Vehicle does not start, battery discharged.

Topic number LI54.10-P-066341

Version 3

Function group 54.10 Battery, power supply, voltage converter

Date 08-08-2017

Validity BR231 and BR172
Reason for change Examples added

Reason for block

Complaint:

Vehicle does not start, battery discharged.

The on-board electrical system data indicates a high discharge in the engine-off cycle; "CAN bus awake unusually long", "Charge balance UNUSUAL"

Attachments				
File	Description			
Beispiel_Buswachhalter.pdf	Example_bus keepawake control unit			
example_BUS_keep_awake.pdf	Example_BUS_keep_awake			

Cause:

To be able to assess whether a bus keepawake event caused the battery discharge, it is necessary to examine the stationary cycles. A constantly active CAN is identified by the text "Interior CAN awake unusually long" (see attachment). If this text is not displayed, the battery discharge has a different cause.

Cause 1:

IC (instrument cluster) is keeping the CAN bus awake. Vehicle battery is being discharged.

Affects vehicles with code 807 (Model Year 2017).

Fault identification:

- 1. Affects vehicles as of code 807.
- 2. The on-board electrical system data indicates a high discharge in the engine-off cycle; "CAN bus awake unusually long", "Charge balance UNUSUAL"
- 3. The bus keepawake entry names the IC

NOTE: See examples in attachments below

Cause 2:

HERMES is keeping the CAN bus awake, only affects USA (code 494). Refer to LI82.85-P-066086.

XENTRY TIPS

With code 362 (HERMES LTE communication module), code 522 (Audio 20) and code 807

If the vehicle does not match Cause 1 or Cause 2 please open a PTSS Case, see "Remedy" 3 below.

Remedy:

Remedy 1:

DO NOT REPLACE ANY PARTS. This complaint can only be resolved by a software update.

Remedy (with Clean Point) to be published per TIPS.

Please open a PTSS Case including documentation described in Remedy 3 below.

Damage code: 54201-54

Remedy 2:

Refer to LI82.85-P-066086.

Damage code: 8209Z-90

"Remedy" 3:

If not identified in Cause 1 or 2, please create a PTSS case with all the documents listed below and include in the case attachments.

Engineering may provide further instruction upon reviewing each case.

Documents needed in case attachments:

- 1. Quick test
- 2. Control units event log for signal acquisition and actuation module (SAM)
- 3. Bus keepawake event detection (from EIS --> Actual values)
- 3.1. Last bus keepawake entry
- 3.2. Last-but-one bus keepawake entry
- 4. Up-to-date quiescent current measurement.

Symptoms

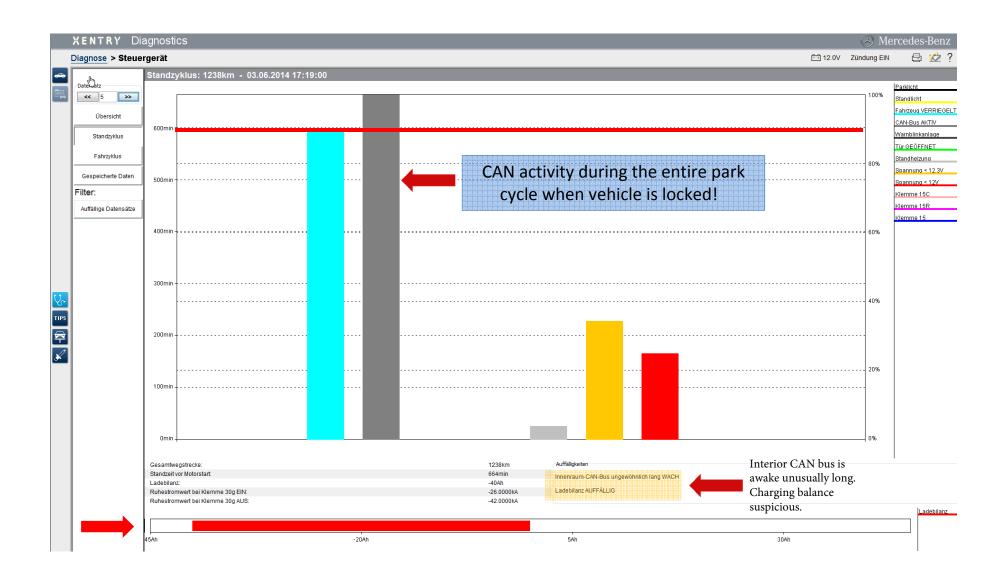
Overall vehicle / Power supply / Battery/On-board electrical system / Battery function / Battery discharges

Overall vehicle / Power supply / Battery/On-board electrical system / Battery/on-board electrical system display message / Low voltage Charge battery

Operation numbers/damage codes						
Op. no.	Operation text	Time	Damage code	Note		
			54201 54	Instrument cluster - no-load current too high		

XENTRY TIPS

8	3209Z 90	Communication module for telematics service - software release



BODY-CAN keeps awake – technical issue

