

**SB-10045302-1806**SI M17 05 12  
Cooling SystemsSeptember 2012  
Technical Service

This Service Information bulletin supersedes SI 17 05 12 dated July 2012.

**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: Retrofit of the Engine Coolant Temperature Sensor**

**MODEL**

R60 with automatic transmission (N16 or N18 engine)

**SITUATION**

Internal corrosion could form in the engine coolant temperature sensor. This corrosion leads to internal bridging of the contacts, which can cause an inaccurate engine temperature reading. This false reading could lead to difficulty in the engine starting and/or a "Service Engine Soon" lamp being illuminated.

**AFFECTED VEHICLES**

This Service Action involves R60 MINI Cooper/Cooper S vehicles with either N16 or N18 engines which were produced from 8/2010 to 3/2012.

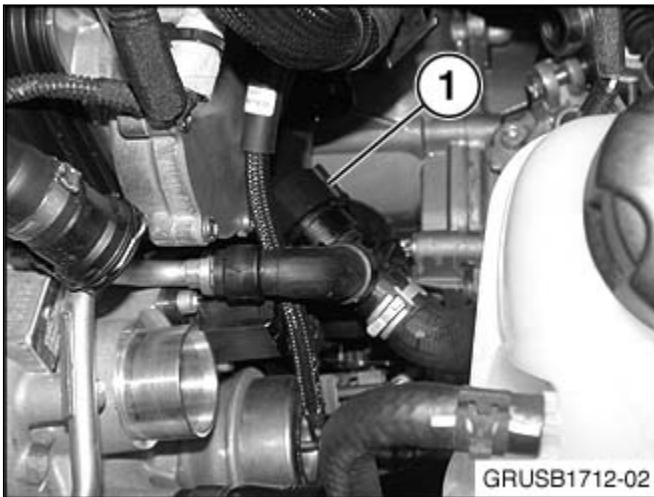
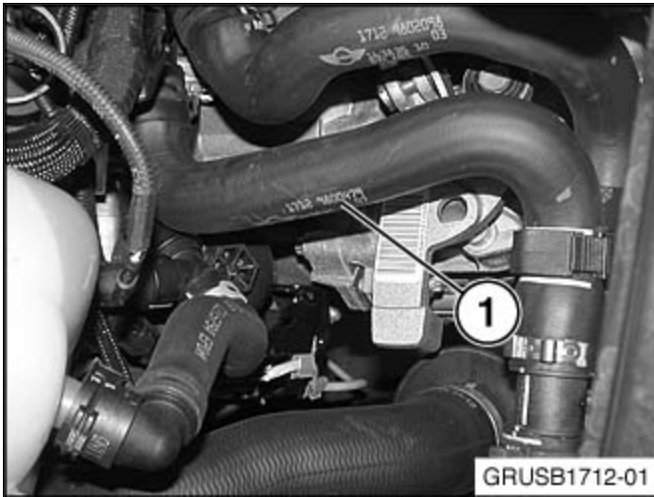
In order to determine whether a specific vehicle has had this Service Action completed or is affected by this Service Action, first check the B-pillar label for code **53**. If code number **53** has been punched out, the campaign has already been performed. If code number **53** has not been punched 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.

**PROCEDURE**

This procedure requires the replacement of the upper coolant hose with a modified hose that houses a new engine temperature sensor. An adapter harness needs to be fitted to the car to utilize this new sensor.

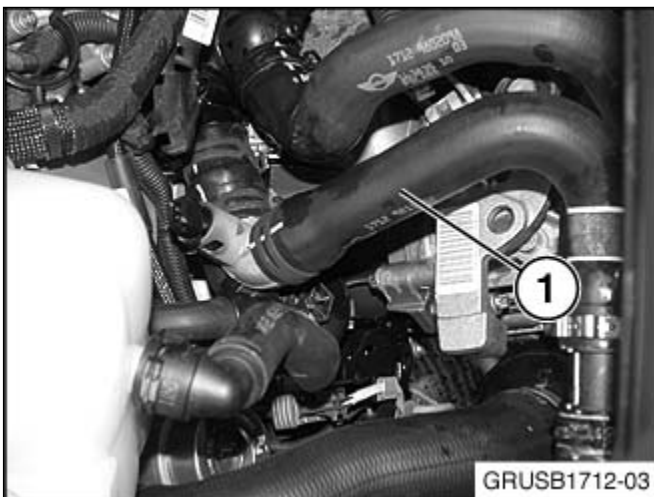
Remove the fresh air intake tube and the intake tube from the air box to the turbo to gain access to the coolant hose.

Remove the coolant hose (1). This hose will not be reused.



N18 engine only! Install spacer P/N 64 53 7 578 707 (1) on the coolant line as shown.

