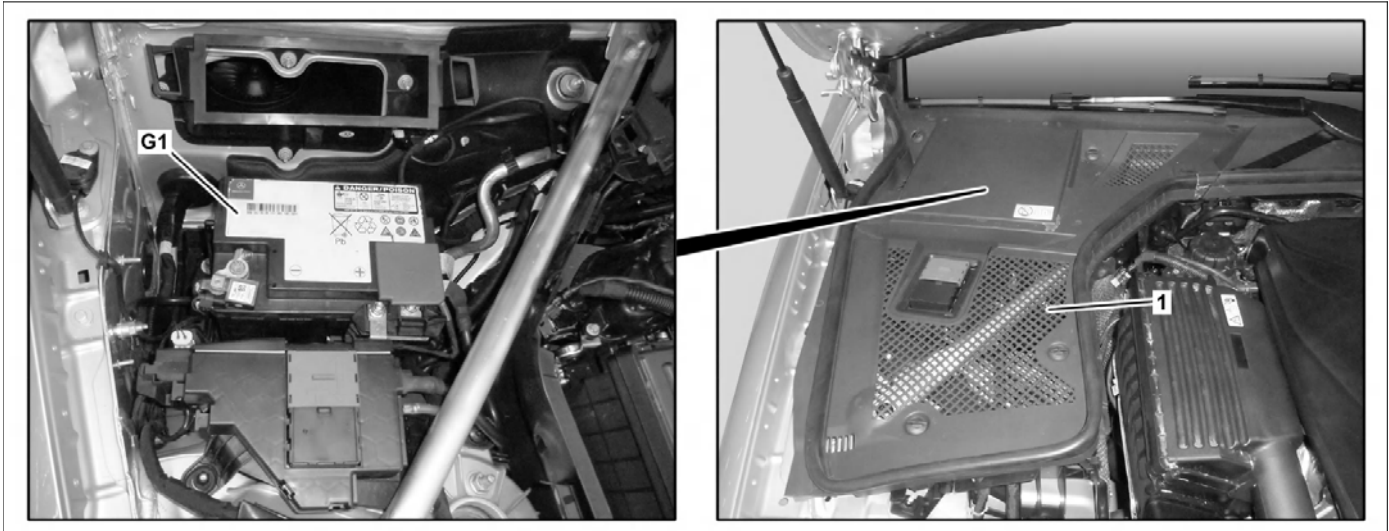


Model 205
 except code P25 (BlueEFFICIENCY Edition)
 except code U98 (LITHIUM-IONEN-STARTERBATTERIE (LISB))

Model 213, 238, 253
 except code U98 (LITHIUM-IONEN-STARTERBATTERIE (LISB))

Modification notes

24.10.2018	Document revised completely.	
10.05.2019	Battery capacity 70 Ah VRLA/AGM	BE54.10-P-1010-01A







P54.10-3965-08

Shown on model 205 with on-board electrical system battery (G1) in engine compartment

1 Cover

G1 On-board electrical system battery

	Risk of fire /risk of explosion due to short circuit and escaping oxyhydrogen gas. Risk of (burn) injury caused by caustic burns to eyes, skin and mucous membranes from battery electrolyte/mist, short circuit and arcing. Risk of poisoning caused by swallowing battery electrolyte or absorption of lead through the skin or body orifices. Risk of death due to voltage $U \geq 30$ V AC and $U \geq 60$ V DC.	No fires, sparks, open flames, or smoking. Wear acid-resistant gloves, clothing, and glasses. Pour battery acid only into suitable and appropriately marked containers.	AS54.10-Z-0001-01A
⚠ Warning	Risk of injury caused by fingers being jammed or pinched when removing, installing or aligning hoods, doors, trunk lid/rear-end door or sliding roof.	No parts of the body or limbs should be within the operating area when the components are moving.	AS00.00-Z-0011-01A
	Risk of death when working on component parts and systems with $U \geq 30$ V alternating voltage (AC) or $U \geq 60$ V direct voltage (DC)	Do not touch damaged or defective live component parts and lines or non-insulated electrical connections and lines.	AS00.00-Z-0035-01A
	General information on handling vehicles with high-voltage on-board electrical system and/or lithium-ion battery and/or gaseous-fuel drive system		AH00.00-Z-0300-01A
	Notes on battery		AH54.10-P-0001-01A
	Notes on HANDS-FREE ACCESS		AH80.61-P-0001-01A
⚠	Remove/install		
1	Expose on-board electrical system battery (G1).	Model 238 except code B01 (48V technology) except code U98 (LITHIUM-IONEN-STARTERBATTERIE (LISB))	AR54.10-P-0009LWO

