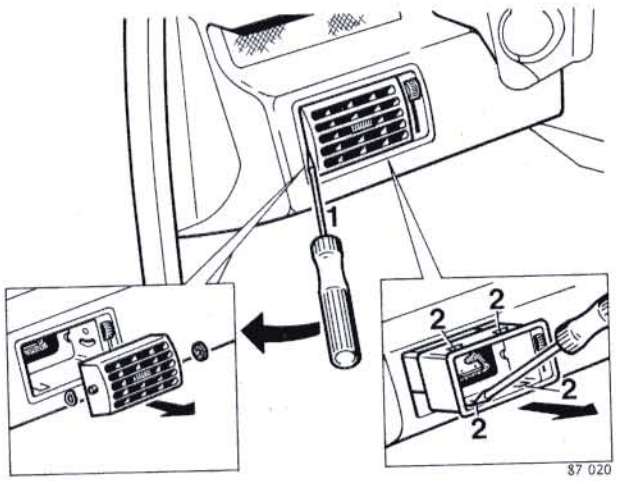
Fit and adjust the vacuum diaphragm units

Locate and secure the vacuum diaphragm unit.
Press the operating arm of the vacuum diaphragm unit in the direction indicated by the arrows and fasten in position.
Secure the vacuum hoses on the connecting pipes (1); note the colours:
A Blue
B Orange
C Green
D Red



87 007

Q. Removing/fitting the air inlets/ducts

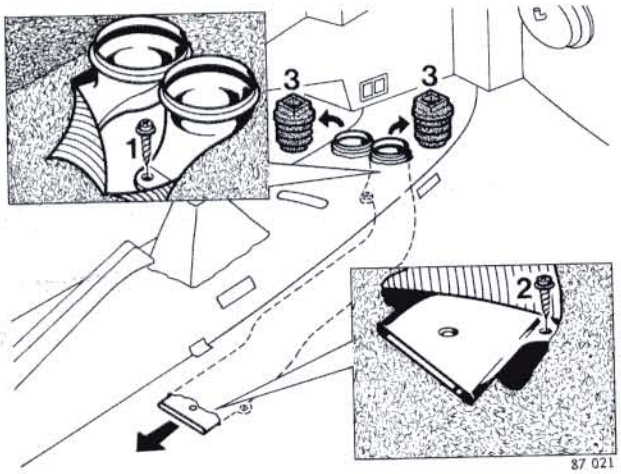


Q1

Remove the dashboard air inlets

Note: this method is applicable to all dash-mounted air inlets.
Remove the grille by levering it away from the **outermost** pivot point (1).
Press in the four locking tabs (2) and at the same time pull the air inlet out of the dashboard.

The air inlets are fitted in reverse order to removal.
Make sure that the hose is properly secured to the air inlet housing.



Q2

Remove the rear compartment air duct

Remove the tunnel console and the front seat(s).
Make minimum incisions in the carpet so as to reach the screws (1 and 2).
Important: when making the incisions, take care not to cut the wiring under the carpet.
Remove the screws (1 and 2) under the carpet.
Press down the rubber sleeves (3).
Pull the pipe slightly to the rear and remove the sleeves.
Pull the pipe rearwards and remove it from under the carpet.

