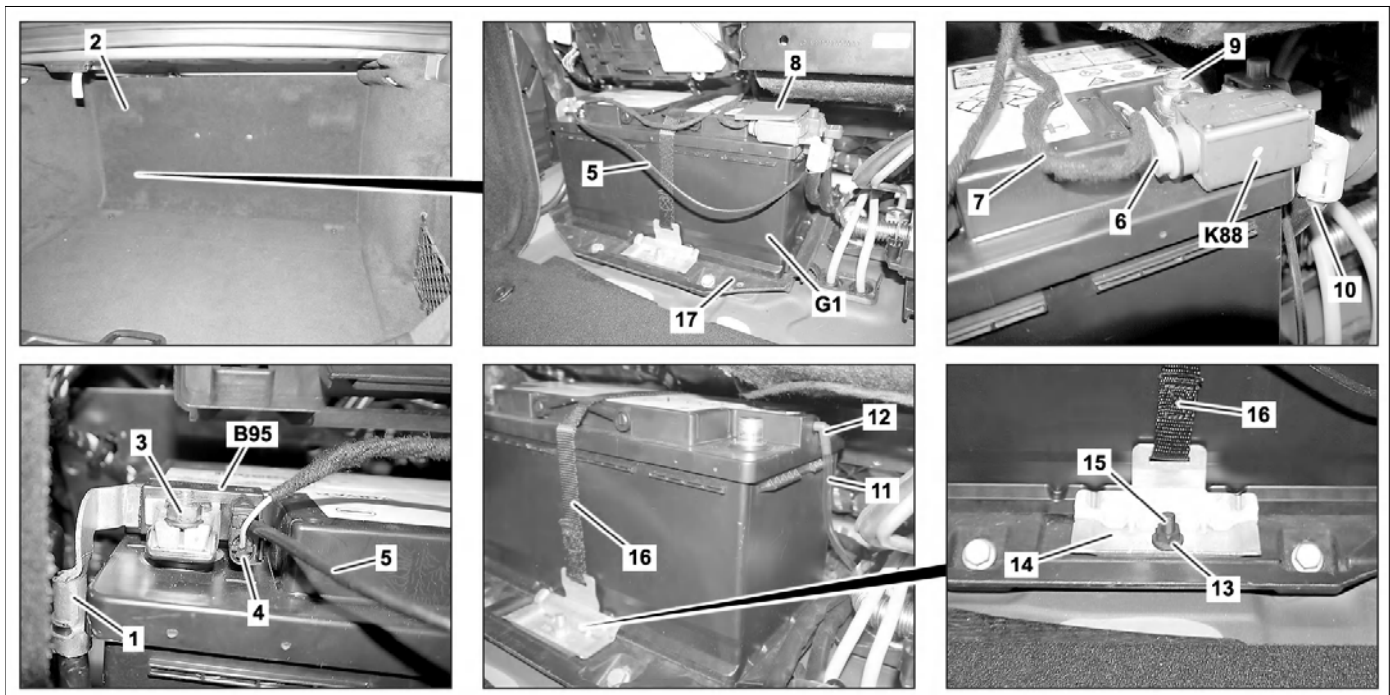


Model 222.004/057/077/104/157/177/178/179/187/188
 Model 222.058/059/060/158/159/160
 Model 222.083/086/183/186/983/986
 with code 810 (Sound system)
 Model 222.176
 except code Z07 (Top protection)

Modification notes













14.07.2017	Safety note AS00.00-Z-0011-01A replaced by AS00.00-Z-0009-01A.		
14.07.2017	Sequence changed.	Operation steps 3, 4 and 8-10	
14.07.2017	Operation step validity inserted.	Step 5	
14.07.2017	Method modified.	Operation step 13	



P54.10-3862-09

1	Ground cable	8	Cover for positive terminal	15	Threaded pins
2	Partition wall paneling	9	Nut	16	Tensioning strap
3	Nut	10	Positive line	17	Battery carrier
4	Electrical connector	11	Vent hose	B95	Battery sensor
5	Electrical line	12	Elbow fitting	G1	On-board electrical system battery
6	Electrical connector	13	Nut	K88	Pyrotechnical separator
7	Electrical line	14	Tab		

⚠ Warning	Risk of injury. Moving parts can pinch, crush or, in extreme cases even sever extremities.	No parts of the body or limbs should be within the operating area of mechanical components when moving components.	AS00.00-Z-0009-01A
	Risk of explosion from explosive gas. Risk of poisoning and caustic burns from swallowing battery electrolyte. Risk of injury through burns to skin and eyes from battery acid or when handling damaged lead-acid batteries	No fires, sparks, open flames or smoking. Wear acid-resistant gloves, clothing and glasses. Only pour battery acid into suitable and appropriately marked containers.	AS54.10-Z-0001-01A
⚠ Warning	Risk of injury caused by contact with battery gel when handling damaged lead-gelbatteries	No fires, sparks, open flames or smoking. Wear acid-resistant gloves, clothing and glasses.	AS54.10-Z-0001-02A

