



Important!

Please give copies to all your VW Technicians

Technical Bulletin

Subject: Air Suspension, DTC 01772 008 Stored in DTC Memory Group: 43

Number: 04-02

Model(s): Touareg

2004 ► 2005

Date: Dec. 20, 2004

Condition

Air suspension Diagnostic Trouble Code 01772 008 "implausible signal of pressure sensor" is stored in memory.

In most cases this DTC is related to a leak in the system.

The following outlines proper diagnostic sequence.

Service

Air spring damper supply line, leak test

- ◀ – Using soapy water (or foaming windshield cleaner), leak test all lines at the compressor and valve block.



Tip:

Compressor must be detached from its body mounts, in order to have access to all lines.

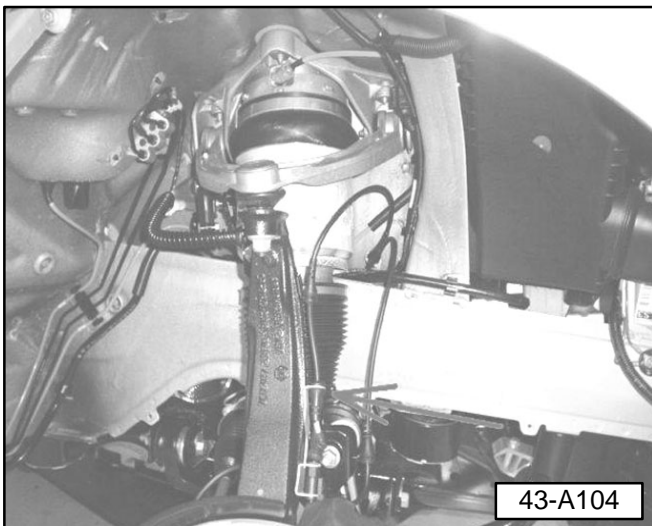
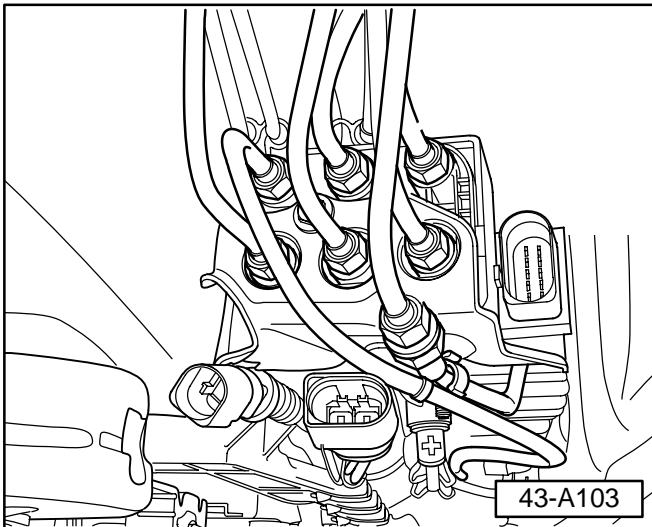
- Wiggle lines during test to simulate a driving situation.



Tip:

Some leaks might only be detectable in this condition.

- ◀ – Follow lines to individual air spring damper (where accessible without major disassembly), to check for any leaks or kinks in lines.
- Repair any lines kinked or leaking.





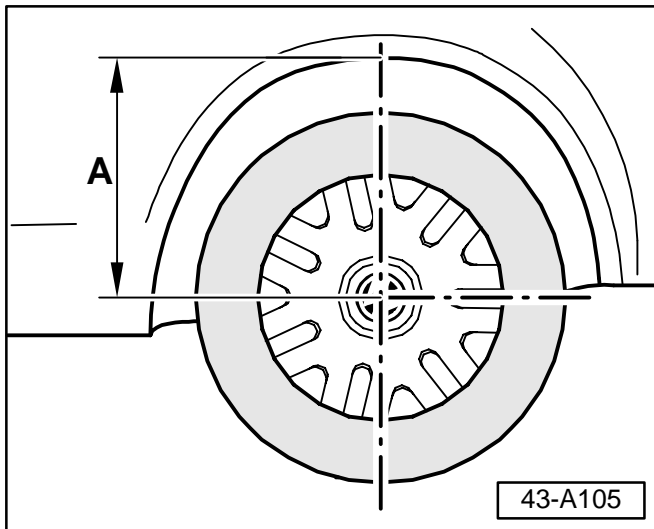
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Air spring dampers, 12 hour leak down test

- Put car in regular auto driving level.
- Start and idle engine for 10 minutes with doors and liftgate closed.
- Stop engine and switch OFF all electrical consumers.
- Disconnect air suspension control module electrical connector (right rear quarter).



- ← Record height dimension at every wheel opening.
- Let vehicle sit with doors and liftgate closed for the next 12 hours.
- Measure wheel openings again to see if suspension has lowered.

Tip:

This measurement must be taken at similar a temperature ($\pm 5^{\circ}F$).

- ◆ A 2-3 mm drop in suspension height overnight is normal.
- ◆ A 5 mm or greater drop in suspension height indicates a leak at that particular corner of vehicle.
- Check lines from the air spring damper to the valve block for leaks.
- Wiggle lines, as they often need a dynamic situation to show problems.

Tip:

There are no check valves in each individual air spring damper and the line is pressurized from valve block to each air spring damper.

- ◆ If more than one corner of vehicle drops in excess of 5mm, leak is most likely in the valve block.
- Replace valve block.



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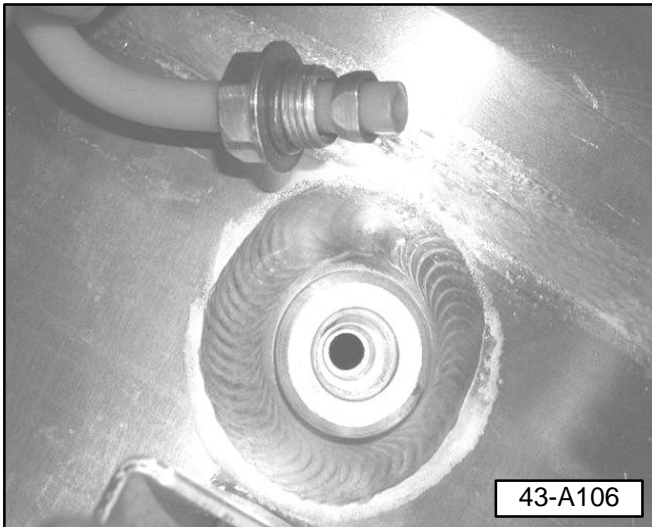
- Repair any lines kinked or leaking.

Accumulator and line, leak test

- Lines to air spring dampers were previously verified.
- Follow blue lines from compressor to accumulators to check for leaks.

These lines are not easy to access:

- Rear seat and carpet have to be removed or peeled back to get to blue lines in some places.



Tip:

◀ One difficult leak to find is a poor line seating condition at rear accumulator.

- Wiggle lines to determine if it leaks only in a dynamic situation.
- Repair any lines kinked or leaking.

Compressor insufficiency

If above DTC returns after actions above have been completed:

- Compressor should be replaced.