



SIB 16 03 19

2020-07-06

NOISES FROM THE FUEL TANK AT IDLE

This Service Information Bulletin (Revision 1) replaces SI B16 03 19 **dated April 2019**

What's New (Specific text highlighted):

- SIB title modified
- F48 (X1) added
- Situation, Procedure and Warranty sections updated

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 (3 Series Gran Turismo)	F36 (4 Series Gran Coupe)
F48 (X1 Sports Activity Vehicle)			

All with B46 or B48 Engines.

SITUATION

All vehicles except the F48 (X1):

While driving slowly with low RPM or while idling a faint knocking or fluttering noise can be heard from inside the fuel tank with a low fuel level (approximately less than 2 gallons). The customer may describe this noise as a "helicopter noise" from the rear of the vehicle.

F48 (X1) only:

While driving slowly with low RPM or while idling a faint knocking or fluttering noise can be heard from inside the fuel tank when the tank is full. The customer may describe this noise as a "helicopter noise" from the rear of the vehicle.

CAUSE

Pressure fluctuations from the tank ventilation valve will cause the fuel tank filler pipe non-return valve to vibrate. In some cases, the vibration can be heard inside the vehicle.

PROCEDURE

1. Duplicate the customer complaint.

Release the fuel cap while the noise is occurring. Is the noise eliminated by removing the fuel cap?

Yes - Go to step 2.

No - Go to step 3.

2. All vehicles except the F48 (X1):

Check the integration level of the vehicle, if it is not already F020-19-03-540 or higher, then reprogram the vehicle with ISTA 4.17.1X (released late April 2019) or higher.

F48 (X1) only:

Check the integration level of the vehicle, if it is not already F056-20-03-540 or higher, then reprogram the vehicle with ISTA 4.23.1X (released early May 2020) or higher.

Always connect a BMW-approved battery charger/power supply (SI [B04 23 10](#)) when performing programming.

3. If the noise continues with the fuel cap removed, the noise may be related to the fuel pump itself. Continue troubleshooting to isolate the root cause and repair the vehicle as needed.

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:	1613003900	Venting line/connections (fuel tank to carbon canister) disruptive noises
:		
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

And, additionally for the:

e-Vehicles-

Labor Operation	Description	Labor Allowance
61 25 910	Recharging high-voltage battery unit (to high voltage charging socket)	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).

Other Repairs

If other eligible and covered work is performed as a result of performing the diagnostic procedures, claim this work with the applicable defect code and the labor operations that are listed in AIR (including diagnosis).