



## Model

F39 (X2 M35i Sports Activity Coupe)	G07 (X7 Sports Activity Vehicle)	G20 (3 Series Sedan)	G29 (Z4 Roadster)
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Produced from October 1 thru December 15, 2018

## Situation

"Check engine oil level" Check Control message (ID961) appears when starting the engine, and again at the end of a trip.

An additional message can also appear: "The engine oil level has not been determined for a long time. Please measure engine oil level."

Fault code:	Control module:	Fault code text:
1C4001	DME	Engine oil level: Measurement required

## Cause

Software error in the diagnostic function for the oil-level sensor.

Affected I Levels: from **18-11-500** to **18-11-530**

Background:

If an electrical or signal fault occurs in the oil level sensor, the sensor is not detected in the component diagnosis. As a result, the fault memory entry "1C4110 - oil-level sensor: Malfunction" will not be displayed.

If the engine oil level monitoring is not working, after approx. 18 hours of engine operation the fault memory entry "1C4001 - engine oil level: Measurement required" is entered.



Note:

If plausibility monitoring is working correctly, an electrical or signal fault in the oil level sensor will trigger the fault memory entry "1C4110 - oil-level sensor: malfunction". This takes place if the fault is detected in two successive driving cycles longer than one minute.

## Procedure

1. Check the engine oil level via "Detailed measurement".

Prerequisites:

- Vehicle is parked on a level surface
- Engine is running and at operating temperature
- Transmission selector lever either in N or P
- Do not press the accelerator pedal

Use the iDrive path:

- Car / Vehicle Status / Engine oil level / Engine oil measurement / Start measurement

- Measurement progress is shown as percentage
- The measurement takes approx. 1 minute

After a successful measurement, the oil level is displayed as a green bar on a "dipstick" scale.

Note: Engine oil top-ups are excluded from the scope of this service bulletin.

- If the engine oil level check is OK: Continue to Step 2a through 2c.
- If the engine oil level check is canceled (after approx. 8 seconds), or cannot be selected (greyed out): Follow step 3a through 3c.

2. Read out the I Level of the vehicle.

1. Program the I Level of the vehicle if it is lower (older) the target I Level below:

Model	Target I Level
G07 (X7 Sports Activity Vehicle)	S18A-18-11-530
G20 (3 Series Sedan)	
G29 (Z4 Roadster)	

Model	Target I Level
F39 (X2 M35i Sports Activity Coupe)	F056-18-11-530

1. Refer the customer to the Electronic Owner's Manual for the prerequisites for checking the engine oil level via "Detailed measurement" are described.

- iDrive path: Car / Owner's Manual / Oil / Electronic Oil Measurement / scroll down to Detailed Measurement, then "Functional requirements".

1. No further activity required.

3. Oil level check is canceled, or is not possible due to greyed out selection:

1. Read out the I Level of the vehicle.

1. Program the I Level of the vehicle if it is lower (older) the target I Level below:

Model	Target I Level
G07 (X7 Sports Activity Vehicle)	S18A-18-11-530
G20 (3 Series Sedan)	
G29 (Z4 Roadster)	

Model	Target I Level
F39 (X2 M35i Sports Activity Coupe)	F056-18-11-530



Attention:

c. Activate the ISTA service function to determine the engine oil quantity.

- ISTA path: Service functions / Drive / DME / Engine oil / Engine oil quantity



Note:

- If there is a fault when determining the engine oil quantity, the above service function references the corresponding test modules.
- If the fault "1C4110 - oil-level sensor: Malfunction" is entered: Work through the corresponding test module.
- **Always connect a BMW-approved battery charger/power supply (SI B04 23 10) when performing programming.**

## Warranty Information

Note: Engine oil top-ups may not be charged to this defect code.

**When the vehicle's current i Level is lower than 18-11-530:**

<b>Defect Code:</b>	<b>1261001500</b>	<b>Oil level sensor/oil condition sensor permanent malfunction</b>
<b>Labor Operation:</b>	<b>Labor Allowance:</b>	<b>Description:</b>
00 00 006	Refer to AIR/KSD2	Performing "vehicle test" (with vehicle diagnosis system – checking faults) (Main work)
Or:		
00 00 556	Refer to AIR/KSD2	Performing "vehicle test" (with vehicle diagnosis system – checking faults) (Plus work)
61 21 528:	Refer to AIR/KSD2	Connect an approved battery charger/power supply (indicated in KSD2 as "Charging battery")
And:		
61 00 730	Refer to AIR/KSD2	Programming/encoding control unit(s)

Labor operation code 00 00 006 is a Main labor operation. If you are using a Main labor code for another repair, use the Plus code labor operation 00 00 556 instead.

During the same workshop visit, **if a vehicle also requires another Technical Campaign or repair that also includes programming and encoding the control modules, the programming procedure may only be invoiced one time.**

**Programming and Encoding - Vehicle Control Units**

- The programming procedure** automatically reprograms and encodes all vehicle control modules which do not have the latest software I Level. If one or more control module failures occur "during" this programming procedure:
  - Please claim this "consequential" control module-related repair work under the defect code listed in this bulletin with the applicable AIR/KSD2 labor operations.

Please explain this additional work (The why and what) on the repair order and in the claim comments section.

- For control module failures that occurred "prior" to performing this programming procedure:
  - When "covered" under an applicable limited warranty, claim this control module-related repair work using the applicable defect code and labor operations (including diagnosis) in AIR/KSD2.

**Other Repairs**

After vehicle programming/encoding or if the vehicle is at or above the required minimum i level, when other eligible and covered work is performed as a result of performing the ISTA diagnostics and related test plans, claim this work with the applicable defect code and labor operations (including diagnosis) listed in the AIR/KSD2.