



Document title Check toe-out angle

Document number ar4020p0325cw

Model 166, 172, 204, 207, 212, 218, 292

Modification notes

12.12.2012	Spurdifferenzwinkel bei 20° Einschlag des kurveninneren Rades		BE40.20-P-1001-08N
02.11.2015	Toe-out angle with inner wheel steered through 20°		BE40.20-P-1001-08P

	Check		
1	Check toe at front axle and adjust if necessary	Model 166, 292 Model 172, 207, 212, 218 Model 204	AR40.20-P-0200GQ AR40.20-P-0200EW AR40.20-P-0200CW
2	Check toe-out angle	 The steering geometry is checked by measuring the toe-out angle. This is the difference in the steer angle between the outside wheel and the inside wheel when the inside wheel is steered through 20°. If substantial deviations are found, the cause may be one of the following, assuming that the camber and caster settings are correct: Track not adjusted with rack-and-pinion steering in straightahead position, resulting in unequal tie rod lengths; steering knuckle or tie rod bent. On vehicles involved in an accident: Excessive deviations in the front end (longitudinal frame member, frame crossmember, wheel well and firewall, or on front axle carrier) which have a negative effect on the adjustment range for camber and caster can result in greater differences in the toe-out on turns between left and right.	

Model 212.0 (except
 212.002/025/056/067/072/074/075/076/077/08/0
 90/091/092/093/094/097)
 with code 485 (DIRECT CONTROL suspension)
 Model 212.0 (except
 212.002/025/056/067/072/074/075/076/077/08/0
 90/091/092/093/094/097)
 with code 489 (AIRMATIC)
 Model 212.0 (except
 212.002/025/056/067/072/074/075/076/077/08/0
 90/091/092/093/094/097)
 with code 677 (AGILITY CONTROL suspension)
 Model 212.0 (except
 212.002/025/056/072/074/075/076/077/092)
 with code 482 (Off-road comfort suspension)
 Model 212.002
 with code 482 (Off-road comfort suspension)
 except code P25 (BlueEFFICIENCY Edition)
 Model 212.002
 with code 485 (DIRECT CONTROL suspension)
 except code P25 (BlueEFFICIENCY Edition)
 Model 212.002
 with code 489 (AIRMATIC)
 except code P25 (BlueEFFICIENCY Edition)
 Model 212.002
 with code 677 (AGILITY CONTROL suspension)
 except code P25 (BlueEFFICIENCY Edition)
 Model 212.002
 with code P25 (BlueEFFICIENCY Edition)
 Model 212.025/056/072
 with code 482 (Off-road comfort suspension)
 except code Z04 (Light armoring)
 Model 212.025/056/072
 with code 485 (DIRECT CONTROL suspension)
 except code Z04 (Light armoring)
 Model 212.025/056/072
 with code 489 (AIRMATIC)
 except code Z04 (Light armoring)
 Model 212.025/056/072
 with code 677 (AGILITY CONTROL suspension)
 except code Z04 (Light armoring)
 Model 212.025/056/072
 with code Z04 (Light armoring)
 Model
 212.067/08/090/091/093/094/097/267/28/291/29
 3/294/297
 with code 489 (AIRMATIC)
 Model 212.067/08/090/091/093/094/097
 with code 485 (DIRECT CONTROL suspension)
 Model 212.067/08/090/091/093/094/097
 with code 677 (AGILITY CONTROL suspension)
 Model 212.074/077/274/277 as of 12/1/11,
 212.075/275
 Model 212.074/077/274/277 up to 11/30/11
 Model 212.076/092/276/292
 Model 212.1
 with code 482 (Off-road comfort suspension)
 Model 212.1
 with code 485 (DIRECT CONTROL suspension)
 Model 212.2 (except
 212.267/274/275/276/277/28/291/292/293/294/2
 97)
 with code 482 (Off-road comfort suspension)
 Model 212.2 (except
 212.267/274/275/276/277/28/291/292/293/294/2
 97)
 with code 485 (DIRECT CONTROL suspension)
 Model 212.2 (except
 212.267/274/275/276/277/28/291/292/293/294/2
 97)
 with code 489 (AIRMATIC)
 Model 212.2 (except
 212.267/274/275/276/277/28/291/292/293/294/2
 97)
 with code 677 (AGILITY CONTROL suspension)
 Model 212.267/28/291/293/294/297
 with code 485 (DIRECT CONTROL suspension)
 Model 212.267/28/291/293/294/297
 with code 677 (AGILITY CONTROL
 suspension) Toe-out angle with inner wheel
 steered through 20°