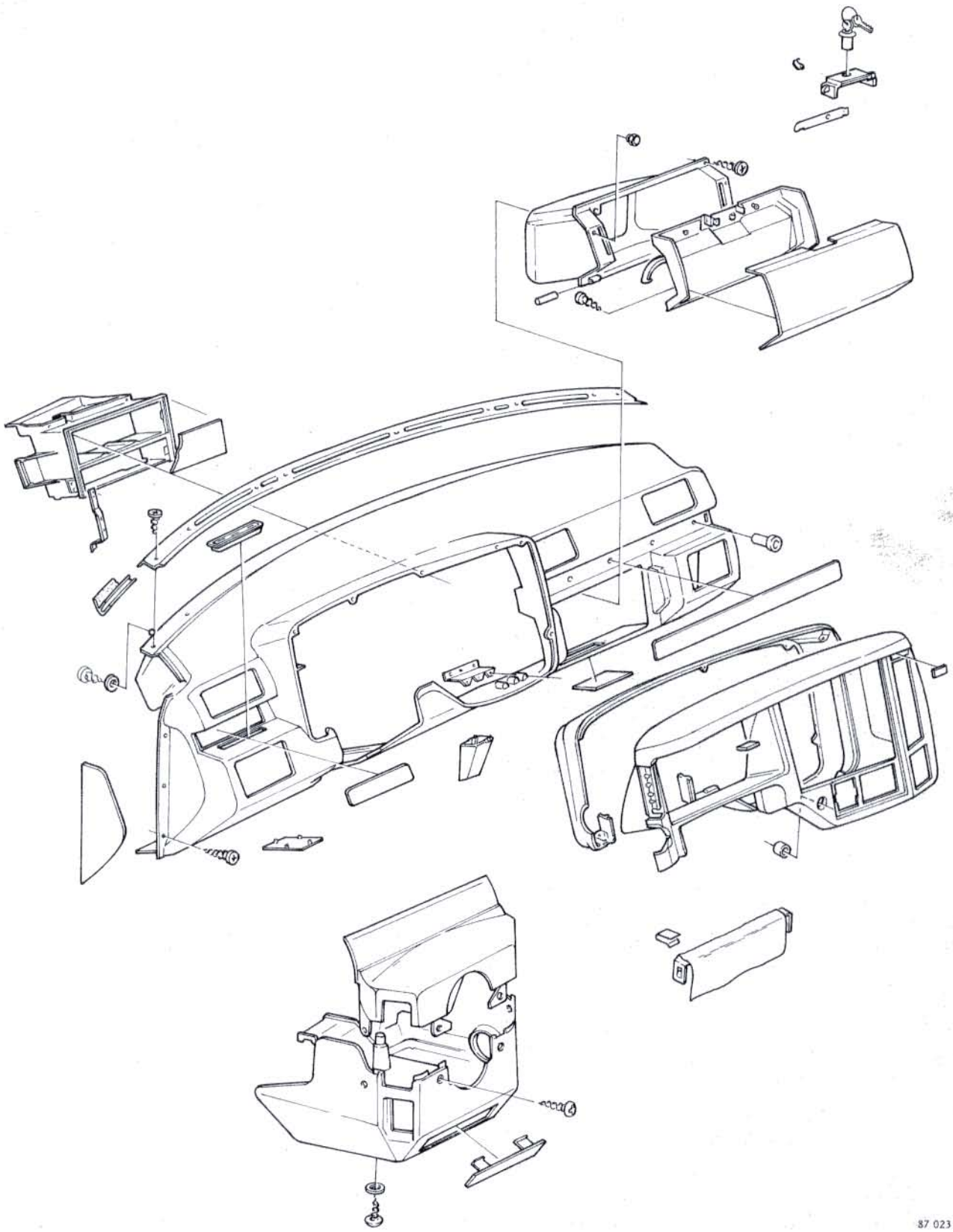
Q3

Fit the air inlets/ducts

Fitting is in reverse order to removal.

Group 88 Interior fittings

Exploded view of dashboard



87 023

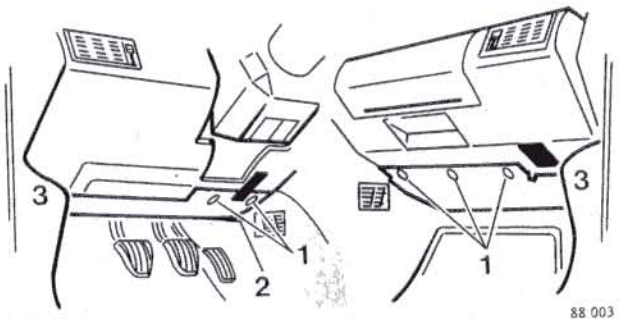
R. Removing/fitting the dashboard

R1

Preparations

- Remove the two A-pillar trim panels under the dashboard.
- Remove the tunnel console front and rear sections. see Operations *T1-T4.*
- Remove the steering wheel, the trim covers from the steering column and the steering column stalks (see the Repairs and Maintenance Service Manual, Section 6).

R2



88 003

Remove the panels under the dashboard

Remove the A-pillar lower trim panel (A) at the driver's side.
Remove the expander-fasteners (1).
Take the panel out from under the dashboard.
Fitting:
Hook the lip (2) over the tunnel console side panel.
Support the panels at point (3) on the A-pillar trim panels.

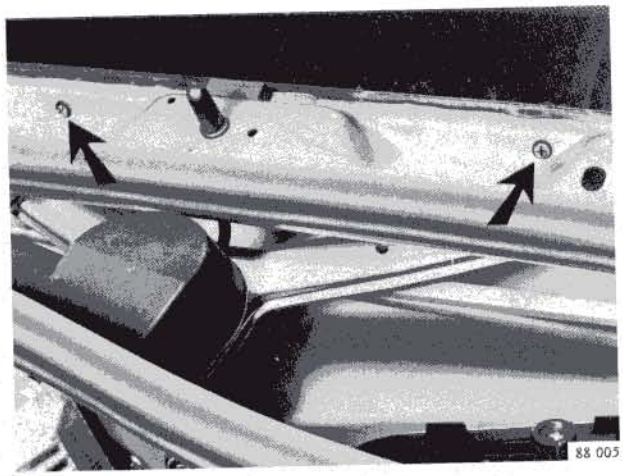
R3

88 004

Release the relay box

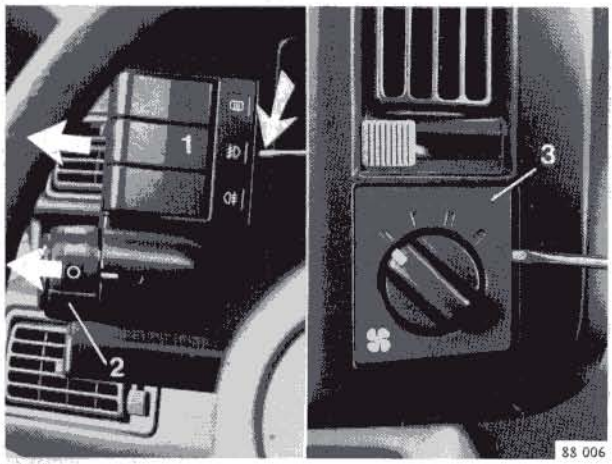
Disconnect the battery negative cable.
Remove the cover from the relay box.
Remove the screws and lower the relay box into the car interior.

R4


88 005

Removal operations outside the car

Remove the windscreen wiper arms.
Remove the trim mouldings under the windscreen.
Remove the (four) screws.

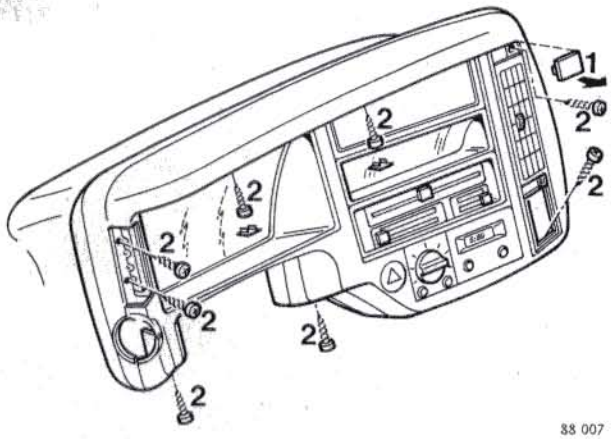


88 006

R5

Remove the switches

Press in the tab via the hole and pull the tumbler switches (1) out of the panel.
Pull the lighting switch (2) to the left and out of the panel.
Remove the booster fan switch (3).

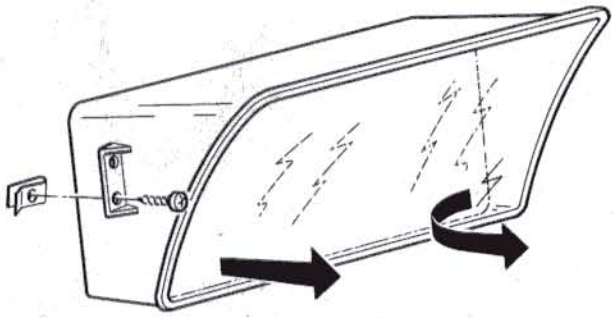


88 007

R6

Release the dashboard

Remove the cover plate (1).
Remove the screws (2).
Pull the dashboard panel rearwards so that the instrument panel can be reached.
Release the connectors at the rear of the dashboard panel.
Note: the connector of the information centre switch is connected directly to the instrument panel and can only be released after the instrument panel has been removed from the dashboard.

