

Creaking noises from area of air suspension strut on front axle

Topic number	LI32.22-P-058342
Version	1
Design group	32.22 Air suspension
Date	01-31-2014
Validity	MODEL 222 4MATIC with AIRMATIC (code 489)
Reason for change	
Reason for block	

Complaint:

Creaking noises from the area of the air suspension strut on the front axle when driving over bumps with the steering turned.

Topic only reported from outer wheel until now.

Cause:

When cornering, the axle kinematics can result in contact between components inside the suspension strut, which can cause creak or knocking noises. In order to rectify this effect, some vehicles are factory-fitted with square tapered washers (see Figure 1).

In individual cases, however, noises may still occur depending on the tolerances of the components.

Remedy:

In the event of complaints, remove the square tapered washer on the outer wheel.

Note:

If it is found that the noise is produced by the inner air suspension strut, a square tapered washer must be installed on the inner air suspension strut.

The installation position of the washer is defined by the positioning of the bolt holes and by the labeling.

Attachments	
File	Designation
1.JPG	Figure 1

Symptoms
Chassis/suspension / Suspension/Dampening / AIRMATIC / AIRMATIC noise / Grunting
Chassis/suspension / Chassis, noises / Grunting
Chassis/suspension / Axle / Front axle / Front axle, noise / Grunting
Chassis/suspension / Chassis, noises / Creaking

Parts							
Part number	ES1	ES2	Designation	Quantity	Note	EPC	Other make part

A 222 323 00 67		Washer	1	Remove or install as required!	X
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Work units				
Op. no.	Operation text	Time	Damage code	Note
32-8650	REPLACE LEFT FRONT SUSPENSION STRUT FOR AIR SUSPENSION (AIR-MATIC)		32F0A 36	As required
32-8565	REPLACE RIGHT FRONT SUSPENSION STRUT FOR AIR SUSPENSION (AIRMATIC)		32U0A 36	As required

WIS-References			
Document number	Title	Note	Allocation
AR32.25-P-1017LFB	Remove/install front suspension strut	In this case: Remove suspension strut, remove washer, reinstall suspension strut.	Remedy

Validity		
Vehicle	Engine	Transmission
222.004	*	*
222.032	*	*
222.033	*	*
222.057	*	*
222.077	*	*
222.082	*	*
222.085	*	*
222.104	*	*
222.123	*	*
222.132	*	*
222.133	*	*
222.157	*	*
222.165	*	*
222.176	*	*
222.177	*	*
222.178	*	*
222.179	*	*
222.182	*	*
222.185	*	*

Full model designation breakdown		
Vehicle	Engine	Transmission
222.004	651.921	724.208
222.032	642.861	722.903
222.032	642.861	725.011
222.033	642.867	722.966
222.033	642.867	725.041
222.057	276.960	724.206
222.057	276.960	725.011
222.077	157.985	722.931
222.082	278.929	722.909
222.082	278.929	725.011
222.085	278.929	722.967
222.085	278.929	725.041
222.104	651.921	724.208
222.123	642.861	722.903
222.123	642.861	725.011
222.132	642.861	722.903
222.132	642.861	725.011
222.133	642.867	722.966
222.133	642.867	725.041
222.157	276.960	724.206
222.157	276.960	725.011
222.165	276.824	722.904
222.165	276.824	725.011
222.176	277.980	722.932
222.177	157.985	722.931
222.178	157.985	722.971
222.179	279.980	722.932
222.182	278.929	722.909
222.182	278.929	725.011
222.185	278.929	722.967
222.185	278.929	725.041

Attachments

1.JPG:

