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

Topic number	LI32.34-P-056198
Version	5
Function group	32.34 Anti roll governor (WR)
Date	08-29-2017
Validity	MODEL 166 with CODE 468 (Active Curve System) MODEL 292 with CODE 468 (Active Curve System)
Reason for change	Clerical errors corrected, picture renamed
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 April 1, 2017 - Replace valve block, see picture 1.

Production date after April 1, 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.

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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 March 31, 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

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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:

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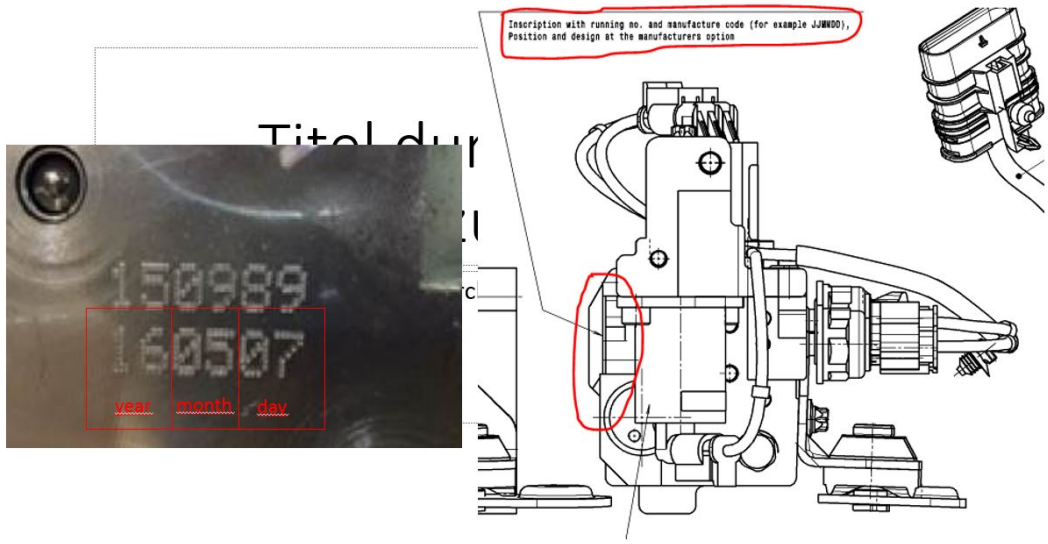
bubbles.jpg:

production date valve-block.jpg:



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