

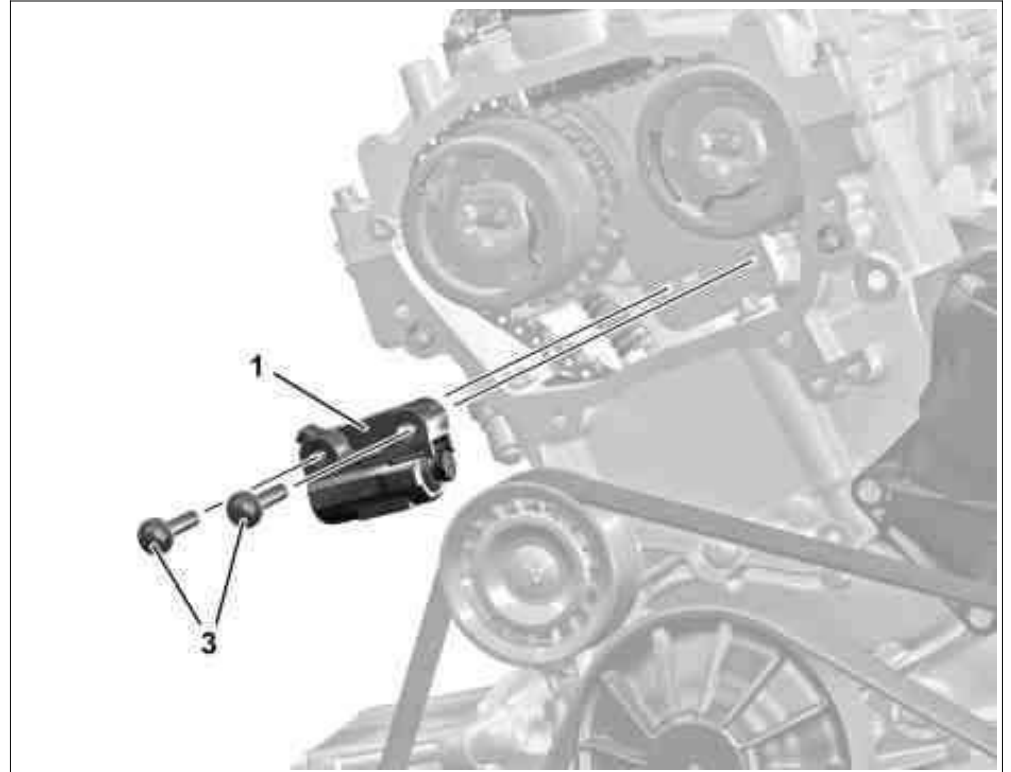
Document title Remove/install chain tensioner

Document number ar0510p7800el

Engine 276 in model 212, 218

Shown on right chain tensioner

- 1 Chain tensioner
3 Screw/bolts



P05.10-2418-11

☒ ☒	Remove/install		
1	Unfasten charge air cooler and place with attached coolant line to one side	Engine 276.8 in model 212, 218	AR09.41-P-6819ELS
2	Remove low-temperature circuit expansion reservoir with carrier	Engine 276.8 in model 212	AR09.41-P-0002ELS
3.1	Rotate engine at crankshaft center bolt in direction of engine rotation to a 40° crank angle (CKA) after top dead center (TDC) on cylinder 1 (ignition TDC)	To remove the left chain tensioner (1) ⓘ For a removed cylinder head cover the engine musty not be turned without a mounted hold-down tool. Damage will occur to the camshafts and cylinder head otherwise. ☒ Socket wrench bit ☒ Tie-down set	AR05.10-P-7620-04MM *001589650900 *276589014000
3.2	Rotate engine at crankshaft center bolt in direction of engine rotation to a 40° crank angle after top dead center (overlap TDC) on cylinder 1 (overlap TDC)	To remove the right chain tensioner (1) ⓘ For a removed cylinder head cover the engine musty not be turned without a mounted hold-down tool. Damage will occur to the camshafts and cylinder head otherwise. ☒ Socket wrench bit ☒ Tie-down set	AR05.10-P-7620-04MM *001589650900 *276589014000
4 AP	Remove oil filter element	To remove the left chain tensioner (1) Nm Mount, oil filter housing cover ☒ Wrench socket	AP18.00-P-0101-06V *BA18.20-P-1001-01Y *103589020900
5.1	Remove left front cover at cylinder head	To remove the left chain tensioner (1) Engine 276.9 in model 212, 218 Engine 276.8 in model 212	AR01.30-P-5700ELL AR01.30-P-5711ELS
5.2	Remove right front cover at cylinder head	To remove the right chain tensioner (1) Engine 276.9 in model 212, 218 Engine 276.8 in model 212	AR01.30-P-5700ELR AR01.30-P-5712ELS