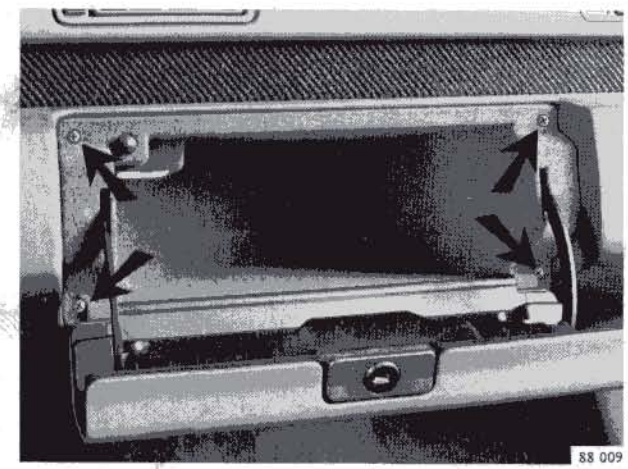

88 008

R7

Remove the instrument panel

Remove the screws at the left.
First move the left-hand side of the instrument panel rearwards and then hook it out at the right.

Release the connectors at the rear of the panel.
Take the instrument panel out of the dashboard.


88 009

R8

Remove the glove-box

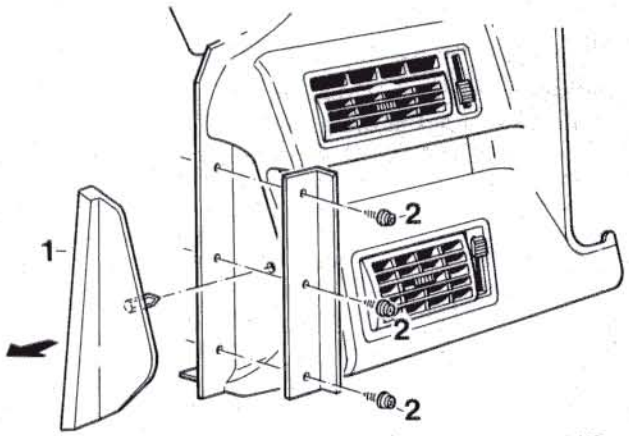
Remove the screws and pull the glove-box out of the dashboard.
Release the lighting connectors and remove the glove-box from the dashboard.

R9

Remove the heater control panel

See Operations *L1-L6*.

R10



88 010

Release the dashboard

Partly release the door weatherseals at both sides.
Remove the end panels (1) at both sides.
Remove the screws (2).
Remove the dashboard brackets from the heater housing.
Take the wiring harness behind the glove-box out of the clips at left and right.
Disconnect the wiring from the throttle switch.
Pull the dashboard sufficiently rearwards so that the connections can be reached at the rear of the dashboard.

R11

Disconnect the wiring behind the dashboard at the right

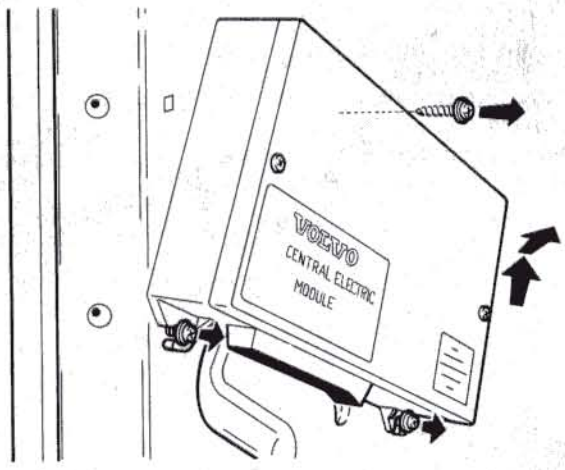
- the connector for the ambient air temperature transmitter (blue/brown, green/yellow)
- the connector for the Electronic Control Unit
- the door switch connector
- 3 connectors against the bulkhead
- 2 connectors for the booster fan

R12

Disconnect the wiring behind the dashboard at the left

- the door switch connector
- the connectors on the connector panel
- the connector (blue/brown, brown/red, green)
- the lower connector of the CEM
- the connector/earthing cable on the body
- the two red power supply cables on the fuse box
- the connector (orange/brown/red)

R13



88 011

Remove the dashboard assembly

Release the lower two screws and then remove the upper screw of the CEM.
Lift out the CEM and release the upper connector.
Release the wiring harness connectors for the centre console.
Remove the dashboard assembly.

R14

Fit the dashboard

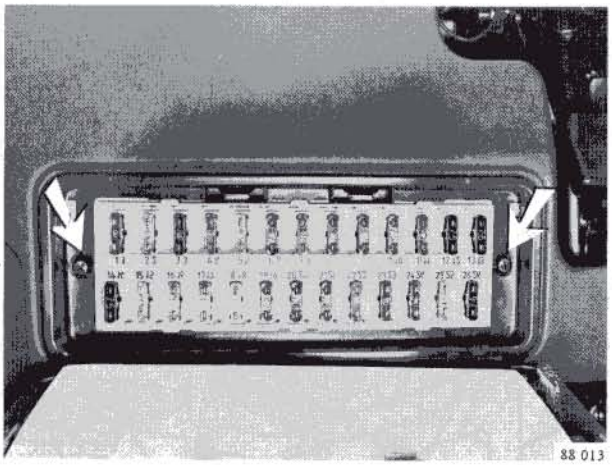
The dashboard is fitted in reverse order to removal.