Model 204.0 (except 204.077), 204.2 (except 204.277)
with code 482 (Off-road comfort suspension)
as of model refinement
Model 204.0 (except 204.077), 204.2 (except 204.277)
with code 482 (Off-road comfort suspension)
up to model refinement, with cross strut old version
Model 204.0 (except 204.077), 204.2 (except 204.277)
with code 482 (Off-road comfort suspension)
up to model refinement, with cross strut new version
Model 204.0 (except 204.077/08/09), 204.2 (except 204.277/28/29)
with code 483 (ADVANCED AGILITY package)
as of model refinement
Model 204.0 (except 204.077/08/09), 204.2 (except 204.277/28/29)
with code 483 (ADVANCED AGILITY package)
up to model refinement, with cross strut old version
Model 204.0 (except 204.077/08/09), 204.2 (except 204.277/28/29)
with code 483 (ADVANCED AGILITY package)
up to model refinement, with cross strut new version
Model 204.0 (except 204.077/08/09), 204.2 (except 204.277/28/29)
with code 485 (Comfort suspension)
as of model refinement
Model 204.0 (except 204.077/08/09), 204.2 (except 204.277/28/29)
with code 485 (Comfort suspension)
up to model refinement, with cross strut old version
Model 204.0 (except 204.077/08/09), 204.2 (except 204.277/28/29)
with code 485 (Comfort suspension)
up to model refinement, with cross strut new version
Model 204.0 (except 204.077/08/09), 204.2 (except 204.277/28/29)
with code 486 (Sports suspension)
as of model refinement
Model 204.0 (except 204.077/08/09), 204.2 (except 204.277/28/29)
with code 486 (Sports suspension)
up to model refinement, with cross strut old version
Model 204.0 (except 204.077/08/09), 204.2 (except 204.277/28/29)
with code 486 (Sports suspension)
up to model refinement, with cross strut new version
Model 204.0 (except 204.077/08/09), 204.2 (except 204.277/28/29)
with code 677 (AGILITY CONTROL suspension)
as of model refinement
Model 204.0 (except 204.077/08/09), 204.2 (except 204.277/28/29)
with code 677 (AGILITY CONTROL suspension)
up to model refinement, with cross strut old version
Model 204.0 (except 204.077/08/09), 204.2 (except 204.277/28/29)
with code 677 (AGILITY CONTROL suspension)
up to model refinement, with cross strut new version
Model 204.077/277
as of model refinement
Model 204.077/277
up to model refinement
Model 204.08/09/28/29/38
with code 486 (Sports suspension)
Model 204.08/09/28/29/38
with code 677 (AGILITY CONTROL suspension)
Model 204.3 (except 204.377/38)
with code 483 (ADVANCED AGILITY package)
except code P84 (Sports model)
Model 204.3 (except 204.377/38)
with code 486 (Sports suspension)
except code P84 (Sports model)
Model 204.3 (except 204.377/38)
with code 677 (AGILITY CONTROL suspension)
Model 204.377
except code P98 (Black Series)
Model 204.377
with code 224 (Rear individual seat design)

		Model 172 Toe-out angle with inner wheel steered through 20° Model 166.0 (except 166.064/074/075) except code 489 (AIRMATIC) except code 491 (US version) except code Z04 (Light armoring) except code Z05 (B5 armoring on special protection version) Model 166.0 (except 166.064/074/075) with code 489 (AIRMATIC) Model 166.0 (except 166.064/074/075) with code 491 (US version) Model 166.0 (except 166.064/074/075) with code Z04 (Light armoring) Model 166.0 (except 166.064/074/075) with code Z05 (B5 armoring on special protection version) Model 166.064/074/075/874/875 Model 166.8 (except 166.874/875) Model 292 except code 489 (AIRMATIC) Model 292 with code 489 (AIRMATIC) Toe-out angle with inner wheel steered through 20°	*BE40.20-P-1001-08P *BE40.20-P-1001-08N
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Check values for toe-out angle

Number	Designation		Model 204.0/2 up to model refinement package, with cross strut (old version), with code 482	Model 204.0/2 up to model refinement package, with cross strut (new version), with code 482
BE40.20-P-1001-08K	Toe-out angle with inner wheel steered through 20°	∠°	-1° 42' (±30')	-1° 42' (±30')

