

## **Heiz- und Klimaanlage**

Heating and air conditioning system

Chauffage et système d'air conditionné

Climatizzazione

Calefacción e instalación de aire  
acondicionado

Värme- och luftkonditionering

Verwarming en air-conditioning

## 64 Heater and Ventilation

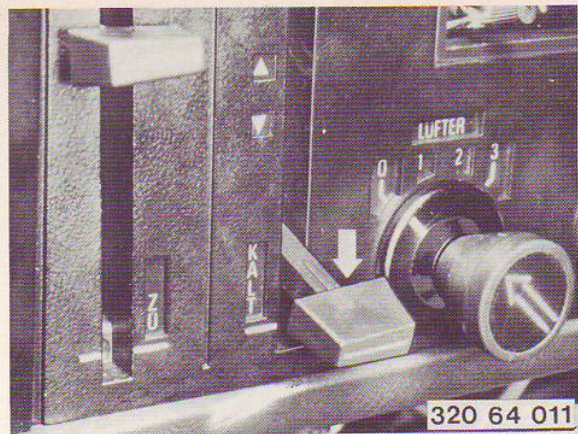
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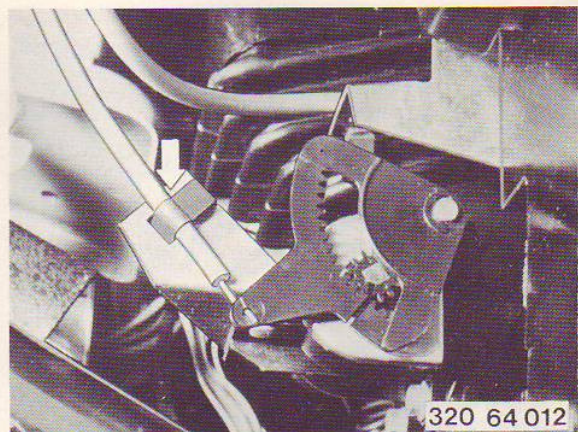
**64 11 004 Heater valve control cable – adjusting**

Detach and attach the lower left facia trim – 51 45 180.

Set the temperature control lever to “Cold”, and hold in this position.

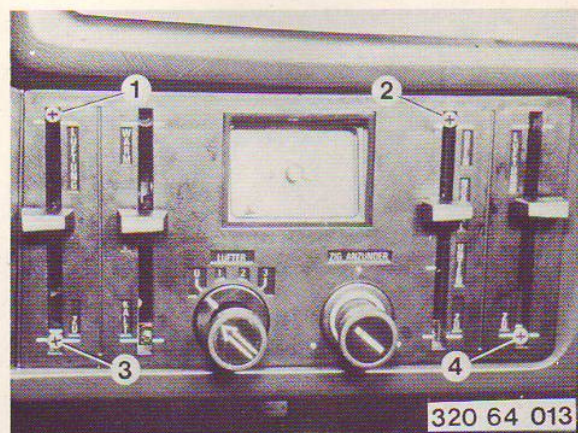


Detach the retaining clips at the water valve and move the cable until the marks on the toothed sector and the pinion are aligned. Secure the cable again with the retaining clips.

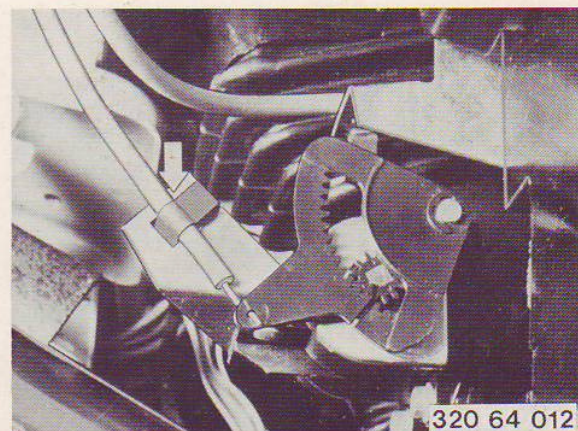


**64 11 061 Heater valve control cable – renewing**

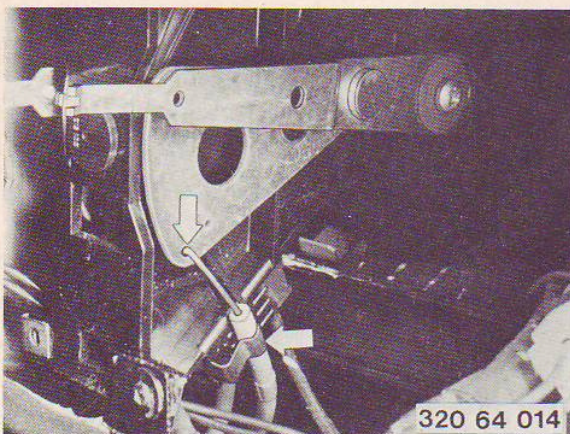
Pull off the control knobs. Remove screws (1 to 4) and take off the switch panel.



Release retaining clips and disconnect cable from water valve.

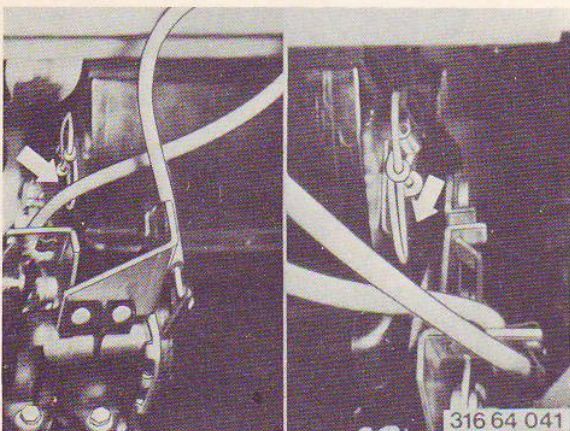






Release retaining clips and disconnect cable from temperature control relay lever.

*When installing:* Do not kink the control cable. Adjust the heater valve control cable – 64 11 004.

