



SIB 61 16 22

2022-11-17

## DELIVERY STOP: HIGH-VOLTAGE BATTERY

This Service Information Bulletin (Revision 1) replaces SI B61 16 22 dated August 17, 2022.

### What's New:

- Cause, Correction, Procedure, Parts, Claim sections added

## MODEL

E-Series	Model Description	Production Date
I20	iX Sports Activity Vehicle (SAV)	April 29, 2022 – September 22, 2022

## AFFECTED VEHICLES

Vehicles which require this Campaign to be completed will show it as “Open” when checked either in AIR, the "Service Menu" of DCSnet (Dealer Communication System), ISPA Next or Warranty Vehicle Inquiry.

BMW AG has issued a Delivery Stop (effective August 17, 2022) on a small number of Model Year 2022 BMW iX SAV vehicles that were produced between April 29, 2022 to September 22, 2022.

**Do not deliver to a customer, a New, Certified Pre-Owned or Used vehicle subject to a Delivery Stop, until the vehicle is repaired. Do not use or sell replacement equipment/parts subject to a Delivery Stop.**

## SITUATION

The low voltage wiring harness plug connected to cell module to was manufactured without its insulation compound. This insulation layer is designed to protect the contact from environmental influences such as moisture or dirt contamination.

## CAUSE

A short circuit may form between the individual electrical contacts of the low voltage connector due to the presence of moisture or dirt contamination.

This may result in Check Control Message being displayed to the customer accompanied by a loss of power.

In rare cases, the fault can also lead to a shutdown of high-voltage system.

## CORRECTION

Removal and replacement of affected high-voltage cell modules.

## PROCEDURE

**Important Warning for Working on the High-Voltage (HV) systems on BMW Group vehicles:**

**Only properly trained personnel, who passed all applicable HV Technical Training Courses, should perform repairs which require disconnecting, or removal of High Voltage battery components on any Hybrid or Electric Vehicle. Work performed on High Voltage systems by unqualified persons may result in severe injury or damage to the vehicle. Additional safety information is found in Repair Instruction 61 00... “Observe safety instructions when handling electric vehicles”.**

### **Additional Information:**

**Scheduled Maintenance, or Quality Certification 1 (Pre-Delivery Inspection) on Electric or Hybrid vehicles does not require HV technical training.**

Prior to disconnecting, or the removal of any HV component, the HV system needs to be disabled and secured (by means of the HV Disconnect Switch) by a properly trained technician, who has a minimum HV Qualification level after completing the Technical Training Course ST1824 (Alternative Drive Part 1). Once the vehicle's HV system is disabled (the "Blitz" - lightning bolt icon displayed in instrument cluster, see below), a technician without HV Certification may remove a HV component (e.g., EH Heater, EKK Compressor, EME Control Unit, et.), except for the High Voltage Battery.



High Voltage Battery removal and rework can be performed ONLY by a HV Specialist Technician (certified by the Technical Training Course ST1825 – Alternative Drive Part 2), AND with a HV Battery Certification level corresponding to a specific Electric or Hybrid vehicle (e.g., to repair GEN4 battery of G05 PHEV, certification from Technical Training Course "ST2006 – SP44 HV Battery" is required).

Therefore, to perform this SIB 61 16 22 a GEN5 battery Certification is required from Technical Training Course "ST2205 Generation 5 High-voltage" class).

The steps below must be followed precisely:

1. Perform the **cell module read out** test plan in ISTA to determine the serial numbers and locations of the high-voltage cell modules installed in the vehicle.

Diagnostic path:

Vehicle management > Service function > Electric drive > High-voltage battery unit >

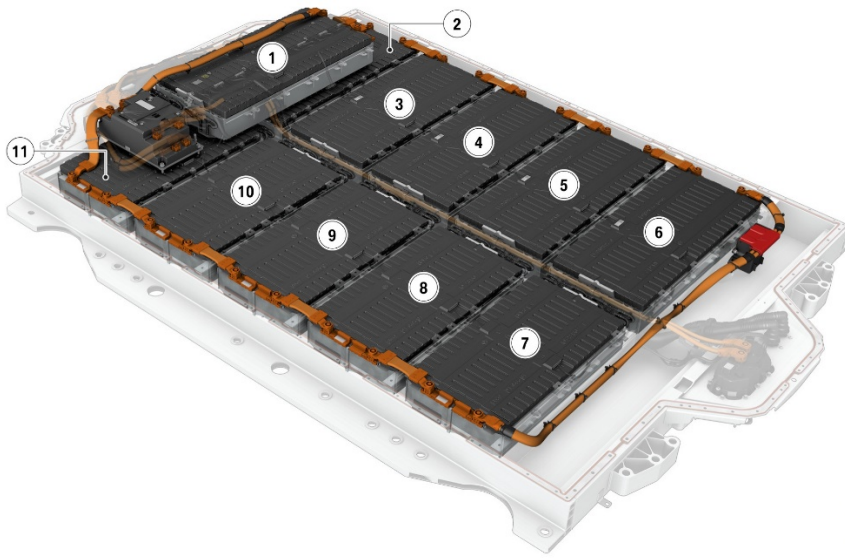
**High-voltage battery unit: Read out stored serial numbers ABL.**

**Submit a TSARA case titled "Gen 5 Cell module low voltage connector" for assistance in identifying the affected modules.**

**Please attach the cell module serial number read out to the TSARA case.**

2. Replace the defective high-voltage cell modules using repair instructions **61 27 703** to **61 27 723** depending on the affected cell module location.

i20 xDrive50/xDrive60 - SE10 HV Battery module locations shown below-



## PARTS INFORMATION

Only use and invoice the applicable part listed number below.

