



## **SUBJECT**

### **Complete Power Failure of the Vehicle's Electrical System**

## **MODEL**

E82, E88 (1 Series)

E89 (Z4)

E90, E91, E92, E93 (3 Series)

Vehicles produced from 2/28/2007 to 5/30/2011

## **SITUATION**

The vehicle electrical system fails completely and one or more of the following faults may occur:

- The vehicle fails to start.
- The central locking system fails to operate with the remote key.
- The key cannot be inserted into the key slot.
- Communication to the vehicle is not possible using ISTA (Integrated Technical Service Application).

## **CAUSE**

Over time, the positive battery cable connection at the front power distribution box loses connection.

## **PROCEDURE**

The situation described in this Service Information can also be attributed to a discharged battery. Before proceeding with this procedure, check that the battery is in operating condition by using the BMW battery tester.

1. Remove the front fuse box as per ISTA Repair Instructions REP 61 13 050, Removing and installing or replacing fuse box in passenger compartment (built after 3/2007).
2. Check for discoloration of the positive battery cable insulation where the cable connects to the fuse box. Refer to the attachment to this Service Information bulletin, which shows the affected area.
3. If discoloration is noted in the affected area, replace both the fuse box and the cable. The cable routes from the battery fuse box in the luggage compartment to the front fuse box along the main wiring harness, under the carpet on the right side of the vehicle interior. There are currently no repair instructions to replace this cable. Refer to ISTA Repair Instructions REP 51 47 315 and 51 47 440 for removing all the carpets in order to gain access to the harness. Route the new cable in the exact same way as the original cable. Refer to attachment.

REP 51 47 315 and 51 47 440 are for reference only, the full scope of these repair procedures do not apply (removing all seats and the center console as applicable) to the repair procedure outlined in this Service Information bulletin.

Note: The replacement cables listed in this Service Information have been improved to prevent this fault from occurring in the future.

**Please take particular care in removing and installing the replacement B+ battery cable that is contained in the main harness to avoid damaging other wiring.**

- If no discoloration is found on the cable insulation, proceed with standard troubleshooting to identify the voltage drop in the battery cable circuit.

**PARTS INFORMATION**

<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
Refer to ETK	Power distribution box, front	1
61 12 9 269 909	B+ Repair Cable (E82, E88)	1
61 12 9 269 907	B+ Repair Cable (E90, E91, E92, E93)	1
61 12 9 269 914	B+ Repair Cable (E89)	1

**WARRANTY INFORMATION**

Covered under the terms of the BMW New Vehicle/SAV Limited Warranty.

**Defect Code: 61 12 02 79 00**

Please use and claim the applicable labor operations from sections 1 (all models), 2 and 3 (model-specific) listed below.

**1. All Listed Models: Labor Operations**

<b>Labor Operation:</b>	<b>Labor Allowance:</b>	<b>Description:</b>
61 20 005	Refer to KSD2	Checking battery with battery tester
61 13 551	Refer to KSD2	Replacing fuse box, interior
61 99 000	20 FRUs	Work time to replace the battery positive (B+) repair cable

**2. Seats: Labor Operations**

**Right Front Seat (All as applicable to the fitted seat option)**

<b>Labor Operation:</b>	<b>Labor Allowance:</b>	<b>Description:</b>
52 13 500	Refer to KSD2	Removing and installing right front basic seat
<b>or</b>		
52 14 500	Refer to KSD2	Removing and installing right front sport seat (Manual)

**or**

52 15 500	Refer to KSD2	Removing and installing right front sport seat (Manually Adjustable)
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**or**

52 16 500	Refer to KSD2	Removing and installing right front sport seat (Electrically Adjustable)
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### **Rear Seat Models**

#### **E90 (Sedan - as applicable to the fitted seats)**

<b>Labor Operation:</b>	<b>Labor Allowance:</b>	<b>Description:</b>
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52 24 510	Refer to KSD2	Removing and installing or replacing backrest for right rear seat
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**or**

52 26 515	Refer to KSD2	Removing and installing or replacing backrest right rear seat (Through-loading version)
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#### **E91 (Sports Wagon)**

<b>Labor Operation:</b>	<b>Labor Allowance:</b>	<b>Description:</b>
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52 26 515	Refer to KSD2	Removing and installing or replacing backrest right rear seat (Through-loading version)
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### **3. Model-Specific: Labor Operations**

#### **E82 (1 Series Coupe)**

<b>Labor Operation:</b>	<b>Labor Allowance:</b>	<b>Description:</b>
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51 43 500	Refer to KSD2	Removing and installing or replacing right rear side trim panel
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#### **E88 (1 Series Convertible)**

<b>Labor Operation:</b>	<b>Labor Allowance:</b>	<b>Description:</b>
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51 43 502	Refer to KSD2	Removing and installing or replacing right rear side trim panel
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#### **E89 (Z4)**

<b>Labor Operation:</b>	<b>Labor Allowance:</b>	<b>Description:</b>
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51 43 625      Refer to      Removing and installing or  
KSD2                              replacing right rear side trim  
panel (Bottom)

**E90 (3 Series - Sedan)**

**Labor                      Labor                      Description:**  
**Operation:              Allowance:**

51 43 650      Refer to      Removing and installing or  
KSD2                              replacing trim panel for right  
door pillar

**E91 (3 Series - Sports Wagon)**

**Labor                      Labor                      Description:**  
**Operation:              Allowance:**

51 43 650      Refer to      Removing and installing or  
KSD2                              replacing trim panel for right  
door pillar

**and**

51 43 780      Refer to      Removing and installing or  
KSD2                              replacing luggage  
compartment cover, right

**E92 and E93 (3 Series - Coupe and Convertible)**

**Labor                      Labor                      Description:**  
**Operation:              Allowance:**

51 43 502      Refer to      Removing and installing or  
KSD2                              replacing right rear side trim  
panel

Labor operation code 61 20 005 is a main labor operation, if you are using a main labor code for another repair; use the plus code labor operation 61 20 505 instead.

Only one main labor operation can be claimed per repair visit. All other labor operations on the same line or other lines must be claimed using plus code labor operations.

Even though labor operation code 61 99 000 ends in “000”; it has a designated FRU allowance, and as described above, it is not considered a main labor operation.

Please refer to the Warranty Policy and Procedures Manual regarding proper support, documentation and archiving required for claims, as applicable.

**ATTACHMENTS**

view PDF attachment [B610811 Attachment](#).