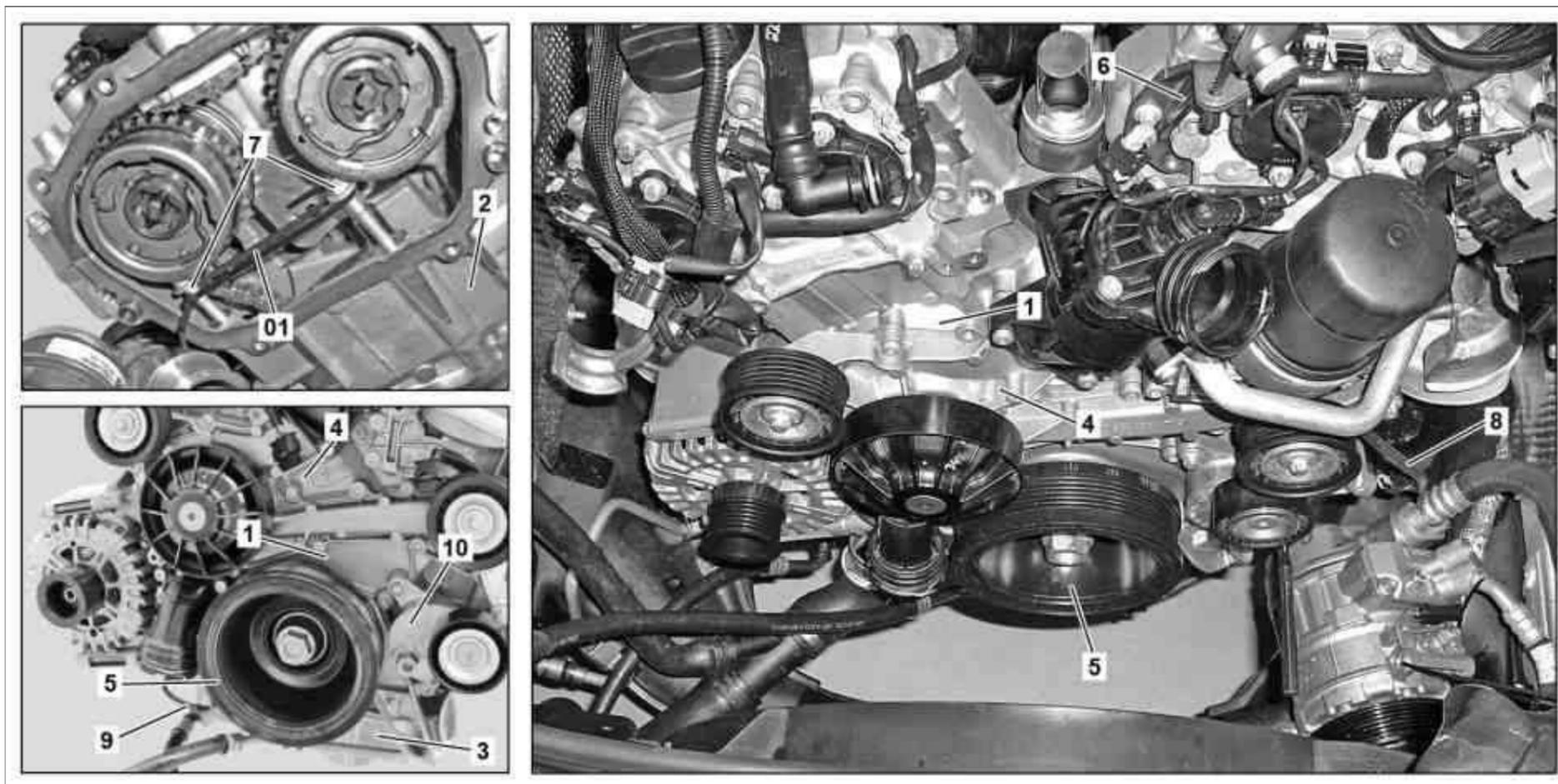


Document title Remove/install timing case cover

Document number ar0140p8000els

Engine 276.8 in model 207, 212, 218



P01.40-2276-09

01 Cable tie
1 Timing case cover
2 Cylinder head

3 Oil pan
4 Coolant pump
5 Belt pulley/vibration damper

7 Bolts
9 Electrical line
10 Tensioning device

 	Remove/install		
 Warning	Risk of injury to skin and eyes suffering scalding from contact with hot coolantspray. Risk of poisoning from swallowing coolant.	Do not open cooling system unless coolant temperature is below 90 °C. Open cap slowly and release the pressure. Do not pour coolant into beverage containers. Wear protective gloves, protective clothing and safety glasses.	AS20.00-Z-0001-01A
1	Drain off coolant Notes on coolant	MODEL 207 MODEL 212, 218	AR20.00-P-1142A AH20.00-N-2080-01A AR20.00-P-1142EL
2	Drain coolant in low-temperature circuit Notes on coolant	 The stop plug for the low-temperature circuit is located in the low-temperature circuit hose package at front right in engine compartment.	AH20.00-N-2080-01A
3	Remove right and left air filter housing		AR09.10-P-1150ELS
4	Remove both front covers	MODEL 207, 212, 218 Right cover, model 207, 212 Left cover, model 207, 212	AR01.30-P-5712ELS AR01.30-P-5711ELS
5	Remove charge air cooler		AR09.41-P-6819ELS
6	Remove belt pulley / vibration damper (5)	MODEL 207 MODEL 212, 218	AR03.30-P-1600FH AR03.30-P-1600EL
7	Remove oil pan (3)		AR01.45-P-7500ELS
8	Disconnect electrical connection for engine oil pump valve on oil pump		
9	Remove coolant pump(4)	MODEL 207 MODEL 212, 218	AR20.10-P-1271FH AR20.10-P-1271EL
10	Remove screw/bolts (7) for the cylinder head (2) at timing case cover (1)	 Remove screw/bolts (7) and fix with a cable tie (01).  Bolt, cylinder head to timing case cover	*BA01.30-P-1002-01W
11 	Remove oil filter element		AP18.00-P-0101CWZ
12	Remove tensioning device (10) on poly-V belt		AR13.20-P-0001ELS

13	Detach alternator from engine, place with attached lines to one side and secure against falling down	MODEL 207 MODEL 212, 218 Place alternator to one side and secure against falling down.	AR15.40-P-5032ELA AR15.40-P-5032EL
14	Disconnect electrical connection for engine oil pump valve on timing case cover (1)		
15	Unclip electrical line (9) for engine oil pump valve on timing case cover (1) and place to the side		
