



SIM 61 04 24

2024-06-24

RECALL 24V-302 : CHECKING THE HIGH-VOLTAGE BATTERY

<input type="checkbox"/>	THIS REPAIR IS MOBILE FRIENDLY
--------------------------	--------------------------------

MODEL

E-Series	Model Description	Production Date
F56 BEV	Cooper SE	According to the vehicle selection

AFFECTED VEHICLES

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

SITUATION

BMW AG is conducting a Voluntary Safety Recall on certain MINI vehicles. The high-voltage battery housing may not have been produced by the supplier to specifications. This could increase the risk of a thermal event.

CAUSE

The high-voltage battery housing may not have been produced by the supplier to specifications.

CORRECTION

Inspecting the High Voltage Battery.

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. 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 ST153)
Therefore, to perform this SIB 61 04 24 an F56 BEV battery Certification is required from Technical Training Course “ST153 F56 MINI BEV Complete Vehicle).**

1. Perform a Vehicle Test using ISTA.
2. If any isolation faults are present in HV system, perform applicable isolation test plans.
 - If isolation test plan pinpoints fault to outside of HV battery continue diagnosis according to test plan.
 - If isolation test plan pinpoints fault to inside of HV battery, continue with discharging the HV battery
3. Discharge the HV battery to an SOC of less than 30% using the service function, available with ISTA version 4.47.40 (6/7/2024)
 - Service Functions>Drive>High Voltage Battery Unit>Discharge the High Voltage Battery Unit up to a Defined State of Charge
4. De-energize the HV system so that it is voltage free, see repair instructions 6125900.
5. Access HV battery. (Follow Repair instructions “6125010 Removing HV battery” for reference).
 - Remove front brace to access HV battery connections.
 - Remove left rear under body panel.
 - Remove the equipotential bonding line to access HV battery vent.

NOTE: The equipotential bonding line must remain disconnected while performing the next steps. Also make sure no 12v battery charger is connected to the vehicle and the ignition is off.

6. Carry out Service Function “Preliminary Check SE14” on the HV battery (HV battery remains in vehicle).
 - Service Functions>Drive>HV Battery Unit>Commissioning of HV battery unit with EOS>Preliminary check SE14.
 - Connect IMIB HV (5 A94 550) using test cable 5 A0D C16 and test bell 5 A0D C39.
 - Start Pre-Check SE14 test in ISTA.
7. Create a TSARA TC HV case with the Title; “TA F56 BEV High-Voltage Battery”.
 - Include the reason the Pre-Check SE14 fails.
8. Park the Vehicle outside of the workshop, observing the repair instructions,
REH-HIN-P-6125-30 section 3 (Assessment of a damaged vehicle).

YOU WILL RECEIVE SPECIFIC INSTRUCTIONS ON HOW TO PROCEED IN THE TSARA CASE_

PARTS INFORMATION

Only use and invoice the applicable part numbers as follows.

Copyright ©2024 MINI USA, a division of BMW of North America, LLC. All Rights Reserved

See the Part List Attachment.

Recalled Part Retention

Recalled parts that are removed from BMW vehicles cannot be used for resale! The recalled parts 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.

Please DO NOT return recalled High Voltage (HV) battery modules directly to the WPRC. You must use the HV battery recall return process.

Please refer to the following document for the procedure that applies to returning these Recalled HV Battery Modules:

- **Bulletin #: M-2-0522-M0603 HV Battery Recall Return Process.pdf**

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

CLAIM INFORMATION

Reimbursement for this Recall's specific instructed repair procedure will be via normal claim entry utilizing the applicable work package (1A or 2A), and the extended package information below (job/repair additional work time FRU allowances) that apply, and the part numbers in the attachment that were required to perform the repair.

Plusposition work	Vehicle is already in the workshop for another repair
Main work	The vehicle arrives at your dealer and this Recall Campaign shows open (No other Main work will be performed/claimed during this workshop visit) (Excluding work time labor operation code 00 76 071)

Only one Main work flat rate labor operation code can be claimed per workshop visit.

Repair Code:	0061530800	F56 BEV Check high-voltage battery (insulation fault)
---------------------	-------------------	--

Below are the special flat rate labor operation code choices for this action.

