



SI B12 33 14  
Engine Electrical Systems

March 2015  
Technical Service

This Service Information bulletin supersedes SI 12 33 14 dated **December 2014**.

**NEW** designates changes to this revision

#### SUBJECT

**Fault Code 1D2008 Stored in DME**

#### MODEL

F22 (2 Series)

F25 (X3)

F26 (X4)

F30 (3 Series Sedan)

F32 (4 Series Coupe)

F33 (4 Series Convertible)

F34 (3 Series Gran Turismo)

F36 (4 Series Gran Turismo)

With automatic transmission

#### SITUATION

The Service Engine Soon light is on. Fault Code 1D2008: Map thermostat: jammed open is stored in the DME. There may also be a complaint of low heat output with lower outside temperatures.

#### CAUSE

During the engine warm-up, the engine coolant does not reach operating temperature within the DME's allowable time limits.

This is caused by either a faulty thermostat inside the transmission oil heat exchanger or a faulty engine characteristic map thermostat.

#### PROCEDURE

Note: The following checking procedure must be performed on a cold engine.

|  |   |
|--|---|
|  | <p>Remove the front underbody protection panel (tightening torque of screws is 3Nm) to access the cooling lines to the transmission oil heat exchanger (1).<br/>(Note: All illustrations were taken on an F30 328xi N20).</p> |
|--|---|



Clamp off the outflow hose (1) on the cooler with special tool 81 64 2 184 117 (SI [B04 07 11](#)). The outflow hose is the softer (rubber) of the two cooling lines on the heat exchanger.



After clamping, remove the outflow hose from the heat exchanger (1).

Loosen the cap on the coolant expansion tank (1).



**If any coolant starts leaking out of the transmission heat exchanger (1), the internal thermostat is jammed and the heat exchanger will need to be replaced. Follow Repair Instruction RA 17 22 010, “Removing and installing/replacing transmission oil cooler for automatic transmission (N20, N26, N55).”**

**NEW** A TC PuMA case must be submitted titled “Leaking Transmission Cooler Thermostat” for parts replacement authorization.

If there is **no coolant loss** out of the heat exchanger, replace the engine coolant thermostat.

Follow Repair Instruction RA 11 53 000, “Removing and installing/replacing coolant thermostat.”

#### PARTS INFORMATION

| Part Number     | Description                                    | Quantity |
|-----------------|--|----------|
| 17 21 7 600 553 | Heat exchanger (transmission 2, 3 or 4 Series) | 1*       |
| 17 21 7 593 856 | Heat exchanger (transmission X3 and X4)        | 1*       |
| Or:             |  |          |
| 11 53 8 636 594 | Thermostat (N20, N26)                          | 1*       |
| 11 53 7 598 865 | Thermostat (N55)                               | 1*       |

\* If needed

**WARRANTY INFORMATION**

Covered under the terms of the BMW New Vehicle/SAV Limited Warranty or the BMW Certified Pre-Owned Program.

|                         |                         |  |
|-------------------------|-------------------------|--|
| <b>Defect Code:</b>     | <b>17 21 01 48 00</b>   | <b>Heat exchanger, automatic transmission</b>  |
|                         |                         |  |
| <b>Labor Operation:</b> | <b>Labor Allowance:</b> | <b>Description:</b>  |
| 17 22 010               | Refer to KSD2           | Replacing heat exchanger for automatic transmission (Includes 00 11 237/500: checking/topping up automatic transmission fluid level which includes performing a Vehicle Test and charging the battery) |
| And:                    |                         |  |
| 17 99 000               | 4 FRU                   | Work time for checking the function of the thermostat in the transmission heat exchanger   |

Labor operation code 17 22 010 is a Main labor operation. If you are using a Main labor code for another repair, use the Plus code labor operation 17 22 510 instead.

And, as needed:

|               |  |   |
|---------------|--|---|
| Sublet Code 4 | See sublet reimbursement calculation below | Reimbursement for the used quantity of transmission fluid (Bulk container reference P/N 83 22 2 220 439 for 20 liters or P/N 83 22 2 220 443 for one liter). Please do not use these part numbers for claim submission. |
|---------------|--|---|

Sublet calculation: Reimbursement for used quantities of transmission fluid (P/N 83 22 2 220 439 for 20 liters or P/N 83 22 2 220 443 for one liter) at dealer net plus handling.

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

Or:

|                         |                         |  |
|-------------------------|-------------------------|--|
| <b>Defect Code:</b>     | <b>11 53 12 96 00</b>   | <b>Characteristic map thermostat</b>   |
|                         |                         |  |
| <b>Labor Operation:</b> | <b>Labor Allowance:</b> | <b>Description:</b>  |
| 00 00 006               | Refer to KSD2           | 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       |               |  |
| 17 99 000 | 4 FRU         | Checking the function of the thermostat in the transmission heat exchanger |
| And:      |               |  |
| 11 53 500 | Refer to KSD2 | Replacing coolant thermostat   |

Labor operation code 00 00 0006 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.

And, as needed:

|               |  |   |
|---------------|--|---|
| Sublet Code 4 | See sublet reimbursement calculation below | Reimbursement for replacing the drained quantity of antifreeze/coolant (bulk container reference BMW P/N 82 14 1 467 704, one gallon container. Please do not use this part number for claim submission.) |
|---------------|--|---|

Sublet calculation: BMW antifreeze/coolant (1 gallon bulk container reference P/N 82 14 1 467 704) for approximately 1 liter that is needed for this repair (50/50 mixture) at dealer net plus handling.

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

Refer to KSD2 for the corresponding flat rate unit (FRU) allowance. Enter the Chassis Number, which consists of the last 7 digits of the Vehicle Identification Number (VIN). Click on the “Search” button, and then enter the applicable flat rate labor operation in the FR code field.

Even though work time labor operation code 17 99 000 ends in “000,” it 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.

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