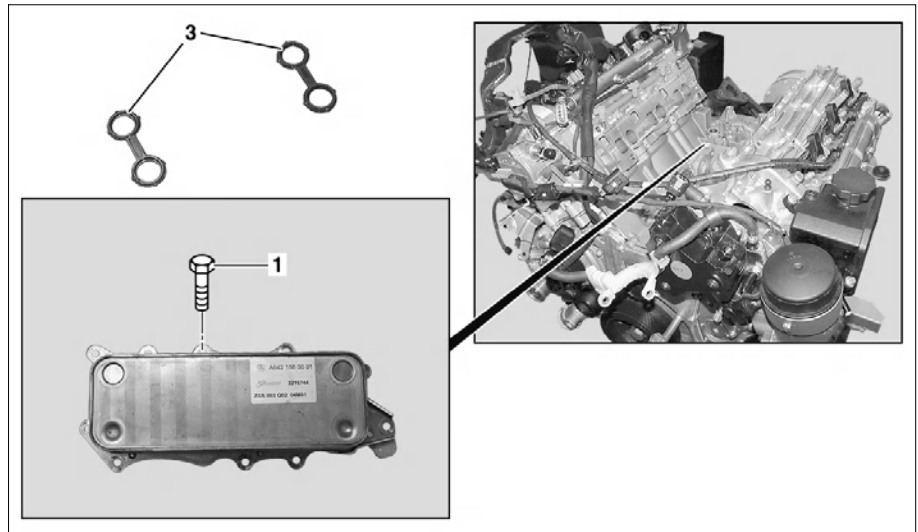


- 1 Bolt  
3 Seals



P18.30-2088-05

## Modification notes

12.2.07	Engine oil filling capacity (oil change and filter change)	Engine 642.940/950 without particulate filter	*BF18.00-P-1001-01A
12.2.07	Engine oil filling capacity (oil change and filter change)	Engine 642.940/950 with particulate filter	*BF18.00-P-1001-01S

	Remove/install		
<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, tailgates or sliding roof	Keep body parts and limbs well clear of moving parts.	AS00.00-Z-0011-01A
1.1	Removes strut tower brace	Model 164.8 only Remove strut tower brace from strut tower mounts.	AR62.30-P-2500GY
1.2	Remove partition wall between wheel wells	Model 251 only	AR62.30-P-2400RT
2	Remove engine cover	<b>Installation:</b> Check engine for leaks before reinstalling engine cover.	
3	Remove charge air manifold		AR09.41-P-1310GZB
4	Remove bolts (1) from oil-water heat exchanger		*BA18.30-P-1001-01J
5	Remove oil-water heat exchanger	<b>Installation:</b> Install new seals (3) to avoid leaks. Seals (3) and oil-water heat exchanger must be free of oil and grease.	
6	Install in the reverse order		
7	Check engine oil level	In order to avoid measurement errors, vehicle must be parked on an even surface. Shut off engine once it has reached operating temperature and wait approx. 5 minutes before checking engine oil level. Without particulate filter With code 474 Particulate filter	AR18.00-P-3035-01PI  *BF18.00-P-1001-01A *BF18.00-P-1001-01S
8	Check cooling system for leaks		AR20.00-P-1010GZB AS00.00-Z-0005-01A
<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 from working on the vehicle as it is being started or when the engine is running	Secure vehicle to prevent it from starting off by itself. Wear closed and snug-fitting work clothes. Do not touch hot or rotating parts.	
9	Check for leaks with engine running		

## Oil cooling system

Number	Designation	Engine 642

BA18.30-P-1001-01J	Bolt, oil-water heat exchanger to crankshaft housing	Nm	12
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 **Engine lubrication system**

Number	Designation	Engine 642.940/950 with particulate filter
BF18.00-P-1001-01S	Engine oil Filling capacity (oil and filter change)	Liters 8,5
	Specifications for Operating Fluids	Sheet BB00.40-P-0228-51A
		Sheet BB00.40-P-0229-31A
		Sheet BB00.40-P-0229-51A

 **Engine lubrication system**

Number	Designation	Engine 642.940/950 without particulate filter
BF18.00-P-1001-01A	Engine oil Filling capacity (oil and filter change)	Liters 8,5
	Specifications for Operating Fluids	Sheet BB00.40-P-0228-03A
		Sheet BB00.40-P-0228-05A
		Sheet BB00.40-P-0228-51A
		Sheet BB00.40-P-0229-03A
		Sheet BB00.40-P-0229-31A
		Sheet BB00.40-P-0229-05A
		Sheet BB00.40-P-0229-51A