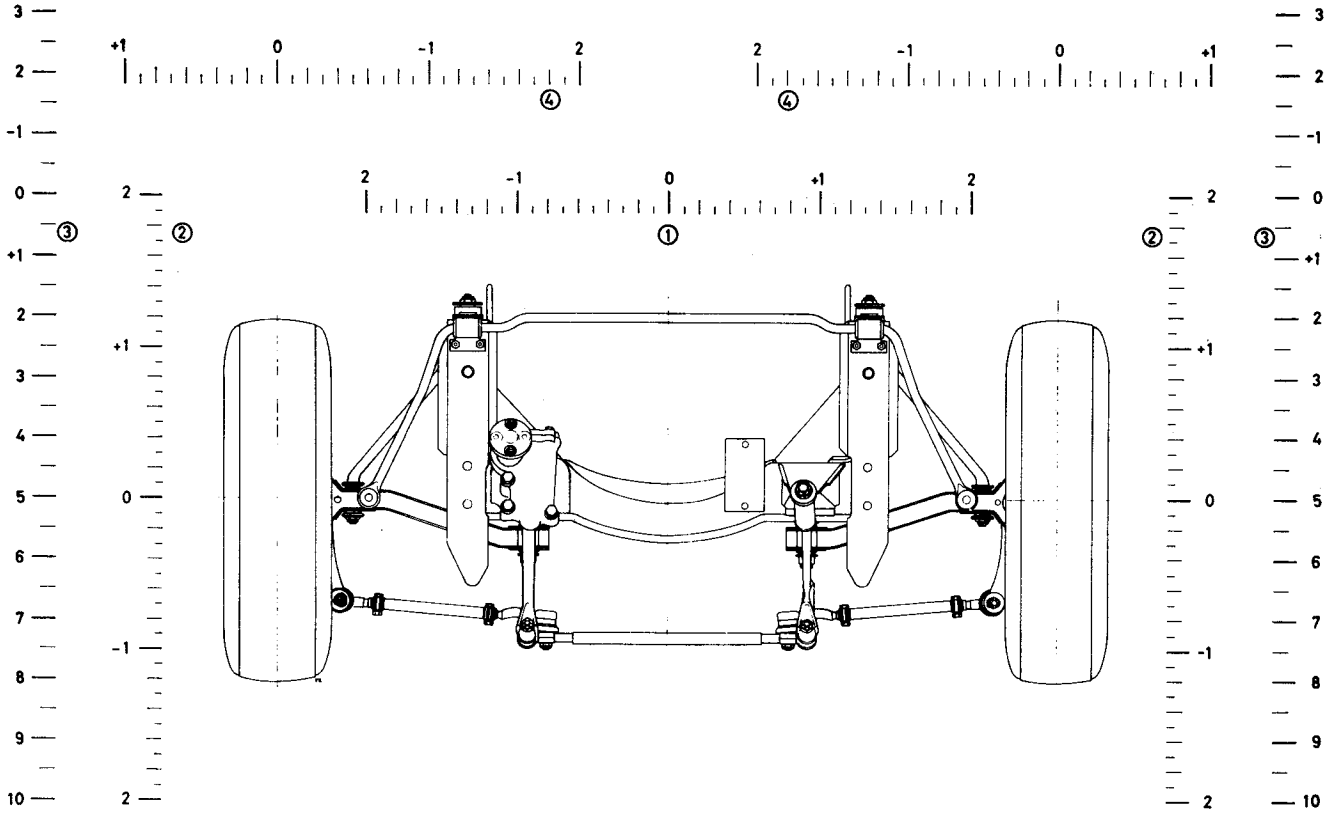
32 00 024 Optically measuring front axle

The following requirements must be fulfilled before the wheel measurement:

1. Good uniform tyre profile.
2. Specified tyre pressure.
3. Rims in perfect order.
4. Specified wheel bearing play.
5. Set vehicle in normal load position[1].

determine actual values with optical measuring instrument.
Prepare measurement sheet.
Theoretical values[1].



Fault finding:

(1) Track not correct

a) Tie-rod
b) Tie-rod lever bent,
c) Tie-rod ball joint worn.

(2) Variation in camber angle

a) Transverse swinging arm,
b) Telescopic leg,
c) Front axle carrier,
d) Wheel arch deformed,
e) Guide joint worn,
f) Wheel bearing play,
g) Spring sag too great,
h) Distortion in floor assembly.

(3) Variation in castor

a) Traction strut,
b) Transverse swinging arm,
c) Telescopic leg,
d) Wheel arch deformed,
e) Distortion in floor assembly.

