

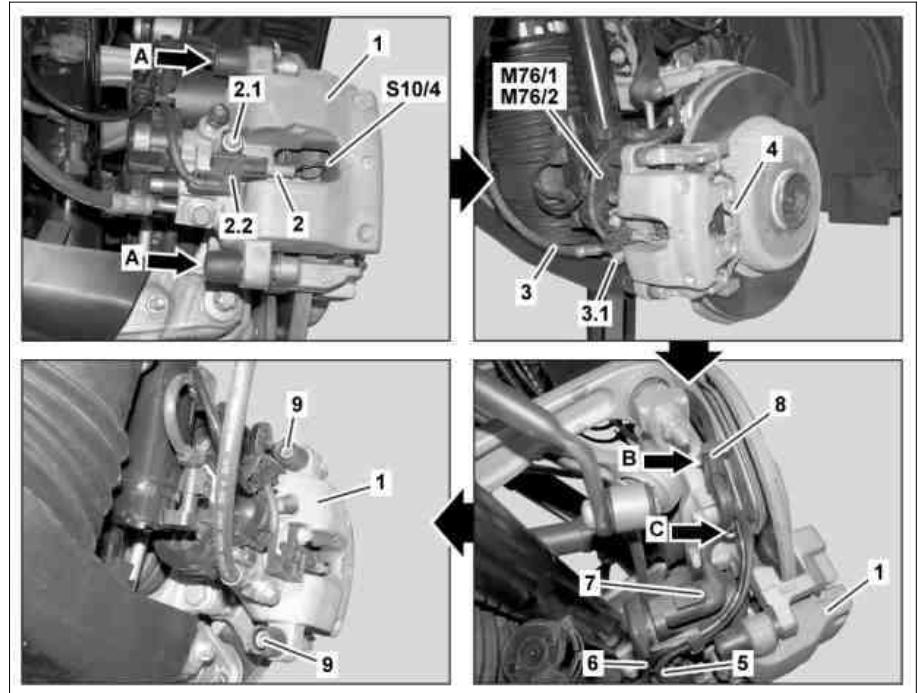
Model 205  
 Model 213  
 Model 253

### Modification notes

24.08.2017	Brake hose to brake caliper	Model 213 except code B07 (Ceramic brake system)	BA42.10-P-1002-04P
------------	-----------------------------	--	--------------------

Shown on model 205.040 with code 489 (AIRmatic)

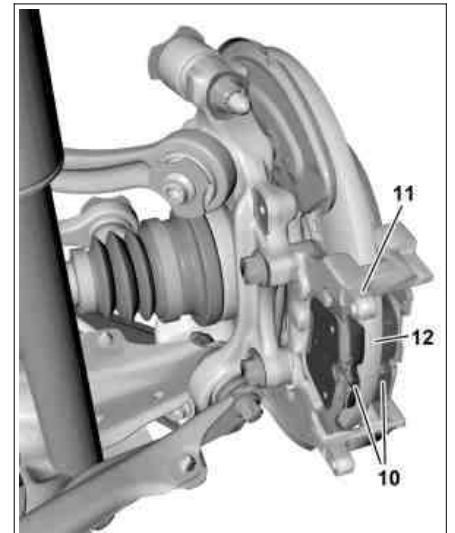
- 1 Brake caliper
- 2 Electrical connector
- 2.1 Screw
- 2.2 Brake wear sensor coupling housing
- 3 Brake hose
- 3.1 Screw
- 4 Spring
- 5 Electrical line
- 6 Electrical line
- 7 Electrical connector
- 8 Grommet
- 9 Guide pin
- M76/1 Left electric parking brake actuator motor
- M76/2 Right electric parking brake actuator motor
- S10/4 Right rear brake wear sensor



