

SIB 17 03 20

2020-05-07

COOLANT LINE QUICK DISCONNECTS LEAK IN LOW TEMPERATURES AT OR BELOW -15°C (5°F)

MODEL

G01 (X3 Sports	G02 (X4 Sports	G05 (X5 Sports	G07 (X7 Sports Activity
Activity Vehicle)	Activity Coupe)	Activity Vehicle)	Vehicle)
built to March 31,			
2019			

SITUATION

- The coolant reservoir in the high or low temperature cooling system is low
- There may be a coolant leak under the vehicle
- There may be a check control message (ID166) to top up coolant
- The low temperature cooling system have a low level warning indicator. One or more faults may be stored related to the low temp cooling system:
 - DME 20A201 charge air cooling system: Coolant pump protective function due to dry running active
 - DME 20A209 charge air cooling system: Coolant pump protective function due to dry running active
 - IHKA 80120A Compressor: Switch off due to excess pressure in the refrigerant circuit
- The outside temperature at the time of the complaint is at or below -15° C (5° F)

CAUSE

The O-rings that seal the quick disconnect coolant lines will not seal properly when **outside temperatures** are at or below -15° C (5° F).

CORRECTION

Replace the coolant lines listed in the attachments.

All coolant lines listed must be replaced if there are signs of coolant leaking from any of the listed coolant lines (see attachments).

This repair is only intended for vehicles that have a confirmed coolant leak and the outside temperature is at or below -15° C (5° F).

PROCEDURE

Refer to the vehicle/engine appropriate attachment

PARTS INFORMATION

Please refer to the corresponding attachment for the hose replacements that apply to the vehicle and engine combination requiring this repair.

Part Number	Description	
83 19 2 468 442	BMW Antifreeze/Coolant (1 gal) - HT-12	See below

WARRANTY INFORMATION

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

Defect Code:	upling not leaktight	
Labor Operation	Description	Labor Allowance
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	Connect an approved battery charger/power supply (indicated in AIR as Charging battery)	Refer to AIR
And:		
17 00 509	Check the cooling system for watertightness with the special tool (High Temperature)	Refer to AIR
And:	, ,	
17 00 529	Check the cooling system for watertightness with the special tool (Low Temperature)	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.

Or:

And:

Labor Operation	Description	Labor Allowance
17 00 009	Check the cooling system for watertightness with the special tool (High Temperature)	Refer to AIR
Or:		
17 00 509	Check the cooling system for watertightness with the special tool (High Temperature)	Refer to AIR
And		
17 00 529	Check the cooling system for watertightness with the special tool (Low Temperature)	Refer to AIR

If you are using a Main labor code for another repair, use the Plus code labor operation 17 00 009 instead of

Labor Operation	Description	Labor Allowance
Refer to AIR	Replace all the coolant hoses listed in the repair Procedure attachment that applies. Refer to AIR for available flat rate labor operations for specific hoses and other required work to allow access including work time (WT with separate punch times) as necessary.	Refer to AIR

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

Please identify and itemize those flat rate labor operations with reduced FRU values on the repair order and in the claim comment section.

And:

Sublet - Bulk Materials

Sublet Code 4	See sublet	Reimbursement for replacing the drained quantity
	reimbursement	of antifreeze/coolant (Bulk container reference
	calculation below	P/N 83 19 2 468 442 , one gallon container. Do not
		use this part number for claim submission)

Sublet calculation: BMW antifreeze/coolant (1 gallon concentrate bulk container reference **P/N 83 19 2 468 442)** for approximately 8.5 - 10.5 liters (17 – 21 liters total depending on model and options) 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.

