Component Location Overview - Components Inside Front Passenger Compartment, Right Side of Passenger Compartment

1 - Right Footwell Vent
- Overview. Refer to → Chapter „Overview - Air Routing and Air Distribution in Passenger Compartment, Front“.

2 - Air Duct for Glove Compartment Cooling
- Not installed on all vehicles (optional equipment, depending on the vehicle version). Refer to → Chapter „Air Guide for Glove Compartment Cooling, Removing and Installing“.

3 - Right Front Seat
- Depending on the vehicle equipment level with seat heating, seat ventilation and massage function
- There are different versions. Refer to the Parts Catalog.
- Information about seat heating function. Refer to → Chapter „Front Seat Heating“.
- Information about seat ventilation. Refer to → Chapter „Seat Ventilation“.
- Information about the massage function. Refer to → Chapter „Seat Ventilation“.
- Seat heating, servicing. Refer to → Body Interior; Rep. Gr.74; Front Seat Covers and Cushions; Overview - Seat Heating Element.
- Seat ventilation, servicing. Refer to → Body Interior; Rep. Gr.72; Front Seats; Component Location Overview - Electric and Electronic Components.
- Servicing the massage function. Refer to → Body Interior; Rep. Gr.72; Front Seat Pneumatic System; Overview - Pneumatic System.

4 - Right Condensation Water Drain
- Checking. Refer to → Chapter „Condensation Water Drain, Checking“.
- Removing and installing. Refer to → Chapter „Condensation Water Drain, Removing and Installing“.
5 - Heater and A/C Unit, Right Side
   - Overview. Refer to Chapter „Overview - Heater and A/C Unit”.
   - Removing and installing. Refer to Chapter „Heater and A/C Unit, Removing and Installing”.

6 - Right Footwell Vent Temperature Sensor -G262-
   - To check. Refer to Vehicle Diagnostic Tester in the “Guided Fault Finding” function.
   - Removing and installing. Refer to Chapter „Right Footwell Vent Temperature Sensor -G262-, Removing and Installing”.

7 - Evaporator Vent Temperature Sensor -G263-
   - To check. Refer to Vehicle Diagnostic Tester in the “Guided Fault Finding” function. Refer to Wiring diagrams, Troubleshooting & Component locations.
   - Removing and installing. Refer to Chapter „Evaporator Vent Temperature Sensor -G263-, Removing and Installing”.

8 - Windshield Defroster Vent
   - Removing and installing. Refer to Body Interior; Rep. Gr.70; Instrument Panel; Front Center Defroster Vent, Removing and Installing.

9 - Sunlight Photo Sensor -G107-
   - Removing and installing. Refer to Chapter „Sunlight Photo Sensor -G107-, Removing and Installing”.
   - Check. Refer to Vehicle Diagnostic Tester in the “Guided Fault Finding” Function.

10 - Broadband Nozzle
    - There are different versions. Allocation. Refer to the Parts Catalog.
    - Removing and installing. Refer to Body Interior; Rep. Gr.70; Instrument Panel; Instrument Panel Vent, Removing and Installing.

11 - Right Side Window Defroster Vent
     - Overview. Refer to Chapter „Overview - Air Routing and Air Distribution in Passenger Compartment, Front”.

12 - Instrument Panel Vent Button -E815-
     - Only on vehicles with a “Mix” or “High” A/C system.
     - Removing and installing. Refer to Electrical Equipment; Rep. Gr.96; Controls; Buttons in Instrument Panel, Removing and Installing.

13 - Right Front Upper Body Vent Temperature Sensor -G386-
     - To check. Refer to Vehicle Diagnostic Tester “Guided Fault Finding” function. Refer to Wiring diagrams, Troubleshooting & Component locations.
     - Removing and installing. Refer to Chapter „Right Front Upper Body Vent Temperature Sensor -G386-, Removing and Installing”.

14 - Fresh Air Blower -V2- with Fresh Air Blower Control Module -J126-
     - There are different versions. Refer to the Parts Catalog.
     - Check. Refer to Vehicle Diagnostic Tester in the “Guided Fault Finding” function.
     - Removing and installing. Refer to Chapter „Fresh Air Blower -V2- with Fresh Air Blower Control Module -J126-, Removing and Installing”.

15 - Dust and Pollen Filter (with or without Activated Charcoal Filter Element)
     - Follow the replacement intervals. Refer to Maintenance Intervals; Rep. Gr.03.
     - There are different versions. Allocation. Refer to the Parts Catalog.
With activated charcoal filter element. There is an Air Quality Sensor -G238- installed on these vehicles. Refer to Chapter „Dust and Pollen Filter with Activated Charcoal Insert, Element Information“.

- Removing and installing. Refer to Chapter „Dust and Pollen Filter, Removing and Installing“.
**Fresh Air Intake, Checking**

**Procedure**

- Turn off the ignition.

- Remove the plenum chamber cover -A-. Refer to → Body Interior; Rep. Gr.50; Bulkhead; Plenum Chamber Cover, Removing and Installing.

**Note**

To prevent water from running via intake shaft -B- into the heater and A/C unit when plenum chamber cover -A- is installed, plenum chamber cover -A- must not be damaged. In addition the plenum chamber cover -A- must be correctly and completely engaged in the windshield frame -C-.

- Check the plenum chamber cover -A- for damage.

- Check the catch on the plenum chamber cover -A- to the windshield frame -C- for damage.

