

Important information

⚠ DANGER

Risk of accident from uncontrolled movement of vehicle

If the vehicle is not secured to prevent it from rolling away, it could begin to move. Persons could suffer severe or fatal injury.

Therefore:

- Measures must be adopted to prevent the vehicle from rolling away.

Adjusting vehicle levelling/air suspension system

The vehicles are equipped with either levelling valves or electrical displacement sensors.

All the shock absorbers take the form of travel-dependent bypass dampers.

The vehicle levelling/air suspension system is only to be adjusted on the axles with levelling valves or electrical displacement sensors. The trailing axle will align itself with the vehicle levelling/air suspension system of the drive axle (air spring pressure is the same on each side of the vehicle).

1 Shock absorber protective tube

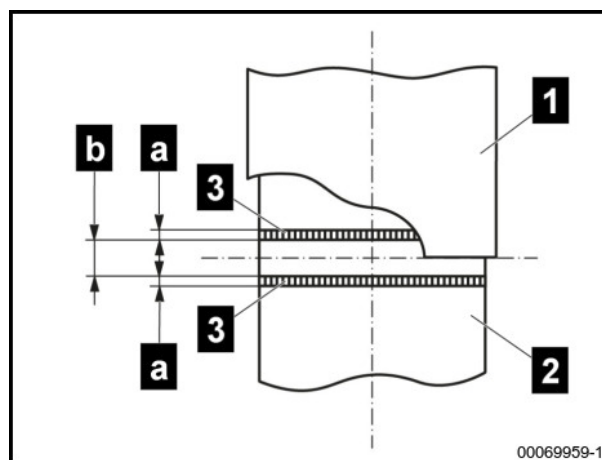
2 Shock absorber reservoir tube

3 Knurl markings

a 3 mm – width of knurl markings

b 10 mm – spacing between knurl markings

- On the shock absorber reservoir tube **2**, there are two circumferential knurl markings **3** with a width of **a** = 3 mm.
- The spacing between the knurl markings **3** is **b** = 10 mm.
- The knurl markings **3** serve as points of reference when adjusting the vehicle levelling/air suspension system.



Park the vehicle

- ▶ Park the vehicle on a level horizontal surface.
- ▶ Take precautions to prevent the vehicle from rolling away.
- ▶ Get the vehicle ready for operation.

The air suspension must be adjusted on a vehicle that is empty and ready for operation in accordance with DIN 70020 Part 2, Section 4.6.

Adjusting the vehicle levelling/air suspension system on vehicles with air levelling valves

NOTE

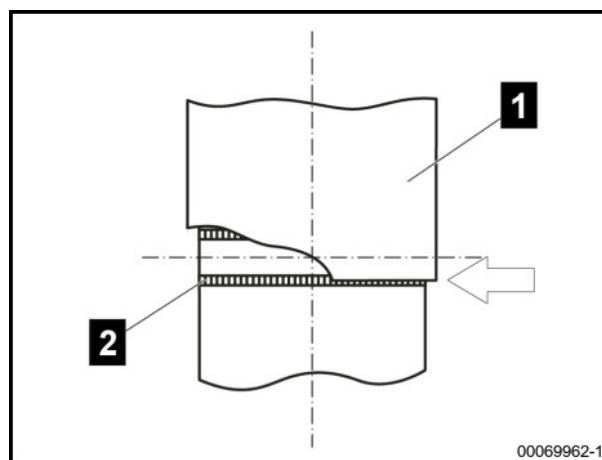
Risk of material damage due to incorrect adjustment

Incorrect shock absorber levels may impair driving comfort.

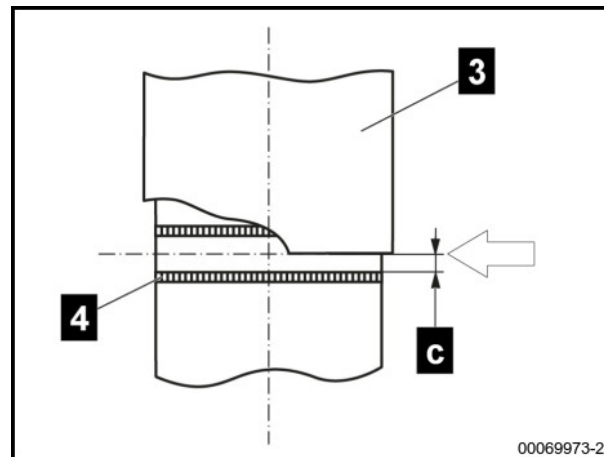
Therefore:

- If the setting dimension is exceeded during adjustment, the adjustment process must be repeated.

- ▶ Always start by inflating the air springs of the axles that only have one control element.



- ▶ Connect MAN-cats® and access the menu-guided application for adjusting the vehicle levelling system of the air suspension system. Make the necessary adjustments.
- ▶ Inflate the air springs axle by axle and raise the vehicle body until the setting dimension is achieved; to do this, align the edge of the shock absorber protective tube **1** with the bottom knurl marking **2** (see arrow).
- ▶ The gap between the edge of the shock absorber protective tube **3** and the top edge of the bottom knurl marking **4** must be **c** = 5 mm.



Adjusting the vehicle levelling/air suspension system on vehicles with electrical displacement sensors

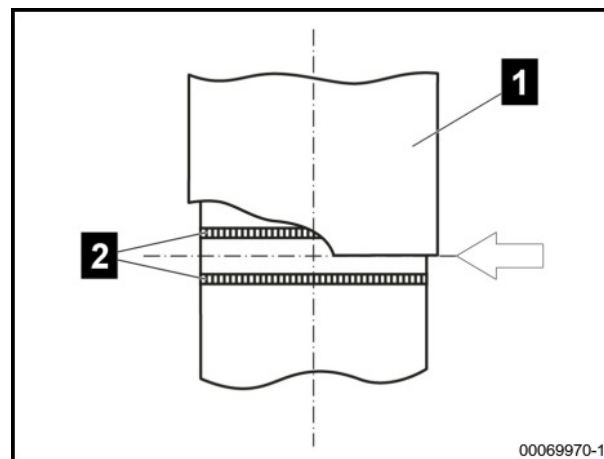
NOTE

Risk of material damage due to incorrect adjustment

Incorrect shock absorber levels may impair driving comfort.

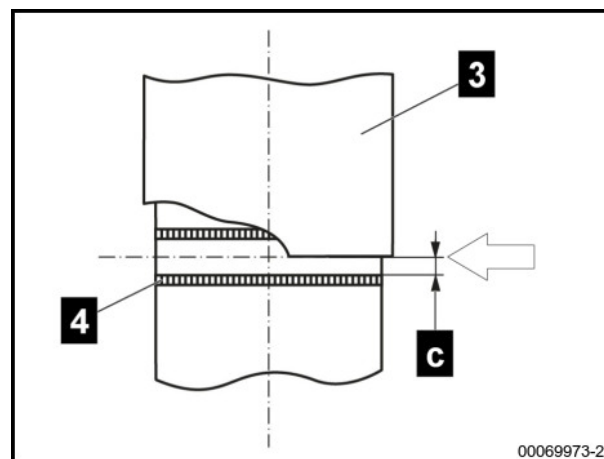
Therefore:

- If the setting dimension is exceeded during adjustment, the adjustment process must be repeated.



- ▶ Always start by inflating the air springs of the axles that only have one control element.
- ▶ Connect MAN-cats® and access the menu-guided application for adjusting the vehicle levelling system of the air suspension system. Make the necessary adjustments.
- ▶ Inflate the air springs axle by axle and raise the vehicle body until the setting dimension is achieved; to do this, align the edge of the shock absorber protective tube **1** with the central point between the knurl markings **2** (see arrow).

- ▶ The gap between the edge of the shock absorber protective tube **3** and the top edge of the bottom knurl marking **4** must be **c** = 5 mm.



Checking vehicle levelling/air suspension system

Applies to vehicles with levelling valves and to vehicles with electrical displacement sensors.

- ▶ Check that the edge of the shock absorber protective tube **1** is between the knurl markings **2** (see arrows).

