



SHOCK ABSORBERS

SUSPENSION | 19201

Function

Vibration absorbers (shock absorbers) allow the vibrations of the bodywork and wheels to subside more quickly. This results in an increased safety and driving comfort. Vibration absorbers convert the kinetic energy into thermal energy.

Nowadays, almost exclusively hydraulic vibration absorbers are being used. In the process,

a piston moves within a cylinder, allowing oil to be displaced through small holes or valves, the so-called throttle points.



SYMPTOMS

- Insufficient wheel traction on corners and bumps
- Vehicle vibrates during braking
- Vehicle swerves during acceleration
- Bumpy and imprecise steering
- Over- or under-steering.



REASONS FOR FAILURE

- Leakages / loss of oil
- Internal damage, e.g. to compression stops (often in vehicles with trailer coupling, if these are loaded to the maximum)
- Defective dust sleeves, which expose the piston rods to the weather and damage the sealing lip on the damper



CONSEQUENTIAL DAMAGES

- Deterioration of braking
- Electronic assistance systems impaired (ABS, ESP, ASR)
- Sawtooth formation on tyres
- Tyre washout
- Damage to absorber / strut bearings
- Increased wear on axle guidance joints



RECOMMENDED BY THE EXPERTS

- Always replace all shock absorbers from one axis at the same time.
- Always change the impact buffer / dust cover at the same time
- Check shock absorbers after the first 60,000 km, then every 20,000 km
- Exceptions:**
- From 40,000 km for vehicles which frequently travel on inadequate routes
- Along with any maintenance of vehicles with trailers

SHOCK ABSORBERS FROM VAICO

You can find over 200 products at www.autoteile.de



- **Long lifetime:** high-quality NOK oil seal
- **Load test:** same absorber effect even in extreme situations
- **Supporting product range:** Bellow kits sets also available from VAICO