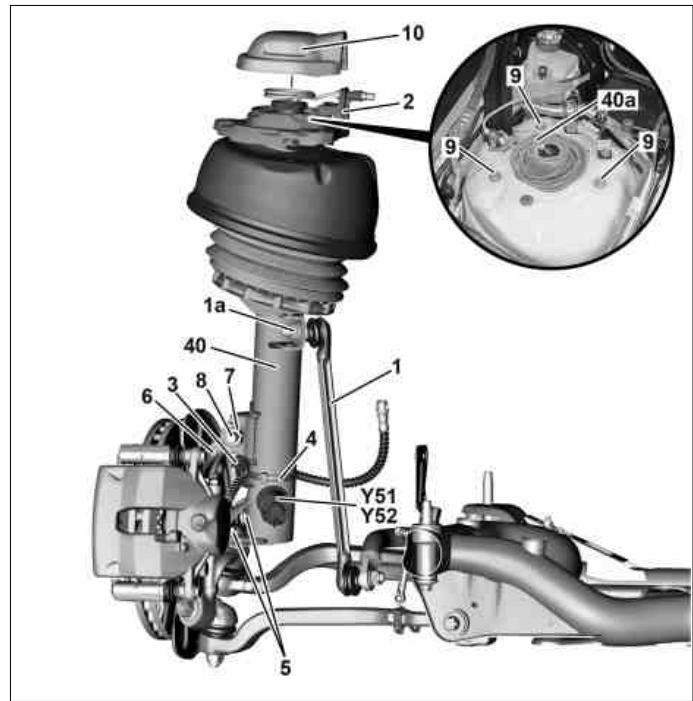


MODEL 212, 218 with CODE (489) AIRmatic (air suspension with continuous damper adjustment)

- 1 Link rod
- 1a Nut
- 2 Bracket
- 3 Line bracket
- 4 Cable tie
- 5 Lower screws
- 6 Steering knuckle
- 7 Nut
- 8 Top bolt
- 9 Bolts
- 10 Cover
- 40 Air suspension strut
- 40a Pressure line

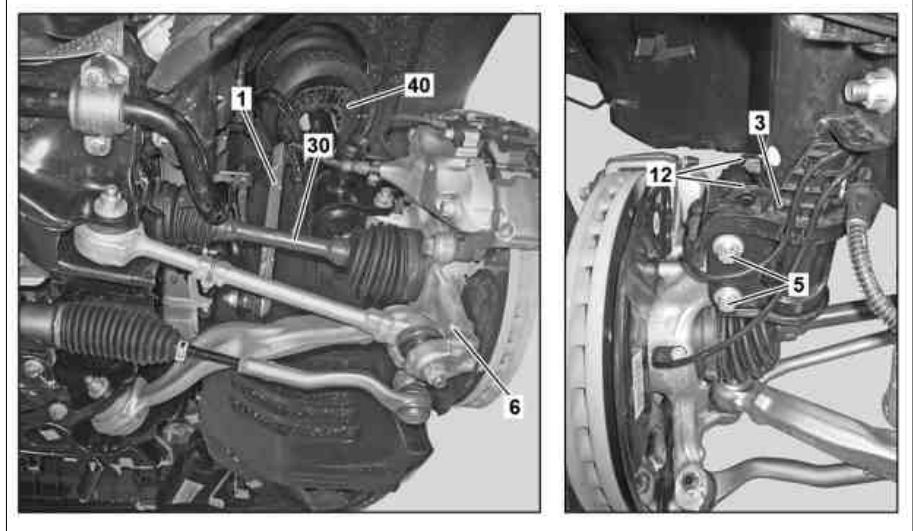
Y51 Left front axle damping valve unit
Y52 Right front axle damping valve unit



P32.22-2463-12






















Shown on vehicle with 4MATIC

- 1 Link rod
- 3 Line bracket
- 5 Lower screws
- 6 Steering knuckle
- 12 Clips
- 40 Air suspension strut



