



AR35.31-P-0520-03SX	Check rear axle differential oil level, correct if necessary		
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**Model 166, 207, 216, 218, 221**  
**Model 204 (except 204.377)**  
**except code 700 (Technology Local Content China)**  
**except code P98 (Black Series)**  
**Model 212**  
**except code 700 (Technology Local Content China)**  
**Model 231 with engine 157, 276, 278**  
**Model 292**

 Rear axle differential housing

Number	Designation		Model 166	Model 292
BA35.31-P-1001-02E	Filling screw for rear axle differential	Nm	50	50

 Rear axle differential housing


Number	Designation		Model 216	Model 221
BA35.31-P-1002-02G	Oil filler screw, differential	Nm	50	50

 Rear axle differential housing

Number	Designation		Model 204 except code 700 (Technology Local Content China) except code P98 (Black Series)	Model 207
BA35.31-P-1002-02H	Oil filler screw of rear axle differential	Nm	50	50

 Rear axle differential housing


Number	Designation		Model 212.0/2 Model 212.1 except code 700 (Technology Local Content China)	Model 218
BA35.31-P-1002-02H	Oil filler screw of rear axle differential	Nm	50	50

 Rear axle differential housing


Number	Designation		Model 231
BA35.31-P-1002-02H	Oil filler screw of rear axle differential	Nm	50

 Differential


Number	Designation		MODEL 216	MODEL 221
BF35.31-P-1001-01S	Filling capacity	Rear axle differential 200FE, Liter Ø 200 mm	1,1	1,1
		Rear axle differential 215FE, Liter Ø 215 mm	1,2	1,2
		Rear axle differential 240FE, Liter Ø 240 mm	1,6	1,6
		Rear axle differential 240V, Liter Ø 240 mm	–	1,9
		Sheet	BB00.40-P-0235-07A	BB00.40-P-0235-07A

 Rear axle gear


Number	Designation	Model 166	Model 204 (except 204.077/277/377) except code 700 (Technology Local Content China)
BF35.31-P-1001-01T	Filling capacity	Rear axle differential 183 FE, Liter Ø 183 mm	-
		Sheet	-
		Rear axle differential 187 FE, Liter Ø 187 mm	0,95
		Sheet	BB00.40-P-0235-07A
		Rear axle differential 200 FE, Liter Ø 200 mm	1,1
		Sheet	BB00.40-P-0235-07A
		Rear axle differential 215 FE, Ø 215 mm	1,2
		Sheet	BB00.40-P-0235-07A

 Rear axle gear


Number	Designation	MODEL 204.077/277, MODEL 204.377 except CODE B25/P98	Model 207
BF35.31-P-1001-01T	Filling capacity	Rear axle differential 183 FE, Liter Ø 183 mm	-
		Sheet	-
		Rear axle differential 187 FE, Liter Ø 187 mm	-
		Sheet	BB00.40-P-0235-07A
		Rear axle differential 200 FE, Liter Ø 200 mm	-
		Sheet	BB00.40-P-0235-07A
		Rear axle differential 215 FE, Ø 215 mm	1,2
		Sheet	BB00.40-P-0235-61A

 Rear axle gear


Number	Designation	Model 212 (except 212.074/075/076/077/092/274/275/276/277/292) except code 700 (Technology Local Content China)	Model 212.074/075/076/077/092/274/275/276/277/292
BF35.31-P-1001-01T	Filling capacity	Rear axle differential 183 FE, Liter Ø 183 mm	-
		Sheet	-
		Rear axle differential 187 FE, Liter Ø 187 mm	0,85
		Sheet	BB00.40-P-0235-07A
		Rear axle differential 200 FE, Liter Ø 200 mm	1,0
		Sheet	BB00.40-P-0235-07A
		Rear axle differential 215 FE, Ø 215 mm	1,1
		Sheet	BB00.40-P-0235-07A

 Rear axle gear


Number	Designation		MODEL 218 except AMG	MODEL 218 AMG
BF35.31-P-1001-01T	Filling capacity	Rear axle differential 183 FE, Liter Ø 183 mm	-	-
		Sheet	-	-
		Rear axle differential 187 FE, Liter Ø 187 mm	-	-
		Sheet	-	-
		Rear axle differential 200 FE, Liter Ø 200 mm	1,1	-
		Sheet	BB00.40-P-0235-07A	-
		Rear axle differential 215 FE, Ø 215 mm	1,2	1,2
Sheet	BB00.40-P-0235-07A	BB00.40-P-0235-61 A		

