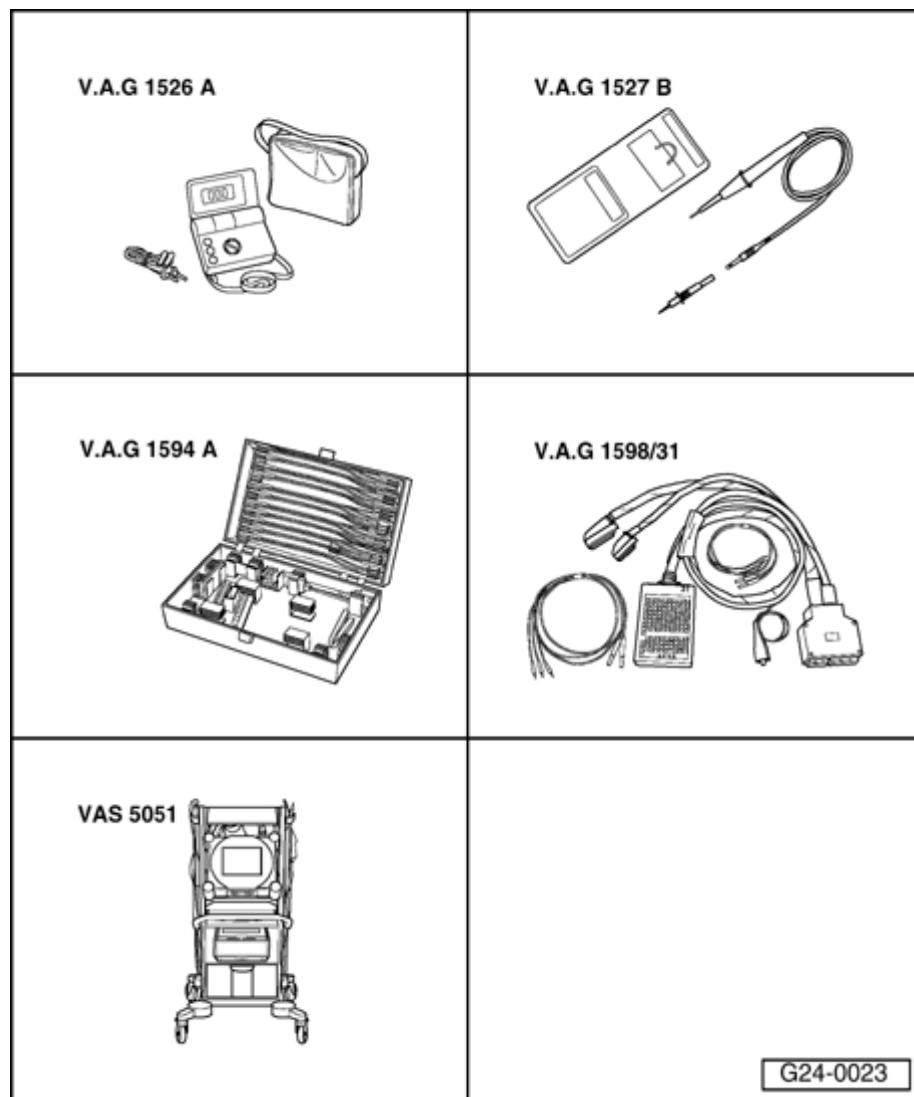


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Tank ventilation, checking

Evaporative Emission (EVAP) canister purge regulator valve -N80-, checking

Special tools and equipment

- ◆ VAG1526A
- ◆ VAG1527B
- ◆ VAG1594A
- ◆ VAG1598/31
- ◆ VAS5051 with VAG5051/1
- or
- ◆ VAG1551 with VAG1551/3A

Checking for proper seal

When there is no current, the Evaporative Emission (EVAP) canister purge regulator valve - N80- is closed.

- Disconnect hoses from EVAP valve; harness connector remains connected.
- Attach assisting hose to one connection of EVAP valve.
- Connect VAS5051 tester or VAG1551 scan tool and select control module for engine electronics using "address word" 01 ⇒ [Page 01-10](#) . Ignition must remain switched on.
- Initiate output DTM and activate Evaporative Emission (EVAP) canister purge regulator valve -N80- ⇒ [Page 01-49](#) .

Output Diagnostic Test Mode (DTM) →
EVAP canister purge regulator valve -N80-



Indicated on display(or, indicated: tank ventilation valve -N80-)

- ◆ Valve must click...
- ◆ ...and must open and close (can be tested by blowing into assisting hose).

If valve does not click:

- Check internal resistance of EVAP valve.

If valve does not open or close properly:

- Replace Evaporative Emission (EVAP) canister purge regulator valve -N80-.

