



## CCM: "START/STOP FAILED": LOSS OF POWER

### MODEL

F15 PHEV (X5 xDr40e)	
Produced from 7/31/15 to 11/02/16	

### SITUATION

Malfunction Indicator Lamp (MIL) is illuminated

Check Control Message (CCM) states "Auto Start/Stop function failed"

One or more of the following codes may be stored in the DME fault memory'

- 120408: "Charging pressure control: switching off as a subsequent reaction"
- 130F20: "Exhaust camshaft: angular offset to crankshaft outside of tolerance"
- 130E20: "Intake camshaft: angular offset to crankshaft outside of tolerance"
- 164040: "Intake camshaft: Installation faulty"
- 164041: "Exhaust camshaft: Installation faulty"

### CAUSE

Incorrect camshafts timing position (in reference to crankshaft).

Combustions occurring just as engine is stopping, drive the engine backwards, dragging the belt drive and toothed belt starter motor backwards. High-inertia torque loading on the camshaft sprockets and crankshaft at this point causes slippage, unintentionally adjusting the timing.

### CORRECTION

Adjust engine timing and recode and reprogram the vehicle.

### PROCEDURE

For conditions that are similar to the situation described:

1. Run diagnosis with ISTA/D and work through the corresponding test module.

**Are any of the fault codes, specified above, stored in the DME fault memory?**

**YES-** adjust the engine timing as per REP 11 36 046" Removing and installing or replacing intake and exhaust camshaft adjusters (N20)" then go to step 2.

**NO** – continue troubleshooting with ISTA.

2. Program and encode the complete vehicle using ISTA/P 3.60.2 (or ISTA NEXT 4.02.30) to integration level F025-16-11-503 or higher.

Note that ISTA/P will automatically reprogram and code all programmable control modules that do not have the latest software. For information on programming and coding with ISTA/P, refer to CenterNet / Aftersales Portal / Service / Workshop Technology / Vehicle Programming.

**Always connect a BMW approved battery charger / power supply (SI B04 23 10).**

A part exchange is not necessary and does not provide a solution.

## WARRANTY INFORMATION

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

<b>Defect Code:</b>	<b>10 42 31 59 00</b>	
<b>Labor Operation:</b>	<b>Labor Allowance:</b>	<b>Description:</b>
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 KSD 2 as Charging battery)
And:		
61 00 730	Refer to KSD2	Programming/encoding control unit(s)
And,		
11 31 508	Refer to KSD2	Check timing of the

		camshaft(s)
And,		
11 31 505	Refer to KSD2	Adjusting camshaft timing

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.

And, if needed:

### Sublet – Bulk Materials

<b>Sublet Code 4</b>	See sublet reimbursement calculation below	Reimbursement for the repair-related bulk materials (BMW part number(s), please do not use the part numbers for claim submission)
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Sublet reimbursement calculation for claiming the “used quantities” of repair-related bulk materials (BMW part numbers) is at dealer net plus your center’s handling.

Enter this material cost in sublet and itemize the amount on the repair order and in claim comment section.

### Vehicle Programming and Coding

When ISTA/P automatically reprograms and codes all the vehicle’s control modules that currently do not have the latest software and if 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 labor operations.

### Other Repairs

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 in KSD2.

### Overlapping Labor – Other Repairs

If invoicing KSD2 flat rate labor operation codes for other repair work results in overlapping labor, invoice work time (WT) labor operation 00 50 000 instead for the additional labor time needed (FRUs minus the overlapping labor).

Work time labor operation code 00 50 000 is not considered a Main labor operation.

Eligible other repair work that will be claimed under a difference defect code using this labor operation requires a separate punch time.

On the repair order and in the claim comment section, please identify the labor operations labor operation code(s) "00 50 000" replaces and itemize the claimed FRU amount.

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