

**SUBJECT****Deleting DME Adaptations After Crankshaft Sensor-related Repairs****MODEL**

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)

F23 (2 Series Convertible)

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 7/2014

With the N63T engine

or

Produced to 11/2014

With the N20, N26, and N55 engines

SITUATION

The erroneous misfire faults are stored, and the Service Engine Soon light (MIL) illuminates

The ISTA Service Function to delete the DME adaptations fails to clear the crankshaft incremental wheel adaptation, depending on the current DME software version.

This adaptation must be cleared whenever the following repairs are made:

1. Replacement of the crankshaft position sensor
2. Replacement of the incremental sensor wheel on the crankshaft
3. Replacement of the crankshaft
4. Replacement of the crankcase (block) with pistons
5. Replacement of the engine assembly

Due to slight tolerance differences with the new replacement hardware and the original learned crankshaft position, values could cause cylinder balance calculation errors by the DME.

CAUSE

DME software (the incremental wheel adaptation cannot be cleared)

CORRECTION

Whenever any of these engine repairs are completed, the vehicle must also be programmed, if the current integration level is lower than the targets when the corrected DME software was introduced.

Engine	Target integration level or higher
N63T	F0xx-14-07-500
N20, N26, N55	F0xx-14-11-500

If the vehicle is already at or higher than the target integration level, it is only necessary to clear the DME adaptations once repairs are completed.

To do this, use the latest version of ISTA and the Service Function found in the following path:

Service Functions / 01 Drive / Engine electronics MEVD / Adjustment functions / Clear adaptations

WARRANTY INFORMATION

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

Defect Code:	Refer to KSD2	Repair items 1 through 5 (listed above)
Labor Operation:	Labor Allowance:	Description:
00 00 556	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:		
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.

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

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

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