

2019 BMW X1 sDrive 28i FWD (F48) L4-2.0L Turbo (B460)

Vehicle > Engine, Cooling and Exhaust > Engine > Engine Lubrication > Oil Filter > Service and Repair > Removal and Replacement

REMOVING AND INSTALLING/REPLACING FULL-FLOW OIL FILTER (B42, B48) [REP-REP-RAF4811B48-1142020 - V.6]

Removing and installing/replacing full-flow oil filter (B42, B48)

REP-REP-RAF4811B48-1142020 - V.6

11 42 020 Removing and installing/replacing full-flow oil filter (B42, B48)

Special tools required:

- 11 4 470
- 11 6 480



Risk of scalding!

Only perform this repair work after the engine has cooled down.



Recycling:

Catch and dispose of drained coolant.

Observe country-specific waste disposal regulations.



Necessary preliminary work:

- Clamp off battery earth lead.
- Remove underbody protection
- Drain coolant.
- Remove auxiliary coolant pump.



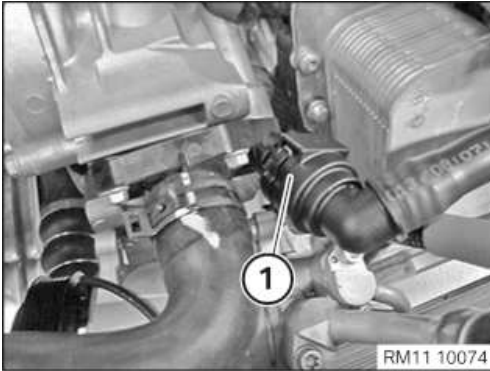
Removal:



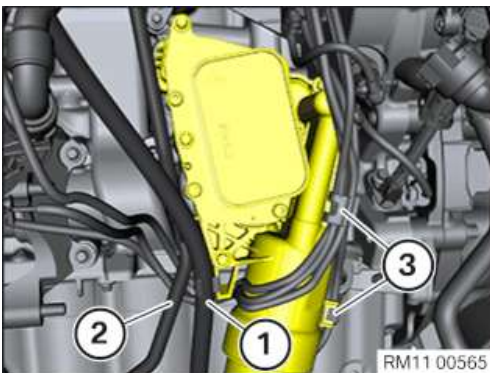
Unlock and detach coolant hose (1).

Note:

Shown with intake plenum removed for purposes of clarity.



Unlock and detach coolant hose (1).



Unclip positive wire (1) from full-flow oil filter.

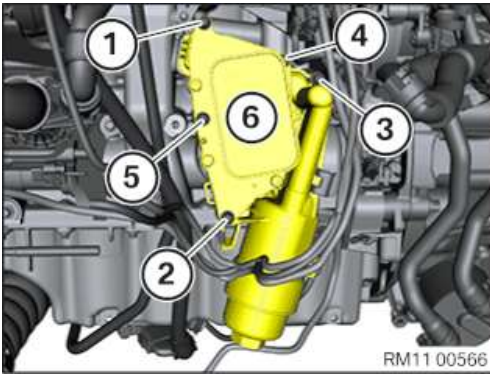
Unclip tank ventilation line (2) from full-flow oil filter.

Unclip engine wiring harness (3) from full-flow oil filter.



Undo oil drain plug (1) at hexagon head (2).

Drain the engine oil.



Release screws in the sequence 5-1.

Remove full-flow oil filter (6).



Installation:



Caution!

Remove gasket residues from crankcase and full-flow oil filter with special tool 11 4 470.

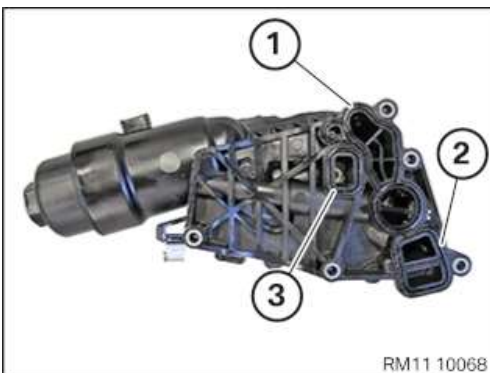
Do not use any metal-cutting tools (e.g. emery cloth).

Make sure that there are no particles or impurities in the medium openings.

Coolant or foreign particles in the oil can cause engine damage e.g. damages in the connecting rod bearing.



Crank the engine with special tool 11 6 480 until engine oil runs from the oil ducts in the full-flow oil filter area.



Note:

All sealing surfaces and gaskets must be cleaned and free of oil.

Replace gaskets (1 - 3).

Replacement:

Remount oil-to-water heat exchanger.

