

Model 166

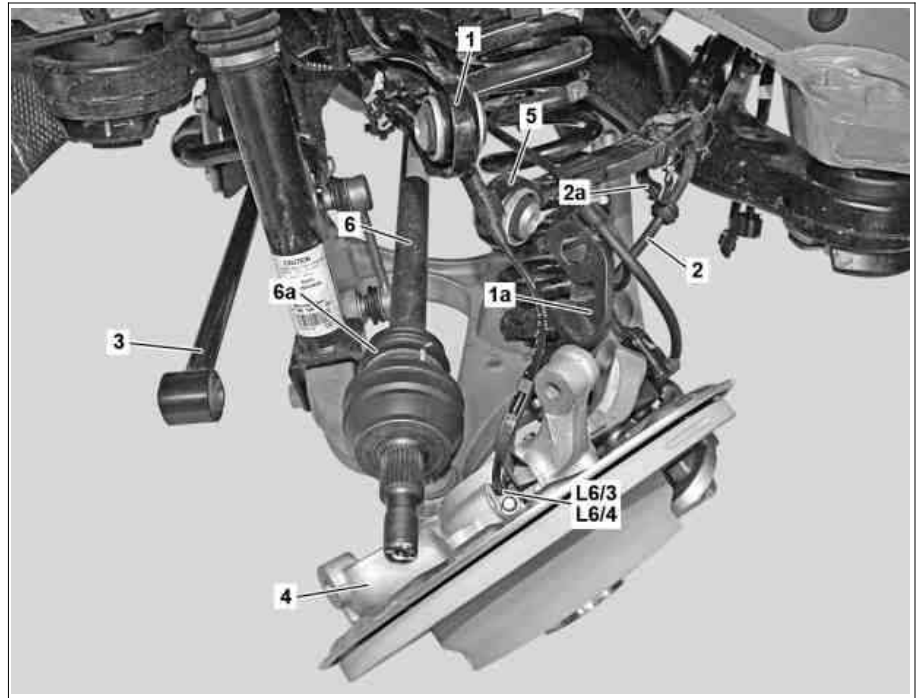
Model 292

Modification notes

10.10.2012	Self-locking nut, tie rod to wheel carrier	Model 166	BA35.20-P-1002-04F
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Shown on model 166.057

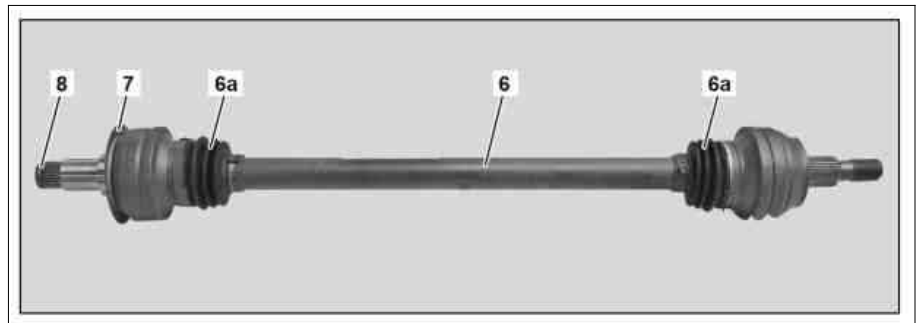
- 1 Camber strut
- 1a Bracket
- 2 Brake hose
- 2a Bracket
- 3 Tie rod
- 4 Wheel carrier
- 5 Strut rod
- 6 Rear axle shaft
- 6a Boots
- L6/3 Left rear axle rpm sensor
- L6/4 Right rear axle rpm sensor



P35.30-2147-06




















Illustration shows right rear axle shaft

- 6 Rear axle shaft
- 6a Boot
- 7 Protective ring
- 8 Retaining ring



P35.30-2148-04

	Risk of injury. Moving parts can pinch, crush or, in extreme cases even sever extremities.	No parts of the body or limbs should be within the operating range of the mechanism when moving components.	AS00.00-Z-0009-01A
⚠	Information on preventing damage to electronic components due to electrostatic discharge		AH54.00-P-0001-01A
⚠	Notes on self-locking nuts and bolts		AH00.00-N-0001-01A
i	Notes on repair work on suspension components		AH00.00-P-0100-01A
↔	Remove		
1	Raise vehicle using vehicle lift until the wheels are clear of the ground		AR00.60-P-1000GZ
2 AP	Detach rear complete wheel	Model 292 Model 166	AR40.10-P-1100GQC AP40.10-P-4050EW
3	Detach collar nut of rear axle shaft		

