Model 212, 218

Modification notes

01.07.2013	Nachlaufwerte, Formular	B	E40.20-P-1001-20E
01.07.2013	Zulässiger Unterschied Nachlauf zwischen rechter und linker Fahrzeugseite	В	E40.20-P-1002-20E
01.07.2013	absolute Nachlauf-Toleranz	В	E40.20-P-1003-20E

Camber, shown on vehicle except code 489 (AIRMATIC)

Caster, shown on vehicle except code 489 (AIRMATIC)

Strut rod

Washer

Caster

Nut Repair bolt

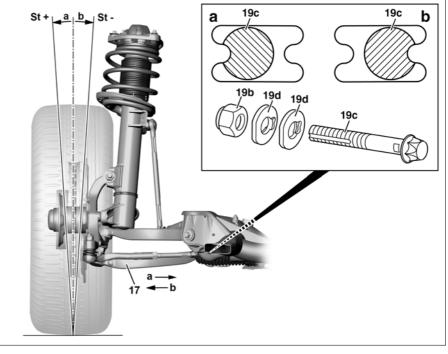
18 19b

19c

19d

NL

17	Cross strut
19b	Nut
19c	Repair bolt
19d	Washer
St+	Positive camber
St-	Negative camber



P40.20-2312-06

19c 19c d С 19b 19d 19d 19c 2000 d NĹ 18 c i d►

P40.20-2434-06

	Check	
1	Perform wheel alignment check	AR40.20-P-0200EW
X	Remove	
© Daimler AG 4/24/18 B/04/18	ar40 20-n-0263ew Adjust camber and caster at the front axle	Page 1 of 10

18, B/04/18, ar40.20-p-0263ew, Adjust camber and caster at the front axle Model 212, 218

2.1	Remove engine compartment panels	Model 212 with engine 156, 157, 271, 272,	
2.1		273, 274, 276, 278	
		Model 218 with engine 157, 274, 276, 278	
2.2	Pomovo bottom postion of coundproofing	Model 212, 218 with engine 642, 651	AR61.20-P-1105EW
2.2	Remove bottom section of soundproofing	Model 212, 218 with engine 642, 651	AR94.30-P-5300EW
	Adjust		
3	Replace threaded connection of cross strut	For camber correction	
	(17) on front axle carrier with repair bolt (19c) with washers (19d) and nuts (19b)		
		i Pay attention to installation position of	
		repair bolt (19c):	
		Positive camber change (a)	
		Negative camber change (b)	
		i Screw on the nut (19b) of the repair bolt (19c) up to the contact surface, but do not	
		tighten yet.	
		Model 218Permissible difference in front axle camber between right and left side of vehicle	*BE40.20-P-1002-13S
		Model 218Camber at vehicle level	*BE40.20-P-1001-13S
		Model 212Camber at vehicle level	*BE40.20-P-1001-13P
		Model 212Permissible difference in front axle	*BE40.20-P-1002-13P
		camber between right and left side of vehicle	
4	Replace threaded connection of strut rod (18) on front axle carrier with repair bolt (19c) with		
	washers (19d) and nuts (19b)	i Pay attention to installation position of	
		repair bolt (19c):	
		Caster increase (c)	
		Caster reduction (d)	
		L Screw on the nut (19b) of the repair bolt (19c) up to the contact surface, but do not	
		tighten yet.	
		Model 212Absolute caster tolerance	*BE40.20-P-1003-20L
		Model 212Permissible difference in caster between right and left side of vehicle	*BE40.20-P-1002-20L
		Model 212Caster values, form	*BE40.20-P-1001-20L
		Model 218Caster values, form	*BE40.20-P-1001-20E
		Model 218Permissible difference in caster between right and left side of vehicle	*BE40.20-P-1002-20E
		Model 218Absolute caster tolerance	*BE40.20-P-1003-20E
5	Lower vehicle onto its wheels and tighten nuts (19b) of repair bolts (19c)		
		The repair bolt (19c) must not be twisted. Counterhold the repair bolt (19c) when	
		tightening the nut (19b).	
		Otherwise the lock tabs in the front axle carried may be damaged.	r
		Mm Model 212Bolt, strut rod to integral	*BA33.20-P-1002-010
		support	
		Model 212Locknut (repair kit), strut rod to	*BA33.20-P-1003-01O
		integral carrier I™ Model 212Bolt, cross strut to integral	*BA33.20-P-1005-01O
		carrier	
		Mm Model 212Locknut (repair kit), cross strut to integral carrier	*BA33.20-P-1006-01O
		Mm Model 218Bolt, strut rod to front axle	*BA33.20-P-1002-01Q
			*BA33 20-P-1002 010
		Model 218Self-locking nut (repair kit), stru	
		Mm Model 218Screw/bolt, cross strut to front	*BA33.20-P-1005-01Q
		axle carrier	
		Model 218Self-locking nut (repair kit), cross strut to front axle carrier	*BA33.20-P-1006-01Q
4	Check		
6	Perform wheel alignment check		AR40.20-P-0200EW
X	Install		
7.1	Install engine compartment paneling.	Model 212 with engine 156, 157, 271, 272, 273, 274, 276, 278	
		273, 274, 276, 278 Model 218 with engine 157, 274, 276, 278	
		· · · · · · · · · · · · · · · · · · ·	AR61.20-P-1105EW
7.2	Install bottom sections of soundproofing	Model 212, 218 with engine 642, 651	
			AR94.30-P-5300EW

