

2019 BMW 330i xDrive Sedan (G20) L4-2.0L Turbo (B46D)

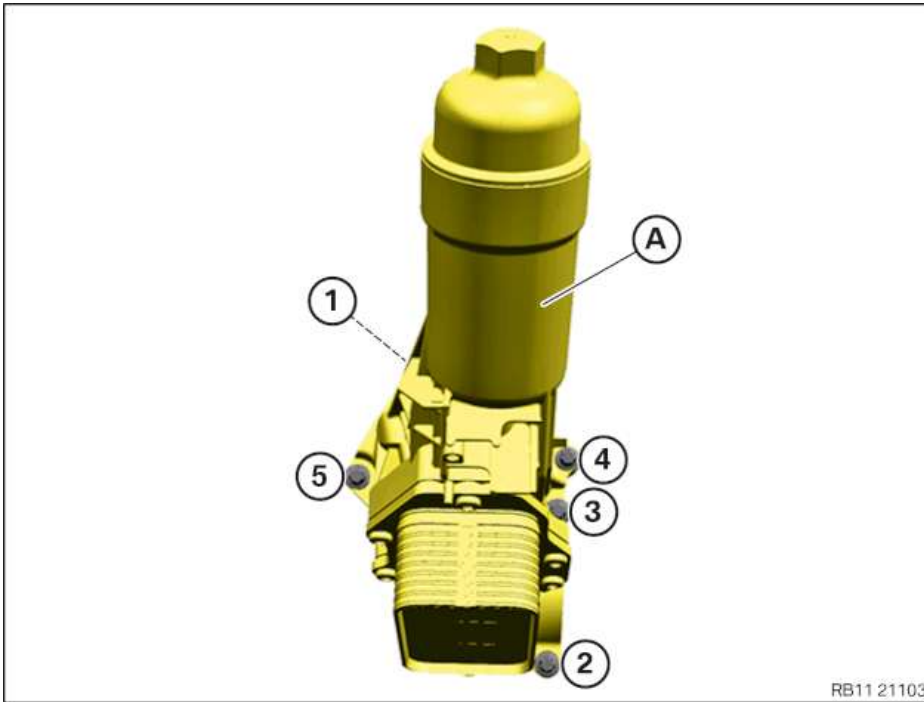
Vehicle > Engine, Cooling and Exhaust > Engine > Engine Lubrication > Oil Filter > Service and Repair > Removal and Replacement

INSTALL THE COMPLETE FULL-FLOW OIL FILTER [REP-TAT-P-1142-02-G31_B48_2]

Install the complete full-flow oil filter

REP-TAT-P-1142-02-G31_B48_2

Full-flow oil filter



RB11 21103

A Full-flow oil filter

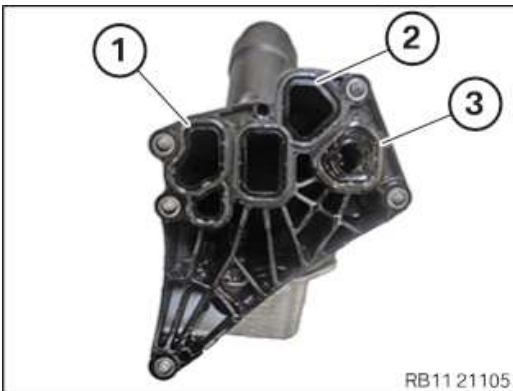
1 - Screws

5



TECHNICAL INFORMATION

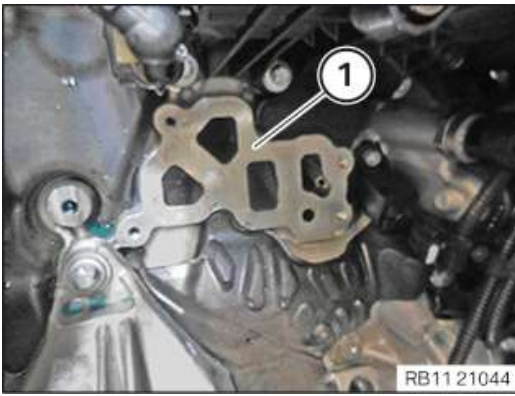
The sealing surfaces must be free of oil, grease and cleaning agents.



RB11 21105

- Renew the gaskets (1), (2) and (3) on the full-flow oil filter.

Parts: Seals

**RISK OF DAMAGE**

Damage to the surface.

