

DELTA-PRISMA 4WD

Auxiliary units



Service
Manual

50.

Composition

The heating-ventilation unit consists of a plastic casing containing:

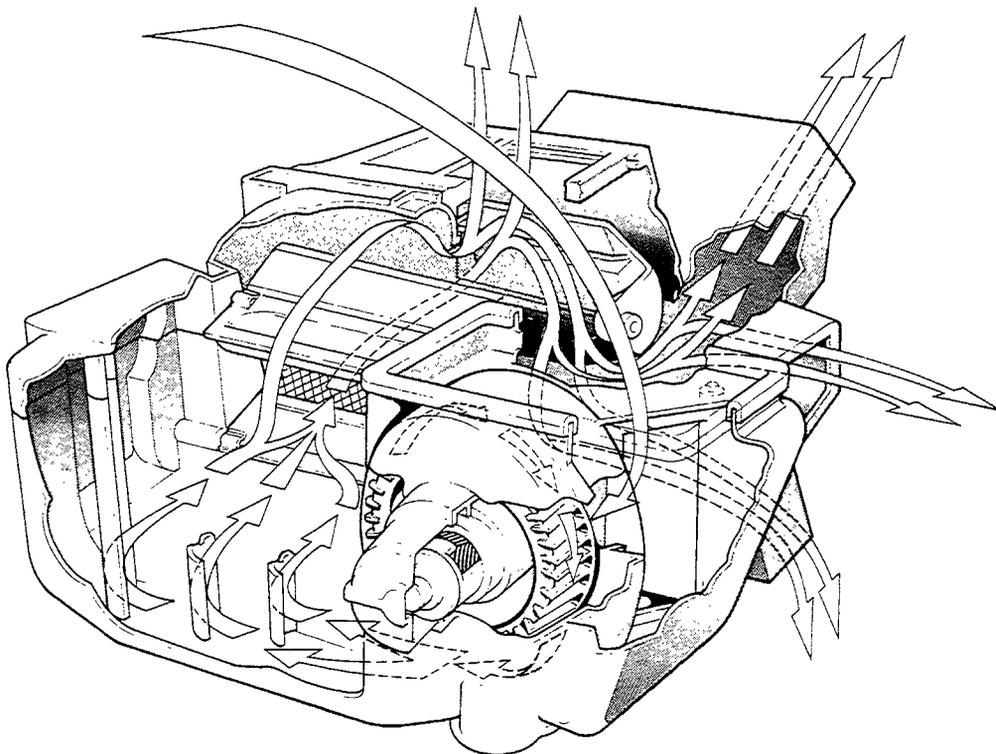
- 1) an electric fan for blowing the air through at different speeds.
- 2) a heater radiator connected to the engine cooling circuit and the relevant coolant inlet tap.
- 3) Three flaps for adjusting and distributing the flow of air inside the unit and the relevant control mechanisms.
- 4) In addition, at the exit point from the heating-ventilation unit, in a box section in the body shell under the windscreen, are located 2 flaps for distributing air inside the car, which are controlled by means of a shaft with a universal joint at either end.

Operation

By operating the inlet flap air gathered from outside the car – in the so-called "fish tank" area underneath the windscreen – is allowed into the heating-ventilation unit.

Operating the blend flaps causes the coolant inlet tap – by means of a special system of levers – to open simultaneously allowing heated coolant into the radiator. In this way varying amounts of air will pass through the radiator and will blend with the air coming directly from outside so as to heat masses of air to different temperatures.

Finally by operating the air distribution flaps by means of a shaft with a universal joint at either end (as well as the previously mentioned flaps) varying amounts of warm air will be distributed along ducts and out into the passenger compartment either through vents in the middle and at the sides of the instrument panel and beneath the windscreen, or in the foot well, thus heating the passenger compartment. To get the unit to act as a ventilator, on the other hand, all the driver (or passenger) need do is to refrain from operating the blend flaps and the relevant coolant inlet tap.

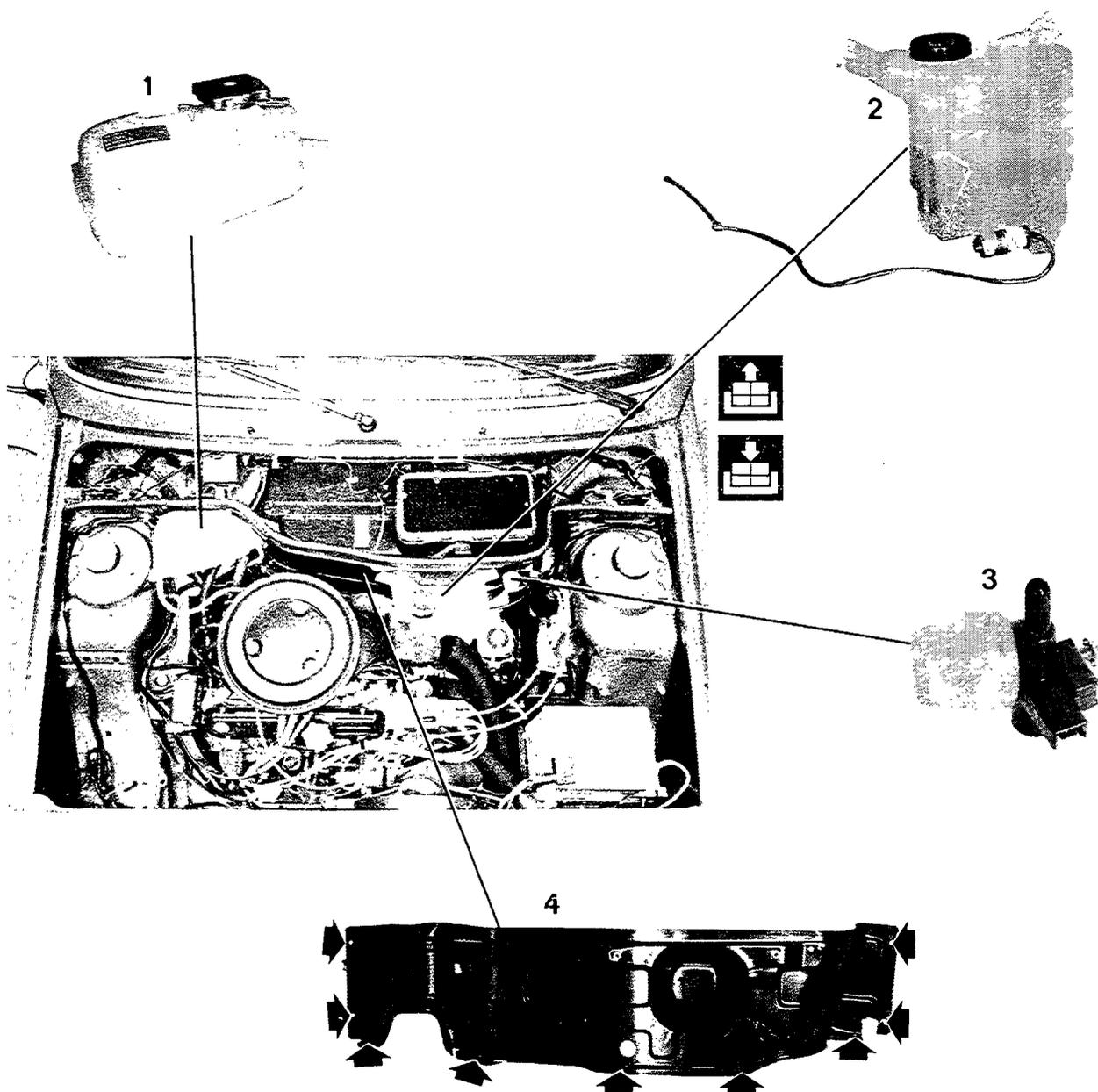


REMOVING – REFITTING

This is done from the engine compartment by releasing the bulkhead (4) from components (1) – (2) – (3) by unscrewing the bolts, respective securing nuts and the windscreen wiper pump connection. Then:

Remove the bulkhead (4) by unscrewing the bolts securing it to the body shell.

- Unscrew the 3 bolts securing the heating-ventilation unit to the rear of the dashboard.



