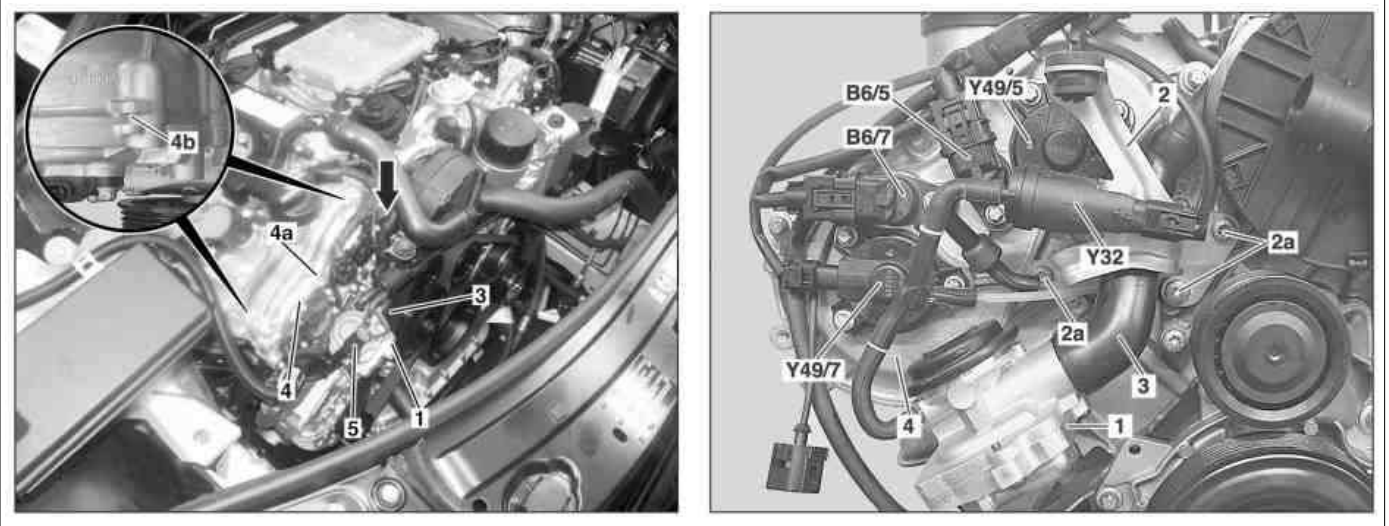


ENGINE 272, 273 in MODEL 164, 251

Cylinder head on the right

P01.30-2272-08

Shown without air filter

1	Air shutoff valve	4b	Prying lugs	Y32	Air pump switchover valve
2	Bracket	5	Oil dipstick guide tube	Y49/5	Right intake camshaft solenoid
2a	Bolts			Y49/7	Right exhaust camshaft solenoid
3	Hose	B6/5	Right intake camshaft Hall sensor		
4	Front cover	B6/7	Right exhaust camshaft Hall sensor		
4a	Bolts				

Modification notes

20.8.09	Remove power electronics with power distributor	Step 2.2	AR08.10-P-0011GZH
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	Remove/install		
Danger!	Risk of injury caused by fingers being pinched or crushed when removing, installing or aligning hoods, doors, trunk lids, liftgates or sliding roof	Keep body parts and limbs well clear of moving parts.	AS00.00-Z-0011-01A
	Information on preventing damage to electronic components due to electrostatic discharge		AH54.00-P-0001-01A
1	Switch off ignition and remove the transmitter key from the EIS [EZS] control unit	On vehicles with code (889) Keyless Go: Press keyless go start/stop button repeatedly until ignition is switched off. Remove transmitter key from vehicle and store it in a location beyond its transmission range (at least 2 m).	
2.1	Remove front engine cover and right engine intake air duct	Except engine 272.973 in model 164.195	
2.2	Remove power electronics with power distributor	Engine 272.973 in model 164.195	AR08.10-P-0011GZH
3	Remove air shutoff valve (1) at the right cylinder head		AR14.30-P-7200GZA
4	Remove bolts (2a) and set bracket (2) for front engine cover with air pump switchover valve (Y32) to one side	Do not detach lines at the air pump switchover valve (Y32). 	*BA01.30-P-1009-01O
5	Remove hose (3)		
6	Disconnect electrical connectors at right camshaft intake solenoid (Y49/5) and at right camshaft exhaust solenoid (Y49/7)		
7	Disconnect electrical connectors at right intake camshaft Hall sensor (B6/5) and at right exhaust camshaft Hall sensor (B6/7)		
8	Unscrew oil dipstick guide pipe (5) on front cover (4)		*BA01.30-P-1006-01O
9	Undo bolts (4a) on front cover (4)	6 bolts. 	*BA01.30-P-1006-01O