S. Transferring parts to the dashboard

S1

Heater trunking

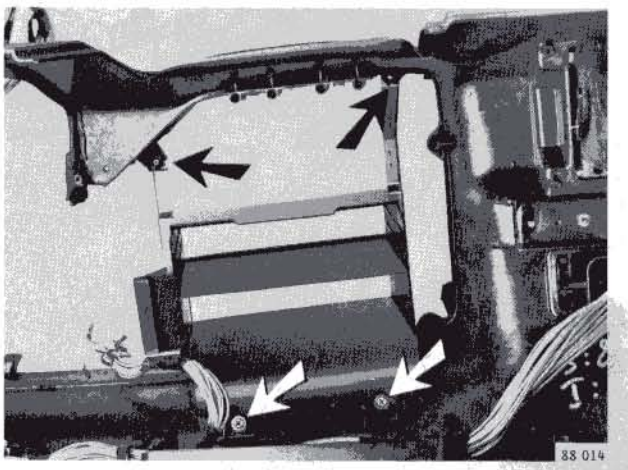
Remove at the top the cover panel (1) and the rubber joint (9 screws).
Remove the large diameter trunking (2) at left and right.
Remove the branch pipe (3) together with the round distributing pipes (4).
Remove the connecting piece.



S2

Fuse box

Remove the screws and take out the fuse holder.
Remove the fuse box cover and casing.

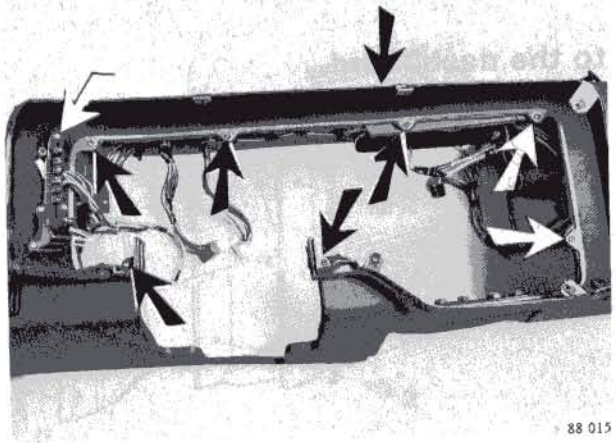


S3

Remove the heater control panel

Remove the screws.
Cut through the wiring harness tie-fasteners and remove the panel and wiring harness assembly.

S4

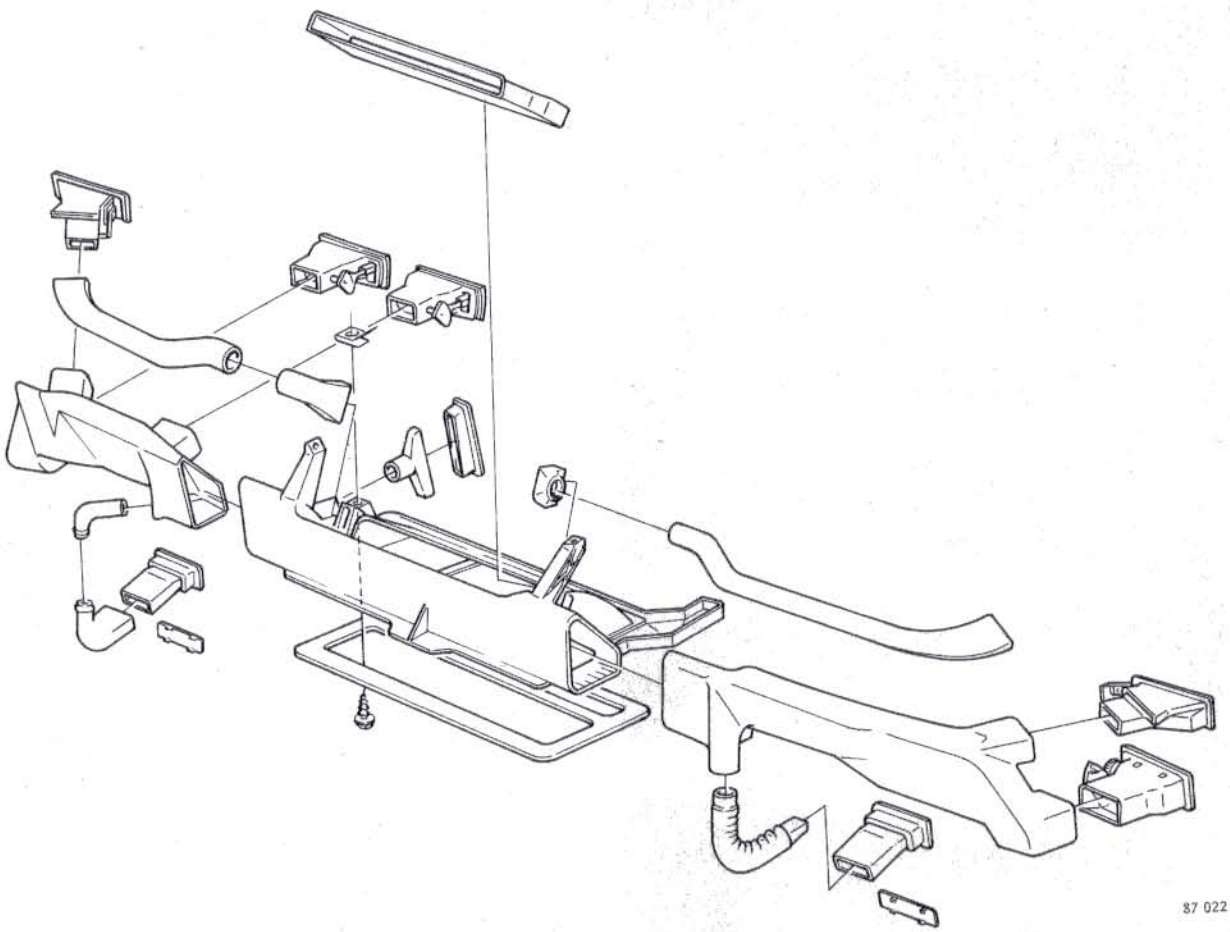


88 015

Instrument binnacle rear mask

Remove:
- the junction block
- the screws from the instrument binnacle rear mask
- the instrument binnacle rear mask

