

Räder und Bereifung

Wheels and tyres

Roues et pneumatiques

Ruote e pneumatici

Ruedas y neumáticos

Hjul och däck

Wielen en banden

36 Wheels and Tires

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Specifications

Wheels and tires

Model	320/6 320/6 A	323 i 323 i A*)
36 10 . . . Wheels		
Vertical runout of tire and steel disc wheel	max. mm (in)	2 (0.08)
Lateral runout of tire and steel disc wheel	max. mm (in)	2 (0.08)
Dynamic imbalance per wheel (Note: max. balance weight limit 90 g (3.18 oz) per side. If imbalance is greater, reposition tire on wheel. Correct imbalance up to 70 g (2.47 oz) with 1 weight, above 70 g with 2 weights.	max. gcm	180
36 11 . . . Steel-disc wheels ¹⁾ (well-base rims)		
Standard equipment Ref.	For non-standard specifications, see leaflet of conversion equipment and Service Information bulletins	
Approved manufacturers	5 1/2 J × 13 H2 – B Kronprinz Lemmerz Südrad	

*) Version for Sweden

1) Always use wheels from one manufacturer only on the car

Specifications

Wheels and tires

Model	320/6 320/6 A	323 i 323 i A *)
For non-standard specifications, see leaflet of conversion equipment and Service Information bulletins		
36 11 . . . Steel-disc wheels ¹⁾ (well-base rims)		
Dished depth	mm (in)	18 (0.71)
Hole pitch circle	mm (in)	100 (3.94)
Rim vertical runout	max. mm (in)	1 (0.04)
Rim lateral runout	max. mm (in)	1 (0.04)
Imbalance (static)	max. gcm	300
36 12 . . . Standard tires ²⁾	For non-standard equipment, see conversion equipment leaflet and Service Information bulletins	
Tire reference	185/70 HR 13	
Tubeless radial-ply tires for steel disc wheels with 43 GS/11.5 DIN 7780 rubber valve	5 1/2 J × 13 H2 – B	

*) Version for Sweden

1) Always use wheels from one manufacturer only on the car

2) All tires on car to be from same manufacturer. Unidirectional tires to be installed as specified by their manufacturer (note "inside" and "outside" markings on tire walls).

Specifications

Wheels and tires

Model		320/6 320/6 A	323 i 323 i A *)
36 12 . . . Tire pressures (for standard tires)			
Load up to 4 persons			
front	(gauge pressure) bar (lb/in ²)		
rear	(gauge pressure) bar (lb/in ²)	2 (28.5)	
Heavier loads			
front	(gauge pressure) bar (lb/in ²)	2 (28.5)	
rear	(gauge pressure) bar (lb/in ²)	2.1 (30)	
		2.3 (33)	
Tightening torques			
36 13 . . . Wheel attachment			
Wheel nuts/bolts		Nm kpm lb.ft	81 . . . 90 8.1 . . . 9.0 59 . . . 65

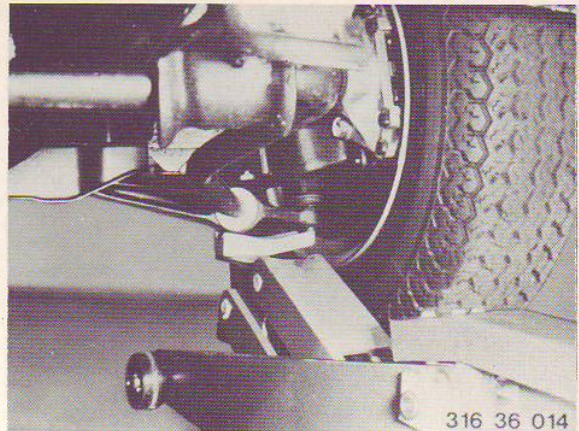
*) Version for Sweden

36 10 008 Electronic balancing of front wheel on vehicle

Check front wheel for lateral and vertical run-out – 36 10 209.

Wheel bearings must be correctly adjusted. Remove stones, old balance weights and major dirt deposits from wheel.

Position measuring stand for general balancing on wishbone, as close as possible to wheel. Raise vehicle with measuring stand.



316 36 014

Attach adhesive tape at one point on wheel, at height of stroboscope lamp.



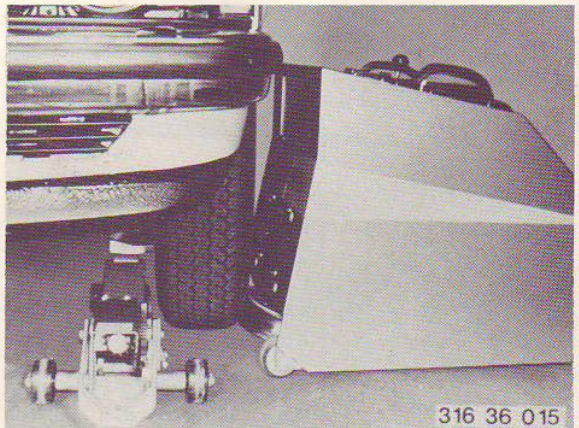
320 36 012

Balance wheel according to operating instructions supplied with balancing unit.

a) Steel rims: imbalance up to 70 g – use 1 weight; above 70 g – use 2 weights.

