



## SIB 12 13 18

2019-08-19

### DME FC 21A02D – COMBUSTION CONTROL: VALVE LIFT AT IDLE

This Service Information Bulletin (Revision #2) replaces SI B12 13 18 **dated May 2018**.

#### What's New (Specific text highlighted):

- Correction software level updated
- Procedure text changes made due to an ISTA/D test plan name change
- Adjusted text in the Warranty section for use with AIR and the ISTA/D test plan name change

## MODEL

E-Series	Model Description
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
F36	4 Series Gran Coupe
G01	X3 Sports Activity Vehicle
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 4.10.20 or higher.

## 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.

4. When the vehicle programming is complete the “Reset Valvetronic list adaption” and “Learning Valvetronic limit positions” test plans must be performed using the following paths in ISTA/D:

**Both of these test plans must be completed after programming or the fault will return.**

### **Perform the Reset Valvetronic Lift Adaptation Test Plan**

Select “Vehicle management”  
 Select “Service functions”  
 Select “Powertrain”  
 Select “Engine electronics”  
 Select “Reset Adaptations” Run ABL  
 Select “Reset Valvetronic lift adaptation” and follow the prompts on the screen to clear the Valvetronic adaptations.

### **Perform the Valvetronic Lift Adaptation Test Plan**

Select “Vehicle management”  
 Select “Service functions”  
 Select “Powertrain”  
 Select “Engine electronics”  
 Select “Adjustment programs”  
 Select “Valvetronic lift adaptation” and follow the prompts on the screen to calibrate the Valvetronic system.

## **WARRANTY INFORMATION**

Covered under the terms of the BMW New Vehicle Limited Warranty for Passenger Cars and Light Trucks.

<b>Defect Code:</b>	<b>1042315900</b>		
<b>Labor Operation:</b>	<b>Labor Allowance:</b>	<b>Description:</b>	
00 00 006	Refer to AIR	Performing vehicle test (with vehicle diagnosis system – checking faults) (Main work)	
Or:			
00 00 556	Refer to AIR	Performing vehicle test (with vehicle diagnosis system – checking faults) (Plus work)	
And:			
61 21 528	Refer to AIR	Connect an approved battery charger/power supply (indicated in AIR as Charging battery)	
And:			
61 00 730	Refer to AIR	Programming/encoding control unit(s)	
And:			
11 99 000	6 FRU	Work time for performing Reset Valvetronic lift adaptations and Valvetronic lift adaptation test plans	

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 AIR for the corresponding flat rate unit (FRU) allowances.

Work time labor operation code 11 99 000 is not considered a Main labor operation. Also, since the “work time” FRU allowance to be claimed is specified, a separate punch time is not required. However, it still requires an explanation on the repair order and in the claim comments section.

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.**

### **Programming and Encoding - Vehicle Control Units (RO and Claim Comments Required)**

**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 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 AIR.