

**MODEL**

E-Series	Model Description	Production Date	Engine
F39	X2 sDrive28i, X2 xDrive28i Sports Activity Coupe	SOP - November 9, 2019	B46D
F39	X2 M35i SAC	SOP - November 9, 2019	B48E
F44	228i xDrive Gran Coupe	SOP - November 9, 2019	B46D
F44	M235i xDrive Gran Coupe	SOP - November 9, 2019	B48E
F48	X1 sDrive28i, X1 xDrive28i Sports Activity Vehicle	SOP - November 9, 2019	B46D

SITUATION

After engine start, the malfunction indicator lamp (MIL) and Check Control message (ID 29) "Engine fault! Power loss" are displayed in the instrument cluster.

In addition,

- The following fault codes are stored in the Digital Motor Electronics (DME)
- Engine runs in failsafe mode
- Engine cannot exceed 800 - 1,200 RPMs

Fault code	Control module	Fault code text
10170C	DME	Throttle valve, function: Jammed briefly
And/or:		
100213	DME	Throttle valve, function: Sluggish, too slow

Note: The complaint occurs when the vehicle has been left in ambient temperatures of 23°F or below for an extended period.

CAUSE

Certain unfavorable ambient conditions in combination with a specific driving profile may cause condensation to form at the throttle valve. The valve can thereby freeze when the vehicle sits for a long period of time at low outside temperatures.

As a result, after a cold engine start the throttle valve cannot open at all, or only with difficulty.

Note: The closing function of the throttle valve is not impaired in any way.

CORRECTION

Program the vehicle.

PROCEDURE

In the event of a vehicle arrives at your center with the SITUATION described above, proceed as follows:

Perform diagnosis with ISTA.

If the diagnosis carried out in the warm workshop-

- Does not identify any "real" fault
- Complaint occurred during the engine start
- Vehicle had been at a standstill for an extended period at low outside temperatures

The cause of the complaint was most likely a frozen throttle valve.

Check the fault code details of 10170C and/or 100213, If the ambient conditions are as follows, a frozen solid throttle valve may be assumed:

Ambient temperature	Coolant temperature	Driving speed
≤ 41 °F (5°C)	≤ 140 °F (60°C)	≤ 3 mph (5 km/h)

To rectify the situation, program the vehicle with ISTA 4.20.2 (supports I-level 19-11-530, released mid-November 2019) or higher.

Note: An optimized DME application is available which activates the throttle valve with increased power several times during an engine start at low ambient temperatures (icebreaker / breakaway function).

WARRANTY INFORMATION

During this workshop visit, the affected vehicle may also show one or more programming and encoding Technical Campaign repairs open, the programming and encoding procedure may only be invoiced one time.

Update the vehicle to the required I-level or higher by performing and submitting for one of the open Technical Campaigns instead. Please be sure to also perform any additional work (before and/or after) the campaign repairs require and/or close the remaining open programming and encoding Technical Campaign repairs as outlined in the corresponding Service Information Bulletin.

Only if the above situation does not apply, the BMW software solution is then:

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

This repair is also covered by the terms State-specific Emissions Warranty (dependent on the vehicle's model year, state of registration and its inclusion on the model-specific list of covered components).

Afterwards, it is then covered under the terms of any active and remaining BMW Certified Pre-Owned Program coverage that applies to the BMW vehicle.

Defect Code:	1354073400	E-gas sluggish
Labor Operation	Description	Labor Allowance
00 00 006	Performing vehicle test (with vehicle diagnosis system – checking faults) (Main work)	Refer to AIR
Or:		
00 00 556	Performing vehicle test (with vehicle diagnosis system – checking faults) (Plus work)	Refer to AIR
And:		
61 21 528	Connect an approved battery charger/power supply (indicated in AIR as Charging battery)	Refer to AIR
And:		
61 00 730	Programming/encoding control unit(s)	Refer to AIR

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.

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

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 (including performing the IRAP Control Unit Recovery procedure first as required, refer to the SIB in AIR) 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 and in the claim comments section

For control module failures that occurred prior to performing this programming procedure:

- When covered under an applicable limited warranty, claim the applicable test plan and the corresponding control module-related repair work using the applicable defect code and labor operations in AIR (including diagnosis with separate punch times).

Other Repairs

If other eligible and covered work is performed as a result of performing the ISTA diagnostics and related test plans, claim this work with the applicable defect code and the labor operations that are listed in AIR (including diagnosis with separate punch times).