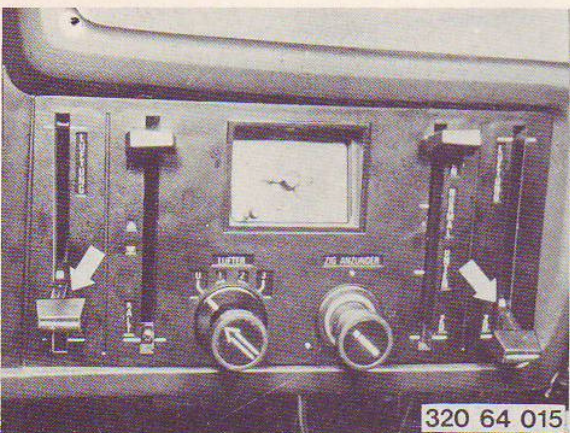


64 11 064 Both fresh-air supply control cables – adjusting

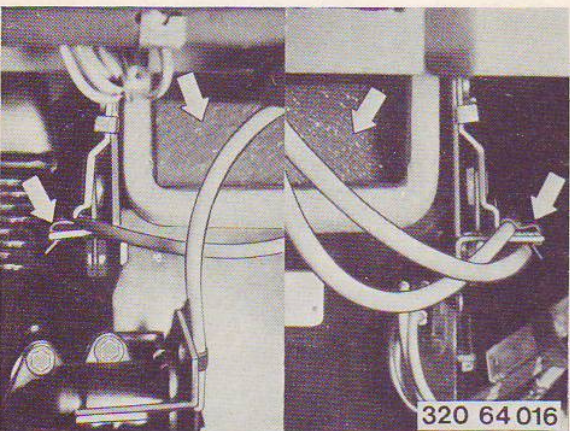
Detach and attach the lower left facia trim – 51 45 180.

Detach and attach the lower center right trim (at center tunnel compartment) – 51 45 200.

Disconnect the left and right snap fasteners. Take off the center cover.



Set the ventilation control lever to "Closed".



Release the retaining clips and move the outer cables until the fresh-air flaps are closed. In this position, secure the outer cables with the clips.

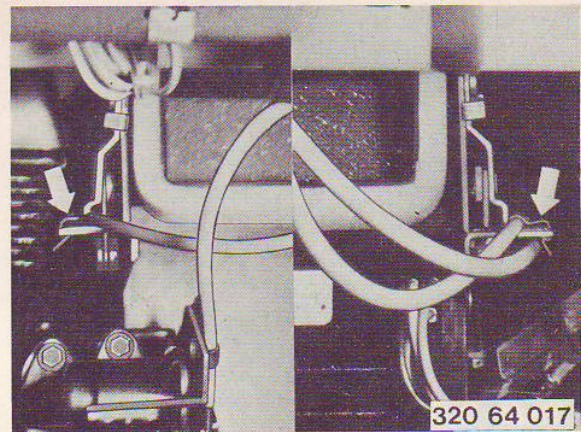


**64 11 106 Both fresh-air supply control cables – renewing**

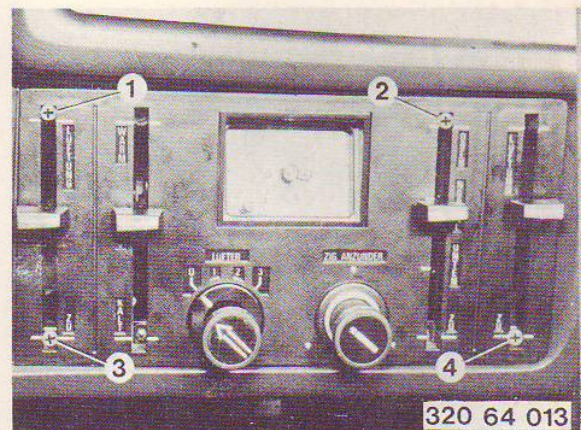
Detach and attach the lower left facia trim – 51 45 190.

Detach and attach the lower center right facia trim (at center tunnel compartment) – 51 45 200.

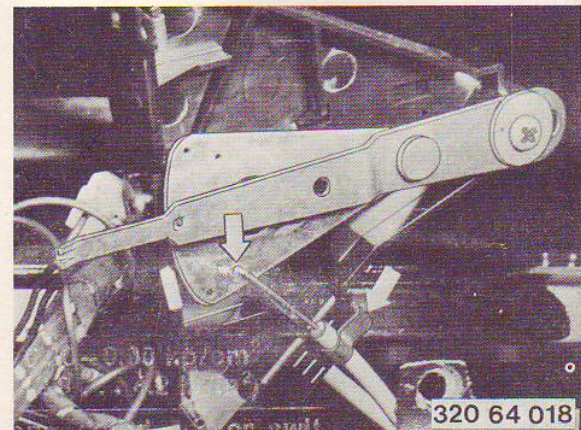
Release the retaining clips and press the cable away from the pin.



Pull off the control knobs.  
Remove screws (1 to 4) and take off the switch panel.

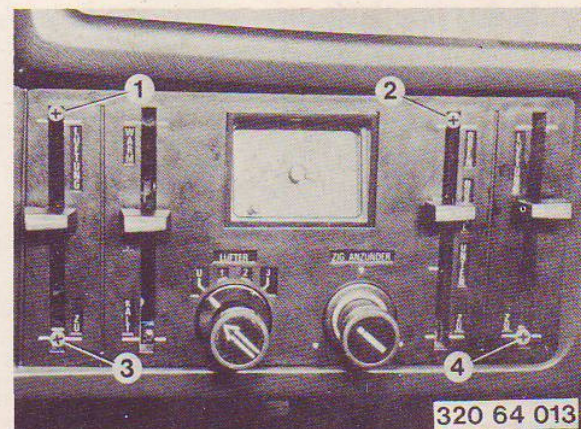


Detach the control switch.  
Release the retaining clips and disconnect the cable at the control switch.  
When installing: Adjust cable – 64 11 064.