### Note:

Please order “as required” hardware depending on the cell module you are replacing.

Part Number	Description	Quantity
07 14 9487466	Screw (12x1.5x50 10.9)	18
61 27 9487465	Screw (12x1.5x100 10.9)	10
31 11 6899302	Multi-purpose bolt (10x45 ZNS3)	14
61 27 9487464	Screw	8
51 16 1881149	Expanding rivet	6
61 27 9468425	Screw	94
07 14 8838288	Sealing screw (M8x28)	Order as required
61 27 9468423	Housing seal	1
61 27 9454855	Screw	Order as required
33 32 6775040	Hex bolt with washer (M14x1.5x148)	2
61 27 9893951	Screw (M8GFX46-10.9)	Order as required
61 27 9454854	Screw	Order as required
61 27 9893948	ASA combination bolt (M8x84-10.9)	Order as required
Depending on the availability		
61 27 8846469	Double cell module for high-voltage battery	Up to 5
61 27 8846470	Double cell module for high-voltage battery	Up to 6
Or:		
61 27 8838260	Double cell module for high-voltage battery	Up to 5
61 27 8838259	Double cell module for high-voltage battery	Up to 6

### Part Retention

The parts replaced to perform and submit for this Recall repair procedure are the property of BMW NA.

Your center is responsible for the proper identification, storage, and documentation of these parts. They must be held in a secure retention area until notification of claim payment is made by BMW NA through DCSnet.

If these replaced parts are requested to be returned, a corresponding DCSnet Part Return tag will be generated.

Refer to Aftersales Business Development & Marketing Bulletin #: B-2-0719-0603 for the high-voltage battery part return information that applies to this Service Action.

Please DO NOT return the HV battery modules directly to the WPRC. Your center is responsible to follow any special rules and regulations that apply to returning these parts to BMW as instructed in the ABDM bulletin.

For more information, refer to CenterNet: Menu>BMW>Aftersales>Business Development & Marketing Portal>Batteries.

Any return requested parts that are not received by the within 60 days of the claim credit date may be subject to debit.

## **CLAIM INFORMATION**

Reimbursement for this Action will be via normal claim entry utilizing the relevant work package, the additional work labor for the applicable FRU allowances, and the part numbers listed above that apply.

<b>Plus work (+)</b>	Completion before the first vehicle delivery to a customer or the vehicle is already in the workshop
<b>Main work</b>	The vehicle arrives at your center and this Action shows open (No other Main work will be performed or claimed during this workshop visit)

<b>Defect Code:</b>	<b>0061040700</b>	<b>I20 Plug connector seal (replace cell module)</b>
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Refer to the below for the corresponding flat rate unit (FRU) allowances.

<b>Work Pkg</b>	<b>Labor Operation</b>	<b>Description</b>	<b>Labor Allowance</b>
# 1	00 73 541	Removing and installing high-voltage battery unit, and removing/installing lid for high-voltage battery unit (Includes 61 27 900 - High-voltage battery unit final test, draining and topping up the coolant circuit) <b>(Plus work)</b>	75 FRU
Or:			
# 2	00 73 012	Removing and installing high-voltage battery unit, and removing/installing lid for high-voltage battery unit (Includes 61 27 900 - High-voltage battery unit final test, draining and topping up the coolant circuit) <b>(Main work)</b>	76 FRU

Only one of the flat rate labor operation codes listed above can be used for claim submission and reimbursement. Also, only one Main work flat rate labor operation code can be claimed per workshop visit.

**Additional Work with Labor Operation 00 73 541 (WP 1) or 00 73 012 (WP 2)**

**Note:** For the following, claim labor operation **00 73 542** one-time only for the applicable total FRU allowance that applies.

Itemize the total work time (WT) FRU allowed claimed on the RO and in the claim comments.