The use of metal-cutting tools (e.g., emery cloths) for cleaning surfaces can damage them and lead to leaks and/or engine damage.

- Do not use any metal-cutting tools.

- Clean the sealing residue off the sealing surface (1) on the crankcase using the special tool 0 495 102 (11 4 470).

- Have a cleaning cloth ready.

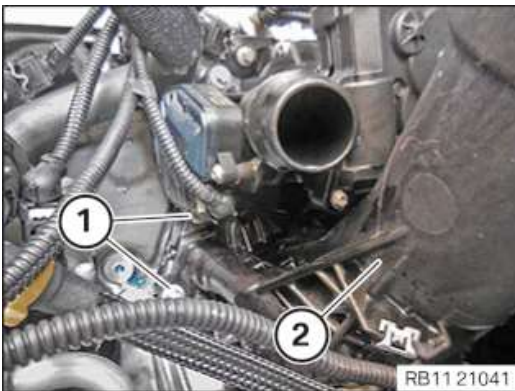
**RISK OF DAMAGE**

Damage to the engine.

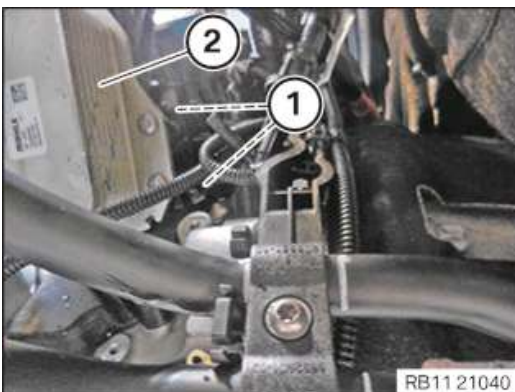
If the engine is manually rotated in the wrong direction of rotation, the engine can be damaged.

- Only rotate the engine manually in the correct direction of rotation: a) clockwise when looking at the damper, or b) counterclockwise when looking at the chain drive. b) applies only if the timing chain is installed in the rear.

- Crank the engine with the special tool 0 493 380 (11 6 480) until the motor oil flows in the area of the oil duct (1).



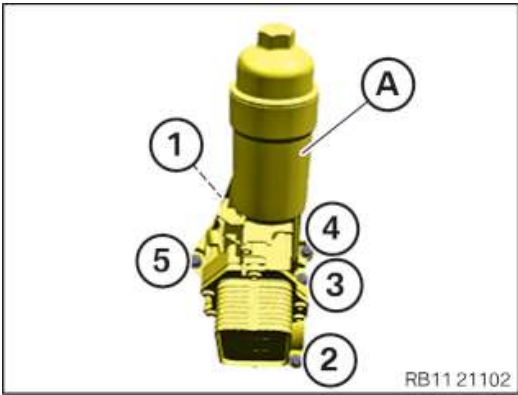
- Install full-flow oil filter (2) from the top and position it.
- Hand-tighten the bolts (1).



- Apply the screws (1) the full-flow oil filter (2) hand-tight.



- Apply the screws (1) the full-flow oil filter (2) hand-tight.



i TECHNICAL INFORMATION

When assembling, it is essential to observe screwing sequences and tightening torques.

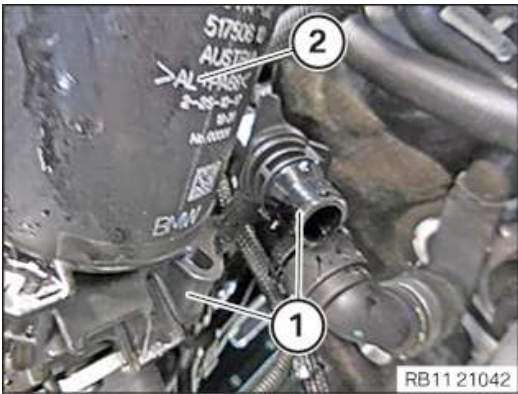
Failure to comply with the regulations can lead to leaks and damage.

- Tighten the screw at the full-flow oil filter (A) in the order (1) to (5).

