

**SUBJECT****Service Engine Soon Light (MIL) "On" with Lean Mixture Faults Stored****MODEL**

F80 (M3 Sedan)

F82 (M4 Coupe)

F83 (M4 Convertible)

Produced to 2/28/2015

With the S55 engine

SITUATION

The Service Engine Soon light comes on with either or both of the following faults stored in the DME memory:

- 118001 - Mixture control: Fuel-air mixture too lean
- 118101 - Mixture control 2: Fuel-air mixture too lean

Engine operation and performance are not affected.

CAUSE

The DME fuel-air mixture diagnosis is too sensitive to slight engine manufacturing tolerances.

CORRECTION

Perform diagnosis with the latest version of ISTA.

Correct any mechanical problems, if found, and program the vehicle using the latest version of ISTA/P.

Target integration (new): **F020-15-03-501** 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.

WARRANTY INFORMATION

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

This repair is also covered by the terms of the Federal and/or State-specific Emissions Warranty that applies to the BMW model(s) listed. This coverage is dependent on the vehicle's model year, state of registration, and its inclusion in the "model-specific" list of covered components.

The BMW Certified Pre-Owned Limited Warranty applies to BMW vehicles that have and are still within the BMW Certified Pre-Owned coverage period, but beyond Emissions Warranty coverage that applies.

Defect Code:	10 42 31 59 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 KSD2 as Charging battery)
And, as necessary:		
61 00 006	Work time (WT)	Performing vehicle diagnosis – test module
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.

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 an explanation in the comment section.

Vehicle Programming and Encoding

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.

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.