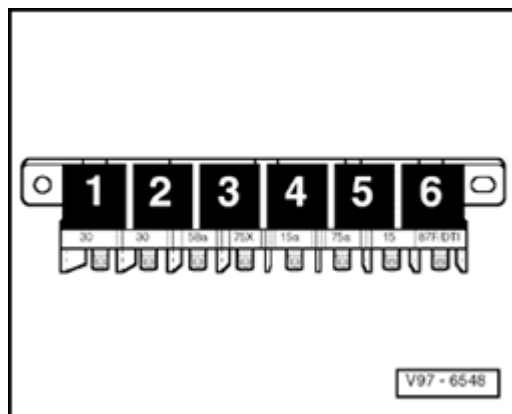


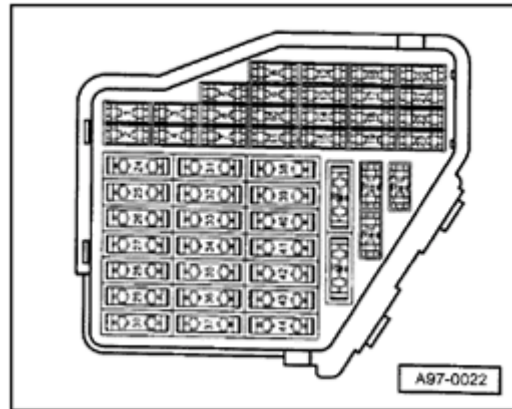
Fuel pump relay and relay triggering, checking



- ⚠ The fuel pump relay is located at position 6 of the central electrical panel under the left side of the instrument panel.

Checking fuel pump relay -J17-

- Remove shelf in left front footwell.



- ⚠
 - Remove fuses 28, 29 and 34 from fuse relay panel.
 - Connect VAG 1527B voltage tester between Ground (GND) and either of the fuse 28 terminals using jumper wires from the connector test kit VW 1594.
 - Briefly operate starter.
 - Fuel pump relay must be felt and heard ("click")
 - Voltage tester must light up

If fuel pump relay does not operate:

- Check triggering ⇒ [page 24-27](#) .

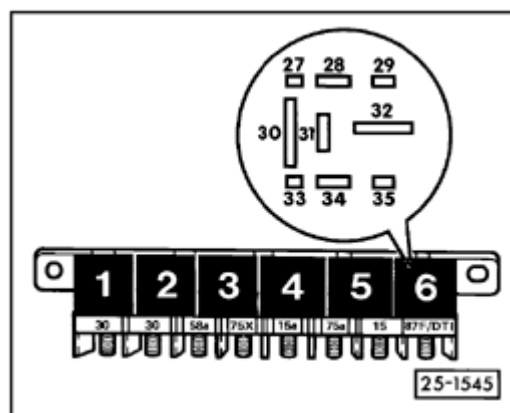
If voltage tester does not light up:

- Repeat test on other terminal for fuse 28.

If voltage tester still does not light up:

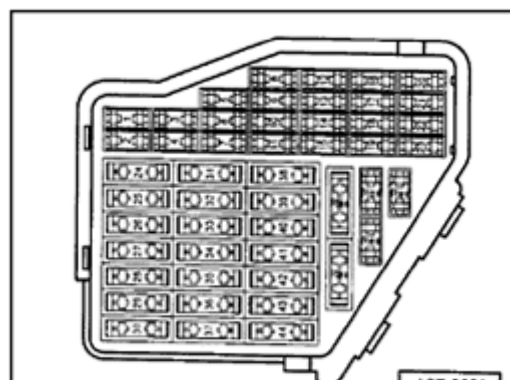
A

- Check fuse 28 wiring to terminal 30 (relay position 6), repair as necessary.



A

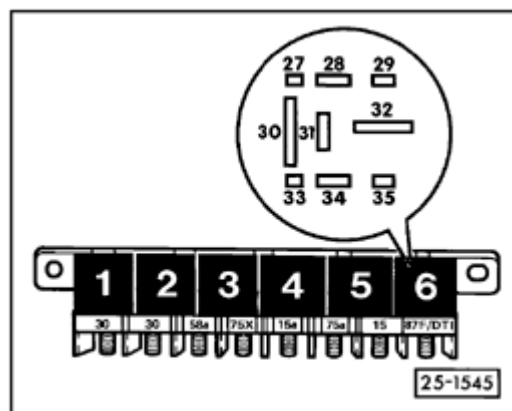
- Connect voltage tester between Ground (GND) and each terminal of fuse 29, in sequence.
- Use scan tool "Output Diagnostic Test Mode" function 03 to trigger fuel pump relay -J17- ⇒ Repair Group 01.
 - Fuel pump relay must be felt and heard ("click")
 - Voltage tester must light up



If voltage tester does not light up:

- Repeat test on the other terminal for fuse 28.

