

SB-10058472-7762



SI B65 07 15
Audio, Navigation, Monitors, Alarms, SRS

April 2015
Technical Service

SUBJECT

Airbag Warning Light ON: Fault 930BE8, High-voltage System Shutdown

MODEL

I01 (i3 REx)

I12 (i8)

SITUATION

The airbag warning light in the instrument cluster is on, or the check control message (CCM) “Restraint system faulty” is displayed.

The advance crash safety module (ACSM4I) has fault code 930BE8 “High-voltage system switch-off Range extender Electrical Machine Electronics (REME)/battery management electronics: Resistance too high” stored.

CAUSE

A sporadically poor connection causes high resistance in the airbag ignition circuit.

CORRECTION

- Refer to the test plan recommendation to replace the engine harness.
- Refer to the test recommendation to repair the poor connection at the REME and ACSM4I circuit.

PROCEDURE

Warning!

Only properly trained personnel, who have passed all applicable technical training courses, should perform any maintenance or repairs on any Hybrid or Electric Vehicle. Work performed by unqualified persons may result in severe injury or damage to the vehicle. Additional information may be found in REP 61 00... Observe safety instructions when handling electric vehicles.

1. Diagnose the vehicle with ISTA. Follow the test plan ABL-DIT-Ignition circuits, or follow this path: *Function Structure / 03 Body / Safety functions / Ignition circuits*. The test plan is for any airbag ignition circuits. The resistance reading will be displayed and shows OK (sporadic fault).
2. The following this question should appear in ISTA: “Has the line between the last intermediate connector and the range extender electric machine (REME) already been replaced?” Follow steps 3 and 4.
3. Review the repair history and if the answer is NO, the engine harness needs to be replaced.
4. Follow the procedure described in the attachment SI B65 03 15_I01_Replace_Engine_harness.pdf.

The test recommendation is for repairing the connectors. Follow the next steps:

5. Refer to ISTA for repairing the connectors; review the wiring diagram SP0000056895 and check the connections. Check A11*1B, X558*2B, X13*2B, and A274*1B for this circuit, or refer to the wiring diagram.
6. Follow the procedure described in the attachment SI B65 03 15_I01_Repair_Procedure.pdf to determine the locations for control units and connectors.

For i8 vehicles that have the same fault, perform the following steps:

1. Refer to the ISTA test plan recommendation. Review wiring diagram SP0000057786 and check the connector and connections. Check A11*2B, X558*6B, and A270*1B for this circuit, or refer to the wiring diagram.
2. Follow the procedure described in attachment SI B65 03 15_I12_Repair_Procedure.pdf to determine the locations for control units and connectors.

PARTS INFORMATION

The engine harness is requested by the test plan recommendation and review repair history.

| Part Number | Description | Quantity |
|-----------------|-------------------------------|-------------|
| 12 51 7 636 973 | Wiring harness for motor REME | If needed 1 |

WARRANTY INFORMATION

Replace the engine harness only if recommended by the test plan.

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: | 12 51 12 81 00 | |
| | | |
| Labor Operation: | Labor Allowance: | Description: |
| 00 00 006 | Refer to KSD2 | Performing “vehicle test” (with vehicle diagnosis system – checking faults) |
| And: | | |
| 61 21 528 | Refer to KSD2 | Connect an approved battery charger/power supply (indicated in KSD2 as “Charging battery”) |
| And, as necessary: | | |
| 61 00 006 | Work time (WT) | Performing vehicle diagnosis – test module |
| And: | | |
| 12 51 540 | Refer to KSD | Remove and install/replace wiring harness sections for range extender electrical machine electronics |

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

Refer to KSD2 for the corresponding flat rate unit (FRU) allowances.

Work time labor operation code 61 00 006 is not considered a Main labor operation. However, it does require an individual punch time and an explanation in the claim comments section.

And for the I01 (i3 REx):

Sublet - Materials

| | | |
|---------------|--|--|
| Sublet Code 4 | See sublet reimbursement calculation below | Reimbursement for replacing the drained quantity of antifreeze/coolant (Bulk container). Please do not use the BMW part number for claim submission. |
|---------------|--|--|

Sublet calculation: Antifreeze/coolant (Bulk container) refill quantity (50/50 mixture) at dealer net plus handling.

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

Other Repairs

If performing ISTA diagnostics and related test plans results in other eligible and covered work, claim this work with the applicable defect code and labor operations listed in KSD2.

ATTACHMENTS

View PDF attachment [B650715 I01 Repair Procedure](#).

View PDF attachment [B650715 I01 Replace Engine Harness](#).

View PDF attachment [B650715 I12 Repair Procedure](#).

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