

Components used to control and regulate air conditioner (in engine compartment)

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Notes:

- Servicing work on refrigerant circuit => Page [87-169](#).
- Perform the following work on completion of repair operations:
Interrogate fault memory => Page [01-101](#)
- Testing cooling capacity => Page [87-154](#).
- Electrical test on all components marked 1) => from Page [01-185](#) onwards.
- All components marked 2) are actuated in final control diagnosis
=> Page [01-70](#).

1. Ambient temperature sensor -G17 1)

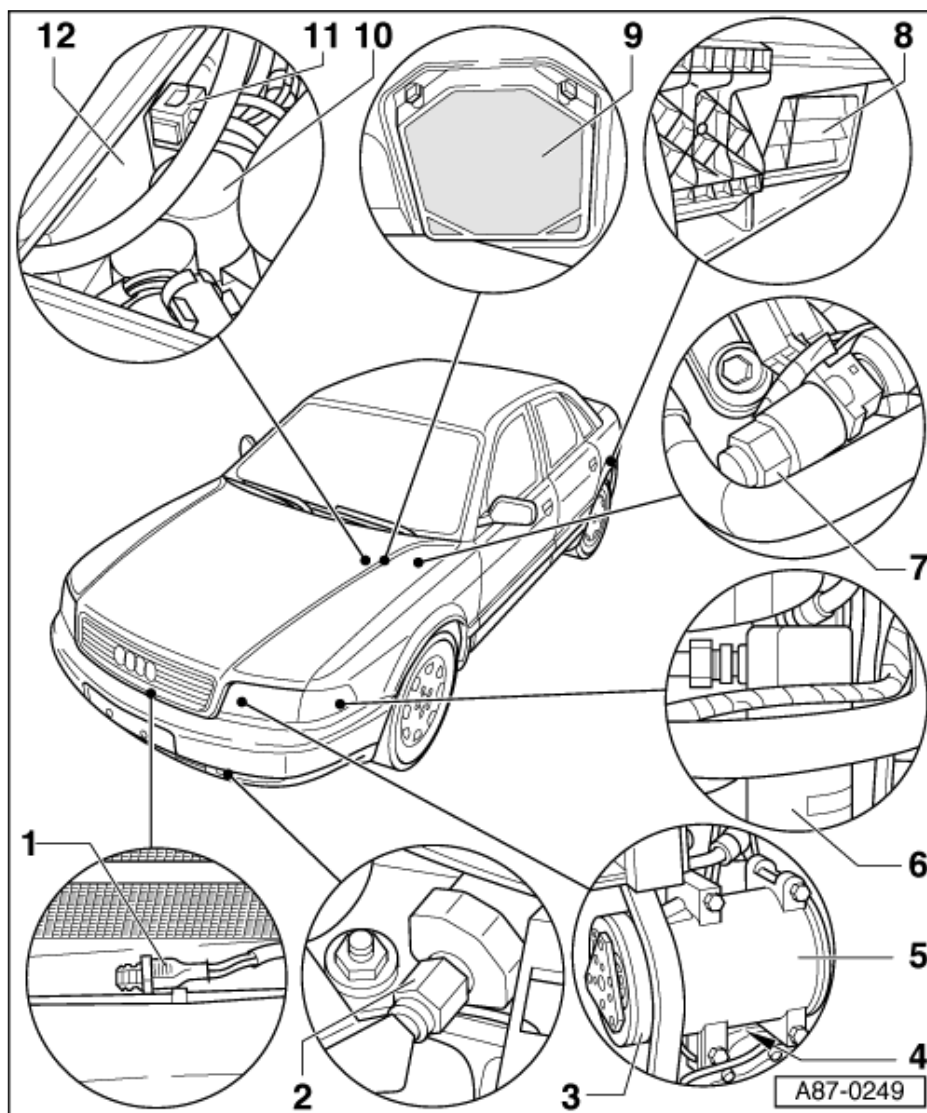
- Removing:
- Remove bumper:

=> [General Body Repairs: Repair Group 63](#)

