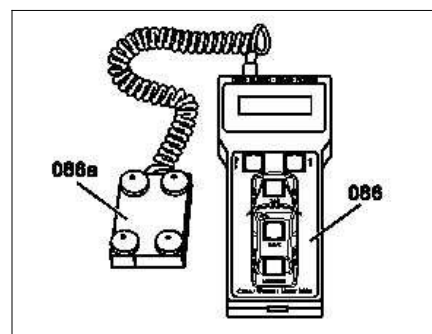


**Document title** Check vehicle level at front and rear axle with electronic inclinometer, adjust if necessary

**Document number** ar4020p0301ew

Model 212, 218

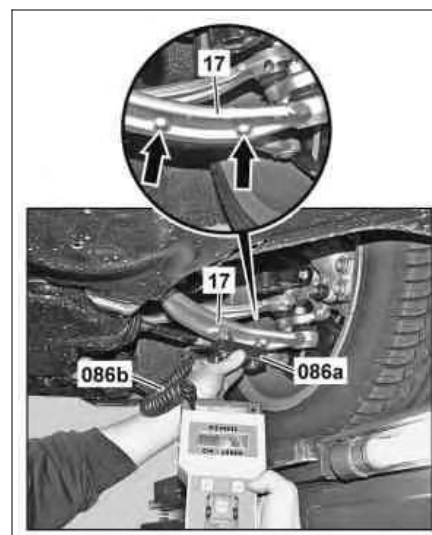
086 Inclinometer  
086a Measuring sensor



P40.20-0318-01

Illustration shows measuring point 2 at right front cross strut, model 204.0 without 4MATIC

086a Measuring sensor  
086b Measuring sensor connecting cable  
17 Cross strut



P40.20-2273-02

Illustration shows measuring point 4 at right rear axle shaft, model 204.0 without 4MATIC

086a Measuring sensor  
086b Measuring sensor connecting cable  
65 Rear axle shaft



P40.20-2274-01

◀	Check		
1	Carry out preconditions and tests for vehicle level measurement		AR40.00-P-0202A
2	Clean measuring points	<p><b>i</b> This prevents any measuring errors.</p>	
3	Mount measuring sensor (086a) on cross strut (17) and read off vehicle level on inclinometer (086)	<p><b>i</b> The connecting cable (086b) from the measuring sensor (086a) must point to the vehicle center otherwise an erroneous measurement takes place.</p> <p><b>i</b> Mount the measuring sensor (086a) between the cast-in humps (arrows). If there are no humps present (arrows), mount measuring sensor (086a) in the center on the cross strut (17).</p> <p><b>i</b> Measure the vehicle level at - measuring point 1 (left front) and - measuring point 2 (right front) and save the measured values.</p>	

		Model 212Vehicle level - front axle MODEL 218Vehicle level - front axle	*BE40.20-P-1001-02ZA *BE40.20-P-1001-02V
4	Mount the measuring sensor (086a) on rear axle shaft (65) and read off vehicle level on the inclinometer (086)	<p><b>i</b> The connecting cable (086b) from the measuring sensor (086a) must point to the vehicle center otherwise an erroneous measurement takes place.</p> <p><b>i</b> Measure the vehicle level at - measuring point 3 (left rear) and - measuring point 4 (right rear) and save the measured values.</p>	
		Model 212Vehicle level - rear axle MODEL 218Vehicle level - rear axle	*BE40.20-P-1001-03DA *BE40.20-P-1001-03W
5	Check the maximum permissible difference in vehicle level between the left and right side of the vehicle	<p><b>i</b> The specified test tolerance applies only when checking the vehicle level but not for calibration.</p> <p><b>i</b> If the vehicle level at the front or rear axle is out of tolerance, the springs and spring-rubber bushing must be checked for signs of wear and damage.</p> <p>Permissible difference in vehicle level at front axle between right and left sides of the vehicle ↓ Model 212Permissible difference in vehicle level between right and left side of vehicle MODEL 218Permissible difference in vehicle level between right and left side of vehicle Permissible difference in vehicle level at rear axle between right and left sides of the vehicle ↓ Model 212Permissible difference in vehicle level between right and left side of vehicle MODEL 218Permissible difference in vehicle level between right and left side of vehicle</p>	*BE40.20-P-1002-02ZA *BE40.20-P-1002-02V *BE40.20-P-1002-03DA *BE40.20-P-1002-03W
6	Adjust headlamps AP Check and correct the adjustment of the headlamps	Only if the vehicle level was adjusted.	AP82.10-P-8260EW

