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Shift quality complaints and/or automatic transmission in limp-home mode in combination with fault codes P060600, P072000, P072200, P072300, P072364, P072900, P073000, P073100, P073200, P073300, P073400, P073500, P076F00

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Topic number	LI27.50-P-056467
Version	7
Design group	27.50 Gear assembly
Date	01-07-2014
Validity	Model series 231 and X 218 with CODE 803 Model series 166, X204, model series 207, model series 212, model series 218 and model series 231 with CODE 804
Reason for change	Remedy adapted.
Reason for block	

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#### Complaint:

Shift quality complaints and/or automatic transmission in limp-home mode in combination with one or more of the following fault codes: P060600, P072000, P072200, P072300, P072364, P072900, P073000, P073100, P073200, P073300, P073400, P073500, P076F00.

#### Cause:

The output speed sensor can wander out of the signal trigger range due to mechanical vibrations. Under certain circumstances this can result in a failure to register the output speed of the automatic transmission until the next ignition cycle.

#### Remedy:

The following Xentry Diagnostics add-ons must be installed for the following remedies:

- Add-on 2889, 2908 and 2938 for DVD 05/2013
- Add-on 2909 and 2939 for DVD 07/2013

Before carrying out the remedies, please check the corresponding vehicle data card for the necessary CODE (all specified code conditions must be fulfilled simultaneously).

Remedy for vehicles with CODE 804, without CODE 32A, without CODE 35A, without CODE 01A, or model series 231 with CODE 803:

If the fully integrated transmission control (VGS) has no faults other than those listed, update the software of the automatic transmission.

If faults indicating a defective integrated transmission control module (VGS) other than the above exist, install a VGS repair kit A 000 270 35 00 and then update the software of the automatic transmission.

Remedy for vehicles with CODE 804, with CODE 01A, without CODE 32A, without CODE 35A, or X218 with CODE 803:

If the fully integrated transmission control (VGS) has no faults other than those listed, update the software of the automatic transmission.

If faults indicating a defective integrated transmission control module (VGS) other than the above exist, install a VGS repair kit A 000 270 34 00 and then update the software of the automatic transmission.

**Remedy for vehicles with CODE 804, with CODE 32A, without CODE 01A:**

Install the fully integrated transmission control repair kit A 000 270 35 00 and update the software of the automatic transmission.

**Remedy for vehicles with CODE 804, with CODE 32A, with CODE 01A:**

Install the fully integrated transmission control repair kit A 000 270 34 00 and update the software of the automatic transmission.

**Supplementary information:**

If no fault codes are present, VGS repair should only be performed if requested by the technical market support department. In this case, you will receive information on emergency start of the repair procedure from the technical market support department. Create a PTSS case and attach:

- Initial Quicktest
- VGS Control Unit Log
- EEPROM in \*.log file format

Symptoms
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 / Electrical fault/Fault code
Power transmission / Automatic transmission / Automatic transmission - function / Poor shift quality

Control unit/fault code		
Control unit	Fault code	Fault text
VGS - Fully integrated transmission control (Y3/8n4) (VGS4NAG2)	P060600	Component 'Y3/8n4 (Fully integrated transmission control control unit)' is defective.
VGS - Fully integrated transmission control (Y3/8n4) (VGS4NAG2)	P073400	Gear 4 is implausible or the transmission is slipping. _
VGS - Fully integrated transmission control (Y3/8n4) (VGS4NAG2)	P073500	Gear 5 is implausible or the transmission is slipping. _
VGS - Fully integrated transmission control (Y3/8n4) (VGS4NAG2)	P076F00	Gear 7 is implausible or the transmission is slipping. _
VGS - Fully integrated transmission control (Y3/8n4) (VGS4NAG2)	P072000	The rpm sensor 'Output shaft' has an electrical fault. _
VGS - Fully integrated transmission control (Y3/8n4) (VGS4NAG2)	P072200	The signal of rpm sensor "Output shaft" is missing. _
VGS - Fully integrated transmission control (Y3/8n4) (VGS4NAG2)	P072300	Rpm sensor "Output shaft" has a sporadic malfunction. _
VGS - Fully integrated transmission control (Y3/8n4) (VGS4NAG2)	P072364	Rpm sensor "Output shaft" has a sporadic malfunction. There is an implausible signal.
VGS - Fully integrated transmission control (Y3/8n4) (VGS4NAG2)	P072900	Gear 6 is implausible or the transmission is slipping. _

VGS - Fully integrated transmission control (Y3/8n4) (VGS4NAG2)	P073000	There is an impermissible transmission ratio. _
VGS - Fully integrated transmission control (Y3/8n4) (VGS4NAG2)	P073100	Gear 1 is implausible or the transmission is slipping. _
VGS - Fully integrated transmission control (Y3/8n4) (VGS4NAG2)	P073200	Gear 2 is implausible or the transmission is slipping. _
VGS - Fully integrated transmission control (Y3/8n4) (VGS4NAG2)	P073300	Gear 3 is implausible or the transmission is slipping. _

Parts							
Part number	ES1	ES2	Designation	Quantity	Note	EPC	Other make part
A 000 270 34 00			Fully integrated transmission control (VGS) repair kit	1	FBS3	X	
A 000 270 35 00			Fully integrated transmission control (VGS) repair kit	1	FBS4	X	

Work units				
Op. no.	Operation text	Time	Damage code	Note
27-2382	REPLACE SUPPORTING BODY OF ELECTRICAL KIT FOR AUTOMATIC TRANSMISSION		53377 73	Electrical fault in automatic transmission output shaft rpm sensor Should only be used if fully integrated transmission control (VGS) repair kit has been installed!!
54-0992	CODE AUTOMATIC TRANSMISSION CONTROL UNIT		53377 73	Electrical fault in automatic transmission output shaft rpm sensor Should only be used if fully integrated transmission control (VGS) repair kit has been installed!!
54-0991	INSTALL AUTOMATIC TRANSMISSION CONTROL UNIT SOFTWARE		54553 90	Transmission control unit software release
02-5058	CONNECT/DISCONNECT BATTERY CHARGER			
02-4762	CONNECT/DISCONNECT DIAGNOSTIC SYSTEM			

Validity		
Vehicle	Engine	Transmission
212.034	274	722

212.035	274	722
212.036	274	722
212.040	274	722
212.055	276	722
212.059	276	722
212.065	276	722
212.067	276	722
212.080	276	722
212.088	276	722
212.165	276	722
212.234	274	722
212.236	274	722
212.255	276	722
212.259	276	722
212.265	276	722
212.267	276	722
212.280	276	722
212.288	276	722
218.355	276.952	722.906
218.359	276.952	722.906
218.959	276.952	722.906
231.457	276.954	722.906
CLS (218)	278	722
CLS (218)	651	722
CLS (218)	642	722
E (207)	642	722
E (207)	276	722
E (207)	278	722
E (207)	651	722
E (207)	274	722
E (207)	271	722
E (212)	651	722
E (212)	278	722
E (212)	271	722
E (212)	642	722
GL (166)	278	722
GL (166)	642	722
GL (166)	276	722
GLK (204)	651	722
GLK (204)	642	722
GLK (204)	274	722
GLK (204)	276	722
GLK (204)	272	722

# XENTRY

M (166)	278	722
M (166)	642	722
M (166)	276	722
M (166)	651	722
SL (231)	278	722