 Warning	Risk of injury caused by caustic burns to eyes, skin and mucous membranes from battery electrolyte or due to short circuit. Risk of burn injuries due to thermal changes. Risk of poisoning from swallowing battery electrolyte.	Wear protective gloves, protective clothing and safety glasses. In the event of escaping battery electrolyte, battery vapors, battery mist, smoke or heat development, secure the area, leave it and alert the fire department.	AS54.10-Z-0001-04A
	Notes on 12 V/48 V lithium-ion battery		AH54.10-P-0004-01A
	Notes on battery		AH54.10-P-0001-01A
	Notes on HANDS-FREE ACCESS		AH80.61-P-0001-01A
	Remove/install		
1	Print out checklist for transport safety of on-board electrical system battery (G1)	Model 222.077/177/178/179/187/188 When replacing the on-board electrical system battery (G1).	
 OF	Transport safety checklist for starter battery, form		OF54.10-P-3000-13A
2	Answer questions on installed on-board electrical system battery (G1) based on checklist for transport safety	Model 222.077/177/178/179/187/188 When replacing the on-board electrical system battery (G1).	
3	Switch off all electrical consumers, and disconnect charger and vehicle diagnosis system	If electrical consumers are active, a charger or a vehicle diagnosis system is connected.  Switch off all electrical consumers. Risk of damage to consumers when disconnecting/connecting ground line.	AD00.00-P-2000-04B
4	Switch off ignition and store transmitter key outside of transmission range (min. 2 m)		
5	Unlock engine hood	Model 222.004/057/104/157  Opening the hood deactivates the pre-entry climate control. This ensures that no currents are flowing in the 12 V on-board electrical system.	
6	Remove partition trim (2)		AR68.30-P-4600LF
7	Release nut (3) and disconnect ground line (1) from negative terminal of on-board electrical system battery (G1)	 Nut, charging cable to negative terminal/positive terminal of on-board electrical system battery	*BA54.10-P-1003-01J
8	Remove positive terminal cover (8)		
9	Using a diode test lamp, check the on-board electrical system for voltage between the positive line (10) and the disconnected ground line (1)	If the diode test lamp lights up. ↓ Detach ground line from additional battery. Model 222.004/057/104/157 except code B01 (48V technology) except code Z07 (Top protection) Model 222.083/086/183/186/983/986 with code 810 (Sound system) except code B01 (48V technology) except code Z07 (Top protection)  Cover up the positive line (10). There is a risk of short circuit otherwise.  If the diode test lamp lights up, check the on-board electrical system after completing the operation.	AR54.10-P-0007LF
10	Disconnect electrical connector (4) from battery sensor (B95) and place electric line (5) to one side		
11	Disconnect electrical connector (6) from pyrotechnical separator (K88) and place electric line (7) to one side		
12	Release nut (9) and disconnect positive line (10) from positive pole of on-board electrical system battery (G1)	 Nut, charging cable to negative terminal/positive terminal of on-board electrical system battery	*BA54.10-P-1003-01J
13	Detach elbow fitting (12) from on-board electrical system battery (G1)	 Installation: Check vent hose (11) is seated and routed correctly. Battery acid vapors emitted will otherwise damage surrounding components.	
14	Unscrew nut (13)	 Nut, tensioning strap to battery frame	*BA54.10-P-1002-01J
15	Take tab (14) off threaded pin (15) and place to one side	 Installation: Do not install tensioning strap (16) twisted.	

16	Take on-board electrical system battery (G1) out of battery carrier (17) and then out of the trunk	⚠ Carefully remove on-board electrical system battery (G1) from the battery carrier (17). The threaded pin (15) may otherwise damage the on-board electrical system battery (G1).	
17	Install in the reverse order		
18	Answer questions on removed on-board electrical system battery (G1) based on checklist for transport safety	Model 222.077/177/178/179/187/188 When replacing the on-board electrical system battery (G1).	
19	Confirm battery change in SAM control unit in Actuations menu item	Model 222.004/057/104/157 except code U98 (LITHIUM-IONEN-STARTERBATTERIE (LISB)) Model 222.176 except code U98 (LITHIUM-IONEN-STARTERBATTERIE (LISB)) except code Z07 (Top protection) When replacing the on-board electrical system battery (G1).	
AD			AD00.00-P-2000-04B

Nm Battery

Number	Designation		Model 222
BA54.10-P-1002-01J	Nut, tensioning strap to battery frame	Nm	23

Nm Battery

Number	Designation		Model 222
BA54.10-P-1003-01J	Nut, charging cable to negative terminal/positive terminal of on-board electrical system battery	Nm	6