


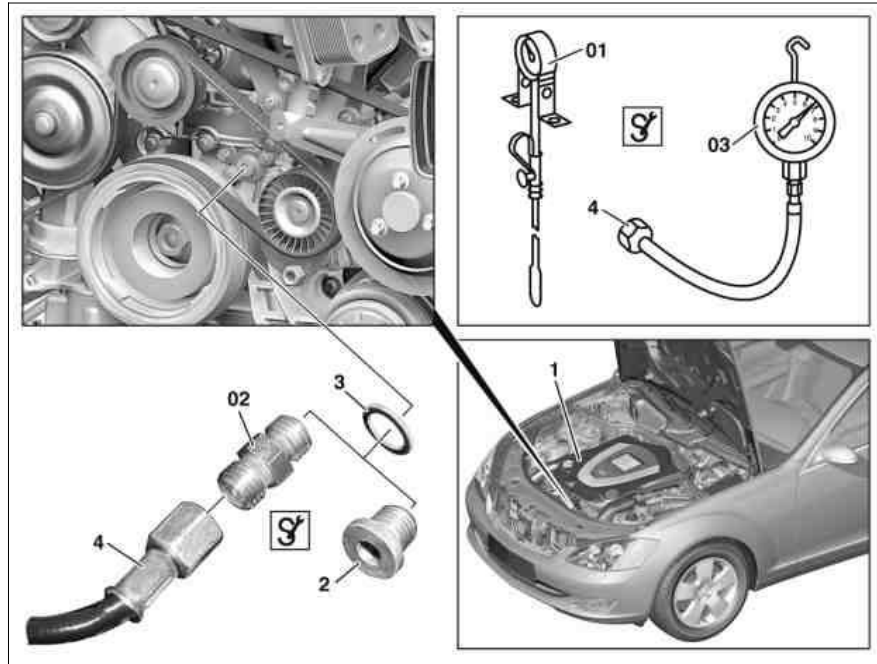


ENGINE 272, 273/




















- 01  Remote thermometer
 02  Double union
 03  Testing unit
 1 Front engine cover
 2 Screw plug
 3 Sealing ring
 4 Hose connection








P18.00-2189-06

Modification notes

4.10.10	Value modified: Oil pressure at operating temperature	Engine 272 except 272.973/974 Engine 273	*BE18.00-P-1001-01B
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	Checking		
	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	Run engine until warm		
2	Check engine oil temperature with remote thermometer  (01)	 Lead temperature sensor of remote thermometer  (01) through oil dipstick guide tube into engine oil.  The engine oil temperature must be at least 100 °C. 	*124589072100
3	Check engine oil level about 5 minutes after switching off the warm engine, if necessary adjust to correct level	 The vehicle must be parked on a level surface, otherwise false measurements can occur.	
 	Remove/install		
4	Remove front engine cover (1)	 Pull upwards out of the mounts.	
5	Remove screw plug (2) from timing case cover	 Installation: Replace sealing ring (3).  Engine 272  Engine 273	*BA01.40-P-1010-01G *BA01.40-P-1005-01T
6	 Screw double connectors (02) with sealing ring (3) into the hole in the timing case cover		*166589006300
7	Connect hose connection (4)  of testing unit (03)  to double union (02)		*103589002100
	Measure		

8	Start the engine and measure oil pressure	<p>  Position testing unit (03) so that it is not caught in the poly-V-belt when the engine is started, otherwise the  testing unit (03) and the poly-V-belt may be damaged.</p> <p> Measure the oil pressure at the engine operating pressure.</p> <p> When throttle is opened, the oil pressure must rise without any delay.</p>	*BE18.00-P-1001-01B
9	Install in the reverse order		
10	Carry out an engine test run and check engine for leaks		

Oil pressure test specifications

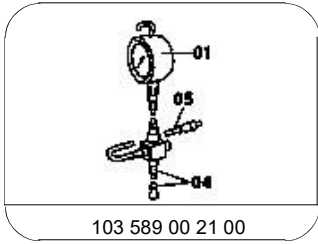
Number	Designation	Engine 272 except 272.973/974	Engine 272.973/974	Engine 273
BE18.00-P-1001-01B	Oil pressure at operating temperature	– bar	≥ 0.7	≥ 0.7
		at rpm	700	700
		– bar	≥ 4.0	1.6 to 2.4
		at rpm	3000	2000
		– bar	-	3.5 to 4.7
		at rpm	-	3500

Crankcase, timing case cover, end cover

Number	Designation	Engine 273
BA01.40-P-1005-01T	Screw plug on timing case cover	M12 × 1.5 Nm 20
		M6 × 23 Nm 14

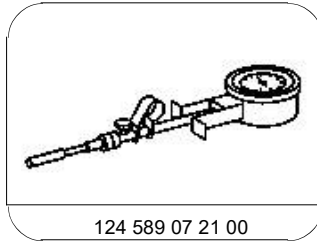
Crankcase, timing case cover, end cover

Number	Designation	Engine 272
BA01.40-P-1010-01G	Screw plug on timing case cover	Nm 20



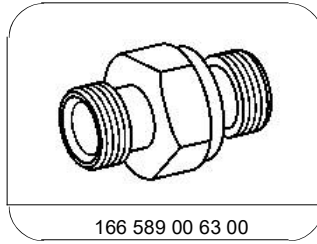
103 589 00 21 00

Tester



124 589 07 21 00

Remote thermometer



166 589 00 63 00

Double union