

SIB 64 06 13

A/C COOLING: INTERMITTENT REDUCTION OF AIR FLOW

2021-11-01

This Service Information Bulletin (Revision 11) supersedes SI B64 06 13 dated December 2020.

What's New:

Model F87 added

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)
F80 (M3 Sedan)	F82 (M4 Coupe)	F83 (M4 Convertible)	F87 (M2 Coupe).

Produced from July 5, 2012 thru the respective end of production.

SITUATION

Customer may complain of reduced air flow when the air conditioning system is operated for an extended time, usually longer than 30 minutes.

CAUSE

The evaporator starts to freeze up. This can have multiple causes:

- The vehicle is being driven with windows and/or sunroof open in high humidity
- System is set to fresh air instead of recirculating mode in high humidity
- Due to the position of the evaporator temperature sensor in earlier vehicles

CORRECTION

Advise the customer on some climate control system settings to reduce this from occurring by reducing the introduction of humid outside air:

- Once a comfortable interior temperature has been reached, close the windows and sunroof when driving for long periods of time in high humidity with the air conditioning system on
- If driving with the "Max AC" mode active, we recommend that the climate control system be set to the recirculation mode
- Instrument panel center vents' stratified air temperature set between middle and max cold (blue)

Additionally, these steps can be performed:

1. Install a new evaporator temperature sensor adapter (to reposition the sensor) **for vehicles produced prior to September 30, 2013**

2. Perform a conversion to raise the minimum evaporator temperature ("Activate conversion to raise the minimum evaporator temperature") using ISTA/P for vehicles produced from October 1, 2013. This will add TEMP into the vehicle order (VO).

In the rare case that the evaporator continues to experience freezing after the above countermeasures have been performed (e.g., in very high humidity areas), modify the evaporator temperature sensor input by:

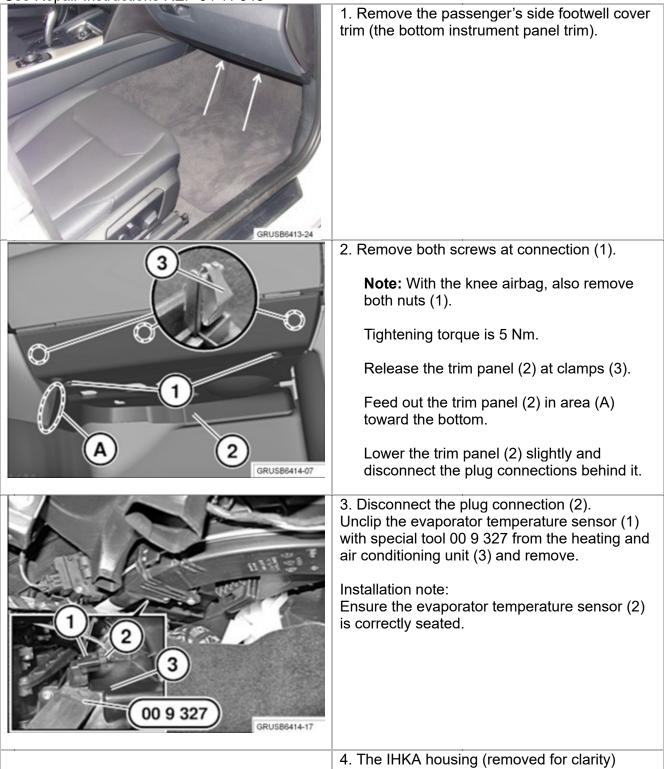
3. Installing an 800-ohm (1/4 watt) resistor in-line between the evaporator temperature sensor and the IHKA control panel (**all production dates**).

NOTE: This will 'move' the entire temperature operating range of the system up a few degrees. Advise the customer that by making this modification, the air conditioning system will no longer achieve the same maximum low temperature out of the vents as seen prior to this installation.