P42.10-2999-06








Shown on model 205.040

- 10 Brake linings
- 11 Caliper support
- 12 Brake disk



P42.10-3016-02

⚠ Danger	<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.	AS42.50-Z-0002-01A
⚠ Warning	<b>Risk of injury.</b> Skin or eye injuries may result when handling hot or glowing objects.	Wear protective gloves, protective clothing and safety glasses, if necessary.	AS00.00-Z-0002-01A
⚠ Caution	<b>Risk of poisoning</b> from swallowing brake fluid. <b>Risk of injury</b> from skin and eye contact with brake fluid	Only pour brake fluid into suitable and appropriately marked containers. Wear protective clothing and eye protection when handling brake fluid.	AS42.50-Z-0001-01A

Topical note	Notes on threaded connections fastened using a tightening angle-based tightening process		AH00.00-P-0020-01A
Topical note	Notes on handling, transport and storage of ceramic brake disks		AH42.10-P-9406-13A
Topical note	Brake fluid notes		AH42.50-P-0001-01A
Topical note	Notes on self-locking nuts and bolts		AH00.00-N-0001-01A
Topical note	Notes on repairs to brake system		AH42.00-P-0003-01A
	Notes on handling, transport and storage of composite brake disks		AH42.10-P-9406-12LF
	<b>Remove/install</b>		
1	Remove cover over the brake fluid expansion reservoir		
2	Clean area surrounding the cap of the brake fluid expansion reservoir	Assembly cleaner	*BR00.45-Z-1028-04A
3	Unscrew cap from brake fluid expansion reservoir and extract some brake fluid	 This prevents the expansion reservoir from overflowing when the brake pistons are pushed back.	
4	Move brake pads (10) of the rear axle into assembly position	Model 205, 253  Model 213  Do not operate the service brake while "Move to assembly position" is shown. Otherwise the spindle in the brake caliper (1) will be damaged.  The hood must be closed.	AR42.10-P-1700-02W  AR42.10-P-1710-01LWE
5	Switch off ignition and store transmitter key outside of transmission range (min. 2 m)		
6	Remove rear wheel		AR40.10-P-1101A
7	Remove dust caps (arrows A)	Model 205 (except 205.086/087/286/287/386/387/486/487) Model 253 (except 253.388/389/988/989)	
8	Remove spring (4) from brake caliper (1)	Model 205 (except 205.086/087/286/287/386/387/486/487) Model 253 (except 253.388/389/988/989)	
9	Unhook electric line (5) from holder (arrow C)		
10	Unhook electric line (5) from cover for left electric parking brake actuator motor (M76/1) or from cover for right electric parking brake actuator motor (M76/2)		
11	Unhook electric line (6) from holder (arrow C)	Model 205, 213 with code 489 (AIRMATIC) Model 253 with code 489 (AIR BODY CONTROL)	
12	Unhook electric line (6) from cover for left electric parking brake actuator motor (M76/1) or from cover for right electric parking brake actuator motor (M76/2)	Model 205, 213 with code 489 (AIRMATIC) Model 253 with code 489 (AIR BODY CONTROL)	
13	Unhook grommet (8) from holder (arrow B)		
14	Detach electrical connection (2) from brake wear sensor coupling housing (2.2)	When removing brake caliper (1) on right side of vehicle.	
15	Remove bolt (2.1) from brake wear sensor coupling housing (2.2)	When removing brake caliper (1) on right side of vehicle.	
16	Release and detach electrical connector (7) from left electric parking brake actuator motor (M76/1) or right electric parking brake actuator motor (M76/2)		
17.1	Remove bolt (3.1) from brake hose (3) and let brake hose (3) hang down on one side	Model 205 (except 205.086/087/286/287/386/387/486/487) Model 213 (except 213.088/089/288/289) Model 253 (except 253.388/389/988/989)  Seal the openings on the brake caliper (1) and brake hose (3) immediately. Otherwise adjacent components will be damaged by escaping brake fluid and the brake caliper (1) cannot be bled.  <b>Installation:</b> The new brake caliper (1) comes in prefilled condition and it must not be drained. Otherwise the brake caliper (1) cannot be vented.  Model 205 (except 205.086/087/286/287/386/387/486/487) Model 253 (except 253.388/389/988/989)Brake hose to brake caliper	*BA42.10-P-1002-04O

