



SI B17 01 13  
Cooling Systems

September 2013  
Technical Service

This Service Information bulletin supersedes SI B17 01 13 **dated March 2013**.

**PERFORM THE PROCEDURE OUTLINED IN THIS SERVICE INFORMATION ON ALL AFFECTED VEHICLES BEFORE CUSTOMER DELIVERY OR THE NEXT TIME THEY ARE IN THE SHOP FOR MAINTENANCE OR REPAIRS.**

**NEW** designates changes to this revision

#### SUBJECT

**Service Action: Replace Coolant Expansion Tank**

#### MODEL

F30

#### SITUATION

The low coolant level warning may come on in the information display.

#### CAUSE

Insufficient contact at the electrical connector for the coolant level sensor causes an inaccurate reading of the coolant level.

#### AFFECTED VEHICLES

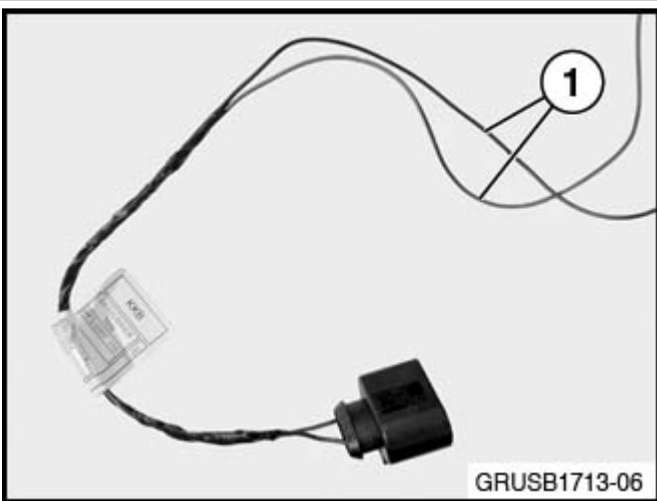
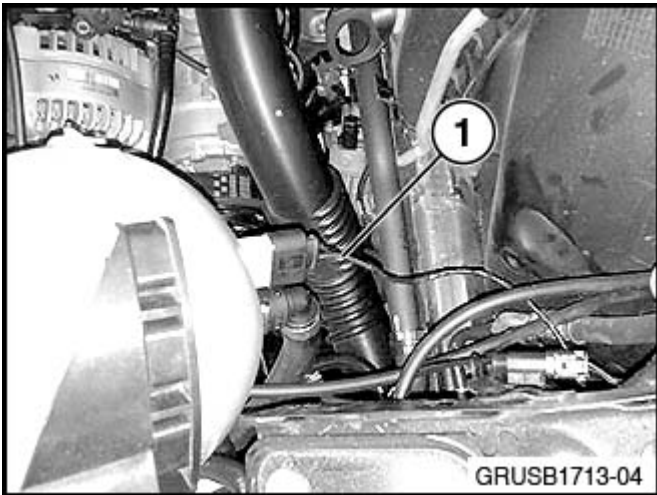
This Service Action involves certain F30 vehicles with the N20 engine which were produced from 10/2011 to 7/2012.

In order to determine whether a specific vehicle has had this Service Action completed or is affected by this Service Action, first check the B-pillar label for code number **643**. If code number **643** has been punched out, the campaign has already been performed. If code number **643** has not been punched out, it will be necessary to utilize the "Service Menu" of DCSnet (Dealer Communication System) or the Key Reader. Based on the response of the system, either proceed with the corrective action or take no further action.

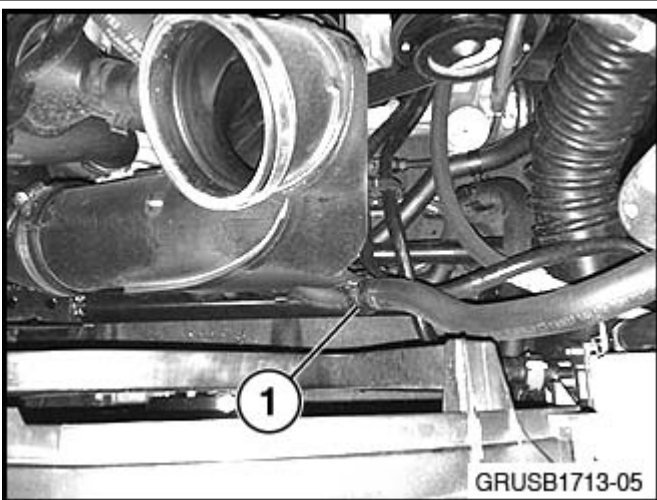
#### **NEW** PROCEDURE

Remove the coolant expansion tank per Repair Instruction 17 11 100.

	<p>Cut the wiring on the old connector for the coolant level sensor at 5 mm from the connector (1).</p>
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Cut the replacement harness (from connector repair kit P/N 61 11 9 312 324) at 50 mm away from the taped portion of the harness (1). Crimp the new level sensor harness to the body harness with the provided cable connectors and heat shrinking hose (Refer to Repair Instruction 61 13 ... Butt connector for repairing a plug connection). Install the new coolant expansion tank.



\*Note: Check for proper connection of the lower coolant hose from the expansion tank when removing/replacing the tank (1). The coolant hose may become disconnected during repairs. The hose will contact the engine cooling fan if this hose remains disconnected from the bracket. (Air box removed for clarity.)

**Note:** This repair procedure involves draining a small quantity of coolant (approximately 2 liters); refill the drained quantity with new BMW Long-term Antifreeze/Coolant (50/50 mixture – 1 liter Antifreeze/1 liter water). Do not reuse the drained coolant.

**PARTS INFORMATION**

Part Number	Description	Quantity
17 13 7 609 469	Expansion tank	1
61 11 9 312 324	Connector repair kit	1
82 14 1 467 704	Antifreeze	See below

**LABEL INSTRUCTIONS**

	<p>This Service Action has been assigned code number <b>643</b>. After the vehicle has been checked and/or corrected, obtain a label (SD 92-420) and:</p> <ol style="list-style-type: none"> <li>Emboss your BMW center warranty number in the middle of the label (1);</li> <li>Punch out code number <b>643</b> (2), printed on the label; and</li> <li>Affix the label to the B-pillar as shown.</li> </ol>
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If the vehicle already has a label from a previous Service Action/Recall Campaign, affix the new label next to the old one. Do not affix one label on top of another one because a number from an underlying label could appear in the punched-out hole of the new label.

**WARRANTY INFORMATION**

The repair described in this bulletin is covered under warranty regardless of time or mileage.

Reimbursement for this Service Action will be via normal claim entry utilizing the following information:

<b>Defect Code:</b>	<b>00 17 64 01 00</b>	
<b>Labor Operation:</b>	<b>Labor Allowance:</b>	<b>Description:</b>
00 61 597	<b>NEW</b> Refer to KSD2	Replacing coolant expansion tank and wiring connector
and		
Sublet Code 4	See sublet reimbursement calculation below	Reimbursement for replacing the drained quantity of antifreeze/coolant (bulk container reference BMW P/N 82 14 1 467 704, one gallon container. Do not use this part number for claim submission.)

Labor operation 00 61 597 is a Plus labor operation.

**NEW** Sublet calculation: BMW antifreeze/coolant (1 gallon bulk container reference P/N 82 14 1 467 704) for approximately 1 liter that is needed for this repair (50/50 mixture) at dealer net plus handling. Enter this material

cost in sublet and itemize the amount in the claim comment section.

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