

**SERVICE ACTION: REPLACING THE CELL MODULES OF THE HIGH-VOLTAGE BATTERY**

This Service Information Bulletin (Revision 1) replaces SI B61 02 22 **dated February, 2022.**

**What's New:**

- Parts Section (Cell module Part Numbers updated)

Please perform the procedure outlined in this Service Information on all affected vehicles before customer delivery. In the event the customer has already taken delivery of the vehicle, please perform the procedure the next time the vehicle is in the shop.

**MODEL**

<b>E-Series</b>	<b>Model Description</b>
G05	X5 xDrive45e Sports Activity Vehicle
G12	745e xDrive Sedan
G20	330e Sedan
G30	530e Sedan

**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.

**SITUATION**

BMW AG is conducting a Voluntary Service Action on certain Model Year 2019-2020 BMW Plug-In Hybrid-Electric (PHEV) vehicles that were produced between March 25, 2019, and October 17, 2020.

Analyses of transmitted teleservice data indicate abnormalities in the "balancing" of the cells within one or more of the high-voltage battery cell modules. This could possibly cause a loss of performance of the corresponding modules, such as faster ageing, shorter range, or possible operating failure.

**CAUSE**

There are possible abnormalities in the "balancing" of the cells within one or more cell modules.

**CORRECTION**

Replacement of all high-voltage battery 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).

Replace all high-voltage cell modules per **REP 61 27 611** or **REP 61 27 650** (vehicle dependent).

## PARTS INFORMATION

Only use and invoice the part numbers below that apply.

Performing a part number look-up in ETK (EPC) by VIN or model in place of using/invoicing the following part numbers may result with the wrong part numbers being invoiced and installed, this could delay the payment of the claim

### Parts for G05-

Part Number for Technical Campaign	Description	Quantity
61 27 8 843 413 Or 61 27 8 855 567	High-voltage battery module (34 AH NEG) only G05 <b>(6 max)</b>	6
61 27 8 843 414 Or 61 27 8 855 568	High-voltage battery module (34 AH POS) only G05 <b>(6 max)</b>	6
39 10 6 865 725	Multi-purpose bolt	8
61 25 8 488 573	Screw	5
07 14 7 446 989	Hexagon bolt with washer (M8x25)	1
07 14 3 428 484	Hexagon bolt with washer (M8x30)	4
33 32 6 775 040	Hexagon bolt with washer (M14x1.5x148)	2
31 10 6 861 942	Hexagon bolt with washer (M10x35)	4
33 12 7 607 158	Recessed nut repair kit (M39x1.5x20)	1
26 11 7 523 709	Hexagon bolt (M12x1.5x58-ZNS3)	3
51 61 9 908 657	Hexagon bolt (M10X25.10.9.ZNS)	6
18 32 5 A0A 109	V-clip (D = 80 mm)	1
18 30 9 909 376	Hexagon screw (M8X25)	1
07 11 9 904 024	Hexagon nut (M8-ZNS3)	2
18 30 7 525 607	Hexagon nut (M8) - rounds to 5 pcs	1
07 11 9 906 938	Combination hexagon bolt (M12x25x1.5 10.9)	6
61 27 8 606 057	ISA screw (M6 GFX85-10.9-S)	48
07 14 9 909 495	Screw (M6x30)	16
11 51 9 908 732	Torx screw (M6x30)	8
07 12 9 908 570	ISA screw (V-M6 GFX16)	8
61 27 7 934 438	Seal	1
61 27 7 934 440	Seal	1
61 27 7 934 441	Seal	1
61 27 8 697 233	Screw	38
61 27 8 697 234	Screw	71
61 27 8 487 619	Gasket	2
64 53 9 284 018	Gasket ring (d= 11 mm)	18
64 53 9 284 850	Gasket ring (d= 15 mm)	2

Additionally, other small parts that are not specified above, such as one-time use screws, nuts, O-rings and seals, which must be replaced according to the ISTA repair instructions/ETK, must be selected from the Electronic Parts Catalogue according to the respective vehicle type and invoiced under the special defect code.

#### Parts for G12, G30-

Part Number for Technical Campaign	Description	Quantity
61 27 8 843 411 Or 61 27 8 855 565	High-voltage battery module (34 AH NEG) <b>(3 max)</b>	3
61 27 8 843 412 Or 61 27 8 855 566	High-voltage battery module (34 AH POS) <b>(3 max)</b>	3
61 27 8 606 057	ISA screw (M6 GFX85-10.9-S)	24
26 11 7 527 475	Hexagon bolt	3
26 12 7 536 563	Hexagon bolt (M12x1.5x58-ZNS3)	3
18 30 8 631 986	V-clip (D = 80 mm)	1
07 11 9 904 024	Hexagon nut (M8-ZNS3)	4
18 30 9 909 376	Hexagon bolt	1
07 14 7 413 212	Combination hexagon bolt (M12x40x1.5 10.9)	6
07 12 9 908 570	ISA screw (V-M6 GFX16)	4
61 27 8 620 917	Seal for high-voltage battery	1
61 27 8 677 638	Hexagon bolt with inside Torx (M6x25 mm)	49
61 25 8 632 010	Hexagon bolt (M10x38)	2
61 27 8 487 619	Gasket	1
64 53 9 284 018	Gasket ring (d= 11 mm)	9
64 53 9 284 850	Gasket ring (d= 15 mm)	1
64 53 9 284 020	Gasket ring (d= 8 mm)	3
64 53 9 284 019	Gasket ring (d= 17 mm)	1

