

**Vehicle fails to shift into 6th gear at high speeds.
Shift quality complaints in the even gears 2, 4, 6.**

Topic number	LI27.51-P-057719
Version	4
Design group	27.51 Clutch assembly, multi-disk brake
Date	04-10-2015
Validity	Vehicles of model series 246, model series 176 and model series 117 with automatic transmission 7G-DCT and engine M133 or M270. The following transmission sequence numbers may be affected: 220 400 - 330 000.
Reason for change	Repair method adapted
Reason for block	

Complaint:

At high engine speeds (higher than 5500 rpm) and very high vehicle speeds (exceeding 120 mph), the vehicle does not shift from 5th into 6th gear.

After this high speed event occurrence:

- Shifting quality complaints at following upshifts can be reproduced: 1-2, 3-4, 5-6
- While driving, the fault message "Reverse gear not available" is displayed in the instrument cluster.
- Reverse gear can be engaged again after an ignition reset.

Cause:

Increased drag torque on K2 clutch.

Remedy:

Replace the dual clutch pack.

Symptoms
Power transmission / Power transmission, function / No power flow
Power transmission / Automatic transmission / Automatic transmission - function / General
Power transmission / Automatic transmission / Automatic transmission - function / No power flow
Power transmission / Automatic transmission / Automatic transmission - function / Shifts
Power transmission / Automatic transmission / Automatic transmission - function / Poor shift quality

Control unit/fault code		
Control unit	Fault code	Fault text
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	092500	The shift valve of the hollow shaft has a malfunction. _

DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	092577	The shift valve of the hollow shaft has a malfunction. The commanded position cannot be reached.
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Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 246 250 09 01			Double Clutch Pack		Always Check EPC for correct parts	X
A 246 250 07 01			Double Clutch Pack		Always check EPC for correct parts	X
A 006 990 95 82			Compensating Disc		0.8 mm See WIS for correct Size	X
A 006 990 96 82			Compensating Disc		1.0 mm See WIS for correct size	X
A 006 990 97 82			Compensating Disk		1.2 mm See WIS for correct size	X
A 006 990 98 82			Compensating Disc		1.4 mm See WIS for correct size	X
A 006 990 99 82			Compensating Disc		1.6 mm See WIS for correct size	X
A 007 990 00 82			Compensating Disc		1.8 mm See WIS for correct size	X
A 007 990 01 82			Compensating Disc		2.0 mm See WIS for correct size	X
A 010 990 64 82			Compensating Disc		2.2 mm See WIS for correct size	X
A 010 990 65 82			Compensating Disc		2.4 mm See WIS for correct size	X
A 010 990 66 82			Compensating Disc		2.6 mm See WIS for correct size	X
A 246 370 01 21			Cover F Housing		Always check EPC for correct parts	X

Work units				
Op. no.	Operation text	Time	Damage code	Note
			2720G F4	Dual clutch
54-0650	MAINTAIN VOLTAGE			
54-1011	QUICK TEST			
83-1762	A/C DRAIN & FILL			
61-1069	BELLY PANS			
54-7984	GROUND ENGINE >BODY			
54-7986	GROUND TRANS >BODY			
01-2800	ENGINE TRANS ASSY R&R			
27-2110	DEFLANGE TRANS			
27-4220	REPLACE DUAL CLUTCH			

27-1255	CORRECT TRANS FLUID OIL LEVEL			
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Validity		
Vehicle	Engine	Transmission
117.342	270	724
117.343	270	724
117.344	270	724
117.346	270	724
117.352	133	724.015
176.042	270	724
176.043	270	724
176.044	270	724
176.046	270	724
242.848	270	724
246.242	270	724
246.243	270	724
246.244	270	724
246.247	270	724
A (176)	133	724.015