Supporting Materials

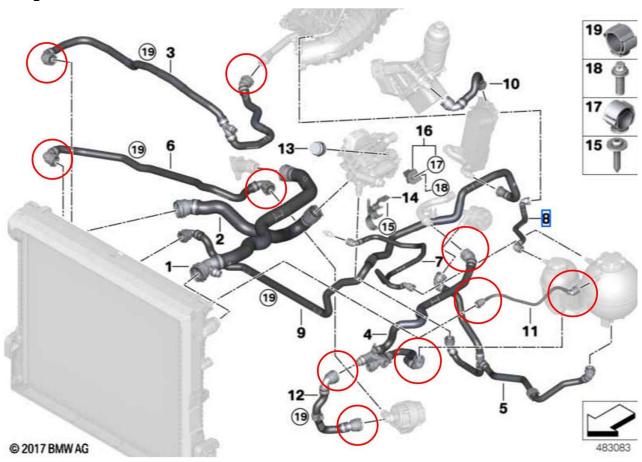
picture as pdf B170320 G05 and G07 N63M.pdf picture as pdf B170320 G01 and G02 B58M.pdf picture as pdf B170320 G05 and G07 B58C.pdf picture as pdf B170320 G01 and G02 B46O.pdf

G01/G02 with the **B460**

Check the cooling system (high and low temperature) for any active leaks following Repair Instruction 17 00 009 Check the cooling system for watertightness with the special tool (with tester).

Repair any leaks found in the cooling system during this check.

Checking the Quick Disconnects



Check the quick disconnects (red circles) on the above hoses for any traces of coolant loss (wet or dried coolant). Replace <u>all</u> hoses listed below if <u>any</u> of the quick disconnects (circled red) show signs of coolant loss.

List of affected hoses and replacement part numbers.

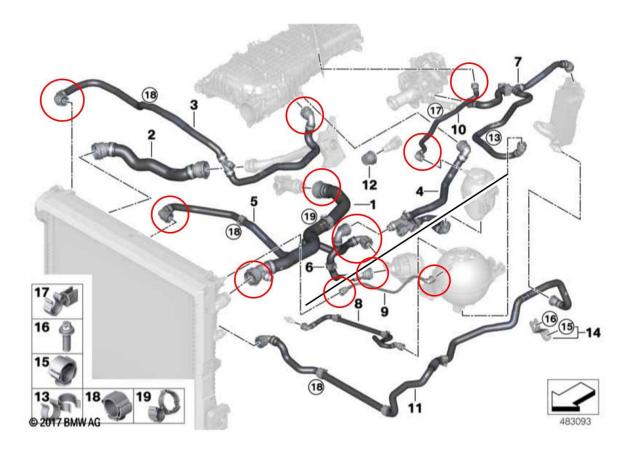
ETK#	Cooling Circuit	Old Part Number	New Part Number	Description
		17 12 7 535 527	17 12 9 894 763	
11	HT	or	or	Hose radiator
		17 12 7 562 164	17 12 5 A02 2D6	
12	LT	17 12 7 535 570	17 12 9 894 744	Hose heat management
12	L1	17 12 7 333 370	17 12 9 034 744	module
6	LT	17 12 7 535 540	17 12 9 894 739	Hose radiator
3	LT	17 12 7 535 542	17 12 9 894 741	Hose coolant radiator -
3	LI	17 12 7 555 542	17 12 9 094 741	intake plenum
4	I T	17 12 7 535 543	17 12 9 894 753	Coolant return line intake
4	L1	11 12 1 333 343	11 12 3 034 133	system

G01/G02 with the B58M

Check the cooling system (high and low temperature) for any active leaks following Repair Instruction 17 00 009 Check the cooling system for watertightness with the special tool (with tester).

Repair any leaks found in the cooling system during this check.

