
Vehicle does not perform automatic engine stop

Topic number	LI54.10-P-053538
Version	1
Design group	54.10 Battery, voltage supply, voltage converter
Date	04-05-2012
Validity	Model series 169, 245 with SA code B01 Model series 204 with SA code B03 Model series 172 with SA code B03
Reason for change	Function test modified
Reason for block	

Complaint:

The vehicle does not perform the automatic engine stop although the ECO function was activated via the ECO button

Cause:

Battery sensor transmitting incorrect temperature value

The temperature value and/or voltage value transmitted by the battery sensor is constant and does not change

Remedy:**IMPORTANT:**

- On no account should the sensor be de-energized prior to the test, i.e. do not disconnect the ground terminal on the battery, otherwise a reset will occur and the result of the function test will be inaccurate.
- Sensors that previously transmitted a constant temperature value could then become OK temporarily, i.e. the fault will not be rectified!

Function test of battery sensor:**a) Check the temperature value:**

A battery sensor that transmits a constant temperature value of -40°C or $+120^{\circ}\text{C}$ must be replaced.

A battery sensor that transmits a constant value between -40°C and $+120^{\circ}\text{C}$ must be tested as follows:

- Required aids:

- Xentry
- Multimeter capable of measuring temperatures

1. Measure the ambient temperature at which the vehicle has been kept for some time (e.g. the outside temperature if the vehicle has been standing outdoors for some time)

2. Measure the outside temperature of the battery on the negative terminal clamp directly at the IBS using a suitable measuring instrument

3. Using Xentry, read out the current battery temperature: - Select BSN – Battery sensor (B95) # Current data of battery sensor # Battery temperature

- Compare these three temperatures, the ambient temperature, the temperature at the battery negative terminal and the battery temperature (from Xentry),

taking into account a tolerance range of $\pm 3^{\circ}\text{C}$.

- Repeat the test after approx. 30 min in order to rule out delayed reaction of the battery sensor to temperature changes.

If the value transmitted by the battery sensor is outside the tolerance, the battery sensor must be replaced.

b) Check the transmitted voltage value:

- Start the engine. Does the voltage value measured by the battery sensor change?
- If the transmitted voltage value remains constant, the battery sensor must be replaced.

Symptoms

Engine start/stop / Power generation / Engine management / Engine does not turn off /

Work units

Op. no.	Operation text	Time	Damage code	Note
54-1111	REPLACE BATTERY SENSOR (AFTER CHECK)		53020 73	

Validity

Vehicle	Engine	Transmission
169.031	*	*
169.032	*	*
169.033	*	*
169.034	*	*
169.331	*	*
169.332	*	*
169.333	*	*
169.334	*	*
204.000	*	*
204.001	*	*
204.002	*	*
204.003	*	*
204.006	*	*
204.007	*	*
204.008	*	*
204.022	*	*
204.023	*	*
204.025	*	*
204.041	*	*
204.044	*	*
204.045	*	*
204.046	*	*
204.047	*	*
204.048	*	*
204.049	*	*
204.052	*	*
204.054	*	*

XENTRY

204.055	*	*
204.056	*	*
204.057	*	*
204.065	*	*
204.077	*	*
204.080	*	*
204.081	*	*
204.082	*	*
204.085	*	*
204.087	*	*
204.088	*	*
204.089	*	*
204.092	*	*
204.200	*	*
204.201	*	*
204.202	*	*
204.203	*	*
204.207	*	*
204.208	*	*
204.222	*	*
204.223	*	*
204.225	*	*
204.241	*	*
204.245	*	*
204.246	*	*
204.247	*	*
204.248	*	*
204.249	*	*
204.252	*	*
204.254	*	*
204.256	*	*
204.257	*	*
204.277	*	*
204.282	*	*
204.289	*	*
204.292	*	*
204.302	*	*
204.303	*	*
204.347	*	*
204.349	*	*
204.357	*	*
204.377	*	*
204.388	*	*

XENTRY

245.231	*	*
245.232	*	*
245.233	*	*
245.234	*	*
SLK (172)	*	*