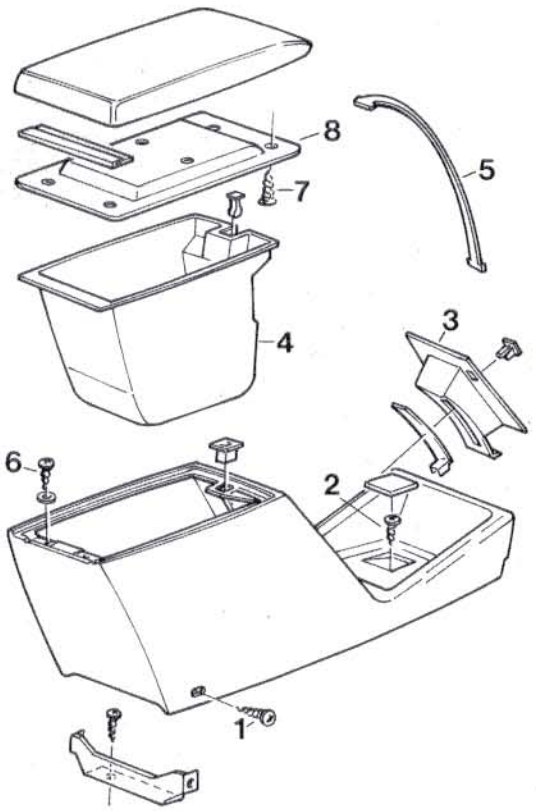
Exploded view of heater trunking behind the dashboard



87 022

T. Tunnel console: removal/fitting, transferring parts

Note:
in order to remove the console front section, the rear section must be removed first.



88 018

T1

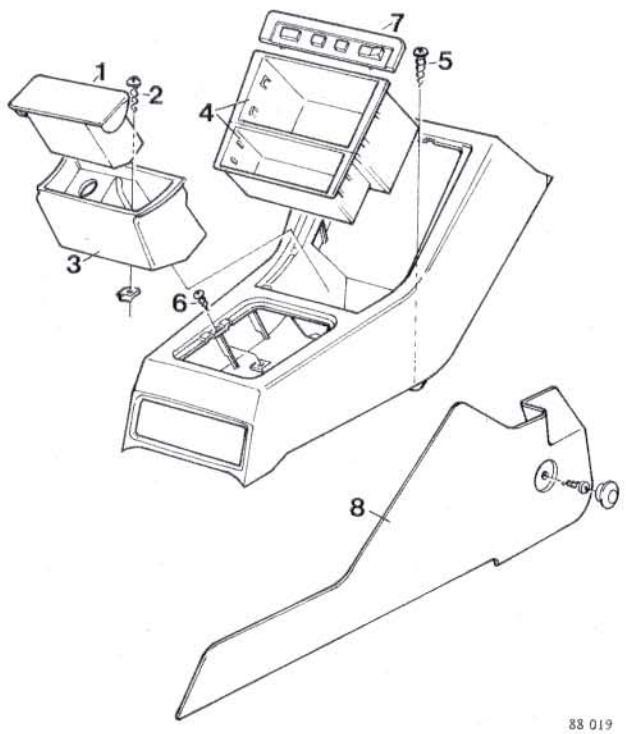
Remove the console rear section

Remove:
— the screws (1)
— the cover plate and the screw (2).
Slide the handbrake handle forwards and off the lever.
Prise the top end of the switch panel (3) out of the console.
Disconnect the wiring at the connectors and remove the panel.
Take the console off the tunnel.

T2

Remove the console locker cover

Open the hinged cover to the raised position.
Pull the locker (4) up and out of the console (note the limiting strap (5)).
Remove the screws (6) and take the cover off the console.



88 019

T3

Remove the cover inside panel

Remove the screws (7).
Take the inside panel (8) off the cover; note the hinge and the limiting strap.

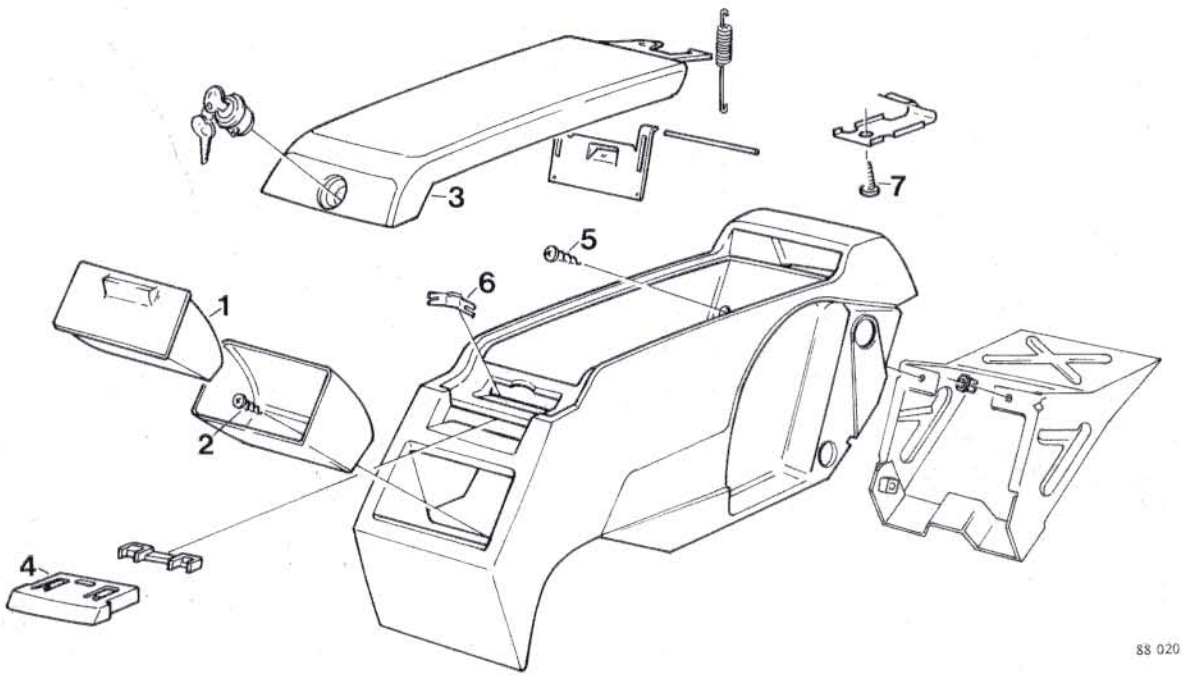
T4

Remove the console front section

Remove:
— the ashtray (1) and the screw (2) from the ashtray unit
— disconnect the wiring for the lighting and cigar lighter and remove the ashtray unit (3) from the console.

