Creaking and squeaking noises heard from instrument panel, caused by front axle suspension strut

Topic number	LI32.25-P-063651
Version	5
Design group	32.25 Shock absorbers/damper struts/spring struts
Date	08-26-2016
Validity	MODEL 205, 253, 213 without CODE 489
Reason for change	Note included on avoiding the removal of the shock absorber, as per information from Australia
Reason for block	

Complaint:

Creaking or squeaking from the area of the front axle on rough roads, heard in the area of the instrument panel.

Also audible while stationary when the suspension is deflected.

Attachments	
File	Description
1_Geräusch_Knarzen.mp3	Noise recording of creaking/squeaking

Cause:

1. When the suspension strut is compressed heavily, the expansion of the stop buffer may allow the boot to come into contact with the casing of the head bearing.

2. Squeaking noises between the buffer and the piston rod.

3. Squeaking noises due to micromovements between the upper coil of the spring and the upper spring cup mounting.

Attachments	
File	Description
1_Geräusch Knarzen.JPG	Cause and remedy (lubrication area for grease)

Remedy:

Note: It is not necessary to remove the shock absorber. The work for eliminating the noise can be performed in the installed state.

1. Raise vehicle at front axle.

2. Pull down stop buffer with boot.

3. Apply Krytox fluid/ grease to the following locations (also refer to picture in attachment):

• Area (1) is the contact surface between the spring and the spring cup mounting.

• Area (2) is the contact surface between the dust boot and the strut tower.

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4. Grease with special grease A 001 989 84 51 between shock absorber piston rod and stop buffer.

5. Push stop buffer with boot back up to original position.

6. Lower vehicle.

Note: If the problem persists after greasing, create a PTSS case with the following information!

- Photo of labels on suspension strut/shock absorber, see attachment: "Photo of suspension strut label no. 1" and "Photo of suspension strut label no. 2".
- Photo on which the areas covered in grease can be seen in greater detail.

Attachments	
File	Description
Fetten Anschlagpuffer.jpg	Greasing with A0019898451 09 between piston rod and stop buffer
Fettstellen.jpg	Areas to be greased

Symptoms
Chassis/suspension / Noises / Grunting
Chassis/suspension / Noises / Howling/whistling/squeaking
Chassis/suspension / Axle / Front axle / Noises / Grunting
Chassis/suspension / Axle / Front axle / Noises / Squeals
Body / Interior equipment / Instrument panel / Noise
Chassis/suspension / Noises / Creaks

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 000 989 36 60			Lubricant	1	Krytox fluid	X
A 000 989 38 60			Lubricant	1	Krytox grease	X
A 001 989 84 51	09		Special grease	1	Special grease 400 g, for greasing between stop buffer and shock absorber piston rod	X

Attachments	
File	Description
Label_1_Federbein_205.JPG	Photo of suspension strut label no. 1
Label_2_Federbein_205.JPG	Photo of suspension strut label no. 2

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
32-1938	LUBRICATE STOP BUFFER WITH BOOT FOR SUSPENSION STRUT OF 1ST VEHICLE AXLE, LOCATION:.....	2 AW	32322 36	

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Validity		
Vehicle	Engine	Transmission
C (205)	*	*
C (205) - 205.002	*	*
C (205) - 205.003	*	*
C (205) - 205.004	*	*
C (205) - 205.008	*	*
C (205) - 205.009	*	*
C (205) - 205.012	*	*
C (205) - 205.036	*	*
C (205) - 205.037	*	*
C (205) - 205.040	*	*
C (205) - 205.042	*	*
C (205) - 205.045	*	*
C (205) - 205.049	*	*
C (205) - 205.066	*	*
C (205) - 205.086	*	*
C (205) - 205.087	*	*
C (205) - 205.140	*	*
C (205) - 205.142	*	*
C (205) - 205.145	*	*
C (205) - 205.204	*	*
C (205) - 205.208	*	*
C (205) - 205.209	*	*
C (205) - 205.212	*	*
C (205) - 205.236	*	*
C (205) - 205.237	*	*
C (205) - 205.240	*	*
C (205) - 205.242	*	*
C (205) - 205.245	*	*
C (205) - 205.266	*	*
C (205) - 205.286	*	*
C (205) - 205.287	*	*
C (205) - 205.386	*	*
C (205) - 205.387	*	*
E (213)	*	*
GLC (253)	*	*

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