
Throttle lift-off clunking noises at drive shafts of front axle

Topic number	LI33.30-P-056665
Version	1
Design group	33.30 Final drive, differential, drive shaft
Date	07-18-2013
Validity	Models: All Mercedes-Benz cars with front-wheel drive and 4x4 vehicles
Reason for change	
Reason for block	

Complaint:

Single, throttle lift-off, clunking noise from the side shaft when starting off (audible at the wheel). The clunk is heard once when changing from forward to reverse (and vice versa).

Note: Sound file in attachment

Attachments	
File	Designation
complaint clunking sound.mp3	Sound Recording of complaint

Cause:

If the complaint is eliminated by experimentally loosening the outboard collar nut (by 1 turn), the problem is due to micromovement in the connection between the wheel bearing inner race and the joint housing of the side shaft.

Note: The collar nut must always be replaced after being loosened and must be tightened to the specified torque.

Remedy:

Coat contact surface of side shaft with wheel bearing with Molykote paint. To do this, proceed as follows:

1. Remove outboard side shafts (extract outer joint gearing from wheel hub)
2. Clean contact surface A (see image file in attachment "Outer joint housing before") before coating with Molykote paint (free of dust and grease)
3. Coat contact surface A (see image file in attachment "Outer joint housing after") with Molykote and leave to dry for one hour in removed condition
4. Reinstall side shafts

Note: Before using the low friction paint (Molykote), stir or shake thoroughly.

Attachments	
File	Designation
joint housing before.jpg	Before coating with Molykote paint
joint housing after.jpg	After coating with Molykote paint

Symptoms

Power transmission / Power transmission, noise / Throttle lift-off clunking noise

Power transmission / Drive shaft / Axle shaft / Axle shaft, noise / Knocking/banging

Parts							
Part number	ES1	ES2	Designation	Quantity	Note	EPC	Other make part
A 000 989 01 52	10		Low-friction paint (Molykote)	1		X	

Work units				
Op. no.	Operation text	Time	Damage code	Note
33-0000	REMOVE/INSTALL PARTS OF LEFT FRONT AXLE SHAFT.		33H10 34	Left side shaft
33-0000	REMOVE/INSTALL PARTS OF RIGHT FRONT AXLE SHAFT.		33W10 34	Right side shaft
33-0000	REMOVE/INSTALL PARTS OF FRONT AXLE SHAFTS (BOTH)			Left and right side shafts

Validity		
Vehicle	Engine	Transmission
166.003	*	*
166.004	*	*
166.023	*	*
166.024	*	*
166.055	*	*
166.057	*	*
166.058	*	*
166.073	*	*
166.074	*	*
166.823	*	*
166.824	*	*
166.872	*	*
166.873	*	*
166.874	*	*
204.901	*	*
204.902	*	*
204.904	*	*
204.937	*	*
204.956	*	*
204.957	*	*
204.981	*	*
204.982	*	*
204.983	*	*

204.984	*	*
204.987	*	*
204.988	*	*
204.990	*	*
204.992	*	*
204.993	*	*
204.997	*	*
207.302	*	*
207.303	*	*
207.322	*	*
207.323	*	*
207.326	*	*
207.334	*	*
207.336	*	*
207.347	*	*
207.348	*	*
207.355	*	*
207.356	*	*
207.357	*	*
207.359	*	*
207.365	*	*
207.372	*	*
207.373	*	*
207.388	*	*
207.402	*	*
207.403	*	*
207.422	*	*
207.423	*	*
207.426	*	*
207.434	*	*
207.436	*	*
207.447	*	*
207.448	*	*
207.455	*	*
207.456	*	*
207.457	*	*
207.459	*	*
207.465	*	*
207.472	*	*
207.473	*	*
212.001	*	*
212.002	*	*
212.003	*	*

