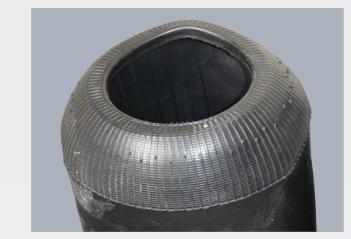


Air Springs "Problem - Cause - Solution"

Deformed Air Springs

- 1 improper storage
- improper transport/ improper handling





- **→** Solution
- 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

→ Problem and Cause

- 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

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





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

Broken off thread bolts

- 1 excessive torque
- 2 use of oils or lubricants





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

Overextension

- 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
- 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

overload(exceeding the maximum allowable pressure)





1 never exceed the maximal allowed weight of the vehicle