BMW F10 535i Sedan / Repair Manuals and Technical Data / 11 Engine / 11 41 Oil pump with strainer and motor /

11 13 000 Removing and installing, sealing or replacing oil sump (N55)



Important!

Aluminium screws/bolts are permitted with and without colour coding (blue).

Aluminium screws/bolts must be replaced each time they are **released**.

For reliable identification:

Aluminium screws/bolts are not magnetic.

Jointing torque and angle of rotation must be observed without fail (risk of damage).



Necessary preliminary tasks:

- <u>Remove left charge air duct</u>.
- Drain and add engine oil.
- Remove front axle differential.
- Remove <u>bearing support</u>.
- Detach <u>power steering pump</u> and set it aside (Dynamic Drive only).
- Remove <u>engine support arm</u>.
- Detach deflecting element and holder from oil sump.

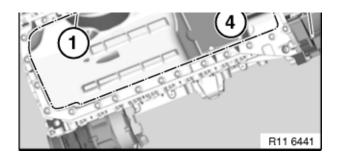


Note:

The lines must be detached from the oil sump on vehicles with automatic transmission; if necessary, detach oil pump and place to one side.



Release bolts (3) on transmission. Tightening torque <u>11 13 6AZ</u>. Detach return hose (2). **Important!**



For vehicles with four-wheel drive or automatic transmission, bolts of different lengths are installed for mounting the oil sump.

Observe different tightening torques.

Release bolts along line (1).

For vehicles with four-wheel drive or automatic transmission:

Tightening torque 11 13 2 and 3AZ.

Additionally for vehicles with four-wheel drive:

Tightening torque <u>11 13 4AZ</u>.

Installation note: **Replace aluminium screws.**

If necessary, release nuts (4). Remove oil level sensor.

Tightening torque <u>11 13 7AZ</u>.

Installation note: Replace sealing ring.

Important!

There must be no adhesive residues in the lower crankcase section retaining threads.

Clean retaining threads and sealing surfaces.

Installation note: Replace all gaskets.



Assemble engine.

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