



## AIR CONDITIONING COOLING IS INSUFFICIENT

This Service Information Bulletin (Revision 1) replaces SI B64 06 17 **dated November 2017**.

**What's New** (Specific text highlighted):

- Model – Affected vehicle production range increased to July.
- Situation
- Parts
- Warranty

**MODEL**

E-Series	Model Description	Production Date	Affected Option Code
G12	7 Series Sedan	Vehicles produced from July 1, 2015 to March 31, 2017	Vehicles with B46O or B48 or B58M engine
G30	5 Series Sedan		

**SITUATION**

There is insufficient or no cooling from the air-conditioner during high ambient temperatures. There also may be irregular A/C air flow from vents.

The following fault code is stored in the IHKA (Integrated Heating and Air-Conditioning Automatic):

**80120A “Air conditioning compressor: Shut-down due to excess pressure in refrigerant circuit”**

**CAUSE**

Gel formation and obstruction in the coolant circuit is caused by a reaction between the engine coolant fluid and flux residue from the WCC (Water-Cooled Condenser).

**CORRECTION**

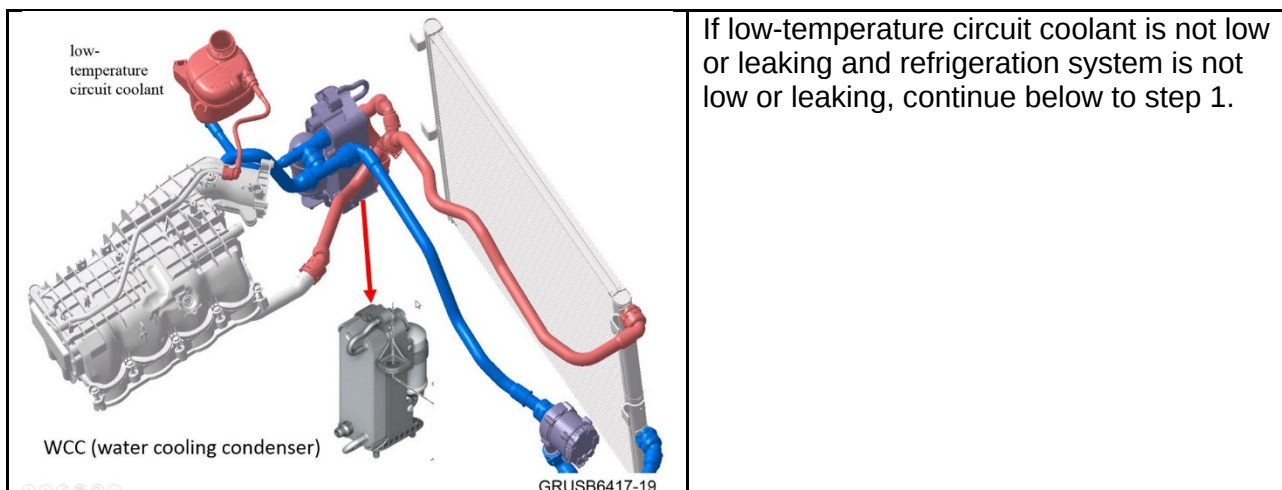
After elimination of other possibilities, replace:

- Low-temperature radiator
- Intake system with charge air cooler
- Water Cooling Condenser (WCC)
- Renew coolant fluid (Anti-freeze)

**PROCEDURE**

**Note:** A leak in the coolant or refrigerant circuit can cause the same symptoms and should be checked prior to performing the repair outlined in this service information bulletin. A leak is a different root cause. Follow the normal procedure for diagnosis.

For conditions that are similar to the situation described above with Fault code in IHKA: 80120A “Air conditioning compressor: Shut-down due to excess pressure in refrigerant circuit” stored, continue to the next step below.



