

**CHECK ENGINE indicator lamp (MIL) permanently lit -
Fault code U0002 (ME7_451) and/or U0122 (TCU_451)**

Topic number	LI54.30-P-054004
Version	2
Design group	54.30 Instrument cluster/display instruments/warning devices
Date	10-16-2012
Validity	Model 451.3/4
Reason for change	Additional note added for accessories connected directly to circuit 15.
Reason for block	

Complaint:

The CHECK ENGINE indicator lamp (MIL) shines constantly in the instrument cluster.

The fault code U0002 (ME7_451 engine control unit) and/or U0122 (TCU_451 transmission control unit) are current or stored in the corresponding control unit.

Cause:

Electrical feedback from a battery-powered accessory (navigation unit, mobile phone charger etc.) being operated via the 12V socket (cigarette lighter) or connected directly to circuit 15 in the vehicle can cause a fault code entry in the engine control unit (ME7_451) and/or the transmission control unit (TCU_451).

Remedy:

This remedy applies only for accessories operated via the 12V socket.

The installation of a diode in the power supply of the 12V socket allows these accessories to be operated in the vehicle without a reoccurrence of the fault entry.

Perform the following steps:

- Remove center support paneling
- Disconnect 12V socket
- Install diode in power supply of 12V socket as described in "Attachment 1"

This remedy DOES NOT apply for accessories connected directly to circuit 15!

Attachments	
File	Designation
Anhang_1.pdf	Installation instructions

Symptoms

Power generation / Engine management / Engine management indicator lamp / Engine diagnosis / lit
Overall vehicle / Networking / CAN/FlexRay communication / Malfunction

Control unit/fault code		
Control unit	Fault code	Fault text
N3/10 (ME-SFI [ME] control unit) (ME7_451)	U0002	Drive train CAN bus OFF fault
N15/6 (Sprintshift control module) (TCU_451)	U0122	Event:No or incorrect CAN message from control unit N47-5 (ESP control unit)

Parts							
Part number	ES1	ES2	Designation	Quantity	Note	EPC	Other make part
A 000 980 04 24			Diode module parts kit	1		X	

Work units				
Op. no.	Operation text	Time	Damage code	Note
54-6515	RETROFIT DIODE FOR 12V SOCKET WIRING HARNESS	5AW (0,4 h)		

Validity		
Vehicle	Engine	Transmission
451.300	*	*
451.301	*	*
451.330	*	*
451.331	*	*
451.332	*	*
451.333	*	*
451.334	*	*
451.380	*	*
451.400	*	*
451.401	*	*
451.431	*	*
451.432	*	*
451.433	*	*
451.480	*	*