

12 V battery discharged - Vehicle does not start

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Version	1
Function group	54.10 Battery, power supply, voltage converter
Date	01-31-2018
Validity	BR453 electric car (battery electric vehicles (bev)) 453.091, 453.391, 453.491
Reason for change	
Reason for block	

Complaint:

12 V battery discharged - Vehicle does not start

ONLY affects 453 smart electric vehicles!!

Cause:

If the customer fails to turn off the vehicle's lights by leaving the rotary light switch left in the "ON" position, the in-vehicle CAN network will not go in to an idle state.

Even though after five minutes in the "ON" position the lights turn off automatically, the CAN network will remain awake creating a high quiescent current draw and cause the 12 V battery to discharge.

Remedy:

Remind the customer never to leave their vehicle lights in the "ON" position when exiting the vehicle. The customer should use the "Auto" position instead of the "ON" position.

A solution in the form of new software is currently in development that will help prevent battery discharge if the customer leaves the lights on after exiting the vehicle.

Until the new software is released, please follow Xentry for proper 12 volt electrical system and 12 volt battery diagnosis.

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

Control unit/fault code		
Control unit	Fault code	Fault text
N10/11 - Signal acquisition and actuation module (Driver-side SAM) (EMM453)	-	-

