

Battery discharge in vehicles with KEYLESS-GO

Topic number	LI54.10-P-051681
Version	2
Design group	54.10 Battery, voltage supply, voltage converter
Date	02-12-2013
Validity	Models 172, 212, 218 with code 889 (KEYLESS GO)
Reason for change	Models 172 and 218 added under Validity
Reason for block	

Complaint:

Vehicle battery discharged and/or vehicle cannot be unlocked and locked. The memory entry of the bus keepawake detection function lists the cause as the KEYLESS-GO control unit AND simultaneously displays the status of ignition circuit 15C.

The cause described below applies on when the two values appear in the memory entry simultaneously!

Cause:

Software error in the electronic ignition lock (EZS). When a CAN wakeup event occurs, a faulty EZS detects a reset instead of a wakeup event, and initiates a circuit restoration sequence. In vehicles with KEYLESS-GO this can cause the EZS to signal current at circuit 15 if there is a key present in the vehicle. When the key is no longer in the vehicle, the EZS switches the circuits correctly again and then changes to bus idle. However, in this case the KEYLESS-GO control unit does not switch off circuit 15 and keeps the bus awake.

The cause described above only affects the EZS with part numbers:

A 212 905 54 00

A 212 905 56 00

Remedy:

In order to clearly identify the fault, use Xentry Diagnostics to access the EZS control unit and perform the following test procedure!

EZS - Special procedures - Guided test of drive authorization system.

This additional test procedure is available online immediately with add-on 1745.

Note: Print out the results of the test and enclose with the components returned to the warranty inspection center together with the diagnosis printout of the bus keepawake unit detection function!

Symptoms
Overall vehicle / Safety and locking system / Locks/locking/Remote closing mechanism / Does not open
Overall vehicle / Safety and locking system / Locks/locking/Remote closing mechanism / Does not close
Overall vehicle / Power supply / Battery/On-board electrical system / Battery function / Battery discharges

Validity		
Vehicle	Engine	Transmission
172.447	*	*

172.448	*	*
172.457	*	*
212.002	*	*
212.003	*	*
212.005	*	*
212.020	*	*
212.023	*	*
212.024	*	*
212.025	*	*
212.041	*	*
212.047	*	*
212.048	*	*
212.052	*	*
212.053	*	*
212.054	*	*
212.055	*	*
212.056	*	*
212.057	*	*
212.059	*	*
212.072	*	*
212.073	*	*
212.074	*	*
212.077	*	*
212.080	*	*
212.082	*	*
212.087	*	*
212.088	*	*
212.089	*	*
212.090	*	*
212.091	*	*
212.093	*	*
212.147	*	*
212.148	*	*
212.154	*	*
212.202	*	*
212.203	*	*
212.205	*	*
212.220	*	*
212.223	*	*
212.224	*	*
212.225	*	*
212.247	*	*
212.248	*	*

212.254	*	*
212.255	*	*
212.256	*	*
212.257	*	*
212.259	*	*
212.272	*	*
212.273	*	*
212.274	*	*
212.277	*	*
212.280	*	*
212.282	*	*
212.287	*	*
212.288	*	*
212.289	*	*
212.291	*	*
212.293	*	*
218.303	*	*
218.323	*	*
218.355	*	*
218.359	*	*
218.373	*	*
218.374	*	*
218.391	*	*