

ENGINES 272.920 in MODELS 203.052 /252 /752

Left cylinder head cover

ENGINES 272.940 in MODELS 203.054 /254, 209.354 /454

Left cylinder head cover

ENGINES 272.960 in MODELS 203.056 /256 /756, 209.356 /456

Left cylinder head cover

ENGINES 272.970 in MODELS 203.087 /287

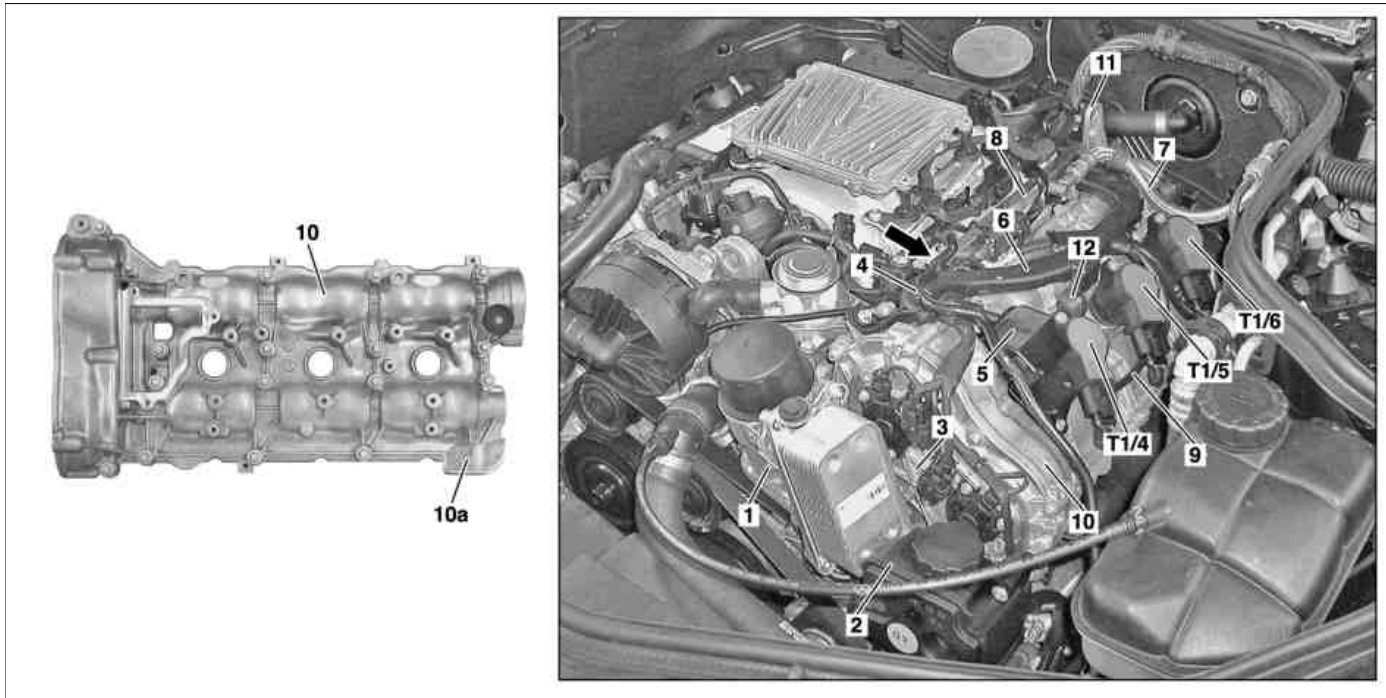
Left cylinder head cover

ENGINES 272.941 in MODEL 203.092 /292

Left cylinder head cover

ENGINES 273 in MODEL 209























Left cylinder head cover



P01.20-2126-09

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|--------------------------------------|--------------------|------------------------|
| 1 Oil filter housing | 6 Feed duct | 10 Cylinder head cover |
| 2 Power steering expansion reservoir | 7 Fuel pipe | 10a Heat shield |
| 3 Front cover | 8 Fuel distributor | 11 Engine lifting eye |
| 4 Purge line | 9 Ground cable | 12 Rubber mount |
| 5 Oil separator | | |

☒ ☒	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
⚠ Danger!	Risk of death caused by vehicle slipping or toppling off of 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
⚠ Danger!	Risk of injury to skin and eyes caused by scalding from contact with hot coolant spray. Risk of poisoning 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
⚠ Danger!	Risk of explosion caused by fuel igniting, risk of poisoning caused by inhaling and swallowing fuel and risk of injury to eyes and skin caused by contact with fuel	No fire, sparks, open flames or smoking. Pour fuels only into suitable and appropriately marked containers. Wear protective clothing when handling fuel.	AS47.00-Z-0001-01A
1	Turn key in ignition lock to position "0"		
2	Open engine hood and raise to vertical position	Model 203	AR88.40-P-1000P
		Model 209	AR88.40-P-1000Q
3	Raise vehicle with vehicle lift		AR00.60-P-1000P
4	Remove bottom engine compartment paneling		AR61.20-P-1105P

5	Drain coolant at radiator		AR20.00-P-1142QB
6	Remove air filter housing		AR09.10-P-1150QB
7	Remove poly-V belt		AR13.22-P-1202QB
8	Remove poly-V-belt tensioning device		AR13.25-P-3200QB
9	Remove coolant thermostat		AR20.10-P-2460QB
10	Remove oil filter housing (1)		AR18.20-P-3471QB
11	Remove power steering expansion reservoir (2)	Engine 272 Model 203 without CODE (480) Rear axle level control system MODEL 209 Model 203 with CODE (480) Rear axle level control system	AR46.25-P-1000QB
12	Remove front cover (3) at left cylinder head		AR01.30-P-5700QC
13	Disconnect purge line (4) at separation point (arrow), unclip it from brackets at the oil separator (5) and at the feed duct (6), and place it to the side.		
14	Reduce fuel pressure with pressure hose via the service valve	 Pressure hose	AR07.03-P-1460-01VA *119589046300
15	Detach fuel line (7) at fuel distributor (8)	 Catch escaping fuel with an absorbent rag!  Seal off connections immediately using stop plugs  .  Union nut of fuel line to fuel distributor  Set of stop plugs	*BA07.03-P-1001-01B *129589009100
16	Remove ignition coils for left cylinder bank		AR15.12-P-2003QB
17	Remove oil separator (5)		AR01.20-P-9750QB
18	Detach ground line (9) from cylinder head cover (10)	 Bolt for ground cable to front cover	*BA01.30-P-1001-01O
19	Remove left rear engine lifting eye (11)	 Bolt for lifting eye to cylinder head  Bolt for feed line duct on motor suspension lug	*BA01.30-P-1005-01O *BA15.18-P-1003-01B
20	Detach feed duct (6) from cylinder head cover (10)	 Bolt for feed line duct on cylinder head cover	*BA15.18-P-1002-01B
21	Detach front rubber mount (12) of air filter housing from cylinder head cover (10)	 Screw of air filter housing rubber mount to cylinder head cover	*BA01.30-P-1011-01O
22	Remove heat shield (10a)	 Bolt, heat shield to cylinder head	*BA01.30-P-1017-01O
23	Remove vacuum pump	Engines 272.920 /940 with transmission 722.9	AR43.05-P-1320QB
24	Loosen bolts for cylinder head cover (10) in reverse order of tightening procedure and remove them	Engine 272 Engine 273  Bolt connecting cylinder head cover to cylinder head	AR01.20-P-5014-03VA AR01.20-P-5014-03SX *BA01.30-P-1004-01O
25	Pry off cylinder head cover (10) from cylinder head carefully  Notes on sealant path for cylinder head cover 	 To avoid damaging sealing surfaces, do not pound in the prying tool between the cylinder head cover (10) and the cylinder head.  Installation: Apply sealant to cylinder head cover (10). Engine 272 Engine 273  Squeeze gun Loctite sealant 5970	AH01.30-P-1000-08V AH01.30-P-1000-08SX *112589002500 *BR00.45-Z-1013-01A
	Clean		
26	Clean sealing surfaces at cylinder head and at cylinder head cover (10)	 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
27	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

28	Conduct engine test run and check engine for leaks		
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Nm Injectors, injection valves, lines

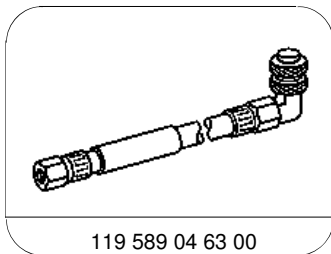
Number	Designation		Engine 272	Engine 273
BA07.03-P-1001-01B	Union nut, fuel line to fuel distributor	Nm	20	20

Nm Cylinder head

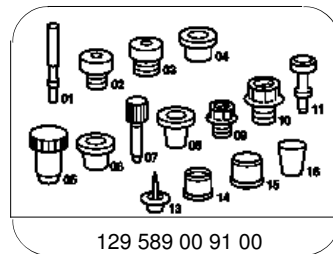
Number	Designation		Engine 272	Engine 273
BA01.30-P-1001-01O	Bolt, ground line to front cover	M6 Nm	9	9
BA01.30-P-1004-01O	Bolt, cylinder head cover to cylinder head	M7 Stage 1 Nm	12	12
		Stage 2 4°	90	90
BA01.30-P-1005-01O	Bolt, lifting eye to cylinder head	M8 Nm	20	20
BA01.30-P-1011-01O	Bolt, air filter housing rubber mount to cylinder head cover	M6 Nm	9	9
BA01.30-P-1017-01O	Bolt, heat shield to cylinder head	M6 Nm	9	9

Nm Engine wiring harness

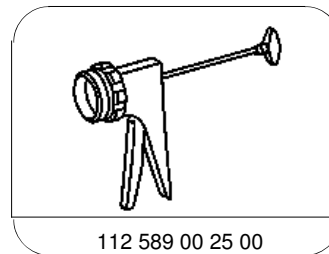
Number	Designation		Engine 272	Engine 273
BA15.18-P-1002-01B	Bolt, feed duct to cylinder head cover	Nm	8	8
BA15.18-P-1003-01B	Bolt, feed duct to engine lifting eye	Nm	8	8



Pressure hose



Set of stop plugs



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