Check values for vehicle level at front axle

Number	Designation		MODEL 218.3 except 4MATIC, except CODE 489	MODEL 218.9 except 4MATIC, except CODE 489
BE40.20-P-1001-02V	Vehicle level - front axle	∠°	+2,59 (± 1,5)	+2,59 (± 1,5)

Check values for vehicle level at front axle

Number	Designation		MODEL 218 except 4MATIC, with CODE 489	MODEL 218.3 with 4MATIC, except CODE 489
BE40.20-P-1001-02V	Vehicle level - front axle	∠°	+2,59 (± 1,5)	+0,18 (± 1,5)

Check values for vehicle level at front axle

Number	Designation		MODEL 218.9 with 4MATIC except CODE 489	MODEL 218 with 4MATIC, with CODE 489
BE40.20-P-1001-02V	Vehicle level - front axle	∠°	+0,85 (± 1,5)	+0,85 (± 1,5)

Check values for vehicle level at front axle

Number	Designation		MODEL 218.3 AMG up to 11.2011	MODEL 218.3 AMG as of 12.2011 except 4MATIC
BE40.20-P-1001-02V	Vehicle level - front axle	∠°	+2,67 (± 1,5)	+2,67 (± 1,5)

Check values for vehicle level at front axle

Number	Designation		MODEL 218.9 AMG except 4MATIC	MODEL 218.3/9 AMG with 4MATIC

BE40.20-P-1001-02V	Vehicle level - front axle	$\Delta^\circ$	+2,67 ( $\pm 1,5$ )	+4,20 ( $\pm 1,5$ )
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Check values for vehicle level at front axle

Number	Designation		Model 212.0 with code 485, except 4MATIC	Model 212.0 with code 485, with 4MATIC
BE40.20-P-1001-02ZA	Vehicle level - front axle	$\Delta^\circ$	2,56 ( $\pm 1,5$ )	2,66 ( $\pm 1,5$ )

Check values for vehicle level at front axle

Number	Designation		Model 212.0 with code 486/677, except 4MATIC	Model 212.0 with code 486/677, with 4MATIC
BE40.20-P-1001-02ZA	Vehicle level - front axle	$\Delta^\circ$	0,12 ( $\pm 1,5$ )	0,25 ( $\pm 1,5$ )

Check values for vehicle level at front axle

Number	Designation		Model 212.002 with code P25	Model 212.0/2 with code 482
BE40.20-P-1001-02ZA	Vehicle level - front axle	$\Delta^\circ$	1,49 ( $\pm 1,5$ )	4,85 ( $\pm 1,5$ )

Check values for vehicle level at front axle

Number	Designation		Model 212.0/2 with code 489, except 4MATIC	Model 212.0/2 with code 489, with 4MATIC
BE40.20-P-1001-02ZA	Vehicle level - front axle	$\Delta^\circ$	0,27 ( $\pm 1,5$ )	0,25 ( $\pm 1,5$ )

Check values for vehicle level at front axle

Number	Designation		Model 212.1 with code 482	Model 212.1 with code 485
BE40.20-P-1001-02ZA	Vehicle level - front axle	$\Delta^\circ$	4,08 ( $\pm 1,5$ )	2,56 ( $\pm 1,5$ )

Check values for vehicle level at front axle

Number	Designation		Model 212.2 with code 485, except 4MATIC	Model 212.2 with code 485, with 4MATIC
BE40.20-P-1001-02ZA	Vehicle level - front axle	$\Delta^\circ$	2,56 ( $\pm 1,5$ )	2,66 ( $\pm 1,5$ )

Check values for vehicle level at front axle

Number	Designation		Model 212.2 with code 486/677, except 4MATIC	Model 212.2 with code 486/677, with 4MATIC
BE40.20-P-1001-02ZA	Vehicle level - front axle	$\Delta^\circ$	0,12 ( $\pm 1,5$ )	0,25 ( $\pm 1,5$ )

Check values for vehicle level at front axle

Number	Designation		MODEL 212.025/056/072 with CODEZ04	Model 212 AMG up to 11.2011, except 4MATIC
BE40.20-P-1001-02ZA	Vehicle level - front axle	$\Delta^\circ$	0,27 ( $\pm 1,5$ )	2,67 ( $\pm 1,5$ )

Check values for vehicle level at front axle

Number	Designation		Model 212 AMG as of 12.2011, except 4MATIC	Model 212 AMG with 4MATIC

