



## NOISES FROM THE FUEL TANK AT IDLE AND WITH LOW FUEL LEVEL

### 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)

All with the B46O and B58M engines.

### SITUATION

While driving slowly with low RPM or while idling, a faint knocking or fluttering noise can be heard from inside the fuel tank. 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 filler cap while the noise is occurring (engine running). Is the noise eliminated by removing the fuel cap?

Yes - Go to step 2.

No - Go to step 3.

2. Reprogram the vehicle with ISTA 4.17.1X or higher.

- The target integration level will be F020-19-03-540 or higher
- 4.17.1x available late April 2019
- Always connect a BMW-approved battery charger/power supply ([SI B04 23 10](#)).
- For information on programming and coding with ISTA, refer to CenterNet / TIS / Technical Documentation / Programming and Diagnostics / Programming Documentation

3. If the noise continues with the fuel cap removed, then 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.

<b>Defect Code:</b>	<b>16 13 00 39 00</b>	<b>Venting line/connections (fuel tank to carbon canister) Disruptive noises</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)
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)

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.

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

- 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 and 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.

### Other Repairs

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

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