

May 2015 Technical Service

This Service Information bulletin supersedes SI B64 06 13 dated August 2014.

NEW designates changes to this revision

#### **SUBJECT** A/C Cooling: Intermittent Reduction of Air Flow

MODEL F30 (3 Series Sedan)

F31 (3 Series Sports Wagon)

F32 (4 Series Coupe)

F34 (3 Series GranTurismo)

Produced from July 4, 2012 to September 2, 2013

## SITUATION

The customer may complain of reduced air flow when the air conditioning system is operated for an extended time, usually longer than one hour.

The complaint can vary due to one or more of the following variables:

- High outside ambient temperature
- Too much humidity
- A/C temperature and fan settings set too low for too long

Note: It is very difficult to duplicate this issue due the required outdoor weather conditions and length of driving time needed.

### CAUSE

Evaporator starts to freeze up due to the position of the evaporator temperature sensor

### PROCEDURE

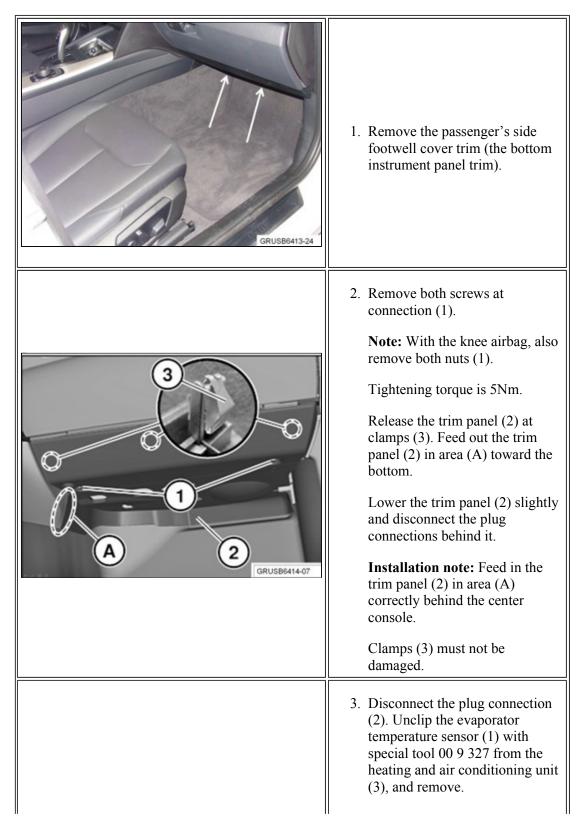
Install a new evaporator temperature sensor adapter.

The fault can be reproduced under the following conditions:

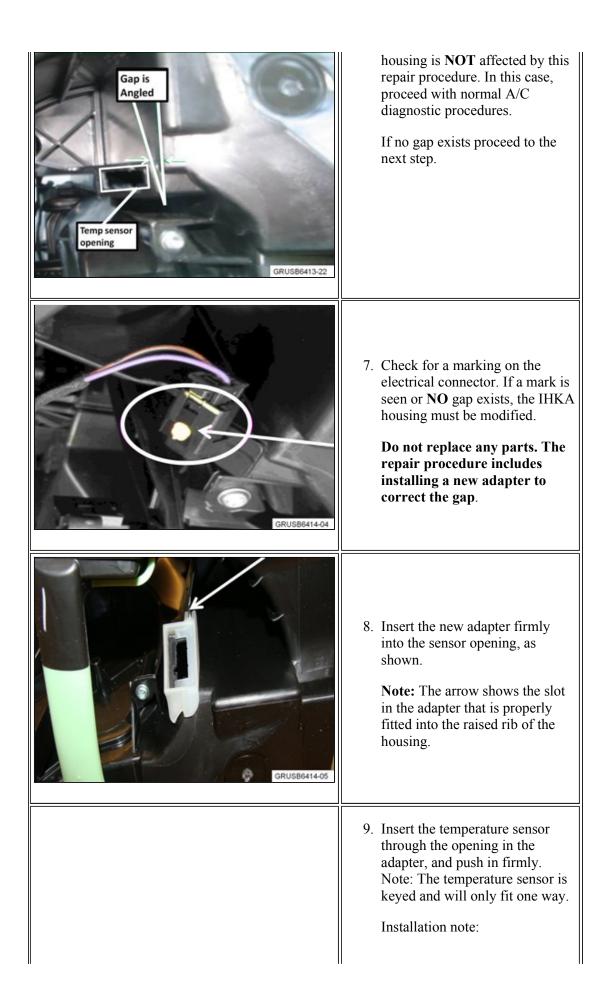
- · Air-conditioning system switched on
- Driving Experience switch NOT set to Eco Pro
- Mainly at lower fan speeds
- Temperature setting below 68°F (20°C)
- Trip duration at least 30 minutes
- Outside temperature above 68°F (20°C)

After parking the vehicle or switching off the air-conditioning system for at least 20 minutes, the symptom disappears. However, this can occur again if the air-conditioning system is reactivated and a longer drive lasting at least 30 minutes takes place.

Note: After stopping/parking the car or turning off the A/C, the ice will begin to melt off the evaporator and create a puddle under the car from the A/C drains. After the ice melts, normal A/C operation will be restored.



00 9 327 GRUSB6414-17	Installation note: Ensure the evaporator temperature sensor (2) is correctly seated.
GRUSB6414-18	4. The IHKA housing (removed for clarity) shown is viewed from the passenger's side. The circle shows the approximate location of the evaporator temperature sensor.
GRUSB6414-19	<ul> <li>5. The close-up picture shows the exact location (circle) of the sensor opening. The following steps will be performed from the lower passenger's footwell area at the bottom of the IHKA housing.</li> <li>Note: As a reference point, the evaporator temperature sensor is located just above the white ribbed rubber water drain hose, when viewed from below.</li> </ul>
	6. Locate the evaporator temperature sensor opening (sensor removed for clarity). Check the gap between the sensor opening and the evaporator case. If the sensor opening contact surface is slightly angled as shown, this





Ensure the evaporator temperature sensor is correctly seated.

Install all removed parts in the reverse order of their removal.

### PARTS INFORMATION

Part Number	Description	Quantity
64 11 9 350 495	Evaporator temperature sensor adapter	1

# NEW WARRANTY INFORMATION

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

Defect Code:	64 11 79 40 00	
Labor Operation:	Labor Allowance:	Description:
64 99 000	4 FRU	Work time to check IHKA housing and install the sensor adapter (Main work)
or		
64 99 000	2 FRU	Work time to check IHKA housing and install the sensor adapter (Plus work - vehicle already in the workshop)
and		
64 11 943	Refer to KSD2	Removing and installing evaporator temperature sensor

Since the "work time" FRU allowance is specified for labor operation 64 99 000, a separate punch time is not required.

Refer to KSD2 for the corresponding flat rate unit (FRU) allowance.

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