Number	Designation			Model 212.0 with code 485, except 4MATIC	Model 212.0 with code 485, with 4MATIC
BE40.20-P-1001-13P	Camber at vehicle level	+5.80°	۲°	-	-
		+4.85°	۲°	-	-
		+4.20°	۲°	-	-
		+4.16°	۲°	-	-
		+4.08°	۲°	-	-
		+2.67°	۲°	-	0° -22' (±21')
		+2.66°	۲°	-	-
		+2.60°	۲°	-	-
		+2.56°	۲°	0° -23' (±21')	-
		+1.49°	۲°	-	-
		+1.18°	۲°	-	-
		+0.27°	۲°	-	-
		+0.25°	۲°	-	-
		+0.12°	۲°	-	-

Test and adjustment values for front axle camber

Number	Designation			Model 212.0 with code 486/677, except 4MATIC	Model 212.0 with code 486/677, with 4MATIC
BE40.20-P-1001-13P	Camber at vehicle level	+5.80°	۲°	-	-
		+4.85°	۲°	-	-
		+4.20°	۲°	-	-
		+4.16°	۲°	-	-
		+4.08°	۲°	-	-
		+2.67°	۲°	-	-
		+2.66°	۲°	-	-
		+2.60°	۲°	-	-
		+2.56°	۲°	-	-
		+1.49°	۲°	-	-
		+1.18°	۲°	-	-
		+0.27°	۲°	-	-
		+0.25°	۲°	-	0° -30' (±21')
1		+0.12°	۲°	0° -33' (±21')	-

Test and adjustment values for front axle camber

Number	Designation			Model 212.002 with code P25	Model 212.0/2 with code 482
3E40.20-P-1001-13P	Camber at vehicle level	+5.80°	۲°	-	-
		+4.85°	۲°	-	0° -12' (±21')
		+4.20°	۲°	-	-
		+4.16°	۲°	-	-
		+4.08°	۲°	-	-
		+2.67°	۲°	-	-
		+2.66°	۲°	-	-
		+2.60°	۲°	-	-
		+2.56°	۲°	-	-
		+1.49°	۲°	0° -27' (±21')	-
		+1.18°	۲°	-	-
		+0.27°	۲°	-	-
		+0.25°	۲°	-	-
		+0.12°	۲°	-	-

