

Checking map-controlled engine cooling thermostat -F265-

Special tools and workshop equipment required

- ◆ Hand-held multimeter -V.A.G 1526 B-



- ◆ Auxiliary measuring set -V.A.G 1594 C-



Test condition

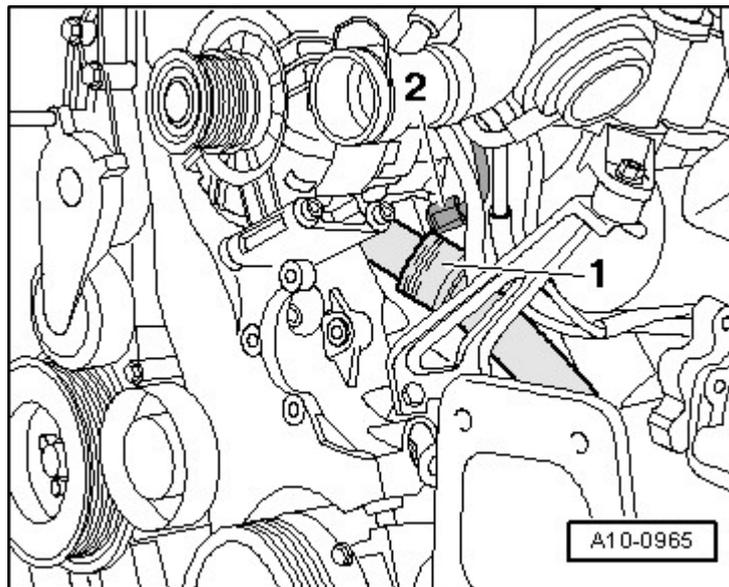
- Engine cold

Testing internal resistance of heating element

- Unplug connector -2- at map-controlled engine cooling thermostat -F265-.
- Connect multimeter to thermostat to measure resistance.
- Specification: 14 ... 16 Ω at a temperature of 25 °C.

If specification is not obtained:

- Renew thermostat → [Chapter](#).



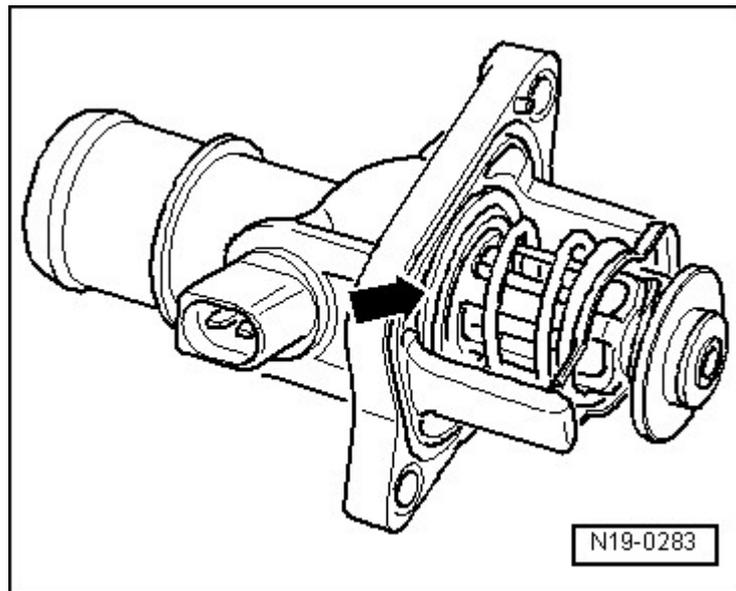
Function test of thermostat

- Remove map-controlled engine cooling thermostat -F265- → [Chapter](#).
- Check the thermostat when cold.

- The large valve head -arrow- must seal off the connection flange all the way round.

If not:

- Renew thermostat → Chapter.



- Connect the contacts of the thermostat with a battery using test leads from - V.A.G 1594 C-.

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Using pliers, carefully place the thermostat vertically into a pot of boiling water up to the flange.

**Note**

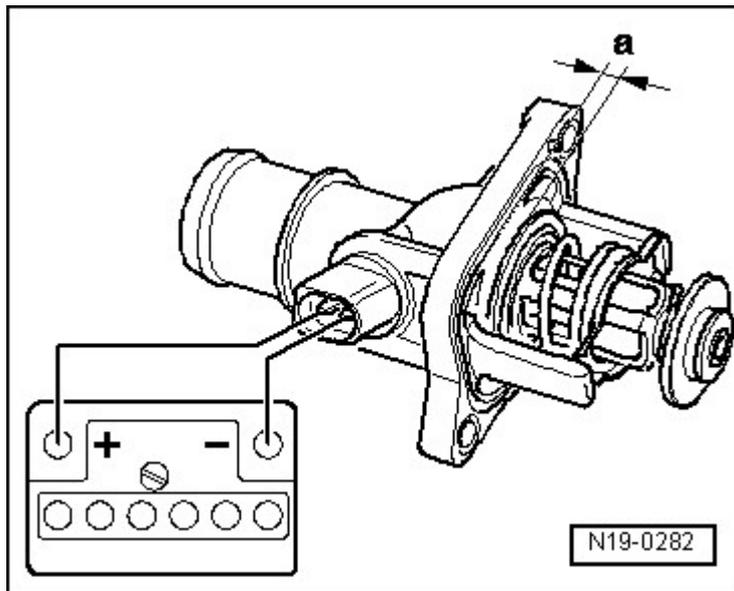
- ◆ *The electric heating element now additionally heats the wax in the thermostat.*
- ◆ *Do not expose the thermostat to air during this test, otherwise the expansion element can become damaged.*
- Check whether the minimum travel of $-a = 7 \text{ mm}$ is attained after 10 minutes.

If minimum travel is attained:

- Disconnect voltage supply from battery.

If the minimum travel is not attained:

- Renew thermostat → **Chapter**.
- Interrogate and, if necessary, erase the fault memory for the engine control unit,



as faults are stored when the connector is unplugged → [Vehicle diagnostic tester](#).