- Unplug connector from temperature sensor and unclip from mount in air duct
- Resistance values =>Page [01-189](#)

2. Pressure switch

- Vehicles with - E87 up to part number index "H":
High-pressure switch for air conditioner -F23 and for magnetic coupling -F118 1)
- Functional description, removing and installing => Page [87-15](#)



- Vehicles with - E87 from part number index "J" onwards:
Air conditioner pressure switch -F1291)
- Functional description, removing and installing =>

Page [87-17](#)**3. Air conditioning system magnetic coupling -N25 2)**

- Servicing=>from Page [87-33](#) onwards

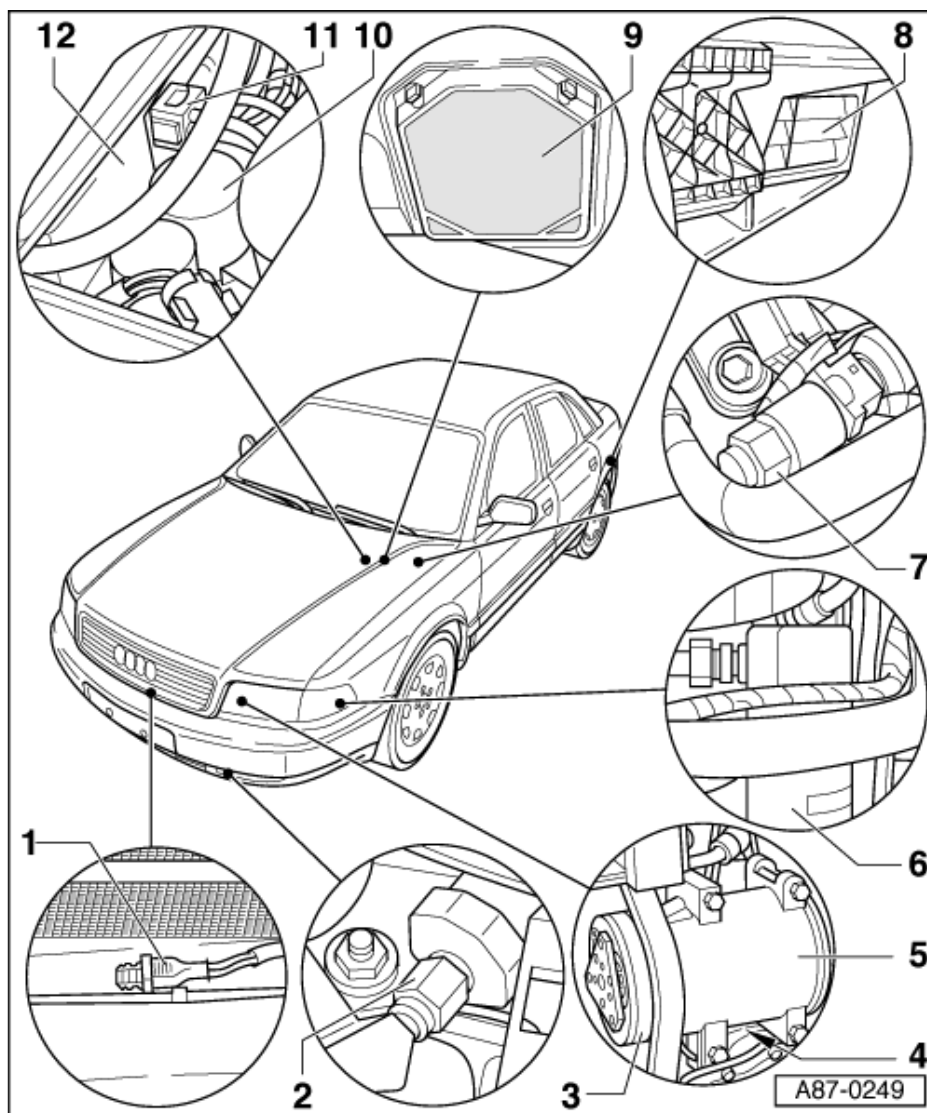
4. Air conditioner compressor speed sender -G111