Pull the two stowage trays (4) out of the console and remove the two screws (5).
Release the gear lever dust gaiter from the console and remove the two screws (6).
Press the switch panel (7) up and out of the catches and put it to one side.
Remove the console side panels (8) at left and right. These are held in place with grip-fastening tape; position correctly when fitting.
Take the console off the tunnel.

U. Lockable console between rear seats: removal/fitting, renewing parts



U1

Remove the lockable console assembly

Remove the ashtray (1).
Remove the screws (2) and take the ashtray unit out of the console.
Open the console hinged cover (3) to the raised position (press in the catch (4)).
Remove the screws (5) inside the console at the rear end.
Remove the rear seat backrests.
Remove the seat belt anchorage bolts at left and right.
Remove the lockable console assembly.

U2

Disassemble the lockable console assembly

Slide the catch (4) out of the console.
Remove the leaf spring (6).

Remove the screw (7) at the rear end.
Swing the hinge up and take off the cover.

Remove the two screws and take off the hinge.
Press in the clips inside the cover and at the same time press out the lock.

U3

Assemble and fit the lockable console assembly

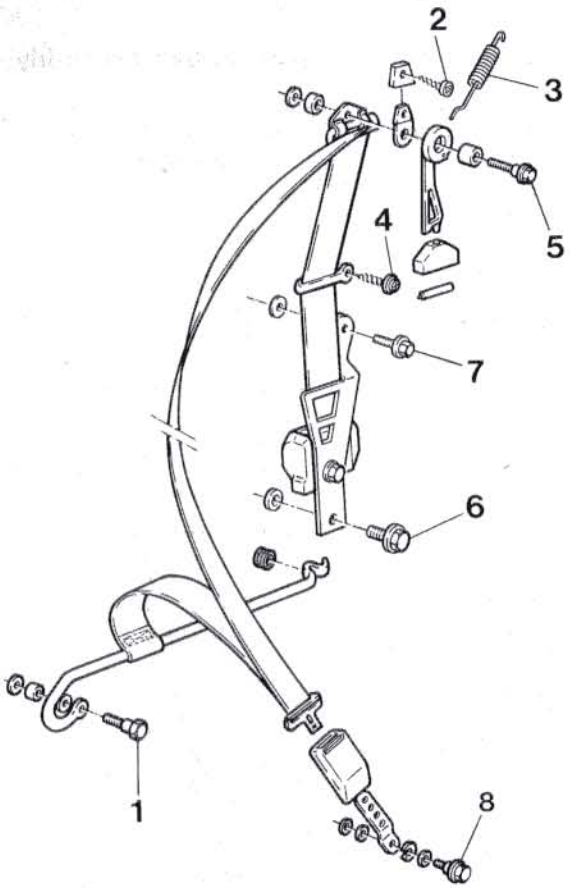
Fitting is in reverse order to removal.

V1-V3. Removing/fitting a front seat belt

V1

Preparations

Remove the side trim panel alongside the rear seat (see Operation *A4*).
Remove the B-pillar trim panel (see Operation *A7*).



88 021

V2

Remove the inertia reel seat belt assembly

Release the lower slide rail (1) and slip the belt off the rail (if necessary, unhook the slide rail rear end from the body).
Remove the screw (2) from the anchorage plate, pivot the swing link to the rear and unhook the spring (3) from the upper anchorage point.
Remove the screw (4).
Remove the upper bolt (5).
Remove the bolt (6) and screw (7) from the belt retracting unit.
Remove the seat belt assembly.

V3

Remove the belt lock

Take out the front seat.
Remove the bolt (8) and take the belt lock off the seat.

Fitting

Fitting is in reverse order to removal.

V4-V7. Removing/fitting a rear seat belt

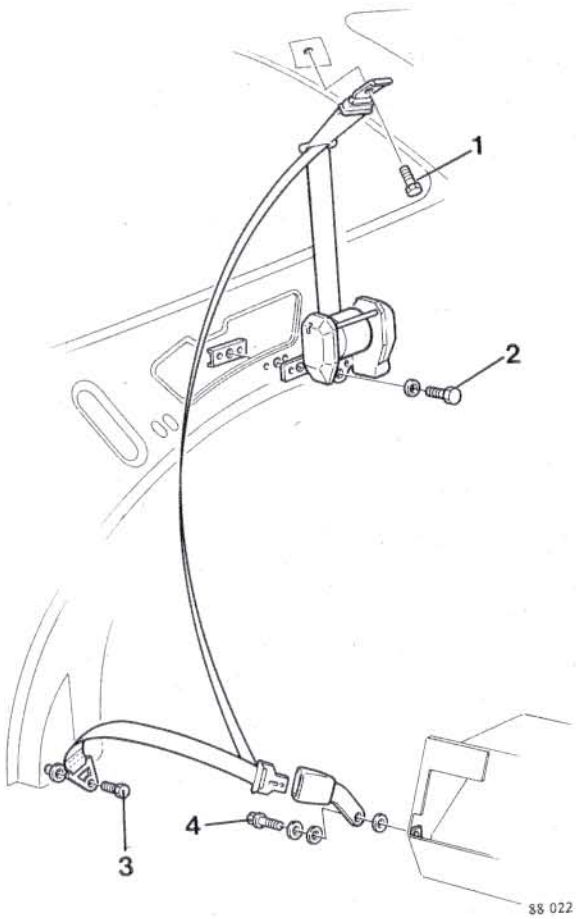
V4

Preparations

Remove:
- the side trim panel from the boot
- the rear seat cushion
- the stowage bin from the side wall alongside the rear seat
- the C-pillar trim panel

Lower the headlining at the rear end until the upper anchorage point of the seat belt can be reached (see Operations *D1-D4*).