		<p> Model 213 (except 213.088/089/288/289) except code B07 (Ceramic brake system) Brake hose to brake caliper</p> <p> Record plug</p>	<p>*BA42.10-P-1002-04P</p> <p>*129589009100</p>
17.2	Remove brake hose (3)	<p>Model 205.086/087/286/287/386/387/486/487</p> <p>Model 213.088/089/288/289</p> <p>Model 253.388/389/988/989</p>	<p>AR42.10-P-0013LW</p>
18.1	Unscrew guide pins (9)	<p>Model 205 (except 205.086/087/286/287/386/387/486/487)</p> <p>Model 213 (except 213.088/089/288/289)</p> <p>Model 253 (except 253.388/389/988/989)</p> <p> Model 205 (except 205.086/087/286/287/386/387/486/487)</p> <p>Model 253 (except 253.388/389/988/989) Guide pin to brake caliper support or bolt for guide pin to brake caliper</p> <p> Model 213 (except 213.088/089/288/289) Guide pin to brake caliper support or bolt for guide pin to brake caliper</p>	<p>*BA42.10-P-1003-12V</p> <p>*BA42.10-P-1003-12W</p>
18.2	Remove screws/bolts from sliding bolts of brake caliper support (11)	<p>Model 205.086/087/286/287/386/387/486/487</p> <p>Model 213.088/089/288/289</p> <p>Model 253.388/389/988/989</p> <p> Model 205.086/087/286/287/386/387/486/487</p> <p>Model 253.388/389/988/989 Guide pin to brake caliper support or bolt for guide pin to brake caliper</p> <p> Model 213.088/089/288/289 Guide pin to brake caliper support or bolt for guide pin to brake caliper</p>	<p>*BA42.10-P-1003-12V</p> <p>*BA42.10-P-1003-12W</p>
19	Remove brake caliper (1) from brake caliper support (11)		
20	Remove left electric parking brake actuator motor (M76/1) or right electric parking brake actuator motor (M76/2) from the brake caliper (1)	When replacing the brake caliper (1).	<p>AR42.20-P-0600LW</p>
21	Remove brakepads (10) from brake caliper support (11)	When replacing the brake caliper support (11).	
22	Remove bolts of brake caliper support (11) and remove brake caliper support (11)	<p>When replacing the brake caliper support (11).</p> <p> Model 205, 253 Bolt, brake caliper/brake caliper support to wheel carrier</p> <p> Model 213 Bolt, brake caliper/brake caliper support to wheel carrier</p>	<p>*BA42.10-P-1001-12V</p> <p>*BA42.10-P-1001-12W</p>
	<b>Check</b>		
23	Check brake caliper (1) and dust boot on brake piston for leak tightness and damage	<p>If there are problems</p> <p style="text-align: center;">↓</p> <p>Replace brake caliper (1).</p>	
24.1	Check the guide pins (9) for ease of movement	<p>Model 205 (except 205.086/087/286/287/386/387/486/487)</p> <p>Model 213 (except 213.088/089/288/289)</p> <p>Model 253 (except 253.388/389/988/989)</p> <p>If there are problems</p> <p style="text-align: center;">↓</p> <p>Replace brake caliper (1).</p>	
24.2	Check the boots and sliding bolts on the brake caliper support (11) for damage and ease of movement	<p>Model 205.086/087/286/287/386/387/486/487</p> <p>Model 213.088/089/288/289</p> <p>Model 253.388/389/988/989</p> <p>If there are problems</p> <p style="text-align: center;">↓</p> <p>Replace brake caliper support (11).</p>	
25	Check brake linings (10) for wear and that they are in good condition	<p>Model 205</p> <p>Model 253</p> <p>Model 213</p> <p>If there are problems</p> <p style="text-align: center;">↓</p> <p>Replace brake linings (10).</p>	<p>AP42.10-P-4252CAA</p> <p>AP42.10-P-4252D</p> <p>AP42.10-P-4252E</p> <p>AR42.10-P-1710LW</p>