 Rear axle gear


Number	Designation		Model 231 except AMG	Model 231 AMG
BF35.31-P-1001-01T	Filling capacity	Rear axle differential 183 FE, Liter Ø 183 mm	-	-
		Sheet	-	-
		Rear axle differential 187 FE, Liter Ø 187 mm	-	-
		Sheet	-	-
		Rear axle differential 200 FE, Liter Ø 200 mm	1,1	-
		Sheet	BB00.40-P-0235-07A	-
		Rear axle differential 215 FE, Ø 215 mm	1,2	1,2
Sheet	BB00.40-P-0235-07A	BB00.40-P-0235-61 A		

 Rear axle gear

Number	Designation		Model 292
BF35.31-P-1001-02A	ALU rear axle differential filling capacity	ALU rear axle differential 183 Liter	0,8
		Sheet	BB00.40-P-0239-71 A

 Rear axle gear

Number	Designation		Model 292
BF35.31-P-1002-02A	ALU rear axle differential filling capacity	ALU rear axle differential 197 Liter	0,9
		Sheet	BB00.40-P-0239-71 A


 Rear axle gear

Number	Designation		Model 292
BF35.31-P-1003-02A	FE rear axle differential filling capacity	FE rear axle differential 215 Liter	1,2
		Sheet	BB00.40-P-0235-07 A

Repair materials

Number	Designation	Order number
BR00.45-Z-1046-04A	Loctite 7063 (400 ml) cleaning spray	A 001 986 71 71 09
BR00.45-Z-1061-01A	Sealant, Omnifit 100H (50 g)	A 002 989 23 71

1 Check temperature of rear axle differential.

 Only check and correct oil level in rear axle differential if rear axle differential is at room temperature. Required oil may run out at a higher temperature, while at a lower temperature overfilling can occur. Both can cause damage to the rear axle differential.

If the rear axle differential is not at room temperature:



Wait until the rear axle differential has cooled down or warmed up to room temperature.

2 Clean area around the filling screw (50g).

3 Unscrew filling screw (50g) and allow any oil which may escape to drain into a suitable container.

4 Check oil level in rear axle differential.

 The oil must reach the lower edge of the threaded hole.

If the oil does not reach the lower edge of the threaded hole:



Top up oil to the lower edge of the threaded hole.

Model 292

 Model 292

 Model 292

 Model 166

Model 204 (except 204.377)

except code 700 (Technology Local Content China)

except code P98 (Black Series)

Model 207

Model 212

except code 700 (Technology Local Content China)

Model 218 (except 218.374/974)


Model 218.374/974

Model 231 (except 231.474) with engine 157, 276, 278

Model 231.474 with engine 157

with code 471 (Manual locking differential)

with code P30 (AMG Performance Package)

 Model 216


Rear axle differential 215FE, Ø 215 mm Model 216

Rear axle differential 240FE, Ø 240 mm Model 221

Rear axle differential 200FE, Ø 200 mm Model 221

Rear axle differential 215FE, Ø 215 mm Model 221

Rear axle differential 240FE, Ø 240 mm Model 221 Rear axle differential 240V,

Ø 240 mm 

5 Clean new filling screw (50g) and threaded hole in rear axle differential using cleaning spray and lint-free rag.


 The filling screw (50g) and threaded hole must be free of oil and grease.

6 Apply one drop of Apply sealant to the second lower flank on the new filling screw (50g).


7 Screw the new filling screw (50g) immediately into the rear axle differential and tighten.

Model 166

Model 292

 Model 216

Model 221

 Model 204 (except 204.377)

except code 700 (Technology Local Content China)

except code P98 (Black Series)

Model 207

Model 212.0/2

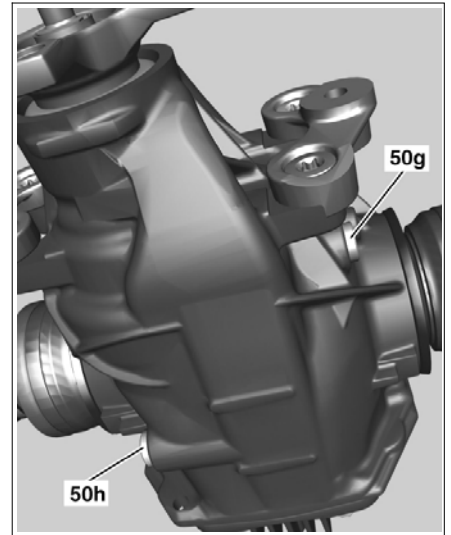
except code 700 (Technology Local Content China)

Model 212.1

except code 700 (Technology Local Content China)

Model 218

Model 231 with engine 157, 276, 278 



P35.31-2194-02



P35.31-2158-01