P32.25-2258-05

☒ ☒	Remove/install		
⚠ Danger!	Risk of injury caused by moving parts that 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
⚠ Danger!	Risk of death caused by vehicle slipping or toppling off of the lifting platform	Align vehicle between columns of vehicle lift and position four support plates at vehicle lift support points specified by vehicle manufacturer.	AS00.00-Z-0010-01A
ⓘ	Notes on self-locking nuts and bolts		AH00.00-N-0001-01A
ⓘ	Notes on AIRmatic		AH32.22-P-1000-02EW
1	Place front wheels in straight-ahead position		
2	Empty air spring (40) using STAR DIAGNOSIS	ⓘ Installation: If the air spring (40) is not installed and filled as per the specifications, it may become predamaged and fail later.	AD00.00-P-2000-04A
3	Switch off ignition		

4	Detach cover (10) and detach pressure line (40a) from air suspension strut (40)	<p> Installation: When reinstalling the old air spring (40) ensure that the pressure line (40a) is screwed carefully onto the plastic thread, as if screwed on improperly the plastic thread will be damaged and therefore the air spring (40) will be irreparably damaged.</p> <p> Installation: If a new air spring (40) is installed, detach the old pressure line connection on the pressure line (40a). To do this break open the clamping ring, detach pressure line connection and insert the pressure line (40a) up to the marking in the new pressure line connection.40. Pull back pressure line (40a) a short distance so that the peripheral retaining edges in the inside of the clamping ring engage in the line outer surface.</p> <p> Seal pressure line (40a) with blind plugs during repair work.</p> <p> Installation: Damaged pressure line connections or damage pressure lines (40a) must be repaired before assembly: ↓ Repair AIRmatic pressure line connection.</p> <p></p> <p> Socket wrench bit</p> <p> Knife</p> <p>Leak detection spray for USA</p>	<p>AR32.22-P-2001-02SX</p> <p>*BA32.22-P-1011-03E</p> <p>*211589000900</p> <p>*000589122800</p> <p>*BR00.45-Z-1002-03A</p> <p>*BR00.45-Z-1004-03A</p>
5	Detach bracket (2) with pressure line connection from air suspension strut (40)		
6	Remove front wheel		AP40.10-P-4050EW
7	Unscrew nut (1a) and remove link rod (1) from air suspension strut (40)	<p> When removing, counterhold at the ball head bolt with internal torx.</p> <p></p>	*BA32.20-P-1002-02P
8	Unclip electrical line of rpm sensor and brake wear sensor from line bracket (3)	 Brake wear sensor is only fitted on the right side.	
9	Remove cable tie (4) on air suspension strut (40)	<p>Vehicles without 4MATIC.</p> <p> Installation: Observe installation position and replace cable tie (4).</p> <p> Pliers</p>	*164589013700
10.1	Unclip line holder (3) from air suspension strut (40) and place to one side	Vehicles without 4MATIC.	
10.2	Open clips (12) and remove line bracket (3) from air suspension strut (40)	Vehicles with 4MATIC.	
11	Detach connector from left front-axle damping valve unit (Y51) or right front-axle damping valve unit (Y52)		
12	Remove lower bolts (5) from steering knuckle (6)	<p>Vehicles without 4MATIC.</p> <p></p>	*BA32.25-P-1002-04M
13	Secure steering knuckle (6) to prevent it from tilting away	 The brake hose and electrical feed cables must not be stretched.	
14.1	Unscrew nut (7) and pull out upper bolt (8)	<p>Vehicles without 4MATIC.</p> <p></p>	*BA32.25-P-1001-04M
14.2	Remove lower bolts (5) from steering knuckle (6)	<p>Vehicles with 4MATIC</p> <p></p>	*BA32.25-P-1005-04M
15	Remove bolts (9) from suspension strut tower		*BA32.25-P-1003-04M
16	Remove air suspension strut (40)	<p> Installation: There may be no intrusions on the protective boot otherwise the inner air spring bellows will be damaged by spring movement.</p>	
	Checking		
17	Check air suspension strut (40)	 When replacing or reinstalling, the condition should be checked and the air suspension strut (40) should be replaced in the event of damage or complaint.	AR32.25-P-1017-02T
 Danger!	Risk of injury caused by drilling gas-filled assemblies or components (noncombustible gases)	Wear safety glasses and a face mask.	AS00.00-Z-0006-01A