- Not installed if Denso compressor fitted

5. Compressor

- Detaching and reattaching compressor from/to bracket; removing and installing compressor bracket => from Page [87-23](#) onwards
- Removing and installing ribbed belt:

=> [Appropriate Engine, Mechanics Workshop Manual; Repair Group 13](#)

**6. Reservoir**

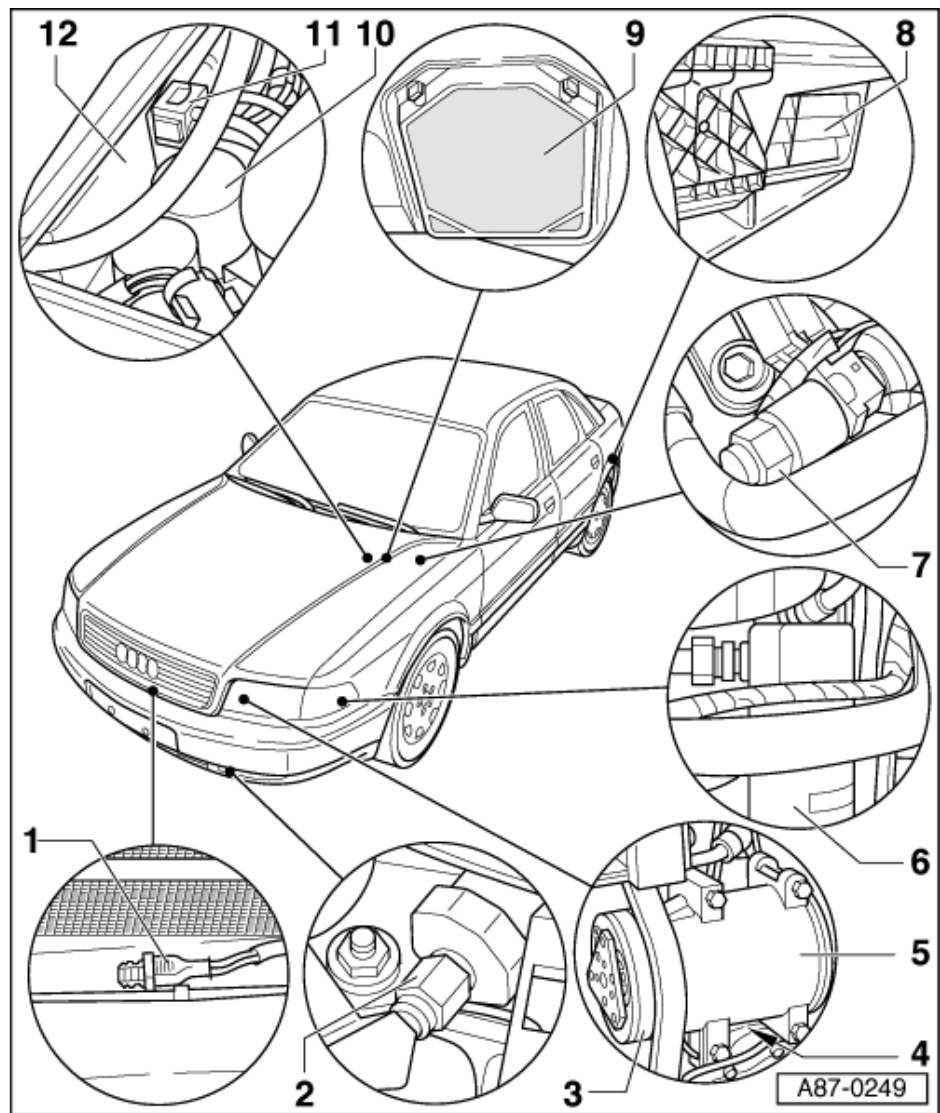
- Only to be removed after draining refrigerant circuit; vehicle must be taken to specialist VW/Audi air conditioner workshop
- Removing and installing => Page [87-182](#)

