

Engine noises after engine start

Topic number	LI05.10-P-049909
Version	3
Design group	05.10 Timing chain drive, toothed belt drive
Date	04-18-2016
Validity	ENGINE 642
Reason for change	Removed Case Request
Reason for block	

Complaint:

Rattling or thumping noise from the area of the chain drive approx. 2-5 seconds after engine start.

Note:

It is essential to compare the noise of the complaint with the reference sound sample, see attachment "Sound".

Attachments	
File	Description
Sound.mp3	Rattling noise immediately after engine start.

Cause:

Timing chain may have stretched.

Remedy:

Check timing chain and replace if necessary.

Note:

The elongation of the timing chain is checked using the measuring chain tensioner W 642 589 03 63 00, see WIS references.

Measurement of the elongation of the timing chain must be documented.

The documentation must always be sent in together with the removed timing chain.

Symptoms
Power generation / Engine noise / Clattering
Power generation / Engine noise / Pounding

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 000 993 63 76			Double roller chain	1	Modified IC+ chain	X
A 000 993 71 76			Single roller chain	1		X

Operation numbers/damage codes

XENTRY TIPS

Op. no.	Operation text	Time	Damage code	Note
94-1013	ENGINE NOISE LOCATE		05111 49	
01-5011	VALVE COVERS		05111 49	
05-7601	TIMING CHAIN		05111 49	

WIS-References			
Document number	Title	Note	Allocation
AR05.10-P-7600CO	Check timing chain.	Model 204	Cause
AR05.10-P-7600GY	Check timing chain	Model 461, 463	Cause
AR05.10-P-7600GZB	Check timing chain	Model 164, 251	Cause
AR05.10-P-7600PI	Check timing chain	Model 203, 209	Cause
AR05.10-P-7600SXI	Check timing chain	Model 207, 212, 218, 221, 222	Cause
AR05.10-P-7600TI	Check timing chain	Model 211	Cause
AR05.10-P-7600TQ	Check timing chain	Model 219.322	Cause
AR05.10-P-7601	Replace timing chain	Observe validity for the models in question.	Remedy
AR05.10-P-7600OGR	Check timing chain	Model 166, 292	Cause

Validity		
Vehicle	Engine	Transmission
C (203)	642	*
C (204)	642	*
CLK (209)	642	*
CLS (218)	642	*
CLS (219)	642	*
E (211)	642	*
E (212)	642	*
G (461) - 461.304	642	*
G (461) - 461.305	642	*
G (461) - 461.330	642	*
G (461) - 461.333	642	*
G (461) - 461.334	642	*
G (461) - 461.340	642	*
G (461) - 461.343	642	*
G (461) - 461.344	642	*
G (461) - 461.346	642	*
G (461) - 461.371	642	*
G (461) - 461.391	642	*
G (461) - 461.392	642	*
G (463)	642	*

XENTRY TIPS

GL (164)	642	*
GL/GLS (166)	642	*
GLE (292)	642	*
GLK (204)	642	*
M (164)	642	*
M/GLE (166)	642	*
R (251)	642	*
S (221)	642	*
S (222)	642	*