Checking internal resistance

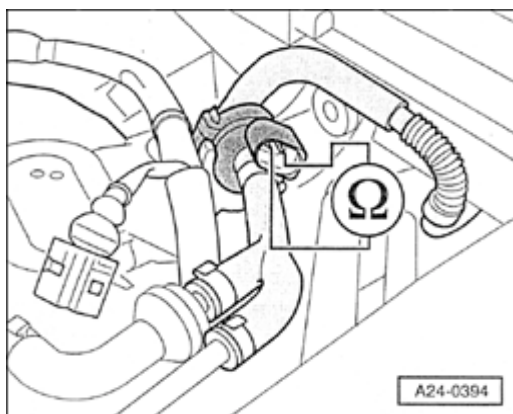
- Disconnect connector at EVAP valve.
- Connect multimeter at valve for resistance measurement.
 - ◆ Specification: 22 to 30 Ω

If specified value is not obtained:

- Replace Evaporative Emission (EVAP) canister purge regulator valve - N80-.

If specified value is obtained:

- Check voltage supply ⇒ [Page 24-110](#) .



Checking voltage supply

Test requirements:

- Fuse for the EVAP valve OK.

⇒ *Electrical Wiring Diagrams, Troubleshooting & Component Locations*

- Fuel Pump (FP) relay OK; checking ⇒ [Page 24-53](#).

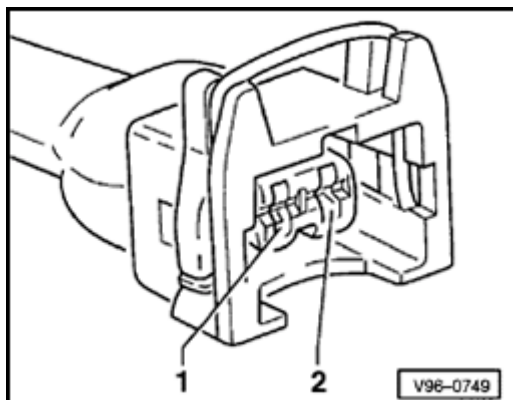
Note:

Voltage is supplied to the EVAP valve via the Fuel Pump (FP) relay.

- Disconnect connector at EVAP valve.
- Connect VAG1527B voltage tester as follows:

| Harness connector | Measure to |
|-------------------|---------------------|
| Terminal | |
| 1 | Engine Ground (GND) |

- Operate starter briefly (engine can also start).
 - ◆ LED must light up.



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If LED does not light up:

- Check wire connection from terminal 1 of connector to Fuel Pump (FP) relay via fuse for open circuit:

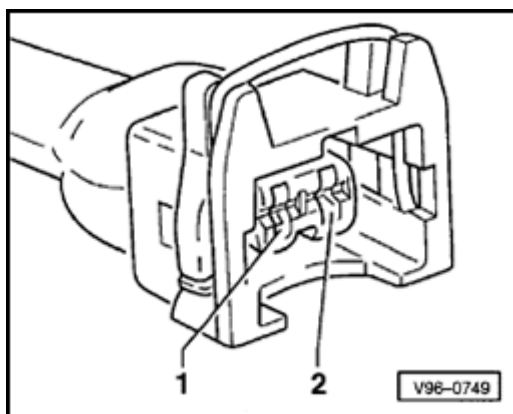
⇒ *Electrical Wiring Diagrams, Troubleshooting & Component Locations*

- Repair open circuit if necessary.

If LED lights up:

- Checking activation.

Checking activation

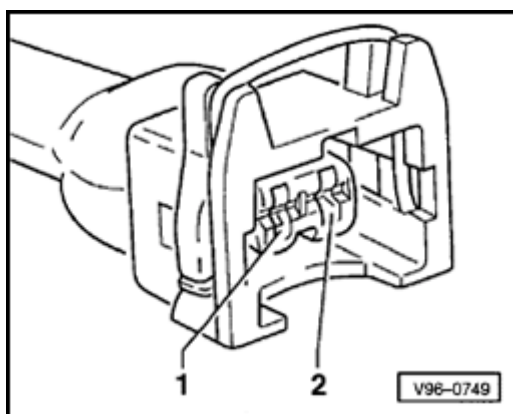


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- Connect VAG1527B voltage tester to connector terminals 1 (B+) and 2.
- Initiate output DTM and activate Evaporative Emission (EVAP) canister purge regulator valve -N80- ⇒ [Page 01-49](#) .
 - ◆ LED must blink.

If LED does not blink or if it remains constantly lit:

- Connect VAG1598/31 test box at wiring harness to Engine Control Module (ECM), do not connect ECM ⇒ [Page 24-19](#) .



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- Check following wire connection for open circuit and short circuit to Ground (GND) and B+:

| Harness connector | VAG1598/31 test box |
|-------------------|---------------------|
| Terminal | Socket |
| 2 | 64 |

- Repair open circuit or short circuit if necessary.

If wire connection is OK:

- Replace Engine Control Module (ECM) ⇒ [Page 24-23](#)