Labor Operation	Labor Description	Labor Allowance
00 73 542	<b>Only when the test module “High-voltage battery unit: Read out stored serial numbers” is not available:</b> Please submit a TSARA case titled “Gen 5 HV Battery cell module ID process” for assistance. Perform Vehicle Test (Includes 00 00 556/61 21 528) and run the HV battery discharge procedure	7 FRU

Then, after the test module becomes available for the vehicle being repaired:

Labor Operation	Labor Description	Labor Allowance
00 73 542	Perform the cell module read out test plan in ISTA to determine the serial numbers and locations of the high-voltage cell modules affected by this Action (Includes 00 00 556/61 21 528) and run the HV battery discharge procedure	7 FRU

And, as instructed above, and as applicable with the repair below that applies:

<b>A. 00 73 542 – Cell Module 1 Only</b>	
Labor Description	Labor Allowance
Replacing <b>cell module 1</b>	11 FRU
And:	
Additional work with pressure test cooling system high-voltage battery unit Associated work (coolant drained) (to high-voltage battery unit) <b>(One-time)</b>	4 FRU
<b>Total labor allowance (A)</b>	15 FRU

Or:

<b>B. 00 73 542 – Cell Modules 1, 2, 11, 3, 10</b>	
Labor Description	Labor Allowance
Replacing <b>cell module 1</b>	11 FRU
Or:	
Removing and installing <b>cell module 1</b>	<b>10 FRU</b>

And:

Labor Description (Additional pre-work)	Labor Allowance
Preliminary work of removing and installing the retaining frame for cell module 1 and SME (Associated work) <b>(Cell modules 2, 3 10 and 11) (One-time)</b>	9 FRU

And:

Labor Description - Replace	Labor Allowance	Labor Description - Replace	Labor Allowance	Both
<b>Cell module 2</b>	7 FRU	<b>Cell module 11</b>	7 FRU	14 FRU
And/or:				

<b>Cell module 3</b>	9 FRU	<b>Cell module 10</b>	9 FRU	18 FRU
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And:

<b>Labor Description (Additional after work)</b>	<b>Labor Allowance</b>
Additional work with pressure test cooling system high-voltage battery unit Associated work (coolant drained) (to high-voltage battery unit) <b>(One-time)</b>	4 FRU
<b>Total labor allowance range (B)</b>	30 FRU to 58 FRU

Or:

<b>C. 00 73 542 – Cell Modules 4, 9, 5, 8, 6, 7</b>				
<b>Labor Description - Replace</b>	<b>Labor Allowance</b>	<b>Labor Description - Replace</b>	<b>Labor Allowance</b>	<b>Both</b>
<b>Cell module 4</b>	14 FRU	<b>Cell module 9</b>	14 FRU	28 FRU
And/or:				
<b>Cell module 5</b>	15 FRU	<b>Cell module 8</b>	14 FRU	29 FRU
And/or:				
<b>Cell module 6</b>	14 FRU	<b>Cell module 7</b>	14 FRU	28 FRU

And:

<b>Labor Description (Additional after work)</b>	<b>Labor Allowance</b>
Additional work with pressure test cooling system high-voltage battery unit Associated work (coolant drained) (to high-voltage battery unit) <b>(One-time)</b>	4 FRU
<b>Total labor allowance range (C)</b>	18 FRU to 89 FRU

Or:

<b>D. 00 73 542 – B and C, up to 10 Cell Modules as applicable</b>	
<b>Labor Description</b>	<b>Labor Allowance</b>
Claim the sum of the FRU amounts that apply to the cell modules replaced along with the required additional after work (4 FRU for the Pressure Test, <b>one-time</b> ).	As noted (D)

Or:

<b>E. 00 73 542 – All Cell Modules (11)</b>	
<b>Labor Description</b>	<b>Labor Allowance</b>
Replacing all cell modules	104 FRU
And:	
Additional work with pressure test cooling system high-voltage battery unit Associated work (coolant drained) (to high-voltage battery unit)	4 FRU
<b>Total labor allowance (E)</b>	108 FRU

**Claim Repair Comments**

Only reference this SIB number, the work package (Pkg) number performed, and cell modules replaced by their reference number in the RO technician notes and the claim comments (For example: B61 15 22 WP 1, Cell modules 2, 4, 5), unless otherwise required by State law.

**Sublet – Bulk Materials (RO and Claim Comments Required)**

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<b>Sublet Code 4</b>	Up to \$100.00	Reimbursement for the repair-related bulk materials (Do not use the BMW part numbers for claim submission)
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Sublet reimbursement calculation for claiming the applicable repair-related bulk materials (BMW part numbers) is at the dealer net price amount for the quantities used plus your center’s handling.

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

**Alternative Mobility Solution (AMS) for Vehicle Owners (RO and Claim Comments Required)**

This Action repair qualifies for Alternative Mobility Solution (AMS) expense reimbursement, claim this item under the Defect Code noted above as follows:

Sublet Code 2 - Itemize the AMS sublet amount on the repair order and in the claim comment section.

Please refer to [SI B01 29 16](#) for additional information.

**FEEDBACK REGARDING THIS BULLETIN**

Technical Feedback	To submit feedback for the technical topics of this bulletin: Submit your feedback in the rating box at the top of this bulletin
Warranty Feedback	To submit feedback for the CLAIMS section of this bulletin: Submit an IDS ticket to the Warranty Department, or use the chat available in the Warranty Documentation Portal
Parts Feedback	To submit feedback for the PARTS section of this bulletin: Submit an IDS ticket to the Parts Department

Supporting Materials

[picture\\_as\\_pdf B611622 C\\_2\\_0322\\_0301\\_HV\\_Battery\\_Recall\\_Training.pdf](#)