

P18.00-2177-09

Shown on engine 642 in model 203

1 Pressure gauge
2 Pressure hose

3 Adapter fitting for oil pressure gauge
4 Screw plug

5 Sealing ring
6 Remote thermometer
7 Tester cap

	Remove/install		
⚠ 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
1	Remove engine trim panel	i Installation: Ensure correct seating of the engine cover. Model 207, 212, 218 Model 221	AR01.10-P-2405SXI
2	Unscrew oil filter cover	Nm Socket wrench bit	AP18.00-P-0101-06TI *BA18.20-P-1001-01T *642589000900
3	Screw test connection (7) with O-ring onto oil filter housing	⚙ Installation: Replace seal ring in order to avoid leaks. Tester cap	*642589009100
4	Screw adapter fitting for oil pressure manometer (3) with sealing ring (5) onto test connection (7)		
5	Connect pressure hose (2) of pressure gauge (1) at adapter fitting for oil pressure gauge (3)	Pressure gauge	*103589002101
	Checking		
6	Check oil level	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
7	Insert temperature sensor of remote thermometer (6) into oil dipstick guide tube	Remote thermometer	*124589072100

8	Run the engine and check oil pressure at the stated engine speeds and temperatures	i Bring engine up to operating temperature (approx. 90 °C). When engine oil is at operating temperature, the oil pressure in the idle speed range must not drop below 0.3 bar. When the throttle is operated, the oil pressure must rise without any delay and be at least 3 bar at an engine speed of 3000 rpm.	
9	Install in the reverse order		

Nm Engine lubrication, oil filter

Number	Designation	Engine 642
BA18.20-P-1001-01T	Threaded cap to oil filter	Nm 25

📄 Engine lubrication system

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

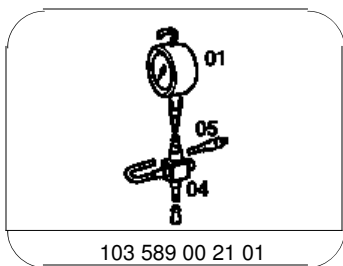
📄 Engine lubrication system

Number	Designation	Engine 642.930 with particulate filter up to engine No. 64293040458147	Engine 642.930 with particulate filter starting from engine No. 64293040458148	Engine 642.932/961 with particulate filter
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 BB00.40-P-0228-51 A	BB00.40-P-0228-51 A	BB00.40-P-0228-51 A

	Sheet	BB00.40-P-0229-31 A	BB00.40-P-0229-31 A	BB00.40-P-0229-31 A
	Sheet	BB00.40-P-0229-51 A	BB00.40-P-0229-51 A	BB00.40-P-0229-51 A

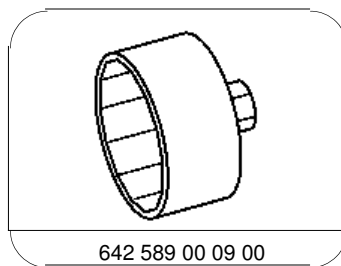
 Engine lubrication system

Number	Designation	Engine 642.930 without particulate filter up to engine no. 64293040458147	Engine 642.930 without particulate filter as of engine no. 64293040458148	Engine 642.932/961 without particulate filter	
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	BB00.40-P-0228-03 A	BB00.40-P-0228-03 A	BB00.40-P-0228-03 A
		Sheet	BB00.40-P-0228-05 A	BB00.40-P-0228-05 A	BB00.40-P-0228-05 A
		Sheet	BB00.40-P-0228-51 A	BB00.40-P-0228-51 A	BB00.40-P-0228-51 A
		Sheet	BB00.40-P-0229-03 A	BB00.40-P-0229-03 A	BB00.40-P-0229-03 A
		Sheet	BB00.40-P-0229-31 A	BB00.40-P-0229-31 A	BB00.40-P-0229-31 A
		Sheet	BB00.40-P-0229-05 A	BB00.40-P-0229-05 A	BB00.40-P-0229-05 A
		Sheet	BB00.40-P-0229-51 A	BB00.40-P-0229-51 A	BB00.40-P-0229-51 A



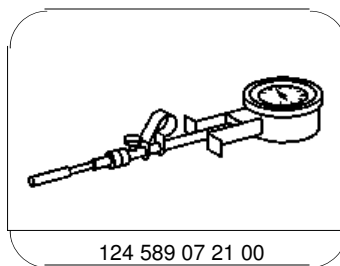
103 589 00 21 01

Pressure gage



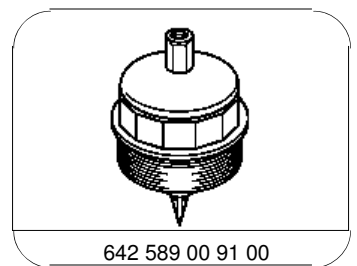
642 589 00 09 00

Wrench socket



124 589 07 21 00

Remote thermometer



642 589 00 91 00

Tester cap