Completion before the first vehicle delivery to a customer or the vehicle is already in the workshop.

Work Pkg (A)	Labor Operation	Description (Plusposition work)	Labor Allowance
# 1A	00 76 585	Checking the fault memory and insulation fault is outside the high-voltage battery	2 FRU

Or:

The vehicle arrives at your dealer and this Recall shows open (No other Main work will be performed or claimed during this workshop visit).

Work Pkg (A)	Labor Operation	Description (Main work)	Labor Allowance
# 2A	00 76 070	Checking the fault memory and insulation fault is outside the high-voltage battery	4 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.

And, when applicable:

Added Work	Labor Operation	Description (Plusposition work)	Labor Allowance
B	00 76 682	Additional work/Checking the high-voltage battery (EoS test in the vehicle)	10 FRU

And when required and as instructed:

Note: Claim labor operation code “00 76 071” below only one (1) time for the “total FRU work time amount” that applies.

Please do not use and claim labor operation code “00 76 587” that is also listed in AIR for this repair.

Ext Work Pkg	Labor Operation	Description	Labor Allowance
C	00 76 071	Removing and installing high-voltage battery unit (44 FRU), remove and replace the cover for the high-voltage battery unit for reinstall (16 FRU) (including draining and topping up coolant circuit, 00 00 556, 61 21 528) (with 00 76 585, or 00 76 070, and 00 76 682)	60 FRU WT

And:

Replacing One to Six Cell Modules (Item D: FRU WT Allowance Calculation)

#	Cell Module Type	Cell Module (CM) Position	Replaced	No	Carryover FRU	Total Labor Allowance to “Item D”
1	Dual-Cell Module	Grouped Rear (CM 1 and 2)	8 FRU	N/A	Yes>	
2	Dual-Cell Module	Grouped Rear (CM 3 and 4)	9 FRU	N/A	Yes>	
3	Dual-Cell Module	Middle Front Dual (CM 5 and 6)	4 FRU	N/A	Yes>	
4	Single-Cell Module	Middle Front Single (CM 7)	7 FRU	N/A	Yes>	
5	Single-Cell Module	Middle Rear Single (CM 8)	7 FRU	N/A	Yes>	
6	Dual-Cell Module	Grouped Rear (CM 9 and 10)	9 FRU	N/A	Yes>	
7	Dual-Cell Module	Grouped Rear (CM 11 and 12)	8 FRU	N/A	Yes>	

And, as determined from the above:

Ext Work Pkg	Labor Operation	Description	Labor Allowance
D	00 76 071	Job/repair work time (WT): Replacing one (1) to six (6) cell modules (Total from the	4 FRU WT to 48 FRU WT

Copyright ©2024 MINI USA, a division of BMW of North America, LLC. All Rights Reserved

	above) (Includes 61 27 700 Charging cell module)	
--	---	--

Or:

Replacing all Seven (7) Cell Modules or the Replacing the HV Battery Lower Housing Section with up to One (1) to Seven (7) Cell modules

Ext Work Pkg	Labor Operation	Description	Labor Allowance
E	00 76 071	Job/repair work time (WT): Replacing all seven (7) cell modules, or the replacing lower housing section with up to one (1) to seven (7) cell modules (Includes 61 27 700 Charging cell module)	50 FRU WT

And:

Ext Work Pkg	Labor Operation	Description	Labor Allowance
F (As needed)	00 76 071	Additional miscellaneous high-voltage system-related work as needed to complete this repair (either with item D or E)	Up to 6 FRU WT
And:			
G	00 76 071	Additional work with pressure test cooling system high-voltage battery unit (Coolant drained)	4 FRU WT
And:			
H	00 76 071	Performing EoS test for high-voltage battery unit (Associated work, after having repaired the high-voltage battery unit)	3 FRU WT

Note: Special labor operation code 00 76 071 is not considered a Main labor operation.

Claim Repair Comments

Reference the SIB number and the work package (Pkg) number and extended WP procedures performed in the technician's RO notes and in the claim comments (For example: M61 04 24 WP 1A, B, C, D, G, H), unless otherwise required by State law.

