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March 2019 **Technical Service**

CHECK CONTROL MESSAGE "TOP UP COOLANT" (I12)

New information provided by this revision is preceded by this symbol vipartile.

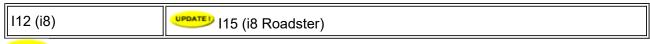
This Service Information bulletin replaces SI B17 03 18 dated June 2018

What's New:

i8 Roadster added

Software level for repair has been updated

MODEL



Vehicles produced to November 2018

SITUATION

The top up coolant message is displayed in the central display (CC message ID 166). When checking the cooling system there are no leaks found and the expansion tank is filled to the proper level.

CAUSE

- 1. BDC software error
- 2. Poor contact in the electrical connector at the coolant level sensor in the expansion tank

PROCEDURE 1

Check the current I-level of the vehicle. If the I-level is lower than I001-18-11-530, reprogram and code the vehicle with the latest version of ISTA 4.

NOTE: No programming is necessary if the I-level is 1001-18-11-530 or higher. If no programming is necessary continue to Procedure 2.

Note that ISTA will automatically reprogram and code all programmable control modules that do not have the latest software.

Always connect a BMW-approved battery charger/power supply (SIB04 23 10).

Continue to Procedure 2.

PROCEDURE 2

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Replace the expansion tank and plug connection (1):

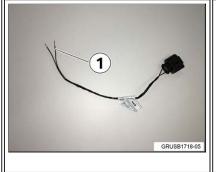
Follow Repair Instruction 17 11 100 Remove and install/replace coolant expansion tank (high-temperature cooling system) (I12).



Once the expansion tank is removed, Remove the protective tape (1) approximately 4 inches away from the connector and cut the connector off the harness (2)



The repair harness (PN 61 11 9 312 324) comes with two spice terminals and two heat shrink sections.



Cut back approximately 8 - 10 inches of the repair harness after the connector for coolant level switch. **NOTE:** The repair kit has enough wire to connect the coolant level sensor to the BDC. Only 8 - 10 inches of wire are needed for this repair.

Follow Repair Instruction **61 13** ... **Butt connector for repairing a plug connection** for installing and crimping the repair harness to the vehicles harness (instructions attached).

Complete the installation of the new coolant expansion tank.

PARTS INFORMATION

| Part Number | Description | Quantity |
|-------------|-------------|----------|
| | | |

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| 17 13 7 640 831 | Coolant expansion tank | 1 |
|-----------------|------------------------|-----------|
| 61 11 9 312 324 | Repair cable kit | 1 |
| | | |
| Bulk Material | | |
| 82 14 1 467 704 | Antifreeze | As needed |

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: | 6131271400 | |
|--------------|------------|--|
| 20.000 0000. | | |

Procedure 1: If the vehicle. I-level is at 1001-16-03-501 or lower

| Labor Operation: | Labor Allowance: | Description: |
|------------------|------------------|---|
| 00 00 006 | Refer to AIR | Performing vehicle test (with vehicle diagnosis system checking faults) (Main work) |
| Or: | | |
| 00 00 556 | Refer to AIR | Performing vehicle (with vehicle diagnosis system checking faults) (Plus work) |
| And: | | |
| 61 21 528 | Refer to AIR | Connect an approved battery charger/power supply (indicated in KSD2 as Charging battery |
| And: | | |
| 61 25 910 | Refer to AIR | Recharging high-voltage battery unit (to high voltage charging socket) |
| And: | | |
| 61 00 730 | Refer to AIR | Programming/encoding control unit(s) |

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. Only **one Main** labor (work) code is claimable per repair visit.

Refer to AIR for the corresponding flat rate unit (FRU) allowances.

During the same workshop visit, if a vehicle also requires another Technical Campaign or repair that also includes programming and encoding the control units, the programming procedure may only be invoiced one time.

Vehicle Programming and Encoding

- A. The programming procedure automatically reprograms and encodes all vehicle control modules which do not have the latest software i-level. If one or more control module failures occur during this programming procedure:
 - Please claim this consequential control module-related repair work under the defect code listed in this bulletin with the applicable KSD2/AIR labor operations.

