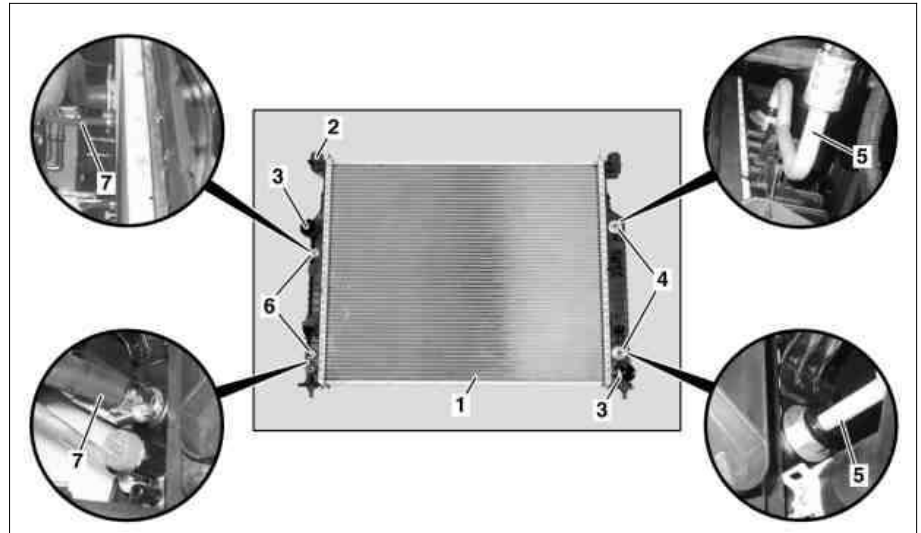


ENGINES 642.940 in MODEL 164

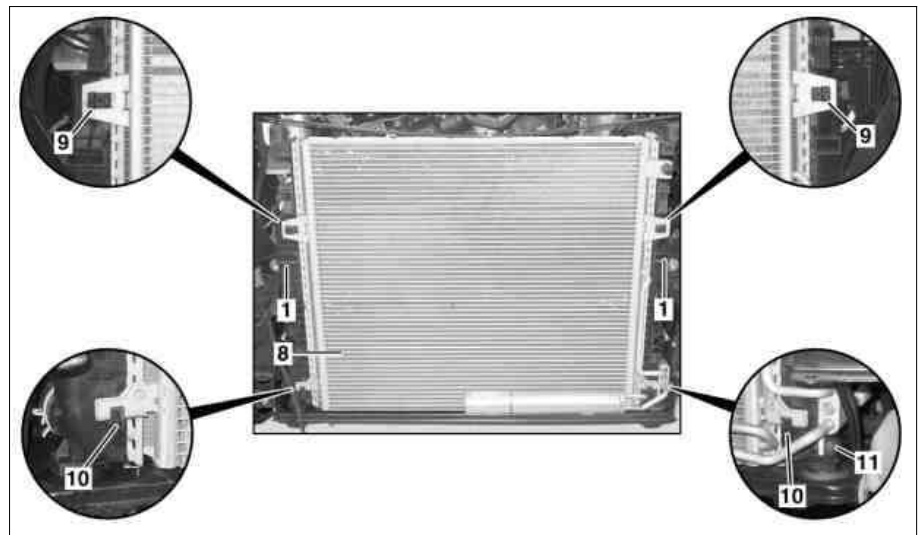
ENGINES 629 in MODEL 164

- 1 Radiator
- 2 Connection fitting
- 3 Connection fitting
- 4 Connection
- 5 Automatic transmission oil lines
- 6 Connection
- 7 Power steering oil lines



P20.20-2286-05

- 1 Radiator
- 8 Capacitor
- 9 Supports
- 10 Supports
- 11 Screw




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	Remove/install		
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 injury to skin or eyes caused by hydraulic fluid spraying out under high pressure. Risk of poisoning caused by swallowing hydraulic fluid	Depressurize the hydraulic system completely before starting any work on the system. Wear protective clothing and safety glasses.	AS00.00-Z-0013-01A
	Notes on coolant	All engines	AH20.00-N-2080-01A
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
1	Open engine hood		AR88.40-P-1000GZ
2	Remove left and right engine intake air ducts		
Danger!	Risk of death caused by vehicle slipping or toppling off of the lifting platform.	Align vehicle between the columns of the lifting platform and position the four support plates at the lifting platform support points specified by the vehicle manufacturer.	AS00.00-Z-0010-01A
3	Raise vehicle with vehicle lift		AR00.60-P-1000GZ
4	Remove bottom section of soundproofing	Installation: Only reinstall the bottom section of soundproofing only after engine test run.	AR94.30-P-5300GZ

