

**SUBJECT****DME Internal and Valvetronic Faults Set at Cold Ambient Temperatures****MODEL**

E70 (X5)

E71 (X6)

E82 (1 Series Coupe)

E84 (X1)

E88 (1 Series Convertible)

E89 (Z4 Roadster)

E90 (3 Series Sedan)

E92 (3 Series Coupe)

E93 (3 Series Convertible)

F01 (7 Series Sedan)

F02 (7 Series Sedan LWB)

F06 (6 Series Gran Coupe)

F07 (5 Series Gran Turismo)

F10 (5 Series Sedan)

F12 (6 Series Convertible)

F13 (6 Series Coupe)

F15 (X5)

F22 (2 Series Coupe)

F25 (X3)

F26 (X4)

F30 (3 Series Sedan)

F31 (3 Series Sports Wagon)

F32 (4 Series Coupe)

F33 (4 Series Convertible)

F36 (4 Series Gran Coupe)

Produced to 7/24/2014

With the N20, N26, N55, and N63T engines

Note:

Vehicles with the N55 engine: only those equipped with the Bosch high-pressure pump are affected.

The different N55 variants can be determined by the vehicle's plant integration level:

N55 with Continental HDP - older (less) than Xxxx-12-03-500

N55 with **Bosch HDP** - Xxxx-12-03-500 and newer (higher)

The exception is the F30, which began production with the MEVD1726 DME (**Bosch HDP**) at plant integration level F020-11-11-500.

SITUATION

The Service Engine Soon light (MIL) can be illuminated with the erroneous internal and Valvetronic faults stored in the DME.

The MIL will only come on if the fault has been detected on two (or more) consecutive drive cycles.

The following fault codes may be stored in the DME:

E Series

- **36AE** – DME, internal fault, Valvetronic: Current implausible

One or more of the following secondary faults may also be stored:

- **2DE2** – Valvetronic, actuation, voltage phase: Line disconnection
- **2DE3** – Valvetronic, actuation, volt phase: Line disconnection
- **2DE4** – Valvetronic, actuation, volt phase: Line disconnection

F Series

- **1F0905** – DME, internal fault, Valvetronic: Current implausible

One or more of the following secondary faults may also be stored:

- **135B10** – Valvetronic, actuation, voltage phase: Line disconnection
- **135B11** – Valvetronic, actuation, volt phase: Line disconnection
- **135B12** – Valvetronic, actuation, volt phase: Line disconnection

Engine performance and driving characteristics are not affected.

CAUSE

DME software diagnostic sensitivity

CORRECTION

Perform diagnosis using the latest version of ISTA.

Program the vehicle using the latest version of ISTA/P.

The erroneous faults will no longer occur with DME software integration levels equal to or higher than those listed below:

Engine and Series	Target integration level or higher
N20 (E84, E89)	E89X-14-07-500
N20, N26 (F22, F30, F31, F32, F33, F36)	F020-14-07-502
N20 (F25, F26)	F025-14-07-502
N20 (F10)	F010-14-07-503
N55 (E82, E84, E88, E92, E93)	E89X-14-07-500
N55 (E70, E71)	E070-14-11-501
N55 (F01, F02, F07)	F001-14-03-503
N55 (F06, F10, F12, F13)	F010-14-03-503
N55 (F15, F25, F26)	F025-14-03-503
N55 (F22, F30, F31, F32, F33, F36)	F020-14-03-503
N63T (F01, F02, F07)	F001-14-07-503
N63T (F06, F10, F12, F13)	F010-14-07-503

N63T (F15, F16)	F025-14-07-502

Note that ISTA/P 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, refer to Centernet / Aftersales Portal / Service / Workshop Technology / Vehicle Programming.

WARRANTY INFORMATION

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

Defect Code:	10 11 00 47 00	
Labor Operation:	Labor Allowance:	Description:
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 KSD 2 as Charging battery)
And, as necessary:		
61 00 006	Work time (WT)	Performing vehicle diagnosis – test module

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.

Even though work time labor operation code 61 00 006 ends in “006,” it is not considered a Main labor operation.

Work time (WT) labor operation 61 00 006 requires an individual punch time.

And:

F Series Vehicles

Labor Operation:	Labor Allowance:	Description:
61 00 730	Refer to KSD2	Programming/encoding control unit(s)

Or:

E Series Vehicles

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Labor Operation:	Labor Allowance:	Description:
61 00 710	Refer to KSD2	Programming/encoding control unit(s) (not including CAS)
Or:		
61 00 720	Refer to KSD2	Programming/encoding control unit(s) (with CAS)

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.

If a vehicle control module or component was working properly and/or had no related faults stored prior to vehicle programming and it fails to program correctly and/or requires initialization, this additional work must be claimed with separate labor operations under the defect code listed above; refer to KSD2.

Repairs to address control modules and/or components with pre-existing conditions are not eligible to be claimed under the defect code listed in this bulletin.

Other Repairs

If performing ISTA diagnostics and related test plans results in other eligible and covered work, claim this work with the applicable defect code and labor operations listed in KSD2.

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