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

Reduction Agent Injector, Checking

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Observe all safety precautions: => [Safety Precautions] See: Service Precautions\Safety Precautions

View clean working conditions: => [Clean Working Conditions] See: Service Precautions\Clean Working Conditions

Prior to repair work, perform a preliminary check to verify the condition. Refer to => [Preliminary Check] See: 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

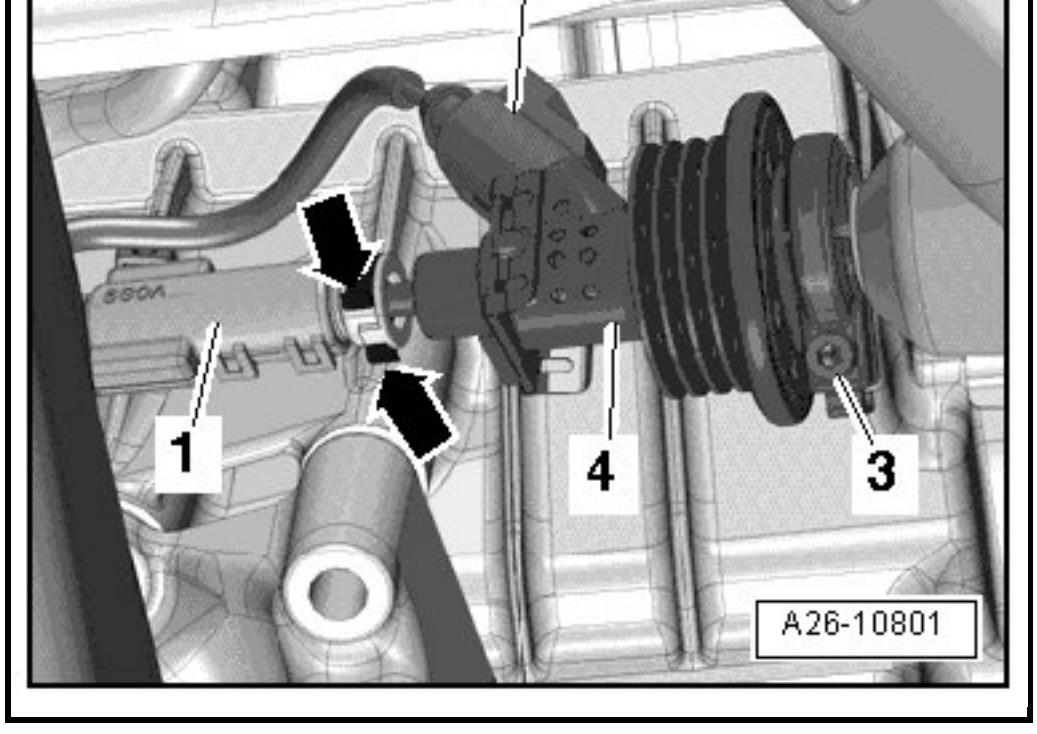
- ¤ multimeter.
- ¤ Wiring diagram.

Test requirements

- ¤ The ignition switched off.

Start diagnosis

- Disconnect the Reducing Agent Injector (N474) electrical harness connector.- **2** -



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¤ The exhaust system MUST be at room temperature or the readings will be incorrect.

Checking resistance

- Measure the resistance of the Reducing Agent Injector (N474) terminals.

Specified value: 12.4 ohms(+/- 1 ohms)

If the specified value was Not obtained replace the Reducing Agent Injector (N474).

If the specified value was obtained:

Checking voltage

- Turn the ignition switch ON.
- Measure the voltage of the Reducing Agent Injector (N474) harness connector terminal 1 to ground.

Specified value: 11.20 V (+/- 1.5 V)

- Measure the voltage of the Reducing Agent Injector (N474) harness connector terminal 2 to ground.

Specified value: 2.58 V (+/- 0.8 V)

If either of the specified values were Not obtained:

Checking wiring

- Remove the Engine Control Module (ECM) (J623). Refer to the Repair Manual.
- Using a multimeter, check the Reducing Agent Injector (N474) electrical harness connector to the Engine Control Module (ECM) (J623) electrical harness T91 connector for resistance.

Reducing Agent Injector (N474) electrical harness connector terminal	Engine Control Module (ECM) (J623) electrical harness connector T91 terminals or test box socket
1	91
2	74

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Specified value: 1.5 ohms Max.

If the specification was not obtained:

- Check the wiring for a short circuit to each other, Battery positive, Ground or high resistance.
- If necessary, repair the faulty wiring connection.
- Check the electrical harness connector for damage, corrosion, loose or broken terminals.

If no malfunction is detected in the wiring and the voltage readings were Not correct:

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

Final procedures

After the 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: Scan Tool Testing and Procedures\Diagnostic Modes 01 - 09.
2. If necessary, erase the DTC memory. Refer to => [Diagnostic Mode 04 - Erase DTC Memory] See: Scan Tool Testing and Procedures\Diagnostic Modes 01 - 09.
3. If the DTC memory was erased, generate readiness code. Refer to => [Readiness Code] See: Monitors, Trips, Drive Cycles and Readiness Codes.