

Determine the maximum possible suspension lift / remaining suspension travel

The maximum height of a suspension lift is limited by the remaining suspension travel. For a TÜV registration according to Section 21 or Section 19(2) of the Road Traffic Licensing Act (StVZO), a remaining suspension travel of at least 4cm is required following a suspension lift. Adhering to the remaining suspension travel guarantees a suspension lift without any problems. As a result, brake hoses, drive shafts, axles and the chassis remain within the tolerance range tested by the TÜV (TÜV Fact Sheet 751, Annex II).

IN ORDRE FOR THE MEASUREMENT RESULT TO NOT BE FALSIFIED, PLEASE ALWAYS MEASURE THE DISTANCE IN THE COMPRESSED STATE FIRST! VEHICLE MAY NOT BE LIFTED BEFOREHAND (E.G., HOIST)

How to determine the maximum possible suspension lift:

1. Mark the centre of the wheel with the adhesive tape and measure vertically up to the edge of the mud guard.
2. With the vehicle at rest, measure the vertical distance between the marked centre of the wheel and the edge of the mud guard (Figure A) above it and note down the value (ATTENTION: always measure the vehicle at rest first, then in a rebounded state, otherwise the measurement result will be falsified).
3. Lift the body using a jack or hoist.
4. Now the vehicle is rebounded and the wheels have no contact with the ground (Figure B). Now measure the distance again between the centre of the wheel and the lower edge of the mud guard.

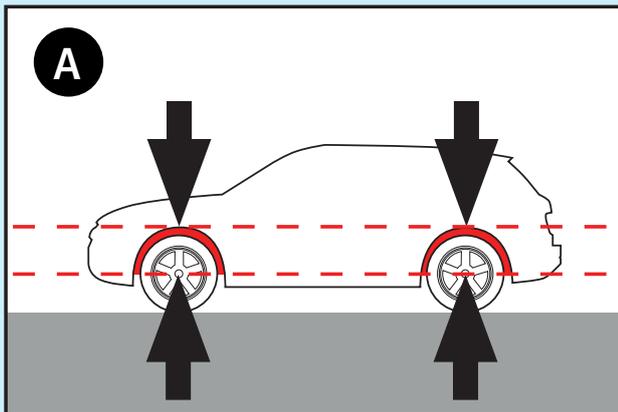


Figure A, vehicle at rest (compressed)
Measuring points: centre of mud guard and centre of wheel
IMPORTANT! Do not lift the vehicle before carrying out this measurement as otherwise the measurement result will be falsified!

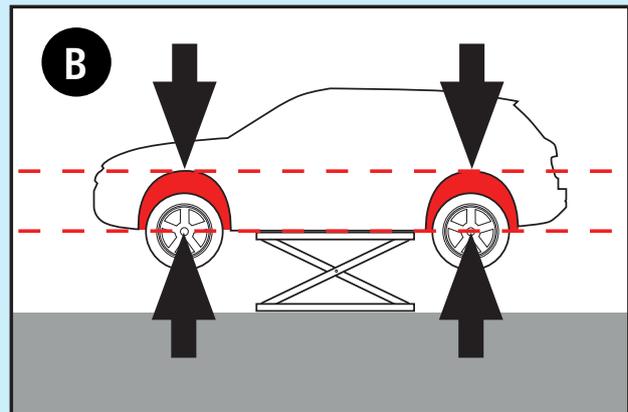


Figure B, vehicle rebounded
Measuring points: centre of mud guard and centre of wheel

In the example opposite, the vehicle can have the suspension lifted by up to 6.0 cm./ 2.36 in

Example

Distance when rebounded (Figure B)	– 49,0 cm (19,29 in)
Distance when compressed (Figure A)	– 39,0 cm (15,35 in)
Suspension travel	10,0 cm (3,9 in)
Required minimum suspension travel	– 4,0 cm (1,57 in)
Max. possible suspension lift	= 6,0 cm (2,36 in)