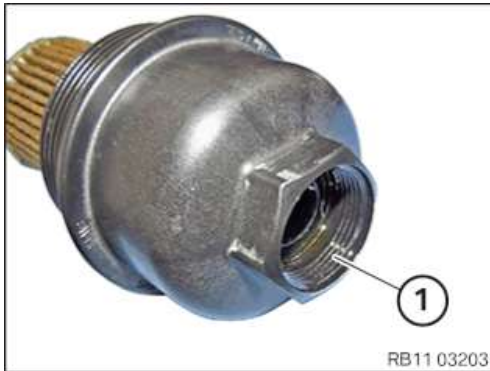
Check that gaskets (1 - 3) are correctly seated.



Replace screw with O-ring (1)

Parts: Screw with O-ring (1).

Wet the O-ring (1) with engine oil.



The thread (1) must be cleaned before installation without fail with original BMW brake cleaner (part number: 83 19 2 365 214).

The thread must be completely free of engine oil!

Caution!

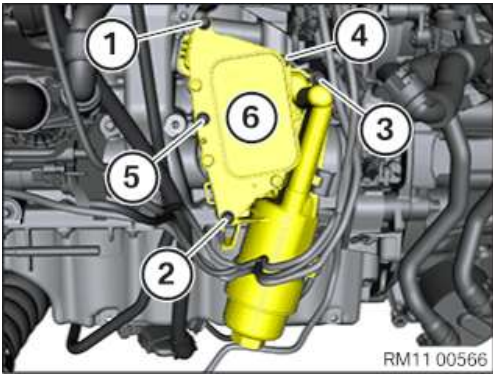
Risk of damage!

Elastomers (O-rings) may not touch brake cleaner!

Let the brake cleaner dry completely, if necessary blow dry with compressed air.



Oil drain plug (1).



Position full-flow oil filter (6).

Tighten screws in the sequence **1-5**.

Tightening torque:

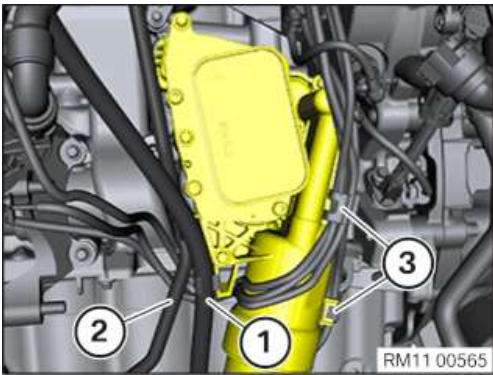
11 42 3AZ	Type	Thread	Tightening specifications	Dimension
3 Oil filter A module to Z crankcase	B42S2000 / B46M0/O0 / B48M0/O0	M6	Observe tightening sequence!	
			1. Joining torque	8 Nm
			2. Tighten to	8 Nm.



Tighten oil drain plug (1) at hexagon head (2).

Tightening torque:

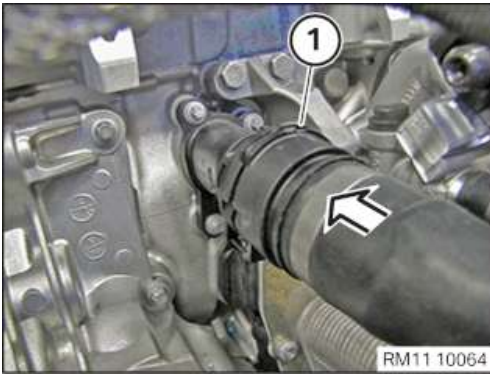
11 42 2AZ	Type	Thread	Tightening specifications	Dimension
2 Oil drain plug A to oil filter Z cover	B42S2000 / B46M0/O0 / B48M0/O0		Renew screw.	5 Nm



Clip engine wiring harness (3) into full-flow oil filter.

Clip tank ventilation line (2) into full-flow oil filter.

Clip positive wire (1) into full-flow oil filter.

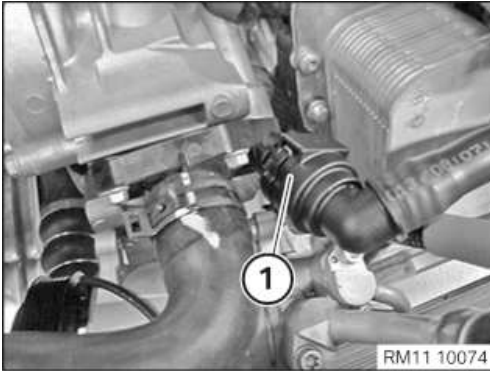


Connect coolant hose (1).

Lock must snap audibly into place.

Note:

Shown with intake plenum removed for purposes of clarity.



Connect coolant hose (1).

Lock must snap audibly into place.



Required follow-up work:

- Install auxiliary coolant pump.
- Install underbody protection.
- Top up coolant.
- Connect battery earth lead.



Checking oil level:

- Vehicle horizontal
- Start engine and run at idle until oil pressure indicator light goes out
- Switch off engine
- Read off engine oil level in instrument panel or on Control Display

If necessary, pour in engine oil.

Check oil filter cover and screw plug on oil sump for leaks.