

ENGINE 271.940 in MODEL 203.042 /242 /742, 209.342 /442

ENGINE 271.941 in MODEL 211.042 /242

ENGINE 271.946 in MODEL 203.046 /246 /746

ENGINE 271.948 in MODEL 203.040 /240 /740

ENGINE 271.921 in MODEL 203.730

ENGINE 271.955 in MODEL 209.341 /441

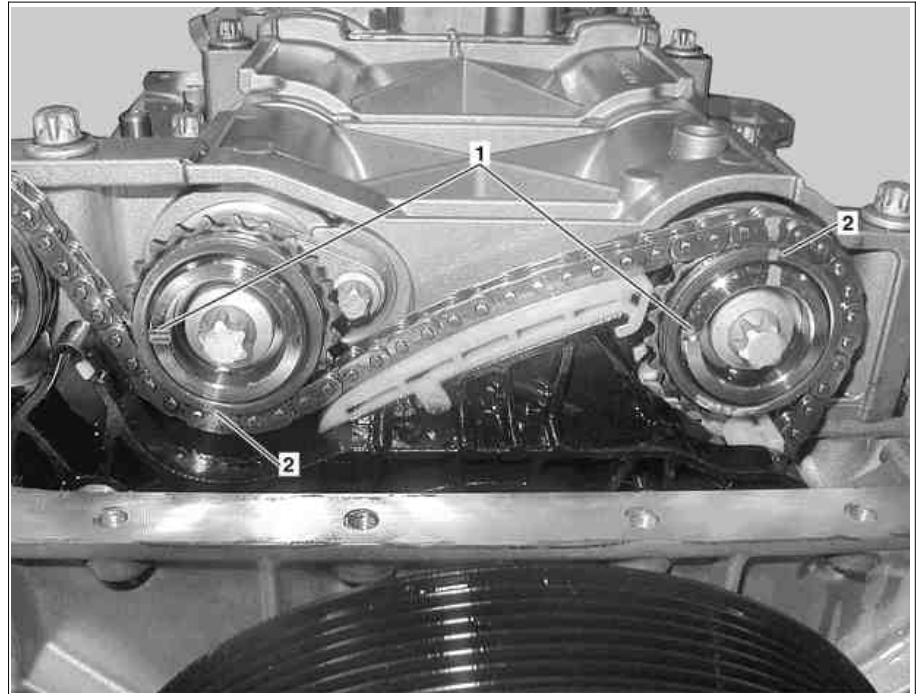
ENGINE 271.956 in MODEL 211.041 /241

ENGINE 271.942 in MODEL 203

ENGINE 271.957 in MODEL 203.741

1 Grooves

2 Markings



P03.30-2039-06

3 Pulley

4 Bolt

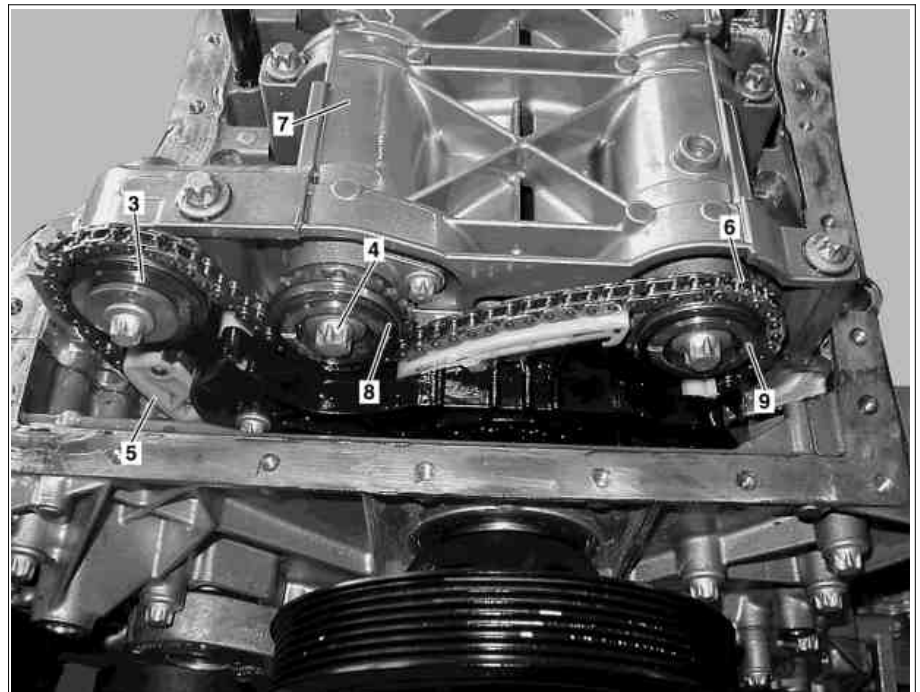
5 Slide rail

6 Drive chain

7 Lanchester differential housing

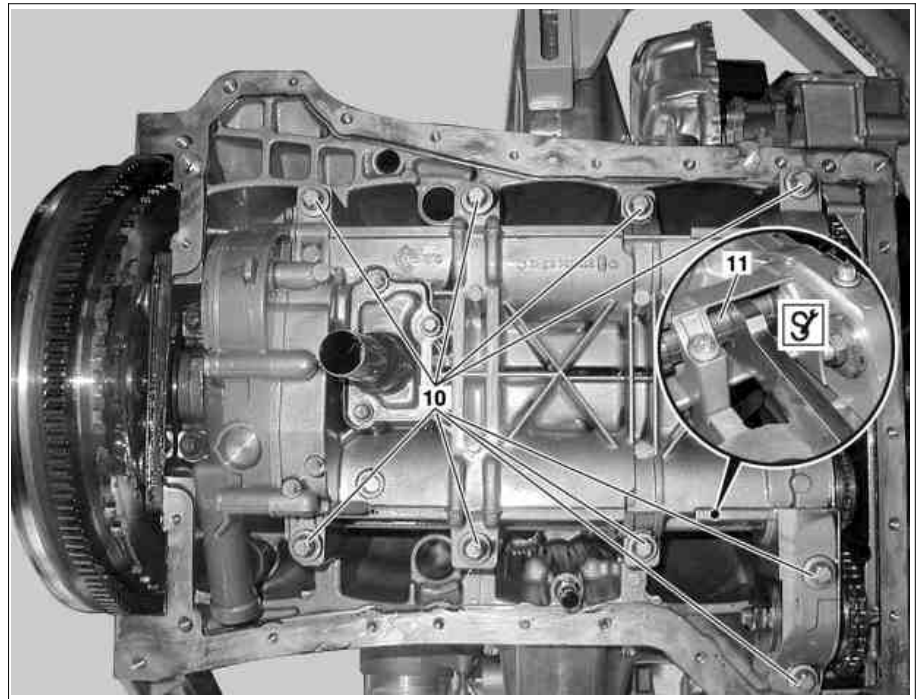
8 Drive gear

9 Drive gear



P03.30-2033-06

- 10 Bolts
- 11 Square



P03.30-2040-06

**Modification notes**

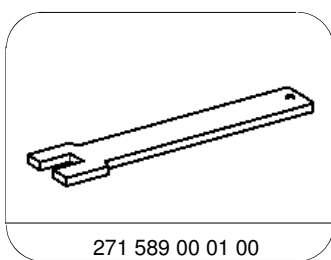
13.1.10	Value modified: Bolt, drive gear to Lanchester balance shaft, M14		*BA03.20-P-1001-02C
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	<b>Removing</b>		
<b>Danger!</b>	<b>Risk of death</b> caused by vehicle slipping or toppling off the lifting platform.	Align vehicle between columns of vehicle lift and position four support plates at vehicle lift support points specified by vehicle manufacturer.	AS00.00-Z-0010-01A
1	Remove oil pan	Model 203, 209 Model 211	AR01.45-P-7500QK AR01.45-P-7500TK
2	Spin engine at crankshaft in direction of rotation until piston in first cylinder is positioned on TDC	The grooves (1) at the drive gears (8, 9) for Lanchester-balance shaft are horizontal and point in direction of guide pulley (3).	
3	Identify drive chain (6) and drive gears (8, 9) to each other with the markings (2)		
4	Remove bolts (4) of drive gear (8)	Counterhold Lanchester balance shaft Open-end wrench	*271589000100
5	Press slide rail (5) at chain tensioner to the inside and remove drive chain (6).	Press slide rail (5) to the inside with suitable assembly lever.	
6	Remove drive gear (8)		
7	Remove bolts (10) of Lanchester-differential housing (7)	Slacken bolts (10) of Lanchester-differential housing (7) in reverse order of tightening pattern: Tightening pattern for Lanchester differential housing	AR03.20-P-1100-01QK
8	Remove Lanchester-differential housing (7)		
9	Remove transfer tube between oil pump and crankcase from crankcase		