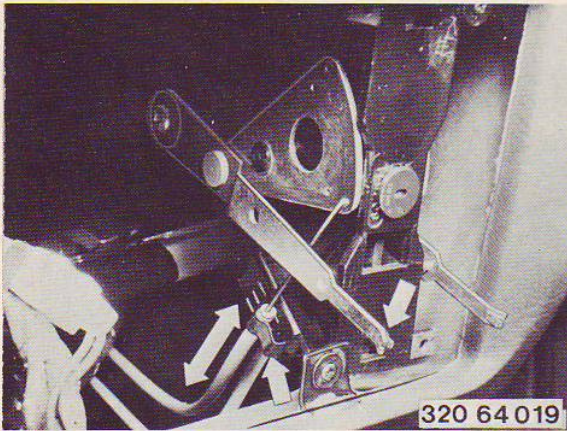


**64 11 134 Cable for demister flaps (air distribution flaps) – adjusting**

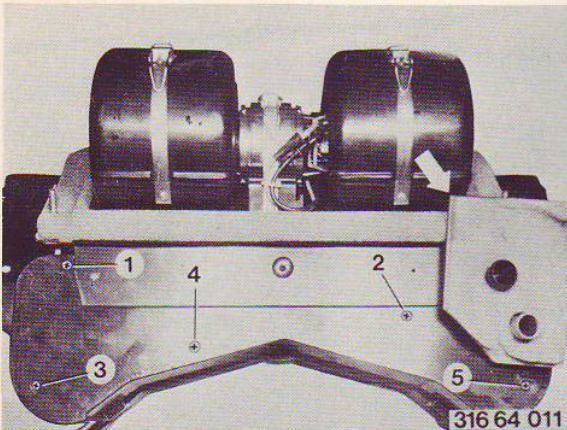
Pull off the control knobs.  
Remove screws (1 to 4) and take off the switch panel.





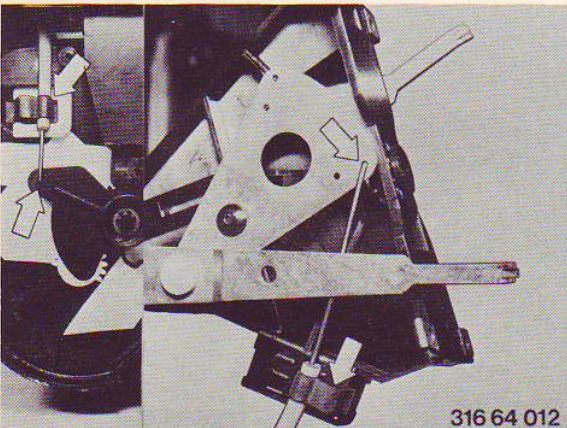


Set the control switch to "Closed".  
Release the retaining clip and remove the outer cable until the air distribution flaps are closed. Secure the outer cable with the retaining clip in this position.  
Checking: Switch on Stage II of the heater blower. No air should emerge from the outlets (upper or lower).



#### 64 11 171 Cable for demister flaps (air distribution flaps) – renewing

Remove and install the heater – 64 11 200.  
Pull off the foam rubber seal.  
Remove bolts (1 to 5) and take off the cover.



Release the retaining clips. Disconnect the cable at the toothed sector and the control lever.

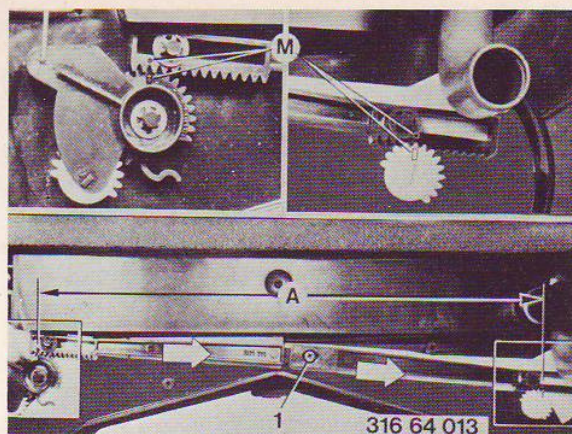
*When installing:* Do not kink the cable. Secure the cable with a retaining clip to the heater in such a way that 4 to 5 mm (0.16 – 0.2 in) of the outer cable projects.  
Adjust the cable – 64 11 134.



When renewing the toothed rack, note the following:

The marks (M) on the toothed racks and pinion must be aligned.

Dimension A = 322 mm (12.68 in) must be measured when the marks (M) are opposed. If necessary, loosen bolt (1) and move the rack to the right until the air distribution flaps are closed, then retighten the bolt.



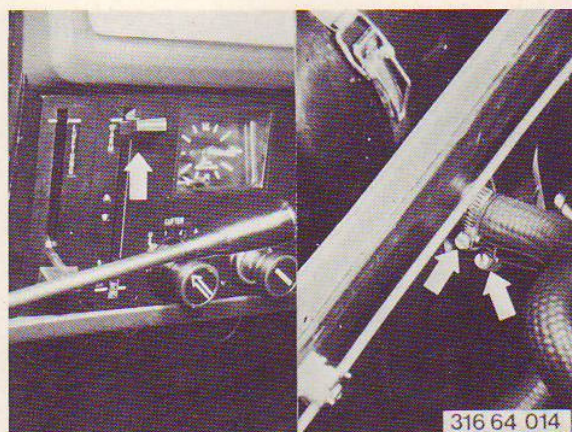
#### 64 11 200 Heater—removing and installing

Remove and install the center tunnel compartment – 51 16 200.

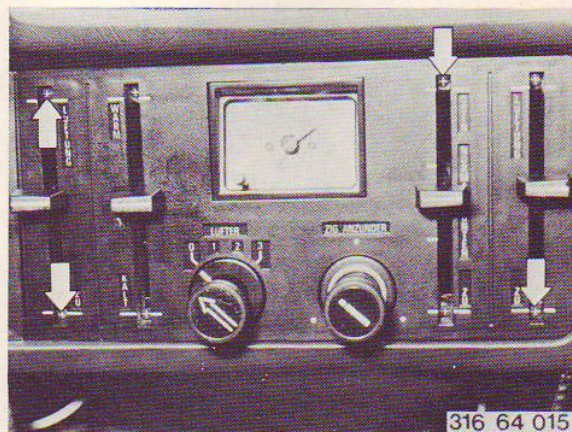
Detach and attach the lower right trim (next to the center tunnel compartment) – 51 45 200.