Check values for toe-out angle

Number	Designation		Model 204.0/2 up to model refinement package, with cross strut (old version), with code 483/486, except 4MATIC	Model 204.0/2 up to model refinement package, with cross strut (new version), with code 483/486, except 4MATIC
BE40.20-P-1001-08K	Toe-out angle with inner wheel steered through 20°	∠°	-1° 42' (±30')	-1° 42' (±30')

Check values for toe-out angle

Number	Designation		Model 204.0/2 up to model refinement package, with cross strut (old version), with code 485/677, except 4MATIC	Model 204.0/2 up to model refinement package, with cross strut (new version), with code 485/677, except 4MATIC
BE40.20-P-1001-08K	Toe-out angle with inner wheel steered through 20°	∠°	-1° 42' (±30')	-1° 42' (±30')

Check values for toe-out angle

Number	Designation		Model 204.0/2 as of model refinement package, with code 482	Model 204.0/2 as of model refinement package, with code 483/486, except 4MATIC
BE40.20-P-1001-08K	Toe-out angle with inner wheel steered through 20°	∠°	-1° 42' (±30')	-1° 42' (±30')

Check values for toe-out angle

Number	Designation		Model 204.0/2 as of model refinement package, with code 485, except 4MATIC	Model 204.0/2 as of model refinement package, with code 677, except 4MATIC
BE40.20-P-1001-08K	Toe-out angle with inner wheel steered through 20°	∠°	-1° 42' (±30')	-1° 42' (±30')

Check values for toe-out angle

Number	Designation		Model 204.3 with code 483/486, except code P84, except 4MATIC	Model 204.3 with code 677, except 4MATIC
BE40.20-P-1001-08K	Toe-out angle with inner wheel steered through 20°	∠°	-1° 42' (±30')	-1° 42' (±30')

Check values for toe-out angle

Number	Designation		Model 204.3 with code P84	Model 204.0/2/3 with 4MATIC, with code 486
BE40.20-P-1001-08K	Toe-out angle with inner wheel steered through 20°	∠°	-1° 30' (±30')	-1° 42' (±30')

Check values for toe-out angle

Number	Designation		Model 204.0/2/3 with 4MATIC, with code 677	Model 204.9 with code 485, except code 460/494/830
BE40.20-P-1001-08K	Toe-out angle with inner wheel steered through 20°	∠°	-1° 42' (±30')	-1° 37' (±30')

Check values for toe-out angle

Number	Designation		Model 204.9 as of model refinement package, with code 491, except code 460/494/830	Model 204.9 with code 482
BE40.20-P-1001-08K	Toe-out angle with inner wheel steered through 20°	∠°	-1° 30' (±30')	-1° 30' (±30')

Check values for toe-out angle

Number	Designation		Model 204.9 with code 486	Model 204.9 with code 460/494/830
BE40.20-P-1001-08K	Toe-out angle with inner wheel steered through 20°	∠°	-1° 37' (±30')	-1° 30' (±30')

Check values for toe-out angle

Number	Designation		Model 204.0/2 AMG up to model refinement package	Model 204.0/2 AMG as of model refinement package, model 204.3 AMG except code P98
BE40.20-P-1001-08K	Toe-out angle with inner wheel steered through 20°	∠°	-1° 30' (±30')	-1° 18' (±30')

Check values for toe-out angle

Number	Designation		Model 204.3 AMG with code P98 except code 224	Model 204.3 AMG with code P98+code 224
BE40.20-P-1001-08K	Toe-out angle with inner wheel steered through 20°	∠°	-1° 18' (±30')	-1° 18' (±30')

Check values for toe-out angle

Number	Designation		Model 207	218 with AMG
BE40.20-P-1001-08K	Toe-out angle with inner wheel steered through 20°	∠°	-1° 42' (±30')	-2° 0' (±30')

Check values for toe-out angle

Number	Designation		218 except AMG
BE40.20-P-1001-08K	Toe-out angle with inner wheel steered through 20°	∠°	-1° 54' (±30')

Check values for toe-out angle

Number	Designation		Model 166.0 except code 489/491/Z04/Z05	Model 166.0 with code 489, model 166.8
BE40.20-P-1001-08N	Toe-out angle with inner wheel steered through 20°	∠°	-1° 30' (± 30')	-1° 54' (± 30')

