

* Implausible signal /SP	- Open circuit or short in wiring between dash panel insert and -E87. Dash panel insert defective.	- Use current flow diagram to locate and eliminate short circuit, open circuit in wiring or fault in pin assignment. Check signal from dash panel insert (=>Reading measured value block in vehicles up to model year 2001 Page 58 ).
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**Notes:**

- ◆ The refrigerant temperature is calculated by the dash panel insert and transferred to the operating and display unit -E87. If the coolant temperature rises above 118 °C, in vehicles with compressor with magnetic clutch -N25 the dash panel insert switches the output to earth and the -E87 switches the magnetic clutch -N25 off. In vehicles with compressor with regulating valve -N280 the compressor output is reset=> Page 69 (Reading measured value block in vehicles from model year 2002).
- ◆ In vehicles up to model year 2001 the "coolant temperature signal" together with the "ignition off period signal" is transmitted via a dedicated wire by the dash panel insert. In vehicles from model year 2002 the "coolant temperature signal" is transmitted via the drive data bus.

=> Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder

- ◆ For the Audi allroad the air conditioner changeover does not take place with the switch from model year 2001 to 2002 but gradually in model year 2002 (but for vehicles with 4.2l engine at production start)

=> Parts List

Output on the V.A.G 1551 printer	Possible causes of fault	Fault remedy
01592 Air quality sensor -G238	Displayed in vehicles from model year 2002 only	
Electrical fault in circuit /SP	- The -E87 was not encoded as specified. - Short circuit, open circuit or error in connector wiring between -G238 and -E87 Air quality sensor -G238 defective	- Checking encoding of -E87 => Page 9 . - Use the current flow diagram to locate and eliminate short circuit (to earth or positive), open circuit or error in connector wiring between -G238 and -E87 Renew air quality sensor -G238
Defect	- Open circuit in power supply or in earth connection to -G238 Air quality sensor -G238 defective	- Locate and eliminate open circuit in power supply or in earth connection to -G238 Renew air quality sensor -G238

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**Notes:**

- ◆ The air quality sensor -G238 is only present for vehicles from model year 2002.
- ◆ Under certain circumstances interference from radio waves (e.g. radio enthusiasts or police radios) may cause sporadic fault entries for air quality sensor -G238. Since this does not impair the functioning of the -E87, this fault entry can be erased as necessary.

Output on the V.A.G 1551 printer	Possible causes of fault	Fault remedy
01593 Heated windscreen -Z2	Displayed in vehicles from model year 2002 only	
Short to positive/SP Short to earth/SP	- The -E87 was not encoded as specified.	- Checking encoding of -E87 => Page 9 .