PROCEDURE

1. Repair procedure for vehicles produced to September 30, 2013:

Use Repair Instructions REP 64 11 943



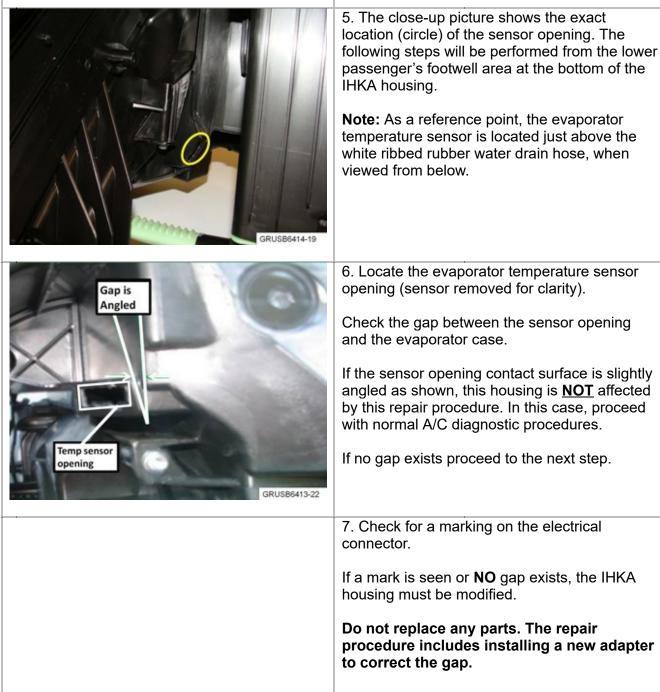
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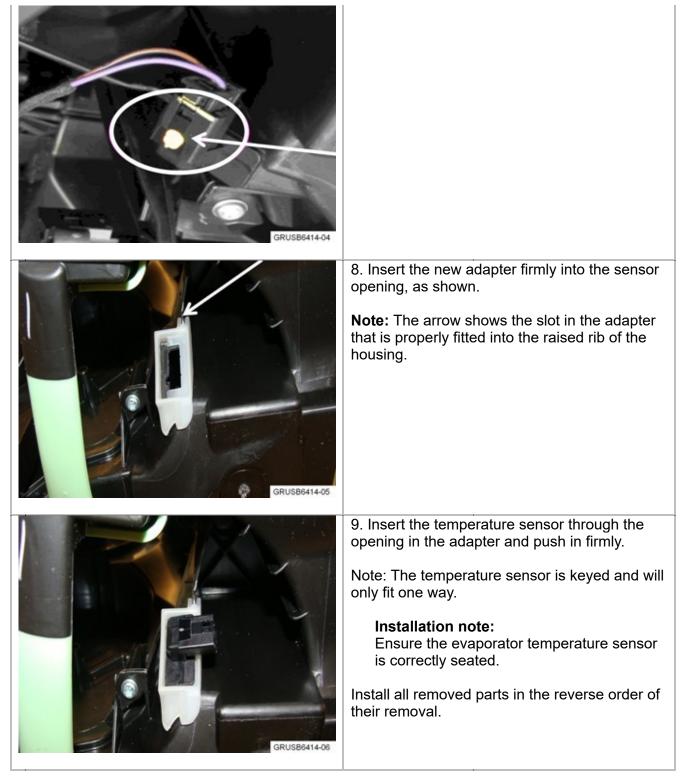
shown is viewed from the passenger's side.

The circle shows the approximate location of the evaporator temperature sensor.





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2. Repair procedure for vehicles produced from October 1, 2013:

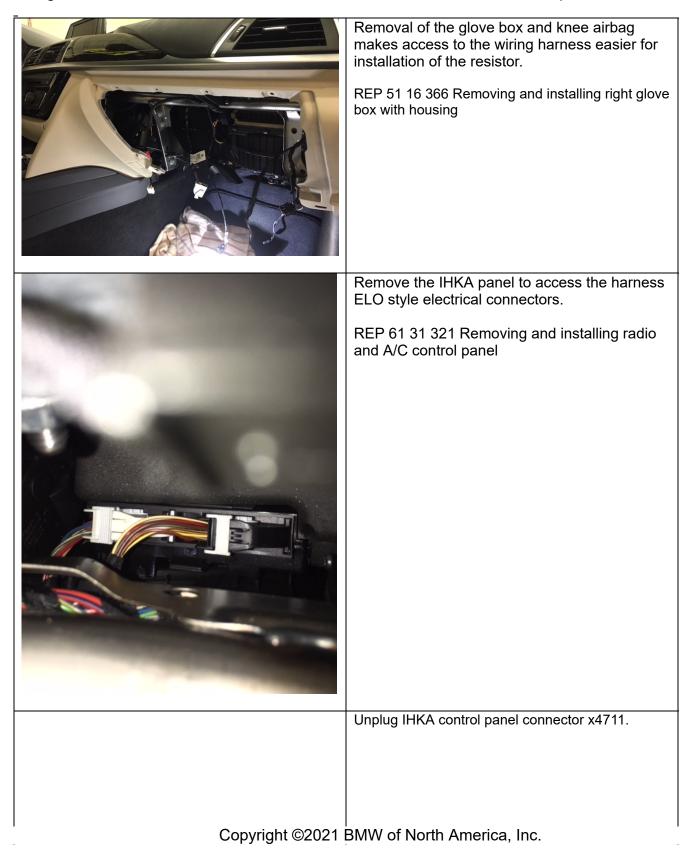
Perform a conversion in ISTA/P "Activate conversion to raise the minimum evaporator temperature".

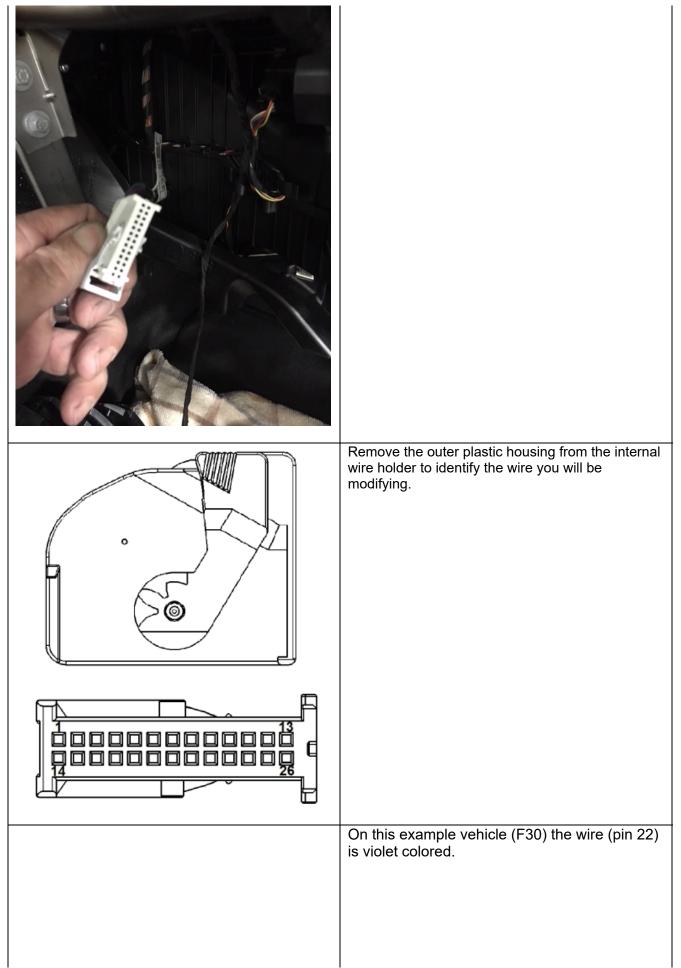
3. Additional repair procedure (all production dates):

