

Howling noises in drive train in area of rear axle

Topic number	LI35.31-P-061268
Version	1
Design group	35.31 Rear axle center assembly
Date	04-14-2015
Validity	Only affects model W/V 222 up to production date 10.10.2014
Reason for change	

Complaint:

Possible howling noise in the drive train in the area of the rear axle between 80 km/h and 110 km/h (50 mph to 70 mph).

Cause:

Resonance in the drive train stimulated by the meshing of the gear set in the rear axle differential (drive pinion/ ring gear).

Remedy:

Note:

Please follow the instructions in this document. The replacement of any other components is not effective.

Remedy:

A test drive must be performed. For accurate analysis (localization) of the noise, use the "Steelman Chassis Ear" noise diagnosis kit (SI 58.40-P-0036A).

If the rear axle differential can be clearly identified as the reason for the fault (source of noise), then check at the left side shaft, whether a rotary mass (see picture file in attachment "Comparison of side shaft with rotary mass with side shaft without rotary mass") has been installed on the left inner joint.

1. If a side shaft without rotary mass is installed: Order side shaft according to parts list.
2. If a side shaft with rotary mass is installed: Please create a query through a PTSS referencing this LI. Please include the part number currently installed in the vehicle, as well as an accurate description of the complaint. Engineering will respond to the case.

Attachments	
File	Description
HA-Seitenwelle mit Drehmasse Englisch.pdf	Comparison of side shaft with rotary mass with side shaft without rotary mass, English

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 222 350 21 04			Left rear axle shaft	1	For model designation: 222.176, 222.976	X

A 222 350 22 04			Left rear axle shaft	1	For model series: 222.123, 222.132, 222.133, 222.104, 222.178, 222.182	X
A 222 350 97 04			Left rear axle shaft	1	For model series: 222.163	X
A 222 350 78 02			Left rear axle shaft	1	For model series: 222.157, 222.184, 222.185	X

Work units				
Op. no.	Operation text	Time	Damage code	Note
			35D02 36	Only claim if axle is missing rotary mass modification as described. Otherwise open PTSS case and damage code accordingly. That situation would not be claimed under this LI.
94-1010	LOCALIZE NOISE WITH CHASSIS EARS. IN/OUT MILEAGE WITH SEPARATE TIME PUNCH.			
32-8556	AIRMATIC PRESSURE. RELEASE/FILL. ABC CARS CAN SUBSTITUTE FOR SIMILAR .SEE INCLUDED TEXT OF 35-7217			
35-7217	REAR AXLE SHAFT REPLACE			