



Air Springs “Problem – Cause – Solution”

→ Problem and Cause

→ Solution

Deformed Air Springs

- 1 improper storage
- 2 improper transport/
improper handling



- 1 storage according to ISO 2230:2002
no daylight, dry, at normal room
temperature
- 2 avoid improper transport/
improper handling

Damage of the conical beads and cuts

- 1 improperly mounted bead plate
- 2 pinching of the bellows with
metal parts



- 1 keep conical beads clean and
corrosion free
- 2 avoid driving without pressure
in the air suspension

Bellows rubs off at shoulder

- 1 bead plate diameter incorrect
- 2 bellows too long for application



- 1 make sure to use original parts
- 2 avoid wrong cross references

Broken off thread bolts

- 1 excessive torque
- 2 use of oils or lubricants



- 1 don't exceed recommended torque
according to your maintenance manual
- 2 avoid usage of oils or lubricants

Overextension

- 1 spring travel not restricted
- 2 incorrectly adjusted level control
- 3 air spring not suitable for application



- 1 check the shock absorbers
- 2 check and adjust level control valve
- 3 double check if the air spring fits
the OE part number

Abrasion

- 1 Bellows contact with chassis parts
- 2 Bellows contact with foreign bodies



- 1 double check if the air spring fits
the OE part number
- 2 check regularly and remove foreign
objects stuck between bellows
and piston

Chemical contamination

- 1 usage of oils or lubricants



- 1 avoid usage of lubricants or cleaners
which contain mineral oils
- 2 check air springs on a regular basis

Air Spring bursting, broken piston

- 1 overload
(exceeding the maximum
allowable pressure)



- 1 never exceed the maximal allowed
weight of the vehicle