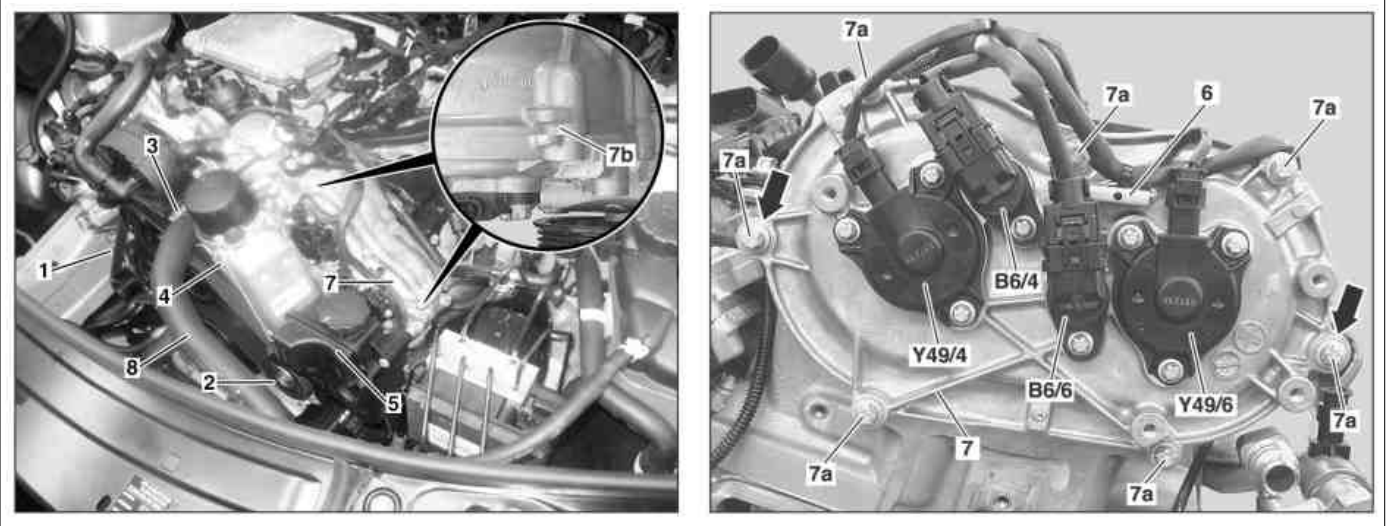


ENGINE 272, 273 in MODEL 164, 251

Cylinder head on the left



P01.30-2273-08

## Shown without air filter housing

1	Poly-V-belt	7	Front cover	B6/6	Left exhaust camshaft Hall sensor
2	Poly-V belt tensioning device	7a	Bolts	Y49/4	Left intake camshaft solenoid
3	Coolant thermostat housing	7b	Prying lugs	Y49/6	Left exhaust camshaft solenoid
4	Oil filter housing	8	Coolant hose		
5	Power steering expansion reservoir				
6	Clamp	B6/4	Left intake camshaft Hall sensor		

## Modification notes

20.8.09	Remove power electronics with power distributor	Step 3.2	AR08.10-P-0011GZH
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	Remove/install		
<b>Danger!</b>	<b>Risk of death</b> caused by vehicle slipping or toppling off the lifting platform.	Align vehicle between columns of vehicle lift and position four support plates at vehicle lift support points specified by vehicle manufacturer.	AS00.00-Z-0010-01A
<b>Danger!</b>	<b>Risk of injury</b> caused by <b>fingers being pinched or crushed</b> 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
<b>Danger!</b>	<b>Risk of injury</b> to skin and eyes caused by scalding from contact with hot coolant spray. <b>Risk of poisoning</b> caused by 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
	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 [EVS] 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	Drain coolant at radiator Notes on coolant		AR20.00-P-1142GZC AH20.00-N-2080-01A
3.1	Remove front engine cover and left engine intake air duct	Except engine 272.973 in model 164.195	
3.2	Remove power electronics with power distributor	Engine 272.973 in model 164.195	AR08.10-P-0011GZH
4	Remove poly-V belt (1) and poly-V belt tensioning device (2)		AR13.20-P-0001GZA
5	Remove coolant hose (8)		
6	Remove coolant thermostat housing (3)		AR20.10-P-2460GZA
7	Remove oil filter housing (4)		AR18.20-P-3471GZA

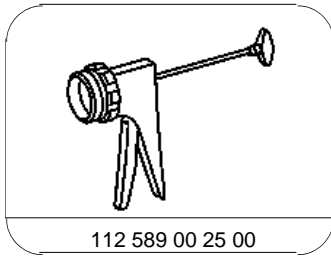
8	Remove power steering expansion reservoir (5)	Model 164 Model 251	AR46.25-P-1000GZA AR46.25-P-1000RT
9	Disconnect electrical connectors on left intake camshaft Hall sensor (B6/4) and left exhaust camshaft Hall sensor (B6/6)		
10	Disconnect electrical connectors on left camshaft intake solenoid (Y49/4) and left camshaft exhaust solenoid (Y49/6)		
11	Detach clamp (6)		
12	Remove bolts (7a) on front cover (7)		*BA01.30-P-1006-01O
13	Carefully loosen front cover (7) on lifting lugs (7b) and detach to the front  Notes on sealant path for front cover to cylinder head	Pay attention to fitted sleeves in area of outer threaded connections (arrows). <b>Installation:</b> Apply sealant to front cover (7).   Loctite sealant 5970	AH01.30-P-1000-02V  *112589002500 *BR00.45-Z-1013-01A
	<b>Clean</b>		
14	Clean sealing surfaces on cylinder head, on cylinder head cover and on front cover (7)	Do not use any sharp-edged tools or abrasive paper as this will damage the sealing surfaces. Loctite 7200 Cleaning spray, Loctite 7063 (150ml)	AR01.00-P-0050-01A  *BR00.45-Z-1038-04A *BR00.45-Z-1046-04A
15	Detach left intake camshaft Hall sensor (B6/4) and left exhaust camshaft Hall sensor (B6/6) from front cover (7)	When replacing the front cover (7)  	*BA15.10-P-1002-03E
16	Detach left camshaft intake solenoid (Y49/4) and left camshaft exhaust solenoid (Y49/6) from front cover (7)	When replacing the front cover (7)  	*BA15.10-P-1003-03E
17	Install in the reverse order		
	<b>Checking</b>		
<b>Danger!</b>	<b>Risk of accident</b> caused by vehicle starting off by itself when engine is running. <b>Risk of injury</b> 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
18	Conduct engine test run and check engine for leaks		

### Cylinder head

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

### 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