

11 40 000

Checking engine oil pressure (N55)**Special tools required:**

- [11 6 410](#)
- [11 9 240](#)
- [11 9 250](#)
- [13 6 051](#)
- 2 212 823
- 11 4 310

**Important!**

The regulated oil pump can only be checked and measured with the diagnosis system.

Vehicles with a regulated oil pump have a [hydraulic valve](#) fitted.

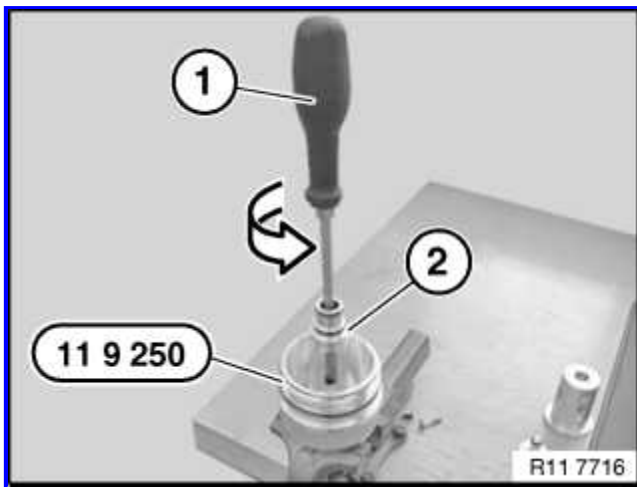
Diagnosis path:

- DME Digital Motor Electronics
- Complete vehicle
- Power train
- Engine electronics
- Engine oil
- Oil-pressure control

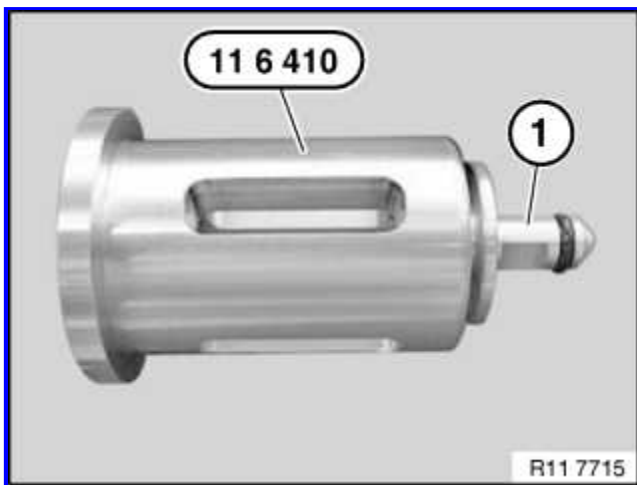
Special tool [11 9 250](#) must be converted for N55

Necessary preliminary tasks:

- Connect BMW diagnosis system to vehicle.
- Observe diagnosis instructions.
- Protect drive belt against dirt
- Have a cleaning cloth ready to catch escaping oil

