

Vehicle drops at rear axle, vehicles with electronic rear axle level control or AIRmatic

Topic number	LI32.22-P-048597
Version	7
Design group	32.22 Air suspension
Date	02-27-2012
Validity	Model 212.0## with air suspension (SA code 489) Model 212.2## (station wagon) Model 218 with air suspension (SA code 489)
Reason for change	Check for water in system added under Remedy. Part number for compressor and valve unit added.
Reason for block	

Complaint:

The vehicle drops at the rear axle after standing for a long time.

Cause:

Damaged sealing rings in the air suspension element on the rear axle can lead to a microscopic leak and thus to a gradual loss of air.

Attachments	
File	Designation
2.JPG	Figure 2
1.JPG	Figure 1

Remedy:

Check for water in the system:

1. Unscrew AIRmatic pressure line between compressor and valve unit.

If water runs out (Figure 1) or if water droplets are visible at the pressure line connection of the

compressor or valve unit (Figure 2), the compressor and valve unit must be replaced.

If no water is visible, actuate compressor. If water runs out of the connection on the compressor, replace the compressor and valve unit.

If the compressor and valve unit have to be replaced due to water in the system, this is to be encoded in the warranty and goodwill case as consequential damage for the air spring bellows.

(Observe WIS instructions.)

2. Unscrew air lines from valve block to air springs on the side of the air suspension strut and blow out with compressed air.

3. Replace both air springs on the rear axle.

Note: Since the end of December 2011 modified air spring bellows are available with which the problem can be permanently eliminated - see part numbers below. Even if one or both air spring bellows have been replaced in the past and the vehicle has started to drop at the rear axle again, the cause of the problem is still the air spring bellows. We are unaware of any other damage mechanism/focus. In this case both air spring bellows must be replaced again.

Possible check for confirming the complaint 'vehicle drops':

XENTRY

1. Park up the vehicle and after approx. 2 hours, when the vehicle has cooled down, measure the vehicle level at the rear axle on both sides from the wheel center to the fender.
2. Leave the vehicle standing overnight in the same place and next day check the vehicle level at both wheels. If the vehicle level has dropped by more than 20 mm, both air suspension elements must be replaced.

Symptoms
Suspension System Function / Chassis/suspension / Vehicle level too low / Suspension/Dampening /
Suspension System Function / Chassis/suspension / Level does not react / Suspension/Dampening /
Suspension System Function / Chassis/suspension / Indicator lamp is on / Suspension/Dampening /
Chassis/suspension / Lopsided/crooked / Suspension characteristic /
AIRMATIC / Chassis/suspension / AIRMATIC leaks / Suspension/Dampening / Air leakage /
Air Suspension- Stop, Vehicle Too Low / AIRMATIC / Chassis/suspension / Suspension/Dampening / AIRMATIC display /
Air Suspension - Service Required / AIRMATIC / Chassis/suspension / Suspension/Dampening / AIRMATIC display /
AIRMATIC / Chassis/suspension / AIRMATIC function / Vehicle is lopsided / Suspension/Dampening /
AIRMATIC / Chassis/suspension / AIRMATIC function / Vehicle is too low / Suspension/Dampening /
AIRMATIC / Chassis/suspension / AIRMATIC function / Vehicle lowers while driving / Suspension/Dampening /

Parts							
Part number	ES1	ES2	Designation	Quantity	Note	EPC	Non-EPC
A 212 320 39 25			Left rear air spring, except AMG	1	As required for station wagon & 218	X	
A 212 320 40 25			Right rear air spring, except AMG	1	As required for station wagon & 218	X	
A 212 320 37 25			Left rear air spring, except AMG	1	As required for sedan	X	
A 212 320 38 25			Right rear air spring, except AMG	1	As required for sedan	X	
A 212 320 04 04			Compressor unit	1	As required	X	
A 212 320 01 58			Valve unit	1	SA code 489 Air suspension	X	
A 212 320 02 58			Valve unit	1	SA code 488 Electronic level control	X	

Validity		
Vehicle	Engine	Transmission
212.002	*	*
212.003	*	*
212.005	*	*
212.020	*	*
212.023	*	*
212.024	*	*
212.025	*	*

