

MODEL 211 (except 211.08 /09 /28 /29)

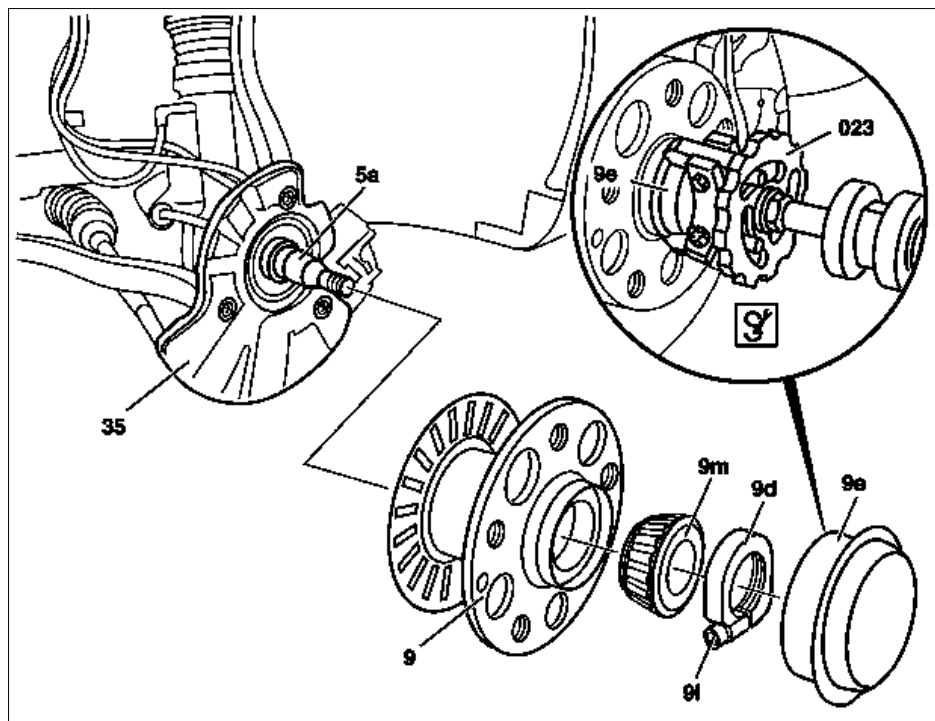
MODEL 215

MODEL 220 (except 220.08 /18)

MODEL 230 except CODE (P99) "AMG Black Series" special model

Shown on model 220

- 023 Slide hammer puller
 5a Stub axle
 9 Front wheel hub
 9d Clamp nut
 9e Hub cover
 9i Hexagon socket head screw
 9m Outer tapered roller bearing
 35 Brake caliper dust shield



















P33.20-2003-06

Modification notes

8.6.05	Filling capacity, hub (total filling quantity)	Model 211	*BF33.20-P-1001-01A
	Filling capacity, hub (total filling quantity)	Model 215	*BF33.20-P-1001-01A
	Filling capacity, hub (total filling quantity)	Model 219	*BF33.20-P-1001-01A
	Filling capacity, hub (total filling quantity)	Model 220	*BF33.20-P-1001-01A
	Filling capacity, hub (total filling quantity)	Model 230	*BF33.20-P-1001-01A

	Remove/install		
Danger!	Risk of injury caused by body parts being jammed or crushed. Risk of injury to skin and eyes caused by brake fluid spraying out at high pressure when working on the SBC brake system	Deactivate SBC brake system using STAR DIAGNOSIS.	AS42.46-Z-0001-01A
	When working on the front-end assembly, be careful not to scratch, mark or notch the surfaces of aluminum parts. Otherwise the service life of the parts will be affected		
	Notes on self-locking nuts and bolts		AH00.00-N-0001-01A
Installation	Only tighten nuts and bolts of chassis components when vehicle is in a ready-to-drive condition.		
1	Deactivate SBC brake system using STAR DIAGNOSIS.	Vehicles with Sensotronic Brake Control (SBC) The following steps should be run through in STAR DIAGNOSIS: Select menu item "SBC Sensotronic Brake Control"/"Deactivate 'SBC' system". Then process all the individual steps from top to bottom.	
2 AP	Remove front wheel Remove/install wheels		AP40.10-P-4050Z
3	Remove brake disc	Model 215, 220 Model 211, 230	AR42.10-P-0220I AR42.10-P-0220R

