

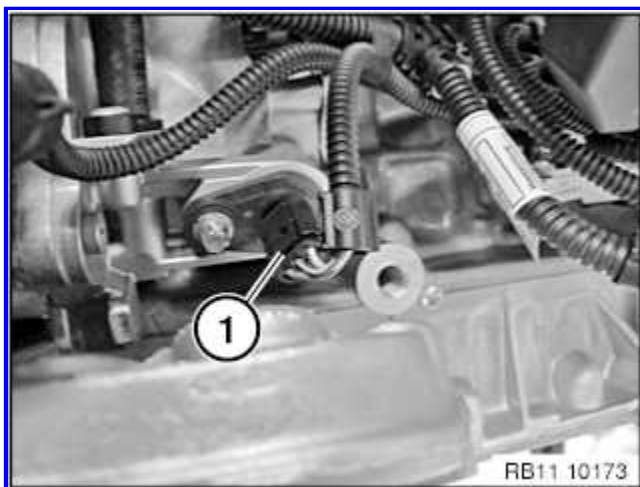
11 66 000**Removing and installing/replacing
vacuum pump (N55)****Special tools required:**

- [11 0 290](#)
- [11 4 120](#)
- [11 8 650](#)

**Necessary preliminary tasks:**

- Remove [drive belt](#).
- Remove [tensioner](#) for drive belt.
- Remove [sealing cover](#) for vacuum pump.
- Remove [sealing cap](#) of chain tensioner for oil pump.
- Remove [high pressure pump](#).
- Disconnect vacuum line from vacuum pump.

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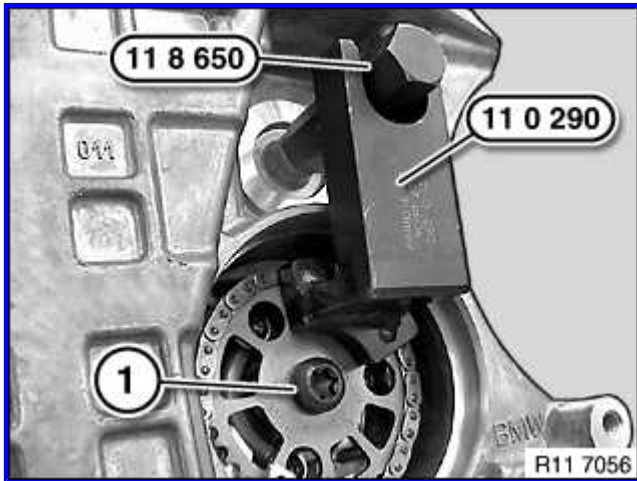


Unlock connector (1) on vacuum pump and disconnect.

Rotate crankshaft at central bolt.

Turn sprocket wheel until drilled holes and screws of vacuum pump match up.

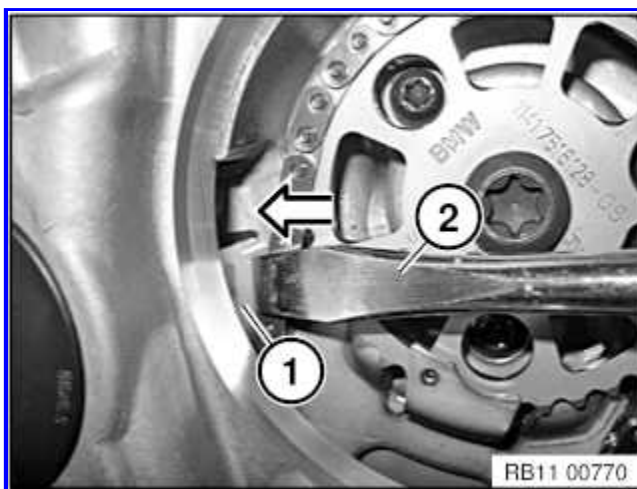
Screw in special tool [11 8 650](#).



Secure special tool [11 0 290](#) in sprocket and to special tool [11 8 650](#).

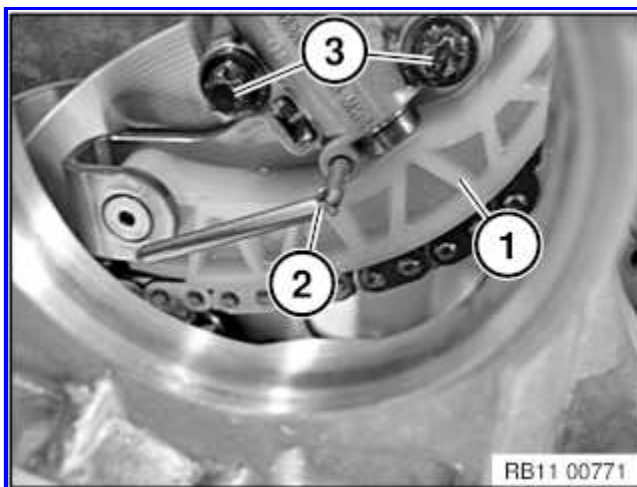
Release screw (1).

Tightening torque [11 66 2AZ](#).



Carefully press tensioning rail (1) with a suitable screwdriver (2) in direction of arrow.

As the oil pressure in the chain tensioner can only be drained pulsating, the tensioning rail (1) must be pressed several times.



Press the tensioning rail (1) and hold down.

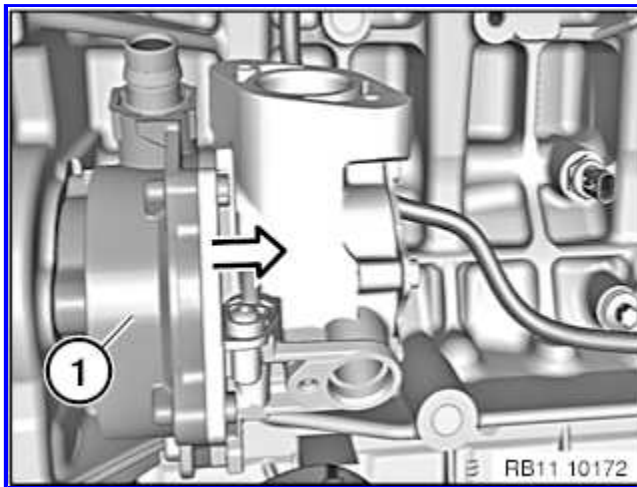
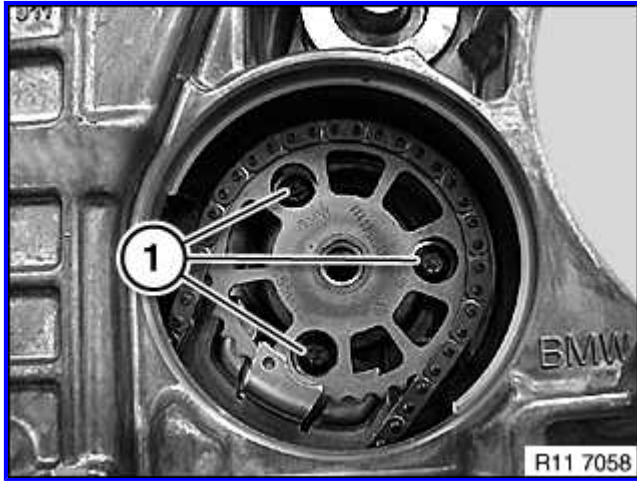
Fix chain tensioner piston in position with a suitable lock pin (2).

Release screws (1).

Tightening torque [11 66 1AZ](#).

Release screws (1).

Secure screws (1) against falling out.



Remove vacuum pump (1) in direction of arrow.

Installation note:

Replace seal.



Assemble engine.