

If the fault codes listed below are present, the VGS (fully integrated transmission control) must be replaced.

Topic number	LI27.00-P-057408
Version	2
Design group	27.00 General
Date	04-25-2014
Validity	Vehicles of model series 246, 176, 117 with automatic transmission 7G-DCT
Reason for change	FC adjusted --> 061B00
Reason for block	

**Complaint:**

If the following fault codes are present 060700, 066601, 06662F, 066664, 06A600, 06A700, 06A800, 06A900, 06AB01, 06D500, 70246, 071001, 07102F, 071064, 071501, 79101, 081C00, 081C01, 084001, 084501, 092001, 092401, 274501, 66600, 066700, 071000, 071100, 071400, 079100, 84000, 084500, 267F00, 274500, 283100, 283600, 283B00, 284000, 06AB00, 070200, 71600, the VGS (fully integrated transmission control) must be replaced.

**Cause:**

Various faults in transmission control unit.

**Remedy:**

If one of the above fault codes is logged in the control unit, Star Diagnosis automatically initiates the guided test and indicates that the EHS must be repaired. All the necessary characteristics are read out of the installed control unit automatically. In the case of repairs, the transmission control unit is replaced using the repair kit A000 270 27 00.

It is essential to make sure that the same Star Diagnosis unit is used for the entire repair because the transferred characteristics are stored on it.

Before performing the EHS repair, the WIS description AR27.19-P-0212NKB must be read.

<b>Symptoms</b>
Power transmission / Automatic transmission / Automatic transmission - function / Electrical fault/Fault code

Control unit/fault code		
Control unit	Fault code	Fault text
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	060700	The control unit has a malfunction.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	06D500	Output 5 of the reference voltage for sensors has a malfunction.

DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	070246	There is an internal error in the EEPROM of the control unit.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	071001	Transmission oil temperature sensor 1 has an electrical fault. There is a general electrical fault.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	07102F	Transmission oil temperature sensor 1 has an electrical fault. There is an erratic signal.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	071064	Transmission oil temperature sensor 1 has an electrical fault. There is an implausible signal.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	071501	The rpm sensor 'Turbine wheel' has an electrical fault. There is a general electrical fault.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	079101	Rpm sensor 1 has an electrical fault.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	081C00	Position sensor "Park pawl" has an electrical fault.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	081C01	Position sensor "Park pawl" has an electrical fault. There is a general electrical fault.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	084001	Oil pressure sensor "A" has an electrical fault. There is a general electrical fault.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	066601	The internal temperature sensor of the control unit has an electrical fault. There is a general electrical fault.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	084501	Oil pressure sensor "B" has an electrical fault. There is a general electrical fault.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	092001	The shift valve of the inner shaft has an electrical fault or open circuit. There is a general electrical fault.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	274501	Rpm sensor 2 has an electrical fault.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	066600	The internal temperature sensor of the control unit has an electrical fault. There is a general electrical fault.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	066700	The internal temperature sensor of the control unit has an electrical fault. There is an implausible signal.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	071000	Transmission oil temperature sensor 1 has an electrical fault. There is a general electrical fault.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	071100	Transmission oil temperature sensor 1 has an electrical fault. There is an implausible signal.

DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	071400	Transmission oil temperature sensor 1 has an electrical fault. There is an erratic signal.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	079100	Rpm sensor 1 has an electrical fault.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	084000	Oil pressure sensor "A" has an electrical fault. There is a general electrical fault.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	06662F	The internal temperature sensor of the control unit has an electrical fault. There is an erratic signal.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	084500	Oil pressure sensor "B" has an electrical fault. There is a general electrical fault.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	267F00	The internal temperature sensor of the control unit has an electrical fault. There is an erratic signal.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	274500	Rpm sensor 2 has an electrical fault.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	283100	The shift valve of the hollow shaft has an electrical fault or open circuit. There is a general electrical fault.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	283600	The shift valve of the hollow shaft has an electrical fault or open circuit. There is a general electrical fault.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	283B00	The shift valve of the inner shaft has an electrical fault or open circuit. There is a general electrical fault.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	284000	The shift valve of the inner shaft has an electrical fault or open circuit. There is a general electrical fault.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	070200	There is an internal error in the EEPROM of the control unit.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	071600	The rpm sensor 'Turbine wheel' has an electrical fault. There is a general electrical fault.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	092401	The shift valve of the hollow shaft has an electrical fault or open circuit. There is a general electrical fault.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	066664	The internal temperature sensor of the control unit has an electrical fault. There is an implausible signal.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	06AB00	Internal temperature sensor 2 of the control unit has an electrical fault. There is a general electrical fault.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	06A600	Output 1 for the reference voltage of the sensors has a malfunction.

DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	06A900	Output 4 for the reference voltage of the sensors has a malfunction.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	06A800	Output 3 for the reference voltage of the sensors has a malfunction.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	06A700	Output 2 for the reference voltage of the sensors has a malfunction.
DKG - Electronic transmission control for double-plate clutch transmission (N15/13) (DCT)	06AB01	Internal temperature sensor 2 of the control unit has an electrical fault. There is a general electrical fault.

Parts							
Part number	ES1	ES2	Designation	Quantity	Note	EPC	Other make part
A 000 270 27 00			CONTROLLER UNIT	1	The intake and oil filters must be ordered separately.	X	

Work units				
Op. no.	Operation text	Time	Damage code	Note
			54553 73	Transmission control unit - Electrical fault

WIS-References			
Document number	Title	Note	Allocation
AR27.19-P-0212NKB	Remove/install control solenoid valves of electric controller unit	Repair kit	Remedy

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

# XENTRY

176.042	270	724
176.043	270	724
176.044	270	724
176.046	270	724
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
B (242, 246)	651	724