

## Checking coolant temperature sender -G62-

### Special tools and workshop equipment required

- ◆ Fault reader -V.A.G 1551- or vehicle system tester -V.A.G 1552- with diagnosis cable -V.A.G 1551/3-
- ◆ Adapter -V.A.G 1598/22-
- ◆ Hand multimeter -V.A.G 1526C- or multimeter -V.A.G 1715-
- ◆ Adapter set -V.A.G 1594C-
- ◆ Current flow diagram

### Test procedure

- Connect fault reader -V.A.G 1551- or vehicle system tester -V.A.G 1552- and select control unit for engine electronics with "address word 01". Engine must be idling. (Connect fault reader and select engine electronics control unit → **Chapter.**)

Indicated on display:

Rapid data transfer	HELP
Select function XX	

- Press keys **[0]** and **[8]** for function "Read measured value block" and confirm entry with **[Q]** key.

Indicated on display:

Read measured value block	HELP
Input display group number XXX	

- Press keys **[0]**, **[0]** and **[7]** for "Display group number 7" and confirm entry with **[Q]** key.

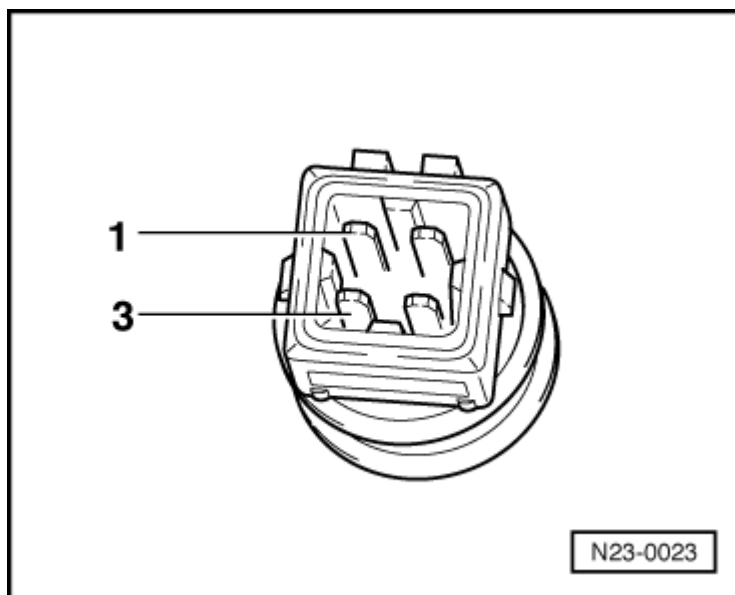
- Indicated on display:

Read measured value block 7	->
15.4 °C	15.9 °C 16.7 °C

- Check value for coolant temperature in display zone 4.

The temperature value must rise equally without interruption.

- In the event of a fault, the fuel temperature is displayed as a substitute.
- If no realistic display appears in display zone 4 or the fuel temperature is displayed as a substitute, check coolant temperature sender -G62- and wiring connections to sender as follows:
  - Press **[→]** button.
  - Press keys **[0]** and **[6]** for function "End data transfer" and confirm entry with **[Q]** key.
  - Switch off ignition.
  - Pull connector off coolant temperature sender -G62- → **Chapter.**
  - Measure resistance between sender contacts 1+3.



For specification see diagram.

Scale A shows resistance values for temperature range 0..50 °C and scale B the values for temperature range 50..100 °C.

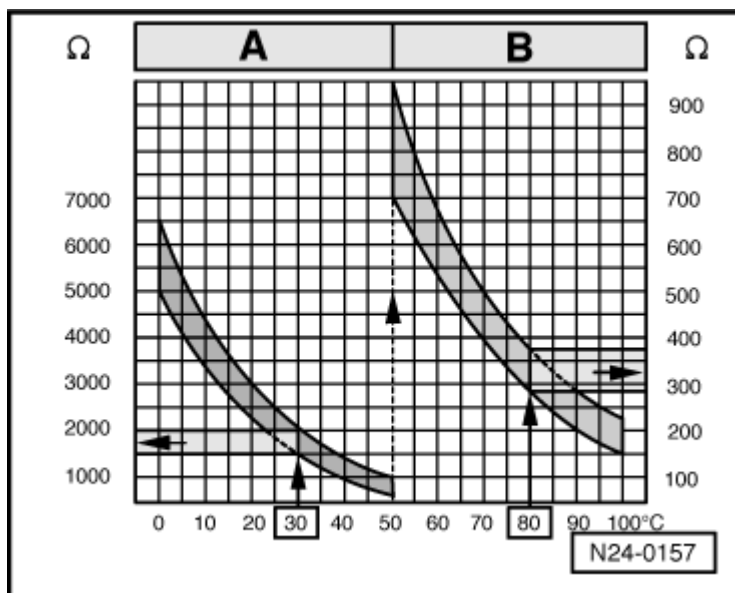
Examples:

- ◆ 30 °C corresponds to a resistance of 1500..2000 Ω
- ◆ 80 °C corresponds to a resistance of 275..375 Ω

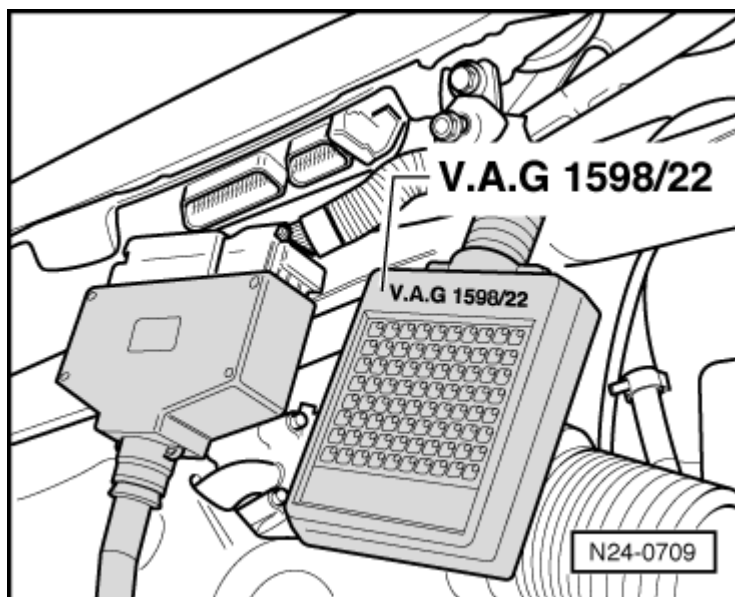
If the specification is not reached:

- Renew the coolant temperature sender - G62-

If the specification is attained:



- Connect adapter -V.A.G 1598/22- to control unit wiring harness.



- Check wiring between adapter and 4-pin connector for open circuit using current

flow diagram. Contact 3+socket 54 contact 1+socket 70.

Cable resistance: max. 1.5  $\Omega$ .

- Also check wiring for short to one another, short to vehicle earth and short to battery positive.

Specification:  $\infty \Omega$ .

If no fault in lines is detected:

- Renew diesel direct injection system control unit -J248- → **Chapter**

