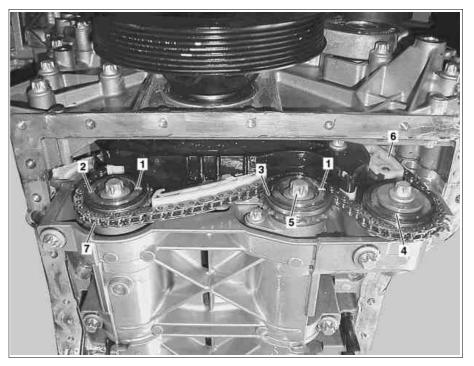
ENGINE 271 in MODEL 171, 203, 209, 211

- Grooves
- 2 Drive gear
- 3 Drive gear
- 4 Pulley
- Screw
- 5 6 Slide rail
- Timing chain



P03.30-2059-06

Modification notes

13.1.10	Value modified: Bolt, drive gear to Lanchester balance	*BA03.20-P-1001-02C
	shaft, M14	

X	Removing		
⚠ Danger!	Risk of death caused by vehicle slipping or toppling off the lifting platform.	Align vehicle between the columns of the lifting platform and position the four support plates at the lifting platform support points specified by the vehicle manufacturer.	AS00.00-Z-0010-01A
1	Raise vehicle		
2	Remove oil pan	Model 171	AR01.45-P-7500V
		Model 203, 209	AR01.45-P-7500QK
		Model 211	AR01.45-P-7500TK
3	Crank engine at crankshaft in direction of rotation until piston on first cylinder is positioned at TDC	The grooves (1) at the drive gears (2, 3) for Lanchester-balance shaft are horizontal and point in direction of the guide pulley (4).	
4	Counterhold Lanchester-balance shaft with open wrench and unscrew bolt (5) of drive gear (3)	Ø Open-end wrench	*271589000100
5	Press slide rail (6) at chain tensioner to the inside and remove timing chain (7)		
6	Remove drive gear (3)		
7	Disconnect timing chain (7) for Lanchester balancer		AR03.20-P-1200-01Q
		S Case	*602589009800
		S Chain separating tool	*602589023300
		Thrust spindle	*602589046300
		Pressure pins	*602589046301
X	Install	Troopers pine	
<u></u> 8	Pull in timing chain of Lanchester balancer		AR03.20-P-1200-03Q
(-		S Case	*602589009800
		S Assembly links	*602589024000
9	Rivet timing chain of Lanchester balancer		AR03.20-P-1200-02Q
		S Case	*602589009800
		S Assembly inserts	*271589026300
		Riveting tool	*602589003900
10	Slide drive gear (3) onto Lanchester-balance shaft and fasten with bolt (5)	Nm	*BA03.20-P-1001-02C

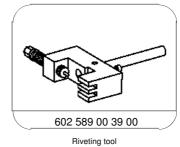
11	Rotate engine at crankshaft in direction of rotation until piston in the first cylinder is positioned at TDC	Grooves (1) on drive wheels (2, 3) of the Lanchester balance shafts must be horizontal and must point in the direction of the guide pulley (4). Otherwise this can lead to a rough running of the engine.	
12	Installing oil pan	Model 171	AR01.45-P-7500V
		Model 203, 209	AR01.45-P-7500QK
		Model 211	AR01.45-P-7500TK
⚠ Danger!	Risk of accident caused by vehicle starting	Secure vehicle to prevent it from moving by	AS00.00-Z-0005-01A
3011	off by itself when engine is running. Risk of	itself.	
	injury caused by contusions and burns	Wear closed and snug-fitting work clothes.	
	during starting procedure or when working near the engine as it is running	Do not touch hot or rotating parts.	
13	Check for leaks with engine running		

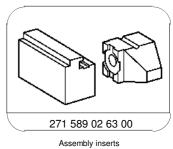
Nm Balance shaft

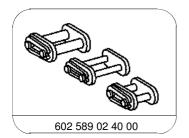
Number	Designation			Engine 271
BA03.20-P-1001-02C	Bolt, drive gear to Lanchester balance shaft	M8	Nm	22
		M14	Nm	100











Assembly links