Number Designation	Model 212.0/2 with code 489, except 4MATIC	Model 212.0/2 with code 489, with 4MATIC
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BE40.20-P-1001-13P	Camber at vehicle level	+5.80°	۲°	-	-
		+4.85°	۲°	-	-
		+4.20°	۲°	-	-
		+4.16°	۲°	-	-
		+4.08°	۲°	-	-
		+2.67°	۲°	-	-
		+2.66°	۲°	-	-
		+2.60°	۲°	-	-
		+2.56°	۲°	-	-
		+1.49°	۲°	-	-
		+1.18°	۲°	-	-
		+0.27°	۲°	0° -33' (±21')	-
		+0.25°	۲°	-	0° -30' (±21')
		+0.12°	۲°	-	-

Number	Designation			Model 212.1 with code 482	Model 212.1 with code 485
BE40.20-P-1001-13P	Camber at vehicle level	+5.80°	۲°	-	-
		+4.85°	۲°	-	-
		+4.20°	۲°	-	-
		+4.16°	۲°	-	-
		+4.08°	۲°	0° -15' (±21')	-
		+2.67°	۲°	-	-
		+2.66°	۲°	-	-
		+2.60°	۲°	-	-
		+2.56°	۲°	-	0° -23' (±21')
		+1.49°	۲°	-	-
		+1.18°	۲°	-	-
		+0.27°	۲°	-	-
		+0.25°	۲°	-	-
		+0.12°	۲°	-	-

Test and adjustment values for front axle camber

Number	Designation			Model 212.2 with code 485, except 4MATIC	Model 212.2 with code 485, with 4MATIC
BE40.20-P-1001-13P	Camber at vehicle level	+5.80°	۲°	-	-
		+4.85°	۲°	-	-
		+4.20°	۲°	-	-
		+4.16°	۲°	-	-
		+4.08°	۲°	-	-
		+2.67°	۲°	-	-
		+2.66°	۲°	-	0° -33' (±21')
		+2.60°	۲°	-	-
		+2.56°	۲°	0° -23' (±21')	-
		+1.49°	۲°	-	-
		+1.18°	۲°	-	-
		+0.27°	۲°	-	-
		+0.25°	۲°	-	-
		+0.12°	۲°	-	-

Test and adjustment values for front axle camber

Number	Designation			Model 212.2 with code 486/677, except 4MATIC	Model 212.2 with code 486/677, with 4MATIC
BE40.20-P-1001-13P	Camber at vehicle level	+5.80°	۲°	-	-
		+4.85°	۲°	-	-
		+4.20°	۲°	-	-
		+4.16°	۲°	-	-
		+4.08°	۲°	-	-
		+2.67°	۲°	-	-

 \circledcirc Daimler AG, 4/24/18, B/04/18, ar40.20-p-0263ew, Adjust camber and caster at the front axle Model 212, 218

+2.66°	۲°	-	-
+2.60°	۲°	-	-
+2.56°	۲°	-	-
+1.49°	۲°	-	-
+1.18°	۲°	-	-
+0.27°	۲°	-	-
+0.25°	۲°	-	0° -30' (±21')
+0.12°	۲°	0° -33' (±21')	-

Number	Designation			MODEL 212.025/056/072 with CODEZ04	Model 212 AMG up to 11.2011, except 4MATIC
BE40.20-P-1001-13P	Camber at vehicle level	+5.80°	۲°	-	-
		+4.85°	۲°	-	-
		+4.20°	۲°	-	-
		+4.16°	۲°	-	-
		+4.08°	۲°	-	-
		+2.67°	۲°	-	-1,32' (±21')
		+2.66°	۲°	-	-
		+2.60°	۲°	-	-
		+2.56°	۲°	-	-
		+1.49°	۲°	-	-
		+1.18°	۲°	-	-
		+0.27°	۲°	0° -33' (±21')	-
		+0.25°	۲°	-	-
		+0.12°	۲°	-	-