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Please explain this additional work (The why and what) on the repair order and in the claim comments section.

- B. For control module failures that occurred prior to performing this programming procedure:
 - When covered under an applicable limited warranty, claim this control module-related repair work using the applicable defect code and labor operations (including diagnosis) in KSD2/AIR.

And/or:

Procedure 2: Replace expansion tank and plug connection

| Labor Operation: | Labor Allowance: | Description: |
|------------------|------------------|--|
| 17 00 009 | Refer to AIR | Checking the cooling system for watertightness with special tool (with tester) (Main work) |
| Or: | | |
| 17 00 509 | Refer to AIR | Checking the cooling system for watertightness with special tool (with tester) (Plus work) |
| And: | | |
| 17 11 550 | Refer to AIR | Removing and installing or replacing coolant expansion tank |
| And: | | |
| 17 99 000 | 3 FRU | Work time to replace connector for coolant level switch |

If you are using a Main labor code for another repair, use the Plus code labor operation 17 00 009 instead of 17 00 509. Only **one Main** labor (work) code is claimable per repair visit.

Refer to AIR for the corresponding flat rate unit (FRU) allowances.

Work time labor operation code 17 99 000 is not considered a Main labor operation. Also, since the work time FRU allowance to be claimed is specified, a separate punch time is not required. However, it still requires an explanation on the repair order and in the claim comments section.

And:

Procedure 2: Sublet Bulk Material

| Sublet Code 4 | | Reimbursement for the repair-related bulk materials (Do not use part numbers for claim submission) |
|---------------|--|--|
|---------------|--|--|

Sublet reimbursement calculation for claiming the applicable repair-related bulk material (BMW part number) is at the dealer net price for the quantity used plus your center's handling.

BMW Antifreeze/Coolant: Claim for the amount that is needed to replace what was drained with a 50/50 coolant/water solution.

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

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ATTACHMENTS

View PDF attachment 61 13 Butt connector for repairing a plug connection.

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BMW Group - AIR: 2018-06-07 / 15:48

Dealer: -/-Model: i8

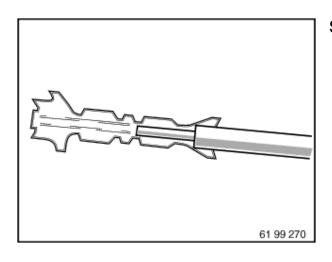
Development code: I12 Model code: 2Z43 Lead type: 2Z43 Order number: -

Repair instruction

Butt connector for repairing a plug connection

REP-REP-RAF0161-6113STOSSVERBINDER - V.24

61 13 ... Butt connector for repairing a plug connection



Special tools required:

- 61 0 300
- 61 4 340
- 61 0 240

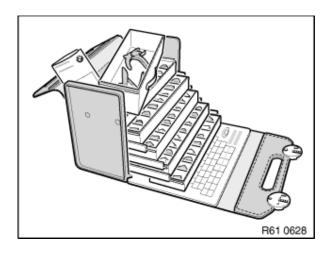


Important:

- Identify cause of damage (e.g. sharp-edged body parts, faulty electrical loads, clamped mechanisms, corrosion caused by ingress of water, etc.).
- 2. Reading out the fault memory
- 3. Eliminate cause of damage.
- 4. Disconnect battery negative terminal
- 5. Make sure that, according to circuit diagram, no safety-related systems (e.g. ABS, active rear-axle

kinematics, airbags, etc.) are affected. Otherwise replace faulty wiring harness or use repair cable (sourcing reference: BMW Parts Department)

- 6. Carry out function test and read out fault memories again
- 7. Eliminate new faults if applicable and clear fault memories



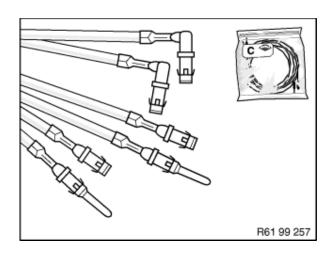
Note:

The repair product range IV for vehicle electrical system contains the required special tools and individual parts for retrofitting and repair work with the aid of fan connectors.