Additionally, other small parts that are not specified above, such as one-time use screws, nuts and seals, which must be replaced according to the ISTA repair instructions/ETK, must be selected from the Electronic Parts Catalogue according to the respective vehicle type and invoiced under the special defect code.

#### Parts for G20-

Part Number for Technical Campaign	Description	Quantity
61 27 8 843 411 Or 61 27 8 855 565	High-voltage battery module (34 AH NEG) <b>(3 max)</b>	3
61 27 8 843 412 Or 61 27 8 855 566	High-voltage battery module (34 AH POS) <b>(3 max)</b>	3
61 25 8 632 010	Hexagon screw (M10x38)	2
26 11 7 523 709	Hexagon bolt (M12x1.5x58-ZNS3)	3

26 12 7 536 563	Hexagon bolt (M12x1.5x58-ZNS3)	3
33 12 7 607 158	Recessed nut repair kit (M39x1.5x20)	1
18 30 8 631 986	V-clip (D = 80 mm)	1
07 11 9 904 024	Hexagon nut (M8-ZNS3)	1
18 30 7 525 607	Hexagon nut (M8) - rounds to 5 pcs	1
33 30 6 861 221	Torx screw (ISA M12x35-10.9)	6
61 27 8 606 057	ISA screw (M6 GFX85-10.9-S)	24
07 12 9 908 570	ISA screw (V-M6 GFX16)	8
61 27 8 620 917	Seal for high-voltage battery	1
61 27 8 677 638	Hexagon bolt with inside Torx (M6x25 mm)	49
61 27 8 487 619	Gasket	1
64 53 9 284 018	Gasket ring (d= 11 mm)	9
64 53 9 284 850	Gasket ring (d= 15 mm)	1
64 53 9 284 020	Gasket ring (d= 8 mm)	2

Additionally, other small parts that are not specified above, such as one-time use screws, nuts, and seals, which must be replaced according to the ISTA repair instructions/ETK, must be selected from the Electronic Parts Catalog according to the respective vehicle type and invoiced under the special defect code.

And, for all:

Part Number	Description	Quantity
83 19 2 468 442	BMW Antifreeze/Coolant (1 gal concentrate) - HT-12	Sublet as needed
Or:		
83 19 5 A32 851	HT-12 Antifreeze RTU (Bulk 1/10 Liter) (Pre-mix)	QTY as needed
83 19 2 446 563	BMW Group R-1234YF - (10lb / 160oz)	Sublet as needed

### Part Retention

The parts replaced to perform and submit for this Service Action 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 Service Action will be via normal claim entry utilizing the applicable work package information below and the part numbers listed above that apply.

<b>Defect Code:</b>	<b>0061450600</b>	<b>Fx Gx PHEV Replacing high-voltage battery cell modules</b>
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**Completion before the first vehicle delivery to a customer or the vehicle is already in the workshop**

<b>Work Pkg</b>	<b>Labor Operation</b>	<b>Description</b>	<b>Labor Allowance</b>
# 1	00 71 973	Replacing all cell modules of the high-voltage battery	Refer to AIR

Or:

**The vehicle arrives at your center and this Service Action shows open (No other Main work will be performed or claimed during this workshop visit)**

<b>Work Pkg</b>	<b>Labor Operation</b>	<b>Description</b>	<b>Labor Allowance</b>
# 2	00 71 400	Replacing all cell modules of the high-voltage battery	Refer to AIR

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

### **Claim Repair Comments**

Only reference the SIB number and the work package (Pkg) number performed in the RO technician notes and in the claim comments (For example: B61 02 22 WP 1), unless otherwise required by State law.

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

<b>Sublet Code</b> 4	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.

BMW Antifreeze/Coolant (Concentrate): Claim the corresponding sublet dollar amount for the quantity 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.

And, if applicable:

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

This Service 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.

## **QUESTIONS REGARDING THIS BULLETIN**

Technical inquiries	Submit feedback at the top of this bulletin
Warranty inquiries	Please contact the Warranty department by either using the Live Chat that's available in the Warranty Documentation Portal or through IDS by selecting Coverage, Policy, Coding Questions and Mileage Corrections.
Parts inquiries	Submit an IDS ticket to the Parts Department