OS	Dispose of suspension strut		OS32.25-P-0122-01SX
19	Install in the reverse order		
20	Check AIRmatic for leaks	Model 212 Model 218	AR32.22-P-8100EW AR32.22-P-8100EL
21	Read out fault memory with STAR DIAGNOSIS and erase if necessary		AD00.00-P-2000-04A
Danger!	Risk of accident caused by vehicle starting off by itself when engine is running. Risk of injury caused by contusions and burns during starting procedure or when working near the engine as it is running	Secure vehicle to prevent it from moving by itself. Wear closed and snug-fitting work clothes. Do not touch hot or rotating parts.	AS00.00-Z-0005-01A
22	Perform engine test run and check AIRmatic for proper operation		
23	Perform wheel alignment check		AR40.20-P-0200EW

Front axle stabilizer bar

Number	Designation		Model 212	Model 218
BA32.20-P-1002-02P	Nut, link rod to suspension strut	Nm	98	98

Air suspension

Number	Designation		Model 212	Model 218
BA32.22-P-1011-03E	Pressure line to front suspension strut/valve unit	Nm	2 (+0.5)	2 (+0.5)

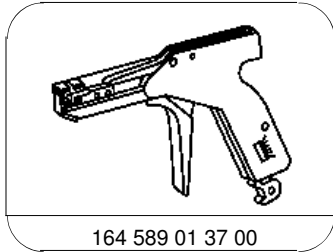
Suspension struts

Number	Designation		Model 212 .00/02/04/05/072/073/14/15/20/22/24/25/272 with code 489, model 212.077/277	Model 218.30/32/35/373 with code 489, model 218.374
BA32.25-P-1001-04M	Suspension strut to upper steering knuckle M14×45	Stage 1	Nm 100	100
		Stage 2	Δ° 90	90
BA32.25-P-1002-04M	Suspension strut to lower steering knuckle M12×20	Stage 1	Nm 70	70
		Stage 2	Releasing	Releasing
		Stage 3	Nm 100	100
BA32.25-P-1003-04M	Suspension strut to body		Nm 33	33

Suspension struts

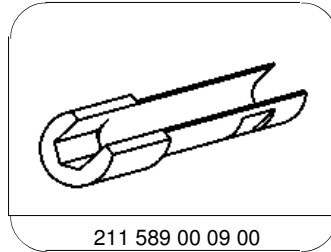
Number	Designation	Model 212.08/09/28/29 with code 489

BA32.25-P-1003-04M	Suspension strut to body			Nm	33
BA32.25-P-1005-04M	Damper strut onto steering knuckle	M14×70	Stage 1	Nm	120
			Stage 2	∠°	90



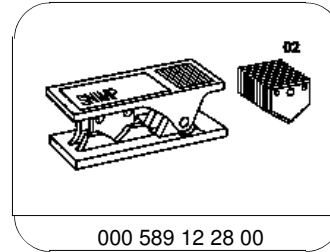
164 589 01 37 00

Pliers



211 589 00 09 00

Wrench socket



000 589 12 28 00

Slitting knife

Repair materials

Number	Designation	Order number
BR00.45-Z-1002-03A	Leak detection spray	Christof Fischer GmbH, Augsburger Str. 289-293, 70327 Stuttgart Germany Tel. +49 711 30502-0 Fax +49 711 30502-10 www.kaeltefischer.de
BR00.45-Z-1004-03A	Leakage spray for USA	LIQUI MOLY Gary Boyd 1820 Clark Avenue Long Beach, CA 90815 USA Tel. +1 562 5975519 Fax +1 562 5975269 www.liqui-moly.com