

Direct starting/ ECO start/stop inoperative and fault code B21059A current and stored in CBC (front SAM)

Topic number	LI54.10-P-065994
Version	4
Function group	54.10 Battery, power supply, voltage converter
Date	09-18-2017
Validity	BR246, 176, 117 and 156 with code 806 and 807 from production period 09/2015 to 08/2016
Reason for change	Code 807 added
Reason for block	

Complaint:

Direct starting/ ECO start/stop inoperative and fault code B21059A - "The capacity of the starter battery is too low. The operating conditions for the component or the system are not satisfied", current and stored in N10 (SAM).

Note:

Only affects vehicles with EFB wet batteries - object number A 001 982 5508, 70 Ah and A 001 982 5608, 80 Ah.

Cause:

Charge level of starter battery constantly between 55- 65% SOC due to insufficient battery power, driving style and battery management.

Note:

A battery age detection function is implemented in the on-board electrical system management.

Due to inadequate battery care prior to delivery of the vehicle and certain driving profiles, premature aging of the installed EFB battery can occur.

Remedy:

Replace starter battery.

- 1) Replace EFB wet battery with AGM (fleece) battery technology - See AR54.10-P-0005NKB
- 2) In VeDoc, delete the FO code 110 "EFB battery installed" and document the new object number.
- 3) Perform SCN coding of N10 (SAM) again; this is necessary for adjusting the charging characteristic.
- 4) Reset battery counter - See SI54.10-P-0046A

Note:

- 1) AR54.10-P-0005NKB - Observe step 3.1

XENTRY TIPS

2) SI54.10-P-0046A - Resetting the starter battery charge throughput counter.

3) In this special case, the Midtronics test must NOT be performed because the Midtronics test result cannot indicate the cause of the fault. This case is an absolute special case with these specific vehicles and is only to be handled with this fault code with regard to the Midtronics test; it is not applicable to other damage profiles or other vehicles. The WMR/EWMR article 04-02-020 continues to apply for all other damage types and vehicles.

The initial quick test log with corresponding fault code is to be filed in a tamperproof manner, and the fault code must be noted in the message field of the warranty claim.

Symptoms
Overall vehicle / Power supply / Battery/On-board electrical system / Battery function / Battery cannot be charged

Control unit/fault code		
Control unit	Fault code	Fault text
N10 - Signal acquisition and actuation module (SAM) (CBC-BOLERO)	B21059A	The capacity of the starter battery is too low. The operating conditions for the component or the system are not satisfied.

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 001 982 80 08			AGM starter battery 70 Ah	1		X
A 001 982 81 08			AGM starter battery 80 Ah	1		X

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
			54001 53	

WIS-References			
Document number	Title	Note	Allocation
AR54.10-P-0005NKB	Remove/install battery	Observe step 3.1.	Remedy
SI54.10-P-0046A	Resetting the starter battery charge throughput counter	Service Information	Remedy