



MODEL

G30 (5 Series 540dX)	
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SITUATION

The following check control messages are displayed (CCM):

- Continued driving possible. Engine temperature (CCM ID 257)

Or:

- Stop carefully. Engine overheated (CCM ID 39)

CAUSE



The changeover valve (1) for the coolant pump is binding.

CORRECTION

Check the operation of the changeover valve and if necessary, replace the coolant pump.

PROCEDURE

Activate the changeover valve with ISTA through the following path: Function Selection/Power train/Digital Diesel Electronics/Engine cooling/Coolant pump changeover valve and select ABL Coolant pump changeover valve.

Follow the test plan and monitor the changeover valve for proper operation. Ensure it fully opens and closes and operates smoothly (not jamming or notchy operation). Replace the coolant pump if the valve does not operate correctly.

If the valve does not operate at all during the test plan:

- Manually push on the valve to check for binding. Replace the coolant pump if the valve is seized or jamming/not smooth operation.
- If the valve moves freely when manually operated, check the vacuum actuator operation using a hand held vacuum pump.

- If the actuator works correctly, diagnose the vacuum lines/solenoid and make the necessary repairs. Perform another functional check of the changeover valve to confirm repairs.

If no fault can be found with the test plan or manual operation:

- Clear the faults and take the vehicle for test drive, starting with the engine cold (changeover valve activates for faster engine warmup). Replace the coolant pump if the check control message returns for any engine running too hot.
- If there are no Check Control messages, release the vehicle.

PARTS INFORMATION

Part Number	Description	Quantity
11 51 8 582 740	Coolant pump, variable flow	1
Bulk Materials		
82 14 1 467 704	Antifreeze	As needed

Refer to the ETK and the repair instructions for one time use fastener and component information regarding additional screws, gaskets and seals.

WARRANTY INFORMATION

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

Defect Code:	1151073900	
Labor Operation:	Labor Allowance:	Description:
00 00 006	Refer to KSD2	Performing "vehicle test" (with vehicle diagnosis system – checking faults) (Main work)
Or:		
00 00 556	Refer to KSD2	Performing "vehicle test" (with vehicle diagnosis system – checking faults) (Plus work)
And:		
61 21 528	Refer to KSD2	Connect an approved battery charger/power supply (indicated in KSD2 as "Charging battery")
And:		
61 00 006	1 FRU	Run test plan for the changeover valve
And, as applicable:		
11 99 000	1 FRU	Manually checking changeover valve operation
And:		
11 51 508	Refer to KSD2	Replace coolant pump

Or:		
11 51 504	Refer to KSD2	Replace coolant pump (Coolant drained and will be refilled in conjunction with another repair)

Labor operation code 00 00 006 is a Main labor operation. If you are using a Main labor code for another repair, use the Plus code labor operation 00 00 556 instead.

Work time labor operation codes 61 00 006 and 11 99 000 are not considered a 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.

Sublet – Bulk Materials

Sublet Code 4	See the sublet reimbursement calculations below	Reimbursement for the repair-related bulk materials (Do not use part numbers for claim submission)
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Sublet reimbursement calculation for claiming BMW antifreeze/coolant (1 gallon bulk container reference P/N 82 14 1 467 704) for approximately 2 liters (“quantity used,” 4 liters total at a 50/50 solution) is at the dealer net price for the plus your center’s handling.

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

Other Repairs

If other eligible and covered work is performed after carrying out the ISTA diagnostics and the related test plans/inspections, claim this work with the applicable defect code and labor operations (including diagnosis) that are listed in the KSD2/AIR.

Overlapping Labor Procedure – Other Repairs

If invoicing the KSD2 flat rate labor operation codes for 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.

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.”