

November 2013 Technical Service

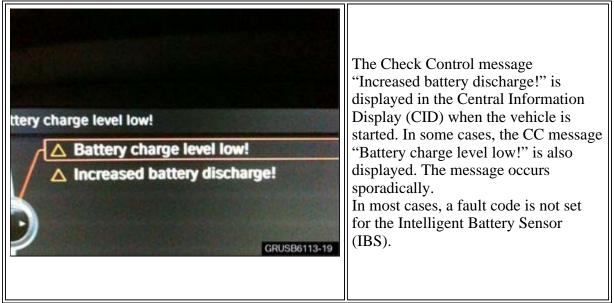
# SUBJECT

"Increased battery discharge!" CC Message upon Startup

# MODEL F01 F02 F07 F10 F12 F13 F25

Produced to April 2013

# SITUATION



## CAUSE

A software error in the Intelligent Battery Sensor causes an incorrect State of Charge (SoC) to be stored in the DME. The power management system then interprets this as a heavily discharged battery and informs the customer via a CC message. In reality, the battery does not have a problem.

## PROCEDURE

1. Diagnose the vehicle using ISTA 3.39 (introduced in September 2013) or later, and complete the "Energy diagnosis" test plan.

**Note:** When the ISTA system message displays: Battery voltage only "XX.XX" V. Please connect charger. Please note the displayed battery voltage reading in the repair order comments section.

- 2. If "IBS faulty" is listed in the results of the energy diagnosis test module screen, follow the test module recommendation, and replace the IBS sensor with the improved part listed below under "Parts Information." Refer to ISTA Repair Instruction 6112..."General information on intelligent battery sensor (IBS)."
- 3. If "IBS faulty" is **not** listed in the results of the energy diagnosis test module screen, diagnose all other most likely causes as listed in the test module until the energy diagnosis test plan is completed. Refer to <u>SI B61 13 05</u> for information about the energy diagnosis test plan. Refer to <u>SI B61 02 11</u> for information about advanced onboard battery diagnostics.

### **ADDITIONAL INFORMATION**

The revised energy diagnosis test module reads out the following data from the vehicle and determines if the IBS needs to be replaced:

- IBS software versions less than 8.20, or less than 9.28
- One of the six (one current and five days prior) SoC values is less than 10%
- The other five SoC values are greater than 70%

Note: All three conditions described above must be met in order for the Energy Diagnosis test module to recommend an IBS replacement.

The IBS should not be replaced unless it is recommended by the test module.

PARTS	INFORMATION	

Part Number	Description	Quantity
61 21 9 302 358	Battery cable, negative, IBS	1

### WARRANTY INFORMATION

Covered under the terms of the BMW New Vehicle/SAV Limited Warranty or the or the BMW Certified Pre-Owned Program.

Defect Code:	61 37 03 15 00	
Labor Operation:	Labor Allowance:	Description:
00 00 006	Refer to KSD	Performing "vehicle test" (with vehicle diagnosis system – checking faults)
and if necessary, also		
61 21 528	Refer to KSD	Charging battery

and		
61 20 502	Refer to KSD	Performing battery energy diagnosis
and		
61 12 513	Refer to KSD	Replacing battery negative cable

Labor operation code 00 00 006 is a Main labor operation. If you are using a Main labor code for another repair, use the Plus code labor operation 00 00 556 instead.

## **Other Repairs**

If performing ISTA diagnostics for the other "most likely causes" results with eligible and covered work, claim this work with the applicable defect code and labor operations listed in KSD2.

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