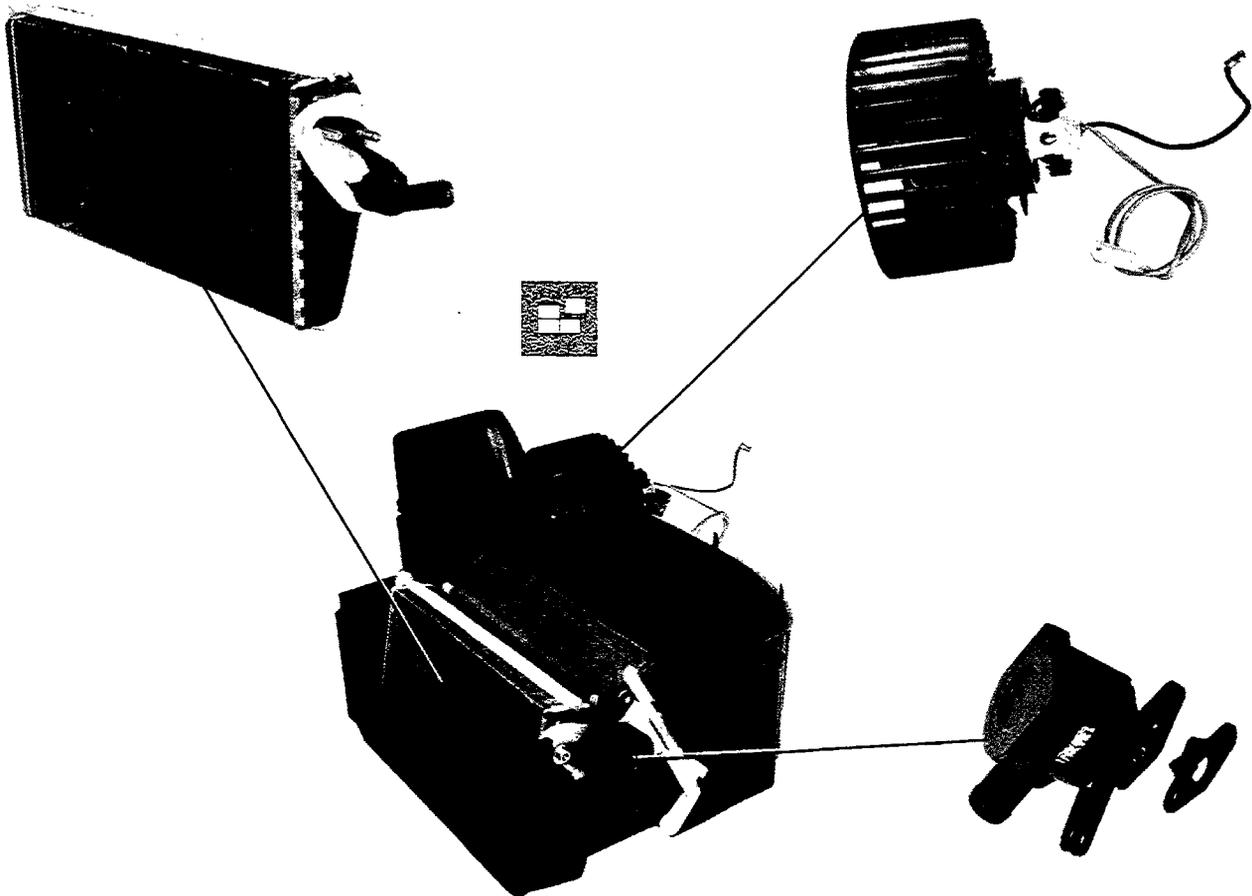
- Disconnect the 2 electric fan connectors.
 - Disconnect the 2 coolant pipes on the heater side.
- Remove the air filter in order to make it easier to get the complete heating-ventilation unit out.

NOTA When dismantling, collect the coolant contained in the radiator.
To refit the heating-ventilation unit, reverse the order of the operations described for its removal, as appropriate.

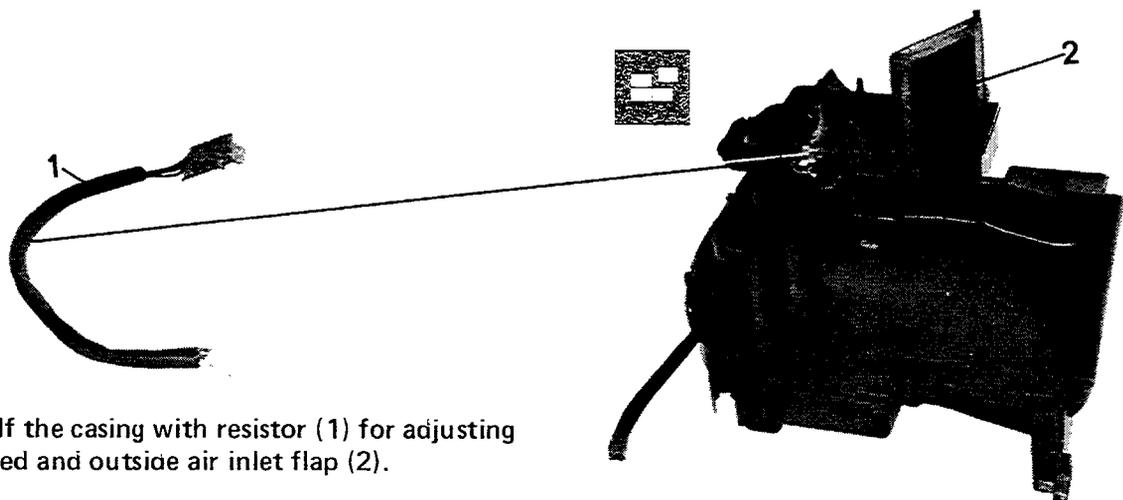
50.

