

Model 217, 222

Modification notes

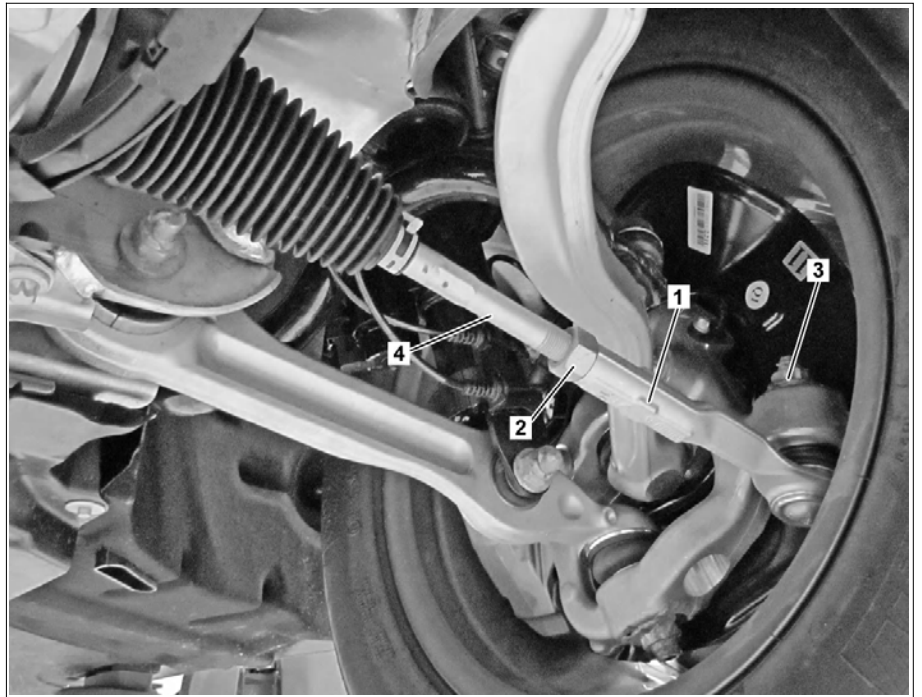
16.02.2017	Total front axle toe at vehicle level	Model 222.0 (except 222.077) except code 487 (Active Body Control (ABC)) except code M005 (4MATIC) except code Z07 (Highest protection), model 222.1 (except 222.177/178/179/187/188) except code 487 (Active Body Control (ABC)) except code M005 (4MATIC) except code Z07 (Highest protection)	BE40.20-P-1001-07X
16.02.2017	Total front axle toe at vehicle level	Model 222.0 (except 222.077) with code 487 (Active Body Control (ABC)), model 222.1 (except 222.177/178/179/187/188) with code 487 (Active Body Control (ABC))	BE40.20-P-1001-07X
16.02.2017	Total front axle toe at vehicle level	Model 222.0 (except 222.077) with code M005 (4MATIC), model 222.1 (except 222.177/178/179/187/188) with code M005 (4MATIC)	BE40.20-P-1001-07X
16.02.2017	Total front axle toe at vehicle level	Model 222.1 (except 222.177/178/179/187/188) with code Z07 (Highest protection)	BE40.20-P-1001-07X
16.02.2017	Total front axle toe at vehicle level	Model 222.178 with code 494 (USA version) except code 487 (Active Body Control (ABC))	BE40.20-P-1001-07X
16.02.2017	Total front axle toe at vehicle level	Model 222.077/177/178/179/187/188 with code 487 (Active Body Control (ABC))	BE40.20-P-1001-07X

