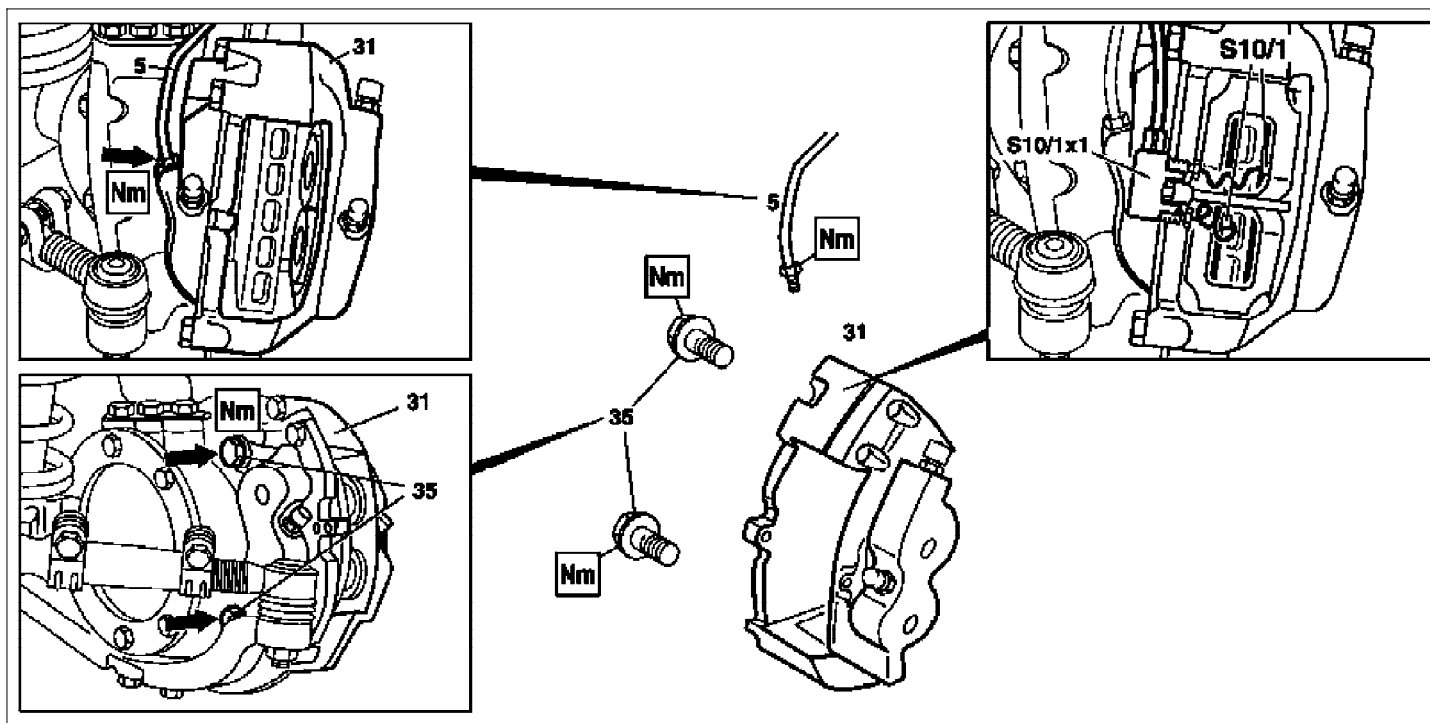


**MODELS** 460, 461.217 /219 /223 /227 /229 /238 /239 /249 /266 /267 /302 /321 /322 /323 /326 /327 /328 /329 /3 32 /335 /336 /337 /338 /341 /342 /345 /365 /366 /367 /368 /401 /402 /403 /404 /405 /450 /451 /452 /454 /455 /456 /458 /459, 463.200 /204 /206 /207 /208 /209 /220 /221 /224 /225 /227 /228 /230 /231 /232 /233 /240 /241 /243 /244 /245 /246 /247 /248 /249 /250 /254 /300 /304 /307 /308 /309 /320 /321 /322 /323 /324 /325 /327 /328 /330 /331 /332 /333



