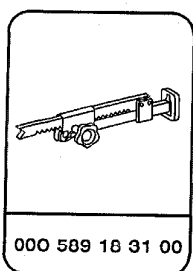


40-200 General checks and preliminary jobs for wheel alignment

Vehicle	empty out vehicle, and bring into drive-off condition: <ul style="list-style-type: none"> - operational vehicle filled with oil and coolant. - Fuel tank full, compensate absent fuel by adding weights in trunk (1 liter of fuel corresponds to approx. 0.75 kg). - Spare wheel and on-board tools.
On test rig	pull vehicle energetically down several times.
Data sheet	fill in, evaluate.
Tire inflation pressure	check, and correct if required.
Tires	check wear pattern, tread depth and for damage.
Rims	check for damage.
Chassis components	check condition.
Front axle	<ul style="list-style-type: none"> - check axial play of wheel bearing, and adjust if necessary (33-300). - Check guide joint in upper control arm.
Play in steering assembly	check (46-480).
Pedal winch	attach 000 589 18 31 00 to brake pedal.

Special tool



40-200 General checks and preliminary jobs for wheel alignment

Equipment (self-made)

Weights for loading vehicle	2 × 5 kg
	3 × 10 kg
	2 × 20 kg

Preparations prior to measuring

- 1 Vehicle empty. Remove luggage, fuel canisters or the like which may be in vehicle.
- 2 Ready vehicle for ready-to-drive condition.

Ready-to-drive condition

- Operational vehicle filled with oil and coolant
- + full fuel tank
 - + spare wheel
 - + vehicle tools.

The fuel tank should be full on principle. Compensate absent fuel by placing additional weights in trunk. (1 liter of fuel = 0.75 kg).

- 3 After repair work on the axles or suspension, drive and decelerate vehicle several times or pull vehicle energetically down several times on the measuring rig.
- 4 Record data for chassis alignment check, evaluate data.

- 5 Check tire inflation pressure and correct if necessary.
- 6 Check wear pattern and tread depth of tires, while paying attention to mechanical damage, if any.
- 7 Check rims for damage
- 8 Check axle carrier, control arm, steering knuckle and steering linkage on front axle, axle carrier and semi-trailing arm on rear axle, as well as frame side members for damage, if any.
- 9 Check bearing play of front axle:

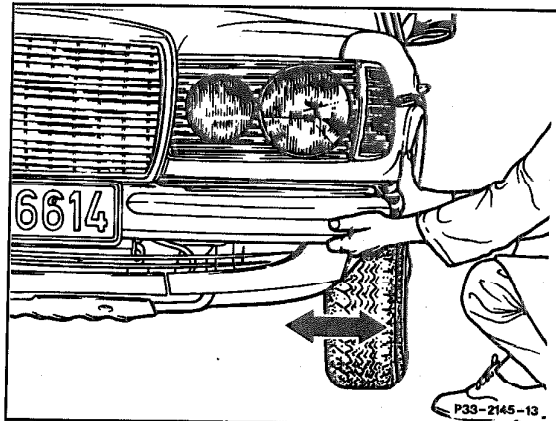
With vehicle raised, check for bearing play by pulling and pushing wheel in lateral direction to vehicle and readjust with dial gauge, if required (33-300).

40-200 General checks and preliminary jobs for wheel alignment

- 10 Check play of steering system components (46-0110).

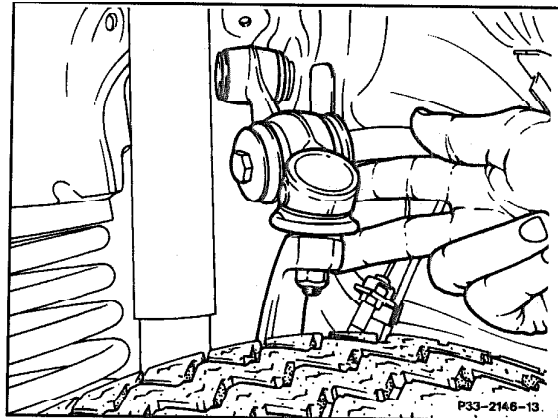
Guide joint in upper control arm

With the vehicle **not** raised, energetically shake vehicle laterally at bumper in transverse direction. Simultaneously, on the opposite side, let a second person feel upper control arm in proximity of guide joint and steering knuckle.



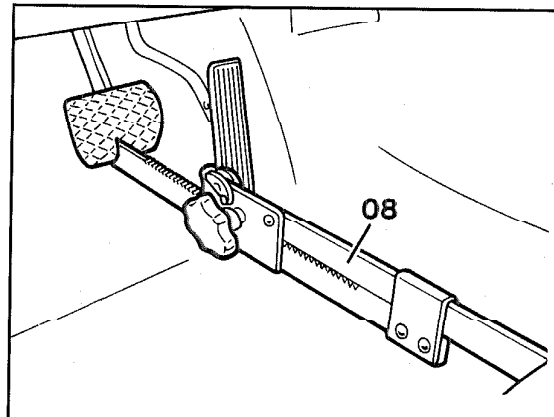
P33-2145-13

Shown on model 123



P33-2146-13

- 11 Actuate service brake with pedal winch (08) 000 589 18 31 00. This will prevent the front wheels from rolling on the turntables.



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