

Damage assessment - wheel suspension and steering | HELLA

Damage assessment

Wheel suspension and steering

Influence of defective components on braking behaviour

Damaged or malfunctioning suspension or steering components can affect not only the driving but also the braking behaviour of the vehicle. If unusual noises, vibrations or unstable driving behaviour are detected during the braking process, this may be due to a variety of chassis components.

Effect of defective components

Defective shock absorbers and tyres

- Deteriorated traction/road grip
- Diminishing braking effect
- Extended braking distance

Defective or incorrectly installed rubber bearings

- Unstable driving behaviour
- Steering wheel or pedal vibrations
- Knocking noises

Lack of damping caused by damaged or leaking hydromounts

- Knocking noises
- Brake rubbing
- Vibrations
- Unstable driving behaviour

Defective coupling rods, wishbone or stabiliser bearings

- Knocking noises
- Unstable driving behaviour
- Vibrations

Defective or incorrectly installed rubber sleeves on the drive shafts

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A detailed technical diagram of a vehicle chassis, specifically the rear suspension system. The diagram shows two wheels connected by a central differential and axle assembly. Blue arrows point to various inspection points: the top of the shock absorbers, the central differential housing, the lower control arms, and the rear axle assembly. Above the chassis, there are two warning icons: a triangle with a crack and a triangle with an exclamation mark.