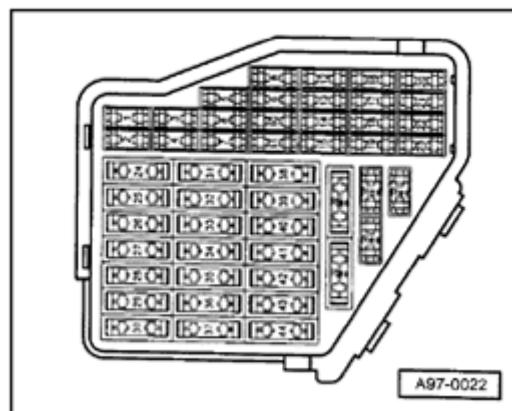
24-26



If voltage tester still does not light up:

A

- Check fuse 29 wiring for continuity to terminal 30 (relay position 6) using wiring diagram, correct as necessary.



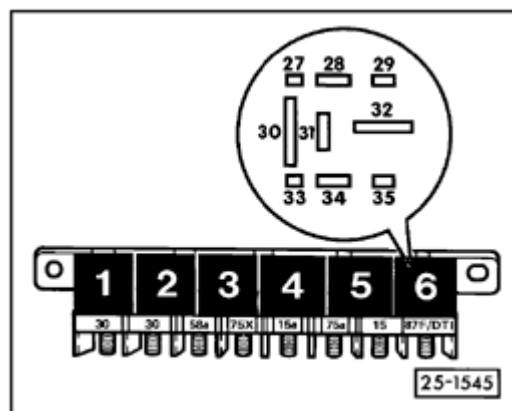
A

- Connect voltage tester between Ground (GND) and either terminal for fuse 34.
- Use scan tool "Output Diagnostic Test Mode" function 03 to trigger fuel pump relay -J17- ⇒ Repair Group 01.
 - Fuel pump relay must be felt and heard ("click")
 - Voltage tester must light up

If the voltage tester does not light up

- Repeat the check using the other fuse 34 terminal.

24-27



If the voltage tester still does not light up:

- Check wiring for continuity between fuse 34 and terminal 31 (relay position 6) using wiring diagram, correct as necessary.

Checking voltage supply

- Remove fuel pump relay -J17- from the fuse relay panel, relay position 6.
- Switch ignition ON.
- Connect multimeter (Fluke 83 or equivalent) between sockets 28 (B+) and 34, then between sockets 32 (B+) and 34.

Specified value: approx. battery positive voltage (B+)

If the specified values are not obtained:

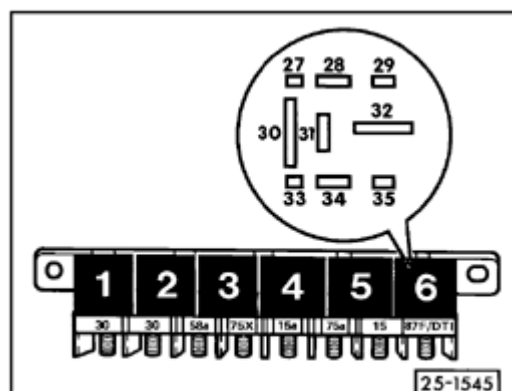
- Check for open circuit using wiring diagram, correct as necessary.

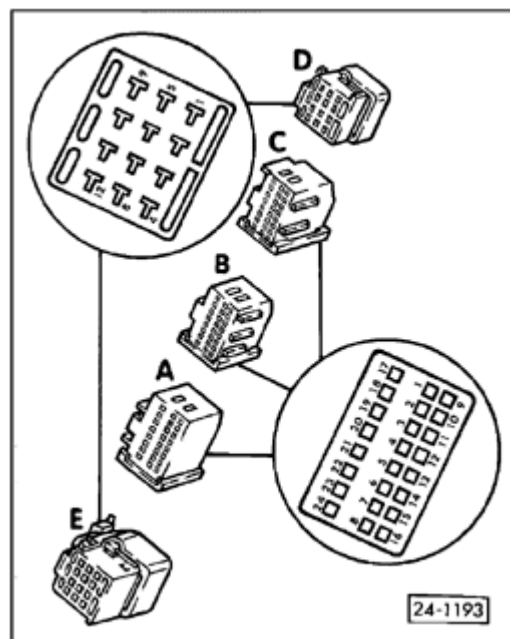
Checking fuel pump relay triggering

- Connect voltage tester between sockets 28 (B+) and 29.
 - Voltage tester must light up for approx. 1 second and then go out. Tester must stay lit while operating starter.

Note:

Only by operating the starter is it possible to make the voltage tester LED go out, otherwise it will appear dimly lit (due to low current draw).





If voltage tester does not light up, check wiring as follows:

A

- Connect VAG 1598/19 test box to ECM harness connector (ECM is left disconnected) ⇒ Repair Group 01.
- Switch multimeter (Fluke 83 or equivalent) to measure resistance (Ω) and check for continuity between relay socket 29 and test box socket A5 using jumper wires from connector test kit VW 1594.

Specified value: max. 1 Ω

If the specified value is not obtained:

- Check for open circuit using wiring diagram, and correct as necessary.

If the wiring is OK and the voltage tester does not light up:

- Replace ECM ⇒ Repair Group 01.

If the fuel pump relay triggering and the wiring is OK:

- Replace the fuel pump relay.
- Re-insert the removed fuses.