Checking the Quick Disconnects

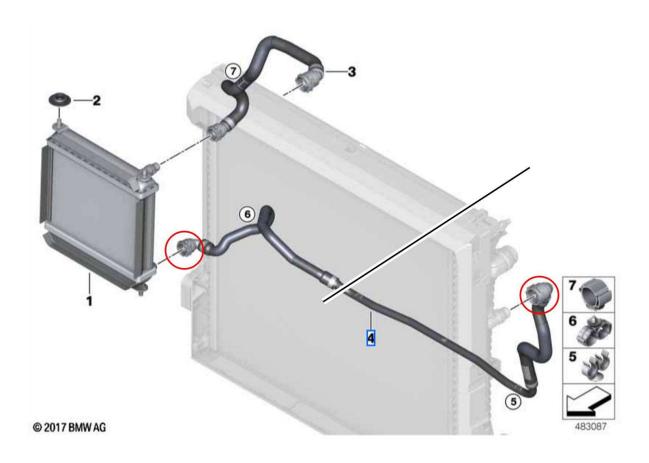


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Check the quick disconnects (red circles) on the above hoses for any traces of coolant loss (wet or dried coolant). Replace <u>all</u> hoses listed below if <u>any</u> of the quick disconnects (circled red) show signs of coolant loss.

ETK#	Cooling Circuit	Old Part Number	New Part Number	Description
		17 12 7 535 527	17 12 9 894 763	
9	HT	or	or	Hose radiator
		17 12 7 562 164	17 12 5 A02 2D6	
6	LT	17 12 7 535 570	17 12 9 894 744	Hose heat management
	LI	17 12 7 333 370	17 12 9 094 744	module
5	LT	17 12 8 673 201	17 12 9 894 740	Hose radiator
10	LT	17 12 7 535 567	17 12 9 894 754	Hose for expansion tank -
10	LI	17 12 7 555 567	17 12 3 034 734	Intake plenum
3	LT	17 12 7 535 568	17 12 9 894 743	Hose coolant radiator -
	LI	17 12 7 333 300	11 12 3 034 143	Intake plenum

Vehicle may also be equipped with only one additional radiator. Check at the quick disconnects (circled red) for signs of coolant loss.



List of affected hoses and replacement part numbers.

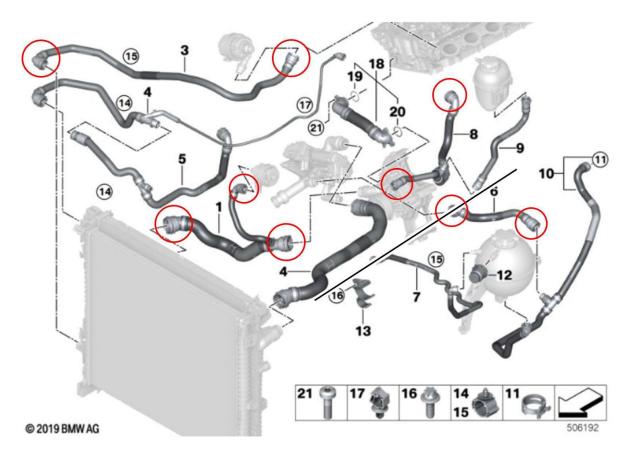
ETK#	Cooling Circuit	Old Part Number	New Part Number	Description
4	НТ	17 12 7 535 548	17 12 9 894 749 or 17 12 5 A02 2D7	Hose radiator

G05/G07 with the B58M

Check the cooling system (high and low temperature) for any active leaks following Repair Instruction 17 00 009 Check the cooling system for watertightness with the special tool (with tester).

Repair any leaks found in the cooling system during this check.

Checking the Quick Disconnects

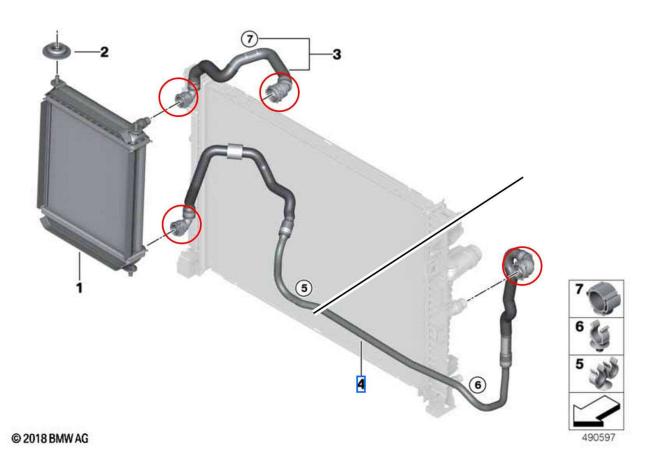


Check the quick disconnects (red circles) on the above hoses for any traces of coolant loss (wet or dried coolant). Replace <u>all</u> hoses listed below if <u>any</u> of the quick disconnects (circled red) show signs of coolant loss.

List of affected hoses and replacement part numbers.

ETK#	Cooling Circuit	Old Part Number	New Part Number	Description
3	LT	17 12 8 689 251	17 12 9 894 780	Hose electric water pump
1	LT	17 12 7 935 687	17 12 9 894 783	Hose radiator - water pump
6	LT	17 12 8 654 340	17 12 9 894 779	Hose heat management module
5	LT	17 12 8 742 670	17 12 9 894 777	Line radiator
8	LT	17 12 8 689 254	17 12 9 894 784	Hose electric water pump

Vehicle may also be equipped with only one additional radiator. Check at the quick disconnects (circled red) for signs of coolant loss.



List of affected hoses and replacement part numbers.

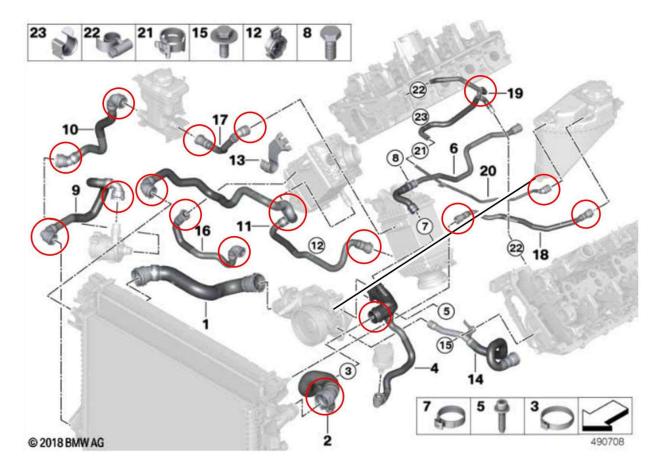
	ETK#	Cooling Circuit	Old Part Number	New Part Number	Description
	3	HT	17 12 8 654 326	17 12 9 894 789	Hose, external radiator
Ī			17 12 7 935 683	17 12 9 797 624	
	4	HT	or	or	Line radiator
			17 12 7 562 166	17 12 5 A02 2E9	

G05/G07 with the N63M

Check the cooling system (high and low temperature) for any active leaks following Repair Instruction 17 00 009 Check the cooling system for watertightness with the special tool (with tester).

Repair any leaks found in the cooling system during this check.

