XENTRY

Engaging gear is occasionally not possible

Topic number	LI26.60-P-055839
Version	2
Design group	26.60 Gearshift
Date	03-05-2013
Validity	Model series 451.xxx between VIN WME4513011K504485 and WME4514012K633260
Reason for change	
Reason for block	

Complaint:

Transmission cannot be shifted, and at least one of the following complaints applies:
- Check Engine lamp lights up
- ESP warning lamp lights up
- 3 bars in instrument cluster display
- The fault memory for the automated manual transmission (ASG) has stored the fault codes (FC) P2802 and P0707 and additional FCs.

Cause:

Contact resistance between plug contact to shift actuator

Remedy:

1. Disconnect plug connector for both shift actuator motors. Perform visual inspection. (Check connectors including latches, contacts, cable covering for damage) blow out connectors of shift actuator using compressed air with less than 1 bar, then connect again. Please note, that contact spray or contact grease must not be used.
2. Fix the electrical feed lines onto the shift actuator as shown in the figure (Annex 1) using cable tie.
3. Erase fault memory
4. Teach-in clutch and transmission.
5. Perform test drive

Attachments	
File	Designation
Schaltaktuator.jpg	Figure 1.

Symptoms
Power transmission / Manual transmission / Automated Manual Transmission, Sequentronic ASG / ASG function / Blocks
Power transmission / Manual transmission / Automated Manual Transmission, Sequentronic ASG / ASG function / Cannot be shifted
Power transmission / Manual transmission / Automated Manual Transmission, Sequentronic ASG / ASG function / Nonfunctional

Control unit/fault code

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Control unit	Fault code	Fault text
N15/6 (Sprintshift control module) (TCU_451)	P2802	The signals from the incremental sensor of component M17 (Gear motor) are implausible.
N15/6 (Sprintshift control module) (TCU_451)	P0707	The signals from the incremental sensor of component M17 (Gear motor) are implausible.

Parts

Part number	ES1	ES2	Designation	Quantity	Note	EPC	Other make part
A 002 997 24 90			Cable tie	2		X	

Work units

Op. no.	Operation text	Time	Damage code	Note
54-0765	CHECK WIRING HARNESS FOR SHIFT ACTUATOR		53223 73	Disconnect plug connector for both shift actuator motors. Perform visual inspection. (Check connectors including latches, contacts, cable covering for damage) blow out connectors of shift actuator using compressed air with less than 1 bar, then connect again. Please note, that contact spray or contact grease must not be used. Fix the electrical feed lines onto the shift actuator as shown in the figure (Annex 1) using cable tie.

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	*	*

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451.480	*	*

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