P42.10-0329-09

5 Brake line  
31 Fixed brake caliper  
35 Bolts

S10/1 Left front brake pad contact sensor  
S10/1x1 Left front brake pad contact sensor connector

☒ ☒	Remove/Install		
⚠ <b>Danger!</b>	<b>Risk of poisoning</b> from swallowing brake fluid. <b>Risk of injury</b> from skin and eye contact with brake fluid.	Pour brake fluid only into suitable and appropriately marked containers. Wear protective clothing and eye protection when handling brake fluid.	AS42.50-Z-0001-01A
⚠ <b>Danger!</b>	<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 commissioning the vehicle, operate the brake pedal several times until the pressure in the brake system is built up and maintained.	AS42.50-Z-0002-01A
ⓘ	Notes on brake fluid	All models	AH42.50-P-0001-01A
ⓘ	Notes on repairs to brake system	All models	AH42.00-P-0003-01A
1	Detach brake line (5) from fixed brake caliper (31).	ⓘ Seal off connection immediately with plugs to prevent the brake fluid reservoir running empty. Nm ☒	*BA42.10-P-1002-04B *000589750300
2	Disconnect left front brake pad contact sensor (S10/1) from left front brake pad contact sensor connector (S10/1x1)		
3	Unscrew connector for left front brake pads (S10/1x1) at the fixed brake caliper (31)	ⓘ <b>Installation:</b> Install new micro-encapsulated bolt otherwise the bolts may loosen. Nm	*BA42.10-P-1003-02B
4	Unbolt fixed caliper (31) from steering knuckle	ⓘ <b>Installation:</b> Install new micro-encapsulated bolts (35) otherwise they may loosen. Nm Nm ⓘ If necessary, recondition fixed brake caliper of front axle.	*BA42.10-P-1002-02B *BA42.10-P-1004-02B AR42.10-P-0105GG

5	Install in the reverse order		
6	Bleed brake system	Models 460, 461, 463 except 463.248 with code 979. Model 463.248 with code 979	AR42.10-P-0010GG AR42.10-P-0010GS
7.1	Check brake system for leaks	Models 460, 461, 463 except 463.248 with code 979.	AR42.10-P-0100-01A
7.2	Checking braking system for leaks using pressure gauge	Models 460, 461, 463 except 463.248 with code 979.	AR42.10-P-0015GG
7.3	Inspect braking system for proper operation and leaks	Model 463.248 with code 979	AR42.10-P-0014GS

**Nm Brake lines, brake hoses**

Number	Designation		Models 460	Model 461	Model 463.200/204/206/ 207/208/209/220/221/ 224/225/227/228/230/ 231/232/233/240/241/ 300/304/307/308/320/ 321/324/325/327/328/ 330/331
BA42.10-P-1002-04B	Brake line to fixed brake caliper	Nm	18	18	18

**Nm Brake lines, brake hoses**

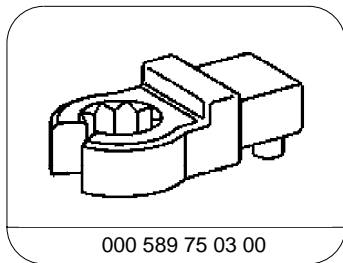
Number	Designation		Model 463.243/ 244/245/246/ 247/248/249/ 250/254/309/ 322/323/332/333
BA42.10-P-1002-04B	Brake line to fixed brake caliper	Nm	15

**Nm Front axle fixed caliper**

Number	Designation		Models 460	Model 461, 463.200/204/206/207/ 208/209/220/221/224/ 225/227/228/230/231/ 232/233/240/241/300/ 304/307/308/320/321/ 324/325/327/328/330/ 331	
BA42.10-P-1002-02B	Bolt, fixed brake caliper to steering knuckle		Nm	265	265
BA42.10-P-1003-02B	Self-locking bolt, brake pad wear sensor to fixed brake caliper		Nm	30	30
BA42.10-P-1004-02B	Bolt, fixed brake caliper to joint housing	M14X1,5-10.9	Nm	-	220
		X1M16	Nm	-	280