**Note**

The locking mechanism of the plenum chamber cover -A- in windshield frame -C- prevents water from running between the frame and the plenum chamber cover into intake shaft -B- of the heater and A/C unit. Refer to → Body Exterior; Rep. Gr.50; Bulkhead; Plenum Chamber Cover, Removing and Installing.
Dust and Pollen Filter, Removing and Installing

Note

♦ Dust and pollen filter replacement interval. Refer to → Maintenance Intervals; Rep. Gr.03.

♦ There are different versions of the dust and pollen filter as replacement part without and with filter insert with activated charcoal. Refer to the Parts Catalog. A dust and pollen filter with an activated charcoal filter insert is installed in the Audi Q7.

♦ In the future, a dust and pollen filter with a filter element with activated charcoal and with a special anti-allergen effect can be installed. The implementation is not yet finalized. Refer to the Parts Catalog.

♦ Clean the surrounding area of the dust and pollen filter in the heater and A/C unit shaft before installing a new filter.

♦ In vehicles with driving school equipment, the pedal assembly of the driving school equipment must be removed if necessary (depending on the version, service disconnect points are present on the driving school pedals). Relevant information is available in the driving school equipment installation instructions (different manufacturers and versions). Refer to Driving School Equipment Installation Instructions.

♦ Depending on the version, for some countries with high dust levels (for example China), an additional dust filter may be installed instead of fresh air intake grille. Check and replace these if necessary. Refer to → Chapter „Fresh Air Intake, Removing and Installing“.

Removing

– Move the right front seat (front passenger seat) as far back as possible.

– Turn off the ignition.

– Remove screw clips -A-.

– Loosen the insulation -B- from the heater and A/C Unit air intake housing and remove.

– Cover floor carpet in area beneath dust and pollen filter with paper.

– Loosen the catches -A- and remove the shift cover -B-. 

Remove dust and pollen filter -E- from shaft -E- of the air intake housing -arrow-.

**Installing**

Install in reverse order of removal. Note the following:

- Clean the air intake housing via the shaft for the dust and pollen filter (for example with a vacuum cleaner after removing the dust and pollen filter -E-).
- Insert the dust and pollen filter -E- on the proper side ("arrow"-D- points to the fresh air blower).

**Note**

- There are different versions of the dust and pollen filter as replacement part without and with filter insert with activated charcoal. Pay attention to the correct version. Refer to the Parts Catalog.
- If the catches -A- do not hold correctly, the shift cover -B- can also be secured with bolts -C- (for example 3.5 or 3.9 x 16 mm bolts, tightening specification 1 Nm). Refer to the Parts Catalog.
Dust and Pollen Filter with Activated Charcoal Insert, Element Information

- There are different versions of dust and pollen filter -D- without and with a filter insert with activated charcoal. Refer to the Parts Catalog. A dust and pollen filter with an activated charcoal filter insert is installed in the Audi Q7.

- The activated charcoal filter element functions as a dust and pollen filter, however in addition the activated charcoal filter can also filter out gaseous pollutants, for example, ozone, benzene, nitrogen dioxide from the air flow. The basic task of the activated charcoal layer in the dust and pollen filter is to keep load peaks out of the vehicle interior.

- The activated charcoal also has the task of removing certain gaseous contaminants from the air flowing through. The activated charcoal layer in the dust and pollen filter reacts differently to various pollutants in the air:

- In the future, a dust and pollen filter with a filter element with activated charcoal and with a special anti-allergen effect can be installed. The implementation is not yet finalized. Refer to the Parts Catalog.

- Certain pollutants bond permanently in the activated charcoal layer.

- Others are converted into innoxious bonds as in a catalytic converter.

- For the rest the activated charcoal works as a condenser (capacitor). With increasing load pollutants are absorbed, until a certain saturation is reached. If the amount of pollutants decreases, the activated charcoal layer continuously releases the absorbed particles.

- Because a portion of the gaseous pollutant particles as well as dust and pollen bond permanently to the activated charcoal layer, the dust and pollen filter should be changed more often than scheduled under the following conditions:
  - If vehicle is driven in areas with constant strong air pollution. the activated charcoal layer in the dust and pollen filter is saturated faster than planned.
  - If vehicle is predominantly driven with the “automatic recirculating air mode” switched off.

- If possible, vehicles with A/C system with one Air Quality Sensor -G238- should always be operated in “automatic air recirculation” mode. However, if it is desired or necessary to switch this mode off, the following must be observed:
- Activated charcoal layer in dust and pollen filter becomes saturated after a certain time.

- A saturated filter can no longer absorb pollutants and allows them to pass unhindered.

The most important task of the dust and pollen filter activated charcoal filter element and the Air Quality Sensor -G238- is keep the load peaks out from the passenger compartment. For this the following must be observed:

– If the vehicle is driven in an area with relatively clean air with few air pollutants. The switch-over from fresh air mode to recirculating air mode will occur at a different time than on a vehicle driven in an area that has high air pollutants, for example, in an industrial area.

– Independently of the basic load, the change-over from fresh to recirculating mode always occurs, when the pollutant-load increases (for example, when driving to through an exhaust cloud of a diesel truck).
**ETKA**

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<th>Pos</th>
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The diagram illustrates an air-conditioning system with electronic regulation. The parts listed are essential components of the system, each with a specific role in its functionality. The table provides a detailed description of each part, including its model and quantity. The diagram highlights the location of each part, aiding in the understanding of the system's assembly.
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<tr>
<th>Pos</th>
<th>Part Number</th>
<th>Description</th>
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