

7G-DCT: FC 051300 in fault memory after voltage fluctuations in on-board electrical system

Topic number	LI54.21-P-064054
Version	1
Design group	54.21 Control modules/modules
Date	05-10-2016
Validity	All vehicles in MFA model series (BR117, BR156, BR176, BR242, BR246) with 7G-DCT transmission 724.0 with VGS2 transmission control unit: VGS2 transmission control unit can be identified through following numbers in quick test: MB object number for hardware: 005 446 36 10 or 005 446 37 10 Production month for vehicle later than 12/2013 (VGS2 first use)
Reason for change	Country distribution adapted again
Reason for block	

Complaint:

Gear range P cannot be disengaged after voltage fluctuations occurred in on-board electrical system (e.g. after extended idle time for vehicle or as consequence of a dead battery). If necessary, fault codes that refer to an undervoltage may be stored in various control unit in a quick test.

Basic adaptation for transmission cannot be performed.

FC 051300 active or stored in transmission control unit.

The following fault message is shown in XENTRY in the dual clutch transmission control unit in the actual values display for the drive authorization values for all menu items "Fault: Error details: Conditions not correct" (Examples in Attachment).

Attachments	
File	Description
XENTRY Werte Fahrberechtigung DKG.pdf	XENTRY fault message when drive authorization values shown in dual clutch transmission control unit
XENTRY Drive authorization values DKG.pdf	XENTRY screen for drive authorization values in dual clutch transmission control unit

Cause:

Drive authorization values in control unit for 7G-DCT transmission.

Remedy:

Replace transmission control unit. Please refer to P-B-27.00/128 before ordering.

Symptoms

XENTRY TIPS

Power transmission / Function / No power flow
Power transmission / Automatic transmission / Function / No power flow
Power transmission / Automatic transmission / Automatic transmission operation / Drive position selection / Function / Blocks
Power transmission / Automatic transmission / Function / Electrical fault/Fault code
Power transmission / Automatic transmission / Automatic transmission operation / Drive position selection / Function / Gear cannot be engaged
Power transmission / Automatic transmission / Automatic transmission operation / Drive position selection / Function / Nonfunctional
Power transmission / Automatic transmission / Automatic transmission operation / Drive position selection / Function / Electrical fault/Fault code

Control unit/fault code		
Control unit	Fault code	Fault text
N15/13 - Electronic transmission control for double-plate clutch transmission (DKG) (DCT)	051300	The start enable was not issued. _

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 000 270 36 00			Controller unit parts kit	1	VGS2 with DAS3	X
A 000 270 39 00			Controller unit parts kit	1	VGS2 with DAS4	X

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
			54553 81	