



This Service Information bulletin supersedes SI B64 06 13 **dated January 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 (3 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

NEW PROCEDURE

Install a new evaporator temperature sensor adapter.

The fault can be reproduced under the following conditions:

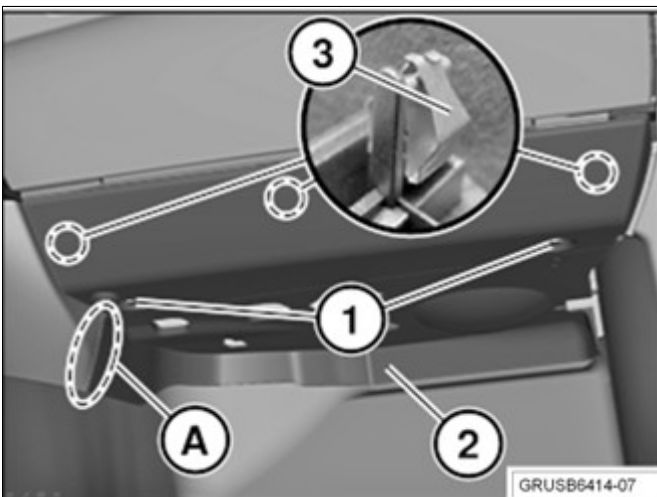
- Air-conditioning system switched on
- Driving Experience switch NOT set to Eco Pro
- Mainly at lower fan speeds
- Temperature setting below 68°F (20°C)
- Trip duration at least 30 minutes
- Outside temperature above 68°F (20°C)

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.



1. Refer to Repair Instruction 51 45 195 and remove the passenger side footwell cover trim.



2. Remove both screws at connection (1).

Note: With the knee airbag, also remove both nuts (1).

Tightening torque is 5Nm.

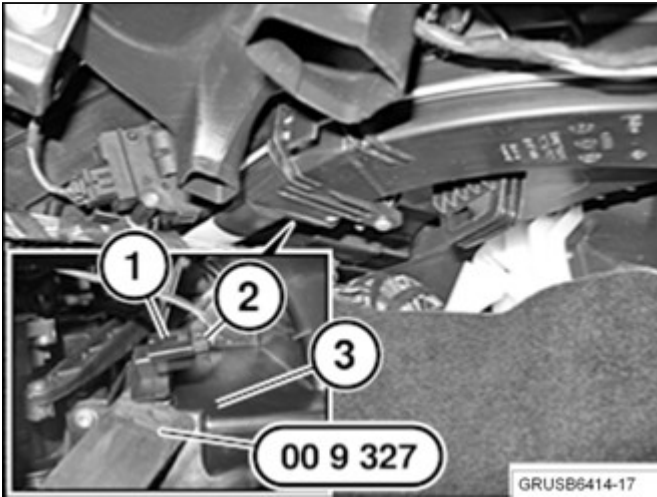
Release the trim panel (2) at clamps (3). Feed out the trim panel (2) in area (A) toward the bottom.

Lower the trim panel (2) slightly and disconnect the plug connections behind it.

Installation note:
Feed in the trim panel (2) in area (A) correctly behind the center

console.

Clamps (3) must not be damaged.



3. Disconnect the plug connection (2). Unclip the evaporator temperature sensor (1) with special tool 00 9 327 from the heating and air conditioning unit (3), and remove.

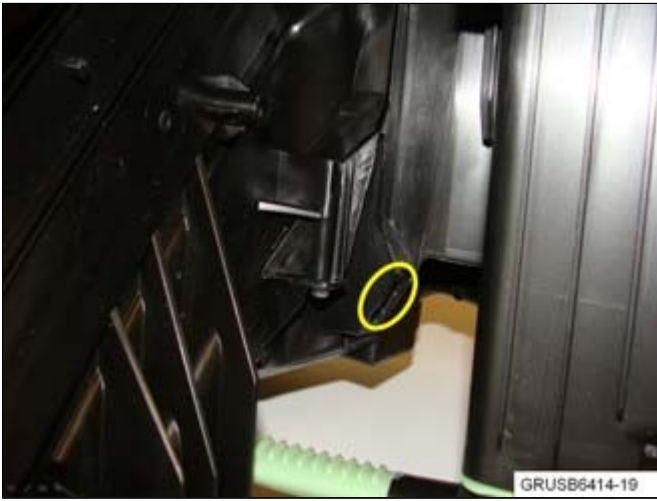
Installation note:

Ensure the evaporator temperature sensor (2) is correctly seated.

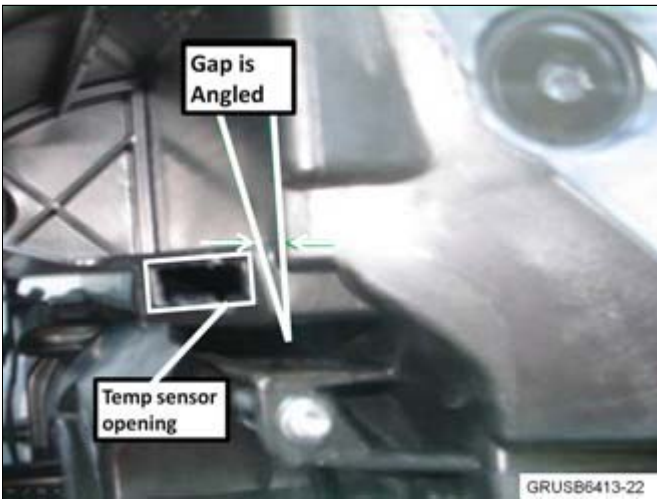


4. The IHKA housing (removed for clarity) shown is viewed from the passenger's side. The circle shows the approximate location of the evaporator temperature sensor.

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.



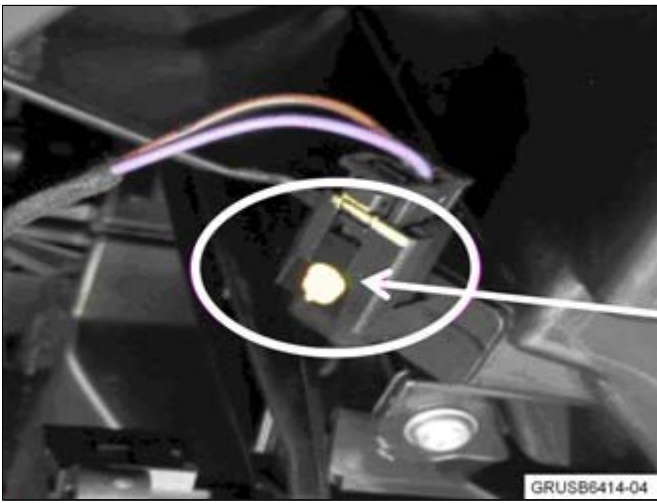
Note: As a reference point, the evaporator temperature sensor is located just above the white ribbed rubber water drain hose, when viewed from below.



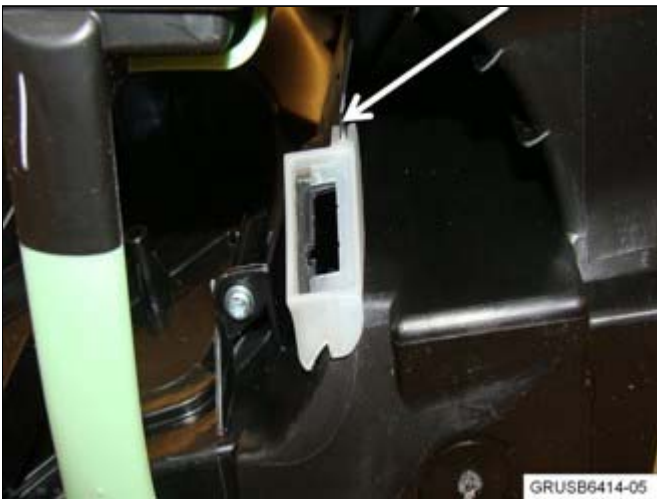
6. Locate the evaporator temperature sensor opening (sensor removed for clarity). Check the gap between the sensor opening and the evaporator case. If the sensor opening contact surface is slightly angled as shown, this housing is **NOT** affected by this repair procedure. In this case, proceed with normal A/C diagnostic procedures.

If no gap exists proceed to the next step.

7. Check for a marking on the electrical connector. If a mark is seen or **NO** gap exists, the IHKA housing must be modified.



Do not replace any parts. The repair procedure includes installing a new adapter to correct the gap.



8. Insert the new adapter firmly into the sensor opening, as shown.

Note: The arrow shows the slot in the adapter that is properly fitted into the raised rib of the housing.



9. Insert the temperature sensor through the opening in the adapter, and push in firmly. **Note:** The temperature sensor is keyed and will only fit one way.

Installation note:

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

WARRANTY INFORMATION

Covered under the terms of the BMW New Vehicle/SAV Limited Warranty.

Defect Code:	64 51 13 40 00	
Labor Operation:	Labor Allowance:	Description:
64 99 000	4 FRUs	Work time to check IHKA housing and install the sensor adapter (Main work)
or		
64 99 000	2 FRUs	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.

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