4	Detach, release and disconnect electrical connector of left rear axle rpm sensor (L6/3) and right rear axle rpm sensor (L6/4) from bracket on camber strut (1)		
5	Detach brake hose (2) from holder (2a)		
6	Detach tie rod (3) from wheel carrier (4)		
7	Detach camber strut (1) from wheel carrier (4)		
8	Detach torque strut (5) from wheel carrier (4)		
9	Push rear axle shaft (6) out of rear axle shaft flange and pry out of differential transmission	 Do not position the lever on the protective ring (7). Do not damage the boot (6a), brake hose (2) and actuator motor of the parking brake. Leakage resulting in function impairment can otherwise occur.  To do so, move the wheel carrier (4) forward and outward and push the rear axle shaft (6) together toward the differential transmission.  Extraction and insertion tool	*210589034300
	Check		
10	Check sealing ring in differential transmission for damage and replace if necessary		AR35.31-P-0545EW
11	Check boots (6a) of rear axle shaft (6) for damage and replace if necessary		AR35.30-P-0661P
	Install		
12	Install new retaining ring (8) on inner splined profile of rear axle shaft (6)		
13	Insert rear axle shaft (6) into differential transmission until it engages		
14	Insert rear axle shaft (6) into rear axle shaft flange	 Do not damage the boot (6a) and brake hose (2). Leakage resulting in function impairment can otherwise occur.	
15	Loosely attach tie rod (3) to wheel carrier (4)		
16	Loosely attach camber strut (1) to wheel carrier (4)	 Installation: Position the dog bone washer between the holder (1a) and camber strut (1).	
17	Loosely attach strut rod (5) to wheel carrier (4)		
18	Raise wheel suspension at supporting joint to driving level	 In order to move the rubber mounts of the wheel suspension to the neutral position.	
19	Tighten threaded connections of tie rod (3), camber strut (1) and strut rod (5) to wheel carrier (4)	 Self-locking nut, tie rod to wheel carrier  Self-locking nut, camber strut to wheel carrier  Self-locking nut, strut rod to wheel carrier	*BA35.20-P-1002-04F *BA35.20-P-1002-02F *BA35.20-P-1002-03F
20	Attach brake hose (2) to holder (2a)  Notes on installing brake hoses		AH42.10-P-9406-01GZ
21	Connect electrical connector of left rear axle rpm sensor (L6/3) and right rear axle rpm sensor (L6/4) and attach to bracket on camber strut (1)		
22	Tighten collar nut of rear axle shaft (6)	 Collar nut, rear axle shaft to rear axle shaft flange	*BA35.30-P-1001-01K
23	Mount rear complete wheel 	Model 292 Model 166	AR40.10-P-1100GQC AP40.10-P-4050EW
24	Check oil level in differential transmission and correct if necessary	 Model 292FE rear axle differential filling capacity  Model 292ALU rear axle differential filling capacity  Model 292ALU rear axle differential filling capacity  Filling screw for rear axle differential  Model 166 Filling capacity Sealant, Omnifit 100H (50 g) Loctite 7063 cleaning spray (150 ml)	AR35.31-P-0520-03SX *BF35.31-P-1003-02A *BF35.31-P-1002-02A *BF35.31-P-1001-02A *BA35.31-P-1001-02E *BF35.31-P-1001-01T *BR00.45-Z-1061-01A *BR00.45-Z-1046-04A
25	Lower vehicle		


Number	Designation			Model 166	Model 292
BA35.20-P-1002-02F	Self-locking nut, camber strut to wheel carrier	Stage 1	Nm	80	80
		Stage 2	⌵°	90	90

 Strut rod


Number	Designation			Model 166	Model 292
BA35.20-P-1002-03F	Self-locking nut, strut rod to wheel carrier	Stage 1	Nm	80	80
		Stage 2	⌵°	90	90

 Tie rod


Number	Designation			Model 166	Model 292
BA35.20-P-1002-04F	Self-locking nut, tie rod to wheel carrier		Nm	110	110

 Rear axle shaft


Number	Designation			Model 166	Model 292	
BA35.30-P-1001-01K	Collar nut, rear axle shaft to rear axle shaft flange	Stage 1	Nm	250	250	
		Stage 2	Loosen	⌵°	180	180
		Stage 3		Nm	200	200
		Stage 4		⌵°	30	30

 Rear axle differential housing

Number	Designation			Model 166	Model 292
BA35.31-P-1001-02E	Filling screw for rear axle differential		Nm	50	50

 Rear axle gear


Number	Designation			Model 166
BF35.31-P-1001-01T	Filling capacity	Rear axle differential 187 FE, Ø 187 mm	Liter	0,95
			Sheet	BB00.40-P-0235-07 A
		Rear axle differential 200 FE, Ø 200 mm	Liter	1,1
			Sheet	BB00.40-P-0235-07 A
		Rear axle differential 215 FE, Ø 215 mm	Liter	1,2
			Sheet	BB00.40-P-0235-07 A

 Rear axle differential

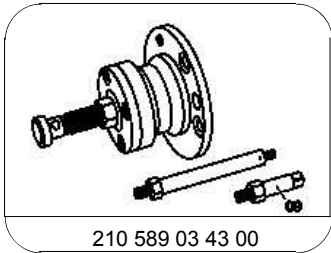
Number	Designation			Model 292
BF35.31-P-1001-02A	ALU rear axle differential filling capacity	ALU rear axle differential 183	Liter	0,8
		Sheet	-	

 Rear axle differential

Number	Designation			Model 292
BF35.31-P-1002-02A	ALU rear axle differential filling capacity	ALU rear axle differential 197	Liter	0,9
		Sheet	-	

 Rear axle differential

Number	Designation	Model 292
BF35.31-P-1003-02A	FE rear axle differential filling capacity	FE rear axle differential 215 Sheet
		Liter 1,2
		BB00.40-P-0235-07 A



Extraction and insertion tool

Repair materials

Number	Designation	Order number
BR00.45-Z-1046-04A	Loctite 7063 cleaning spray (150 ml)	A 001 986 71 71 10
BR00.45-Z-1061-01A	Sealant, Omnifit 100H (50 g)	A 002 989 23 71