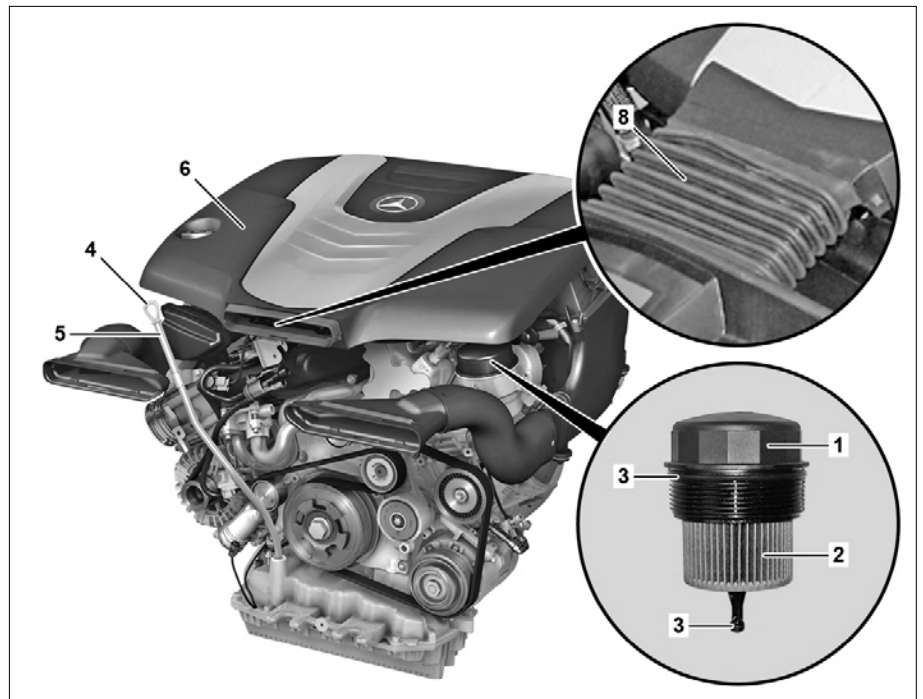


Engine 642 (except 642.855) in model 213
 Engine 642 in model 166, 204, 207, 212, 218, 238, 253, 292
 Engine 642.8/932, 642.930 ## as of 458148 in model 221
 Engine 642.861/867 in model 222







Shown on engine 642.8

- 1 Oil filter screw-on cover
- 2 Oil filter element
- 3 Sealing ring
- 4 Oil dipstick
- 5 Oil-dipstick guide tube
- 6 Engine cover
- 8 Cold air duct



P18.00-2345-06

Danger!	Risk of injury to skin and eyes due to handling of engine oil. Risk of poisoning caused by swallowing engine oil	Wear protective gloves, protective clothing and safety glasses. Do not fill engine oil into beverage containers.	AS18.00-Z-0001-01A
Danger!	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.	Secure vehicle to prevent it from starting off by itself. Wear closed and snug-fitting work clothes. Do not touch hot or rotating parts.	AS00.00-Z-0005-01A
i	Notes on engine oil and filter changes		AH18.00-P-0104-01A
	Remove		
1	Allow engine to warm up	i Coolant temperature at least 80 °C.	
2	Pull oil dipstick (4) out of oil-dipstick guide tube (5) and wipe off using lint-free cloth	i The oil dipstick (4) and oil-dipstick guide tube (5) can be located at the front or rear of the engine, depending on the model series involved.	
3	Extract engine oil through oil-dipstick (5) guide tube		
WS	000 588 05 82 00 Oil extraction sensor		WS18.00-P-0027B
4	Unclip cold air duct (8)	If installed	
5	Remove engine cover (6)		
6	Remove oil filter threaded cap (1)	i Unscrew the oil filter threaded cap (1) (depending on the version) using a socket wrench bit. Socket wrench bit	*642589000900
7	Remove oil filter threaded cap (1)		
8	Replace oil filter element (2)		
9	Replace sealing rings (3)		
	Install		
10	Install oil filter threaded cap (1)	i Unscrew the oil filter threaded cap (1) (depending on the version) using socket. Nm Oil filter cover to oil filter housing Socket wrench bit	*BA18.20-P-1001-01T *642589000900
11	Remove engine oil extractor		

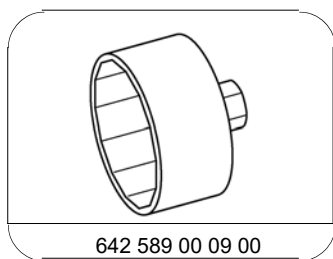
12	Insert clean oil dipstick (4) into oil-dipstick guide tube (5)		
13	Add engine oil	 Use only approved engine oils. Engine damage can occur otherwise.  Engine oil	*BF18.00-P-1001-01S
	Check		
14	Run engine until it is at operating temperature, and check for leaktightness	 Coolant temperature at least 80 °C. In the event of leakage: ↓ Determine and rectify cause, subject to separate repair order.	
15	Switch off engine		
16	Check engine oil level using oil dipstick (4); correct if necessary	 Insert oil dipstick (4) into the oil-dipstick guide tube (5) until the end stop and hold in for a duration of at least 3 seconds.	AP18.00-P-1811MP
	Install		
17	Install engine cover (6)		
18	Clip in cold air duct (8)	If installed	

 Engine lubrication, oil filter

Number	Designation	Engine 642
BA18.20-P-1001-01T	Oil filter cover to oil filter housing	Nm 25

 Engine lubrication system

Number	Designation	Engine
		642.824/826/830/832/834/835/836/838/850/852/853/854/856/858/861/862/867/868/873/932/960/961/970 Engine 642.930 ## as of 458148
BF18.00-P-1001-01S	Engine oil	Filling capacity (oil and filter change) 8,0
		Sheet BB00.40-P-0223-02 A
		Sheet -
		Sheet -
		Sheet -



642 589 00 09 00

Socket wrench bit