

BR190: Exhaust system noises

Topic number	LI49.10-P-066559
Version	3
Function group	49.10 Exhaust pipes, catalytic converter, mufflers
Date	08-15-2017
Validity	All BR190
Reason for change	Document revised.
Reason for block	

Complaint:

Noise complaints concerning the exhaust system:

- AMG GT typical noises
- Squeaking noises when the exhaust gas flaps open and close
- Rattling noises while driving
- Noises from actuators when the exhaust gas flaps open and close

Attachments	
File	Description
Messpunkt für Soundfile.jpg	Measurement point for sound files
01_Gasstöße_hinterm_FahrzeugGT_Fahrprogram_C_i.O..mp3	01_Pull throttle_behind the vehicleGT_Drive program C_OK
02_Gasstöße_hinterm_FahrzeugGT_Fahrprogram_S+_i.O..mp3	02_Pull throttle_behind the vehicleGT_Drive program S+_OK
03_Gasstöße_hinterm_FahrzeugGTS_Fahrprogram_C_i.O..mp3	03_Pull throttle_behind the vehicleGTS_Drive program_C_OK
04_Gasstöße_hinterm_FahrzeugGTS_Fahrprogram_S+_i.O..mp3	04_Pull throttle_behind the vehicleGTS_Drive program_S+_OK
05_Schubbetrieb_Röcheln_1500-1000_Fahrprogramm_C_i.O..mp3	05_Coasting_at_1500-1000_Drive program_C_OK

Cause:

AMG GT typical noises:

During starting, gentle throttle blips at idle or gradual acceleration and in the overrun phase at speeds from 50 km/h to 10 km/h: Typical engine combustion noises in combination with the GT exhaust system

(Standard and Performance System U78)

Squeaking noises:

XENTRY TIPS

Shaft may require lubrication (only vehicles with Performance System U78)

Rattling noises:

Flap bearing may require lubrication (systems prior to clean point) 04/2017 (only vehicles with Performance System U78)

Actuator noises:

Interfering frequencies from the actuator electronics unit / operating noise of the actuator (from limit stop to limit stop) (only vehicles with Performance System U78)

Remedy:

Always include the sound files in the analysis!

AMG GT typical noises: Exhaust sound is series production configuration (replacing the exhaust system will not change the noise behavior in this respect)

Squeaking noise: Lubrication of the shaft with heat-resistant lubricating paste A000 989 91 51

Clattering noise: Lubrication of the shaft with heat-resistant lubricating paste A000 989 91 51 / for vehicles prior to the clean point, also observe other related published TIPS documents in group 49

Actuator noise: Normal operating noise from the actuator; cannot be eliminated

Note: Only replace systems or components which really have a fault with the exhaust gas flaps and which vary from attached normal operation comparison sound files!

Unnecessary replacement may be charged back!

In unclear cases and for vehicles after vehicle production date cleanpoint 04/2017:

Report the vehicle to M-AMG via your Market Support using the TIPS Case Module.

Please attach the following information to the TIPS case:

- Initial quick test log
- Sound recording

Note: Observe SI00.00-P-0086A

Creating a sound recording (see attachment "Measuring point"):

- X = Measuring point (central relative to vehicle)
- A = Approx. 1m behind the vehicle
- B = At height of approx. 1m behind the vehicle

OK examples of sound recordings for assessment in the attachment:

- Comparison file 1 = idling in drive program C
- Comparison file 2 = gentle throttle blip in drive program C
- Comparison file 3 = idling in drive program S+

XENTRY TIPS

Symptoms
Power generation / Exhaust system / Noises / Droning
Power generation / Exhaust system / Noises / Clanking
Power generation / Exhaust system / Noises / Rattling
Power generation / Exhaust system / Noises / Tweeting

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 000 989 91 51			Heat-resistant lubricant	1	Several vehicles can be treated with one can.	X
A 190 490 35 00			Rear muffler	1	SA code U78	X

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
			49022 36	

Attachments

Messpunkt für Soundfile.
jpg:

