



WRONG OUTSIDE TEMPERATURE DISPLAY

MODEL

G12 (M760Li_xDrive)

Produced to June 01, 2017

SITUATION

During stop and go or slow driving, with the engine at operating temperature, the ambient outside temperature display deviates in the instrument cluster by up to +10 degrees from the real ambient temperature.

CAUSE

Location of ambient temperature sensor. Temperature readings are influenced by:

- External engine oil cooler.
- Ambient temperature of operating engine compartment.

CORRECTION

Install thermal protection insulating mat for the outside temperature sensor. This mat is installed behind the front bumper cover on the passenger side of the vehicle.

PROCEDURE

For conditions that are similar to the situation described:

1. Run diagnosis with ISTA 4 and work through the corresponding test module if necessary.

Did the ABL identify a fault?

YES - follow diagnostic test plan.

NO - install thermal protection for the outside temperature sensor (insulating mat) in the vehicle.

2. Follow REP 51 11 157 to access right side of front bumper cover.
3. Install the thermal protection mat for the outside temperature sensor. (See Step 16 of the REP for details on installation location).



4. Reinstall remaining components.
5. Program and encode the vehicle with ISTA/P 3.61.0 or ISTA 4.04.12 or higher version.

G12 (M760Li_xDrive)	Target integration level: S15A-17-03-502 or higher
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Note that ISTA/P or ISTA 4 will automatically reprogram and code all programmable control modules that do not have the latest software.

Always connect a BMW approved battery charger/power supply ([SI B04 23 10](#)).

For information on programming and coding with ISTA/P or ISTA 4, refer to CenterNet / TIS / Technical Documentation / Diagnostics and Programming / Programming Documentation.

PARTS INFORMATION

With SA 715 (Aerodynamic Package)

Part Number	Description	Quantity
51 11 8 091 218	Isolation mat, thermal, right	1

OR

With SA 7GY (model V12 Excellence)

Part Number	Description	Quantity
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51 11 7 497 454

Isolation mat, thermal, right

1

WARRANTY INFORMATION

Covered under the terms of the BMW New Vehicle Limited Warranty for Passenger Cars and Light Trucks.

Defect Code:	6581031800	
Labor Operation:	Labor Allowance:	Description:
00 00 006	Refer to KSD2	Performing "vehicle test" (with vehicle diagnosis system – checking faults) (Main work)
Or:		
00 00 556	Refer to KSD2	Performing "vehicle test" (with vehicle diagnosis system – checking faults) (Plus work)
And:		
61 21 528	Refer to KSD2	Connect an approved battery charger/power supply (indicated in KSD 2 as Charging battery)
And:		
51 11 656	Refer to KSD2	Removing and installing front bumper panel
And:		
51 99 000	1 FRU	Work time for installation of thermal protection insulating mat
And:		
61 00 730	Refer to KSD2	Programming/encoding control unit(s)

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

Refer to KSD2 for the corresponding flat rate unit (FRU) allowances.

Work time labor operation code 51 99 000 is not considered a Main labor operation. Also, since the “work time” FRU allowance to be claimed is specified, a separate punch time is not required.

Vehicle Programming and Coding

When ISTA/P automatically reprograms and codes all the vehicle’s control modules that “currently do not have” the latest software and 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 KSD2/AIR labor operations.

And:

Other Repairs

Control module failures that occurred prior to this programming procedure and/or additional work is performed as a result of performing the ISTA diagnostics and related test plans:

- When covered under an applicable limited warranty, claim the control module-related and/or other repair work using the applicable defect code and labor operations in KSD2/AIR.

ATTACHMENTS

View PDF attachment [REP 51 11 157](#).

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