055 Holding device



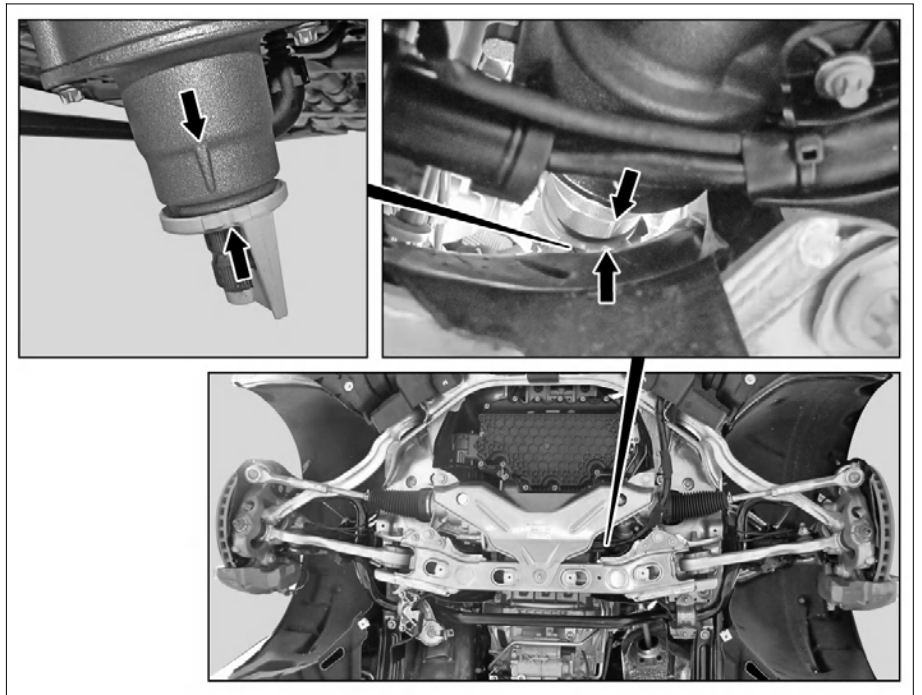
P40.20-2413-02

- 1 Tie rod end
- 2 Jam nut
- 4 Tie rod







P46.40-2093-06

Pfeile Center position



P46.20-2450-06

	Adjust		
1	Deactivate easy entry and exit feature for steering wheel through COMAND Online in Vehicle settings menu	<p>ⓘ Depending on the version, the steering wheel and possibly also the driver's seat move to a different position when, for example, the driver door is opened or closed. Otherwise the driver's seat and the steering wheel could be damaged when the brake pedal jack and holding device (055) are installed.</p> <p>ⓘ Details of the procedure can be found in the vehicle owner's manual.</p>	
2	Move front wheels to straight ahead position		
3	Insert holding device (055) in front of sun visor and fix steering wheel in center position	<p>ⓘ Protect the emblem in the steering wheel against damage. Otherwise the holding device (055) may make an indent on the emblem.</p> <p>☑ Retainer device</p>	*129589012100

	Check		
4	Check center positions (arrows) of steering gear and steering wheel	If the steering gear is not in the center position (arrows). ↓ Move steering wheel by one tooth only.	AR46.20-P-0600-01RK AR46.10-P-0100LF
5	Slacken counternuts (2) on tie rod ends (1)	 It is essential to counterhold the tie rod ends (1). Otherwise the tie rod ends (1) could be damaged.	
6	Adjust toe by rotating tie rods (4)	Model 222 Total front axle toe at vehicle level Model 217 Total front axle toe at vehicle level	*BE40.20-P-1001-07X *BE40.20-P-1001-07EA
7	Tighten lock nuts (2).	 It is essential to counterhold the tie rod ends (1). Otherwise the tie rod ends (1) could be damaged.  Jam nut, tie rod to inner tie rod	*BA46.40-P-1002-01M
8	Remove holding device (055)	 Retainer device	*129589012100
9	Check boots for angular movement and straighten if necessary		
10	Activate easy entry/exit feature for the steering wheel		

