



This Service Information bulletin supersedes SI M17 08 12 dated **January 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: Retrofit of the Engine Coolant Temperature Sensor

MODEL

R55

R56

R57

R58

All with **automatic transmission** and either the N16 or N18 engine

SITUATION

NEW Internal corrosion could form in the engine coolant temperature sensor which is integrated into the thermostat housing (not replaceable). 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 or a "Service Engine Soon" lamp being illuminated.

AFFECTED VEHICLES

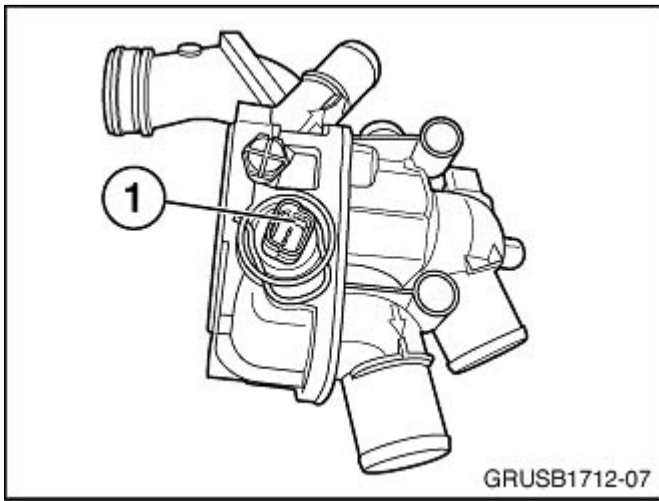
This Service Action involves R55, R56, R57 and R58 MINI Cooper/Cooper S vehicles with the N16 or N18 engine which were produced from 8/2010 to 3/2012.

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.

NEW PROCEDURE

First perform a preliminary check on the N16 Engine: Check for the installation of an updated thermostat (P/N 11 53 7 534 521). This updated thermostat with an improved engine temperature sensor is available, and may have been installed during a previous repair.

	Checking for the updated thermostat: The P/N 11 53 7 534 521 thermostat has a replaceable engine temperature
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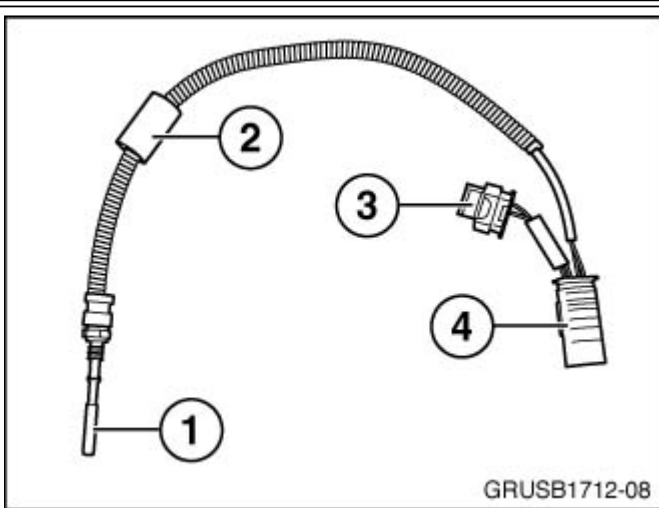


sensor (1).

Note: If this vehicle is also in for a repair which requires replacing the engine harness, do not continue with the procedure below. Engine harness replacement will use a different style of thermostat (P/N 11 53 7 534 521). Claim the labor operation “Check for 11 53 7 534 521 thermostat installation” in the Warranty Information section of this bulletin and affix the Service Action label to the B-pillar.

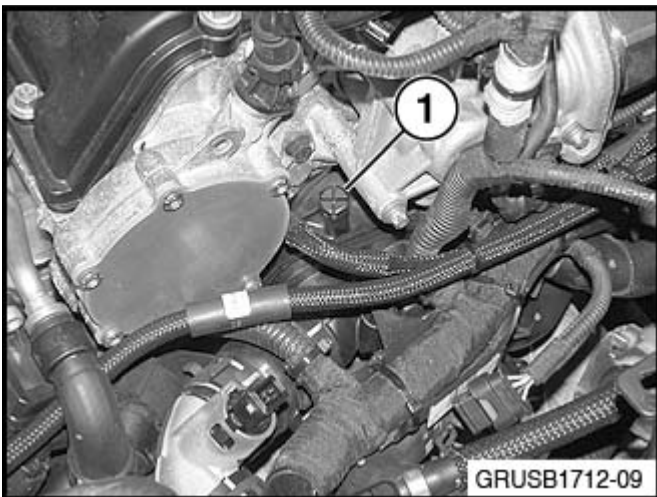
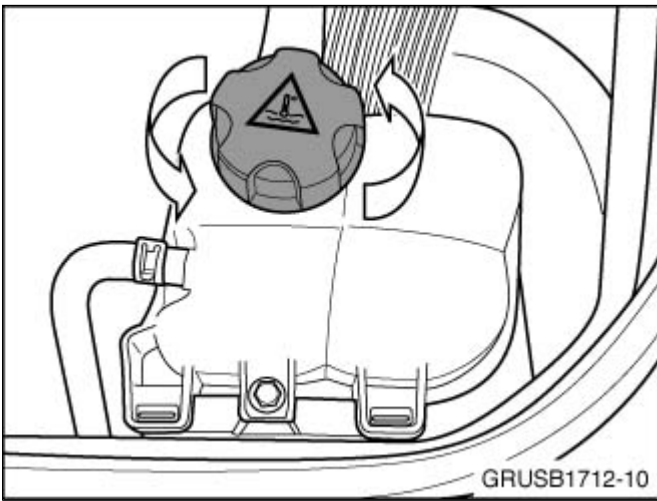
Perform the following procedure for N18 and N16 engines that do not have the P/N 11 53 7 534 521 thermostat:

Remove the fresh air intake tube and the charge air intake tube from the air box to the turbo to gain access to the engine harness at the thermostat.

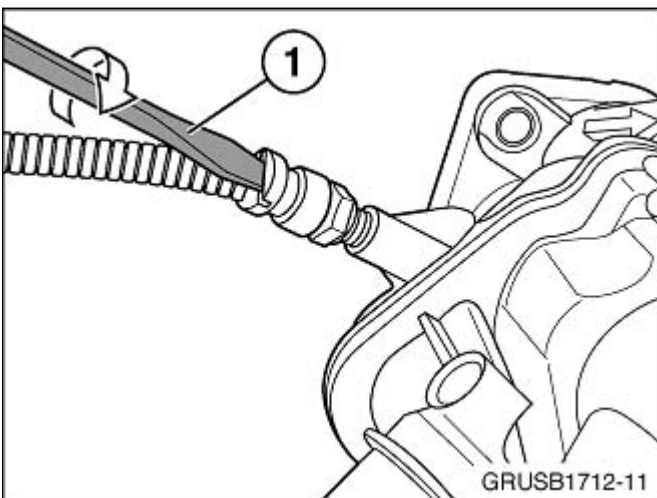


The improved sensor (P/N 13 62 8 603 908) includes the temperature probe (1) and insulating sleeve (2), a two-pin female connector (3) for the map thermostat, and a four-pin connector (4) for the engine harness.

Relieve the coolant pressure by removing the reservoir cap, and then re-tighten.

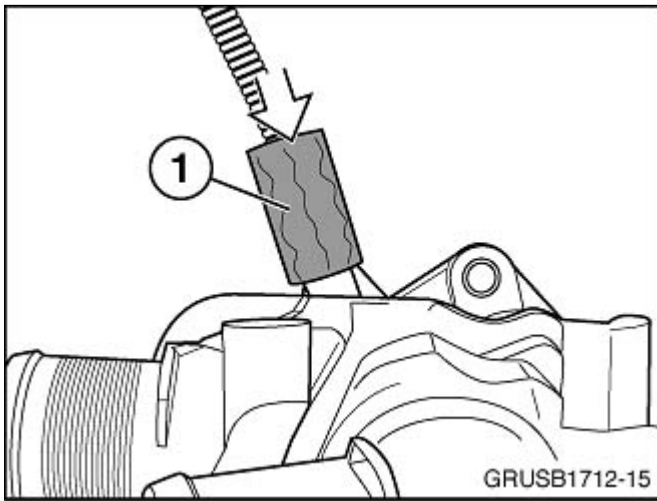


Remove the bleeder screw (1) from the thermostat. This screw will not be reused.

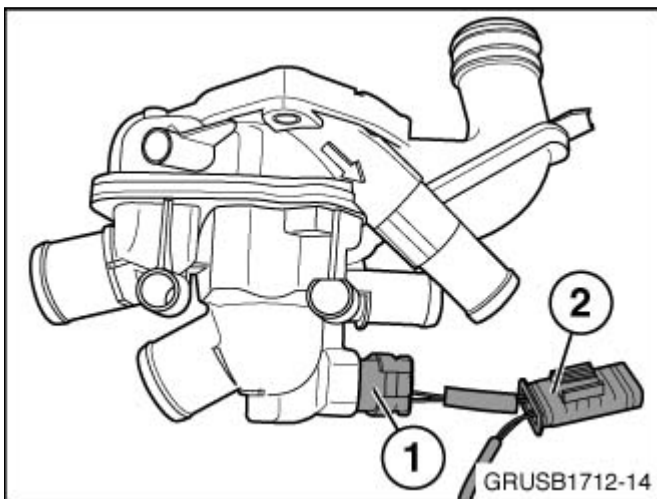


The back of the temperature sensor is slotted to accept a bladed screwdriver (1). Install the sensor into the bleeder screw hole, and torque to 2Nm.

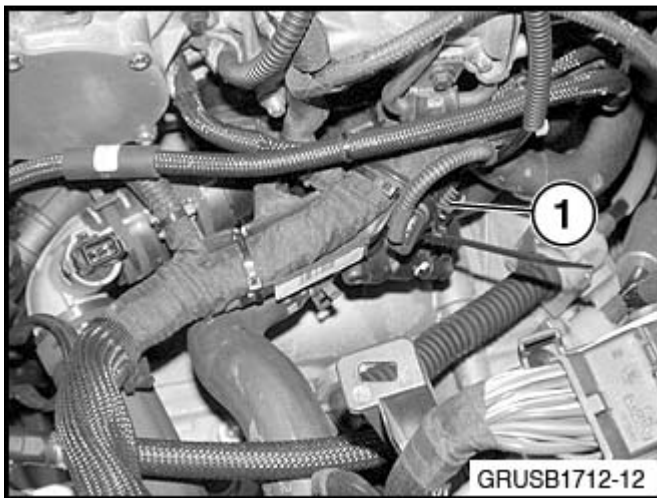
Slide insulating sleeve (1) onto the temperature sensor. The sleeve must



completely cover the sensor.

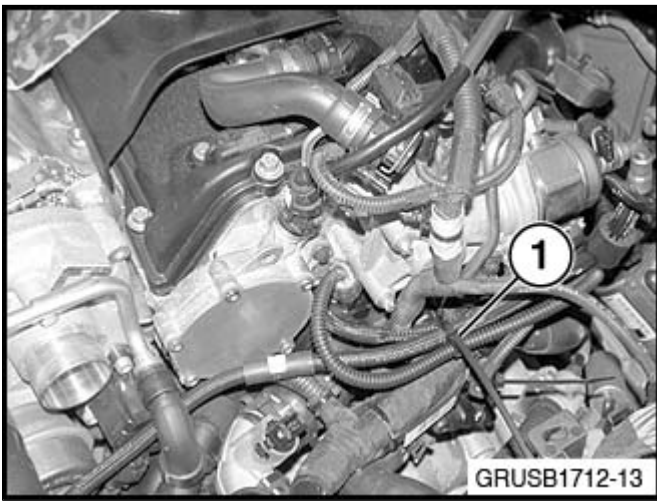


Install the two-pin female connector (1) into the thermostat and the four-pin male connector (2) into the engine wiring harness.



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

Secure the wiring from the temperature sensor (1) with a cable tie.



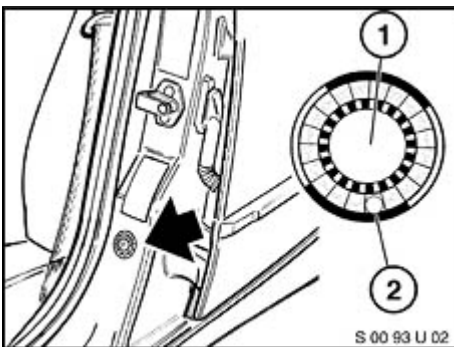
Reinstall the intake components and vent/refill the cooling system (Repair Instruction 17 00 039).

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.

NEW PARTS INFORMATION

Part Number	Description	Quantity
13 62 8 603 908	Temperature sensor	1
61 13 8 383 722	Cable tie	2

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's 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.

NEW 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 56 01 00	
Labor Operation:	Labor Allowance:	Description:

00 61 518	Refer to KSD2	Check for the P/N 11 53 7 534 521 thermostat installation; no repair is necessary.
or		
00 61 570	Refer to KSD2	Install coolant temperature sensor
and		
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).

Labor operation code 00 61 570 is a Plus labor operation.

Refer to KSD2 for the corresponding flat rate unit (FRU) allowance. Enter the Chassis Number, which consists of the last 7 digits of the Vehicle Identification Number (VIN). Click on the "Search" button, and then enter the applicable flat rate labor operation in the FR code field.

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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