Detach the negative lead at the battery. Set the temperature control switch to "Hot". Partly drain the coolant and disconnect the hot water hoses. Take off the screen panel with foam rubber seal.

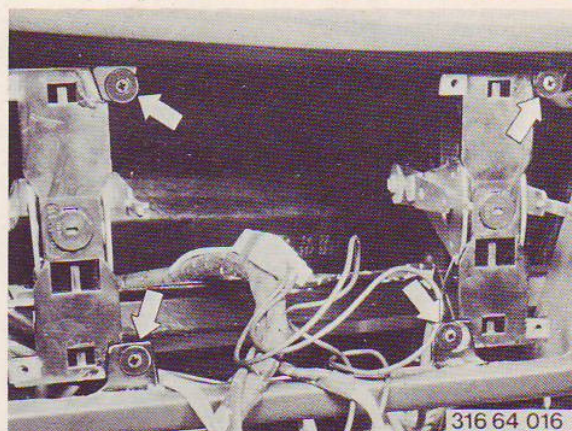
*When installing:* Add coolant and bleed the cooling system. Use the hot water hoses to press the screen panel firmly against the bulk-head, then tighten the hose clips.



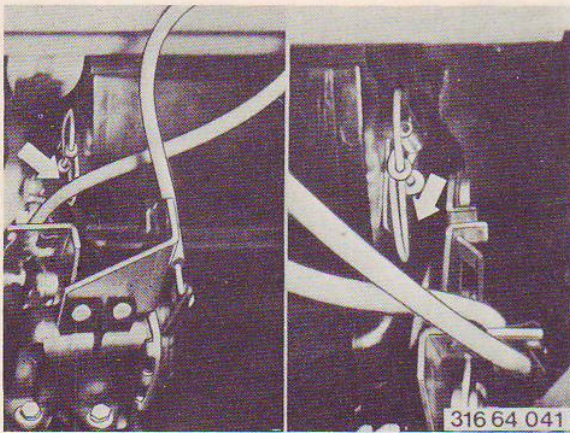
Pull off the knobs and detach the switch panel.



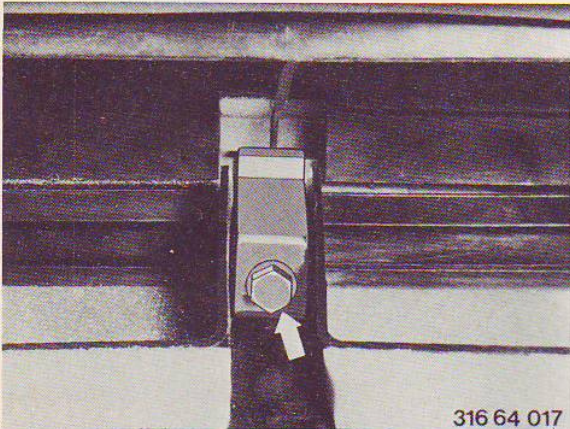
Detach the control switch.



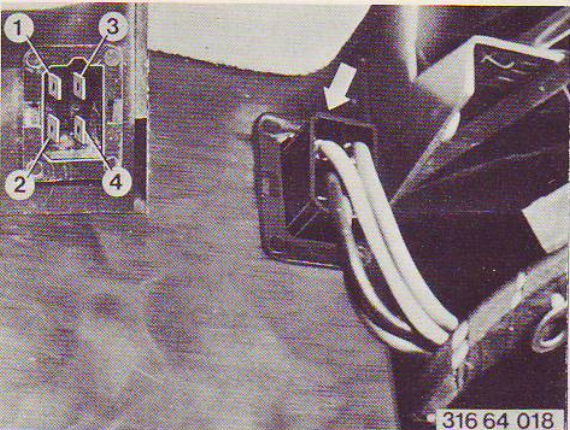




Release the left and right snap fastenings and take out the cover.

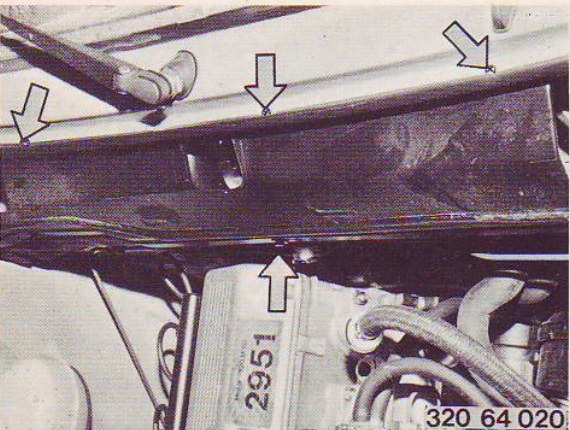


Remove the bolt and lift out the retaining angle.



Detach the cable plug from the socket.

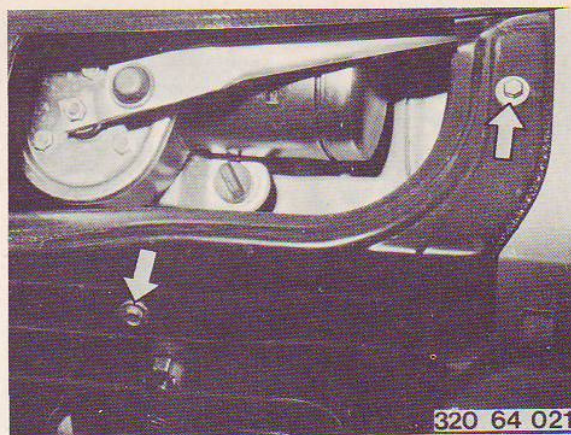
- 1 = Heater blower, stage 1
- 2 = Heater blower, stage 2
- 3 = Heater blower, stage 3
- 4 = Heater blower, + positive



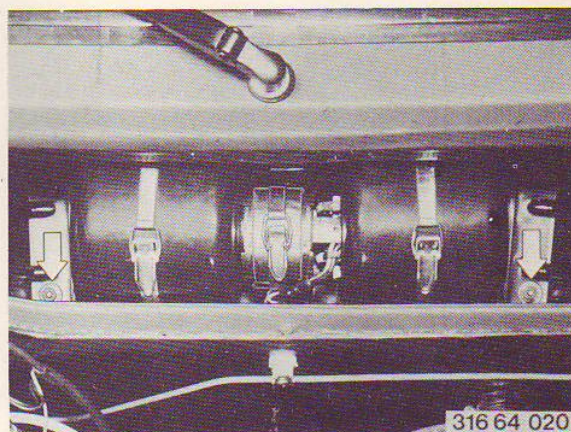
Remove the center bolts.