(4) Toe-out not correct
assuming that camber and castor are correct

a) Tie-rods adjusted unevenly,
b) Tie-rod lever bent,
c) Drop arm fitted incorrectly.

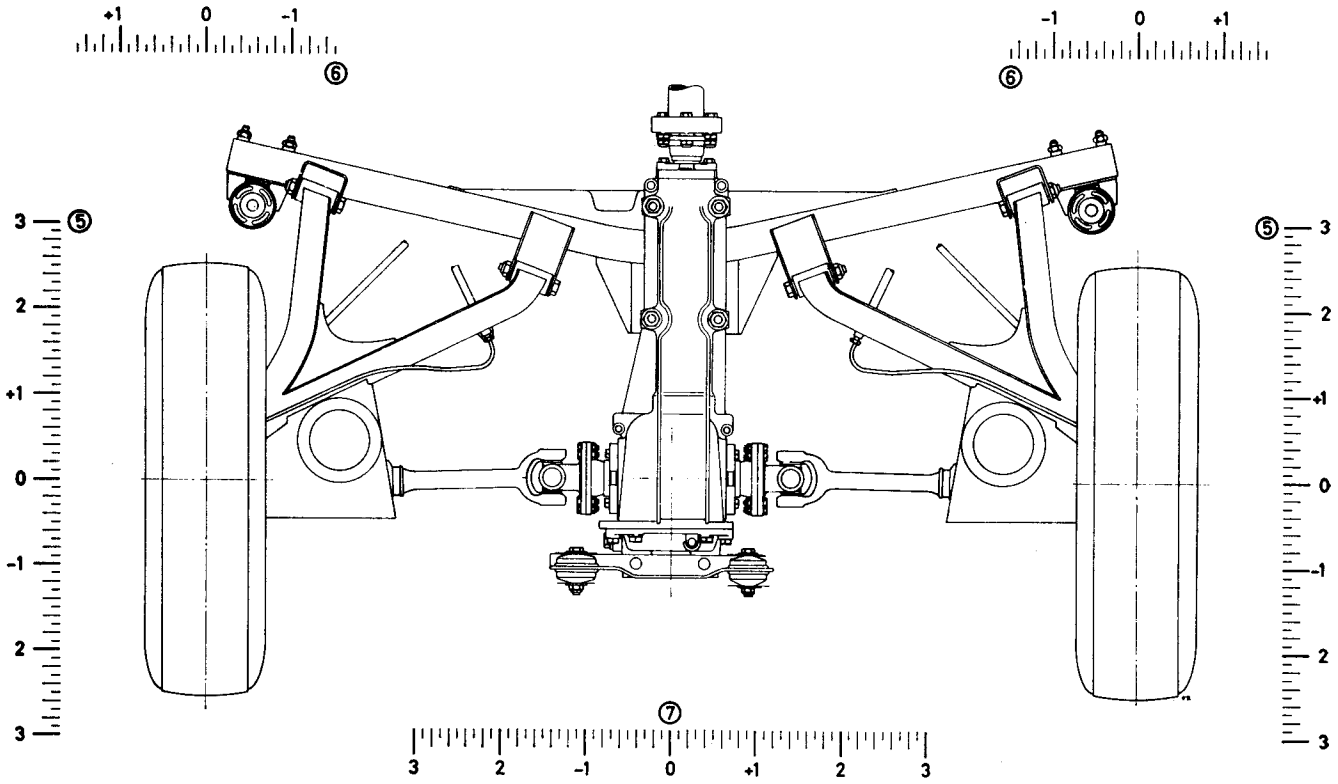
[1] See Technical data.

32 00 054 Optically measuring rear axle

The following requirements must be fulfilled before the wheel measurement.

1. Good uniform tyre profile.
2. Specified tyre pressure.
3. Rims in perfect order.
4. Specified wheel bearing play.
5. Set vehicle in normal load position[1].

Determine actual values with optical measuring instrument.
Prepare measurement sheet.
Theoretical values[1].



Fault finding:

(5) Variation in camber angle

a) Rubber bearings on rear axle carrier,
b) Rubber bearings on final drive,
c) Silentblocs in trailing arm defective,
d) Rear axle carrier,
e) Trailing arm deformed,
f) Distortion in floor assembly.

(6) Rear wheel position is incorrect

a) Rear axle carrier laterally displaced,
b) Distortion in floor assembly.

(7) Track not correct

a) Rear axle carrier,
b) Trailing arm deformed,
c) Silentblocs in trailing arm,
d) Rubber bearings on rear axle carrier defective,
e) Spring sag too great.

[1] See Technical data.