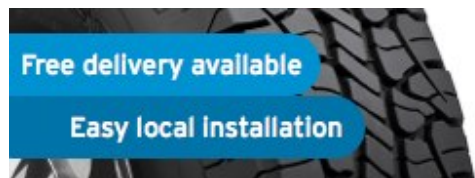


Your Vehicle: 2010 Audi Q7 Quattro (4LB) V6-3.0L DSL Turbo (CATA)



SAVE \$25
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[Vehicle](#) » [Powertrain Management](#) » [Fuel Delivery and Air Induction](#) » [Fuel Pressure Regulator](#) » [Testing and Inspection](#) » [Fuel Pressure Regulator Valve \(N276\), Checking](#) » [Generic Scan Tool](#)

Generic Scan Tool

Fuel Pressure Regulator Valve (N276), Checking

Observe all safety precautions: [Safety Precautions] [See: Computers and Control Systems\Service Precautions\Generic Scan Tool](#)

View clean working conditions: [Clean Working Conditions] [See: Computers and Control Systems\Service Precautions\Generic Scan Tool](#)

Prior to repair work, perform a preliminary check to verify the condition. Refer to [Preliminary Check] [See: Computers and Control Systems\Testing and Inspection\Scan Tool Testing and Procedures\Preliminary Check](#).

Use only gold-plated terminals when servicing any component with gold-plated electrical harness connector terminals.

For wiring diagrams, component locations, and connector views, Refer to the applicable wiring diagram.

Special tools, testers and auxiliary items required

- ✘ Multimeter
- ✘ Wiring diagram

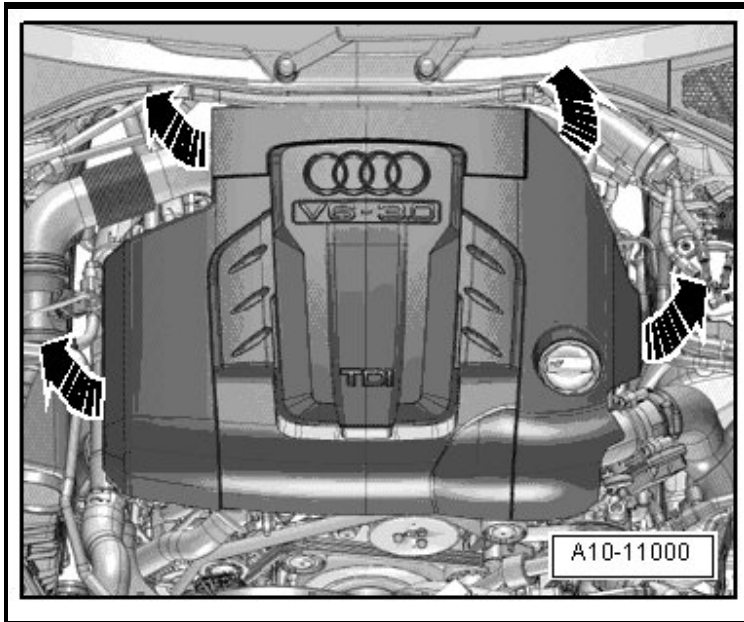
Test requirements

- ✘ The [Engine Speed Sensor](#) (G28) OK.
- ✘ Battery voltage at least 12.5 volts.
- ✘ All electrical consumers such as, lights and rear window defroster, switched off.
- ✘ Vehicles with automatic transmission, shift selector lever into position "P" or "N".
- ✘ A/C switched off.
- ✘ Ground connections between engine/transmission/chassis OK.