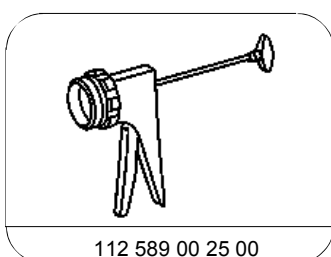
10	Carefully loosen front cover (4) on prying lugs (4b) and detach to the front	<p>i Observe fitted sleeves in area of the outer threaded connections (arrow).</p> <p>i Installation: Apply sealant to front cover (4).</p> <p>S</p> <p>Loctite sealant 5970</p>	<p>AH01.30-P-1000-02V</p> <p>*112589002500</p> <p>*BR00.45-Z-1013-01A</p>
i	Notes on sealant path for front cover to cylinder head		
TP	Clean		
11	Clean sealing surfaces on front cover (4), on cylinder head cover and on cylinder head	<p>! Do not use any sharp-edged tools or abrasive paper as this will damage the sealing surfaces.</p> <p>Loctite 7200</p> <p>Cleaning spray, Loctite 7063 (150ml)</p>	<p>AR01.00-P-0050-01A</p> <p>*BR00.45-Z-1038-04A</p> <p>*BR00.45-Z-1046-04A</p>
12	Remove right intake camshaft Hall sensor (B6/5) and right exhaust camshaft Hall sensor (B6/7)	<p>i When replacing the front cover (4)</p> <p>Nm</p>	*BA15.10-P-1002-03E
13	Remove right camshaft intake solenoid (Y49/5) and right camshaft exhaust solenoid (Y49/7)	<p>i When replacing the front cover (4)</p> <p>Nm</p>	*BA15.10-P-1003-03E
14	Install in the reverse order		
◀	Checking		
⚠ Danger!	Risk of accident caused by vehicle starting off by itself when engine is running. Risk of injury caused by contusions and burns during starting procedure or when working near the engine as it is running	Secure vehicle to prevent it from moving by itself. Wear closed and snug-fitting work clothes. Do not touch hot or rotating parts.	AS00.00-Z-0005-01A
15	Conduct engine test run and check engine for leaks		

Nm Cylinder head

Number	Designation		Engine 272	Engine 273
BA01.30-P-1006-01O	Bolt, front cover to cylinder head	M6	Nm 9	9
BA01.30-P-1009-01O	Bolt, switchover valve bracket to cylinder head	M6	Nm 9	9

Nm Position sensor

Number	Designation		Engine 272	Engine 273
BA15.10-P-1002-03E	Bolt, camshaft Hall sensor to front cover on cylinder head	Nm	8	8
BA15.10-P-1003-03E	Bolt, camshaft solenoid to front cover to cylinder head	Nm	8	8



112 589 00 25 00

Squeeze gun

Repair materials

Number	Designation	Order number
BR00.45-Z-1013-01A	Loctite sealant 5970	A 003 989 98 20
BR00.45-Z-1038-04A	Loctite 7200	Henkel Loctite Deutschland GmbH Arabellastrasse 17 81925 München Germany Tel. +49 899268-0 Fax + 49 899101978 www.Loctite.de
BR00.45-Z-1046-04A	Cleaning spray, Loctite 7063 (150ml)	A 001 986 71 71 10