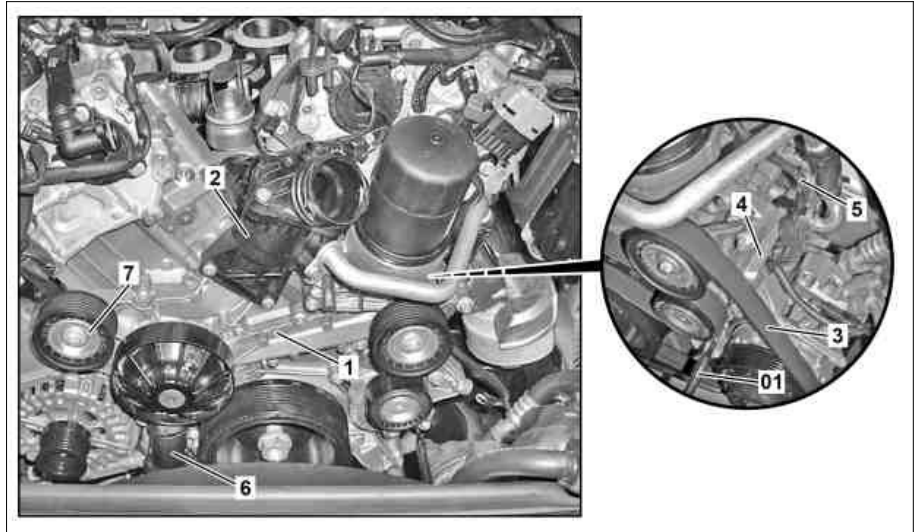


Engine 276 in model 212, 218

Shown on model 218

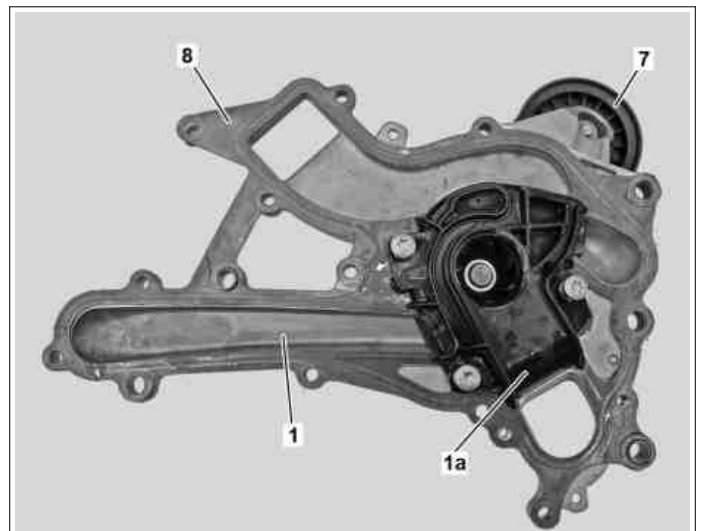
- 01 Drift
- 1 Coolant pump
- 2 Coolant thermostat
- 3 Poly-V belt
- 4 Bracket
- 5 Electrical line
- 6 Coolant inlet fitting
- 7 Guide pulley



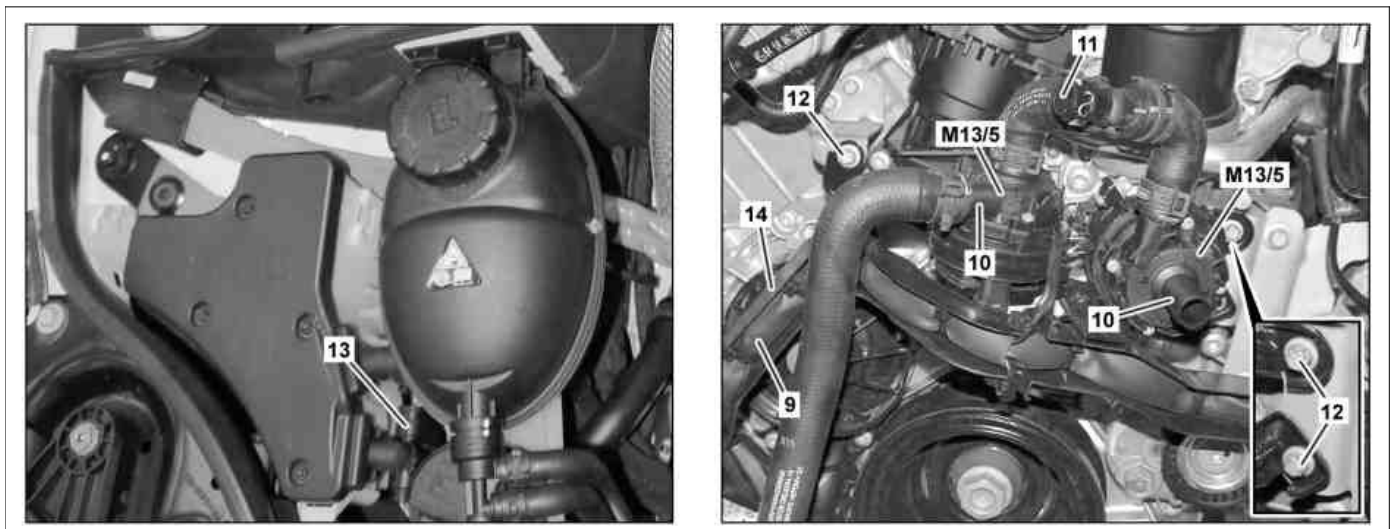
P20.10-2298-05

Shown on model 218

- 1 Coolant pump
- 1a Coolant pump cover
- 7 Guide pulley
- 8 Seal
















P20.10-2299-11



P20.10-2363-08

MODEL 212.095/195

9	Electrical wiring harness	12	Screw/bolts	M13/5	Coolant circulation pump
10	Coolant connection	13	Electrical connection		
11	Coolant connection	14	Cable duct		