DISMANTLING

- Remove the 5 clips and the bolt retaining the 2 covers.
- Using a screwdriver force the 2 covers, in the areas near the 7 retaining lugs, until they come apart.
- Remove the heater radiator, disconnecting the coolant inlet tap control rod.

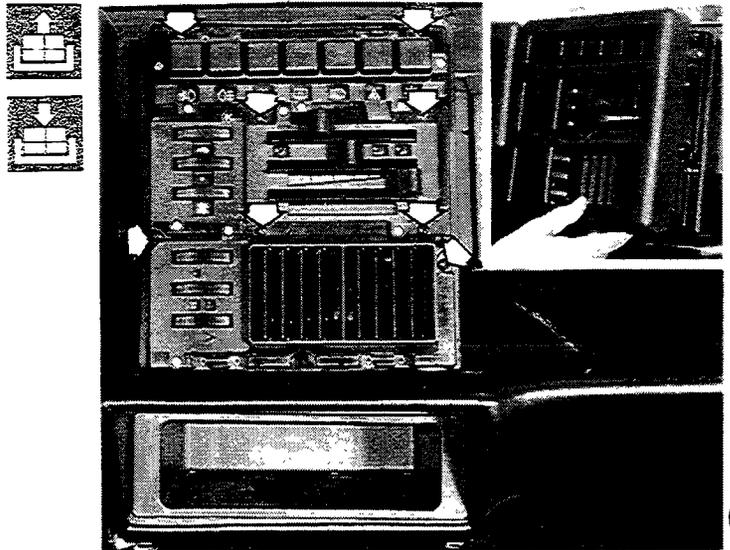


- Remove the electric fan unit by unscrewing the 2 bolts securing it to the bottom half of the casing.

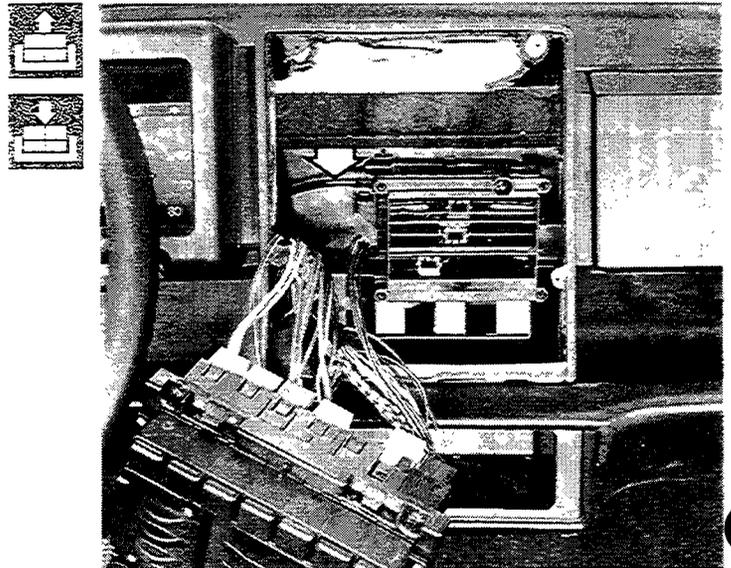


Bottom half the casing with resistor (1) for adjusting the fan speed and outside air inlet flap (2).

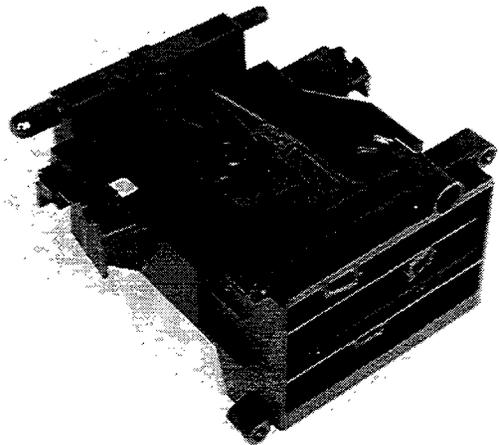
AUXILIARY SERVICES INSTRUMENT
PANEL



Removing - refitting binnacle cowl and auxi-
liary services instrument panel



Removing bowden cables controlling the air
conditioning system and relevant levers



View of the air conditioning system control
lever unit