



“COOLANT LEVEL LOW”: LEAKING EXPANSION TANK

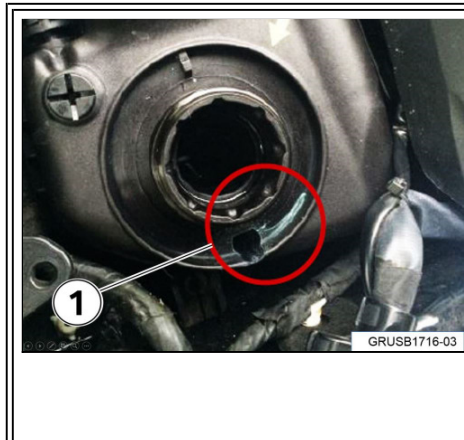
MODEL

G12 (7 Series) with N63R engine

SITUATION

- Check Control Message (CCM): “Coolant Level Low”
- Hissing noise from the coolant expansion tank with engine at operating temperature
- Evidence of coolant coming out of expansion tank

CAUSE



Coolant expansion tank leak in the vicinity of the drainage channel. (1)

CORRECTION

Replace coolant expansion tank if:

- It is a specified part number (see Procedure).
- It fails a pressure test.

PROCEDURE

If the vehicle has the condition described above:

1. Check part number of installed expansion tank.

Is the part number of the installed tank 17 13 8 610 657 or 17 13 8 677 651?

YES –replace the tank with part number 17 13 8 689 765. Verify part number on received part before installation. Procedure is complete.

NO- Go to next step (Other repairs).

2. Perform a complete cooling system, and coolant expansion tank cap, pressure test according REP 17 00 009 “Checking cooling system for water tightness”.
 - Maintain pressure for at least 15 minutes due to the small size of reported leaks.
 - Always check expansion tank for coolant traces even though other leaks may have also been found.
3. Replace any components found to be leaking. Refer to [SIB 17 01 07](#) for proper refilling of the coolant system after repairs of components that require coolant corrosion protection.
4. Top off with new coolant and bleed the cooling system.

PARTS INFORMATION



Warning: The part number listed in ETK for these vehicles is not the correct part to use for this repair, request and invoice one of the part numbers specified below only.

Part Number	Description	Quantity
17 13 8 689 765	Expansion tank	1
82 14 1 467 704	Antifreeze	As needed

Performing a part number look-up in ETK by VIN or model will result with the wrong part being invoiced and installed.

WARRANTY INFORMATION

Procedure Step #1: Covered under the terms of the BMW New Vehicle Limited Warranty for Passenger Cars and Light Trucks.

Defect Code:	17 11 02 48 00.	
Labor Operation:	Labor Allowance:	Description:
17 11 100	Refer to KSD2	Removing and installing or replacing coolant expansion tank (Main work)
Or:		
17 11 550	Refer to KSD2	Removing and installing or replacing coolant expansion tank (Plus work – Vehicle is already in the workshop)

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)
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Sublet calculation: BMW antifreeze/coolant (1 gallon bulk container reference P/N 82 14 1 467 704) for approximately 1 liter (2 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 in the claim comment section.

Other Repairs

Procedure Steps #2 through #4: If other cooling system-related repairs are required and performed:

- When they are covered under an applicable limited warranty, claim these repairs using the applicable defect code and labor operations in KSD2.

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