

Vehicle does not start

Topic number	LI54.10-P-068383
Version	3
Function group	54.10 Battery, power supply, voltage converter
Date	08-09-2018
Validity	Model 453 (smart electric drive)
Reason for change	Update to IC Warning Message Images to Include English Text
Reason for block	

Complaint:

Vehicle does not start or HV warning in instrument cluster (see attachment) with 12 V battery sufficiently charged. After bus idle, the fault is no longer reproducible.

1. Control unit 'N127 - Powertrain control unit (PTCU)' contains the fault code P044196 (The high-voltage battery module has an internal battery insulation fault. The signal from the measuring instrument for the insulation resistance is implausible).
2. No fault code stored in a relevant control unit.

Attachments	
File	Description
Do Not Tow Vehicle with Wheels on Ground.jpg	IC Warning Message 1 - Do Not Tow Vehicle with Wheels on Ground
Stop Switch Off Motor.jpg	IC Warning Message 2 - Stop Switch Off Motor

Cause:

The insulation resistance meter in control unit N82/2 - Battery management system (BMS) responds too sensitively.

Remedy:

Do not replace any parts. Currently, we are awaiting the release of software for the 'Control unit N82/2 - Battery management system (BMS)' to potentially resolve this complaint without having to complete the measures outlined below.

Note:

This fault occurs rarely and frequent starting problems on the same vehicle are unlikely. In the event of any starting problems:

- 1) The vehicle should be locked with the key from outside.
- 2) Wait 5 min. after locking the vehicle from the outside (to wait for CAN bus idle) and then start the vehicle again.

Symptoms
Power generation / Engine management / Engine start/stop / Does not start
Overall vehicle / Power supply / High-voltage on-board electrical system / High-voltage battery / Malfunction
Overall vehicle / Power supply / High-voltage on-board electrical system / High-voltage battery / Display message

XENTRY TIPS

Control unit/fault code		
Control unit	Fault code	Fault text
N127 - Control unit 'Powertrain' (PTCU) (EVC453)	P044196	There is a battery-internal isolation fault in the high-voltage battery module. The signal from the measuring instrument for the insulation resistance is implausible.

Attachments

Do Not Tow Vehicle with Wheels on Ground.jpg:

 lights up.
Do Not Tow Vehicle with Wheels on Ground appears.

Drive system or high-voltage electrical system is malfunctioning.

- ▶ Have the vehicle transported by a qualified specialist workshop.
- ▶ Do not tow away the vehicle on its own wheels.

XENTRY TIPS

Stop Switch Off Motor.
jpg:



 Red warning lamp lights up.

Stop Switch Off Motor appears.

High-voltage electrical system, engine or high-voltage battery is malfunctioning.

- ▶ Switch off the engine.
- ▶ Do not drive on.
- ▶ Consult a qualified specialist workshop.
- ▶ Do not tow away the vehicle on its own wheels.