

Automatic transmission limp-home mode, fault codes 0717, 0718,
 0722, 0723, 2200, 2201, 2204, 2205, 2206, 2207, 2767, 2768,
 P071700, P071800, P072200, P072300, P276700, P276800

Topic number	LI27.50-P-049710
Version	10
Design group	27.50 Gear assembly
Date	01-10-2014
Validity	Automatic transmission 722.9, it is not possible to repair the EHS (VGS) in AMG vehicles
Reason for change	Object number for VGS3 repair kit changed from A 000 270 17 00 to A 000 270 26 00: The repair kit with the new number does not include the oil filter, which must be ordered separately.
Reason for block	

Complaint:

Automatic transmission 722.9 switches to limp-home while driving (gearshifts no longer possible) and/or one or more of the following fault codes are stored or current:

For vehicles with VGS1

2200, 2201, 2204, 2205, 2206, 2207

For vehicles with VGS2 or VGS3

0717, 0718, 0722, 0723, 2767, 2768

For vehicles with VGS4 (with DAS3 or DAS4)

P071700, P071800, P072200, P072300, P276700, P276800

Cause:

Rpm sensor fault

Remedy:

For one or more of the following VGS1 fault codes:

2200, 2201, 2204, 2205, 2206, 2207

the complete EHS must always be replaced

For one or more of the following VGS2 or VGS3 fault codes:

0717, 0718, 0722, 0723, 2767, 2768

Process the rpm sensor fault code completely using the DAS/Xentry guided test (possible as of DVD 01/2011 and add-on 1740 or a later DVD version). This may entail a repair of the EHS. In this instance, Star Diagnosis automatically initiates the guided test and automatically reads out the adaptation data and characteristics from the old control unit.

For one or more of the following VGS4 (with DAS3 or DAS4) fault codes:

XENTRY

P071700, P071800, P072200, P072300, P276700, P276800

Please process the rpm sensor fault code completely using the DAS/Xentry guided test. This may entail a repair of the EHS. In this instance, Star Diagnosis automatically initiates the guided test and automatically reads out the adaptation data and characteristics from the old control unit.

If Star Diagnosis notifies you that the fault code can be ignored and deleted, then contrary to the previous procedure, a repair is no longer required!

The repair may only be performed using the EHS repair kit. Only the transmission control unit, which is bolted onto the electrohydraulic controller unit (EHS), is to be replaced.

If the repair is interrupted for any reason after reading out the adaptation data and characteristics from the old control unit, e.g. if the EHS repair kit is not available, then the data retrieved remains stored in Star Diagnosis unit until it is re-connected to the problem vehicle and the data is transferred automatically OR until an update of the Star Diagnosis unit is performed with a new DVD or add-on.

For additional information on all matters concerning the EHS repair, please see the Akubis direct film:

"Replacement of "fully integrated transmission control" (VGS) controller unit at electrohydraulic controller unit (EHS) on automatic transmission 722.9"

Please use damage code 53376 73 Sensor fault, internal transmission rpm, or 27257 73 Turbine rpm sensor.

Note: It is not possible to repair the EHS (VGS) in AMG vehicles

Symptoms
Power transmission / Automatic transmission / Automatic transmission - function / Limp-home mode
Power transmission / Automatic transmission / Automatic transmission - function / Electrical fault/Fault code

Parts							
Part number	ES1	ES2	Designation	Quantity	Note	EPC	Other make part
A 000 270 26 00	80		Controller unit repair kit	1	The oil filter has been deleted from the parts kit; please order the oil filter separately.	X	
A 000 270 29 00			Controller unit repair kit (VGS4 with DAS4)	1	Oil filter not included in repair kit; must be ordered separately.	X	
A 000 270 30 00			Controller unit repair kit (VGS4 with DAS3)	1	Oil filter not included in repair kit; must be ordered separately.	X	

Work units				
Op. no.	Operation text	Time	Damage code	Note
			27257 73	Turbine rpm sensor
			53376 73	Sensor fault, internal transmission rpm

XENTRY

WIS-References			
Document number	Title	Note	Allocation
AR27.19-P-0220B	Disassemble/assemble electrohydraulic controller unit	Repair kit	Remedy
AR27.19-P-0200W	Remove/install electrohydraulic controller unit (transmission installed)	Replacement of complete electrohydraulic controller unit	Remedy

Validity		
Vehicle	Engine	Transmission
*	*	722.901
*	*	722.902
*	*	722.903
*	*	722.904
*	*	722.906
*	*	722.907
*	*	722.950
*	*	722.960
*	*	722.961
*	*	722.962
*	*	722.964
*	*	722.965
*	*	722.998
*	*	722.999
*	*	722.963
*	*	722.996
*	*	722.997
*	*	722.908
218.903	651.924	722.908
218.923	642.853	722.903
218.923	642.852	722.903
218.959	276.952	722.906
218.973	278.922	722.909
218.991	278.922	722.967
218.993	642.858	722.966
218.993	642.854	722.966
SL (231)	276.954	722.906
SL (231)	278.927	722.909
SL (231)	279.981	722.932