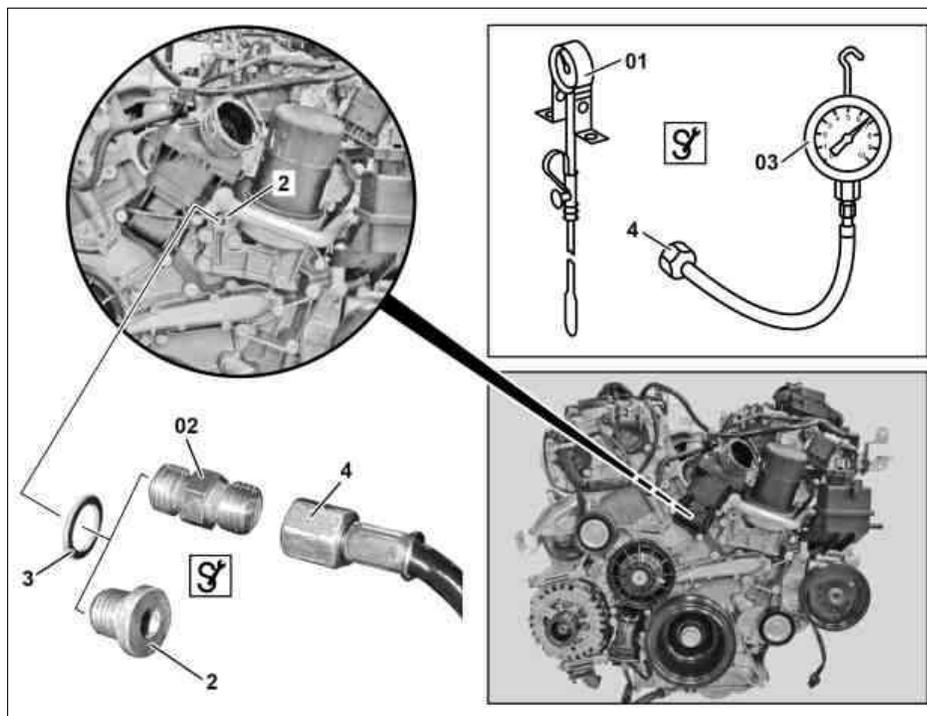


Engine 157, 276, 278 in model 231

Shown on engine 276

- 01 Remote thermometer
- 02 Double union
- 03 Test equipment
- 2 Screw plug
- 3 Sealing ring
- 4 Hose connection



P18.00-2309-06

	Check		
⚠ 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
1	Run engine until warm		
2	Check engine oil temperature with remote thermometer (01)	<p>i Guide temperature sensor of remote thermometer (01) through the oil dipstick guide tube into engine oil. The engine oil temperature must be at least 100°C.</p> <p> Remote thermometer</p>	*124589072100
3 AP AP AP	Check engine oil level; correct if necessary	<p>Engine 157 in model 231 Engine 276 in model 231 Engine 278 in model 231</p> <p> Vehicle must be horizontal and standing on its wheels. Wrong measurements can occur otherwise.</p> <p>i Check engine oil level approx. 5 minutes after switching off warm engine.</p>	<p>AP18.00-P-0101EWG AP18.00-P-0101CWZ AP18.00-P-0101EW</p>
	Remove/install		
4	Remove front engine cover		
5.1	Remove screw plug (2) from timing case cover	<p>Engine 276 in model 231</p> <p>i Installation: Replace sealing ring (3).</p> <p>Nm Engine 276 in model 231 Screw plug to oil duct cover</p>	*BA18.20-P-1004-01Y
5.2	Remove screw plug (2) at oil filter housing	<p>Engine 157, 278 in model 231</p> <p>i Installation: Replace sealing ring (3).</p> <p>Nm Engine 157 in model 231 Screw plug to oil filter housing</p>	*BA18.20-P-1002-01Z

		Engine 278 in model 231 Screw plug to oil filter housing	*BA18.20-P-1005-01Y
6.1	Screw in double union (02) with sealing ring (3) into the hole in the timing case cover	Engine 276 in model 231 Engine 276 in model 231 Screw plug to oil duct cover	*BA18.20-P-1004-01Y
6.2	Screw in double union (02) with sealing ring (3) into the hole in the oil filter housing	Engine 157, 278 in model 231 Engine 157 in model 231 Screw plug to oil filter housing Engine 278 in model 231 Screw plug to oil filter housing	*BA18.20-P-1002-01Z *BA18.20-P-1005-01Y
7	Attach hose connection (4) for test equipment (03) to double union (02)	Position test equipment (03) in such a way that it is not caught by the poly-V belt when starting the engine. Damage can occur on the test equipment (03) or poly-V belt otherwise. Tester	*103589002100
	Measure		
8	Start engine and measure oil pressure	Measure oil pressure at the engine operating temperature. When the throttle is opened, the oil pressure must rise without any delay. Check values for oil pressure at	*BE18.00-P-1001-01B
9	Install in the reverse order		
10	Check engine oil level; correct if necessary	Engine 157 in model 231 Engine 276 in model 231 Engine 278 in model 231 Vehicle must be horizontal and standing on its wheels. Wrong measurements can occur otherwise. Check engine oil level approx. 5 minutes after switching off warm engine.	AP18.00-P-0101EWG AP18.00-P-0101CWZ AP18.00-P-0101EW
11	Carry out an engine test run and check engine for leaktightness	Visual inspection only.	

Check values for oil pressure

Number	Designation	Engine 157, 278	Engine 276
BE18.00-P-1001-01B	Check values for oil pressure at	operating temperature ° C	90
		Rpm	600
		Oil pressure bar	0,9...1,1
		Rpm	2500
		Oil pressure bar	1,7...2,3
		Rpm	3500
	Oil pressure bar	3,5...5,0	3,5...5,0

Oil filter

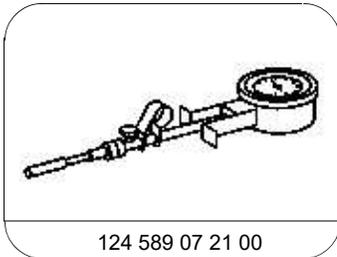
Number	Designation	Engine 157
BA18.20-P-1002-01Z	Screw plug to oil filter housing	M12 Nm 20

Oil filter

Number	Designation	Engine 276
BA18.20-P-1004-01Y	Screw plug to oil duct cover	M12 Nm 20

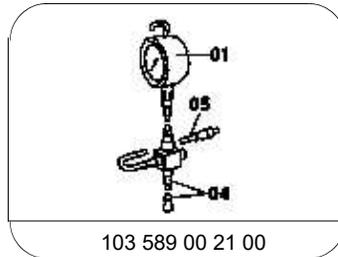
Nm Oil filter

Number	Designation			Engine 278
BA18.20-P-1005-01Y	Screw plug to oil filter housing	M12	Nm	20



124 589 07 21 00

Remote thermometer



103 589 00 21 00

Tester