



DME FC 21A022D – COMBUSTION CONTROL: VALVE LIFT AT IDLE

MODEL

F22 (2 Series Coupe)	F23 (2 Series Convertible)	F30 (3 Series Sedan)	F31 (3 Series Sports Wagon)
F32 (4 Series Coupe)	F33 (4 Series Convertible)	F34 (4 Series Gran Turismo)	F36 (4 Series Gran Coupe)
G01 (X3)	G12 (7 Series Sedan)	G30 (5 Series Sedan)	G32 (6 Series Gran Turismo)

All with B46, B58 and XB1H engines.

SITUATION

The vehicle will run rough or hesitate when accelerating from a stationary position and the following fault code is stored in DME fault memory.

- FC 21A02D – Combustion control: valve lift correction when at idle

CAUSE

A software error in the Digital Motor Electronics (DME).

CORRECTION

Update the vehicle software using ISTA 4.

PROCEDURE

1. If other faults are stored in the vehicle then perform the applicable test plans for those faults first and repair the vehicle as recommended. Do not replace any parts to specifically address DME FC 21A02D – Combustion control: valve lift correction when at idle.
2. If no other faults are stored in the vehicle or the other faults have already been rectified then go to step 3.
3. Program the vehicle using ISTA 4.10.20 or higher to integration level 18-03-520 or higher.

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:	1042315900	

Labor Operation:	Labor Allowance:	Description:
00 00 006	Refer to KSD2	Performing "vehicle test" (with vehicle diagnosis system – checking faults) (Main work)
Or:		
00 00 556	Refer to KSD2	Performing "vehicle test" (with vehicle diagnosis system – checking faults) (Plus work)
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)

If you are using a Main labor code for another repair, use the Plus code labor operation 00 00 556 instead of 00 00 006.

Refer to KSD2/AIR for the corresponding flat rate unit (FRU) allowances.

During the same workshop visit, if a vehicle also requires another Technical Campaign or repair that also includes programming and encoding the control units, the programming procedure may only be invoiced one time.

Vehicle Programming and Encoding

- A. The programming procedure automatically reprograms and encodes all vehicle control modules which do not have the latest software i-level. If one or more control module failures occur "during" this programming procedure:

- Please claim this "consequential" control module-related repair work under the defect code listed in this bulletin with the applicable KSD2/AIR labor operations.

Please explain this additional work (The why and what) on the repair order in the claim comments section.

- B. For control module failures that occurred "prior" to performing this programming procedure:

- When "covered" under an applicable limited warranty, claim this control module-related repair work using the applicable defect code and labor operations (including diagnosis) in KSD2/AIR.

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