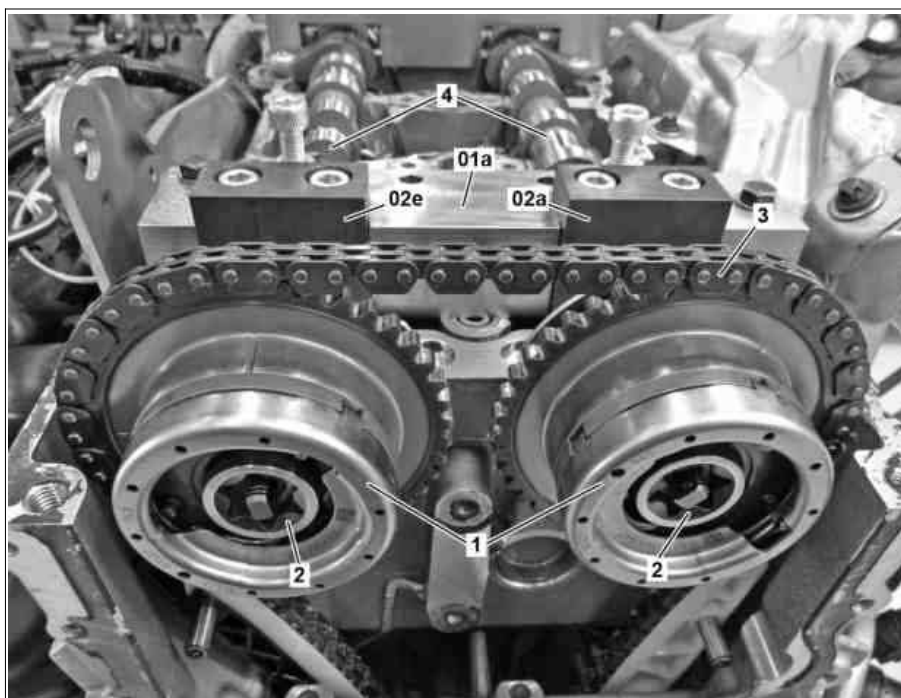


Engine 274.9 in model 205





Engine 274.9 in model 253


- 01a Hold-down tool  
 02a Holding device  
 02e Holding device  
 1 Camshaft positioner  
 2 Control valves  
 3 Timing chain  
 4 Camshafts



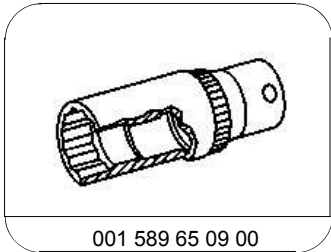
P05.20-2362-06

Caution	<b>Risk of injury</b> caused by scraping or cutting body parts on sharp vehicle parts	Always wear protective gloves when working on or near sharp and non-deburred vehicle parts. Deburr repair panels.	AS00.00-Z-0017-01A
Caution	<b>Risk of injury</b> to skin and eyes due to handling of engine oil. <b>Risk of poisoning</b> caused by swallowing engine oil	Wear protective gloves, protective clothing and safety glasses. Do not fill engine oil into beverage containers.	AS18.00-Z-0001-01A
	Notes on avoiding damage through contamination and foreign objects		AH00.00-P-5000-01A
	Notes on threaded connections fastened using a tightening angle-based tightening process		AH00.00-P-0020-01A
	<b>Remove/install</b>		
1	Remove engine air intake duct upstream of air filter		
2	Rotate engine at crankshaft center bolt in direction of engine rotation to top dead center (TDC) on cylinder 1	The TDC marking on belt pulley/ vibration damper must be aligned with positioning edge on timing case cover. Socket wrench bit	*001589650900
3	Remove cylinder head cover	<b>Installation:</b> Only install upper engine cover after the leak test.	AR01.20-P-5014MRA
4	Mount hold-down tool (01a) for camshafts (4) with holding devices (02a, 02e) for the camshafts (4)	Holding device	*270589016100
5	Remove the chain tensioner		AR05.10-P-7800MRA
6	Unfasten control valve (2) for the respective camshaft positioner (1) and remove	<b>Installation:</b> Wet thread and the bolt head contact surface of the control valve (2) with engine oil. Tighten control valve (2) evenly without discontinuity using the specified torque. Center valve, pulse wheel/camshaft adjuster to camshaft Socket Holding device	BB00.40-P-0223-02A  *BA05.20-P-1002-02K  *271589001000  *270589016100
BB	Specified engine oils (service) - Overview		

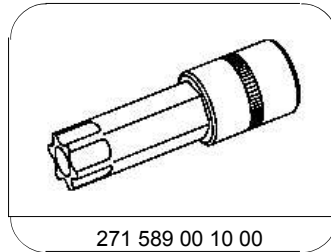
7	Remove camshaft positioners (1) from camshafts (4)	 The timing chain (3) must be laid on or taken off for assembly or disassembly of the camshaft positioner (1).	
8	Install in the reverse order		
	<b>Check</b>		
9	Rotate engine at center bolt of crankshaft in direction of engine rotation twice and place piston for cylinder 1 at top dead center (ignition TDC)	 Socket wrench bit	*001589650900
10	Check basic position of camshafts (4)	If the basic position is not correct ↓ Adjust basic position of camshafts (4).	AR05.20-P-6010MRA
 Warning	<b>Risk of accident</b> from vehicle starting off by itself when engine running. <b>Risk of injury</b> (bruises and burns) resulting from working on the engine while it is being started or when it is running.	Secure vehicle to prevent it from starting off by itself. Wear buttoned-up and snug-fitting work clothes. Do not touch hot or rotating parts.	AS00.00-Z-0005-01A
11	Carry out an engine test run, checking the engine for leaktightness and proper operation		
12	Install upper engine cover		

 Camshaft, camshaft adjustment

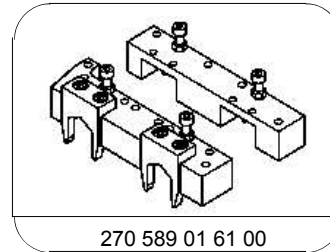
Number	Designation		Engine 274
BA05.20-P-1002-02K	Center valve, pulse wheel/camshaft adjuster to Stage 1 camshaft	Nm	18
	Stage 2	Δ°	45



Socket wrench bit



Socket



Holding device