BMW	SI B13 03 14 Fuel Systems	July 2014 Technical Service

SUBJECT
Service Engine Soon Lamp (MIL) On with NOx Sensor Faults Stored

MODEL
F25 (X3 xDrive 28d)

F30 (3 Series Sedan 328d)

F31 (3 Series Sport Wagon 328d)

With the N47T engine produced to 7/2014

F02 (7 Series Sedan 740Ld)

F10 (5 Series Sedan 535d)

F15 (X5 xDrive 35d)

With the N57T engine produced to 7/2014

SITUATION
The Service Engine Soon lamp (MIL) is on with either of the following nitrogen oxide (NOx) sensor faults stored:

- 2B6200 - NOx sensor before DeNOx catalytic converter, plausibility: Sensor self-diagnosis of sensitivity
- 2B6300 - NOx sensor After DeNOx catalytic converter, plausibility: Sensor self-diagnosis of sensitivity

These stored faults would not cause a problem with engine performance.

This NOx self-diagnostic routine is performed only after the engine has been shut off.

In some situations, the diagnostic function of both NOx sensors can be too sensitive when sampling the residual exhaust gases, leading to an erroneous fault being set.

CAUSE
Unfavorable DDE software diagnostics

CORRECTION
Do not replace any parts.

Program the vehicle using ISTA/P 2.53.2 or a more recent version.

Target integration level: F020-14-07-503 or higher

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.

If after programming, any of the faults listed above continue to be stored following a few driving cycles, continue diagnosis with ISTA and replace the sensor.

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

Defect Code:	11 78 07 15 00	NOx sensor before SCR catalytic converter
	or	
	11 78 08 15 00	NOx sensor after SCR catalytic converter
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 KSD2 as Charging battery)		
and		
61 00 730	Refer to KSD2	Programming/encoding control unit(s)

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.

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 control module(s) fail to program correctly or initializations are required, the additional work must be claimed using separate labor operations found in KSD2 under the applicable defect code listed above.