

## Engine noises, M156

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Topic number	LI05.20-P-050105
Version	1
Design group	05.20 Camshaft, camshaft adjustment
Date	08-12-2010
Validity	Vehicles with M156 AMG
Reason for change	Remedy expanded / Supersedes DTB S-B-05.20/20b

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### Complaint:

Noises from area of engine control

Attachments	
File	Description
2_Rasseln_mit_einem_def_Versteller.mp3	Rattling with one defective camshaft adjuster
3_Rasseln_mit_mehreren_def_Verstellern.mp3	Rattling with several defective camshaft adjusters
4_Klackern_Tassenstossel.mp3	Clattering of cup tappets

### Cause:

Various causes that can lead to noise complaints

### Remedy:

The attachment contains various sound recordings to help with troubleshooting:

- [1. Rattling with one defective camshaft adjuster](#)
- [2. Rattling with several defective camshaft adjusters](#)

### Remedy:

1 and 2. Replace affected actuator(s) - camshaft adjusters

### Note:

See testing and repair information in WIS: Group 05.20

- [3. Clattering noise / cup tappets](#)

### Remedy:

1. Check cup tappets
2. If cup tappets are soft => Replace defective cup tappets
3. If cup tappets are worn => Replace all cup tappets on both cylinder banks, replace all camshafts on both cylinder banks

# XENTRY TIPS

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Note:

See testing and repair information in WIS: Group 05.00

Important:

Even if only one camshaft adjuster is replaced, it is absolutely essential to set the timing on both cylinder banks.

Note:

When setting timing, it might be helpful to use two sets of holding device part number W156 589 00 61 00 and locating plate part number W156 589 00 32 00. In addition, the backlash compensation compressing tool W156 589 01 63 00 for camshaft adjusters should be used.

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 156 050 35 47			Adjuster, camshaft, intake	as required	Order current part as per EPC	X
A 156 050 02 25			Valve tappet	as required	Order current part as per EPC	X
A 156 050 34 47			Adjuster, camshaft, exhaust	as required	Order current part as per EPC	X

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
			05050 36	
			05052 36	
			05319 36	

WIS-References			
Document number	Title	Note	Allocation
AR05.20-P-7201AMG	Remove/install camshaft adjuster		Remedy
AR05.00-P-2010AMG	Check hydraulic valve play compensation elements		Remedy
AR05.00-P-2011AMG	Remove/install hydraulic valve play compensation elements		Remedy