	SI B12 15 13	January 2014
BMW	Engine	Technical Service

This Service Information bulletin supersedes SI B12 15 13 **dated December 2013.**

NEW designates changes to this revision

SUBJECT
N20 and N26 Engine: Various VANOS System Faults Stored in DME

MODEL
E84

E89

F10

F25

F30

F31

F34

SITUATION
The Service Engine Soon lamp and Engine Malfunction warning are illuminated, and the vehicle has reduced power output. This situation can occur as a customer complaint, or after performing repairs to the engine valve train assembly. One or more of the following faults is stored in the DME.

F10, F25, F30, F31 and F34:

131401 VANOS, exhaust, starting from cold: Non-adjustable

131501 VANOS, intake, starting from cold: Non-adjustable

131808 VANOS, exhaust, starting from cold: Position not reached

131908 VANOS, intake, starting from cold: Position not reached

130104 VANOS, intake, control fault, camshaft jammed

130304 VANOS, exhaust, control fault, camshaft jammed

130308 VANOS, exhaust, control fault, position not reached

130108 VANOS, intake, control fault, position not reached

E84 and E89:

2D54 VANOS, exhaust, starting from cold: Non-adjustable

2D55 VANOS, intake, starting from cold: Non-adjustable

2D56 VANOS, exhaust, starting from cold: Position not reached

2D57 VANOS, intake, starting from cold: Position not reached

2D60 VANOS, exhaust, control fault, camshaft jammed

2D5A VANOS, intake, control fault, camshaft jammed

2D5B VANOS, intake, control fault, position not reached

2D61 VANOS, exhaust, control fault, position not reached

If one of the applicable faults listed above is not stored in the DME fault memory then continue troubleshooting with the applicable test plan for the fault(s) stored.

CAUSE
This is due to a diagnostic programming error in the DME.

PROCEDURE
If one of the applicable faults listed above is stored in the DME then continue with the procedure outlined below.

Do not replace any parts.

Perform a vehicle test.

F10, F25, F30, F31 and F34:

Reprogram the vehicle ISTA/P 2.50.4 or higher. The improved DME software was introduced with the following integration levels:

F010-13-07-506 for the F10

F020-13-07-506 for the F3x

F025-13-07-506 for the F25

E84 and E89:

Reprogram the vehicle ISTA/P 2.51.0 or higher. The improved DME software was introduced with the following integration levels:

NEW E89X-13 -07-505 for the E84 and E89

Note that ISTA/P will automatically reprogram and code all programmable control modules that do not have the latest software. For information on programming and coding with ISTA/P, refer to CenterNet / Aftersales Portal / Service / Workshop Technology / Vehicle Programming.

NEW **Always connect a BMW approved battery charger / power supply (SI**B04 23 10**).**

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

Specific eligible repairs **may** also be covered by the terms of the Federal, State or BMW Emissions Warranty.

To determine if any **applicable** Federal, State or BMW Emissions Warranty coverage applies prior to performing repairs, please see SI B01 02 11 for "Emissions Warranty Coverage" and refer to the "Glossary of Emission Coverage" attachment for more information.

The BMW Certified Pre-Owned Limited Warranty applies to BMW CPO vehicles that are still within the BMW Certified Pre-Owned Limited Warranty and this coverage extends beyond the Emissions Warranty coverage that applies.

Defect Code:	11 36 01 96 00	
Labor Operation:	Labor Allowance:	Description:
00 00 006	Refer to KSD2	Performing "vehicle test" (with vehicle diagnosis system – checking faults)
NEW and		
61 21 528	Refer to KSD2	Charging battery
and as necessary		
61 00 006	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

E84 and E89

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)

or

F10, F25, F30, F31 and F34

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

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.

NEW If a control module fails to program correctly or initializations are required, the additional work must be claimed using separate labor operations found in KSD2 under the defect code listed above.

Other Repairs

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