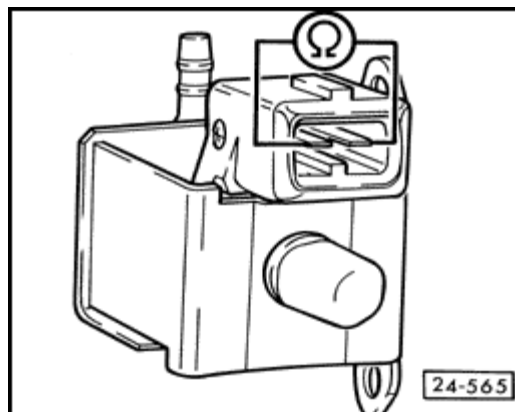


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## Intake manifold change-over valve, checking

Component locations ⇒ [page 24-1](#) .

- Disconnect intake manifold change-over valve harness connector.



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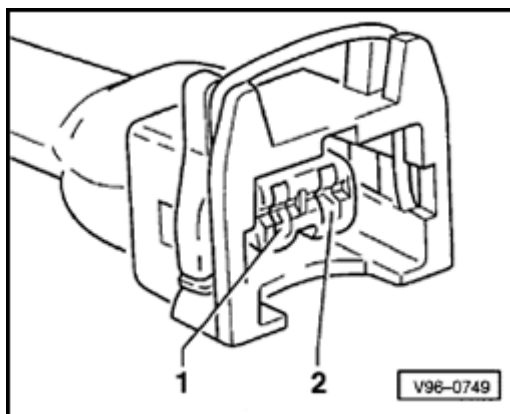
- Switch multimeter (Fluke 83 or equivalent) to measure resistance ( $\Omega$ ) and connect between terminals on valve.

Specified value: 25 to 35 ohms ( $\Omega$ )

If the specified value is not obtained:

- Replace intake manifold change-over valve.

### Checking voltage supply

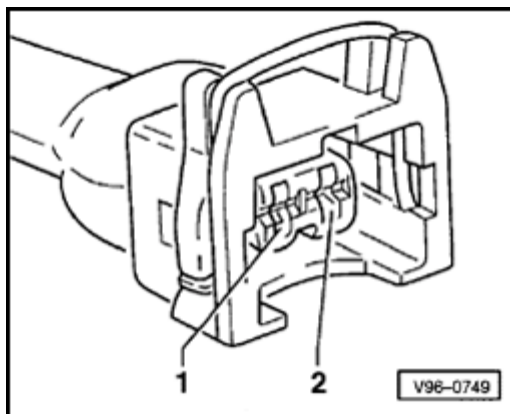


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- Disconnect intake manifold change-over valve harness connector.
- Connect VAG 1527B voltage tester between harness connector terminal 1 and Ground (GND) using jumper wires from connector test kit VW 1594.
- Use scan tool "Output Diagnostic Test Mode"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

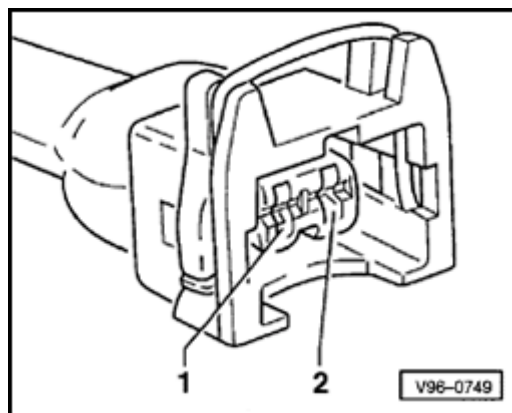
If voltage tester does not light up:

- Check fuse for intake manifold change-over valve.



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- Check wiring for continuity between intake manifold change-over valve harness connector terminal 1 and fuse, using wiring diagram.
- Specified value: max. 1.0  $\Omega$
- Check fuel pump relay and triggering ⇒ [page 24-24](#) .



### Checking triggering

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- Connect VAG 1527B voltage tester between intake manifold change-over valve connector terminal 1 (B+) and 2 using jumper wires from connector test kit VW 1594.
- Use scan tool "Output Diagnostic Test Mode" function 03 to trigger Intake manifold change-over 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 ⇒ [page 01-255](#) .

If voltage tester lights constantly:

- Check wiring from intake manifold change-over valve connector terminal 2 to test box socket B4 to Ground (GND).

If voltage tester does not flash:

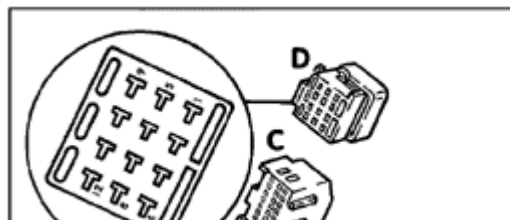
- Check wiring for continuity between terminal 2 of intake manifold change-over valve connector and socket B4 of test box.

Specified value: max. 1.0  $\Omega$

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- If necessary eliminate break in wiring or short to Ground.

If wiring is OK:



- Replace ECM ⇒ [page 01-265](#) .