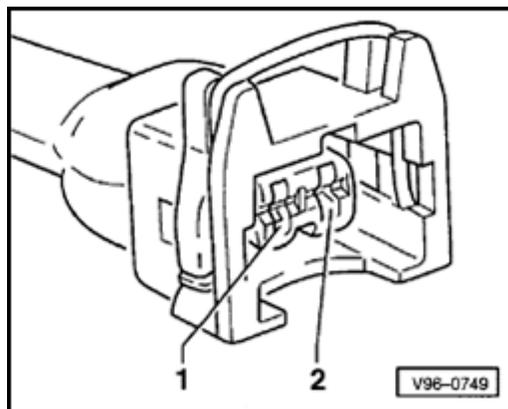24-71

Exhaust Gas Recirculation (EGR) temperature sensor, checking

Notes:

♦ *For a functional check of the EGR temperature sensor ⇒ Repair Group 01, Read measuring value block, display group 017.*

♦ *Component locations ⇒ <u>page 24-1</u> .*
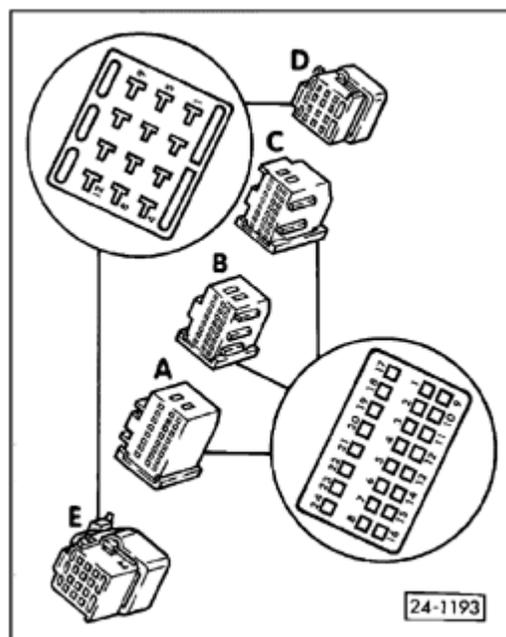
- Disconnect EGR temperature sensor harness connector.

◄

- Switch multimeter (Fluke 83 or equivalent) to 20 volt range and connect between both terminals of connector using jumper wires from connector test kit VW 1594.

- Switch ignition ON.

  Specified value: approx. 5.0 volts

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If the specified value is not obtained:

- Find and eliminate open circuit in wiring between EGR temperature sensor connector terminal 1 and ECM terminal A23, and then between connector terminal 2 and engine Ground (GND), using wiring diagram.

Note:

If it becomes necessary to repair or replace any of the EGR temperature sensor electrical terminals, ONLY replace with gold plated terminals.

If the specified value is obtained:

- Disconnect multimeter and jumper wires from EGR temperature sensor harness connector.
- Switch ignition OFF.
- Remove EGR temperature sensor.
- Switch multimeter (Fluke 83 or equivalent) to 200 kΩ resistance range and connect to EGR temperature sensor terminals using jumper wires from connector test kit VW 1594.
- Immerse temperature sensor in hot water (80° to 100° C) (176° to 212° F) and measure resistance.

  • Resistance must change

If resistance does not change:

- Replace EGR temperature sensor.