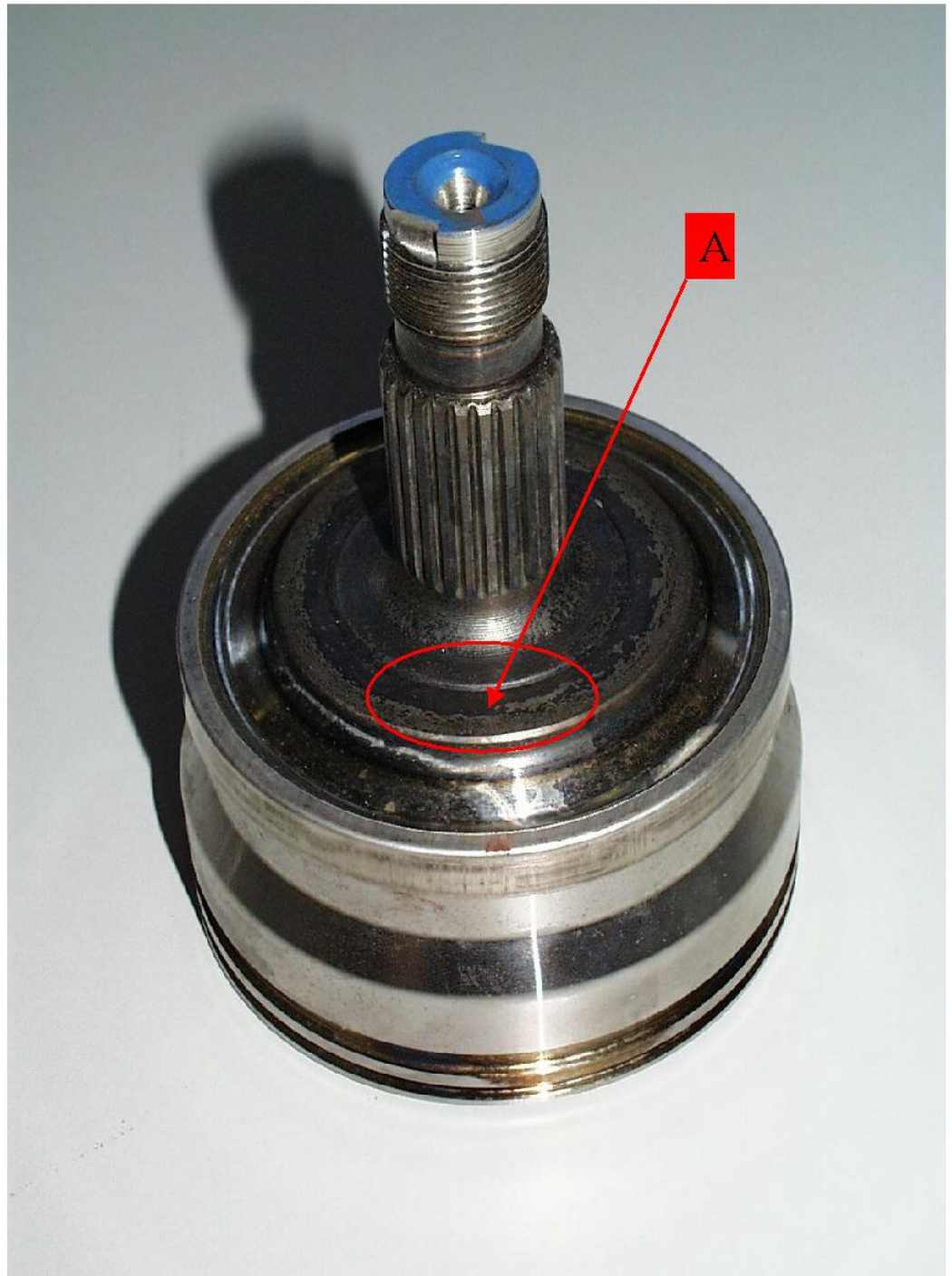
212.004	*	*
212.005	*	*
212.020	*	*
212.021	*	*
212.023	*	*
212.024	*	*
212.025	*	*
212.026	*	*
212.027	*	*
212.034	*	*
212.035	*	*
212.036	*	*
212.040	*	*
212.041	*	*
212.047	*	*
212.048	*	*
212.052	*	*
212.053	*	*
212.054	*	*
212.055	*	*
212.056	*	*
212.057	*	*
212.059	*	*
212.065	*	*
212.067	*	*
212.072	*	*
212.073	*	*
212.074	*	*
212.075	*	*
212.076	*	*
212.077	*	*
212.080	*	*
212.082	*	*
212.087	*	*
212.088	*	*
212.089	*	*
212.090	*	*
212.091	*	*
212.092	*	*
212.093	*	*
212.094	*	*
212.095	*	*
212.097	*	*

212.098	*	*
212.147	*	*
212.148	*	*
212.154	*	*
212.165	*	*
212.195	*	*
212.202	*	*
212.203	*	*
212.205	*	*
212.220	*	*
212.221	*	*
212.223	*	*
212.224	*	*
212.225	*	*
212.226	*	*
212.227	*	*
212.234	*	*
212.236	*	*
212.247	*	*
212.248	*	*
212.254	*	*
212.255	*	*
212.256	*	*
212.257	*	*
212.259	*	*
212.265	*	*
212.267	*	*
212.272	*	*
212.273	*	*
212.274	*	*
212.275	*	*
212.276	*	*
212.277	*	*
212.280	*	*
212.282	*	*
212.287	*	*
212.288	*	*
212.289	*	*
212.291	*	*
212.292	*	*
212.293	*	*
212.294	*	*
212.298	*	*

222.032	*	*
222.057	*	*
222.077	*	*
222.082	*	*
222.132	*	*
222.157	*	*
222.165	*	*
222.178	*	*
222.182	*	*
A (168)	*	*
A (169)	*	*
A (176)	*	*
B (242, 246)	*	*
B (245)	*	*
C (203)	*	*
C (204)	*	*
CL (216)	*	*
CLA (117)	*	*
CLS (218)	*	*
E (211)	*	*
GL (164)	*	*
M (163)	*	*
M (164)	*	*
R (251)	*	*
S (220)	*	*
S (221)	*	*

Attachments

joint housing before.jpg:



joint housing after.jpg:

