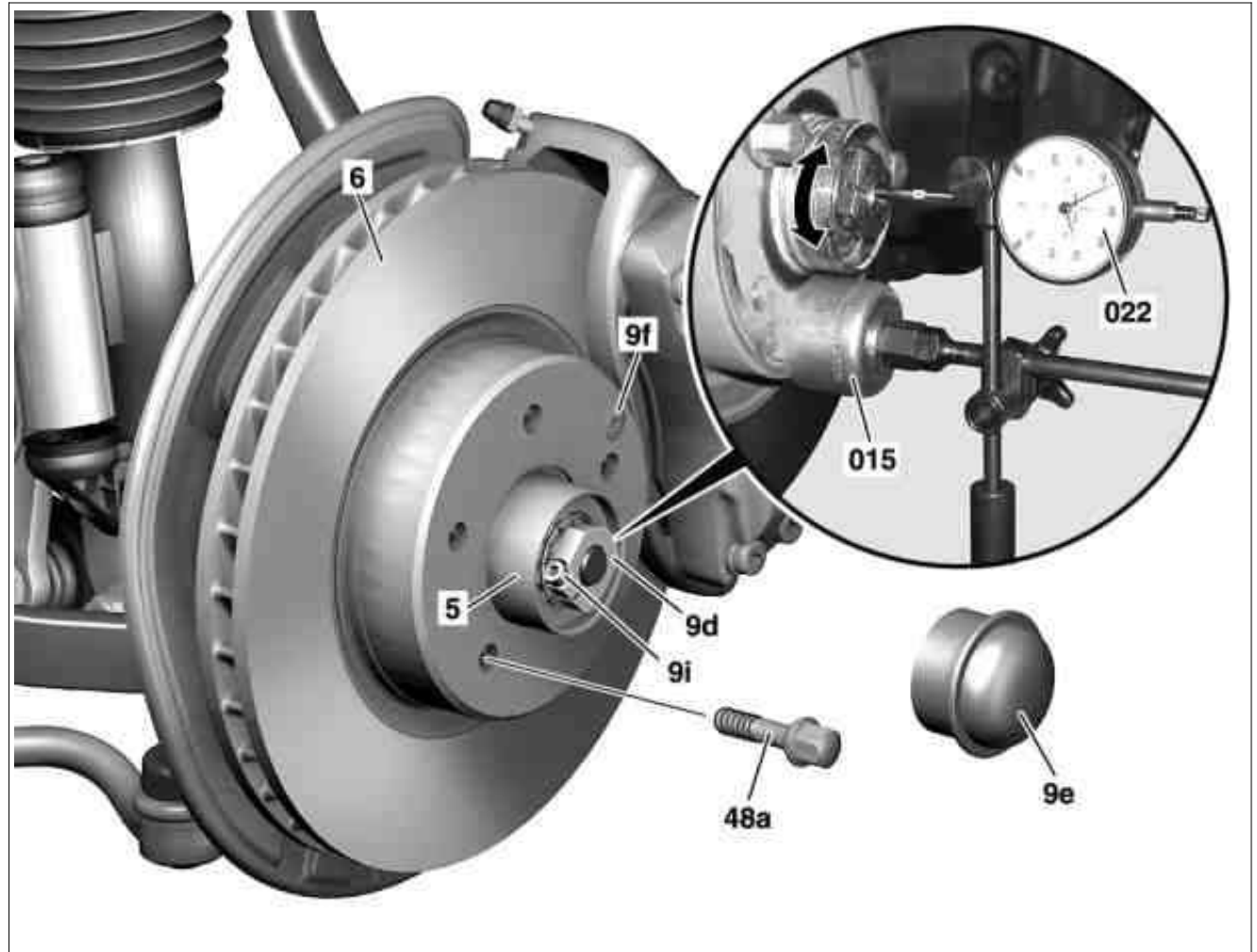


**Document title** Adjust wheel bearing play

**Document number** ar3320p0300sx

- Model 212**  
except code M005 (Vehicles with 4MATIC/all-wheel drive)
- Model 216**  
without 4MATIC
- Model 218**  
except code M005 (Vehicles with 4MATIC/all-wheel drive)
- Model 221**  
except code Z07 (B7 armoring on special protection version)  
without 4MATIC

- 015 Dial indicator holder  
022 Mount dial indicator  
5 Front wheel hub  
6 Brake disk  
9d Clamp nut  
9e Hub cover  
9f Locking bolt  
9i Hexagon socket head screw  
48a Wheel bolt



P33.20-2245-06

	Remove		
1	Ensure vehicle idle (bus idle)	MODEL 221.095/195	AR54.10-P-2000-01SX
2	Remove front wheel	Model 216, 221 MODEL 212, 218	AP40.10-P-4050SX AP40.10-P-4050EW
3	Screw in wheel bolt (48a) opposite safety screw (9f)	Until the brake disk (6) is fixed.	
4	Press brake pads back into brake caliper		
5	Pull off hub cap (9e) using removal and installation tool	Removal and installation tool	*116589223300
	<b>Check</b>		
6	Slacken hexagon socket head screw (9i) and lightly tighten clamping nut (9d) whilst rotating the front wheel hub (5)	To set up the wheel bearing.	
7	Loosen clamping nut (9d) slightly	A small amount of play must be noticeable.	
8	Mount dial indicator (022) with dial indicator holder (015) to brake disk (6)	Dial indicator holder Dial gage	*363589022100 *001589532100
9	Adjust wheel bearing play by turning (arrow) the clamping nut (9d) in stages while pushing and pulling the brake disk (6) firmly back and forth	Incorrect measurement may result in the set wheel bearing play being too small. This can then lead to wheel bearing damage. Do not twist or tilt front wheel hub (5) during the measurement. Correct measurement is only possible by pulling and pushing parallel to the wheel axle. Model 216, 221 Wheel bearing play at front axle MODEL 212, 218 Wheel bearing play at front axle	*BE33.20-P-1002-01A *BE33.20-P-1001-01F

10	Tighten hexagon socket head screw (9i) and check wheel bearing play again	Model 212 Bolt for locknut on front-wheel mounting Model 216, 221 Bolt for clamp nut used to adjust front-axle wheel bearing play Model 218 Bolt for clamp nut to adjust front axle wheel bearing play	*BA33.20-P-1001-01O *BA33.20-P-1001-01M *BA33.20-P-1001-01Q
11	Remove the dial gauge (022) and its stand (015)		
	<b>Install</b>		
12	Fill hub cap (9e) with high-temperature roller bearing grease High temperature antifriction bearing grease (NLGI grade 2)		BB00.40-P-0265-01A
13	Mount hub cover (9e)	Removal and installation tool	*116589223300
14	Remove wheel bolt (48a)		
15	Mount front wheel	Model 216, 221 MODEL 212, 218	AP40.10-P-4050SX AP40.10-P-4050EW AS42.50-Z-0002-01A
	<b>Risk of accident</b> when commissioning the vehicle due to a lack of braking effect when the service brake is operated for the first time after repair work.	Before starting the engine, actuate brake pedal several times until pressure is built up and maintained in the brake system.	
16.1	Press brake pedal several times in succession until a firm resistance is noticeable.	MODEL 212, 216, 218, MODEL 221 (except 221.095/195)	
16.2	Depress brake pedal 10 times fully and quickly.	MODEL 221.095/195	

#### Test specifications for wheel location, wheel hub

Number	Designation	Model 212	Model 218
BE33.20-P-1001-01F	Wheel bearing play at front axle	mm	0,01...0,02

#### Test values for wheel location, wheel hub

Number	Designation	Model 216	Model 221
BE33.20-P-1002-01A	Wheel bearing play at front axle	mm	0,01...0,02

#### Wheel control, hub

Number	Designation	Model 216.37	MODEL 221.003/ 02/05/07/095/ 103/12/15/17/195 except CODE Z07 except CODE Z19 except 4MATIC
BA33.20-P-1001-01M	Bolt for clamp nut used to adjust front-axle wheel bearing play	Nm	11

#### Wheel control, hub

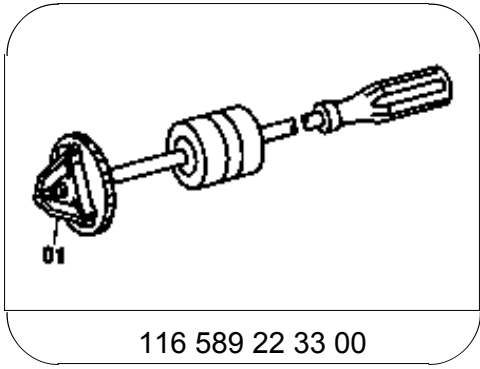
Number	Designation	MODEL 221.08/ 094/18/194 except CODE Z07 except 4MATIC
BA33.20-P-1001-01M	Bolt for clamp nut used to adjust front-axle wheel bearing play	Nm

#### Wheel control, hub

Number	Designation	Model 212 except 4MATIC
BA33.20-P-1001-01O	Bolt for locknut on front-wheel mounting	Nm

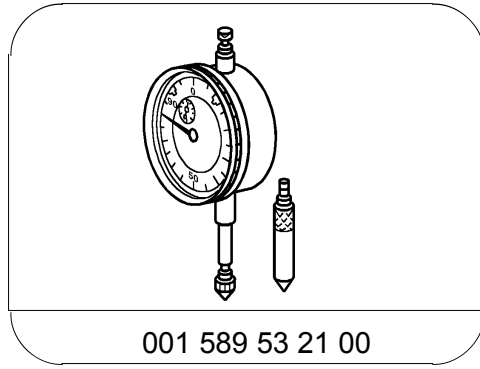
#### Wheel control, hub

Number	Designation	MODEL 218 except 4MATIC	MODEL 218 with 4MATIC
BA33.20-P-1001-01Q	Bolt for clamp nut to adjust front axle wheel bearing play	Nm	11



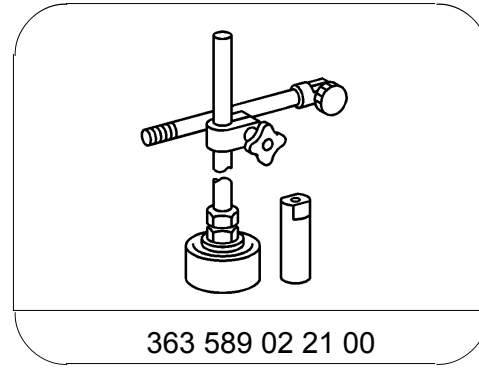
116 589 22 33 00

Removal and installation tool



001 589 53 21 00

Dial gage



363 589 02 21 00

Dial indicator holder