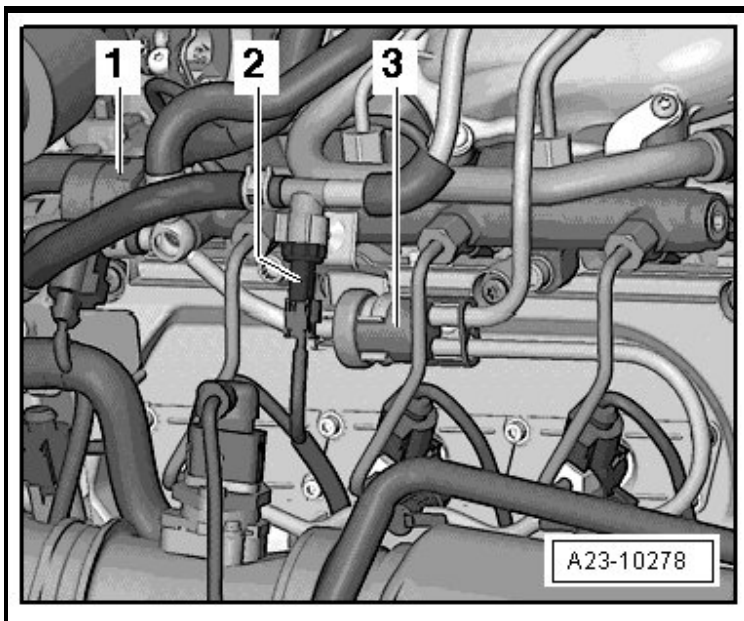
☒ Ignition switched off.

Start diagnosis

- Remove the engine cover.



- Disconnect the Fuel Pressure Regulator Valve (N276) electrical harness connector.- 1 -



Checking internal resistance

- Using a multimeter, check the Fuel Pressure Regulator Valve (N276) terminals 1 to 2 for resistance.

Specified value: 1.5 to 11 ohms (at approx. 20°C)

If the specified value was not obtained:

- Replace the Fuel Pressure Regulator Valve (N276). Refer to the Repair Manual.

If the specified value was obtained:

- Turn the [ignition switch](#) ON.
- Connect a multimeter red lead to terminal 2 of the Fuel Pressure Regulator Valve (N276) and the other meter lead to ground and measure the voltage.
- Turn the [ignition switch](#) OFF.

Specified value: Battery voltage.

If the specified value was not obtained:

- Check the circuit between terminal 2 of the Fuel Pressure Regulator Valve (N276) and fuse S 10 for an open, short or high resistance.
- Repair as necessary.

If the specified value was obtained:

- Turn the [ignition switch](#) ON.
- Connect a multimeter red lead to terminal 1 of the Fuel Pressure Regulator Valve (N276) and the other meter lead to ground.

Specified value: Near 3.48 V.

- Turn the [ignition switch](#) OFF.

If the specified value was not obtained:

Checking wiring

- Remove the [Engine Control Module](#) (J623). Refer to the Repair Manual.
- Using a multimeter, check the Fuel Pressure Regulator Valve (N276) electrical harness connector terminal 1 to the [Engine Control Module](#) (J623) electrical harness connector T105 46 terminal for a short to ground or voltage, high resistance or an open circuit.

| Fuel Pressure Regulator Valve (N276) electrical harness connector terminal | Engine Control Module (J623) electrical harness connector T105 terminals |
|--|--|
| 1 | 46 |

Specified value: 1.5 ohms max.

If the specified value is not obtained:

- Check the wires for a short circuit to each other, a short to battery voltage, and a short to ground.
- Check the electrical harness connector for damage, corrosion, loose or broken terminals.
- Repair as necessary.

If no malfunction is detected in the wiring and the voltage was not correct:

- Replace the [Engine Control Module](#) (J623). Refer to the service manual for removal and installation procedures.

Final procedures

After repair work, the following work steps must be performed in the following sequence:

1. Check the DTC memory. Refer to [Diagnostic Mode 03 - Read DTC Memory] [See: Computers and Control Systems\Testing and Inspection\Scan Tool Testing and Procedures\Diagnostic Modes 01 - 09\Diagnostic Mode 03 - Read DTC Memory.](#)
2. If necessary, erase the DTC memory. Refer to [Diagnostic Mode 04 - Erase DTC Memory] [See: Computers and Control Systems\Testing and Inspection\Scan Tool Testing and Procedures\Diagnostic Modes 01 - 09\Diagnostic Mode 04 - Erase DTC Memory.](#)
3. If the DTC memory was erased, generate readiness code. Refer to [Readiness Code] [See: Computers and Control Systems\Testing and Inspection\Monitors, Trips, Drive Cycles and Readiness Codes.](#)

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