Test and adjustment values for front axle toe

Number	Designation		Model 217.382/482 except code 494/487	Model 217.382/482 with code 494 except code 487	
BE40.20-P-1001-07EA	Total front axle toe at vehicle level	-4.73°	Δ°	0° 14' (± 10')	-
		-3.97°	Δ°	-	0° 14' (± 10')
		-2.89°	Δ°	-	-
		-1.39°	Δ°	-	-
		0.20°	Δ°	-	-

Test and adjustment values for front axle toe

Number	Designation		Model 217.382/482 with code 487	Model 217.364/384/385	
BE40.20-P-1001-07EA	Total front axle toe at vehicle level	-4.73°	Δ°	-	-
		-3.97°	Δ°	-	-
		-2.89°	Δ°	-	-
		-1.39°	Δ°	-	0° 14' (± 10')
		0.20°	Δ°	0° 14' (± 10')	-

Test and adjustment values for front axle toe

Number	Designation		AMG model 217.377/379/477/479	AMG model 217.378/478 except code 494	
BE40.20-P-1001-07EA	Total front axle toe at vehicle level	-4.73°	Δ°	-	-
		-3.97°	Δ°	-	-
		-2.89°	Δ°	-	0° 2' (± 10')
		-1.39°	Δ°	-	-
		0.20°	Δ°	0° 14' (± 10')	-

Test and adjustment values for front axle toe

Number	Designation		AMG model 217.378/478 with code 494
BE40.20-P-1001-07EA	Total front axle toe at vehicle level	-4.73°	Δ°
		-3.97°	Δ°
		-2.89°	Δ°

		-1.39°	Δ°	0° 14' (± 10')
		0.20°	Δ°	-

Check values for front axle toe

Number	Designation			Model 222.0 (except 222.077) except code 487 (Active Body Control (ABC)) except code M005 (4MATIC) except code Z07 (Top protection) Model 222.1 (except 222.177/178/179/187/188) except code 487 (Active Body Control (ABC)) except code M005 (4MATIC) except code Z07 (Top protection)	Model 222.0 (except 222.077) with code 487 (Active Body Control (ABC)) Model 222.1 (except 222.177/178/179/187/188) with code 487 (Active Body Control (ABC))
BE40.20-P-1001-07X	Total front axle toe at vehicle level	-4.43°	Δ°	0° 14' (± 10')	-
		-3.35°	Δ°	-	-
		-3.21°	Δ°	0° 14' (± 10')	-
		-2.15°	Δ°	-	-
		-1.98°	Δ°	0° 14' (± 10')	-
		-1.85°	Δ°	-	-
		-0.94°	Δ°	-	-
		-0.64°	Δ°	-	-
		-0.26°	Δ°	-	0° 14' (± 10')
		+0.56°	Δ°	-	-
		+0.95°	Δ°	-	0° 14' (± 10')
		+1.45°	Δ°	-	-
		+2.16°	Δ°	-	0° 14' (± 10')
		+2.68°	Δ°	-	-
		+3.91°	Δ°	-	-
+5.14°	Δ°	-	-		

Check values for front axle toe

Number	Designation			Model 222.0 (except 222.077) with code M005 (4MATIC) Model 222.1 (except 222.177/178/179/187/188) with code M005 (4MATIC)	Model 222.1 (except 222.177/178/179/187/188) with code Z07 (Top protection)
BE40.20-P-1001-07X	Total front axle toe at vehicle level	-4.43°	Δ°	-	-
		-3.35°	Δ°	-	-
		-3.21°	Δ°	-	-
		-2.15°	Δ°	-	-
		-1.98°	Δ°	-	-
		-1.85°	Δ°	0° 14' (± 10')	-
		-0.94°	Δ°	-	-
		-0.64°	Δ°	0° 14' (± 10')	-
		-0.26°	Δ°	-	-
		+0.56°	Δ°	0° 14' (± 10')	-
		+0.95°	Δ°	-	-
		+1.45°	Δ°	-	+0° 9' (± 10')
		+2.16°	Δ°	-	-
		+2.68°	Δ°	-	+0° 9' (± 10')
		+3.91°	Δ°	-	+0° 9' (± 10')
+5.14°	Δ°	-	-		

Check values for front axle toe

Number	Designation			Model 222.9 with code Z19 (Pullman government sedan)	Model 222.9 with code Z31 (Pullman Guard government sedan)
BE40.20-P-1001-07X	Total front axle toe at vehicle level	-4.43°	∠°	-	-
		-3.35°	∠°	-	-
		-3.21°	∠°	-	-
		-2.15°	∠°	-	-
		-1.98°	∠°	-	-
		-1.85°	∠°	-	-
		-0.94°	∠°	-	-
		-0.64°	∠°	-	-
		-0.26°	∠°	-	-
		+0.56°	∠°	-	-
		+0.95°	∠°	-	-
		+1.45°	∠°	+0° 9' (±10')	-
		+2.16°	∠°	-	-
		+2.68°	∠°	+0° 9' (±10')	+0° 9' (±10')
		+3.91°	∠°	+0° 9' (±10')	+0° 9' (±10')
+5.14°	∠°	-	+0° 9' (±10')		

Check values for front axle toe

Number	Designation			Model 222.178 except code 487 (Active Body Control (ABC)) except code 494 (US version)	Model 222.178 with code 494 (US version) except code 487 (Active Body Control (ABC))
BE40.20-P-1001-07X	Total front axle toe at vehicle level	-4.43°	∠°	-	-
		-3.35°	∠°	+0° -6' (±10')	-
		-3.21°	∠°	-	-
		-2.15°	∠°	+0° 2' (±10')	-
		-1.98°	∠°	-	-
		-1.85°	∠°	-	+0° 4' (±10')
		-0.94°	∠°	+0° 11' (±10')	-
		-0.64°	∠°	-	+0° 14' (±10')
		-0.26°	∠°	-	-
		+0.56°	∠°	-	+0° 24' (±10')
		+0.95°	∠°	-	-
		+1.45°	∠°	-	-
		+2.16°	∠°	-	-
		+2.68°	∠°	-	-
		+3.91°	∠°	-	-
+5.14°	∠°	-	-		

Check values for front axle toe

Number	Designation			Model 222.077/177/178/17 9/187/188 with code 487 (Active Body Control (ABC))
BE40.20-P-1001-07X	Total front axle toe at vehicle level	-4.43°	∠°	-
		-3.35°	∠°	-
		-3.21°	∠°	-
		-2.15°	∠°	-
		-1.98°	∠°	-
		-1.85°	∠°	-
		-0.94°	∠°	-
		-0.64°	∠°	-
		-0.26°	∠°	+0° 14' (±10')
		+0.56°	∠°	-

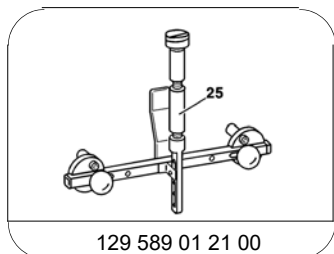
	+0.95°	∠°	+0° 14' (± 10')
	+1.45°	∠°	-
	+2.16°	∠°	+0° 14' (± 10')
	+2.68°	∠°	-
	+3.91°	∠°	-
	+5.14°	∠°	-

Nm Tie rod

Number	Designation		Model 217	Model 222 except code Z07 (Top protection) except code Z19 (Pullman government sedan) except code Z31 (Pullman Guard government sedan)
BA46.40-P-1002-01M	Jam nut, tie rod to inner tie rod	Nm	60	60

Nm Tie rod

Number	Designation		Model 222 with code Z07 (Top protection) Model 222 with code Z19 (Pullman government sedan) Model 222 with code Z31 (Pullman Guard government sedan)
BA46.40-P-1002-01M	Jam nut, tie rod to inner tie rod	Nm	60



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Retainer device