Unscrew the left and right bolts.  
Take off the heater bulkhead.

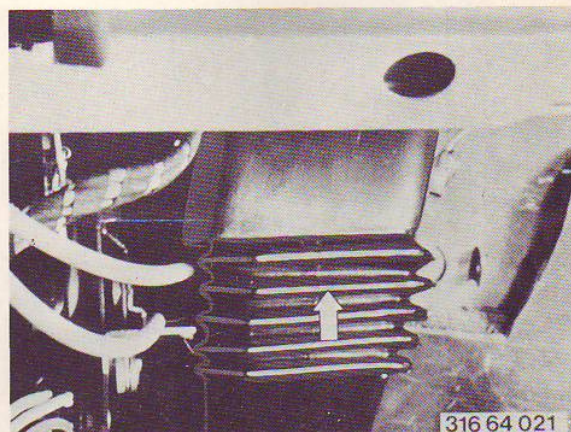


Unscrew the left and right nuts.  
Take off the water deflector plates.



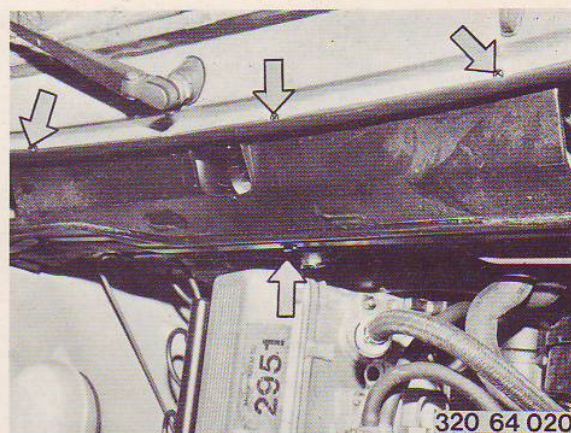
Turn the heater with control switch and remove inwards.

*When installing:* Insert the connecting section into the defroster outlets.

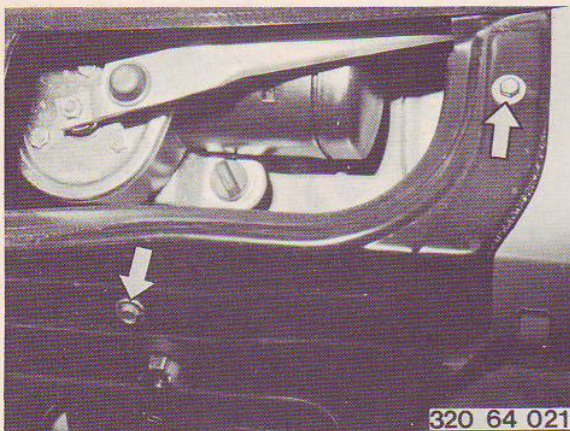


**64 11 210 Heater motor – removing and installing**

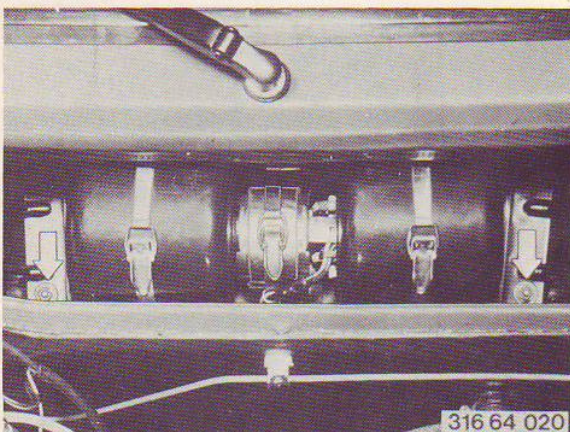
Unscrew the center bolts.



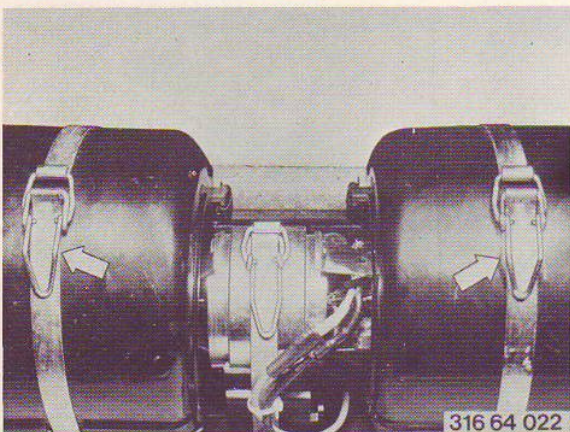




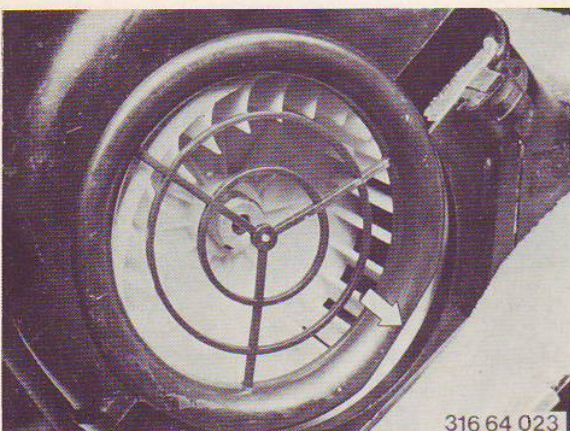
Unscrew the left and right bolts and take off the heater bulkhead.