		<p>Model 238 with code B01 (48V technology) except code U98 (LITHIUM-IONEN-STARTERBATTERIE (LISB))</p> <p>Model 205 (except 205.012/047/147/212/247) except code P25 (BlueEFFICIENCY Edition) except code U98 (LITHIUM-IONEN-STARTERBATTERIE (LISB))</p> <p>Model 213, 253 except code U98 (LITHIUM-IONEN-STARTERBATTERIE (LISB))</p> <p>Model 205.012/212 except code P25 (BlueEFFICIENCY Edition) except code U98 (LITHIUM-IONEN-STARTERBATTERIE (LISB))</p> <p>Model 205.047/147/247 except code P25 (BlueEFFICIENCY Edition) except code U98 (LITHIUM-IONEN-STARTERBATTERIE (LISB))</p> <p> The test should, if possible, be carried when the on-board electrical system battery (G1) is installed and connected.</p>	<p>AR54.10-P-0009LWK</p> <p>AR54.10-P-0005LW</p> <p>AR54.10-P-0005LWH</p> <p>AR54.10-P-0005LWA</p>
	Check		
2	Perform visual check for external leakage at on-board electrical system battery (G1).	<p>If the on-board electrical system battery (G1) is leaky,</p> <p style="text-align: center;">↓</p> <p>replace on-board electrical system battery (G1).</p> <p>Model 238 except code B01 (48V technology) except code U98 (LITHIUM-IONEN-STARTERBATTERIE (LISB))</p> <p>Model 238 with code B01 (48V technology) except code U98 (LITHIUM-IONEN-STARTERBATTERIE (LISB))</p> <p>Model 205 (except 205.012/047/147/212/247) except code P25 (BlueEFFICIENCY Edition) except code U98 (LITHIUM-IONEN-STARTERBATTERIE (LISB))</p> <p>Model 213, 253 except code U98 (LITHIUM-IONEN-STARTERBATTERIE (LISB))</p> <p>Model 205.012/212 except code P25 (BlueEFFICIENCY Edition) except code U98 (LITHIUM-IONEN-STARTERBATTERIE (LISB))</p> <p>Model 205.047/147/247 except code P25 (BlueEFFICIENCY Edition) except code U98 (LITHIUM-IONEN-STARTERBATTERIE (LISB))</p>	<p>AR54.10-P-0009LWO</p> <p>AR54.10-P-0009LWK</p> <p>AR54.10-P-0005LW</p> <p>AR54.10-P-0005LWH</p> <p>AR54.10-P-0005LWA</p>
3 	Check on-board electrical system battery (G1). 000 588 02 19 00 Battery tester	<p>Battery capacity 60 Ah VRLA/AGM</p> <p>Battery capacity 70 Ah VRLA/AGM</p> <p>Battery capacity 80 Ah VRLA/AGM</p> <p>Battery capacity 95 Ah VRLA</p>	<p>AR54.10-P-1129-01A</p> <p>WS54.00-N-3006B</p> <p>*BE54.10-P-1006-01A</p> <p>*BE54.10-P-1010-01A</p> <p>*BE54.10-P-1012-01A</p> <p>*BE54.10-P-1015-01A</p>
4.1 	Remove increased voltage. 000 588 03 19 00 Load tester	If there is the message "Surface voltage detected" on the battery test device or a stress under proof load of more than 12.8 V.	<p>AR54.10-P-1129-03A</p> <p>WS15.00-P-0027B</p>
4.2	Charge on-board electrical system battery (G1).	If the "Charge and test" message appears on the battery test device.	AR54.10-P-1130LW
4.3	Replace on-board electrical system battery (G1).	<p>If there is the message "Replace on-board electrical system battery" on the battery test device.</p> <p>Model 238 except code B01 (48V technology) except code U98 (LITHIUM-IONEN-STARTERBATTERIE (LISB))</p> <p>Model 238 with code B01 (48V technology) except code U98 (LITHIUM-IONEN-STARTERBATTERIE (LISB))</p>	<p>AR54.10-P-0009LWO</p> <p>AR54.10-P-0009LWK</p>

		Model 205 (except 205.012/047/147/212/247) except code P25 (BlueEFFICIENCY Edition) except code U98 (LITHIUM-IONEN-STARTERBATTERIE (LISB)) Model 213, 253 except code U98 (LITHIUM-IONEN-STARTERBATTERIE (LISB)) Model 205.012/212 except code P25 (BlueEFFICIENCY Edition) except code U98 (LITHIUM-IONEN-STARTERBATTERIE (LISB)) Model 205.047/147/247 except code P25 (BlueEFFICIENCY Edition) except code U98 (LITHIUM-IONEN-STARTERBATTERIE (LISB))	AR54.10-P-0005LW AR54.10-P-0005LWH AR54.10-P-0005LWA
5	Check on-board electrical system battery (G1) again. 000 588 02 19 00 Battery tester	After removing an increased charging voltage or charging the on-board electrical system battery (G1) after the message "Charge and check" on battery test device. Battery capacity 60 Ah VRLA/AGM Battery capacity 70 Ah VRLA/AGM Battery capacity 80 Ah VRLA/AGM Battery capacity 95 Ah VRLA	AR54.10-P-1129-01A WS54.00-N-3006B *BE54.10-P-1006-01A *BE54.10-P-1010-01A *BE54.10-P-1012-01A *BE54.10-P-1015-01A
6	Install in the reverse order		

Test and adjustment values for battery

Number	Designation	Model all (4xWD, CAR, smart)
BE54.10-P-1006-01A	Battery capacity 60 Ah Cold cranking amps As per EN VRLA/AGM	A 660

Test and adjustment values for battery

Number	Designation	Model all (4xWD, CAR, smart)
BE54.10-P-1010-01A	Battery capacity 70 Ah Cold cranking amps As per EN VRLA/AGM	A 720

Test and adjustment values for battery

Number	Designation	Model all (4xWD, CAR, smart)
BE54.10-P-1012-01A	Battery capacity 80 Ah Cold cranking amps As per EN VRLA/AGM	A 800

Test and adjustment values for battery

Number	Designation	Model all (4xWD, CAR, smart)
BE54.10-P-1015-01A	Battery capacity 95 Ah Cold cranking amps As per EN VRLA	A 850