

## ACTIVE CURVE SYSTEM malfunction in instrument cluster.

Topic number	LI32.34-P-058736
Version	1
Design group	32.34 Roll control (WR)
Date	03-21-2014
Validity	MODEL 166 with AIRMATIC (code 489) and ACS (ACTIVE CURVE SYSTEM, code 468)
Reason for change	
Reason for block	

**Complaint:**

ACTIVE CURVE SYSTEM malfunction in instrument cluster in combination with the following fault codes in the ACS control unit:

P100000: The oil pressure at the front axle is too low. (Veh. up to approx. 7/2012)

P100200: The oil pressure at the rear axle is too low. (Veh. up to approx. 7/2012)

P1C9C00: The oil pressure at the front axle is too low. (Current veh.)

P1C9E00: The oil pressure at the rear axle is too low. (Current veh.)

In addition, the following complaints may occur depending on symptoms:

Gushing/flow noises from the front or rear axle area when cornering.

Oil leaking via the ACS reservoir.

**Cause:**

Residual air in the system.

As a result, a fault code is logged and the message appears in the instrument cluster.

**Remedy:**

1. Check intake line for tight seating at oil reservoir and at pump (it should not rotate; replace if necessary)
2. Fill oil reservoir up to upper line of 60° marking
3. Start engine and observe fill level
4. If the fill level drops, switch off engine and correct oil level, multiple times if necessary, until it can no longer be detected to drop.
5. If the fill level is stable, run engine at idle until there are no more bubbles in the oil reservoir
6. When the oil reservoir is free of bubbles, start the bleeding routine.
7. If there is severe foaming in the oil reservoir, abort the routine and top up the oil again, then run the engine until the reservoir is free of bubbles.
8. Restart the bleeding routine, observing the fill level and watching for foaming.
9. When the foaming stops, the high-pressure test can be started.
10. If the test is passed, again check that the fill level in the reservoir is at the correct level; correct if necessary.

<b>Symptoms</b>
Chassis/suspension / Chassis, noises / Whistling
Chassis/suspension / Suspension characteristic / Oil ejection
Chassis/suspension / Suspension/Dampening / Roll control / Nonfunctional

Control unit/fault code		
Control unit	Fault code	Fault text
Roll control - Roll control (N51/6) (ARS166)	P100000	The oil pressure at the front axle is too low.
Roll control - Roll control (N51/6) (ARS166)	P100200	The oil pressure at the rear axle is too low.
Roll control - Roll control (N51/6) (ARS166)	P1C9C00	The oil pressure at the front axle is too low. _
Roll control - Roll control (N51/6) (ARS166)	P1C9E00	The oil pressure at the rear axle is too low. _

Parts							
Part number	ES1	ES2	Designation	Quantity	Note	EPC	Other make part
A 166 320 08 55			Intake hose	1	Valid for M276	X	
A 001 989 24 03			Multigrade oil	1	As required, also known as Pentosin.	X	
A 166 320 03 55			Intake hose	1	Valid for M278 / M157	X	
A 166 320 10 55			Intake hose	1	Valid for OM642	X	

Work units				
Op. no.	Operation text	Time	Damage code	Note
32-6981	REPLACE LINE FOR ACTIVE ROLL STABILIZATION, LOCATION:.....		32604 04	
32-6983	CHECK OIL LEVEL OF ACTIVE ROLL STABILIZATION, CORRECT (AFTER CHECK)		32707 S1	
32-6990	FILL/BLEED ACTIVE ROLL STABILIZATION (AFTER CHECK)		32707 S1	

WIS-References			
Document number	Title	Note	Allocation
AR32.22-P-0021GQ	Fill and bleed Active Roll Stabilization		Remedy
BB00.40-P-0345-00A	Hydraulic fluids (Specification 345.0)		Remedy

Validity		
Vehicle	Engine	Transmission
GL (166)	*	*

M (166)	*	*
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Full model designation breakdown		
Vehicle	Engine	Transmission
166.003	651.960	722.908
166.004	651.960	722.908
166.023	642.826	722.903
166.023	642.826	725.031
166.024	642.826	722.903
166.024	642.826	725.031
166.055	276.955	722.906
166.056	276.821	722.904
166.056	276.925	722.904
166.057	276.955	722.906
166.058	276.955	722.906
166.059	276.821	722.904
166.062	276.821	722.904
166.073	278.928	722.909
166.073	278.928	725.031
166.073	278.928	725.032
166.074	157.982	722.905
166.074	157.982	722.931
166.823	642.826	722.903
166.823	642.826	725.031
166.824	642.826	722.903
166.824	642.826	725.031
166.856	276.821	722.904
166.864	276.821	722.904
166.865	276.821	722.904
166.872	278.928	722.909
166.872	278.928	725.031
166.872	278.928	725.032
166.872	278.928	725.033
166.873	278.928	722.909
166.873	278.928	725.031
166.873	278.928	725.032
166.873	278.928	725.033
166.874	157.982	722.905
166.874	157.982	722.931