Fault code 0907

Load management operation on vehicle electrical system/DME control module

Diagnostic conditions

- Ignition on
- Internal control module function test
- Load management is coded
- Engine running
- Engine speed approx. 2000 1/min.

Possible causes of fault

- 'no display' Loads are/were switched off temporarily. The load management operation was enabled because of undervoltage.

Note!

The DME control module receives the analogue signal from terminal 'DF' on the generator and sends the evaluated information to the CAN drive. The vehicle electrical system control module determines the situation of the vehicle electrical system based on the battery voltage, the 'DF signal' received via the CAN comfort and the heavy-current loads with short operating time. A fault is detected and a fault bit is set if the 'DF signal' falls below a defined value during a critical vehicle electrical system state. If the fault bit remains set for more than ten seconds, the fault 'Load management operation on vehicle electrical system/DME control module' is stored in the fault memory of the vehicle electrical system control module.

Affected pins

Plug 'A' on vehicle electrical system control module:

- Pin 1 'CAN comfort (high)'
- Pin 2 'CAN comfort (low)'

Diagnosis/troubleshooting

Work instruction			Display OK	If not OK
1	Check battery:		Battery okay. ⇒ Step 2	Battery not OK. → Replace battery. → End
2	Check charge voltage/current on three-phase generator:	• Vehicle engine speed approx. 2000 1/min.	11.4 - 14.4 V ⇒ Step 3	Wiring/regulator or diodes faulty. Repair wires or generator. → End
3	Check DF line for short circuit to B+:	♦ Switch off the ignition. ♦ Pull out plug 'A' on SME control module. ♦ Pull out plug 'A' on generator. ♦ Switch on ignition. ♦ Measure voltage in SME control module plug'A' 'Pin 28' to ground.	< 0.3 V ⇒ Step 4	Repair / replace wiring harness → End
4	Check DF line for short circuit to ground:	♦ Switch off the ignition. ♦ Measure resistance in SME control module plug 'A' 'Pin 28' to ground.	∞ Ω ⇒ Step 5	Repair / replace wiring harness → End
5	Check DF line for open circuit:	♦ Measure resistance between SME control module plug 'A' 'Pin 28' and generator plug 'A' 'Pin 2'.	< 5 Ω ⇒ Step 6	Repair / replace wiring harness → End
6	CAN test: • Carry out test according to checking instructions/CAN data bus (Rep. Gr. 9700):		→ End	