

## Vehicle does not start, battery discharged.

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Topic number	LI54.10-P-066342
Version	1
Design group	54.10 Battery, power supply, voltage converter
Date	06-02-2017
Validity	MFA (BR117/ BR156/ BR176/ BR242/ BT246)
Reason for change	
Reason for block	

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### Complaint:

Vehicle does not start, battery discharged.

For the analysis/identification of the cause, the following documents are required:

1. Quick test
2. SAM control unit log
3. Bus keepawake event detection (from EIS --> Actual values)
  - 3.1. Last bus keepawake entry
  - 3.2. Last-but-one bus keepawake entry
4. Instrument cluster control unit log
5. Up-to-date quiescent current measurement

### 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 for option code 807.

### 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

# XENTRY TIPS

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## Cause 2:

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

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

## Cause 3:

Under analysis; If complaint is not identified in Cause 1 or Cause 2 please open a PTSS case with the documents listed above.

## Remedy:

### Remedy 1:

Remedy not yet available. Do not replace any parts

Remedy with cleanpoint will be published.

Report all cases

Damage code: 54201-54

### Remedy 2:

Refer to LI82.85-P-066086

Damage code: 8209Z-90

### Remedy 3:

Remedy not yet available; If complaint is not resolved in Remedy 1 or Remedy 2 please open a PTSS case with the documents listed above.

<b>Symptoms</b>
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