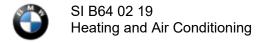
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March 2019 Technical Service

## **HUMMING NOISES WHEN AIR CONDITIONING IS ACTIVATED**

### **MODEL**

ll `	F16 (X6 sDrive 35i, xDrive35i Sports Activity Coupe)
Vehicle)	Coupe)

#### **SITUATION**

Humming, or high-pitched vibrating noises can be heard inside the vehicle when the air conditioning (A/C) is switched on.

Only applies to vehicles with the N55 engine.

## **CAUSE**

Pulsations in the refrigerant line between the evaporator and the A/C compressor.

#### **PROCEDURE**



Warning: Only technicians who have completed and passed training on the R1234yf

recovery/recycling machine as well as on BMW A/C systems are authorized to carry out repair work on the refrigerant circuit.

- 1. Refer to Repair Instructions 64 52... "Instructions for opening and part exchange in refrigerant circuit"
  - Use the Robinair R1234yf A/C recovery/recycling machine. Refer to Repair Instructions 64 50 010 "Suctioning, evacuating and filling heating and air conditioning system (R1234yf)"



Attention: Refer to Repair Instructions "REP-REP-RAI0164-6450HINW\_BMW\_I Safety instructions for

handling refrigerant R1234"

- 2. Replace the original refrigerant line with the new line (P/N 64 50 6 833 626).
- 3. Confirm normal A/C operation and the elimination of the humming noise.



Note: A/C compressor replacement will not provide a solution to this situation.

# SPECIAL TOOL AND/OR EQUIPMENT INFORMATION

For reference only

Special tool P/N per AIR Description Full P/N
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	Robinair R1234yf A/C recovery/recycling machine.	Refer to <u>B04 02 16</u>
00 9 030	O-ring Removal Tool	83 30 0 496 714
32 1 270	Plug set for hydraulic lines	83 30 0 494 179

## **PARTS INFORMATION**

Part Number	Description   Quantity	
64 50 6 833 626	A/C line "suction pipe evaporator-compressor"	1
83 19 2 446 563	Refrigerant R1234yf (1 oz unit)	Qty as needed

## **WARRANTY INFORMATION**

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

Defect Code:	6453003900	Refrigerant line, air conditioning disruptive noises
Labor Operation:	Labor Allowance:	Description:
64 50 010	Refer to KSD2	Extract, evacuate and fill air conditioning system (Main work)
Or:		
64 50 510	Refer to KSD2	Extract, evacuate and fill air conditioning system (Plus work)
And:		
64 53 651	Refer to KSD2	Replacing wire from the air conditioning compressor to the evaporator (without extract, evacuate and fill)

If you are using a Main labor code for another repair, use the Plus code labor operation 64 50 510 instead of 64 50 010

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