

Fault message "AIRMATIC" or "Active Curve System" in instrument cluster

Topic number	LI32.34-P-056198
Version	6
Function group	32.34 Anti roll governor (WR)
Date	10-18-2017
Validity	MODEL 166 with CODE 468 (Active Curve System) MODEL 292 with CODE 468 (Active Curve System)
Reason for change	CP updated.
Reason for block	

Complaint:

1. Fault code P1C9B00 (The control unit 'Roll control' has a malfunction). Vehicles up to VIN 166 ### #A 097760 without code 803.
2. Fault code P1C9564 (The rotation direction valve of the torsion bar "Front axle" has a malfunction)
3. Fault code P1C9C00 (The oil pressure at the front axle is too low)
 Fault code P1C9E00 (The oil pressure at the rear axle is too low)

Cause:

- Re. 1. Monitoring of pressures in ACS is too sensitive.
- Re. 2. Mechanical fault of rotation direction valve in valve block at front axle.
- Re. 3. Oil level too low, air in system.

Remedy:

- Re. 1. Perform XENTRY update: Flash software A166 902 5904 in ACS control unit.
- Re. 2. Check production date of valve block at front axle.
- Production date prior to 24.06.2017 - Replace valve block, see picture 1.
- Production date as of 24.06.2017 - Please create a PTSS case.
- Re. 3. Bleed hydraulic system with XENTRY (to be found in the roll control unit under the heading "Actuations").
- These instructions must be strictly observed:
- Check hydraulic fluid fill level and correct if necessary
 - If foam forms in the reservoir during the bleeding process (picture 2), the bleeding routine must be interrupted until the foam has dissipated.
- When only air bubbles can be seen in the oil (picture 3), the bleeding routine can be continued.

XENTRY TIPS

Note: Excessive foaming can cause the system to draw in air bubbles.

Attachments	
File	Description
foam.JPG	Picture 2.
bubbles.jpg	Picture 3.
production date valveblock.jpg	Picture 1.

Symptoms
Chassis/suspension / Suspension/Dampening / Suspension System Function / Indicator lamp is on
Chassis/suspension / Suspension/Dampening / AIRMATIC / Display message / Air Suspension - Service Required
Chassis/suspension / Suspension/Dampening / AIRMATIC / Indicator lamp / lit
Chassis/suspension / Suspension/Dampening / Roll control / Nonfunctional
Chassis/suspension / Suspension/Dampening / Roll control / Regulates without obvious cause

Control unit/fault code		
Control unit	Fault code	Fault text
N51/6 - Roll control (ARS166)	P1C9E00	The oil pressure at the rear axle is too low. _
N51/6 - Roll control (ARS166)	P1C9564	The rotation direction valve of torsion bar "Front axle" has a malfunction. There is an implausible signal.
N51/6 - Roll control (ARS166)	P1C9C00	The oil pressure at the front axle is too low. _
N51/3 - AIRMATIC (SPC166) (GL/GLS (166),M/GLE (166))	P1C9B00	Control unit "Roll control" has a malfunction. _

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 001 989 24 03			Multigrade oil	1	As required	X
A 166 320 11 58			Front valve unit	1	As required and after production date 31.03.2017	X

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
32-6983	CHECK OIL LEVEL OF ACTIVE ROLL STABILIZATION, CORRECT (AFTER CHECK)		32707 S1	
54-0991	CONTROL UNIT INSTALL SOFTWARE		32651 90	
32-7006	REMOVE/INSTALL FRONT AXLE VALVE UNIT OF ACTIVE ROLL STABILIZATION		3270B H2	As required

XENTRY TIPS

WIS-References

Document number	Title	Note	Allocation
ar32.34-p-0021gq	Fill and bleed Active Roll Stabilization		Remedy
ar32.34-P5030GQX	Remove/install Active Roll Stabilization valve support		Remedy

Attachments

foam.JPG:



XENTRY TIPS

bubbles.jpg:



production date valve-block.jpg:

