SIB 17 06 17

2019-09-06

COOLANT LEAK FROM LOW TEMPERATURE COOLING CIRCUIT (N63R)

This Service Information Bulletin (Revision 4) replaces SI B17 06 17 **dated June 2019.**

What's New (Specific text highlighted):
• Labor Operations Updated

MODEL

E-Series	Model Description	Production Date	Affected Option Code / Engine
G05	(X5 Sports Activity Vehicle)		
G07	(X7 SAV)		
G12	(7 Series Sedan)		
G30	(5 Series Sedan)		

SITUATION

Coolant leaking from the engine compartment. Traces of coolant leaking from the expansion tank of the low temperature cooling system.

Coolant in the low temperature cooling circuit may also have an acrid smell and discoloration (1).

CAUSE

Aluminum corrosion in the charge air intercoolers, or in the radiator for the low temperature cooling is causing an unfavorable chemical reaction to the coolant.

CORRECTION

Replace the radiator and both charge air coolers for the low temperature cooling circuit. Allow all the coolant in the system to drain during repairs (do not clamp off hoses).

PROCEDURE

1. Replace the low temperature radiator.
   - Refer to Repair Instruction **17 11 006 "Remove and install/ replace low temperature cooler".**

2. Replace the left charge air cooler.
   - Refer to Repair Instruction **17 51 001 "Removing and installing/replacing the left charge air cooler".**

3. Replace the right charge air cooler.

- Refer to Repair Instruction **17 51 002 "Removing and installing/replacing the right charge air cooler".**

4. Refill and bleed the low temperature cooling system.
   - Refer to Repair Instruction **17 00 040 "Bleed the cooling system and check for water tightness with the special tool (coolant circuit for low temperature)".**

5. Test drive the vehicle for one hour (10 FRU) so that the engine is subjected to many load changes and coolant system activation cycles.

6. After the test drive, let the engine idle (with proper ventilation) for one more hour (1 FRU to monitor only).

7. Drain the low temp cooling system again and refill with new coolant.
   - Refer to Repair Instruction **17 00 011 "Draining and topping up the coolant for the low-temperature circuit".**

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:**
17 11 8 484 639	Radiator (G12 4/17 or later production, G30 all)	1
17 51 8 619 390	Charge air cooler cylinders 1-4 (G12 and G30)	1
17 51 8 619 391	Charge air cooler cylinders 5-8 (G12 and G30)	1
17 11 8 697 883	Radiator (G05/07)	1
17 51 8 660 688	Charge-air cooler Cyl. 1-4 (G05/07)	1
17 51 8 660 689	Charge-air cooler Cyl. 5-8 (G05/07)	1
07 14 9 390 155	Hex bolt with washer M8X28-10 9-ZNS3	2
51 71 6 966 566	Hexagon screw with flange M10X45	6

WARRANTY INFORMATION

Defect Code:	**1751017600**	**Charge air cooler dirty/blocked**
Labor Operation	**Description**	**Labor Allowance**
17 51 005	Removing and installing or replacing both intercoolers (Main work)	Refer to AIR
Or:		
17 51 505	Removing and installing or replacing both intercoolers (Plus work)	Refer to AIR
And:		
17 99 000	Work time for removing and installing or replacing low temperature cooler (Associated work in conjunction with 17 51 005/505)	5 FRU (G12/G30)
Or:		
17 11 576	Remove and install/ replace low temperature cooler (G05/07)	Refer to AIR
And:		
11 99 000	Work time to test drive and idle the vehicle with new coolant	11 FRU
And:		
00 50 000	Work time for the second (2nd) drain and refill low-	19 FRU

	temperature circuit (17 00 580) procedure (after test drive and idling)		

If you are using a Main labor code for another repair, use the Plus code labor operation 17 51 505 instead of 17 51 005.

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

Work time labor operation codes 17 99 000, 11 99 000 and 00 50 000 are not considered Main labor operations. Also, since the work time FRU allowances to be claimed are specified, separate punch times are not required. However, they still require an explanation on the repair order and in the claim comments section.

And:

Sublet – Bulk Materials

Sublet Code 4	See sublet reimbursement calculation below	Reimbursement for replacing the drained quantity of antifreeze/coolant (Bulk container reference 82 14 1 467 704, one gallon container. Do not use this part number for claim submission)

Sublet calculation: BMW antifreeze/coolant (1 gallon bulk container reference P/N 82 14 1 467 704) for approximately 4 liter (8 liters total) that is needed for this repair (50/50 mixture) at dealer net plus your center’s handling.

Enter this material cost in sublet and itemize the amount on the repair order and in the claim comments section.

Overlapping Labor Procedure – Other Repairs

If invoicing the AIR flat rate labor operation codes for other repair work results in overlapping labor, for those flat rate labor operations that are affected, you are able to:

- Replace the stated AIR FRU allowance with a reduced FRU value to eliminate the overlapping labor.

For help in identifying the 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.