**Nm Front axle fixed caliper**

Number	Designation	Models 463.243/244/245/ 246/247/248/ 249/250/254/ 309/322/323/ 332/333	
BA42.10-P-1002-02B	Bolt, fixed brake caliper to steering knuckle	Nm	-
BA42.10-P-1003-02B	Self-locking bolt, brake pad contact sensor to fixed brake caliper	Nm	30
BA42.10-P-1004-02B	Bolt, fixed brake caliper to joint housing	M14X1,5-10.9	Nm 220
		M16X1,	Nm 280

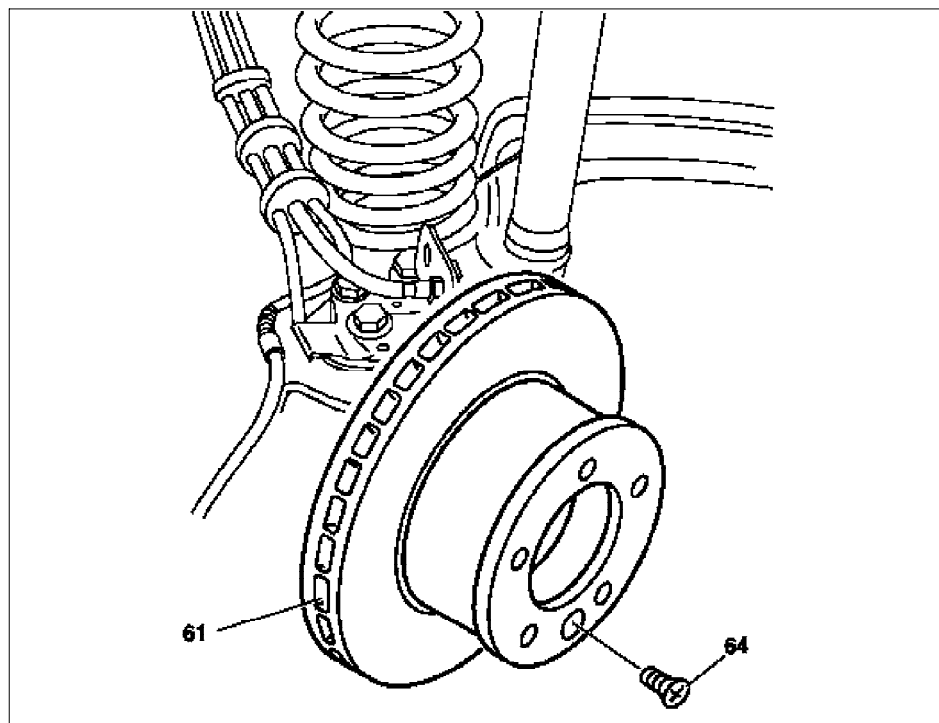


Ring wrench bit

**MODELS** 460, 461.217 /219 /223 /227 /229 /238 /239 /249 /266 /267 /302 /321 /322 /323 /326 /327 /328 /329 /3 32 /335 /336 /337 /338 /341 /342 /345 /365 /366 /367 /368 /401 /402 /403 /404 /405 /450 /451 /452 /454 /455 /456 /458 /459, 463.200 /204 /206 /207 /208 /209 /220 /221 /224 /225 /227 /228 /230 /231 /232 /233 /240 /241 /243 /244 /245 /246 /247 /248 /249 /250 /254 /300 /304 /307 /308 /309 /320 /321 /322 /323 /324 /325 /327 /328 /330 /331 /332 /333