7. Low-pressure switch for air conditioner - F731)

- Only vehicles with -E87 up to part number index "H"
- Functional description, removing and installing => Page [87-21](#)
- Not required if air conditioner

pressure switch -
F129 is used

- Vehicles without low-pressure switch for air conditioner - F73: Cap with seal must be screwed onto connection for this switch



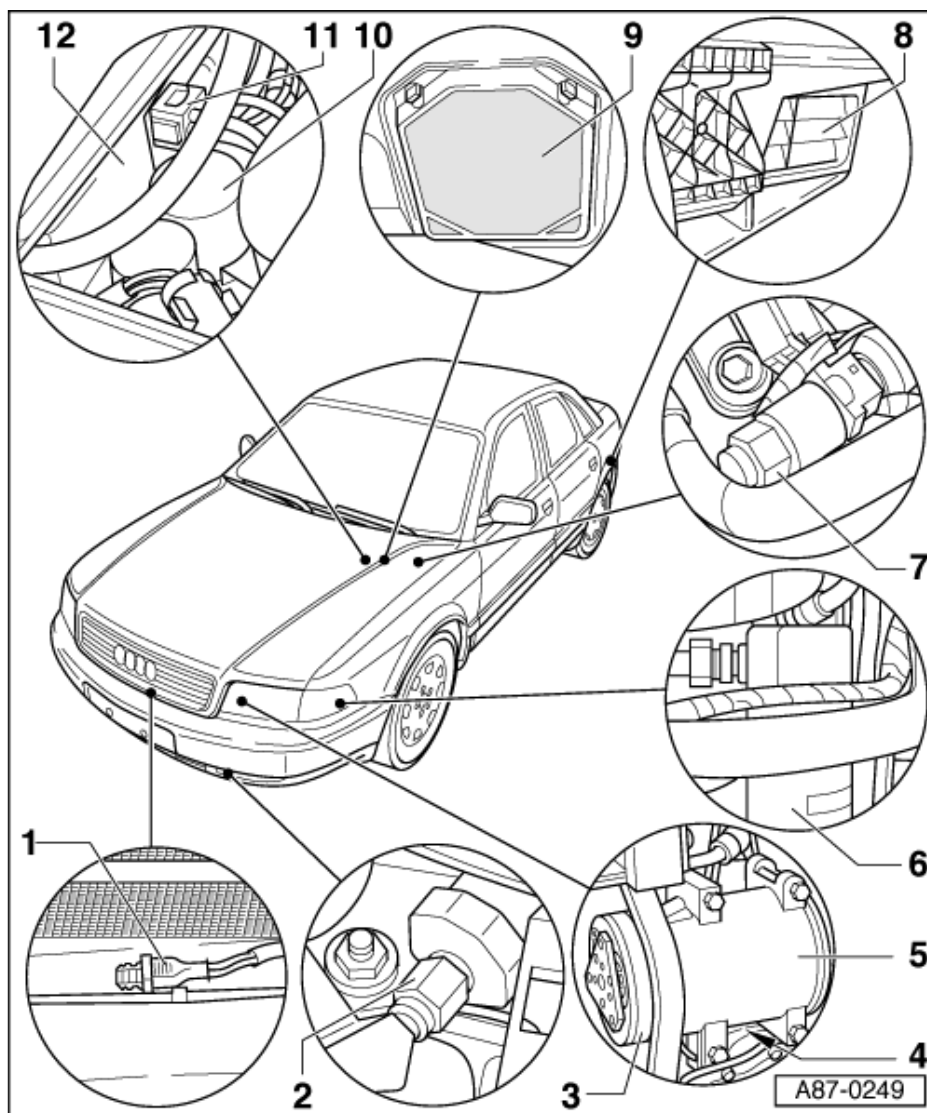
8. Forced air extraction

- Sealing lips in vent opening must move freely and close by themselves
- To ensure that ventilation of passenger compartment functions correctly, air ducts must not be obstructed by lining of luggage compartment (up to rear shelf)

9. Dust and pollen filter

- Removing and installing=>Page [87-73](#)
- Additional filter element with activated charcoal fitted in vehicles with air quality sensor - G238=>Page