BE40.20-P-1001-02ZA	Vehicle level - front axle	$\Delta^\circ$	2,67 ( $\pm 1,5$ )	4,20 ( $\pm 1,5$ )
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Check values for rear axle vehicle level

Number	Designation		Model 212.0 with code 485, except 4MATIC	Model 212.0 with code 485, with 4MATIC
BE40.20-P-1001-03DA	Vehicle level - rear axle	$\Delta^\circ$	1,60 ( $\pm 1,0$ )	1,6 ( $\pm 1,0$ )

Check values for rear axle vehicle level

Number	Designation		Model 212.0 with code 486/677, except 4MATIC	Model 212.0 with code 486/677, with 4MATIC
BE40.20-P-1001-03DA	Vehicle level - rear axle	$\Delta^\circ$	-0,06 ( $\pm 1,0$ )	-0,06 ( $\pm 1,0$ )

Check values for rear axle vehicle level

Number	Designation		Model 212.002 with code P25	Model 212.0/2 with code 482
BE40.20-P-1001-03DA	Vehicle level - rear axle	$\Delta^\circ$	0,72 ( $\pm 1,0$ )	3,07 ( $\pm 1,0$ )

Check values for rear axle vehicle level

Number	Designation		Model 212.0/2 with code 489, except 4MATIC	Model 212.0/2 with code 489, with 4MATIC
BE40.20-P-1001-03DA	Vehicle level - rear axle	$\Delta^\circ$	-0,26 ( $\pm 1,0$ )	-0,26 ( $\pm 1,0$ )

Check values for rear axle vehicle level

Number	Designation		Model 212.1 with code 482	Model 212.1 with code 485
BE40.20-P-1001-03DA	Vehicle level - rear axle	$\Delta^\circ$	2,58 ( $\pm 1,0$ )	1,60 ( $\pm 1,0$ )

Check values for rear axle vehicle level

Number	Designation		Model 212.2 with code 485, except 4MATIC	Model 212.2 with code 485, with 4MATIC
BE40.20-P-1001-03DA	Vehicle level - rear axle	$\Delta^\circ$	0,03 ( $\pm 1,0$ )	-0,26 ( $\pm 1,0$ )

Check values for rear axle vehicle level

Number	Designation		Model 212.2 with code 486/677, except 4MATIC	Model 212.2 with code 486/677, with 4MATIC
BE40.20-P-1001-03DA	Vehicle level - rear axle	$\Delta^\circ$	-1,24 ( $\pm 1,0$ )	-1,24 ( $\pm 1,0$ )

Check values for rear axle vehicle level

Number	Designation		MODEL 212.025/056/072 with CODEZ04	Model 212 AMG up to 11.2011, except 4MATIC
BE40.20-P-1001-03DA	Vehicle level - rear axle	$\Delta^\circ$	-0,26 ( $\pm 1,0$ )	-1,24 ( $\pm 1,0$ )

Check values for rear axle vehicle level

Number	Designation		Model 212 AMG as of 12.2011, except 4MATIC	Model 212 AMG with 4MATIC

BE40.20-P-1001-03DA	Vehicle level - rear axle	$\Delta^\circ$	0,79 ( $\pm 1,0$ )	-1,29 ( $\pm 1,0$ )
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Check values for rear axle vehicle level

Number	Designation		MODEL 218.3 except 4MATIC, except CODE 489	MODEL 218.9 except 4MATIC, except CODE 489
BE40.20-P-1001-03W	Vehicle level - rear axle	$\Delta^\circ$	-0,35 ( $\pm 1,0$ )	-1,46 ( $\pm 1,0$ )

Check values for rear axle vehicle level

Number	Designation		MODEL 218 except 4MATIC, with CODE 489	MODEL 218.3 with 4MATIC, except CODE 489
BE40.20-P-1001-03W	Vehicle level - rear axle	$\Delta^\circ$	-0,45 ( $\pm 1,0$ )	-0,65 ( $\pm 1,0$ )

Check values for rear axle vehicle level

Number	Designation		MODEL 218.9 with 4MATIC, except CODE 489	MODEL 218 with 4MATIC, with CODE 489
BE40.20-P-1001-03W	Vehicle level - rear axle	$\Delta^\circ$	-1,45 ( $\pm 1,0$ )	-0,45 ( $\pm 1,0$ )