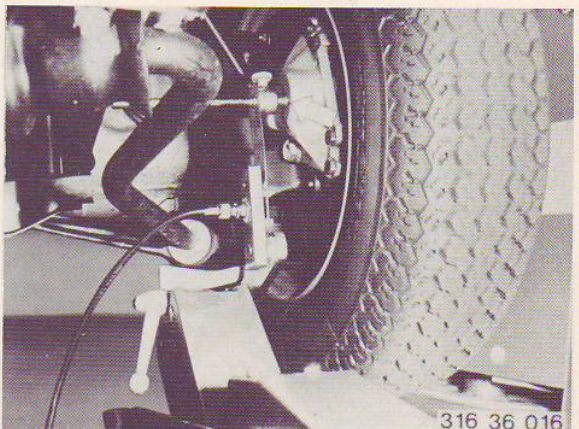
b) Light alloy wheels: imbalance up to 60 g – use 1 weight only.

Note maximum imbalance per wheel and side¹⁾.



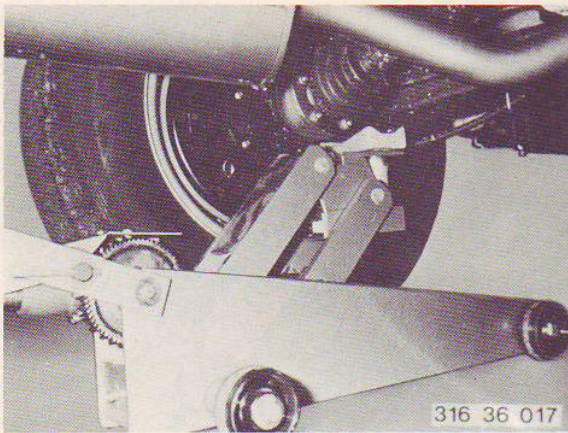
316 36 015

If some unbalance remains (steering wheel still shakes), position measuring instrument on stand against brake caliper for final dynamic balancing. Balance wheel dynamically according to operating instructions of the balancing unit used.



316 36 016

¹⁾ See specifications

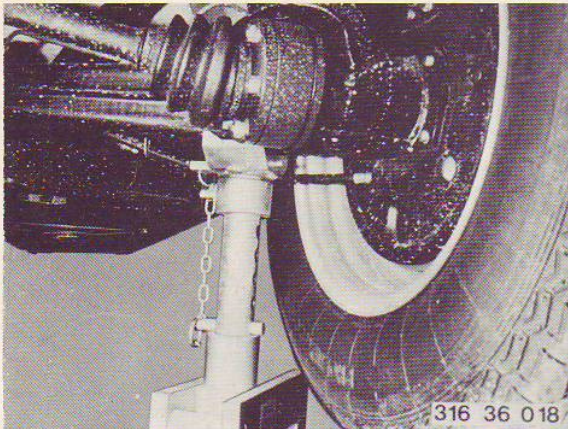


36 10 058 Rear wheel – electronic balancing on vehicle

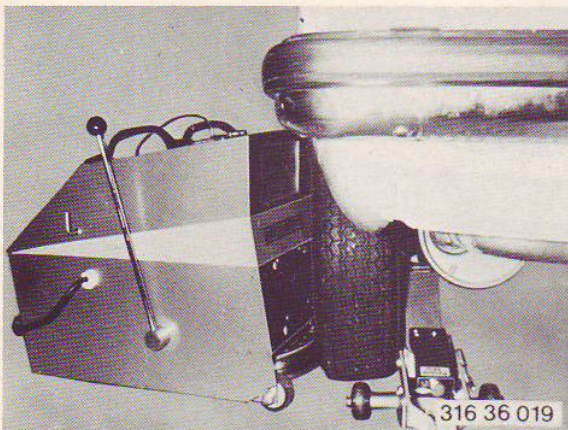
Check rear wheel for lateral and vertical runout – 36 10 209.

Remove old balance weights, stones from tire tread and heavy dirt deposits. Attach measuring stand for general balancing to semi-trailing arm as close as possible to wheel.

The half-shaft must rotate freely.



Raise the vehicle with the measuring stand. Raise the vehicle on the opposite side and support on stand. Attach a strip of adhesive tape to one point on the wheel to be balanced so that it is struck by the beam from the stroboscopic lamp.



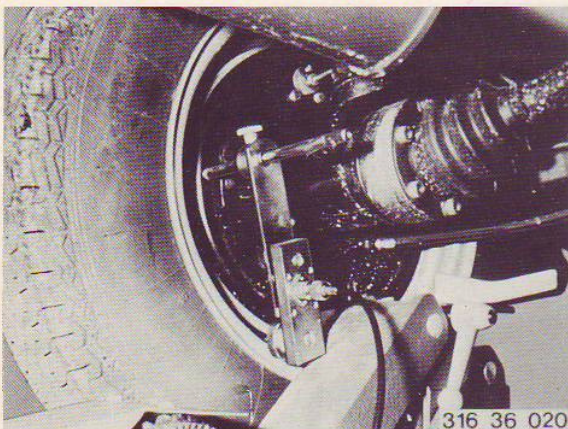
Accelerate the rear wheel to the equivalent of 110 km/h (68 mile/h) road speed with the engine (not with the wheel balancer).

Balance the wheel in accordance with the instructions for the balancer in use.

a) Steel rims: use one weight for imbalance up to 70 g (2.5 oz), and two weights for imbalance exceeding 70 g.

b) Light-alloy rims: use only one weight for imbalance up to 60 g (2.12 oz).

Do not exceed maximum balance weight per wheel and per side¹⁾.



For dynamic residual balancing, disconnect the half-shaft from the rear wheel at its flange. Attach the sensor to the brake caliper or brake carrier plate at axle centerline. The sensor must be approximately horizontal and at a right angle.

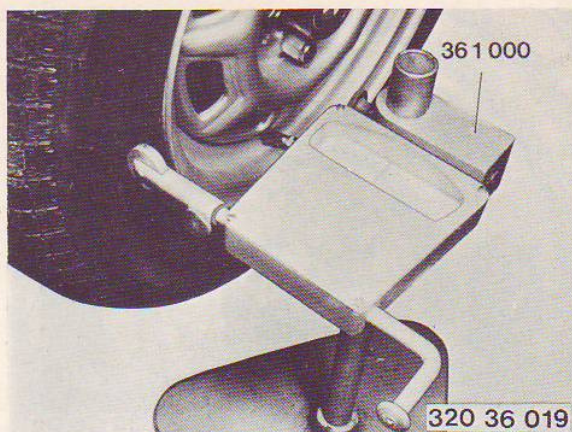
Drive the rear wheel with the wheel balancer, and determine imbalance.

Important: follow the instructions issued with the wheel balancer in use.

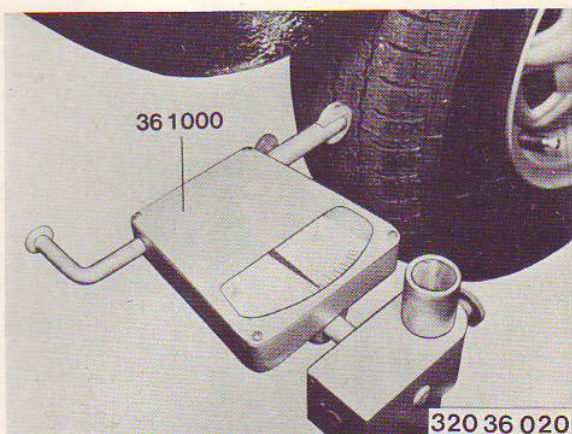
¹⁾ See specifications

36 10 209 Checking wheel for lateral and vertical runout

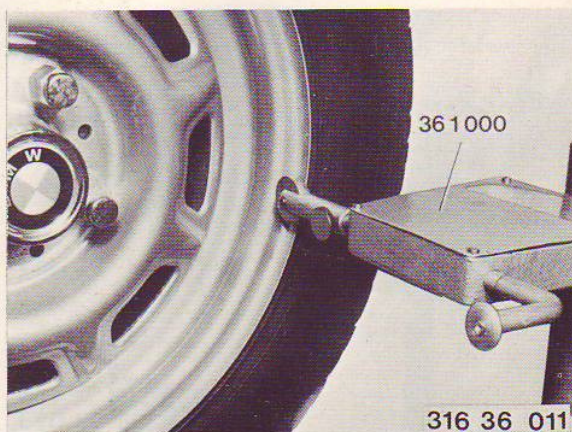
Wheel bearings must be correctly adjusted.
Raise the vehicle.
Check wheel for lateral runout¹⁾ with measuring device 36 1 000.



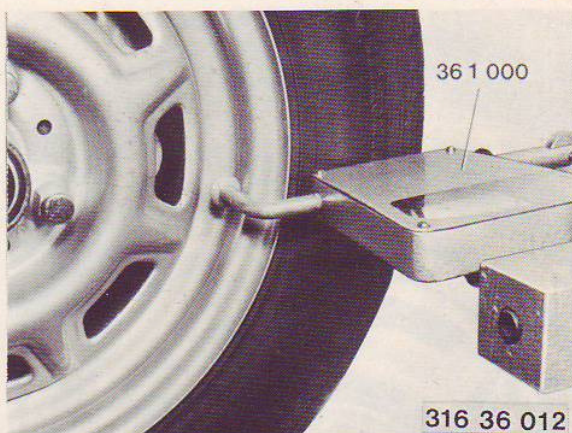
Check wheel for vertical runout¹⁾ with measuring device 36 1 000.



Check lateral runout¹⁾ of rim with measuring device 36 1 000.



Check vertical runout¹⁾ of rim with measuring device 36 1 000.



¹⁾ See specifications

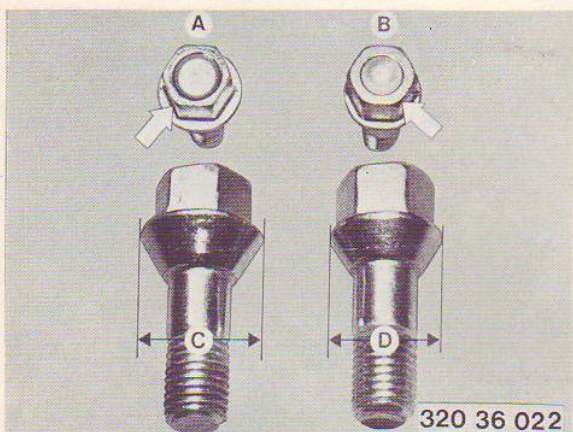


36 10 300 Front or rear wheel – detaching and attaching

Remove wheel bolts.

Warning: wheel is electronically balanced. Before removal, mark wheel with pencil in relation to hub.

When installing: note correct tightening torque¹⁾. Grease wheel bolts lightly before inserting.



Important:

Wheel bolts A = for aluminum rims

Wheel bolts B = for steel rims

External distinguishing marks:

cylindrical milled recess on wheel bolts A, spherical milled recess on wheel bolts B.

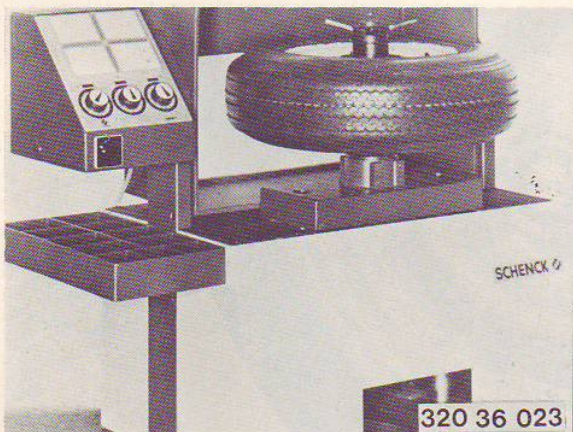
Cone diameter on wheel bolts A = C

23 + 0.5 mm (0.906 + 0.020 in)

Cone diameter on wheel bolts B = D

21 + 0.5 mm (0.827 + 0.020 in).

Never use wheel bolts for steel rims on aluminum rims.



36 10 508 Road wheel – static and dynamic balancing (stationary) – wheel removed –

Remove old balance weights, stones from tire tread and heavy dirt deposits.

Balance the wheel in accordance with the instructions accompanying the wheel balancer in use.



Position of drive-on balance weights for steel rims.

Attach 1 weight for imbalance up to 70 g (2.5 oz), and two for imbalance above 70 g.

Note maximum imbalance per wheel und per side¹⁾.

¹⁾ See specifications

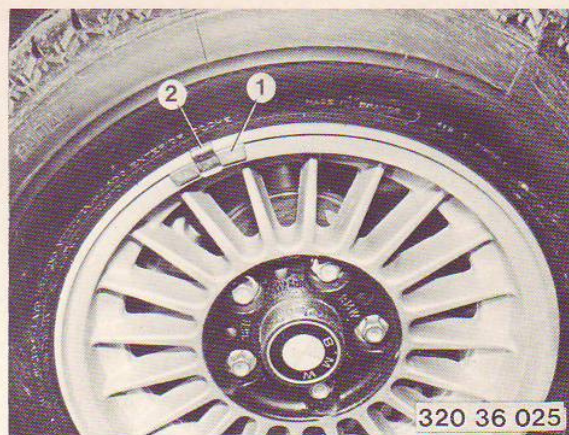
Position of balance weights for light-alloy rims:

1 = Balance weight

2 = Retaining clip

Use only 1 weight for imbalance up to 60 g (2.12 oz).

Note maximum imbalance per wheel and per side¹⁾.



¹⁾ See specifications