Shown on front axle, model 463

61 Brake disk  
64 Security bolt



P42.10-0357-06

	Check		
<p>1</p> <p> AP</p> <p> AP</p> <p> AP</p>	<p>Check lining thickness of brake pads and condition of brake disks.</p>	<p>Model 460, 461 without brake wear indicator except 461.302/332/342/345</p> <p>Model 460, 461 with brake wear indicator except 461.302/332/342/345</p> <p>Models 463, 461.302/332/342/345</p> <p> If the brake pads are worn down beyond the permissible wear limit, the web between sealing groove and dust cap may be damaged, for this reason:</p> <p> Models 460/461/463 except 463.248 with code 979</p> <p>Inspect brake system for leaks with pressure tester.</p> <p> Model 463.248 with Code 979</p> <p>Check brake system for proper operation and leaks.</p>	<p>AP42.10-P-4251GG</p> <p>AP42.10-P-4251GA</p> <p>AP42.10-P-4251G</p> <p>AR42.10-P-0015GG</p> <p>AR42.10-P-0014GS</p>
<p></p>	<p><b>Remove/Install</b></p>		
<p> <b>Danger!</b></p>	<p><b>Risk of poisoning</b> caused by swallowing brake fluid. <b>Risk of injury</b> caused by brake fluid coming into contact with skin and eyes.</p>	<p>Pour brake fluid only into suitable and appropriately marked containers. Wear protective clothing and eye protection when handling brake fluid.</p>	<p>AS42.50-Z-0001-01A</p>
<p> <b>Danger!</b></p>	<p><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.</p>	<p>Before starting engine, actuate brake pedal several times until the pressure is built up and maintained in the brake system.</p>	<p>AS42.50-Z-0002-01A</p>
<p></p>	<p>Brake fluid notes</p>	<p>All models</p>	<p>AH42.50-P-0001-01A</p>
<p></p>	<p>Notes on repairs to brake system</p>	<p>All models</p>	<p>AH42.00-P-0003-01A</p>
<p>2</p>	<p>Remove brake pads from front axle fixed brake caliper</p>		<p>AR42.10-P-0161GG</p>
<p>3</p>	<p>Remove fixed caliper</p>		<p>AR42.10-P-0105GG</p>

4	Unscrew locking bolt (64) and remove brake disk (61)	 <b>Installation:</b> Always replace brake disks in pairs. Grease the machined seat of the brake disk (61) lightly with MB long-life grease. Replace locking bolt (64)	*BR00.45-Z-1001-06A  *BA42.10-P-1001-06B
5	Install in the reverse order		
6	Hydraulic brake system - check fluid level, correct if necessary		
			AP42.50-P-4210G *BF42.10-P-1001-01B

 **Brake discs, brake caliper dust shield**

Number	Designation		Models 460, 461	Model 463
BA42.10-P-1001-06B	Locking bolt, brake disk to wheel hub	Nm	25	25

 **Brake fluid**

Number	Designation		Models 460, 461	Model 463.200/204/206/ 207/208/209/220/221/ 224/225/227/228/230/ 231/232/233/240/241/ 300/304/307/308/320/ 321/324/325/327/328/ 330/331	
BF42.10-P-1001-01B	Brake fluid	Filling capacity	Liters	5 0,45-0,6	5 0.45...0.6
		Operating fluid provisions	Sheet	BB00.40-P-0330-01A	BB00.40-P-0330-01A
			Sheet	BB00.40-P-0331-00A	BB00.40-P-0331-00A