Checking the Quick Disconnects

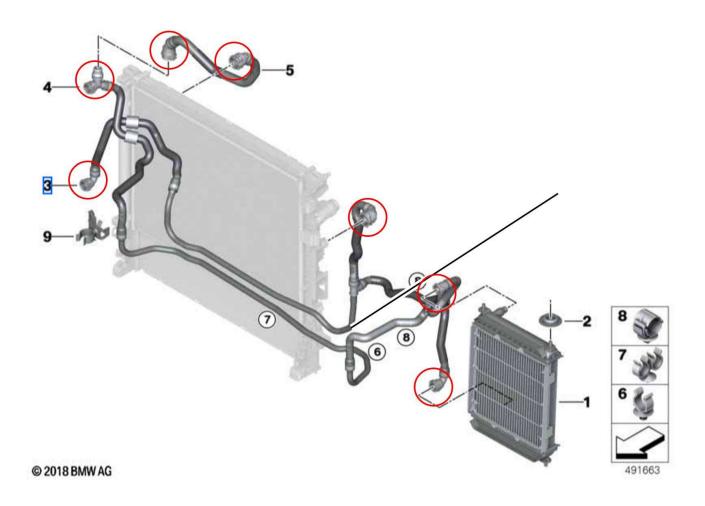


Check the quick disconnects (red circles) on the above hoses for any traces of coolant loss (wet or dried coolant). Replace <u>all</u> hoses listed below if <u>any</u> of the quick disconnects (circled red) show signs of coolant loss.

List of affected hoses and replacement part numbers.

ETK#	Cooling Circuit	Old Part Number	New Part Number	Description
18	HT	17 12 8 664 104	17 12 9 894 775	Hose radiator
20	HT	17 12 7 536 481	17 12 9 894 790 or	Pipe, expansion tank -
20	111	17 12 7 550 461	17 12 5 A02 2F0	cylinder head
2	HT	17 12 7 536 483	17 12 9 894 786	Hose radiator
9	LT	17 12 7 536 487	17 12 9 894 765	Hose electric water pump
11	LT	17 12 8 689 252	17 12 9 894 778	Hose radiator
16	LT	17 12 7 536 489	17 12 9 894 788	Hose charge air cooler
17	LT	17 12 7 536 490	17 12 9 894 787	Hose charge air cooler
10	LT	17 12 7 536 491	17 12 9 894 766	Hose for expansion tank

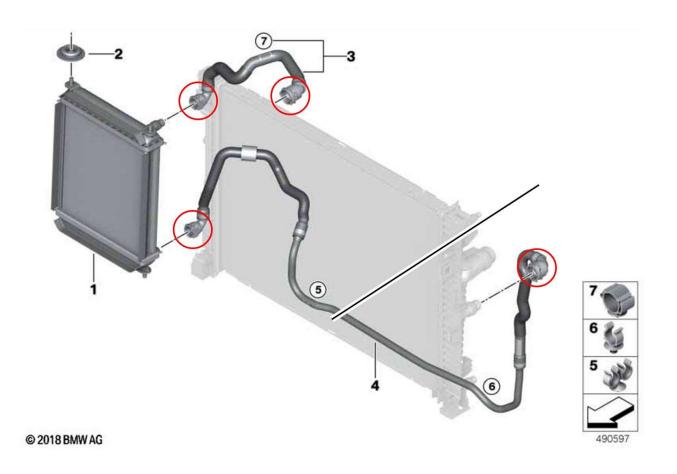
The vehicle may also be equipped with two additional radiators. Check at the quick disconnects (circled red) for signs of coolant loss.



List of affected hoses and replacement part numbers (one additional radiator).

ETK#	Cooling Circuit	Old Part Number	New Part Number	Description
4	HT	17 12 7 536 472	17 12 9 894 773	Hose, external radiator
		17 12 8 697 856	17 12 9 797 613	
3	HT	or	or	Line external radiator
		17 12 7 562 167	17 12 5 A02 2F4	
10	НТ		17 12 9 797 619	
		17 12 8 697 862	or	Line external radiator
			17 12 5 A02 2F5	

Vehicle may also be equipped with only one additional radiator. Check at the quick disconnects (circled red) for signs of coolant loss. **NOTE:** If the vehicle is equipped with two additional radiators this check isn't necessary (these hoses will not be installed in the vehicle).



List of affected hoses and replacement part numbers (one additional radiator).

ETK#	Cooling Circuit	Old Part Number	New Part Number	Description
		17 12 7 935 683	17 12 9 797 624	
4	HT	or	or	Line radiator
		17 12 7 562 166	17 12 5 A02 2E9	
			17 12 9 894 790	
3	HT	17 12 8 654 354	or	Line radiator
			17 12 5 A02 2F0	