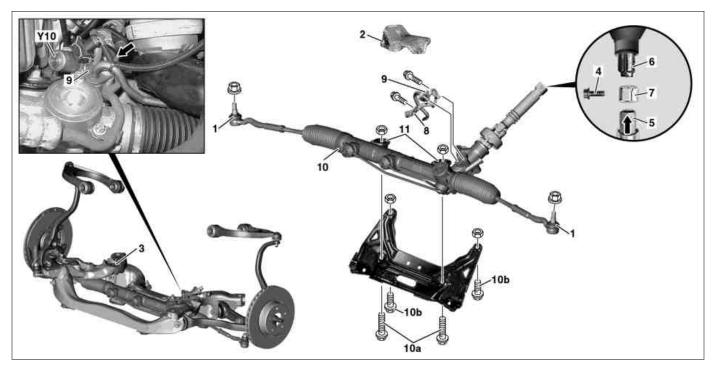
211 (except 211.08 /09 /28 /29) **MODEL**



P46.20-2143-09

Shown on model 211.016

- Tie rod joints Right heat shield 2
- 3 Front axle carrier
- Screw

5 Steering coupling

- Lower steering shaft locking plate Bracket 6
- 8
- Retaining plate Rack-and-pinion steering 10

10a Bolts

- 10b Screw
- Rubber bushing 11
- Y10 SPS [PML] solenoid valve

Modification notes

14.6.10	Value changed: Self-locking nut for tie rod to steering	*BA46.40-P-1001-01E
	knuckle, 2nd stage	

XX	Remove/install		
⚠ 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
1	Fully extend or pull out adjustable steering column	Required to separate the steering coupling (5) from the lower steering shaft (6).	
2	Deactivating entry/exit aid	On vehicles with Memory package (driver seat, steering column, mirrors), code 275. If the vehicle is equipped with the easy entry and exit feature, this will have to be deactivated first Otherwise the driver seat and steering wheel move into a different position when the driver door is open or closed. The upper frame may be damaged when the holding device is installed. Deactivation is carried out via the buttons on the steering wheel in the "Comfort" menu of the multifunction display.	
3	Turn steering wheel to center position (front wheels in straight-ahead position) and fix in place with clamping device	With a disengaged steering coupling (5) the steering wheel should not be turned because the spiral contact coil will be irreparably damaged.	*129589012100
4	Open engine hood		AR88.40-P-1000T
5.1	Remove front engine cover	Engine 272 i Pull the front engine cover upward and out of the mountings.	
5.0	Pomovo angino trim panal	Engine 620	A DO1 10 D 2405T I

		Engine 642	AR01.10-P-2405TI
6.1	Remove air filter housing	Engine 642 Engine 113.990	AR09.10-P-1150SVK
5.2	Remove cylinder head cover trim	Engine 646, 647	AR01.20-P-5014-02A
	Tomoro of machinese coron time	Engine 648	AR01.20-P-5014-02C
5.3	Remove intake air duct leading to left air filter	Engine 112, 113.967, 272	
5.4	Remove intake air ducts upstream of air filter	Engine 629	
,	Suction off oil from expansion reservoir of	8	*210589007100
	power steering		
³ ₩FAP	Remove front wheels Remove/install wheels, rotate if necessary		AP40.10-P-4050Z
9.1	Remove bottom section of soundproofing	Vehicles with diesel engine	AR94.30-P-5300T
9.2	Remove engine compartment paneling	Vehicles with gasoline engine	AR61.20-P-1105T
10	Press tie rod joints (1) off steering knuckles	verneree man gaeemne en gine	AR46.40-P-0200-02I
	(.,	Nm	*BA46.40-P-1001-01E
		3	*140589006300
		3	*124589033300
1.1	Detach right heat shield (2) from front axle carrier (3)	Vehicles with diesel engine	
1.2	Detach left heat shield from front axle carrier (3)	Vehicles with gasoline engine	
2	Detach steering coupling (5) from lower steering shaft (6)	i To do this, remove bolt (4).	
	5.55g 5 (v)	The locking plate (7) is available as a replacement part.	
		Installation: Insert a new self-locking nut	
		into the existing locking plate (7). Push on	
		locking plate (7) until the lug engages in the	
		steering coupling (5).	
		Nm	*BA46.10-P-1001-01E
13	Pull the lower steering shaft (6) upward to	Do not use force (hammer blows, a lot of	
	extract it from the steering coupling (5)	leverage) as the lower steering shaft (6) is	
		sensitive to the effects of side force. This	
		would cause distortion and render the lower	
		steering shaft (6) unusable.	
		installation: Rotate rack-and-pinion	
		steering (10) to the center position. Push	
		lower steering shaft (6) into steering coupling	
		(5) as far as the stop, observing the pins of	
		the steering coupling (5) and groove of the lower steering shaft (6):	
		J	
		Rotate rack-and-pinion steering to central	AR46.20-P-0600-01P
		position and install steering coupling.	
14	Separate electrical connector from SPS	On vehicles with speed-sensitive power	
	[PML] solenoid valve (Y10)	steering, code 213	
		i Remove cable tie (arrow).	
15	Remove the bracket (8) from the rack-and-		
	pinion steering (10)		
16	Remove the bracket (9) for the oil lines on	i Seal oil lines and rack-and-pinion	
	the rack-and-pinion steering (10) and then	steering (10) with stop plugs.	
	pull out the oil lines		
		Installation: Replace O-rings.	
		Nm	*BA46.20-P-1001-01F
		3	*129589009100
17	Support rack-and-pinion-steering (10) using	Transmission plate	
	transmission jack and platform	http://gotis.aftersales.mercedes-benz.com	
		Telescopic lifter	
		http://gotis.aftersales.mercedes-benz.com	
8	Detach rack-and-pinion steering (10) from	i To do so undo bolts (10a, 10b).	
	front axle carrier (3)		
		Installation: The bolts (10a, 10b), nuts	
		and area around the bolted joint must be	
		free from oil and grease. Under exposure to	
		heat the lubricants can liquify, allowing bolts and nuts to loosen.	
		Nm	*BA46 20 D 1002 015
		1 IINITI	*BA46.20-P-1002-01F
9	Carefully lower rack-and-pinion steering (10)	Transmission plate	
9	Carefully lower rack-and-pinion steering (10) and remove	Transmission plate http://gotis.aftersales.mercedes-benz.com	
19		Transmission plate	