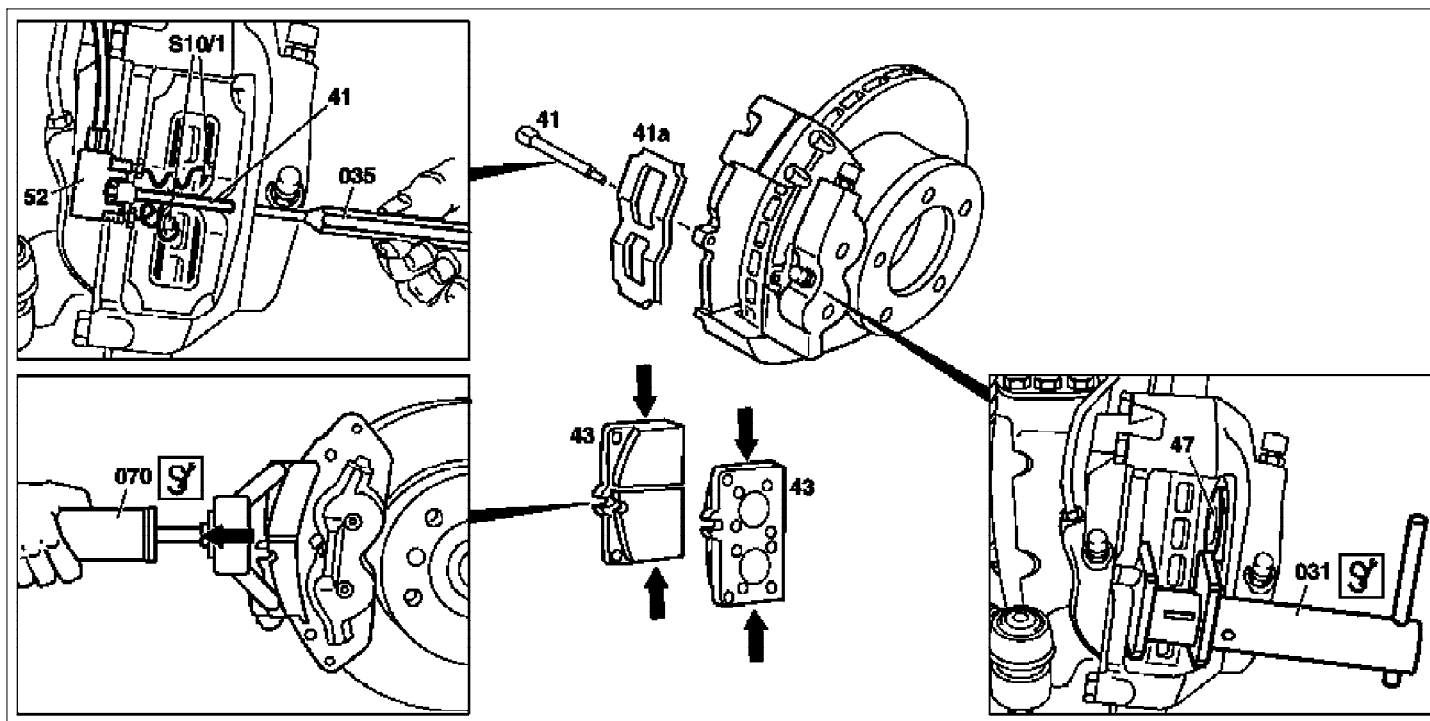
 **Brake fluid**

Number	Designation		Model 463.244/247 / 250/254/309 / 322/332	Model 463.243/245 / 246/248/249 / 270/271323 / 333	
BF42.10-P-1001-01B	Brake fluid	Filling capacity	Liters	5 0,81	5 0.83
		Specifications for Operating Fluids	Sheet	BB00.40-P-0330-01A	BB00.40-P-0330-01A
			Sheet	BB00.40-P-0331-00A	BB00.40-P-0331-00A

**Auxiliary repair materials**

Number	Designation	Order number
BR00.45-Z-1001-06A	MB long-life grease	000 989 63 51
BR00.45-Z-1004-06A	Brake pad paste	001 989 10 51

MODELS 460, 461.217 /219 /223 /227 /229 /238 /239 /249 /266 /267 /302 /321 /322 /323 /326 /327 /328 /329 /3 32 /335 /336 /337 /338 /341 /342 /345 /365 /366 /367 /368 /401 /402 /403 /404 /405 /450 /451 /452 /454 /455 /456 /458 /459, 463.200 /204 /206 /207 /208 /209 /220 /221 /224 /225 /227 /228 /230 /231 /232 /233 /240 /241 /243 /244 /245 /246 /247 /248 /249 /250 /254 /300 /304 /307 /308 /309 /320 /321 /322 /323 /324 /325 /327 /328 /330 /331 /332 /333

