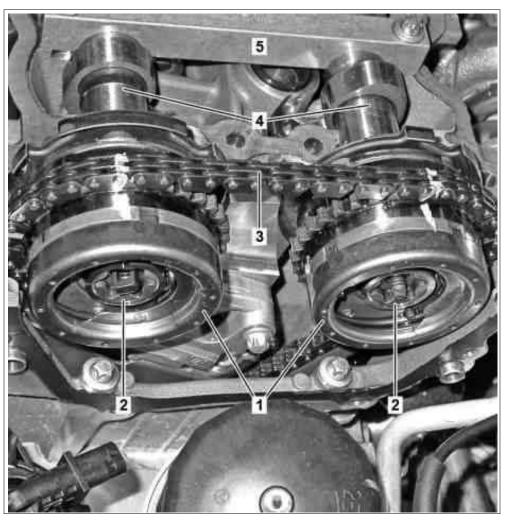
Document title Remove/install camshaft adjusters

Document number ar0520p7201els

Engine 276.8 in model 207, 212, 218

Shown on left cylinder head

- 1 Camshaft positioner
- 2 Control valve
- 3 Timing chain
- 4 Camshafts
- 5 Hold-down tool



P05.20-2396-12

X	Remove/install		
1	Unfasten charge air cooler and press to the front with attached coolant lines		AR09.41-P-6819ELS
2	Rotate engine at crankshaft center bolt in direction of engine rotation to a 40°crank angle (CA) after top dead center (TDC) on cylinder 1 (ignition TDC)		AR05.10-P-7620-04MM
3	Remove right or left cylinder head cover	Left cylinder head cover	AR01.20-P-5013ELS
		Right cylinder head cover	AR01.20-P-5012ELS
4	Mount hold-down tool (5) on camshafts (4)	Tie-down set	*276589014000
5	Remove right or left chain tensioner	MODEL 207	AR05.10-P-7800FH
		MODEL 212, 218	AR05.10-P-7800EL
6	Loosen control valve (2) and remove	i To loosen and tighten control valve (2) the camshafts (4) must be counterheld at their rear ends by a helper using a Torx T 60.	
		i Installation: The thread and bolt head contact surface of the control valve (2) must be oiled. The control valve (2) must be tightened down evenly without discontinuity with torque.	
		Center valve, pulse wheel/camshaft adjuster to camshaft	
_		Socket	*271589001000
7	Remove camshaft positioner (1) from camshaft (4)	Installation: The camshaft positioners (1) must not be mixed up with each other.	
		i Installation: Check basic position of camshafts (4) and adjust if necessary.	
		Set the basic position of camshaft (4).	
		↓	
		MODEL 207	AR05.20-P-6020FHA
		MODEL 212, 218	AR05.20-P-6020EL
8	Remove timing chain (3) from camshaft positioners (1)	is placed first on the camshaft positioner (1) for the intake camshaft and then on the camshaft positioner (1) for the exhaust camshaft. The left hand timing chain (3) is placed first on the camshaft positioner (1) for the exhaust camshaft and then on the camshaft positioner (1) for the intake camshaft.	
9	Install in the reverse order	intako odingilari.	

<u> </u>	itself. Wear closed and snug-fitting work clothes.	AS00.00-Z-0005-01A
Perform an engine test run and check engine for functionality		

Nm Camshaft, camshaft adjustment

Number	Designation	Engine 276		
BA05.20-P-1009-02A	Center valve, pulse wheel/camshaft adjuster to camshaft	Stage 1	Nm	130
		Stage 2	خ ک	_