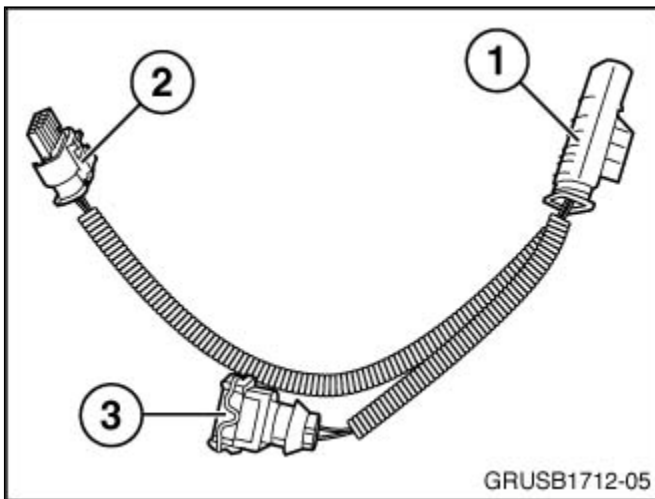
Note: The spacer needs to stay in this position when installing the new coolant hose P/N 17 12 9 811 351 (next step).



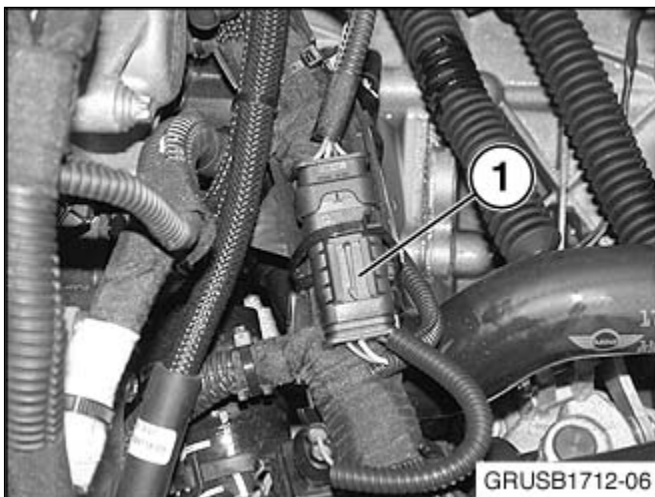
Install the new coolant hose with sensor P/N 17 12 9 811 351 (1).



Unplug connector X6279 from the engine thermostat (1).



Plug connector X6279 into the 4-pin male connector (1) of adapter harness P/N 12 51 7 647 200. Insert the 4-pin female connector (2) of the adapter harness into the engine thermostat. Plug the 2-pin female connector (3) from the adapter harness into the engine temperature sensor of hose P/N 17 12 9 811 351.



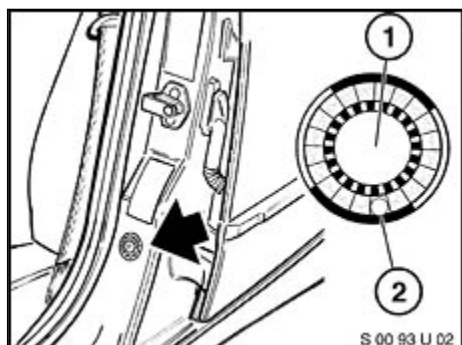
Secure the connector (1) with a cable tie to the engine wiring harness.

Reinstall the intake components and vent/refill the cooling system (Repair Instruction 17 00 039).

**Note:** This repair procedure involves draining a small quantity of coolant; refill the drained quantity with new MINI Long-term Antifreeze/Coolant (50/50 mixture). Do not reuse the drained coolant.

**PARTS INFORMATION**

| Part Number     | Description       | Quantity |
|-----------------|-------------------|----------|
| 12 51 7 647 200 | Adapter cable     | 1        |
| 64 53 7 578 707 | Spacer (N18 only) | 1        |
| 17 12 9 811 351 | Coolant hose      | 1        |
| 61 13 1 367 599 | Cable tie         | 1        |

**LABEL INSTRUCTIONS**

This Service Action has been assigned code number **53**. After the vehicle has been checked and/or corrected, obtain a label (MD20-040) and:

- A. Emboss your MINI dealer warranty number in the middle of the label (1);
- B. Punch out code number **53** (2), printed on the label; and
- C. Affix the label to the B-pillar as shown.

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:

**Defect Code:** 00 17 51 01 00

**Labor Operation:**

**Labor Allowance:**

**Description:**

**NEW** 00 60 919

8 FRU (N18)  
9 FRU (N16)

Replace the coolant line (hose) and connect the adapter cable.

Sublet Code 4

See sublet reimbursement calculation below

Reimbursement for replacing the drained quantity of antifreeze/coolant (bulk container reference P/N 82 14 0 031 133, one gallon container. Do not use this part number for claim submission).

**NEW** Labor operation code 00 60 919 is a Plus labor operation.

Sublet calculation: MINI antifreeze/coolant (bulk container reference P/N 82 14 0 031 133 only) - partial refill /used quantity (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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