Check values for rear axle vehicle level

Number	Designation		MODEL 218.3 AMG up to 11.2011	MODEL 218.3 AMG as of 12.2011 except 4MATIC
BE40.20-P-1001-03W	Vehicle level - rear axle	$\Delta^\circ$	-1,24 ( $\pm 1,0$ )	-0,79 ( $\pm 1,0$ )

Check values for rear axle vehicle level

Number	Designation		MODEL 218.9 AMG except 4MATIC	MODEL 218.3/9 AMG with 4MATIC
BE40.20-P-1001-03W	Vehicle level - rear axle	$\Delta^\circ$	-1,29 ( $\pm 1,0$ )	-1,29 ( $\pm 1,0$ )

Check values for vehicle level at front axle

Number	Designation		MODEL 218.3 except 4MATIC, except CODE 489	MODEL 218.9 except 4MATIC, except CODE 489
BE40.20-P-1002-02V	Permissible difference in vehicle level between right and left side of vehicle	$\Delta^\circ$	0,8	0,8

Check values for vehicle level at front axle

Number	Designation		MODEL 218 except 4MATIC, with CODE 489	MODEL 218.3 with 4MATIC, except CODE 489
BE40.20-P-1002-02V	Permissible difference in vehicle level between right and left side of vehicle	$\Delta^\circ$	0,8	0,8

Check values for vehicle level at front axle

Number	Designation		MODEL 218.9 with 4MATIC except CODE 489	MODEL 218 with 4MATIC, with CODE 489
BE40.20-P-1002-02V	Permissible difference in vehicle level between right and left side of vehicle	$\Delta^\circ$	0,8	0,8

Check values for vehicle level at front axle

Number	Designation	MODEL 218.3 AMG up to 11.2011	MODEL 218.3 AMG as of 12.2011 except 4MATIC
BE40.20-P-1002-02V	Permissible difference in vehicle level between right and left side of vehicle $\Delta^\circ$	0,8	0,8

Check values for vehicle level at front axle

Number	Designation	MODEL 218.9 AMG except 4MATIC	MODEL 218.3/9 AMG with 4MATIC
BE40.20-P-1002-02V	Permissible difference in vehicle level between right and left side of vehicle $\Delta^\circ$	0,8	0,8

Check values for vehicle level at front axle

Number	Designation	Model 212.0 with code 485, except 4MATIC	Model 212.0 with code 485, with 4MATIC
BE40.20-P-1002-02ZA	Permissible difference in vehicle level between right and left side of vehicle $\Delta^\circ$	0,8	0,8

Check values for vehicle level at front axle

Number	Designation	Model 212.0 with code 486/677, except 4MATIC	Model 212.0 with code 486/677, with 4MATIC
BE40.20-P-1002-02ZA	Permissible difference in vehicle level between right and left side of vehicle $\Delta^\circ$	0,8	0,8

Check values for vehicle level at front axle

Number	Designation	Model 212.002 with code P25	Model 212.0/2 with code 482
BE40.20-P-1002-02ZA	Permissible difference in vehicle level between right and left side of vehicle $\Delta^\circ$	0,8	0,8

Check values for vehicle level at front axle

Number	Designation	Model 212.0/2 with code 489, except 4MATIC	Model 212.0/2 with code 489, with 4MATIC
BE40.20-P-1002-02ZA	Permissible difference in vehicle level between right and left side of vehicle $\Delta^\circ$	0,8	0,8

Check values for vehicle level at front axle

Number	Designation	Model 212.1 with code 482	Model 212.1 with code 485
BE40.20-P-1002-02ZA	Permissible difference in vehicle level between right and left side of vehicle $\Delta^\circ$	0,8	0,8

Check values for vehicle level at front axle

Number	Designation	Model 212.2 with code 485, except 4MATIC	Model 212.2 with code 485, with 4MATIC
BE40.20-P-1002-02ZA	Permissible difference in vehicle level between right and left side of vehicle $\Delta^\circ$	0,8	0,8

Check values for vehicle level at front axle

Number	Designation	Model 212.2 with code 486/677, except 4MATIC	Model 212.2 with code 486/677, with 4MATIC
BE40.20-P-1002-02ZA	Permissible difference in vehicle level between right and left side of vehicle $\Delta^\circ$	0,8	0,8

Check values for vehicle level at front axle

Number	Designation	MODEL 212.025/056/072 with CODEZ04	Model 212 AMG up to 11.2011, except 4MATIC
BE40.20-P-1002-02ZA	Permissible difference in vehicle level between right and left side of vehicle $\Delta^\circ$	0,8	0,8