87-74



10. Pump/valve unit 2)

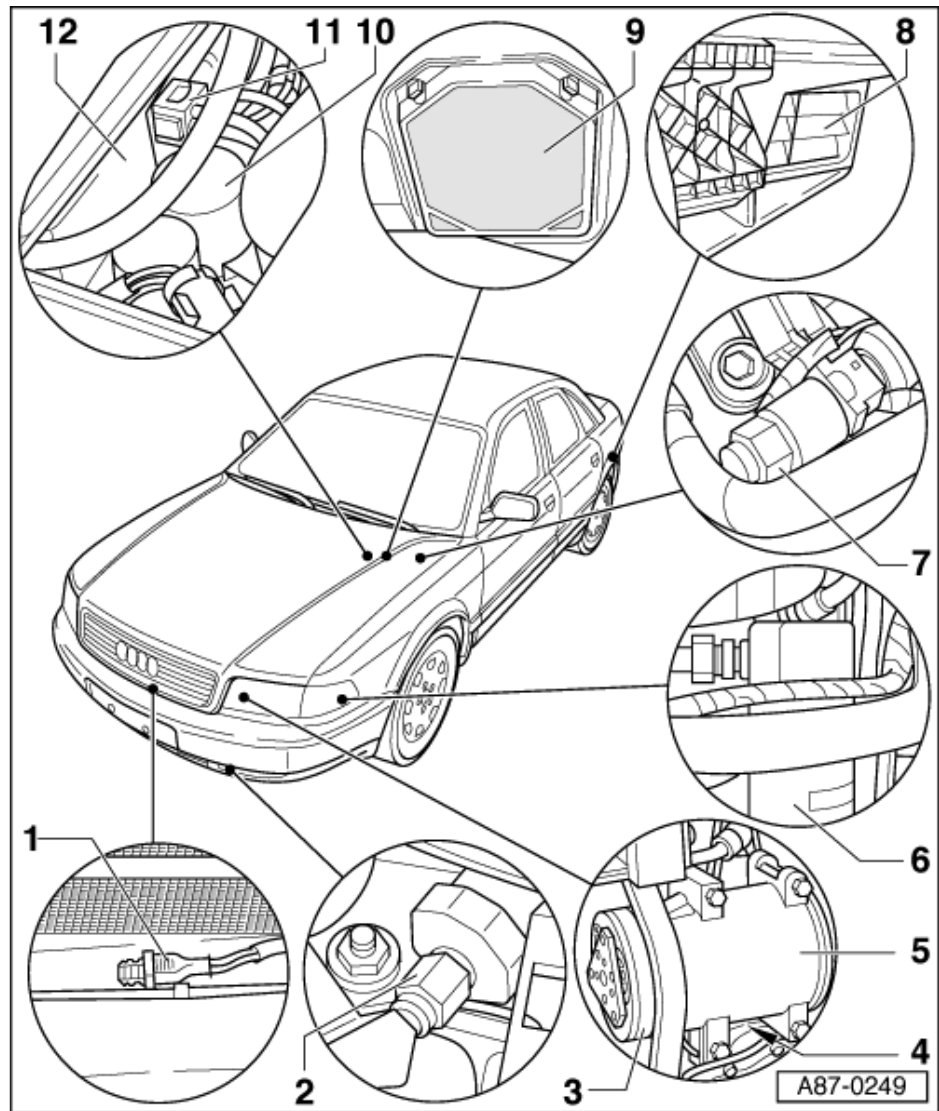
- Consists of heat regulation valves -N175 and -N176 and coolant circulation pump -V50
- Checking function => Page [01-196](#)
- Removing and installing=>Page [87-65](#)
- Replacing => Page [87-71](#)

11. Fresh air intake duct temperature sensor - G89 1)

- Fitting location shown in vehicles without air quality sensor
- Removing and installing=>Page [87-59](#)

12. Air flow flap control motor -V71 2)

- With air flow flap control motor potentiometer - G113
- Removing and installing=>Page [87-53](#)

