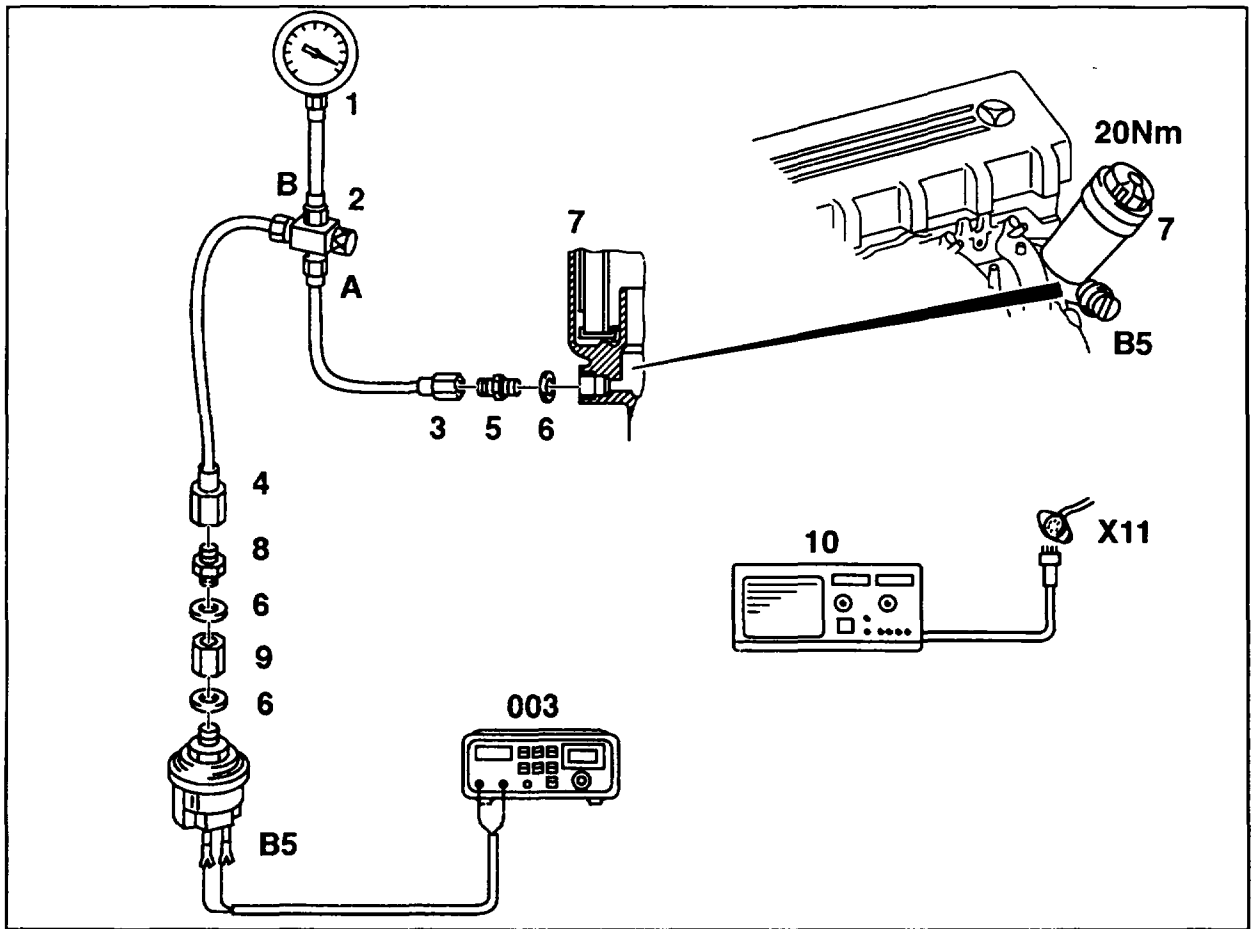


# 18-0075 Testing oil pressure sensor



P18-5325-57

Shown on model 129 with 2-pin oil pressure sensor

1	0 - 10 bar pressure gauge 103 589 00 21 01	7	Oil filter
2	T valve	8	M10 × 1 - M12 × 1.5 adapter fitting
3	Pressure pipe A	9	M12 × 1.5 threaded union (shop-made)
4	Pressure pipe B	10	Rpm meter
5	M12 × 1.5 pipe fitting	X11	Diagnostic socket
6	Seal	003	Resistance tester (multimeter)
B5	Oil pressure sensor		