4	Pull off hub cap (9e)		*116589223300
5	Undo hexagon socket head screw (9i), remove clamp nut (9d) and remove outer tapered roller bearing (9m)	 Installation: Adjust wheel bearing play. Model 215, 220 (except 220.08 /18) Model 211 (except 211.08 /09 /28 /29), 230	AR33.20-P-0300A AR33.20-P-0300TX AR33.20-P-0310-01A
6	Pull off front wheel hub cover (9).	 If the front wheel hub (9) is seized, detach the front wheel hub (9) using a slide hammer puller (023).  Installation: Coat the radial sealing ring with grease and, if necessary, pack the space between the lip and outer tapered roller bearing (9m) with grease. Push the front wheel hub (9) with inner tapered roller bearing and radial sealing ring onto the steering knuckle spindle (5a).  Installation: Fill the front wheel hub (9) with grease.    	*201589103300 *001589503300 *201589013400 *BF33.20-P-1001-01A
	Check		
7	Check brake cover plate (35)	Replace if necessary.  Installation: When using a new brake cover plate (35), ensure that the rubber grommet that seals the wheelspeed sensor socket is pushed onto the wheelspeed sensor.	
8	Check steering knuckle spindle (5a) for discoloration and wear, and check bearing surface of radial sealing ring	 Discoloration can be caused by the excessive heat that can result from incorrect bearing adjustment: ↓ Replace stub axle. Model 211 Model 220.8 Model 220 with code (979) Special protection version, code (Z07) top protection Model 215, 230 and 220 without special protection version, top protection	AR33.25-P-0400T AR33.25-P-0400MP AR33.25-P-0400MB AR33.25-P-0400I
9	Check front wheel hub (9)	 Check tapped holes and rotor teeth for damage, and if necessary: ↓ Install new front wheel hub (9).	
10	Check the lateral and radial runout of the front wheel hub (9)	Permissible lateral runout Permissible radial runout If permitted measurements are exceeded: ↓ Install new front wheel hub (9).	*BE33.20-P-1004-01A *BE33.20-P-1005-01A
11	Inspecting tapered roller bearing and bearing races	 Damaged bearings cannot be replaced; if necessary: ↓ Install new front wheel hub (9).	AR33.20-P-0310-02I
12	Install in the reverse order		
13.1	Activate SBC brake system using STAR DIAGNOSIS	Vehicles with Sensotronic Brake Control (SBC)  The following steps should be run through in STAR DIAGNOSIS: Select "Initial startup following repair"/ "Replacement of brake disks" menu item. Then process all the individual steps from top to bottom.	
 Danger!	Risk of accident when commissioning the vehicle due to a lack of braking effect when the service brake is operated for the first time after repair work	Depress brake pedal several times before operating vehicle until pressure is built up and maintained in the brake system	AS42.50-Z-0002-01A
13.2	Push down brake pedal several times	Vehicles without Sensotronic Brake Control (SBC)	

Test specifications for wheel location, wheel hub

Number	Designation		Model 215	Model 220	Model 230
BE33.20-P-1004-01A	Front wheel hub flange lateral runout	mm	0.03	0.03	0.03
BE33.20-P-1005-01A	Radial runout on disk wheel alignment fitting of front wheel hub	mm	0.05	0.05	0.05

Test specifications for wheel location, wheel hub

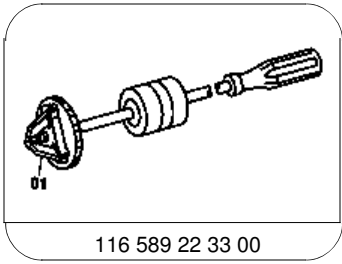
Number	Designation		Model 211
BE33.20-P-1004-01A	Front wheel hub flange lateral runout	mm	0.03
BE33.20-P-1005-01A	Radial runout on disk wheel alignment fitting of front wheel hub	mm	0.05

Wheel hub, cap

Number	Designation		Model 211	Model 215	
BF33.20-P-1001-01A	Filling capacity	Hub cover	g	15	15
		Hub (total capacity)	g	80	95
		Specifications for Operating Fluids	Sheet	BB00.40-P-0265-01 A	BB00.40-P-0265-01 A

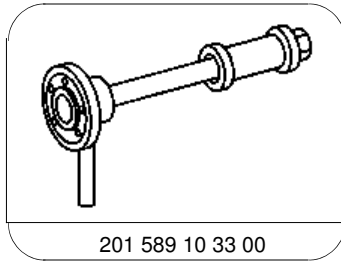
Wheel hub, cap

Number	Designation		Model 220	Model 230	
BF33.20-P-1001-01A	Filling capacity	Hub cover	g	15	15
		Hub (total capacity)	g	95	80
		Specifications for Operating Fluids	Sheet	BB00.40-P-0265-01 A	BB00.40-P-0265-01 A



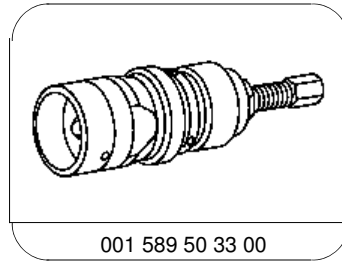
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Removal and installation tool



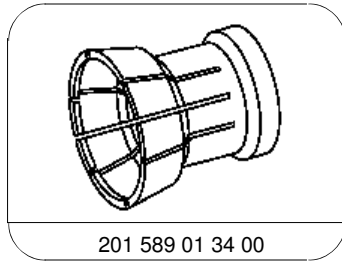
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Impact extractor



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Puller



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Chuck