**13. Evaporator**

- Only to be removed after draining refrigerant circuit; vehicle must be taken to specialist VW/Audi air conditioner workshop
- Removing and installing
=> Page [87-194](#)

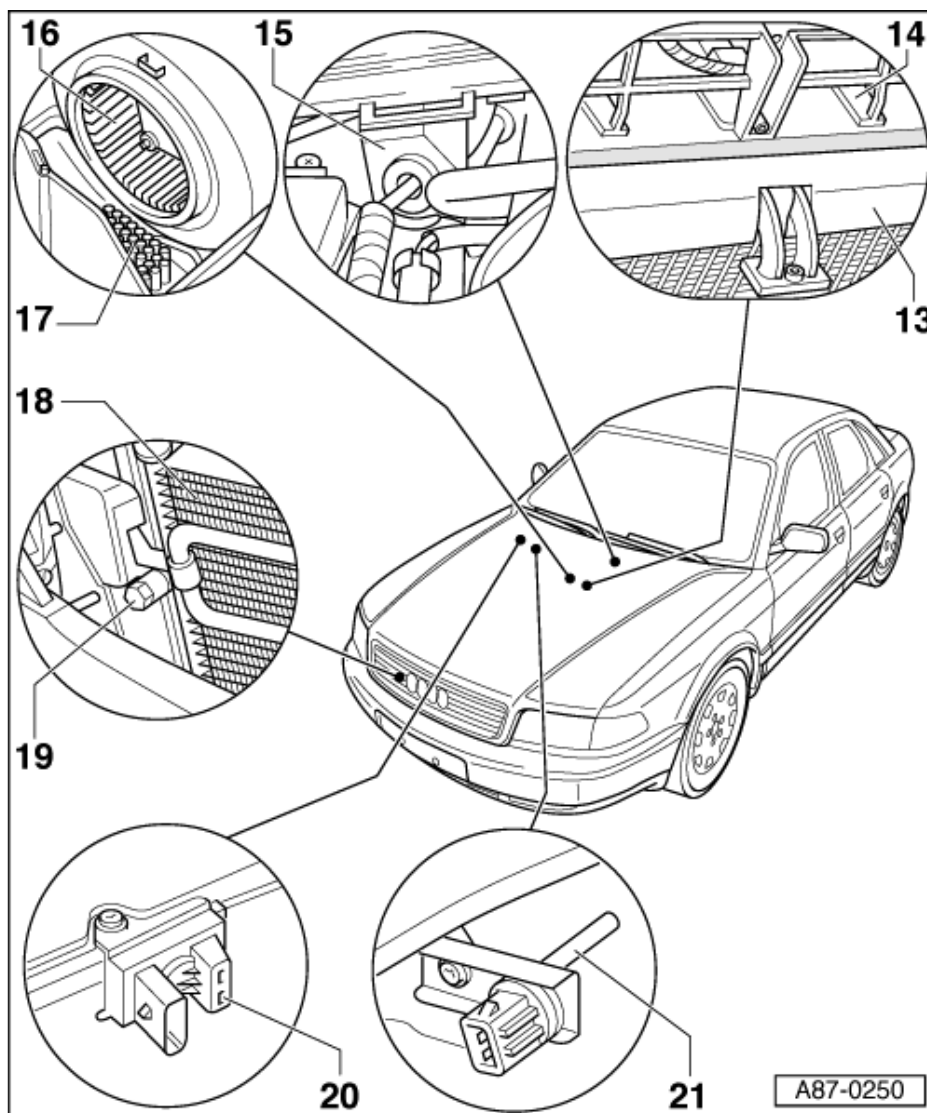
14. Opening for air recirculation mode**15. Air recirculation flap control motor -V113 2)**

- With air recirculation flap control motor potentiometer - G143
- Removing and installing=>Page [87-60](#)

16. Fresh air blower -V2

2)

- Removing and installing=>Page [87-57](#)



17. Fresh air blower control unit -J126 2)

- Removing and installing=>Page [87-64](#)