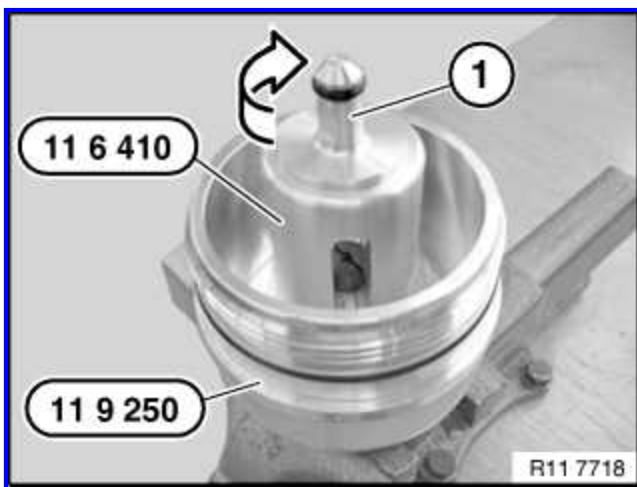
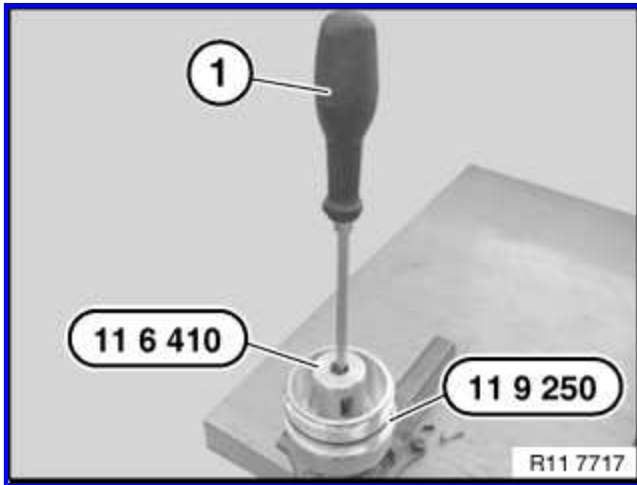


Secure special tool [11 9 250](#) at hexagon head in a vice.
Release insert (2) using a slotted screwdriver (1) in direction of arrow.

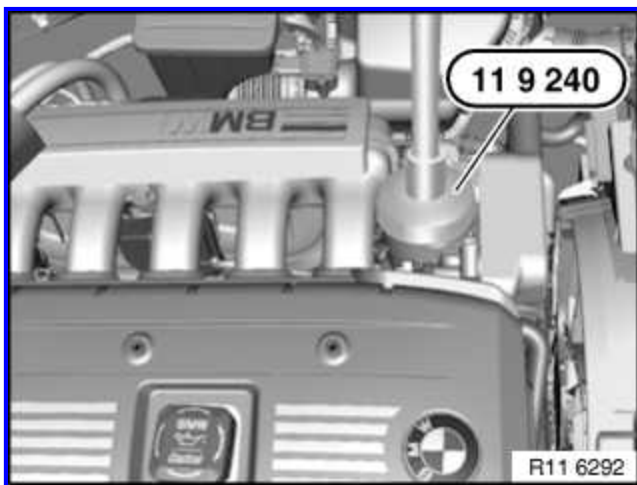


Release screw piece (1) on special tool [11 6 410](#).

Install special tool [11 6 410](#) in special tool [11 9 250](#).
Insert central bolt with a slotted screwdriver (1) hand-tight.



Insert screw piece (1) hand-tight in direction of arrow on special tool [11 6 410](#).

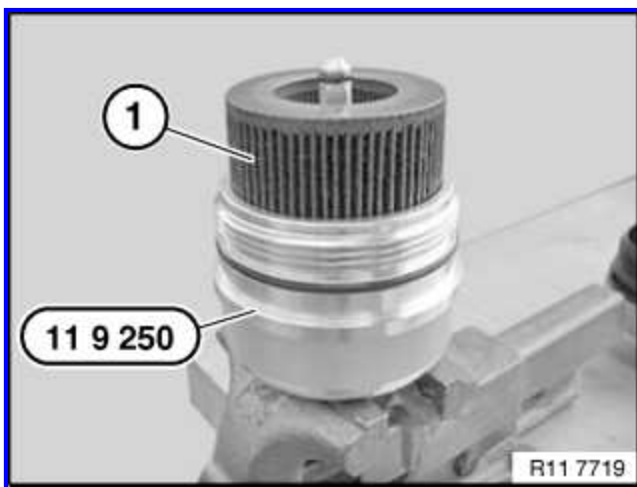
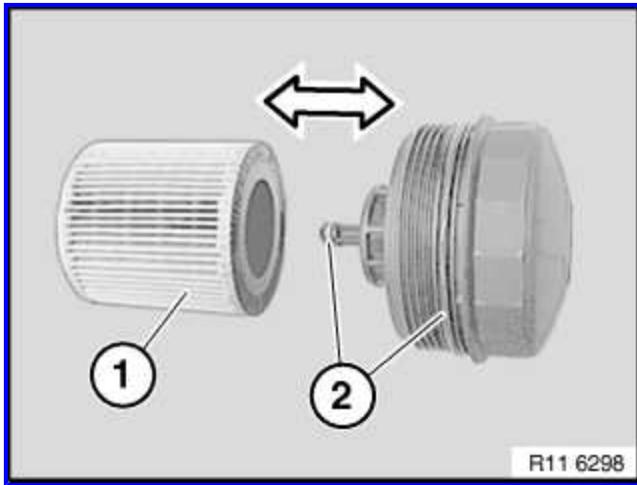


