



SIB 64 06 20

2020-12-01

FIZZING / GURGLING NOISES FROM CENTER VENT IN DASHBOARD

## MODEL

E-Series	Model Description
F44	2 Series Gran Coupe

## SITUATION

The Air Conditioning system is cooling the vehicle interior. The customer hears a fizzing / gurgling noise coming from the center ventilation grille in the vehicle interior.

The noise can be reproduced under the following conditions:

- Allow the engine to run in idle
- Radio turned off
- Air conditioning active
- Blower speed 1-2 selected

## CAUSE

Gas bubbles in the air conditioning refrigerant circuit are heard as they pass thru the expansion valve.

Uncondensed refrigerant (gas bubbles) can occur due to excessively low operating pressure in the air conditioning system (i.e., too little refrigerant).

## CORRECTION

- Wrap the expansion valve piping in butyl tape
- Refill refrigerant

## PROCEDURE

Check A/C system operation.

- **If the A/C system is not operational or does not function properly due to other issues then this SIB does not apply.** Check for leaks and repair if and as necessary.
- **If the A/C system is operational** then connect A/C service station.  
Draw off (evacuate) refrigerant completely.
- If system is slightly low top up to 540 grams (+/- 20 grams)
- If system is very low proceed with air conditioning system leak diagnosis/repair prior to refilling

Then reassess the noise.

- **If the noise can no longer be reproduced**, then the vehicle can be returned to the customer
- **If the noise is still present**, proceed as follows.
- Remove the evaporator

Observe the repair instructions when removing the evaporator-

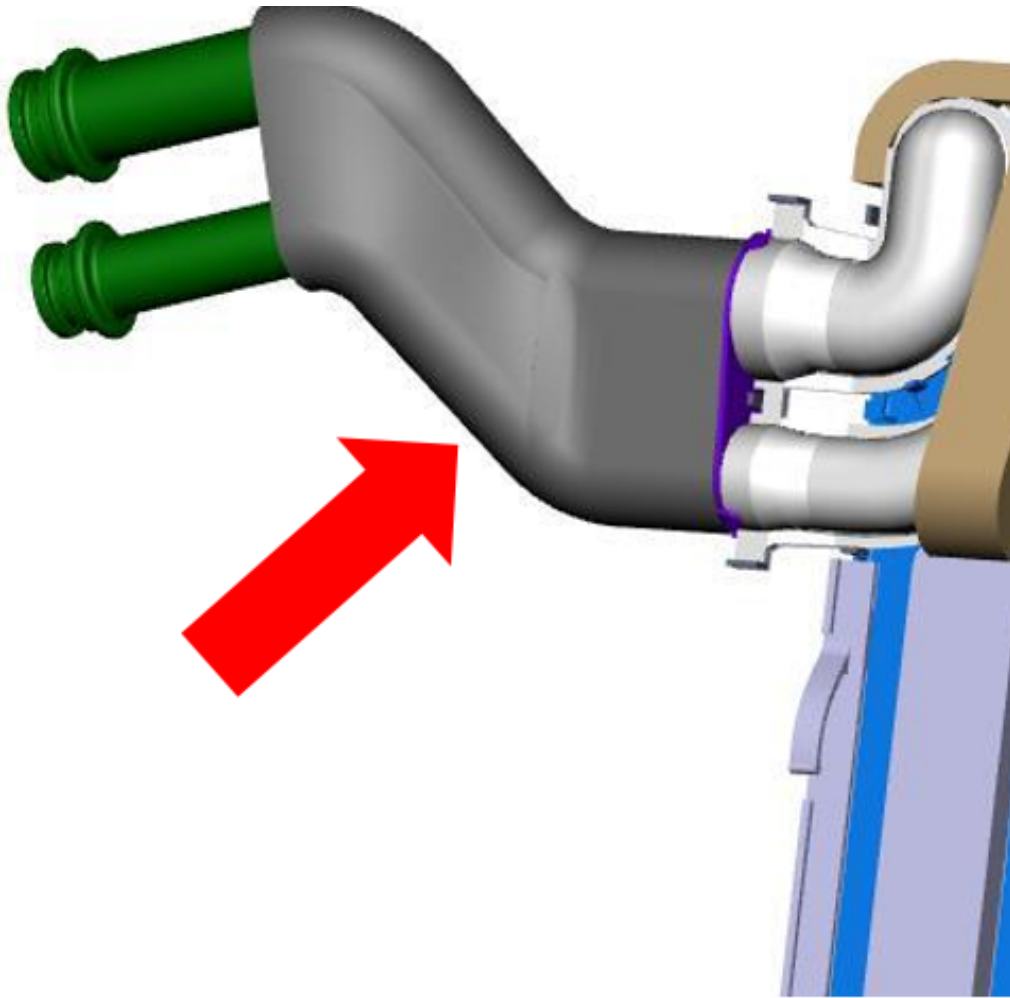
REP 64 11 197 Remove and install heating and air-conditioning unit