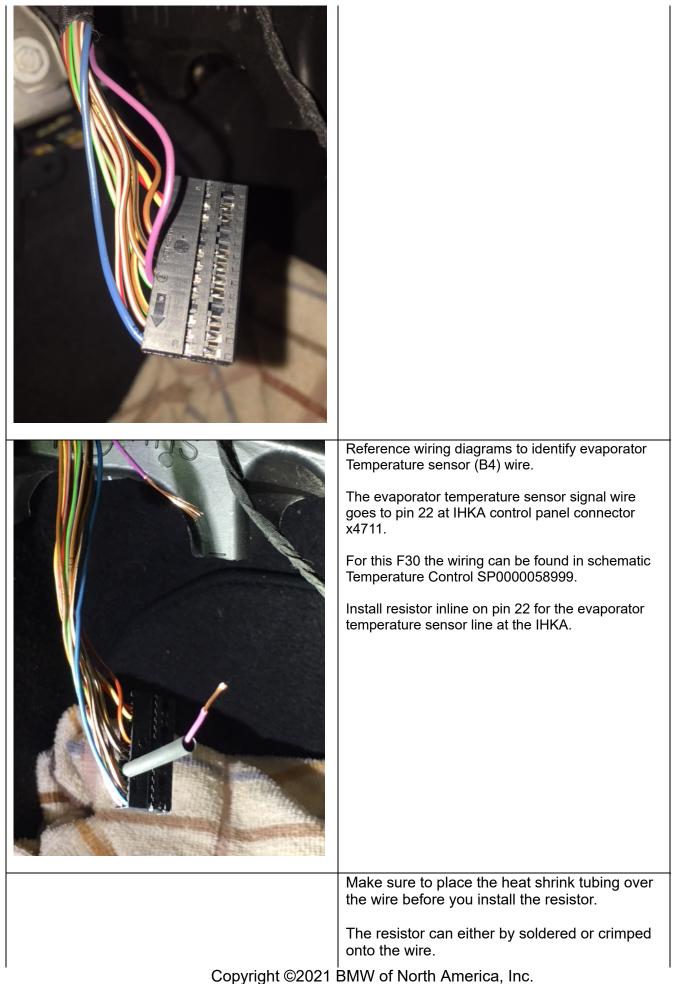
In the rare case, in very high humidity areas, that the evaporator continues to experience freezing after the above countermeasures have been performed, modify the evaporator temperature sensor input by installing an 800-ohm (1/4 watt) resistor in-line between the evaporator temperature sensor and the IHKA control panel.

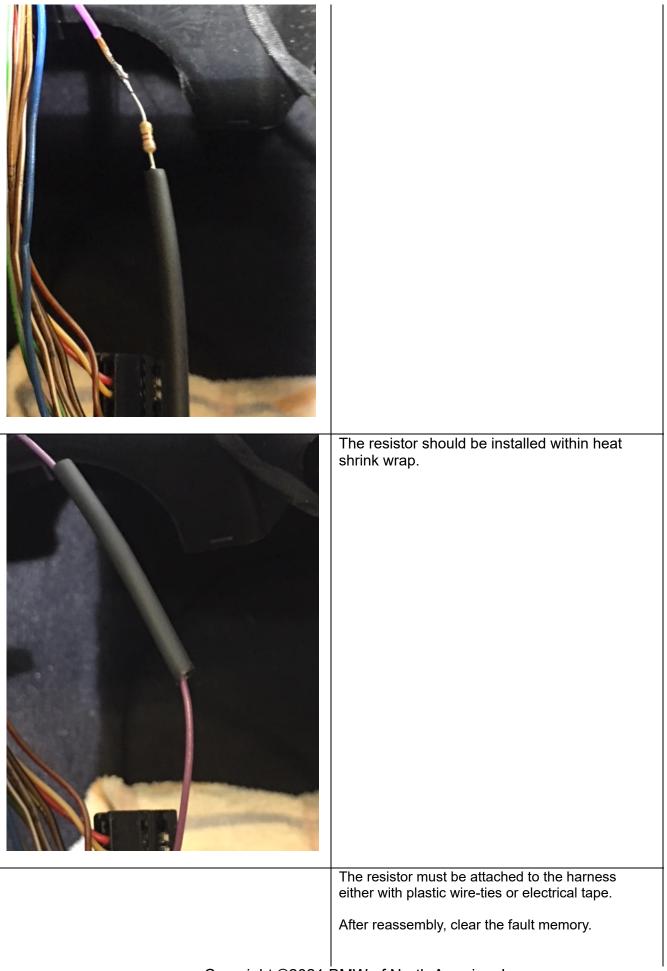
The resistor must be obtained locally and is not available via BMW parts.