Unscrew the left and right nuts and take off the water deflector plates.



Release the snap fastener and take out the upper section of the housing and the inlet shrouds.



*When installing:* The flat section on the outside of the inlet shrouds faces downwards.

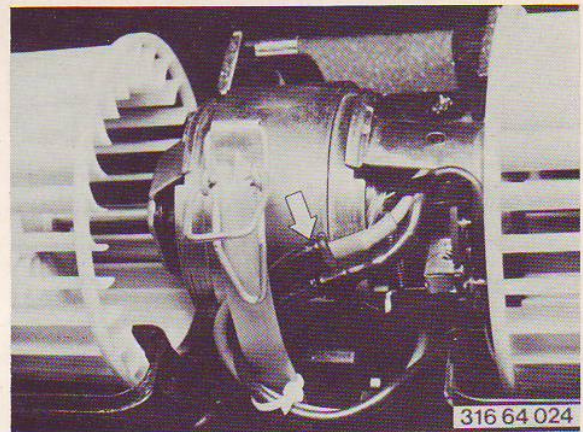


Release the snap fastener. Separate the cable connectors and lift out the motor complete with impellers.

*When installing:* Connect leads so that the colors match.

*Warning:* Do not detach the blower from the motor shaft, since the two components have been balanced as a single unit.

Renew the motor only complete with the impellers.



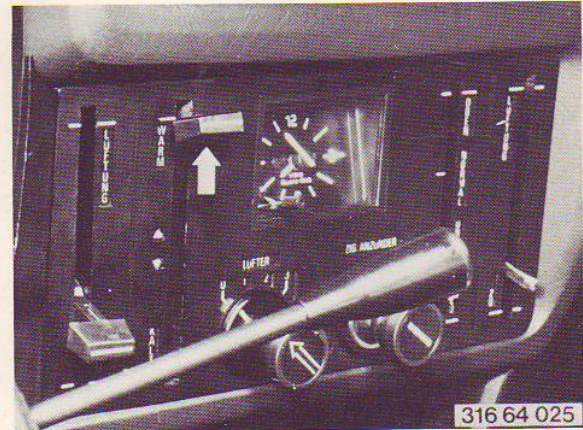
#### 64 11 271 Heater water valve – renewing

Detach and attach the lower left facia trim 51 45 180.

Set the temperature control switch to “Hot”.

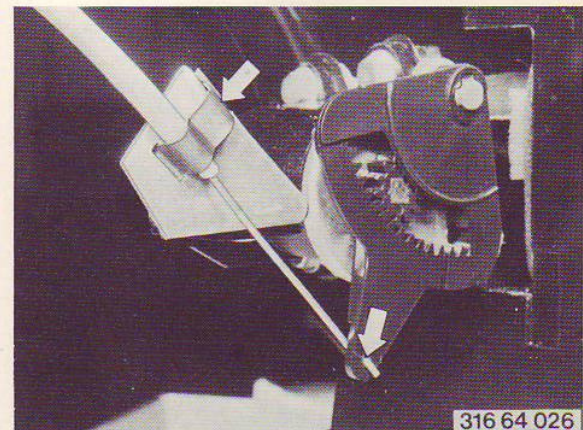
Partly drain the cooling system.

*When installing:* Add coolant and bleed the system.

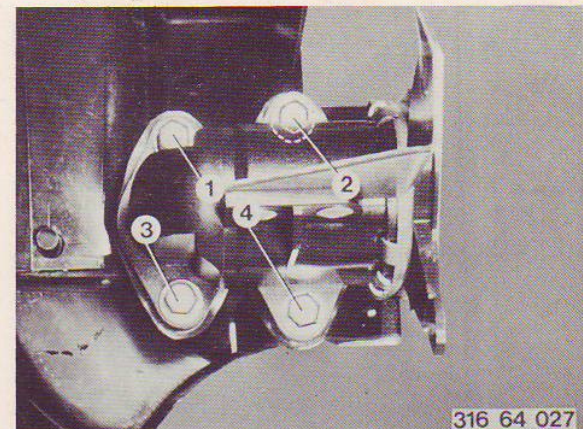


Release the retaining clips and disconnect the cable at the water valve.

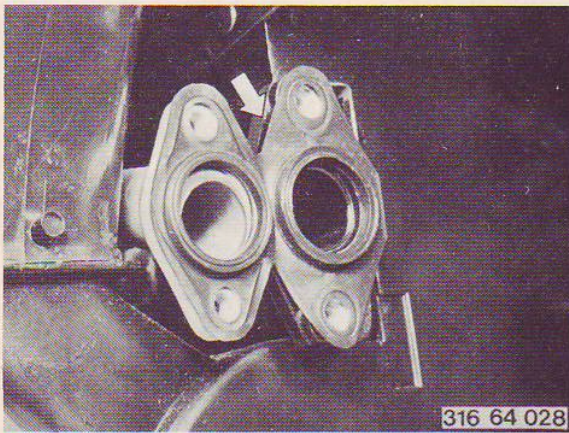
*When installing:* Adjust cable – 64 11 004.



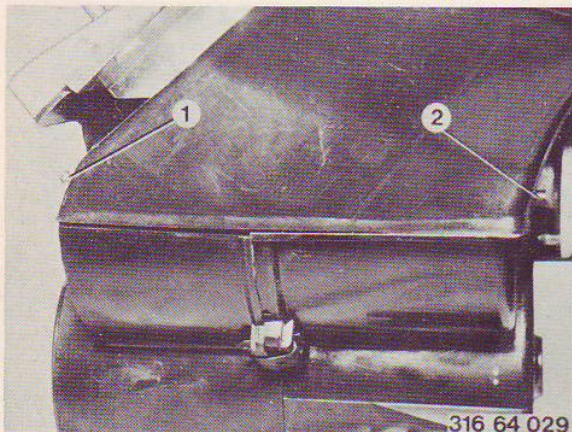
Unscrew bolts (1 to 4) and take off the water valve.





