

## Measuring Front Wheels

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1. Secure wheel mirror to front wheels.
2. Position tubular frame so that microscopes are set as close to the centre of the wheel axis as possible.
3. Jack up car until the wheel to be aligned turns freely.
4. Set measuring distance, turn wheel, change position of mirror by means of the three screws, until cross wire does no longer move.
5. Turn mirror round its axis and observe cross wire (max. deviation: Toe-in 5', camber 10').
6. Align second front wheel, proceeding similarly.
7. Lower car, at the same time placing rotating plates underneath both wheels.
8. Rock car and move it to and fro several times.
9. Set measuring distance, attach scale trestles with stop angle to measuring scale and adjust scanners at distance to rim flange.
10. Place scale trestles in position to the rear wheels (attach scanner to the rim flange concerned).
11. Put elbow sight forward and move frame on one side in parallel direction to the longitudinal axis of the vehicle until the same figure appears in the same field of the scale (of the scale trestle) when reading both microscopes.
12. Check measuring distance and correct distance and position of tubular frame, if required.
13. Remove elbow sight, attach tension spring to the wheels (load approx. 20 kg).
14. Set left front wheel to zero, read camber and enter this figure in measuring chart.
15. Read toe-in of right wheel, set wheel to zero, read camber and enter result.
16. Turn wheel towards left until left wheel is exactly on  $20^{\circ}$  (correct measuring distance). Read camber of left wheel and enter result (observe clinometer).
17. Read difference angle through right microscope and enter result (correct measuring distance).
18. Set right cross wire to zero (toe-in), read camber and enter result (observe clinometer).
19. Turn wheels towards right until the right wheel is exactly on  $20^{\circ}$ , read camber of right wheel, read difference angle left, set to zero (toe-in), read camber and enter result (observe measuring distance and clinometer).

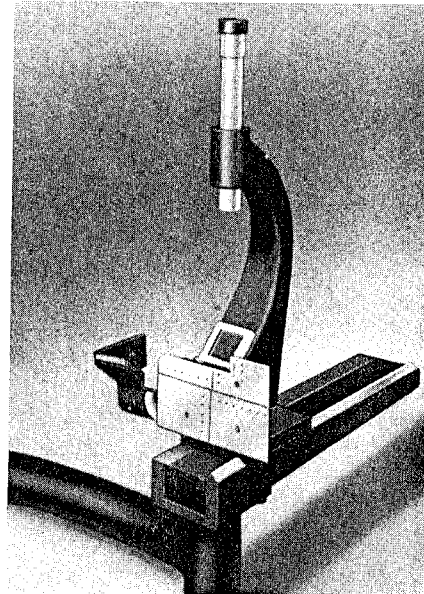


Fig. 9