

AIRMATIC fault message in instrument cluster

Topic number	LI32.22-P-067318
Version	3
Function group	32.22 Air suspension
Date	12-12-2017
Validity	MODEL 292 with AIRMATIC (code 489) MODEL 166 with AIRMATIC (code 489) MODEL 217 without ACTIVE BODY CONTROL (code 487) MODEL 222 without ACTIVE BODY CONTROL (code 487)
Reason for change	Remedy optimized.
Reason for block	

Complaint:

AIRMATIC fault message in instrument cluster.

Various fault codes in quick test possible, see listing of fault codes.

Cause:

Electrical malfunction of the damping valves in the left or right shock absorber on the front or rear axle due to:

- Corrosion in the plug on the ADS module or in the control unit.
- Short circuit to ground or positive in the electrical actuation line of the ADS module
- Internal fault in the damping valves

Remedy:

1. Check the connector for corrosion, repair if necessary.

Check the electrical line for short circuit to ground or positive, repair if necessary.

2. If the connectors and electrical lines are OK, replace the affected suspension strut.

Symptoms
Chassis/suspension / Suspension/Dampening / Suspension System Function / Absorber hard
Chassis/suspension / Suspension/Dampening / Suspension System Function / Absorber hardness selector not effective
Chassis/suspension / Suspension/Dampening / Suspension System Function / Suspension too hard
Chassis/suspension / Suspension characteristic / Adjustment too hard
Chassis/suspension / Suspension/Dampening / AIRMATIC / Function / Hard damping
Chassis/suspension / Suspension/Dampening / AIRMATIC / Function / Damper hardness adjustment nonfunctional
Chassis/suspension / Suspension/Dampening / AIRMATIC / Display message / Air Suspension - Service Required
Chassis/suspension / Suspension/Dampening / AIRMATIC / Indicator lamp / lit
Chassis/suspension / Suspension/Dampening / Adaptive damping system ADS / Hard damping

XENTRY TIPS

Control unit/fault code		
Control unit	Fault code	Fault text
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C153912	Right rear damping valve 2 has a malfunction. There is a short circuit to positive.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C15321F	The right front damping valve has a malfunction. There is a sporadic fault.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C15331A	Right front damping valve 2 has a malfunction. The limit value for resistance has not been attained.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C153013	Left front damping valve 2 has a malfunction. There is an open circuit.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C153012	Left front damping valve 2 has a malfunction. There is a short circuit to positive.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C153512	The left rear damping valve has a malfunction. There is a short circuit to positive.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C15351A	The left rear damping valve has a malfunction. The limit value for resistance has not been attained.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C153612	Left rear damping valve 2 has a malfunction. There is a short circuit to positive.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C153611	Left rear damping valve 2 has a malfunction. There is a short circuit to ground.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C153313	Right front damping valve 2 has a malfunction. There is an open circuit.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C152F12	The left front damping valve has a malfunction. There is a short circuit to positive.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C15321A	The right front damping valve has a malfunction. The limit value for resistance has not been attained.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C15391F	Right rear damping valve 2 has a malfunction. There is a sporadic fault.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C153911	Right rear damping valve 2 has a malfunction. There is a short circuit to ground.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C153811	The right rear damping valve has a malfunction. There is a short circuit to ground.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C15381A	The right rear damping valve has a malfunction. The limit value for resistance has not been attained.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C153912	Right rear damping valve 2 has a malfunction. There is a short circuit to positive.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C152F13	The left front damping valve has a malfunction. There is an open circuit.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C15361F	Left rear damping valve 2 has a malfunction. There is a sporadic fault.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C153511	The left rear damping valve has a malfunction. There is a short circuit to ground.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C153812	The right rear damping valve has a malfunction. There is a short circuit to positive.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C153312	Right front damping valve 2 has a malfunction. There is a short circuit to positive.

XENTRY TIPS

N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C153011	Left front damping valve 2 has a malfunction. There is a short circuit to ground.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C15361A	Left rear damping valve 2 has a malfunction. The limit value for resistance has not been attained.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C153212	The right front damping valve has a malfunction. There is a short circuit to positive.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C152F1F	The left front damping valve has a malfunction. There is a sporadic fault.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C153013	Left front damping valve 2 has a malfunction. There is an open circuit.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C153513	The left rear damping valve has a malfunction. There is an open circuit.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C15381A	The right rear damping valve has a malfunction. The limit value for resistance has not been attained.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C153312	Right front damping valve 2 has a malfunction. There is a short circuit to positive.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C153512	The left rear damping valve has a malfunction. There is a short circuit to positive.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C152F1A	The left front damping valve has a malfunction. The limit value for resistance has not been attained.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C15331A	Right front damping valve 2 has a malfunction. The limit value for resistance has not been attained.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C15361F	Left rear damping valve 2 has a malfunction. There is a sporadic fault.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C152F12	The left front damping valve has a malfunction. There is a short circuit to positive.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C152F11	The left front damping valve has a malfunction. There is a short circuit to ground.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C153311	Right front damping valve 2 has a malfunction. There is a short circuit to ground.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C15351A	The left rear damping valve has a malfunction. The limit value for resistance has not been attained.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C153813	The right rear damping valve has a malfunction. There is an open circuit.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C15391A	Right rear damping valve 2 has a malfunction. The limit value for resistance has not been attained.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C153611	Left rear damping valve 2 has a malfunction. There is a short circuit to ground.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C15351F	The left rear damping valve has a malfunction. There is a sporadic fault.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C153911	Right rear damping valve 2 has a malfunction. There is a short circuit to ground.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C153012	Left front damping valve 2 has a malfunction. There is a short circuit to positive.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C15301A	Left front damping valve 2 has a malfunction. The limit value for resistance has not been attained.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C153313	Right front damping valve 2 has a malfunction. There is an open circuit.

XENTRY TIPS

N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C15331F	Right front damping valve 2 has a malfunction. There is a sporadic fault.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C15321A	The right front damping valve has a malfunction. The limit value for resistance has not been attained.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C153612	Left rear damping valve 2 has a malfunction. There is a short circuit to positive.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C153213	The right front damping valve has a malfunction. There is an open circuit.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C153511	The left rear damping valve has a malfunction. There is a short circuit to ground.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C153212	The right front damping valve has a malfunction. There is a short circuit to positive.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C153812	The right rear damping valve has a malfunction. There is a short circuit to positive.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C153613	Left rear damping valve 2 has a malfunction. There is an open circuit.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C153011	Left front damping valve 2 has a malfunction. There is a short circuit to ground.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C15381F	The right rear damping valve has a malfunction. There is a sporadic fault.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C152F1A	The left front damping valve has a malfunction. The limit value for resistance has not been attained.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C153311	Right front damping valve 2 has a malfunction. There is a short circuit to ground.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C153213	The right front damping valve has a malfunction. There is an open circuit.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C15331F	Right front damping valve 2 has a malfunction. There is a sporadic fault.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C153211	The right front damping valve has a malfunction. There is a short circuit to ground.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C15301F	Left front damping valve 2 has a malfunction. There is a sporadic fault.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C152F1F	The left front damping valve has a malfunction. There is a sporadic fault.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C153012	Left front damping valve 2 has a malfunction. There is a short circuit to positive.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C153011	Left front damping valve 2 has a malfunction. There is a short circuit to ground.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C15301F	Left front damping valve 2 has a malfunction. There is a sporadic fault.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C153312	Right front damping valve 2 has a malfunction. There is a short circuit to positive.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C152F13	The left front damping valve has a malfunction. There is an open circuit.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C15321F	The right front damping valve has a malfunction. There is a sporadic fault.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C15331A	Right front damping valve 2 has a malfunction. The limit value for resistance has not been attained.

XENTRY TIPS

N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C15321A	The right front damping valve has a malfunction. The limit value for resistance has not been attained.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C153212	The right front damping valve has a malfunction. There is a short circuit to positive.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C152F12	The left front damping valve has a malfunction. There is a short circuit to positive.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C152F11	The left front damping valve has a malfunction. There is a short circuit to ground.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C15301A	Left front damping valve 2 has a malfunction. The limit value for resistance has not been attained.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C153313	Right front damping valve 2 has a malfunction. There is an open circuit.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C153811	The right rear damping valve has a malfunction. There is a short circuit to ground.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C153013	Left front damping valve 2 has a malfunction. There is an open circuit.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C15361F	Left rear damping valve 2 has a malfunction. There is a sporadic fault.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C15381A	The right rear damping valve has a malfunction. The limit value for resistance has not been attained.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C153511	The left rear damping valve has a malfunction. There is a short circuit to ground.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C153813	The right rear damping valve has a malfunction. There is an open circuit.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C153611	Left rear damping valve 2 has a malfunction. There is a short circuit to ground.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C15391A	Right rear damping valve 2 has a malfunction. The limit value for resistance has not been attained.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C153811	The right rear damping valve has a malfunction. There is a short circuit to ground.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C15391F	Right rear damping valve 2 has a malfunction. There is a sporadic fault.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C153911	Right rear damping valve 2 has a malfunction. There is a short circuit to ground.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C153913	Right rear damping valve 2 has a malfunction. There is an open circuit.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C153912	Right rear damping valve 2 has a malfunction. There is a short circuit to positive.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C153612	Left rear damping valve 2 has a malfunction. There is a short circuit to positive.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C153513	The left rear damping valve has a malfunction. There is an open circuit.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C15351A	The left rear damping valve has a malfunction. The limit value for resistance has not been attained.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C15351F	The left rear damping valve has a malfunction. There is a sporadic fault.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C153512	The left rear damping valve has a malfunction. There is a short circuit to positive.