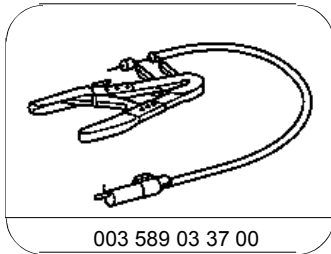
5	Drain coolant at radiator (1)	Engine 642 Engine 629	AR20.00-P-1142GZB AR20.00-P-1142GZD AH20.00-P-1142-01GZB BB00.40-P-0310-01A BB00.40-P-0325-00A *BF20.00-P-1001-02W *BF20.00-P-1001-02Y
	Notes on coolant level Coolant specifications Anticorrosion/antifreeze agents (Sheet 325.0)	Sheet 310.1 Sheet 325.0 Cooling system Cooling system	
6	Remove upper radiator crossmember		AR62.30-P-2300GZ
7	Remove charge air cooler	Engine 642 Engine 629	AR09.41-P-6817GZB AR09.41-P-6817GZD
8	Remove the automatic transmission oil lines (5) from radiator (1) and place to one side	Seal all connections immediately using stop plugs, otherwise the automatic transmission may be damaged due to contamination. Installation: Replace sealing rings. Ensure the automatic transmission oil lines (5) are fitted correctly to radiator. Set of stop plugs	*129589009100
9	Remove electric fan		AR20.40-P-5000GZB
10	Remove coolant lines from the connection fittings (2, 3) at the radiator (1)	Installation: Check condition of coolant line and replace if necessary. Replace seal. Ensure coolant line is fitted correctly on the radiator (1) Hose clamp pliers	*003589033700
11	Remove the power steering oil lines (7) from radiator (1) and place to one side		
12	Undo bolt (11) for refrigerant line mounting on radiator (1)		
13	Unclip the condenser (8) of the air conditioning from mounts (9) and pull out from mounts (10)	Place condenser (8) of air conditioning down in front of radiator (1).	
14	Pull radiator (1) up and out of the rubber mounts	Installation: <ul style="list-style-type: none"> Ensure correct seating of rubber mounts in bottom mounts (1) of radiator. Ensure the lower mounts (10) of the air-conditioning system condenser (8) are correctly seated in the radiator (1). 	
15	Install in the reverse order		
16	Check transmission oil level and correct if necessary		AR27.00-P-0270W
17	Check power steering oil level Check and correct power steering fluid level		AP46.00-P-4611GZ
18	Inspecting cooling system for leaks		AR20.00-P-1010GZB AS00.00-Z-0005-01A
	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.	
19	Conduct engine test run and check engine for leaks while it is running	In the event of oil loss, determine and eliminate cause otherwise malfunctions, transmission damage, and serious environmental pollution may occur.	

Cooling system

Number	Designation			Engine 642 in model 164, 251
BF20.00-P-1001-02W	Cooling system	Quantity when changed in workshop	≈Liters	6.5
		Antifreeze/water	Up to -37°C	50/50
			up to -45°C	55/45
	Service specifications	Sheet	BB00.40-P-0310-01A	

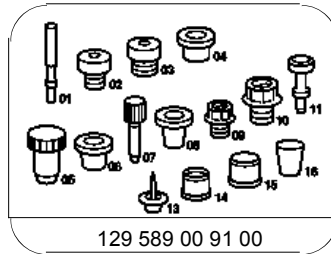
 Cooling system

Number	Designation	Engine 629 in model 164		
BF20.00-P-1001-02Y	Cooling system	Total filling capacity	≈Liters	6.5
		Antifreeze/water	Up to -37°C	50/50
			up to -45°C	55/45
		Specifications for Operating Fluids	Sheet	BB00.40-P-0310-01A
		Sheet		BB00.40-P-0325-00A



003 589 03 37 00

Hose clamp pliers



129 589 00 91 00

Set of stop plugs