V5



Remove the inertia reel seat belt assembly

Remove:
- the bolt (1) from the upper anchorage point
- the bolt (2) from the belt retracting unit
- the anchorage bolt (3).

Take out the seat belt assembly.

V6

Remove the belt lock

Remove the rear seat backrest.
Release the bolt (4) and remove the belt lock.

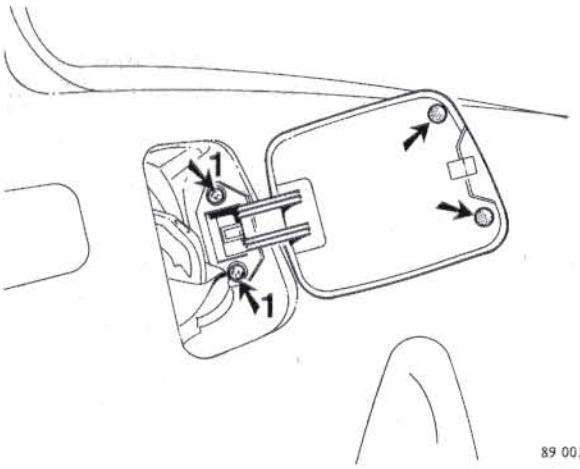
V7

Fitting

Fitting is in reverse order to removal.

Group 89 Miscellaneous

W. Removing/fitting the hinged fuel filler cap

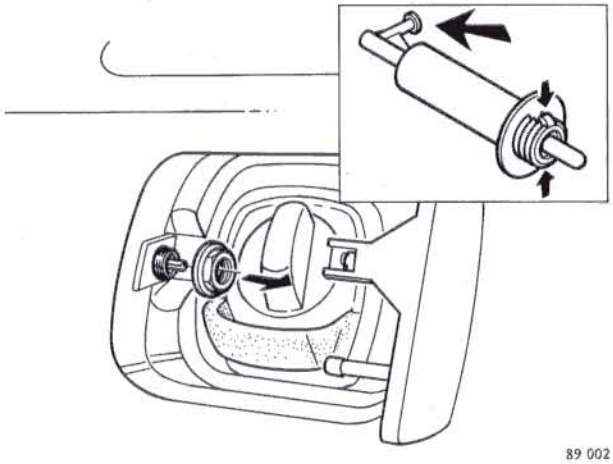


89 001

W1

Remove the hinged panel

Open the panel.
Remove the screws (1).
Take off the panel.
Remove the two rubber stops from the panel.
Fitting: position the panel before tightening the screws.



89 002

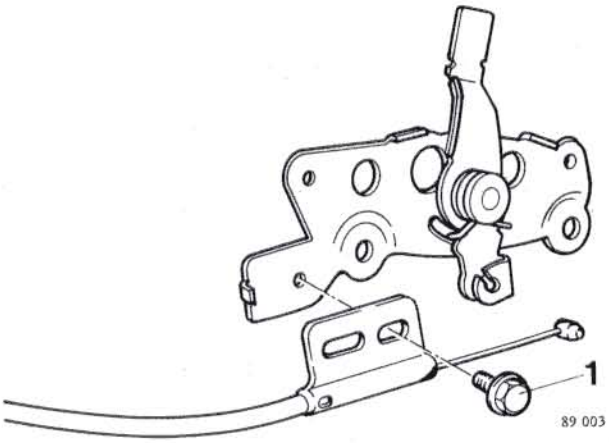
W2

Remove/fit the lock

Remove the side panel at rear-right (in the car).
Remove the lock retaining nut behind the hinged panel.
Remove the lock from the inside (the lock is retained by the slotted hole of the remote control mechanism).

X. Removing/fitting the fuel filler cap/tailgate remote control cable

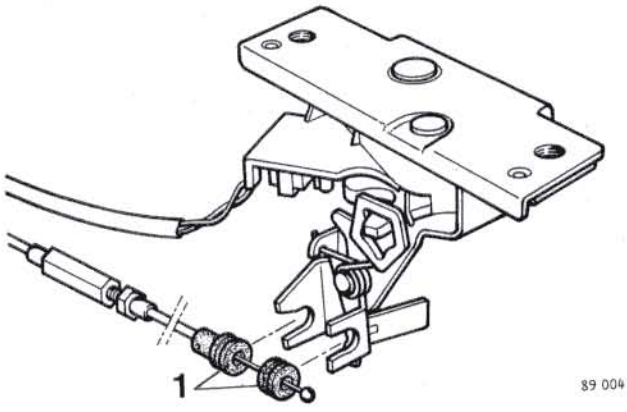
X1



Disconnect the fuel filler cap/tailgate cable from the operating mechanism alongside the front seat

Remove the button and the trim cover from the operating mechanism (see Operation *A9*).
Remove the bolt (1).
Take the cable out of the lever.

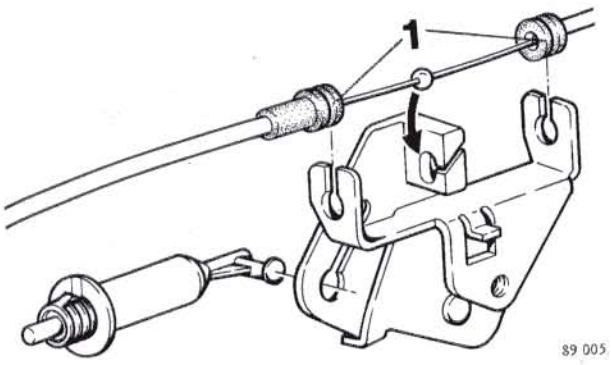
X2



Disconnect the cable from the tailgate catch

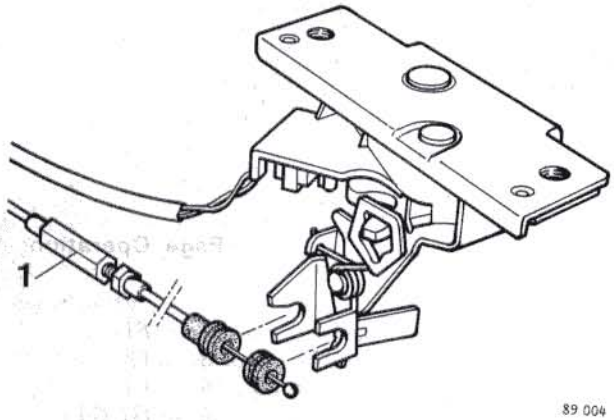
Remove the rear wall centre panel (see Operation *A5*).
Release the catch.
Carefully remove the two cable guides (1) from the catch using a screwdriver.