1. Completely drain **all** coolant from the low-temperature circuit and dispose properly based on your local regulations.
2. Evacuate the refrigeration circuit.
3. **Replace the AC Condenser WCC with the new part specified below.** Refer to ISTA 64 53 550 “Removing and installing or replacing capacitor for heating and air conditioning system”.
4. **Replace the low-temperature radiator with new part specified below.** Refer to ISTA REP 17 11 006 “Remove and install/ replace low temperature cooler”.
5. Replace the intake system with charge air cooler with new part listed below. Refer to ISTA REP 11 61 050 “Removing and installing the intake plenum”. These parts are different based on which engine is installed.
6. Refill coolant circuit with new coolant refer to Operating Fluids in TIS Group 17; refer to ISTA REP 17 00 011/580 (Inclusive labor operation) “Draining and topping up coolant circuit for low temperature”.

**Note:** Do not reuse drained coolant from the radiator.

7. Refill the A/C refrigerant.
8. Test A/C system for proper cooling behavior.

## **PARTS INFORMATION**

<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
64 50 9 891 030	Condenser air conditioning with drier	1
17 11 8 484 638	Radiator, Low temperature	1
17 12 7 507 149	Pipe, radiator-cylinder head	1
11 61 8 603 913	intake system with charge air cooler (B58)	1
11 61 8 603 914	intake system with charge air cooler (B46)	1
82 14 2 209 769	Antifreeze/Coolant - Quart	2*
83 19 2 287 039	Refrigerant R1234yf (1 oz unit)	As needed

\*Two quarts = one (1) gallon of coolant solution.

## **WARRANTY INFORMATION**

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

### **Diagnosis**

<b>Labor Operation</b>	<b>Description</b>	<b>Labor Allowance</b>
00 00 006	Performing vehicle test (with vehicle diagnosis system – checking faults) (Main work)	Refer to AIR
Or:		
00 00 556	Performing vehicle test (with vehicle diagnosis system – checking faults) (Plus work)	Refer to AIR
And:		

61 21 528	Support voltage of the vehicle electrical system / recharge vehicle electrical system battery	Refer to AIR
And:		
64 99 000	Work time for checking the function of the conditioning system	WT

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.

Work time labor operation code 64 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

Claim the diagnosis above, one-time as applicable, with the items performed below:

<b>Defect Code:</b>	<b>1711007200</b>	<b>Coolant radiator incl. module bracket poorly vented</b>
:		
<b>Labor Operation</b>	<b>Description</b>	<b>Labor Allowance</b>
17 11 576**	Remove and install/replace low temperature cooler	Refer to AIR
11 61 550**	Removing and installing intake manifold	Refer to AIR

And:

<b>Defect Code:</b>	<b>6453021500</b>	<b>Air conditioning condenser (including desiccant insert) permanent malfunction</b>
:		
<b>Labor Operation</b>	<b>Description</b>	<b>Labor Allowance</b>
64 50 510	Discharging, evacuating and filling air conditioner	Refer to AIR
And:		
64 53 551**	Removing and installing or replacing condenser (with drier) of air conditioner	Refer to AIR

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

And, as needed:

#### Sublet – Bulk Materials

<b>Sublet Code</b> <b>4</b>	See sublet reimbursement calculation 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

#### Overlapping Labor Procedure – Required

If invoicing the KSD2 flat rate labor operation codes for the above repairs\*\*\* and other repair work results in overlapping labor, for those flat rate labor operations that are affected, you can now:

- Replace the stated KSD2 “FRU allowance” with a “reduced FRU value” to eliminate the overlapping labor.

**\*\*Specifically, for this bulletin, flat rate labor operations 17 00 580, 17 11 535, 51 64 535 and 51 47 500 are inclusive to two or more of the labor operation listed in this bulletin. Other FRU allowance reductions may also be required.**

For help in identifying other overlapping labor, please refer to the AIR FRU Plausibility Check (Overlapping Labor Tool) that is located in the AIR Client.

Eligible other repair work being claimed under a different defect code will require separate punch times.

On the repair order and in the claim comment section, please identify and itemize those labor operations being claimed with a “reduced FRU value.”

**Other Repairs**

If other eligible and covered work is performed as a result of diagnosing the coolant and air conditioning systems, claim this work with the applicable defect code and the labor operations that are listed 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
Parts inquiries	Submit an IDS ticket to the Parts Department