Oil level in engine .....	check, adjust to correct level (18-0020)
Oil pressure sensor (B5) .....	remove, install. Replace seal (15 Nm)
Threaded insert (5) with seal (6) .....	screw on in place of oil pressure sensor (B5)
Pressure gauge (1) with pressure pipe (3) .....	connect

T valve (2) at pressure gauge (1) . . . . .	close (turn to closed position)
Oil pressure pressure sensor (B5) to pressure gauge (1) . . . . .	connect. Use threaded union (9) (see shop-made tool)
T valve (2) at pressure gauge (1) . . . . .	open (turn to opened position)
Oil pressure sensor (B5) to multimeter (003) . . . .	connect
Electrical resistance at stated engine speed . . . .	check

**Note**

Perform measurement with dropping pressure and by knocking unit.  
If the resistance of the oil pressure sensor (B5) is not within the stated values, the sensor should be replaced.

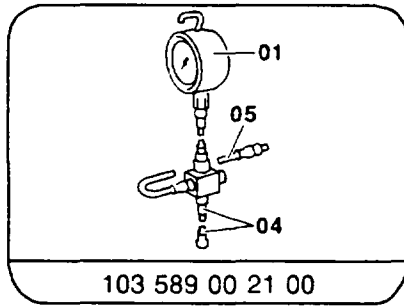
**Test data of 1-pin oil pressure sensor, models 107, 124, 126, 201**

Engine oil pressure in bar	Oil pressure sensor resistance in ohms
0	5-13
0.5	34-45
1.0	63-76
1.5	93-106
2.0	121-138
2.5	148-167
3.0	174-195

**Test data of 2-pin oil pressure sensor, model 129**

Engine oil pressure in bar	Oil pressure sensor resistance in ohms
0	3-13
0.3	17-34
1.8	102-125
3.0	163-195
3.6	187-236

**Special tool**

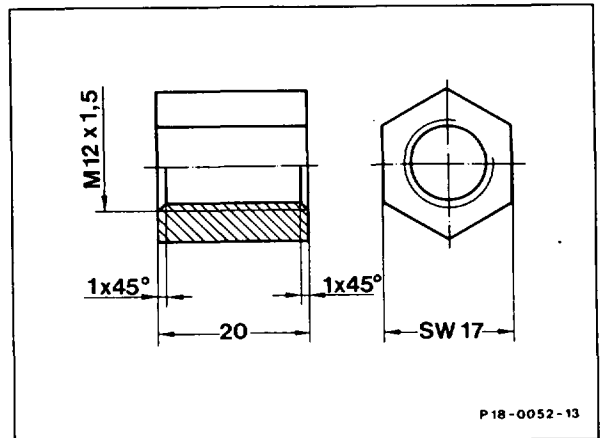


**Commercially available tools**

M12 x 1.5 pipe union (5)	915 006 004 002 (DIN)
M10 x 1 – M12 x 1.5 adapter fitting (8)	915 007 004 001 (DIN)
Resistance measuring instrument (003)	eg. DMM-5 Sun multimeter
Rpm meter (10)	eg. engine tester or multimeter

**Shop-made tool**

M12 x 1.5 threaded union (9) for oil pressure sensor (B5) to pressure gauge (1)



**Note**

**Modification to housing of electric oil pressure sensor at oil filter on models 107, 124, 126**

The housing of the oil pressure sensor has been modified in order to assure adequate clearance to speedometer shaft.

Production breakpoint 07/1985

- A 1st version
- B 2nd version