16	Detach A/C compressor from engine, place to one side and secure against falling down	Do not separate refrigerant lines. Screw/bolt, refrigerant compressor to timing case/crankcase/engine support	*BA83.55-P-1001-01M
17	Remove screw/bolts of timing case cover (1)	Installation: Pay attention to different screw/bolt lengths and screw/bolt diameters. Bolt, timing case cover to crankcase	AR01.40-P-8000-01MMA *BA01.40-P-1001-01K
18	Detach timing case cover (1) Notes on sealant path for timing case cover	Installation: Replace both seals in timing case cover (1) and apply sealant on sealing surface of the timing case cover (1):. Installation: The front crankshaft radial shaft sealing ring must be installed new. Replace front crankshaft radial shaft sealing ring ↓ MODEL 207 MODEL 212, 218	AH01.40-P-1000-01MMA AR03.20-P-3000FH AR03.20-P-3000EL
	Clean		
19	Clean sealing surfaces	One must not use sharp-edged tooling or abrasive paper. The sealing surfaces can get damaged otherwise. Loctite 7063 (400 ml) cleaning spray Loctite 7200	AR01.00-P-0050-01A *BR00.45-Z-1046-04A *BR00.45-Z-1038-04A
20	Install in the reverse order		
21	Check engine oil level; correct if necessary		AP18.00-P-0101CWZ
22	Check cooling system for leaktightness	MODEL 207 MODEL 212, 218	AR20.00-P-1010ELA AR20.00-P-1010EL
Warning	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.	Secure vehicle to prevent it from starting off by itself. Wear closed and snug-fitting work clothes. Do not touch hot or rotating parts.	AS00.00-Z-0005-01A
23	Carry out an engine test run and check engine for leak tightness		

Cylinder head

Number	Designation	Engine 276
BA01.30-P-1002-01W	Bolt, cylinder head to timing case cover M7	Nm 14

Crankcase, timing case cover, end cover

Number	Designation	Engine 276
BA01.40-P-1001-01K	Bolt, timing case cover to M6 crankcase	Nm -
	M8 Stage 1	Nm 10
	Stage 2	Nm 20
	M10	Nm -

Refrigerant compressor

Number	Designation	Engine 276
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BA83.55-P-1001-01M	Screw/bolt, refrigerant compressor to timing case/crankcase/engine support	Nm	20
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Repair materials

Number	Designation	Order number
BR00.45-Z-1038-04A	Loctite 7200	Henkel AG & Co. KGaA http://www.loctite.de
BR00.45-Z-1046-04A	Loctite 7063 (400 ml) cleaning spray	A 001 986 71 71 09