XENTRY

212.041	*	*
212.047	*	*
212.048	*	*
212.052	*	*
212.053	*	*
212.054	*	*
212.055	*	*
212.056	*	*
212.057	*	*
212.059	*	*
212.072	*	*
212.073	*	*
212.074	*	*
212.077	*	*
212.080	*	*
212.082	*	*
212.087	*	*
212.088	*	*
212.089	*	*
212.090	*	*
212.091	*	*
212.093	*	*
212.202	*	*
212.203	*	*
212.205	*	*
212.220	*	*
212.223	*	*
212.224	*	*
212.225	*	*
212.247	*	*
212.248	*	*
212.254	*	*
212.255	*	*
212.256	*	*
212.257	*	*
212.259	*	*
212.272	*	*
212.273	*	*
212.274	*	*
212.277	*	*
212.280	*	*
212.282	*	*
212.287	*	*

XENTRY

212.288	*	*
212.289	*	*
212.291	*	*
212.293	*	*
CLS (218)	*	*

Full model designation breakdown		
Vehicle	Engine	Transmission
212.002	651.924	711.653
212.002	651.924	716.656
212.002	651.924	722.646
212.002	651.924	722.908
212.003	651.924	711.670
212.003	651.924	722.646
212.003	651.924	722.908
212.005	651.925	711.653
212.005	651.925	716.656
212.005	651.925	722.694
212.005	651.925	722.996
212.020	642.850	711.670
212.020	642.850	722.902
212.023	642.852	711.670
212.023	642.852	722.903
212.024	642.850	711.670
212.024	642.850	722.902
212.025	642.850	711.670
212.025	642.850	722.902
212.025	642.856	711.670
212.025	642.856	722.902
212.041	271.958	722.695
212.047	271.860	722.618
212.047	271.860	722.997
212.048	271.860	711.655
212.048	271.860	722.696
212.048	271.860	722.997
212.052	272.923	716.636
212.052	272.923	722.998
212.053	272.980	722.906
212.054	272.952	711.654
212.054	272.952	722.999
212.055	276.952	722.906
212.056	272.980	722.906

XENTRY

212.057	272.983	722.906
212.059	276.952	722.906
212.072	273.971	722.904
212.073	278.922	722.909
212.074	157.981	722.931
212.077	156.985	722.930
212.080	276.952	722.960
212.082	651.924	722.965
212.087	272.977	722.960
212.088	276.952	722.960
212.089	642.856	722.962
212.090	273.970	722.961
212.091	278.922	722.967
212.093	642.858	722.966
212.202	651.924	711.653
212.202	651.924	722.646
212.202	651.924	722.908
212.203	651.924	711.670
212.203	651.924	722.646
212.203	651.924	722.908
212.205	651.925	711.653
212.205	651.925	716.656
212.205	651.925	722.694
212.205	651.925	722.996
212.220	642.850	711.670
212.220	642.850	722.902
212.223	642.852	711.670
212.223	642.852	722.903
212.224	642.850	711.670
212.224	642.850	722.902
212.225	642.850	711.670
212.225	642.850	722.902
212.247	271.860	722.618
212.247	271.860	722.997
212.248	271.860	711.655
212.248	271.860	716.607
212.248	271.860	716.612
212.248	271.860	722.696
212.248	271.860	722.997
212.254	272.952	711.654
212.254	272.952	716.671
212.254	272.952	722.999
212.255	276.952	722.906

XENTRY

212.256	272.980	722.906
212.257	272.983	722.906
212.259	276.952	722.906
212.272	273.971	722.904
212.273	278.922	722.909
212.274	157.981	722.931
212.277	156.985	722.930
212.280	276.952	722.960
212.282	651.924	722.965
212.287	272.977	722.960
212.288	276.952	722.960
212.289	642.856	722.962
212.291	278.922	722.967
212.293	642.858	722.966
218.303	651.924	722.908
218.323	642.853	722.903
218.355	276.952	722.906
218.359	276.952	722.906
218.364	276.820	722.904
218.373	278.922	722.909
218.374	157.981	722.931
218.391	278.922	722.967
218.393	642.854	722.966

Attachments

2.JPG:



1.JPG:

