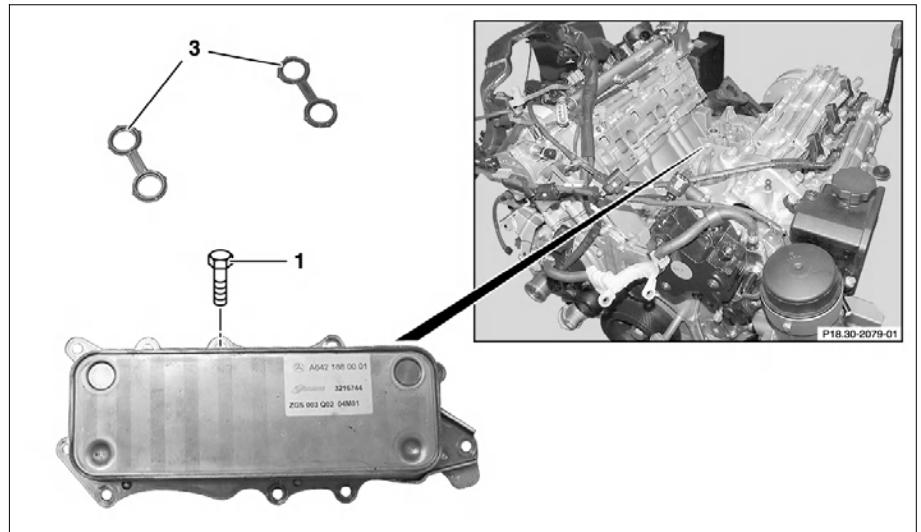


Shown on engine 642.910

- 1 Bolt  
3 Seals



P18.30-2078-05

	Remove/install		
	<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
1	Remove charge air manifold		AR09.41-P-1310SXI
2	Remove bolts (1) on oil/water heat exchanger		*BA18.30-P-1001-01J
3	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.	
4	Install in the reverse order		
5	Check engine oil level	In order to avoid measurement errors, vehicle must be parked on an even surface. Inspect engine oil level about 5 min. after switching off warm engine Without code (474) Particulate filter With code (474) Particulate filter	AR18.00-P-3035-01SXI  *BF18.00-P-1001-01A *BF18.00-P-1001-01S
6	Check for leaks with engine running		
7	Inspect cooling system for leaks	Model 207 Model 212, 218 Model 221	AR20.00-P-1010CW AR20.00-P-1010OMA AR20.00-P-1010SX

## Oil cooling system

Number	Designation	Engine 642
BA18.30-P-1001-01J	Bolt, oil-water heat exchanger to crankshaft housing	Nm 12

## Engine lubrication system

Number	Designation	Engine
		<b>642.826/830/ 832/834/836/ 838/850/852/ 853/854/856/ 858/862/868 with particulate filter</b>
BF18.00-P-1001-01S	Engine oil	Filling capacity (oil and filter change) Liters 8.0
		Specifications for Operating Fluids Sheet <b>BB00.40-P-0228-51A</b>
		Sheet <b>BB00.40-P-0229-31A</b>
		Sheet <b>BB00.40-P-0229-51A</b>

 **Engine lubrication system**

Number	Designation	Engine	Engine	Engine
		<b>642.930 with particulate filter up to engine No. 64293040458147</b>	<b>642.930 with particulate filter starting from engine No. 64293040458148</b>	<b>642.932/961 with particulate filter</b>
BF18.00-P-1001-01S	Engine oil	Filling capacity (oil and filter change) Liters 9.5	8.0	8.0
		Specifications for Operating Fluids Sheet <b>BB00.40-P-0228-51A</b>	<b>BB00.40-P-0228-51A</b>	<b>BB00.40-P-0228-51A</b>
		Sheet <b>BB00.40-P-0229-31A</b>	<b>BB00.40-P-0229-31A</b>	<b>BB00.40-P-0229-31A</b>
		Sheet <b>BB00.40-P-0229-51A</b>	<b>BB00.40-P-0229-51A</b>	<b>BB00.40-P-0229-51A</b>

 **Engine lubrication system**

Number	Designation	Engine	Engine	Engine
		<b>642.930 without particulate filter up to engine no. 64293040458147</b>	<b>642.930 without particulate filter as of engine no. 64293040458148</b>	<b>642.932/961 without particulate filter</b>
BF18.00-P-1001-01A	Engine oil	Filling capacity (oil and filter change) Liters 9.5	8.0	8.0
		Specifications for Operating Fluids Sheet <b>BB00.40-P-0228-03A</b>	<b>BB00.40-P-0228-03A</b>	<b>BB00.40-P-0228-03A</b>
		Sheet <b>BB00.40-P-0228-05A</b>	<b>BB00.40-P-0228-05A</b>	<b>BB00.40-P-0228-05A</b>
		Sheet <b>BB00.40-P-0228-51A</b>	<b>BB00.40-P-0228-51A</b>	<b>BB00.40-P-0228-51A</b>
		Sheet <b>BB00.40-P-0229-03A</b>	<b>BB00.40-P-0229-03A</b>	<b>BB00.40-P-0229-03A</b>
		Sheet <b>BB00.40-P-0229-31A</b>	<b>BB00.40-P-0229-31A</b>	<b>BB00.40-P-0229-31A</b>
		Sheet <b>BB00.40-P-0229-05A</b>	<b>BB00.40-P-0229-05A</b>	<b>BB00.40-P-0229-05A</b>
		Sheet <b>BB00.40-P-0229-51A</b>	<b>BB00.40-P-0229-51A</b>	<b>BB00.40-P-0229-51A</b>