Release oil filter cover with special tool [11 9 240](#).
Tightening torque: [11 42 1 AZ](#).

Carefully detach filter element.

Installation note:

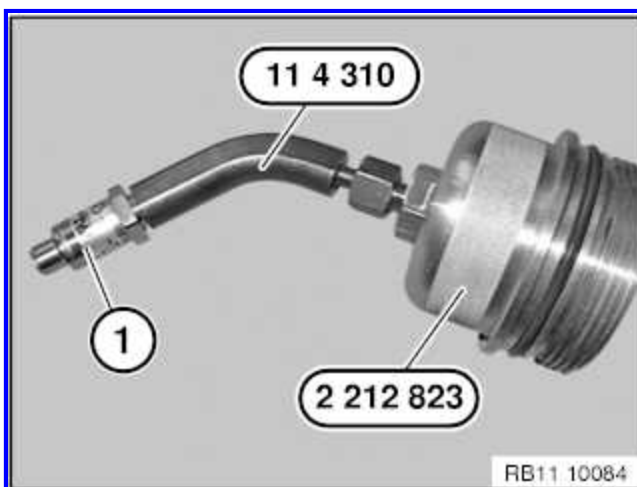
Check all O-rings for damage, replace if necessary.



Install filter element (1) in special tool [11 9 250](#).

Installation note:

Coat O-ring with engine oil.



Order number for special tool: Bolt 2 212 823 with 11 4 310 .

Screw the pressure sensor (1) hand tight.

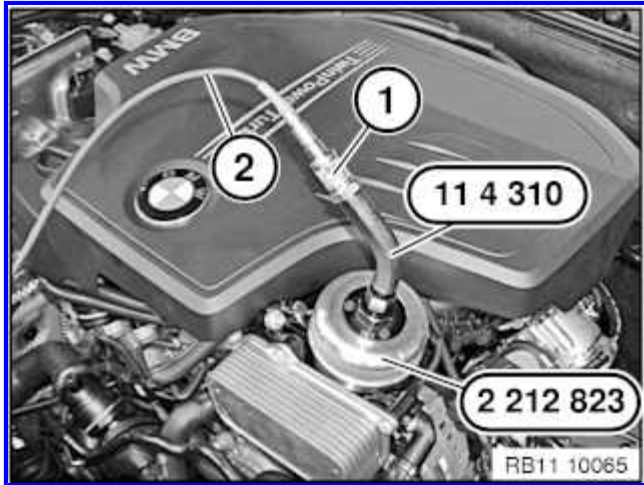
Apply light coating of oil to sealing ring at pressure sensor (1)
100 bar.

Measure the engine oil pressure with diagnosis system.

Order number for special tool: Screw 2 212 823 to oil filter housing.

Special tool 11 4 310 on special tool, order number: 2 212 823.

Screw in pressure sensor (1) 100 bar at special tool 11 4 310 (finger-tight).



Connect cable (2) of IMIB (Integrated Measurement Interface Box) to pressure sensor (1) 100 bar.

Graphic N20.



Start engine and check engine oil pressure by means of diagnosis.