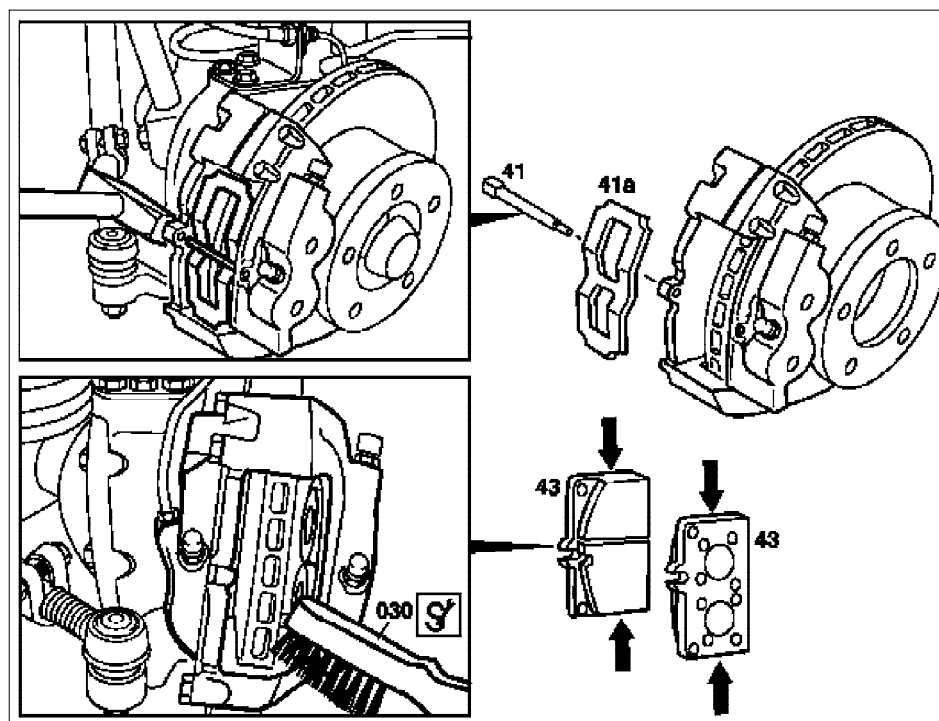


P42.10-0334-09

41 Retaining pin  
41a Spring steel sheet  
43 Brake pads  
52 Plug connection

031 Resetting device  
035 Penetration  
070 Extractor  
S10/1 Left front brake pad contact sensor

41 Retaining pin  
41a Spring steel sheet  
43 Brake pads  
030 Brake caliper brush





























P42.10-0337-06



**⚠ Danger!**

**Risk of poisoning** caused by swallowing brake fluid. **Risk of injury** caused by brake fluid coming into contact with skin and eyes.

**i** Pour brake fluid only into suitable and appropriately marked containers. Wear protective clothing and eye protection when handling brake fluid.

AS42.50-Z-0001-01A

 <b>Danger!</b>	<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.	 Operate brake pedal several times before driving the vehicle until pressure is built up and maintained in the brake system.	AS42.50-Z-0002-01A
	Brake fluid notes	All models	AH42.50-P-0001-01A
	Notes on repairs to brake system	All models	AH42.00-P-0003-01A
	<b>Check</b>		
1  <b>AP</b>	Check lining thickness of brake pads and condition of brake disks.	 Models 460, 461 without brake wear indicator.  Models 463, 461.302/332/342/345 with brake wear indicator.  If the brake pads have worn beyond the permissible service limit: "  Models 460, 461, 463 except 463.248 with code 979 Inspect brake system for leaks with pressure tester.  Model 463.248 with Code 979 Check brake system for operation and leaks	AP42.10-P-4251GG AP42.10-P-4251G AR42.10-P-0015GG AR42.10-P-0014GS
	<b>Remove/Install</b>		
2	Pull left front brake pad contact sensor (S10/1) or right front brake pad contact sensor (S10/2) out of the connector (52)		
3	Drive out retaining pin (41) using a drift (035)	 <b>Installation:</b> Hammer in retaining pin as far as the stop using a drift.	
4	Take out spring steel sheet (41a)		
5	Pull out brake pads (43) using extractor (070)	 If the brake disk is worn, push back the brake pads beforehand, otherwise the brake pads may be damaged.    <b>Installation:</b> Slightly lubricate brake pads (43) at sides (arrows) with brake pad paste.  Only complete sets of brake pads approved by Mercedes-Benz may be installed. Brake pads must be disposed of as special waste. Please ask local authorities if it is permitted to dispose of these parts as household-like industrial refuse.	*000589524300 *001589433300 *BR00.45-Z-1004-06A
6	Pull left front brake pad contact sensor (S10/1) or right front brake pad contact sensor (S10/2) out of the brake pad	 Replace defective contact sensor otherwise malfunctions in the brake wear indicator may occur	
7	Press back piston (47) using resetting device (031)	 Draw off some brake fluid beforehand to prevent the brake fluid reservoir overflowing when pressing back the piston  	*000589524300 *601589076300
8	In each case secure an opposite pair of pistons with plastic wedge to prevent the pistons from sliding out		
9	Press back the other pistons using the resetting device	 Do not bend the heat shield in the process. If the piston is difficult to move: "  Model 460, 461, 463. Repair front axle fixed brake caliper.	AR42.10-P-0150GG
10	Clean brake pad guide with brake caliper brush (030)		*000589266800
11	Install in the reverse order		
12	Check brake system for leaks	 Operate brake pedal several times until brake pads contact brake discs (firm resistance detectable).  Models 460, 461, 463 except model 463.248 with code 979  Model 463.248 with Code 979 Check brake system for operation and leaks	AR42.10-P-0100-01A AR42.10-P-0014GS