20	Inspect rack-and-pinion steering (10)	After removal following damage due to accident.	
i	Evaluating steering rack when repairing accident vehicles		AH46.20-P-9409-01A
21	Check rubber mount (11) of rack-and-pinion steering mounting for damage.	i Replace rubber mount (11) in event of damage: ↓	
		Remove/install rubber mount of rack-and-pinion mounting.	AR46.20-P-0600-02I
		Lubricant paste	*BR00.45-Z-1002-06A
22	Check protective cap on input shaft of rack- and-pinion steering (10) for damage	i Replace if necessary: ↓	
		Remove/install protective cap for input shaft on steering gear.	AR46.20-P-0004P
23	Install in the reverse order		
24	Fill power steering pump and bleed	Model 211.00 /016 /023 /026 /028 /029/ 04 /20 /216 /223 /226 /24 /60 /61	AR46.30-P-0010T
		Model 211.020 /220 /022 /222 /06 /26 /62 /070 /270 /076 /276	AR46.30-P-0010P
		Model 211.05 /25 /072 /272	AR46.30-P-0010TS
⚠ Danger!	Risk of accident caused by vehicle starting off by itself when engine is running. Risk of	Secure vehicle to prevent it from moving by itself.	AS00.00-Z-0005-01A
	injury caused by contusions and burns during starting procedure or when working near the engine as it is running	Wear closed and snug-fitting work clothes. Do not touch hot or rotating parts.	
25	Carry out engine test run and check steering for function and leaks		
26	Check front axle toe and adjust if necessary	i When installing new parts.	
		See: ↓	
ı		Perform wheel alignment check	AR40.20-P-0200T

Nm Steering shaft

Number	Designation			Model 211 except 211.08/09/ 28/29
BA46.10-P-1001-01E	Bolt, steering coupling to steering shaft	Stage 1	Nm	30
		Stage 2	۷°	-

Nm Steering gear

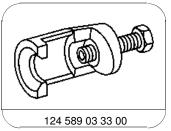
Number	Designation		Model 211 except 211.08/09/ 28/29
BA46.20-P-1001-01F	Bolt, oil line retaining plate to rack-and- pinion steering	Nm	18
BA46.20-P-1002-01F	Bolted connection, rack-and-pinion steering to front axle carrier	Stage 1 Nm	70
		Stage 2 \checkmark °	90

Nm Tie rod

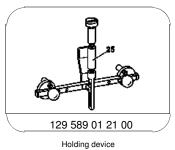
Number	Designation	Model
		211
		except 211.08/09/

BA46.40-P-1001-01E	Self-locking nut, tie rod to steering knuckle	Stage 1	Nm	50
		Stage 2	Δ°	90

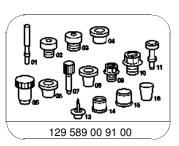




Puller







Set of stop plugs

Repair materials

Number	Designation	Order number
BR00.45-Z-1002-06A	Lubricating paste, rubber parts 2.5 kg, DB supply specification 6867.00	A 000 989 01 60