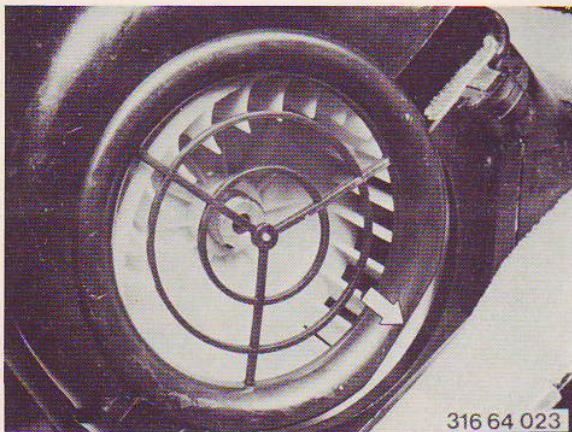


*When installing:* Check condition of gasket and renew if necessary.



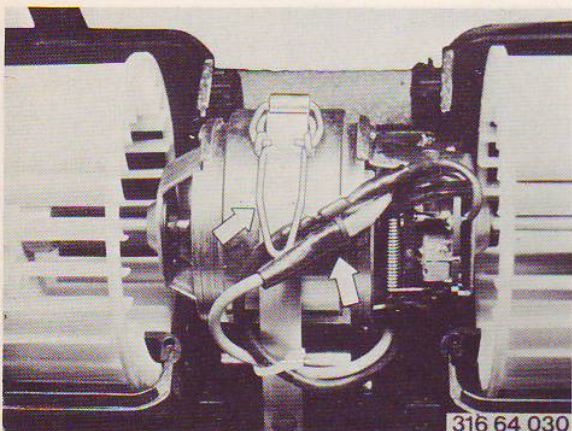
**64 11 531 Heater matrix – removing and installing**  
– Heater removed –

*Pull out the plastic rivet (1).  
Lift the connecting sections away from the retaining pins (2).*



**Release the snap fastener. Remove the upper section of the housing and the outer inlet shrouds.**

*When installing:* The flat section of the outer inlet shrouds faces downwards.

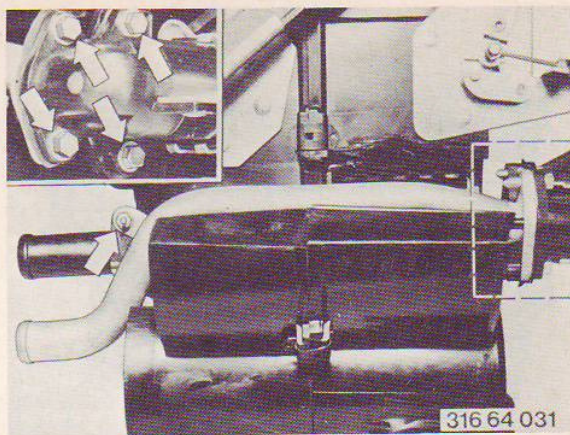


**Release the snap fastener. Separate the cable connectors and lift out the blower motor.**

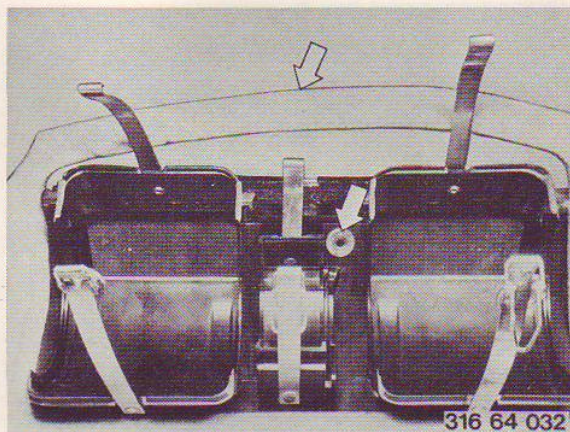
*When installing:* Connect leads so that the colors match.



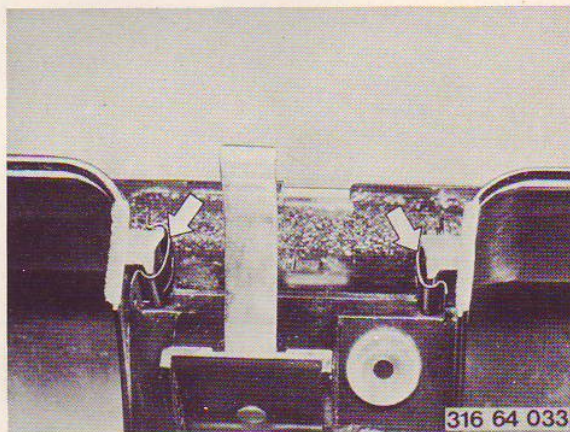
**Detach the water valve from the heater matrix. Loosen the clip and take off the water valve with the supply pipe.**  
*When installing: Check condition of gasket and renew if necessary.*



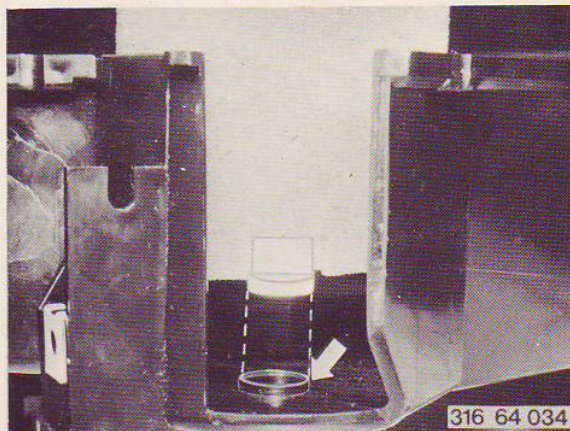
**Partly pull off the foam rubber seal. Loosen the cable strap and push the cable inwards through the rubber grommet.**