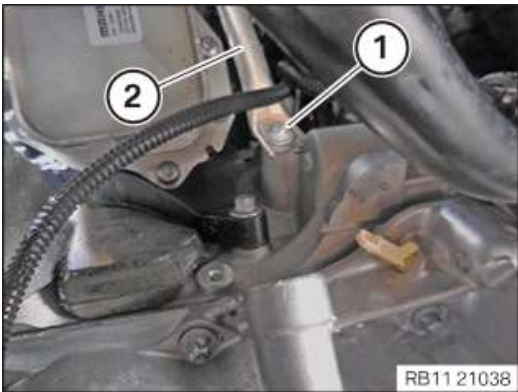
Tightening torques

Full-flow oil filter to crankcase

M6	Joining torque	4Nm
Observe tightening sequence.	Tightening torque	10Nm



- Feed in and install the coolant line (1) on the full-flow oil filter (2).

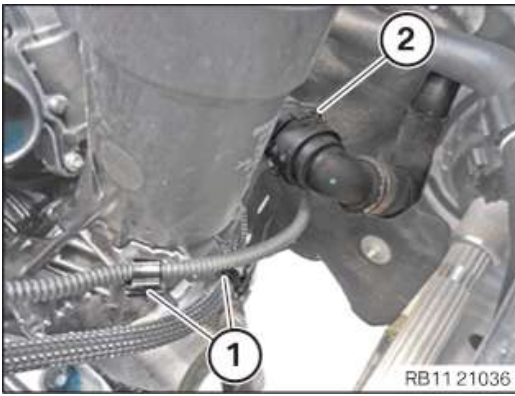


- Feed in and install the manifold bracket (2).
- Tighten down screw (1).

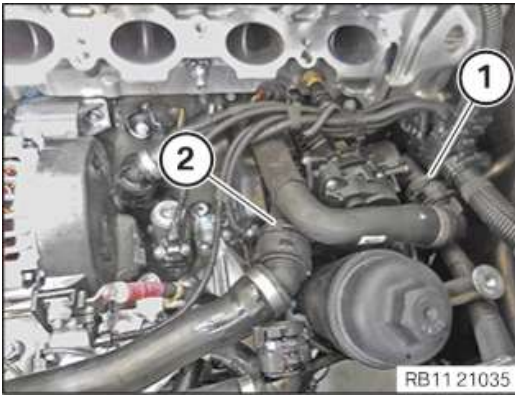
Tightening torques

Manifold bracket to crankcase

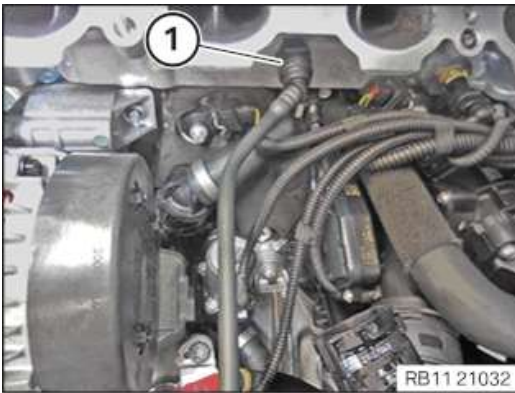
M6x16	tightening torque	8Nm
-------	-------------------	-----



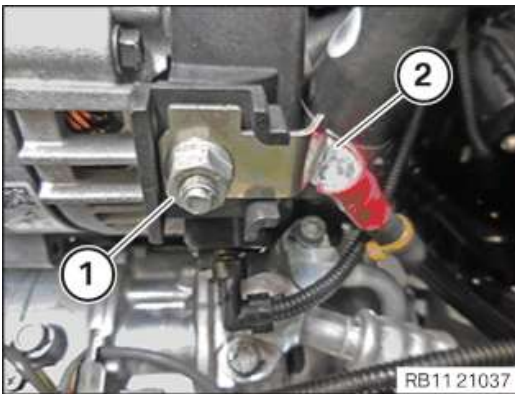
- Secure clamps (1).
- Connect and lock coolant line (2).
- Make sure that the cooling line (2) engages audibly.



- Connect and lock coolant line (1).
- Connect and lock coolant line (2).
- Make sure that you can hear coolant lines (1) and (2) engage.



- Feed in and install coolant line (1).
- Make sure that the cooling line (1) engages audibly.

**CAUTION**

Improper routing of the positive battery cable.

Risk of short circuits!

- Route the positive battery cable without abrasions and do not trap.

- Insert and install the positive battery cable (2).
- Tighten nut (1).

Tightening torques

Positive battery cable to the alternator

M8	<u>Tightening torque</u>	19Nm
----	--------------------------	------

Removing And Installing/Replacing Full-Flow Oil Filter Completely		
Back To Step 24	<i>Step 25 of 48</i>	Go To Step 26