Test and adjustment values for front axle camber

Number	Designation			Model 212 AMG as of 12.2011, except 4MATIC	Model 212 AMG with 4MATIC
3E40.20-P-1001-13P	Camber at vehicle level	+5.80°	۲°	-	-
		+4.85°	۲°	-	-
		+4.20°	۲°	-	-1,47' (±21')
		+4.16°	۲°	-	-
		+4.08°	۲°	-	-
		+2.67°	۲°	-1,32' (±21')	-
		+2.66°	۲°	-	-
		+2.60°	۲°	-	-
		+2.56°	۲°	-	-
		+1.49°	۲°	-	-
		+1.18°	۲°	-	-
		+0.27°	۲°	-	-
		+0.25°	۲°	-	-
		+0.12°	۲°	-	-

Number	Designation			MODEL 218.3 except 4MATIC, except CODE 489	MODEL 218.9 except 4MATIC, except CODE 489
BE40.20-P-1001-13S	Camber at vehicle level	-1.16°	۲°	-	-
		-0.49°	۲°	_	-
		+0.18°	۲°	_	_
		+0.85°	۲°	_	-
		+1.08°	۲°	–0° 56' (±21')	-0° 56' (±21')
		+1.18°	۲°	_	_
		+1.52°	۲°	_	-
		+2.19°	۲°	_	_
		+2.59°	۲°	–0° 48' (±21')	-0° 48' (±21')
		+2.60°	٤°	-	-
		+2.67°	۲°	_	_

+4.09°	۲°	–0° 38' (±21')	–0° 38' (±21')
+4.16°	۲°	-	-
+4.20°	۲°	-	-
+5.80°	۲°	-	-

Number	Designation			MODEL 218 except 4MATIC, with CODE 489	MODEL 218.3 with 4MATIC, except CODE 489
BE40.20-P-1001-13S	Camber at vehicle level	–1.16°	۲°	-	–0° 53' (±21')
		-0.49°	۲°	-	-
		+0.18°	۲°	_	–0° 50' (±21')
		+0.85°	۲°	_	_
		+1.08°	۲°	–0° 56' (±21')	-
		+1.18°	۲°	-	-
		+1.52°	۲°	-	–0° 45' (±21')
		+2.19°	۲°	-	-
		+2.59°	۲°	–0° 48' (±21')	-
		+2.60°	۲°	-	-
		+2.67°	۲°	_	_
		+4.09°	۲°	–0° 38' (±21')	-
		+4.16°	۲°	-	-
		+4.20°	۲°	-	-
		+5.80°	۲°	-	-

Test and adjustment values for front axle camber

Number	Designation			MODEL 218.9 with 4MATIC, except CODE 489	MODEL 218 with 4MATIC, with CODE 489
BE40.20-P-1001-13S	Camber at vehicle level	–1.16°	۲°	-	_
		-0.49°	۲°	–0° 51' (±21')	–0° 51' (±21')
		+0.18°	۲°	-	-
		+0.85°	۲°	–0° 48' (±21')	–0° 48' (±21')
		+1.08°	۲°	_	_
		+1.18°	۲°	-	-
		+1.52°	۲°	-	-
		+2.19°	۲°	–0° 43' (±21')	–0° 43' (±21')
		+2.59°	۲°	-	-
		+2.60°	۲°	-	-
		+2.67°	۲°	-	_
		+4.09°	۲°	_	-
		+4.16°	۲°	-	-
		+4.20°	۲°	-	-
		+5.80°	۲°	-	_

Number	Designation			MODEL 218.3 AMG up to 11.2011	MODEL 218.3 AMG as of 12.2011 except 4MATIC
BE40.20-P-1001-13S	Camber at vehicle level	-1.16°	۲°	-	-
		-0.49°	۲°	-	-
		+0.18°	۲°	_	_
		+0.85°	۲°	-	-
		+1.08°	۲°	-	-
		+1.18°	۲°	–1° 39' (±21')	–1° 39' (±21')
		+1.52°	۲°	-	-
		+2.19°	۲°	-	-
		+2.59°	۲°	-	_
		+2.60°	۲°	_	_
		+2.67°	۲°	–1° 32' (±21')	–1° 32' (±21')
		+4.09°	۲°	-	-
		+4.16°	۲°	–1° 23' (±21')	–1° 23' (±21')

+4.20°	٨°	_	_
+5.80°	ڴ	-	_

Number	Designation			MODEL 218.9 AMG except 4MATIC	MODEL 218.3/9 AMG with 4MATIC
BE40.20-P-1001-13S	Camber at vehicle level	–1.16°	۲°	-	-
		-0.49°	۲°	-	–1° 33' (±21')
		+0.18°	۲°	-	-
		+0.85°	۲°	-	-
		+1.08°	۲°	-	-
		+1.18°	۲°	-1° 39' (±21')	-
		+1.52°	۲°	-	-
		+2.19°	۲°	-	-
		+2.59°	۲°	-	-
		+2.60°	۲°	-	–1° 53' (±21')
		+2.67°	۲°	-1° 32' (±21')	-
		+4.09°	۲°	-	-
		+4.16°	۲°	-1° 23' (±21')	-
		+4.20°	۲°	-	–1° 47' (±21')
		+5.80°	۲°	-	-1° 39' (±21')

Test and adjustment values for caster

Number	Designation	Model 218
BE40.20-P-1001-20E	Caster values, form	
	See	OF40.20-P-3000-00 EF

Test and adjustment values for caster

Number	Designation	Model 212
BE40.20-P-1001-20L	Caster values, form	
	See	OF40.20-P-3000-00
		EW

Test and adjustment values for front axle camber

Number	Designation		Model 212.0 with code 485, with 4MATIC
BE40.20-P-1002-13P	Permissible difference in front axle camber between right and left side \measuredangle° of vehicle	±0° 24'	±0° 24'

Test and adjustment values for front axle camber

Number		code 486/677,	Model 212.0 with code 486/677, with 4MATIC
BE40.20-P-1002-13P	Permissible difference in front axle camber between right and left side \measuredangle° of vehicle	±0° 24'	±0° 24'

Test and adjustment values for front axle camber

Number		Model 212.002 with code P25	Model 212.0/2 with code 482
	Permissible difference in front axle camber between right and left side \measuredangle° of vehicle	±0° 24'	±0° 24'

Number	Designation	Model 212.0/2 with code 489, except 4MATIC	Model 212.0/2 with code 489, with 4MATIC
BE40.20-P-1002-13P	Permissible difference in front axle camber between right and left side \measuredangle° of vehicle	±0° 24'	±0° 24'

Number	Designation		Model 212.1 with code 485
BE40.20-P-1002-13P	Permissible difference in front axle camber between right and left side \measuredangle° of vehicle	±0° 24'	±0° 24'

Test and adjustment values for front axle camber

Number	Designation	Model 212.2 with	Model 212.2 with
		code 485, except 4MATIC	code 485, with 4MATIC
BE40.20-P-1002-13P	Permissible difference in front axle camber between right and left side \measuredangle° of vehicle	±0° 24'	±0° 24'

Test and adjustment values for front axle camber

Number	Designation		Model 212.2 with code 486/677, with 4MATIC
	Permissible difference in front axle camber between right and left side \measuredangle° of vehicle	±0° 24'	±0° 24'

Test and adjustment values for front axle camber

Number			Model 212 AMG up to 11.2011, except 4MATIC
BE40.20-P-1002-13P	Permissible difference in front axle camber between right and left side \measuredangle° of vehicle	±0° 24'	±0° 24'

Test and adjustment values for front axle camber

Number		Model 212 AMG as of 12.2011, except 4MATIC	
BE40.20-P-1002-13P	Permissible difference in front axle camber between right and left side \measuredangle° of vehicle	±0° 24'	±0° 24'

Test and adjustment values for front axle camber

Number	Designation	except 4MATIC,	MODEL 218.9 except 4MATIC, except CODE 489
BE40.20-P-1002-13S	Permissible difference in front axle camber between right and left side \measuredangle° of vehicle	±0° 24'	±0° 24'

Test and adjustment values for front axle camber

Number	Designation	MODEL 218 except 4MATIC, with CODE 489	
	Permissible difference in front axle camber between right and left side \measuredangle° of vehicle	±0° 24'	±0° 24'

Number	Designation		MODEL 218 with 4MATIC, with CODE 489
BE40.20-P-1002-13S	Permissible difference in front axle camber between right and left side \measuredangle° of vehicle	±0° 24'	±0° 24'

Number			MODEL 218.3 AMG as of 12.2011 except 4MATIC
	Permissible difference in front axle camber between right and left side \measuredangle° of vehicle	±0° 24'	±0° 24'

Test and adjustment values for front axle camber

Number	Designation	MODEL 218.9 AMG except 4MATIC	MODEL 218.3/9 AMG with 4MATIC
BE40.20-P-1002-13S	Permissible difference in front axle camber between right and left side \measuredangle° of vehicle	±0° 24'	±0° 24'

Test and adjustment values for caster

Number	Designation	Model 218
BE40.20-P-1002-20E	Permissible difference in caster between right and left side of vehicle \measuredangle°	±30'

Test and adjustment values for caster

Number	Designation	Model 212
BE40.20-P-1002-20L	Permissible difference in caster between right and left side of vehicle \measuredangle°	±0° 30'

Test and adjustment values for caster

Number	Designation		Model 218
BE40.20-P-1003-20E	Absolute caster tolerance	۲°	±30'

Test and adjustment values for caster

Number	Designation	Model 212
BE40.20-P-1003-20L	Absolute caster tolerance \measuredangle°	±0° 30'

Nm Wheel control, hub

Number	Designation			Model 212 except 4MATIC	MODEL 212 with 4MATIC
BA33.20-P-1002-01O	Bolt, strut rod to integral support	Stage 1	Nm	120	120
		Stage 2	۲°	180	180

Nm Wheel control, hub

Number				MODEL 218 except 4MATIC	MODEL 218 with 4MATIC
BA33.20-P-1002-01Q	Bolt, strut rod to front axle carrier	Stage 1	Nm	120	120
		Stage 2	۲°	180	180

Nm Wheel control, hub

Number	Designation			Model 212 except 4MATIC	MODEL 212 with 4MATIC
BA33.20-P-1003-01O	Locknut (repair kit), strut M14 \times 1.5 \times 11.9 rod to integral carrier	Stage 1	Nm	100	100
		Stage 2	۲°	180	180

Nm Wheel control, hub

Number	Designation				MODEL 218 except 4MATIC	MODEL 218 with 4MATIC
	Self-locking nut (repair kit), strut rod to front axle carrier	Stage 1	M14×120×11.9	Nm	100	100
		Stage 2		४°	180	180

Nm Wheel control, hub

Number	•			Model 212 except 4MATIC	MODEL 212 with 4MATIC
BA33.20-P-1005-01O	Bolt, cross strut to integral carrier	Stage 1	Nm	120	120
		Stage 2	۲°	180	180

Nm Wheel control, hub

Number	0			MODEL 218 except 4MATIC	MODEL 218 with 4MATIC
BA33.20-P-1005-01Q	Screw/bolt, cross strut to front axle carrier	Stage 1	Nm	120	120
		Stage 2	∡°	180	180

Nm Wheel control, hub

Number	Designation			Model 212 except 4MATIC	MODEL 212 with 4MATIC
	Locknut (repair kit), cross M14 \times 120 \times 11.9 strut to integral carrier	Stage 1	Nm	100	100
		Stage 2	४°	180	180

Nm Wheel control, hub

Number	Designation				MODEL 218 except 4MATIC	MODEL 218 with 4MATIC
BA33.20-P-1006-01Q	Self-locking nut (repair kit), cross strut to front axle carrier	Stage 1	M14×120×11.9	Nm	100	100
		Stage 2		४°	180	180