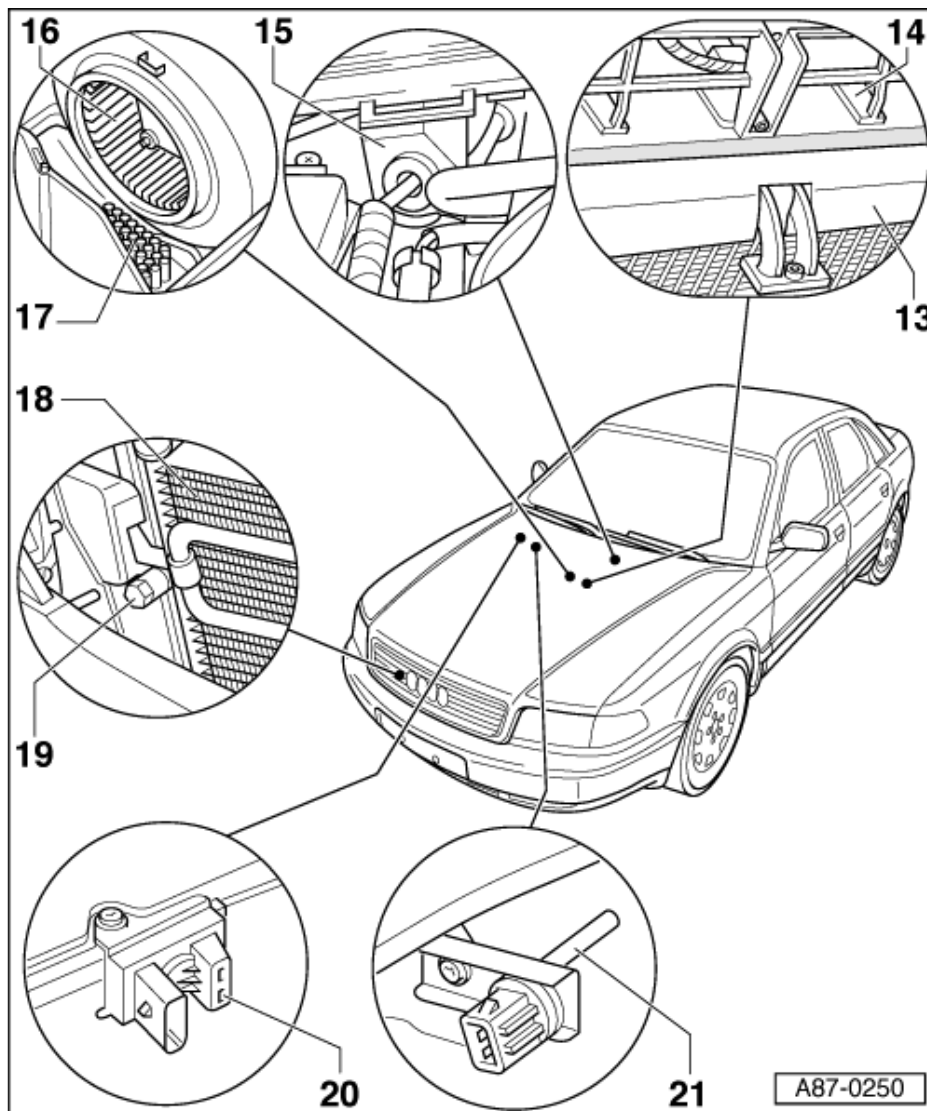
18. Condenser

- Only to be removed after draining refrigerant circuit; vehicle must be taken to specialist VW/Audi air conditioner workshop
- Removing and installing => Page [87-186](#)

19. Service connection

- For measurement, drainage and filling at specialist VW/Audi air conditioner workshops

- Cap with seal; always screw on



20. Air quality sensor - G238

- Gradual introduction in model year 1998
- Only vehicles with operating and display units -E87 from part number index "J" onwards
- Functional description => Page [87-76](#)
- Testing => Page [87-78](#)
- Removing and installing=>Page [87-85](#)

21. Fresh air intake duct temperature sensor - G89 1)

- Fitting location shown in vehicles with air quality sensor

□ Removing and installing=>Page [87-59](#)