6	Remove screw/bolts (3) for chain tensioner (1) and remove chain tensioner (1)	<p>i Installation: After installation of the chain tensioner (1) the chain tensioner (1) is activated after pulling the securing drift. The chain tensioner (1) moves out and tensions the timing chain. The chain tensioner (1) should be replaced by a new part if this is not the case.</p> <p>Nm Screw/bolt, chain tensioner to cylinder crankcase/cylinder head</p>	*BA05.10-P-1001-01R
	Check		
7	Check chain tensioner (1) and replace if necessary	<p>i The chain tensioner (1) may only now be reset and reused if it did not have any noticeable problems during previous operation and all components of the chain drive do not show any signs of damage or no components of the chain drive were replaced.</p> <p>i The chain tensioner (1) is pretensioned by an internal spring and moves out autonomously when being removed.</p> <p>The chain tensioner (1) does not move out on its own:</p> <p style="text-align: center;">↓</p> <p>Replace chain tensioner (1).</p>	
8	Reset chain tensioner (1)	<p>When reusing the chain tensioner (1)</p> <p>Chain tensioner for left engine side basic dimension/extended dimension</p> <p>Chain tensioner for right engine side basic dimension/extended dimension</p>	<p>AR05.10-P-7800-03MM</p> <p>*BE05.10-P-1001-02A</p> <p>*BE05.10-P-1002-02A</p>
9	Install in the reverse order		
10	<p>Risk of accident from vehicle starting off by itself when engine running. Risk of injury (bruises and burns) resulting from working on the engine while it is being started or when it is running.</p> <p>Carry out an engine test run and check engine for leaktightness</p>	<p>Secure vehicle to prevent it from starting off by itself. Wear closed and snug-fitting work clothes. Do not touch hot or rotating parts.</p>	AS00.00-Z-0005-01A

Basic dimension/extended dimension

Number	Designation	Engine 276
BE05.10-P-1001-02A	Chain tensioner for left engine side basic dimension/extended dimension mm	74,5

Basic dimension/extended dimension

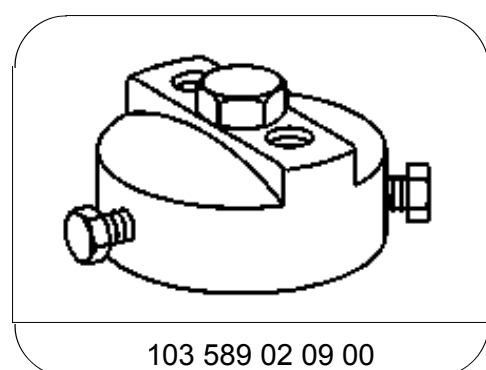
Number	Designation	Engine 276
BE05.10-P-1002-02A	Chain tensioner for right engine side basic dimension/extended dimensionmm	74,5

Nm Timing chain, chain tensioner

Number	Designation	Engine 276
BA05.10-P-1001-01R	Screw/bolt, chain tensioner to cylinder crankcase/cylinder head Nm	9

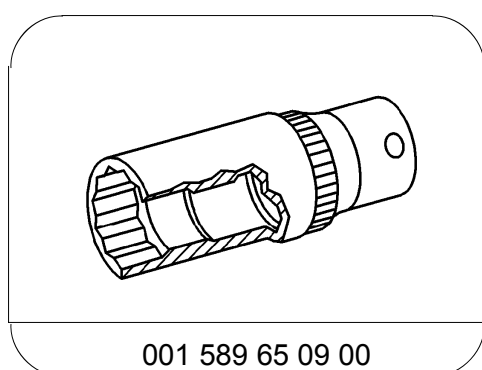
Nm Oil filter

Number	Designation	Engine 276
BA18.20-P-1001-01Y	Mount, oil filter housing cover Nm	25



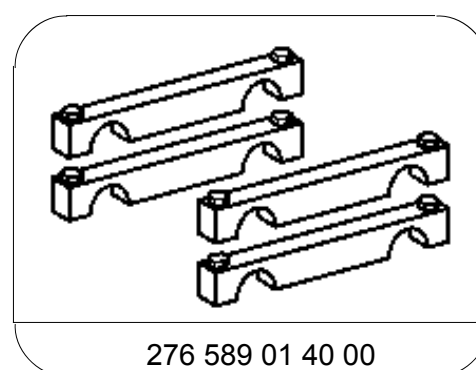
103 589 02 09 00

Wrench socket



001 589 65 09 00

Socket wrench bit



276 589 01 40 00

Tie-down set