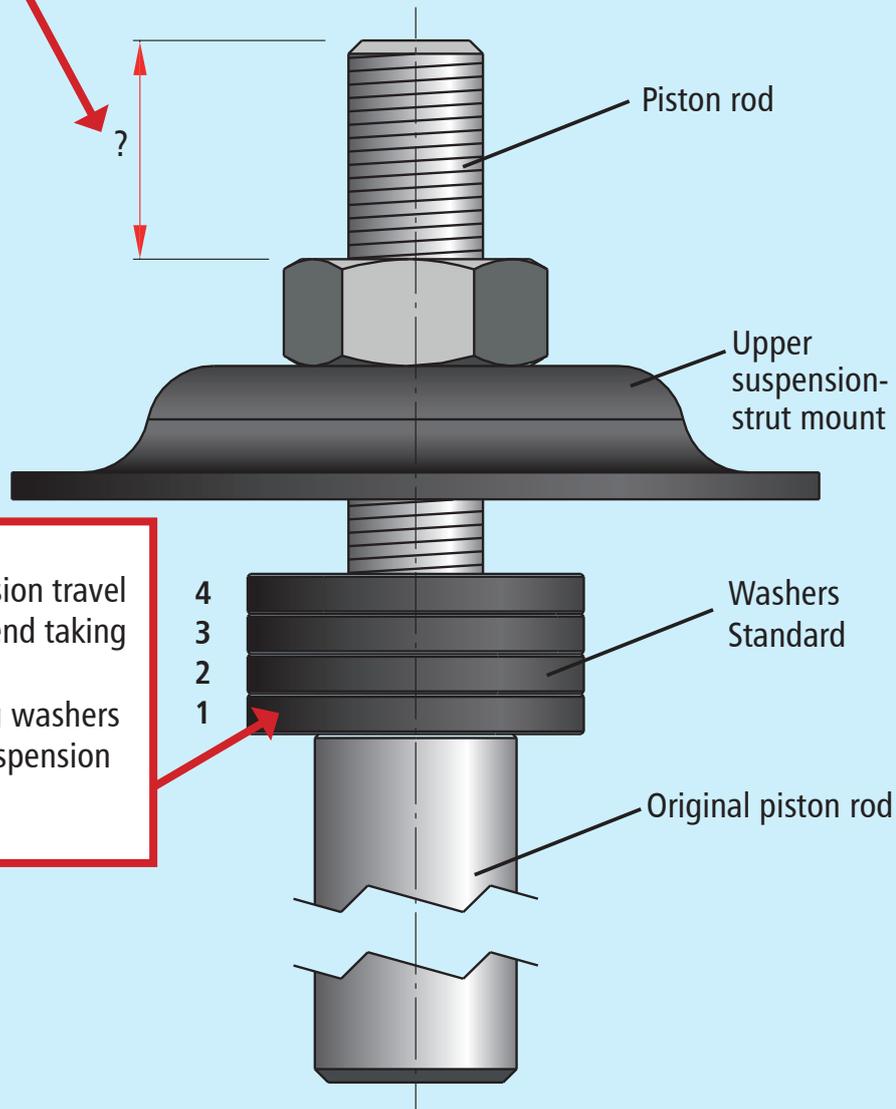
	1	2	3	4
SPACCR® (1.2cm)	1,2cm	2,4 cm	3,6cm	4,8 cm
SPACCR® (1.2cm) with optional rubber profile (0.3cm)	1,5cm	3,0 cm	4,5 cm	6,0 cm

	1	2	3	4
SPACCR® (0,47in)	0,47 in	0,9 in	1,4 in	1,8 in
SPACCR® (0,47in) with optional rubber profile (0,11in)	0,59 in	1,18 in	1,7 in	2,36 in

AFTER THE SUSPENSION LIFT, THERE MUST STILL BE AT LEAST 4 CM OF REMAINING SUSPENSION TRAVEL!

Optimising the suspension travel

Before unscrewing the shock absorber, measure how much thread is free towards the top. Alternatively, you can then install washers around this free amount. This increases the remaining suspension travel (more comfort while driving)



If there is a remaining suspension travel of less than **4cm**, we recommend taking advantage of the remaining thread by installing washers to optimise the remaining suspension travel. (see reverse)

The remaining suspension travel can be increased by suspension top cap washers. Fit these between the piston rod and the upper suspension-strut mount. This increases the remaining suspension travel for more comfort while driving. If this suspension travel is not sufficient, we offer an optional piston rod extension, which can be ordered at www.spaccer.com