X3



Disconnect the cable from the tank lock release mechanism

Remove the side trim panel from the boot.
Remove the bolt from the release mechanism.
Carefully remove the two cable guides (1) from the bracket arms and take out the release mechanism.
Note: make sure that the release mechanism is hooked into position **behind** the lock of the hinged filler cap.

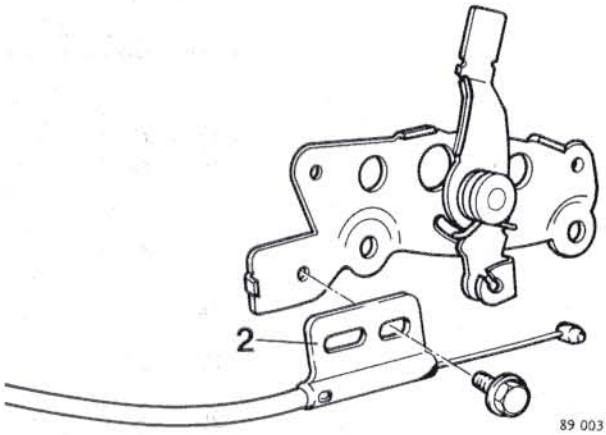


89 004

X4

Remove the cable

Remove both rear seat cushions.
Remove the seat belt slide rail.
Remove the cable clip from the sill.
Partly release the side trim panel alongside the right-hand rear seat.
Release the cable clamp on the inner wall.
Remove the cable **towards the front.**



89 003

X5

Fit and adjust the cable

Screw in the adjusting mechanism (1) fully.
Move the tailgate lock to the **closed** position.
Move the adjuster plate (2) of the operating mechanism to the middle position.
Fit the cable in reverse order to removal.
Check the fuel filler cap and tailgate release mechanism for correct operation.

Adjusting

The release action of the **hinged fuel filler cap** can be adjusted by slightly tilting the release mechanism.
The release action of the tailgate can be adjusted with the adjuster plate (2).

Important: the operating cable of the tailgate release unit must **never** be tensioned, otherwise this will cause the built-in switch to remain 'on' and so disturb the normal working of the alarm system.

Alphabetical Index

	Page	Operation
Trim panels		
Door trim panel	2	A1-A2
Boot side trim panel	3	A3-A4
Rear wall trim panel	3	A5
A-pillar trim panel	3	A6
B-pillar trim panel	4	A7
C-pillar trim panel	4	A8
Sill trim panel	4	A9
Panels under dashboard, removal/fitting	32	R2
Seats		
See: 'Front seats' and 'Rear seats'		
Front seats		
Exploded view drawing	5	—
Removal	6	B1
Adjusting mechanism cover panel, removal	6	B2
Head restraint, removal/fitting	6	B3-B4
Backrest, removal	7	B5
Lumbar support handwheel and backrest release knob, removal	7	B6
Lumbar support, removal	8	B10
Backrest locking mechanism, removal	8	B12
Backrest upholstery, removal	7	B7
Heating element, removal	7	B8
Back pad, removal	8	B9
Seat cushion upholstery and padding, removal	9	B13-B14
Seat frame upper/lower section, separating	9	B15
Seat belt pressure switch (in cushion), removal	9	B16
Seat frame parts, removal	10	B17-B21
Rear seats		
Rear seat cushion, removal/fitting	11	C1-C2
Cushion upholstery and padding, removal	11	C3
Backrest, removal	11	C4
Backrest upholstery, removal	12	C5
Backrest locking device, removal	12	C6
Backrest centre attachment bracket, removal	12	C7-C8
Headlining		
Removal/fitting	13	D1-D5
Grab handles, removal/fitting	13	D2
Sun visors, removal/fitting	13	D3
Carpeting, removal/fitting	14	E1-E3
Bumpers		
Front bumper, removal	15	F1
Front bumper, disassembly	15	F2
Front bumper, assembly/fitting	15	F3
Rear bumper, removal	16	G1-G3
Rear bumper, disassembly	17	G4
Rear bumper, assembly/fitting	17	G5
Number plate lighting, removal/fitting	17	G5
Heating and ventilation		
General	18	I1-I2
Checking	19	I3
Heater assembly		
Removal/fitting	21	K1-K4
Heater control panels, exploded view drawing	22	—
Control panel and operating cables, removal/fitting	23	L1-L6
Heater unit, exploded view drawing	25	—
Heater radiator, removal/fitting	26	M1-M4
Booster fan assembly, removal/fitting	28	N1-N5
Regulating valves in heater unit, removal/fitting	28	O1-O5
Vacuum diaphragm units, removal/fitting	29	P1-P2
Air inlets/ducts, removal/fitting	30	Q1-Q3
Dashboard		
Exploded view drawing	31	—
Dashboard, removal/fitting	32	R1-R14
Panels under the dashboard, removal/fitting	32	R2
Dashboard, releasing	33	R6
Instrument panel, removal	33	R7
Glove-box, removal	33	R8
Dashboard wiring, disconnecting	34	R11-R12
Transferring parts	35	S1-S4
Heater trunking behind dashboard, exploded view drawing	36	—
Glove-box, removal	34	R8
Instrument panel, removal	33	R7
Tunnel consoles		
Console rear section, removal	37	T1-T3
Console front section, removal	37	T4
Lockable console between rear seats, removal/fitting	38	U1-U3

	Page	Operation
Seat belts		
Front seat belt, removal/fitting	39	*V1-V3*
Rear seat belt, removal/fitting	40	*V4-V5*
Hinged fuel filler cap		
Removal/fitting	41	*W1*
Lock, removal/fitting	41	*W2*
Remote control cable, renewal	42	*X1-X5*
Tailgate remote control cable, renewal	42	*X1-X5*
Tailgate remote control cable, renewal	42	*X1-X5*

TP 35415/1