



SERVICE ENGINE SOON (MIL) - SME FC 21F20D

MODEL

F15 PHEV (X5xDrive40e)

SITUATION

Malfunction Indicator Lamp (MIL) is illuminated.

The following codes may be stored in the fault memory of the battery management electronics (SME).

- 21F20D - SME, safety concept: Switch-off of switch contactors by safety circuit
- 21F1F6 - High-voltage battery, switch contactors: Switch-off after a fault

CAUSE

Software bug: erroneous fault code stored in SME.

CORRECTION

Verify that there are no other reasons for faults and then reprogram.

PROCEDURE

For conditions that are similar to situation described:

1. Diagnose with ISTA.

Check fault codes stored in the SME.

Were fault codes 21F20D and 21F1F6 stored in the fault memory?

YES- continue to next step.

NO- continue diagnosis with ISTA.

2. Check for other faults.

Were there any other faults stored that would be the reason for the deactivation of the main switch (code 21F1F6)?

YES- diagnosis those faults with ISTA.

NO – continue to next step.

3. Check current I-Level.

Is the current I-Level 16-03-502 or below?

YES- code **21F20D** was an erroneous fault. Program with ISTA/P version 3.59.2 (I-level 16-07-503) or above.

NO - continue diagnosis with ISTA.

WARRANTY INFORMATION

Covered under the terms of the BMW New Vehicle Limited Warranty for Passenger Cars and Light Trucks or the BMW Certified Pre-Owned Program.

Defect Code:	61 27 04 02 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)

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) allowances.

Work time labor operation code 61 00 006 is not considered a Main labor operation; however, it does require an individual punch time and an explanation on the repair order and in the claim comments.

Vehicle Programming and Coding

Control module failures that occur during programming:

- Please claim these consequential repairs under the defect code listed in this bulletin and use the applicable KSD2 labor operations.

Other Repairs

Control module failures that occur prior to programming and/or additional work is performed as a result of performing the ISTA diagnostics and related test plans:

- When covered under an applicable limited warranty, claim these repairs using the applicable defect code and labor operations in KSD2.

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