26	Check brake disk (12) for wear and that they are in good condition	Model 205 Model 213, 253 If there are problems ↓ Replace brake disks (12).  <b>i</b> Replace brake disks (12) as a complete set only.	AP42.10-P-4256EW AR42.10-P-0120LWG  AR42.10-P-0220EWE
27	Check brake hose (3) for damage	If there are problems ↓ Replace brake hose (3).	AR42.10-P-0013LW
28	Install in the reverse order		
29	Bleed brake system	Model 205, 253 Model 213	AR42.10-P-0010LW AR42.10-P-0010LWE
30	Depress brake pedal several times until brake linings (10) rest against brake disks (12)	<b>i</b> Firm resistance should be noticeable at the brake pedal.	
	<b>Check</b>		
31	Check and correct brake fluid level in expansion reservoir	Model 205 Model 213, 253	AP42.10-P-4210CAA AP42.10-P-4210B
32	Carry out brake test on the test stand		AP42.00-P-4290BA

**Nm** Rear axle brake caliper

Number	Designation			Model 205 (except 205.086/087/286/287/386/387/486/487)	Model 205.086/087/286/287/386/387/486/487
BA42.10-P-1001-12V	Bolt, brake caliper/brake caliper support to wheel carrier	Stage 1	Nm	60	60
		Stage 2	∠°	45	45

**Nm** Rear axle brake caliper

Number	Designation			Model 253
BA42.10-P-1001-12V	Bolt, brake caliper/brake caliper support to wheel carrier	Stage 1	Nm	60
		Stage 2	∠°	45

**Nm** Rear axle brake caliper

Number	Designation			Model 213
BA42.10-P-1001-12W	Bolt, brake caliper/brake caliper support to wheel carrier	Stage 1	Nm	60
		Stage 2	∠°	45

**Nm** Brake lines, brake hoses

Number	Designation			Model 205 (except 205.086/087/286/287/386/387/486/487)	Model 253
BA42.10-P-1002-04O	Brake hose to brake caliper	Front axle	Nm	24	24
		Rear axle	Nm	38	38

**Nm** Brake lines, brake hoses

Number	Designation	Model 213 except code B07 (Ceramic brake system)

BA42.10-P-1002-04P	Brake hose to brake caliper	Front axle	Nm	24
		Rear axle	Nm	42

**Nm** Rear axle brake caliper

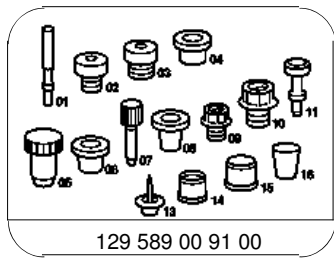
Number	Designation	Model 205 (except 205.086/087/286/287/386/387/486/487)	Model 205.086/087/286/287/386/387/486/487
BA42.10-P-1003-12V	Guide pin to brake caliper support or bolt for guide pin to brake caliper Nm	25	35

**Nm** Rear axle brake caliper

Number	Designation	Model 253
BA42.10-P-1003-12V	Guide pin to brake caliper support or bolt for guide pin to brake caliper Nm	25

**Nm** Rear axle brake caliper

Number	Designation	Model 213
BA42.10-P-1003-12W	Guide pin to brake caliper support or bolt for guide pin to brake caliper Nm	25



Record plug

Repair materials

Number	Designation	Order number
BR00.45-Z-1028-04A	Assembly cleaner	Adolf Würth GmbH & Co. KG Reinhold-Würth-Str. 12-17 74653 Künzelsau-Gaisbach Germany Tel. +49 7940 15-0 Fax +49 7940 15-1000 <a href="http://www.wuerth.de">http://www.wuerth.de</a>