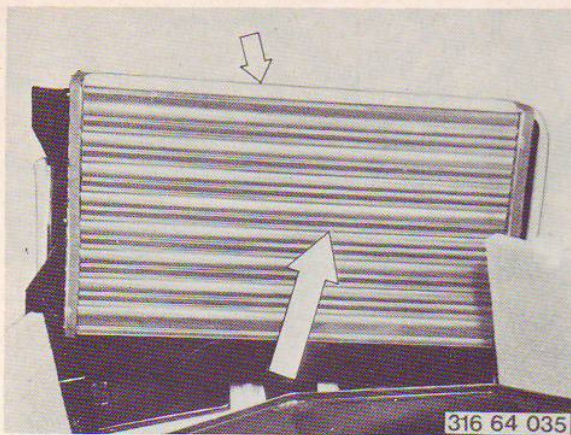
**Loosen the clips and separate the two halves of the housing.**  
*When installing: Make sure that the clips are correctly seated.*



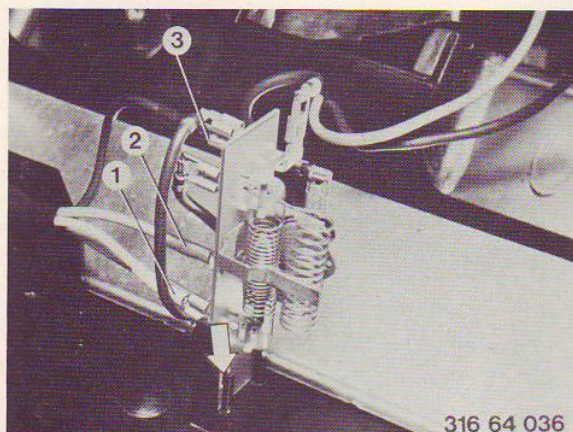
*When installing: Make sure that the air distribution flap pivots are located in the pivot holes.*







**Take out the heater matrix.**  
*When installing:* **Attach a new foam rubber surround with a suitable adhesive.**



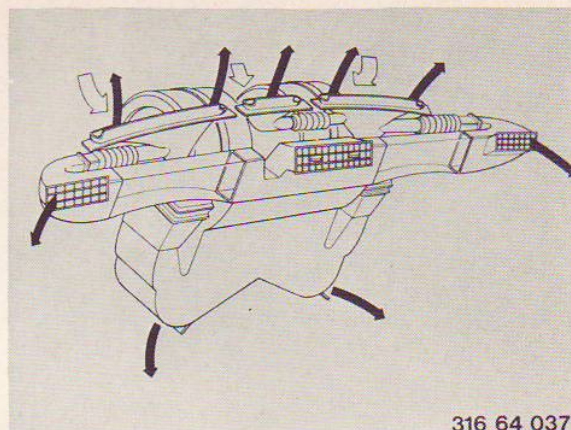
**64 11 591 Heater motor resistor – renewing**  
**– Heater stripped –**

**Remove the resistor from its holder.**  
**Pull off the leads.**

**1 = yellow**  
**2 = green**  
**3 = black**



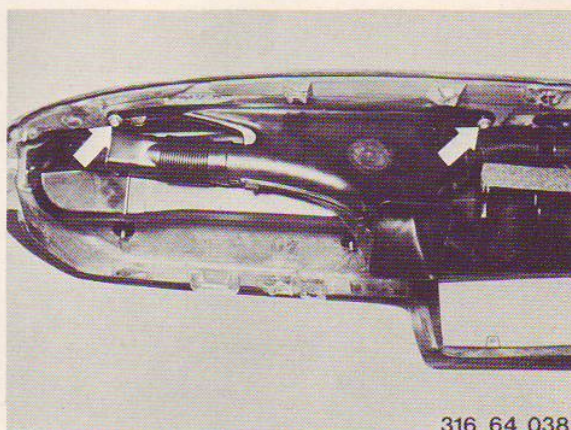
**Layout of demisting outlets and hoses**  
**White arrows = fresh air**  
**Black arrows = heated air**



316 64 037

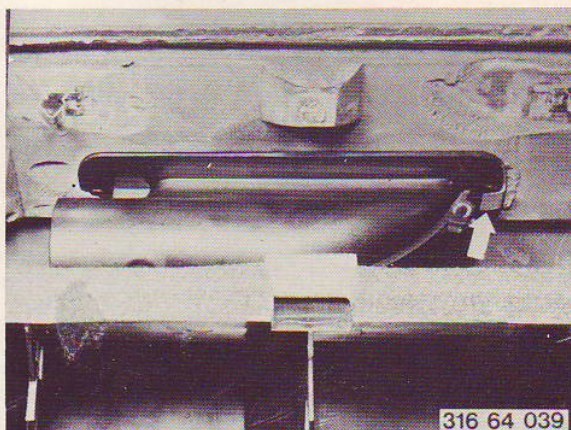
# **64 22 040 All demisting outlets – removing and installing**

**Remove the upper facia trim – 51 45 030.**  
**Remove the nuts, pull off the hoses and detach the right demisting outlet.**



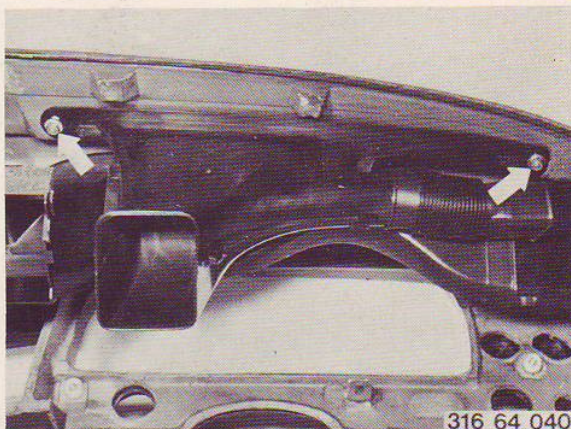
316 64 038

**Bend up the metal tongues and take off the center demisting outlet.**



316 64 039

**Remove the nuts, detach the hose and remove the left demisting outlet.**



316 64 040