

Transmission intermittently fails to shift, vehicle jolts in higher gears. FC 92177 or FC 92100 is stored.

Topic number	LI27.60-P-058317
Version	2
Design group	27.60 Gearshift, control
Date	03-04-2014
Validity	Vehicles of model series 246, 176, 117 with automatic transmission 7G-DCT
Reason for change	Dual clutch transmission software update with subsequent normalization and adaptation
Reason for block	

Complaint:

Transmission intermittently fails to shift, vehicle jolts in higher gears.

The dual clutch transmission (DKG) control unit contains the stored FC 92177 or FC 92100 ("The shift valve of the internal shaft has a malfunction. The commanded position cannot be reached").

In the extended fault freeze frame data it can be seen that this fault was set in 7th gear - see Figure 1 in attachment.

Attachments	
File	Designation
Bild 1.pdf	Figure 1

Cause:

The stored values of 7th gear may have been taught in incorrectly.

Remedy:

If one of the specified fault codes is set, the latest DKG software must be flashed with DVD 09/13. Normalization and adaptation must then be performed.

If the latest DKG software is already installed in the transmission control unit, perform only the normalization and adaptation.

Modified software will be available with DVD 05/14.

Symptoms
Power transmission / Automatic transmission / Automatic transmission - function / Shifts
Power transmission / Automatic transmission / Automatic transmission - function / Shudders
Power transmission / Automatic transmission / Automatic transmission - function / Shifting is not performed or is delayed

Control unit/fault code

Control unit	Fault code	Fault text
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	092177	The shift valve of the inner shaft has a malfunction. The commanded position cannot be reached.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	092100	The shift valve of the inner shaft has a malfunction. The commanded position cannot be reached.

Work units				
Op. no.	Operation text	Time	Damage code	Note
			54553 90	Transmission control unit - Update software

Validity		
Vehicle	Engine	Transmission
117.303	651.930	724
117.342	270	724.002
117.343	270	724.002
117.344	270	724.003
176.000	651	724.003
176.001	651	724.003
176.003	651	724.003
176.007	651	724.003
242.848	270	724.003
246.242	270	724.002
246.243	270	724.003
246.243	270	724.002
246.244	270	724.003
A (176)	270	724
B (242, 246)	651	724