Check values for vehicle level at front axle

Number	Designation	Model 212 AMG as of 12.2011, except 4MATIC	Model 212 AMG with 4MATIC
BE40.20-P-1002-02ZA	Permissible difference in vehicle level between right and left side of vehicle $\Delta^\circ$	0,8	0,8

Check values for rear axle vehicle level

Number	Designation	Model 212.0 with code 485, except 4MATIC	Model 212.0 with code 485, with 4MATIC
BE40.20-P-1002-03DA	Permissible difference in vehicle level between right and left side of vehicle $\Delta^\circ$	0,5	0,5

Check values for rear axle vehicle level

Number	Designation	Model 212.0 with code 486/677, except 4MATIC	Model 212.0 with code 486/677, with 4MATIC
BE40.20-P-1002-03DA	Permissible difference in vehicle level between right and left side of vehicle $\Delta^\circ$	0,5	0,5

Check values for rear axle vehicle level

Number	Designation	Model 212.002 with code P25	Model 212.0/2 with code 482
BE40.20-P-1002-03DA	Permissible difference in vehicle level between right and left side of vehicle $\Delta^\circ$	0,5	0,5

Check values for rear axle vehicle level

Number	Designation	Model 212.0/2 with code 489, except 4MATIC	Model 212.0/2 with code 489, with 4MATIC
BE40.20-P-1002-03DA	Permissible difference in vehicle level between right and left side of vehicle $\Delta^\circ$	0,5	0,5

Check values for rear axle vehicle level

Number	Designation	Model 212.1 with code 482	Model 212.1 with code 485
BE40.20-P-1002-03DA	Permissible difference in vehicle level between right and left side of vehicle $\Delta^\circ$	0,5	0,5

Check values for rear axle vehicle level



Number	Designation	Model 212.2 with code 485, except 4MATIC	Model 212.2 with code 485, with 4MATIC
BE40.20-P-1002-03DA	Permissible difference in vehicle level between right and left side of vehicle $\Delta^\circ$	0,5	0,5

Check values for rear axle vehicle level

Number	Designation	Model 212.2 with code 486/677, except 4MATIC	Model 212.2 with code 486/677, with 4MATIC
BE40.20-P-1002-03DA	Permissible difference in vehicle level between right and left side of vehicle $\Delta^\circ$	0,5	0,5

Check values for rear axle vehicle level

Number	Designation	MODEL 212.025/056/072 with CODE204	Model 212 AMG up to 11.2011, except 4MATIC
BE40.20-P-1002-03DA	Permissible difference in vehicle level between right and left side of vehicle $\Delta^\circ$	0,5	0,5

Check values for rear axle vehicle level

Number	Designation	Model 212 AMG as of 12.2011, except 4MATIC	Model 212 AMG with 4MATIC
BE40.20-P-1002-03DA	Permissible difference in vehicle level between right and left side of vehicle $\Delta^\circ$	0,5	0,5

Check values for rear axle vehicle level

Number	Designation	MODEL 218.3 except 4MATIC, except CODE 489	MODEL 218.9 except 4MATIC, except CODE 489
BE40.20-P-1002-03W	Permissible difference in vehicle level between right and left side of vehicle $\Delta^\circ$	0,5	0,5

Check values for rear axle vehicle level

Number	Designation	MODEL 218 except 4MATIC, with CODE 489	MODEL 218.3 with 4MATIC, except CODE 489
BE40.20-P-1002-03W	Permissible difference in vehicle level between right and left side of vehicle $\Delta^\circ$	0,5	0,5

Check values for rear axle vehicle level

Number	Designation	MODEL 218.9 with 4MATIC, except CODE 489	MODEL 218 with 4MATIC, with CODE 489
BE40.20-P-1002-03W	Permissible difference in vehicle level between right and left side of vehicle $\Delta^\circ$	0,5	0,5

Check values for rear axle vehicle level

Number	Designation	MODEL 218.3 AMG up to 11.2011	MODEL 218.3 AMG as of 12.2011 except 4MATIC
BE40.20-P-1002-03W	Permissible difference in vehicle level between right and left side of vehicle $\Delta^\circ$	0,5	0,5

Check values for rear axle vehicle level

Number	Designation	MODEL 218.9 AMG except 4MATIC	MODEL 218.3/9 AMG with 4MATIC
BE40.20-P-1002-03W	Permissible difference in vehicle level between right and left side of vehicle $\Delta^\circ$	0,5	0,5