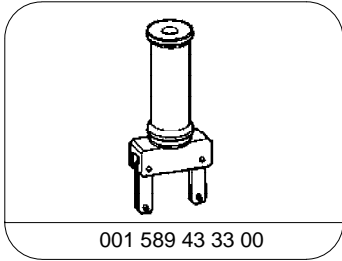
13	Hydraulic brake system - check fluid level, correct if necessary		
 AP			AP42.50-P-4210G *BF42.10-P-1001-01B

 Brake fluid

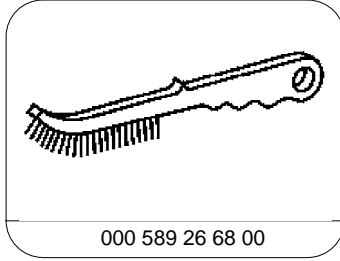
Number	Designation		Models 460, 461	Model 463.200/204/206/ 207/208/209/220/221/ 224/225/227/228/230/ 231/232/233/240/241/ 300/304/307/308/320/ 321/324/325/327/328/ 330/331	
BF42.10-P-1001-01B	Brake fluid	Filling capacity	Liters	5 0,45-0,6	5 0.45...0.6
		Operating fluid provisions	Sheet	BB00.40-P-0330-01A	BB00.40-P-0330-01A
			Sheet	BB00.40-P-0331-00A	BB00.40-P-0331-00A

 Brake fluid

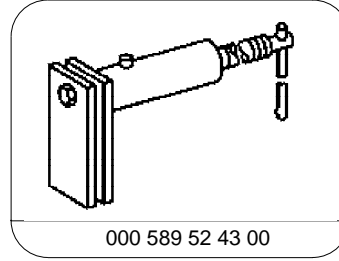
Number	Designation		Model 463.244/247 / 250/254/309 / 322/332	Model 463.243/245 / 246/248/249 / 270/271323 / 333	
BF42.10-P-1001-01B	Brake fluid	Filling capacity	Liters	5 0,81	5 0.83
		Specifications for Operating Fluids	Sheet	BB00.40-P-0330-01A	BB00.40-P-0330-01A
			Sheet	BB00.40-P-0331-00A	BB00.40-P-0331-00A



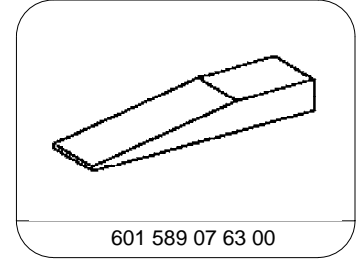
Extractor



Brake caliper brush



Resetting device



Wedge

**Auxiliary repair materials**

Number	Designation	Order number
BR00.45-Z-1004-06A	Brake pad paste	001 989 10 51