XENTRY TIPS

N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C153913	Right rear damping valve 2 has a malfunction. There is an open circuit.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C153812	The right rear damping valve has a malfunction. There is a short circuit to positive.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C153613	Left rear damping valve 2 has a malfunction. There is an open circuit.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C15361A	Left rear damping valve 2 has a malfunction. The limit value for resistance has not been attained.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C152F13	The left front damping valve has a malfunction. There is an open circuit.
N51/3 - AIRMATIC (SPC222) (S (217),S (222))	C15381F	The right rear damping valve has a malfunction. There is a sporadic fault.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C15351F	The left rear damping valve has a malfunction. There is a sporadic fault.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C152F11	The left front damping valve has a malfunction. There is a short circuit to ground.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C153211	The right front damping valve has a malfunction. There is a short circuit to ground.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C15321F	The right front damping valve has a malfunction. There is a sporadic fault.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C153311	Right front damping valve 2 has a malfunction. There is a short circuit to ground.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C153513	The left rear damping valve has a malfunction. There is an open circuit.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C152F1A	The left front damping valve has a malfunction. The limit value for resistance has not been attained.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C153813	The right rear damping valve has a malfunction. There is an open circuit.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C152F1F	The left front damping valve has a malfunction. There is a sporadic fault.
N51/3 - AIRMATIC (SPC166) (M/GLE (166))	C153211	The right front damping valve has a malfunction. There is a short circuit to ground.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C153613	Left rear damping valve 2 has a malfunction. There is an open circuit.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C153913	Right rear damping valve 2 has a malfunction. There is an open circuit.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C15331F	Right front damping valve 2 has a malfunction. There is a sporadic fault.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C15361A	Left rear damping valve 2 has a malfunction. The limit value for resistance has not been attained.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C15391A	Right rear damping valve 2 has a malfunction. The limit value for resistance has not been attained.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C15391F	Right rear damping valve 2 has a malfunction. There is a sporadic fault.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C153213	The right front damping valve has a malfunction. There is an open circuit.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C15301A	Left front damping valve 2 has a malfunction. The limit value for resistance has not been attained.

XENTRY TIPS

N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C15301F	Left front damping valve 2 has a malfunction. There is a sporadic fault.
N51/3 - AIRMATIC (SPC292) (M/GLE (166),GLE (292))	C15381F	The right rear damping valve has a malfunction. There is a sporadic fault.

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
			Suspension strut	1	As required, part number see EPC	

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
32-1955	REMOVE/INSTALL LEFT FRONT SUSPENSION STRUT		32F00 73	BR166/292
32-1960	REMOVE/INSTALL FRONT RIGHT SUSPENSION STRUT		32U00 73	BR166/292
32-1065	REMOVE/INSTALL LEFT SHOCK ABSORBER OF 2ND VEH. AXLE, REPLACE IF NECESSARY		32F06 73	BR166/292
32-1071	REMOVE/INSTALL RIGHT SHOCK ABSORBER OF 2ND VEH. AXLE, REPLACE IF NECESSARY		32U06 73	BR166/292
32-8500	REPLACE LEFT FRONT SUSPENSION STRUT FOR AIR SUSPENSION STRUT (AIRMATIC)		32F00 73	BR222/217
32-8565	REPLACE RIGHT FRONT SUSPENSION STRUT FOR AIR SUSPENSION STRUT (AIRMATIC)		32U00 73	BR222/217
32-8575	REPLACE LEFT REAR SUSPENSION STRUT FOR AIR SUSPENSION STRUT (AIRMATIC)		32F06 73	BR222/217
32-7580	REPLACE RIGHT REAR SUSPENSION STRUT FOR AIR SUSPENSION STRUT (AIRMATIC)		32U06 73	BR222/217

WIS-References			
Document number	Title	Note	Allocation
AR32.25-p-1016lfb	Remove/install rear suspension strut		Remedy
AR32.25-p-1017lfb	Remove/install front suspension strut		Remedy
AR32.25-p-1017gp	Remove/install front suspension strut		Remedy

XENTRY TIPS

AR32.25-p-0110gqx	Remove/install rear shock absorber		Remedy
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