

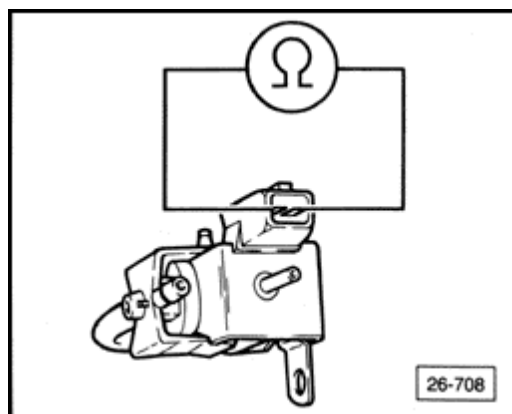
24-67

Exhaust Gas Recirculation (EGR) vacuum regulator solenoid valve, checking

Note:

For a functional check of the EGR system ⇒
Repair Group 01, Read measuring value block,
display group 001.

- Disconnect EGR vacuum regulator solenoid valve harness connector.



- Switch multimeter (Fluke 83 or equivalent) to measure resistance (Ω) and connect between valve terminals.

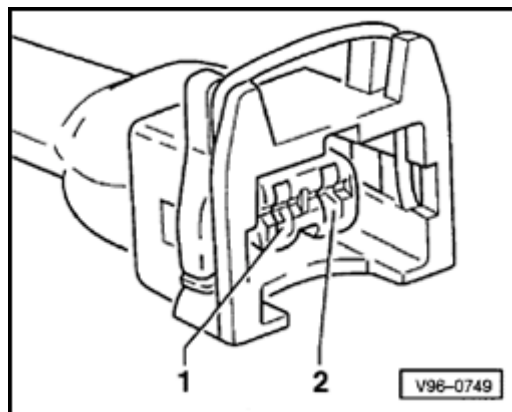
Specified value: 25 to 35 Ω

If the specified value is not obtained:

- Replace EGR vacuum regulator solenoid valve.

Checking voltage supply

- Disconnect EGR vacuum regulator solenoid valve harness connector.

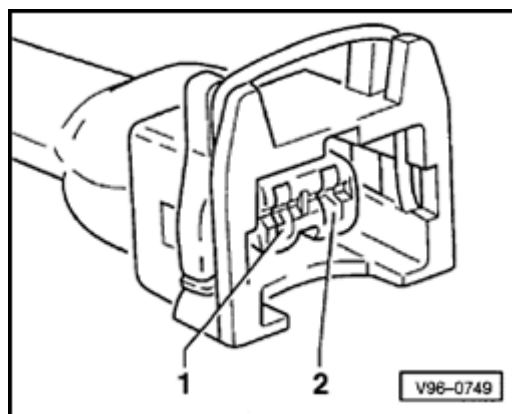


A

- Connect VAG 1527B voltage tester between connector terminal 1 (B+) and engine Ground (GND) using jumper wires from connector test kit VW 1594.
- Use scan tool "Output Diagnostic Test Mode" function 03 to trigger fuel pump relay -J17- ⇒ [page 01-145](#) .
 - Voltage tester must light up

If voltage tester does not light up:

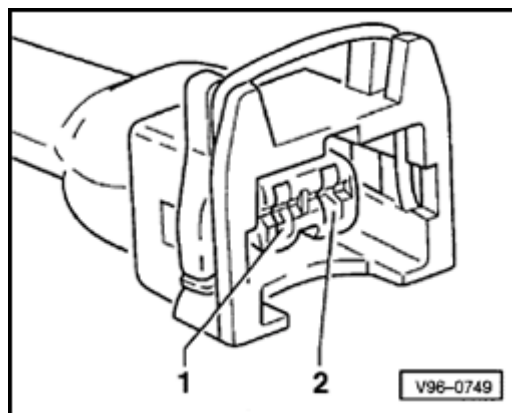
- Check fuse for EGR vacuum regulator solenoid valve.



A

- Check wiring for continuity between EGR vacuum regulator solenoid valve connector terminal 1 and fuse, using wiring diagram.

Specified value: max. 1.0 ohm (Ω)
- Check fuel pump relay and triggering ⇒ [page 24-24](#) .



Checking triggering

A

- Connect VAG 1527B voltage tester between EGR vacuum regulator solenoid valve connector terminals 1 (B+) and 2 using jumper wires from connector test kit VW 1594.
- Use scan tool "Output Diagnostic Test Mode" function 03 to trigger EGR vacuum regulator solenoid valve ⇒ [page 01-145](#) .
- Voltage tester must flash

If voltage tester does not flash, or lights up constantly:

- Connect VAG 1598/19 test box to ECM wiring harness ⇒ [page 01-255](#) .

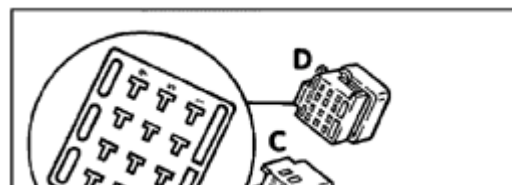
If voltage tester lights up constantly:

- Check wiring for short to Ground (GND) between valve connector terminal 2 and test box socket E1.

If voltage tester does not flash:

- Check wiring for continuity and short to B+ between valve connector terminal 2 and test box socket E1.

Specified value: max. 1.0 ohm (Ω)



A

- If necessary, eliminate short or open circuit in wiring.

If wiring is OK:

- Replace ECM ⇒ [page 01-265](#) .