The case can no longer be ordered. Order individual parts for wiring harness repair through BMW Parts Department.

Refer to Service Information:

SI 02 04 07 341

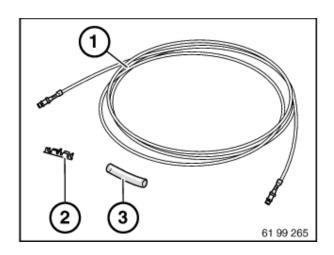


Choose repair kit.

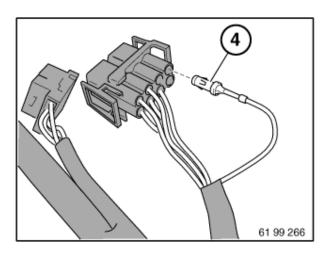
Example: Repair kit, circular connector system D 2.5.

Remove following parts:

(1) Pre-packaged end of cable with requisite wire cross-section



- (2) Crimp connector for selected wire crosssection
- (3) Shrink-fit hose

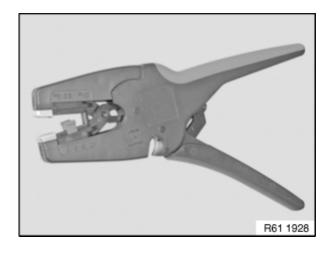


Open secondary lock on housing.

Mark damaged contact (4) with socket number of housing and press it out of housing using appropriate special tool contained in special tool set 61 0 300).

See repair instructions

Notes for opening contacts and locks of different plug contact systems.



Important:

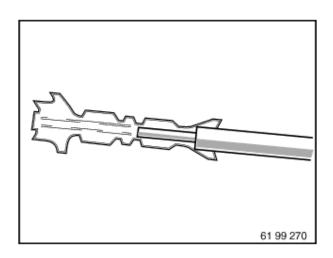
- Check maximum length of repair cable
- If more than one wire is to be repaired, the individual interfaces must be offset so that the wiring harness is not too thick at the repaired point.

Adhere to following procedure:

- Cut off wire with faulty contact at point which is easily accessible
- Strip off insulation from end of wire at wiring harness end
- Cut preassembled wire end to length and strip off insulation

Refer also to repair instruction:

Cutting to length and stripping off insulation from cables



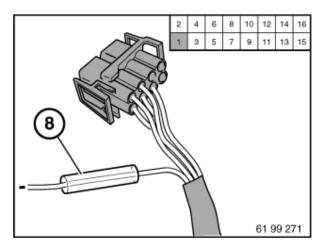
Crimp butt connector on preassembled wire end.

Special tools:

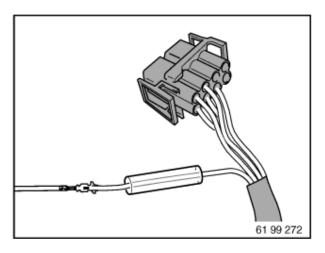
- 61 4 340 (0.35 2.5 sq mm)
- 61 0 240 (4.0 6.0 sq mm)

See repair instructions

Crimping on stop parts

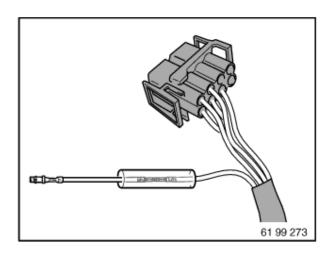


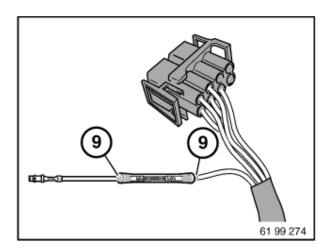
Push shrink-fit hose (8) onto free wire end.



Crimp unused wire end to butt connector.

Pull shrink-on sleeve over butt connector.





Important:

Do not combustion shrink-on sleeve.

With hot air blower, shrink the shrink-on sleeve on both sides (9) of shrink-fit hose until glue emerges uniformly all round.

Insert contact in housing.

Close secondary lock on housing.