REP 64 51 591 Remove and install/replace evaporator (heating and air-conditioning unit removed)

- Wrap butyl tape fully around both evaporator pipes.
- Cut the butyl into 30-40 mm sections and leave the backing paper on when you wrap the pipes



- Wrap into a figure 8 pattern, pushing between the pipes so the butyl sticks to itself and fully surrounds each pipe while making sure to overlap the butyl.
- Then remove the paper backing as you complete one wrap around both pipes
- This may require **up to 2.5 meters** of butyl



Then reassess the noise.

## PARTS INFORMATION

Obtain and confirm the part numbers for your specific vehicle by entering the chassis number in either ETK or AIR which takes into account specific equipment and/or options.

Part Number	Description	Quantity
83 19 0 153 321	butyl tape (15x1,5 mm x 10 m, 20 g roll) <b>One 10-meter long roll will repair 4 vehicles</b>	Sublet as needed
83 19 2 468 442	BMW HT-12 Antifreeze Coolant (1 gal)	Sublet as needed
83 19 2 446 563	Refrigerant R1234yf (1 oz)	Sublet if/as needed

## WARRANTY INFORMATION

### Check the AC system and Refill refrigerant

- Leak (Seals, hoses/pipes and/or components)
- Incorrectly filled after a prior mechanical repair and/or collision-related work (non-warranty)
- Slight and increasing refringent loss over the long-term (non-warranty)

Based which of the above applies, if eligible and covered work is performed after diagnosis, claim this work with the applicable defect code and the labor operations that are listed in AIR (including diagnosis)

And/or:

### Wrapping Expansion Valve Piping with Butyl Tape

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

Defect Code:	6451123900	Expansion valve unpleasant noises
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Labor Operation	Description	Labor Allowance
64 11 197	Removing and installing heating and air-conditioning unit (Includes removing and installing instrument panel trim and extract, evacuate and fill air conditioning system) (Main work)	Refer to AIR
Or:		
64 11 697	Removing and installing heating and air-conditioning unit (Includes removing and installing instrument panel trim and extract, evacuate and fill air conditioning system) (Plus work – Vehicle is already in the workshop)	Refer to AIR
And:		
64 99 000	Diagnosis work time (WT) to verify the noise is still present (A/C system is refrigerant level is correct) (Vehicle is in the workshop, prior to heating and air-conditioning unit removal)	WT
And:		
64 51 591	Removing and installing/renewing evaporator (with empty housing) (heating and air-conditioning unit removed)	Refer to AIR
And:		
64 99 000	Job/repair time (WT) to install butyl tape	3 FRU

If you are using a Main labor code for another repair, use the Plus code labor operation 64 11 697 instead of 64 11 197.

**Note:** Only claim labor operation 64 99 000 one time for the applicable total amount of work time.

As applicable to your center, please refer to **SI B01 01 20** or **B01 07 20** for claiming your diagnosis work time, job/repair work time (WT), WT and the repair-related explanation procedures.

And, as needed:

#### **Sublet – Bulk Materials (RO and Claim Comments Required)**

<b>Sublet Code</b> <b>4</b>	See the sublet reimbursement calculations below	Reimbursement for the repair-related bulk materials (Do not use the BMW part numbers for claim submission)
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Sublet reimbursement calculation for claiming the applicable repair-related bulk materials (BMW part numbers) is at the dealer net price amount for the quantities used plus your center's handling.

BMW Antifreeze/Coolant: Claim the corresponding sublet dollar amount for the quantity needed to replace what was drained with a 50/50 coolant/water solution.

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

#### **QUESTIONS REGARDING THIS BULLETIN**

Technical inquiries	Submit feedback at the top of this bulletin
Warranty inquiries	Submit an IDS ticket to the Warranty Department or use the chat available in the Warranty Documentation Portal
Parts inquiries	Submit an IDS ticket to the Parts Department