10	Remove oil pump	Only when the Lanchester differential housing (7) is replaced.	AR18.10-P-6020QK
	<b>Install</b>		
11	Install oil pump	Only when the Lanchester differential housing (7) was replaced.	AR18.10-P-6020QK
12	Insert transfer tube between oil pump and crankcase into crankcase		
13	Clean separating surface between Lanchester differential housing (7) and crankcase		
14	Draft Lanchester-differential housing (7)	Pay attention to correct seating of the transfer tube between oil pump and crankcase and guide sleeves.	
15	Fasten Lanchester-differential housing (7) with bolts (10).	Observe tightening pattern of bolts (10).	AR03.20-P-1100-01QK

			*BA03.20-P-1002-02C
16	Slide drive gear (8) on Lanchester-balance shaft and fasten with bolt (4)	For this step, press Lanchester balance shaft forward and twist if required. When fastening the bolt (4), counterhold Lanchester-balance shaft at square (11).  Open-end wrench	*BA03.20-P-1001-02C *271589000100
17	Press slide rail (5) at chain tensioner to the inside and draft drive chain (6) on drive gears (8, 9) and guide pulley (3)	Press slide rail (5) to the inside with suitable assembly lever. The scribe marks on the drive chain (6) must match the scribe marks of the drive gears (8, 9).	
18	Spin engine at crankshaft and check installation of Lanchester-balance shaft	Grooves (1) at the drive gears (8, 9) must be horizontal to crankcase and point in direction of guide pulley (3).	
19	Installing oil pan	Model 203, 209 Model 211	AR01.45-P-7500QK AR01.45-P-7500TK
	<b>Check</b>		
<b>Danger!</b>	<b>Risk of accident</b> caused by vehicle starting off by itself when engine is running. <b>Risk of injury</b> caused by contusions and burns during starting procedure or when working near the engine as it is running Check for leaktightness when engine is running	Secure vehicle to prevent it from moving by itself. Wear closed and snug-fitting work clothes. Do not touch hot or rotating parts.	AS00.00-Z-0005-01A
20			

**Balance shaft**

Number	Designation	Engine 271		
BA03.20-P-1001-02C	Bolt, drive gear to Lanchester balance shaft	M8	Nm	22
		M14	Nm	100
BA03.20-P-1002-02C	Bolt, Lanchester balance housing to crankcase	Stage 1	Nm	20
		Stage 2	4°	90



271 589 00 01 00

Open end wrench