Check values for toe-out angle

Number	Designation		Model 166.0 with code 491	Model 166.0 with code Z04/Z05
BE40.20-P-1001-08N	Toe-out angle with inner wheel steered through 20°	∠°	-1° 36' (± 30')	-1° 54' (± 30')

Check values for toe-out angle

Number	Designation		Model 166 AMG	Model 292 except code 489
BE40.20-P-1001-08N	Toe-out angle with inner wheel steered through 20°	∠°	-1° 54' (± 30')	-1° 46' (± 30')

Check values for toe-out angle

Number	Designation		Model 292 with code 489	Model 292 AMG
BE40.20-P-1001-08N	Toe-out angle with inner wheel steered through 20°	∠°	-1° 54' (± 30')	-1° 54' (± 30')

Test and adjustment values for toe-out angle

Number	Designation		Model 172.403/447/448/457 up to model year 2015 except code 483/486	Model 172.403/447/448/457 up to model year 2015 with code 483/486
BE40.20-P-1001-08P	Toe-out angle with inner wheel steered through 20°	∠°	-1° 52' (± 30')	-1° 53' (± 30')

Test and adjustment values for toe-out angle

Number	Designation		Model 172.403/447/448/457 as of model year 2016 except code 483/486, model 172.404/431/434/438 except code 483/486	Model 172.403/447/448/457 as of model year 2016 with code 483/486, model 172.404/431/434/438 with code 483/486
BE40.20-P-1001-08P	Toe-out angle with inner wheel steered through 20°	∠°	-1° 52' (± 30')	-1° 53' (± 30')

Test and adjustment values for toe-out angle

Number	Designation		Model 172.466 AMG	Model 172.475 AMG
BE40.20-P-1001-08P	Toe-out angle with inner wheel steered through 20°	∠°	-1° 21' (± 30')	-1° 42' (± 30')

Check values for toe-out angle

Number	Designation		Model 212.0 with code 485, except 4MATIC	Model 212.0 with code 485, with 4MATIC
BE40.20-P-1001-08S	Toe-out angle with inner wheel steered through 20°	∠°	-1° 54' (± 30')	-1° 54' (± 30')

Check values for toe-out angle

Number	Designation		Model 212.0 with code 486/677, except 4MATIC	Model 212.0 with code 486/677, with 4MATIC
BE40.20-P-1001-08S	Toe-out angle with inner wheel steered through 20°	∠°	-1° 54' (± 30')	-1° 54' (± 30')

Check values for toe-out angle

Number	Designation		Model 212.002 with code P25	Model 212.0/2 with code 482
BE40.20-P-1001-08S	Toe-out angle with inner wheel steered through 20°	∠°	-1° 54' (± 30')	-1° 54' (± 30')

Check values for toe-out angle

Number	Designation		Model 212.0/2 with code 489, except 4MATIC	Model 212.0/2 with code 489, with 4MATIC
BE40.20-P-1001-08S	Toe-out angle with inner wheel steered through 20°	∠°	-1° 54' (± 30')	-1° 54' (± 30')

Check values for toe-out angle

Number	Designation		Model 212.1 with code 482	Model 212.1 with code 485
BE40.20-P-1001-08S	Toe-out angle with inner wheel steered through 20°	∠°	-1° 48' (± 30')	-1° 48' (± 30')

Check values for toe-out angle

Number	Designation		Model 212.2 with code 485, except 4MATIC	Model 212.2 with code 485, with 4MATIC
BE40.20-P-1001-08S	Toe-out angle with inner wheel steered through 20°	∠°	-1° 48' (± 30')	-1° 54' (± 30')

Check values for toe-out angle

Number	Designation		Model 212.2 with code 486/677, except 4MATIC	Model 212.2 with code 486/677, with 4MATIC
BE40.20-P-1001-08S	Toe-out angle with inner wheel steered through 20°	∠°	-1° 54' (± 30')	-1° 54' (± 30')

Check values for toe-out angle

Number	Designation		MODEL 212.025/056/072 with CODEZ04	Model 212 AMG up to 11.2011, except 4MATIC
BE40.20-P-1001-08S	Toe-out angle with inner wheel steered through 20°	∠°	-1° 54' (± 30')	-1° 38' (± 30')

Check values for toe-out angle

Number	Designation		Model 212 AMG as of 12.2011, except 4MATIC	Model 212 AMG with 4MATIC
BE40.20-P-1001-08S	Toe-out angle with inner wheel steered through 20°	∠°	-1° 38' (± 30')	-1° 39' (± 30')