	Note on high-voltage on-board electrical system			AH54.00-P-0010-01A
	Information on preventing damage to electronic components due to electrostatic discharge			AH54.00-P-0001-01A
	Remove/install			
1	Remove charge air cooler	Engine 276.8 in model 212, 218		AR09.41-P-6819ELS
2	Remove coolant thermostat (2)	Engine 276.8 in model 212, 218 Engine 276.9 in model 212, 218		AR20.10-P-2460ELS AR20.10-P-2460EL
3	Detach coolant hoses from coolant connections (10)	Engine 276 in model 212.095/195  Installation: Check coolant hoses and hose clamps for damage.		
4	Detach coolant hose at coolant connection (11)	Engine 276 in model 212.095/195  Installation: Check sealing ring for damage.		
5	Unlock electrical connection for electrical wiring harness (9) on power electronics control unit and disconnect	Engine 276 in model 212.095/195		
6	Disconnect electrical connection (13) and expose electrical wiring harness up to cable duct (14)	Engine 276 in model 212.095/195		
7	Remove screw/bolts (12) and coolant circulation pump (M13/5) with holder and cable duct (14) to one side	Engine 276 in model 212.095/195		
8	Remove poly-V belt (3)	Engine 276.8 in model 212, 218 Engine 276.9 in model 212, 218  Lock clamping device with a suitable drift (01).		AR13.20-P-0001ELS AR13.20-P-0001EL
9	Unclip electrical line (5) on bracket (4) for the guide pulley	Engine 276 in model 212 (except 212.095/195) except code 920 (Direct petrol injection with stratified charging) Engine 276 in model 218 except code 920 (Direct petrol injection with stratified charging)		
10	Remove guide pulley bracket (4)	Engine 276 in model 212 (except 212.095/195), 218  Screw/bolt, guide pulley carrier to timing case cover/cylinder crankcase		*BA13.25-P-1002-01X
11	Detach coolant inlet fitting (6) on coolant pump (1)	 Installation: Replace screw/bolts.  Bolt, coolant suction nozzle to coolant pump/timing case cover		*BA20.10-P-1003-01AA
12	Detach guide pulley (7) from coolant pump (1)	Engine 276 in model 212 (except 212.095/195), 218 When replacing the coolant pump (1)  Screw/bolt, guide pulley to coolant pump		*BA13.25-P-1004-01X
13	Remove screw/bolts for coolant pump (1)	Coolant pump tightening procedure Bolt plan for coolant pump  Installation: Replace screws/bolts; observe bolt plan and tightening procedure.  Screw/bolt, coolant pump to timing case cover/crankcase		AR20.10-P-1280-01KH AR20.10-P-1271-03MMA *BA20.10-P-1001-01AA
14	Remove coolant pump (1) from timing case cover.			
15	Detach coolant pump cover (1a) from coolant pump (1)	 Installation: Replace coolant pump cover (1a) and seal (8).  Bolt, cover to coolant pump		*BA20.10-P-1004-01AA
	Clean			
16	Clean sealing surfaces on coolant pump (1) and timing case cover	Loctite 7200 Loctite 7063 cleaning spray (150 ml)		AR01.00-P-0050-01A *BR00.45-Z-1038-04A *BR00.45-Z-1046-04A
17	Install in the reverse order			
18	Check engine cooling system for leaktightness			AR20.00-P-1010EL

19	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. Conduct engine test run and check coolant pump (1) for leaktightness	Secure vehicle to prevent it from starting off by itself. Wear buttoned-up and snug-fitting work clothes. Do not touch hot or rotating parts.	AS00.00-Z-0005-01A

Nm Belt tensioning device

Number	Designation		Engine 276
BA13.25-P-1002-01X	Screw/bolt, guide pulley carrier to timing case cover/cylinder crankcase	Nm	35

Nm Belt tensioning device

Number	Designation		Engine 276
BA13.25-P-1004-01X	Screw/bolt, guide pulley to coolant pump	Nm	35

Nm Coolant pump, coolant thermostat

Number	Designation		Engine 276	
BA20.10-P-1001-01AA	Screw/bolt, coolant pump M6 to timing case cover/crankcase	Stage 1	Nm	5
		Stage 2	Nm	10
	M8	Stage 1	Nm	10
		Stage 2	Nm	20

Nm Coolant pump, coolant thermostat

Number	Designation		Engine 276
BA20.10-P-1003-01AA	Bolt, coolant suction nozzle to coolant pump/timing case cover	Nm	8

Nm Coolant pump, coolant thermostat

Number	Designation		Engine 276		
BA20.10-P-1004-01AA	Bolt, cover to coolant pump	M6×16	Stage 1	Nm	4
			Stage 2	⊘°	120

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 cleaning spray (150 ml)	A 001 986 71 71 10