

July 2016 Technical Service

N63R Map Thermostat Faults

This Service Information bulletin supersedes SI 12 13 16 dated May 2016

MODEL

G12 (750i sedan)

SITUATION

The Service Engine Soon light is on with one or more of the following fault codes:

- 1D2009 characteristic map thermostat: clamped closed
- 10921B characteristic map thermostat, stroke sensor: short circuit to ground
- 1D2008 characteristic map thermostat: clamped open
- 1D2401 characteristic map thermostat, actuation: short circuit to B+
- 10921A characteristic map thermostat, stroke sensor: short circuit to B+
- 1FB201 Check Control message (ID 257): Engine too hot! Drive gently
- 1FB301 Check Control message (ID 39): Engine overheated. Stop carefully
- 1D2404 characteristic map thermostat, actuation: line disconnection
- 1D2402 characteristic map thermostat, actuation: short circuit to ground

In severe cases there may be no communication with the DME (MASTER DME – control unit description file DME8FF_R)

CAUSE

Coolant is leaking past the map thermostat electrical connector.

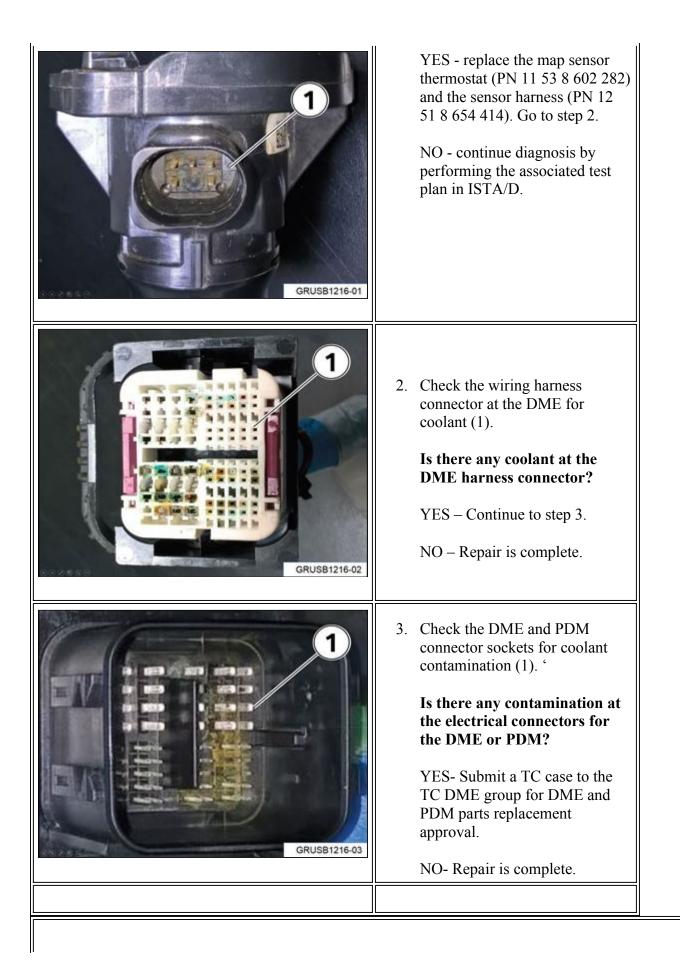
CORRECTION

Replace contaminated components.

PROCEDURE

1. Remove the connector for the map thermostat (1) and check for coolant.

Is coolant present in the engine wiring sensor harness for cylinders 1-4?





PARTS INFORMATION

Part Number	Description	Quantity
11 53 8 602 282	Thermostat	1
12 51 8 654 414	Wiring harness, engine	1

	sensor module 1-4	
Refer to ETK	DME	1 if needed
Refer to ETK	PDM	1 if needed

WARRANTY INFORMATION

Covered under the terms of the BMW New Vehicle Limited Warranty for Passenger Cars and Light Trucks or the BMW Certified Pre-Owned Program.

Defect Code:	11 53 12 96 00	
Labor Operation:	Labor Allowance:	Description:
00 00 006	Refer to KSD	Performing "vehicle test" (with vehicle diagnosis system – checking faults)
And:		
61 21 528	Refer to KSD2	Connect an approved battery charger/power supply(indicated in KSD2 as "Charging battery")
And:		
11 53 500	Refer to KSD2	Removing and installing/replacing coolant thermostat

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

If the front underguard is already removed, then use labor operation 11 53 502, or if the engine coolant is already drained, then use 11 53 700.

And, as necessary:

UPDATE Labor Operation:	Labor Allowance:	Description:
12 51 802	Refer to KSD2	Remove and install / replace wiring harness section, sensor system module cylinder 1-4 (Plus work)

And, as necessary:

Labor Operation:	Labor Allowance:	Description:
12 14 555	Refer to KSD2	Replace the DME 1-4

And:		
61 00 730	Refer to KSD2	Programming/encoding control units

And, as necessary:

Labor Operation:	Labor Allowance:	Description:
12 63 586	Refer to KSD2	Replace the PDM

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

And, as necessary:

Sublet – Bulk Materials

Sublet Code 4	See sublet reimbursement calculation below	Reimbursement for the repair-related bulk materials (BMW part number, please do not use the part numbers for claim submission)
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Sublet reimbursement calculation (BMW part numbers):

BMW Antifreeze/Coolant for the amount needed to replace what was drained with a "50/50 coolant/water solution" at dealer net plus your center's handling.

For claiming the "used quantities" of other repair-related bulk materials is at dealer net plus your center's handling.

Enter this material cost in sublet and itemize the amount on the repair order and in claim comment section.

Vehicle Programming and Coding

Control module failures that occur during programming:

• Please claim these consequential repairs under the defect code listed in this bulletin and use the applicable KSD2 labor operations.

Other Repairs

Control module failures that occur prior to programming:

• When covered under an applicable limited warranty, claim these repairs using the applicable defect code and labor operations in KSD2.

Overlapping Labor – Associated and/or Other Repairs

If invoicing KSD2 flat rate labor operation codes for any additional repair work results in overlapping labor being claimed, invoice work time labor operation 00 50 000 for the additional time (FRU) minus the overlap instead.

On the repair order and in the claim comment section, please identify the labor operations that labor operation code 00 50 000 replaces and itemize the claimed FRU amount.

Work time labor operation code 00 50 000 is not considered a Main labor operation.

Associated Repairs: When work time labor operation 00 50 000 is used as an extension of the repair outlined in this bulletin, a separate defect code and punch time(s) are not required.

Other Repairs: When work time labor operation 00 50 000 is used for work that will be claimed under a different defect code, separate punch time(s) are required.

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