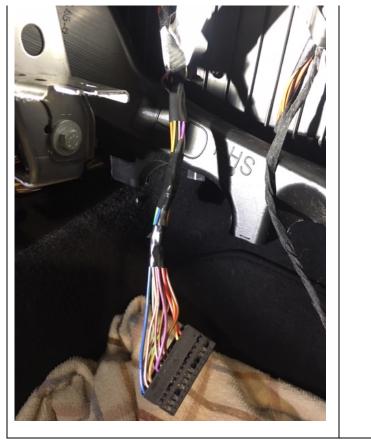
A single resistor or two resistors in series that total between 750-850 ohms is acceptable.











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
64 11 9 350 495	Evaporator temperature sensor adapter	1

WARRANTY INFORMATION

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

Install a new evaporator temperature sensor adapter for vehicles produced prior to September 30, 2013 (I)

Defect Code:	6411794000	Evaporator temperature sensor, front poorly adjusted / outside of tolerance		
: Labor Description				
Operation	Description		Labor Allowance	
64 99 000		Work time to check IHKA housing and install the evaporator temperature sensor adapter (Main work)		
Or:				
64 99 000	Work time to check IHKA housing and install the evaporator temperature sensor adapter (Plus work - vehicle already in the workshop)		2 FRU	

Only one Main work flat rate labor operation code can be claimed per workshop visit.

Or, to:

Perform a conversion to raise the minimum evaporator temperature for vehicles produced on or after October 1, 2013 (II)

During this workshop visit, the affected vehicle may also show one or more programming and encoding Technical Campaign repairs open, the programming and encoding procedure may only be invoiced one time.

Select one of these open Technical Campaigns to perform and submit for updating the vehicle to the required I-level or higher.

Please be sure to also perform any additional work (before and/or after) as required by the open campaign(s) on the vehicle. Close any other remaining open programming and encoding Campaign repairs as outlined in the corresponding Service Information Bulletin.

Only if the above situation does not apply, the BMW conversion solution is then:

Covered under the terms of the BMW New Vehicle Limited Warranty for Passenger Cars and Light Trucks or the BMW Certified Pre-Owned Program as described below.

Defect Code:	6400315900	Cooling mode too low / small	
:			
Labor Operation	Description		Labor Allowance
00 00 006	Performing veh checking faults	icle test (with vehicle diagnosis system –) (Main work)	Refer to AIR
Or:			
00 00 556	Performing veh checking faults	icle test (with vehicle diagnosis system –) (Plus work)	Refer to AIR
And:			
61 21 528		e of the vehicle electrical system / e electrical system battery	Refer to AIR
And:			
61 00 730	Programming/e	ncoding control unit(s)	Refer to AIR

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.

And, additionally for the:

e-Vehicles

Labor Operation	Description	Labor Allowance
61 25 910	Recharging high-voltage battery unit (to high voltage charging socket)	Refer to AIR

And, only if necessary:

Install resistor (800-ohm 1/4 watt) in the evaporator temperature sensor line, all production dates (III)

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

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Defect Code:	6411794000	Evaporator temperature sensor, from outside of tolerance	t poorly adjusted /
:			
Labor Operation	Description		Labor Allowance
51 16 366	Remove and install the right-hand glove compartment with housing (Main work)		Refer to AIR
Or:		· · ·	
51 16 866	Remove and install the right-hand glove compartment with housing (Plus work - vehicle already in the workshop)		Refer to AIR
And:			
61 31 821	Removing and installing radio and A/C control panel		Refer to AIR
And:			
61 99 000	Job/repair work time to retrofit/install resistor inline the wiring for the evaporator temperature sensor line at the IHKA		4 FRU

If you are using a Main labor code for another repair, use the Plus code labor operation 51 16 866 instead of 51 16 366.

Refer to AIR for the corresponding flat rate unit (FRU) allowances.

Work time labor operation code 61 99 000 is not considered a Main labor operation

For the above and for any addition work that is performed, 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), RO/Claim WT and/or repair explanation procedures.

Programming and Encoding Vehicle Control Units (II) (RO and Claim Comments Required)

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 (including performing the IRAP Control Unit Recovery procedure first as required, refer to the SIB in AIR) 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.

For control module failures that occurred prior to performing this programming procedure:

When covered under an applicable limited warranty, claim the applicable test plan and the corresponding control module-related repair work using the applicable defect code and labor operations in AIR (including diagnosis).

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	

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Parts inquiries