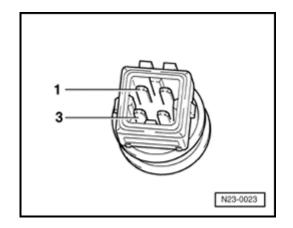
Engine Coolant Temperature (ECT) sensor, checking

Notes:

- ◆ To functionally check the Engine Coolant Temperature (ECT) sensor ⇒ Repair Group 01, Read measuring value block, display group 001, display field 1.
- Component locations ⇒ page 28-1.
- Disconnect ECT sensor harness connector.



- Switch Fluke 83 multimeter to resistance range and measure between ECT sensor terminals 1 (signal) and 3 (GND).

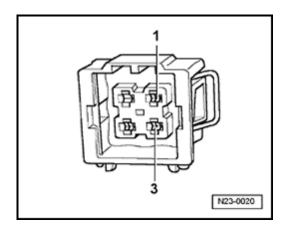
- Ω Ω 1000 900 800 700 6000 5000
- **⋖** Specified values:
 - ♦ At approx. 20°C (68°F): approx. 2500 Ω
 - ♦ At approx. 80 °C (176 °F): approx. 330 Ω

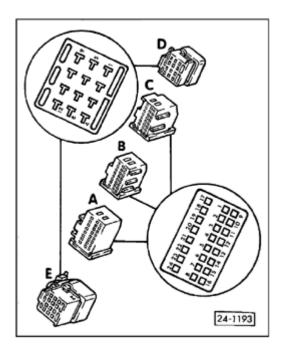
If the specified value is not obtained:

- Replace ECT sensor.

If the specified value is obtained:

- Check wiring between ECT sensor and ECM as follows:
- Connect VAG 1598/19 test box to ECM harness connector \Rightarrow page 01-255.





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- Check wiring for continuity between terminal 3 of ECT sensor harness connector and engine Ground (GND).

Specified value: max. 1 Ω

- Check signal wire for continuity between ECT sensor harness connector terminal 1 and test box socket 16A.

Specified value: max. 1 Ω

- Check both wires for short circuit to each other.

If the specified values are not obtained:

⋖

- Eliminate short or open circuit in wiring between ECT sensor and ECM connector -A- or engine Ground (GND).

ECT sensor terminal number	ECM Connector A or engine Ground (GND)
1	16A
3	Engine Ground (GND)

If wiring is OK and the ECT sensor is OK:

- Replace the ECM ⇒ page 01-265.