

Insufficient heat output

Topic number	LI83.20-P-067708
Version	1
Function group	83.20 Heating
Date	02-14-2018
Validity	BR 453 EV
Reason for change	
Reason for block	

Complaint:

Insufficient heat output regardless of battery charge and drive program (ECO on/off).

Cause:

The vehicle system has been entirely adapted in favor of electrical range. For this reason, the auxiliary electrical consumers are flexibly switched on and off. If the vehicle is in ECO mode, the heat output is reduced slightly (also refer to the owner's manual). When the SOC is < 10%, the PTC heater booster is switched off completely to increase the electrical range of the vehicle.

Remedy:

In order to be able to rule out an actual fault, it is necessary to check both the heat output of the PTC and the interior temperature sensor (test prerequisite SOC >50%:

1. Read out output values of PTC (set for max. heating and max. blower setting; ECO off; outside temperature <5 degrees Celsius; wait at least 10 min until values have stabilized) using XENTRY (actual value no. 106): TARGET: 2 - 4 kW
2. Compare temperatures from interior temperature sensor using XENTRY and external thermometer in vicinity of overhead control panel: Max. variation 1-2 C

Symptoms
Body / Air conditioning / Heater / Insufficient heat output