



SME FAULT CODE 21F04B

MODEL

F15 PHEV (X5 xDrive40e)	F30 PHEV (330e iPerformance)	
G30 PHEV (530e iPerformance)	G12 PHEV (740e xDrive iPerformance)	

SITUATION

One or several of the following check control messages (CCM) may be displayed:

- "Engine fault! Power loss" (CCM-ID: 29)
- "Powertrain malfunction!" (CCM-ID: 633)
- "Hybrid system malfunctioning!" (CCM-ID: 585)



Note: The fault code 21F04B stated below may also be entered without any of the above

mentioned CC messages being displayed

CAUSE

A timing problem between the SME and the cell supervision circuit (CSC).

CORRECTION

Delete the fault memory and then reassess the vehicle.

PROCEDURE

For conditions that are similar to the situation described:



Note: Always connect a BMW approved battery charger/power supply ([SI B04 23 10](#)).

1. Use ISTA to check for the following codes in the battery management electronics (SME) fault memory.
 - 21F04B - High-voltage battery unit: Internal CAN bus between SME and cell supervision circuit, communication fault.



Note: The following fault code may also be entered in the fault memory of the SME:

- 21F1F6 - High-voltage battery, switch contactors: Switch-off after a fault.
2. Check if fault code 21F04B is stored in the SME, but NOT currently present,

OR:

If NO further fault codes regarding cell voltage plausibility are entered.

Are any of the above conditions present?

YES- ignore this erroneous fault code. Delete the fault memory and then reassess the vehicle

NO – go to step 3

3. Check if the fault code 21F04B is entered in the SME and is currently present

OR:

If other fault codes regarding the cell voltage plausibility are entered:

Are any of the above conditions present?

YES- follow the instruction from the diagnosis

NO – ignore this erroneous fault code. Delete the fault memory and then reassess the vehicle



NOTE: diagnostic software improvements to change FC 21F04B setting strategy will be introduced in

the future ISTA version

WARRANTY INFORMATION

This service information bulletin provides technical, diagnostic and/or repair-related information.

Eligible and Covered Work/Repairs

To submit a claim for a repair with a verified defect in materials or workmanship, including diagnosis, please following the established and applicable warranty policy and procedures together with the using corresponding defect code and labor operations provided in the KSD2.

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