When "Item F" applies: Explain the scope of this additional work that was required and performed.

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

Sublet Code 4	Reimbursement for the repair-related bulk supply materials (Do not use the MINI part numbers for claim submission)	Up to \$170.00
----------------------	--	----------------

Sublet reimbursement calculation for claiming the applicable repair-related bulk supply materials (MINI part numbers) is at the dealer net price amount for the full and/or proportional quantities, as applicable, used plus your dealer's handling.

MINI Antifreeze/Coolant: Claim the corresponding sublet dollar amount for the quantity needed to replace what was drained. The one-gallon concentrate part number quantity for a 50/50 coolant/water solution/mix.

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

Copyright ©2024 MINI USA, a division of BMW of North America, LLC. All Rights Reserved

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

This Recall 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 M01 01 17](#) for additional information.

Reimbursement of Prior Customer-Pay Repairs (TREAD Act)

Based on the issue, and the age of the Affected Vehicles being addressed by this Safety Recall Campaign, a reimbursement request for a qualifying prior customer-pay repair is not likely.

However, if you do receive a reimbursement request from a customer for a prior repair that may qualify, please contact the Warranty department (include a legible copy of the invoice) through IDS by selecting Coverage, Policy, Coding Questions and Mileage Corrections. The Warranty department will review and respond to your inquiry accordingly.

FEEDBACK REGARDING THIS BULLETIN

Technical Feedback	To submit feedback for the technical topic 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 M61 04 24 F56 BEV PARTS.pdf](#)

Parts list containing the parts required each time HV Battery is removed:

Part Number	Description	Quantity
07 14 6 954 965	External Torx with lock washer	18
07 11 9 904 956	Hexagon bolt	4

Parts that may be required for replacement depending on the repair instructions:

Part Number	Description	Quantity
61 27 8 741 655	Upper section of housing	1
71 22 9 489 095	Type plate of high-voltage battery	1
61 27 7 625 086	High-voltage battery warning sticker	1
12 37 7 626 091	Warning sign for HV battery, small	1
61 27 8 740 544	Lower housing section	1
61 27 9 884 311	Absorber mats	1
61 27 9 487 213	Retaining plate	1
61 27 8 608 564	Venting unit	1
07 11 9 906 043	Hexagon bolt	4
61 27 8 679 679	High-voltage connector housing	1
12 52 7 630 408	High-voltage interlock bridge	1
61 13 9 361 679	Holder	1
07 12 9 904 975	Torx socket	8
07 11 9 906 106	Screw, flat head	1
71 22 8 878 533	High-voltage battery warning sticker	1
61 27 9 494 168	Dual-cell module for high-voltage battery	5
61 27 9 494 172	Cell module, high-voltage battery	2
61 27 9 487 747	Cooling line	1
61 27 9 487 748	Cooling line	1
61 27 9 487 749	Cooling line	1
61 27 9 487 750	Connector	1
61 27 9 487 751	Connector	1
61 27 9 487 752	Connector	1
61 27 9 487 753	Connector	1
61 27 9 487 754	Connector	1
61 27 9 487 755	Connector	1
61 27 9 487 756	Connecting flange	2
07 14 7 568 538	Clip	12
61 27 9 452 412	Battery management electronics	1
61 27 9 489 897	Cell supervision circuit	12
61 27 9 485 057	Support	1
61 27 9 485 058	Support	1
61 27 9 485 063	Holder	2
07 11 9 905 710	Hexagon nut	3
07 11 9 909 322	Self-locking hexagon nut	19
61 27 9 455 518	Safety box	1

Part Number	Description	Quantity
61 27 9 452 219	High-voltage battery wire	1
61 27 9 485 358	Module connector	1
61 27 9 485 357	Module connector	1
61 27 9 485 356	Module connector	1
61 27 9 485 052	Cable duct	1
61 27 9 485 053	Cable duct	1
61 27 9 454 488	Communication wiring harness	1
61 27 9 452 222	Cell supervision circuit wiring harness	1
12 52 7 623 351	Connector housing	1
61 13 6 964 200	Cable clip	14

Part Number	Description (Bulk Supply Materials - Sublet)	Quantity
83 19 2 289 180	Windshield adhesive kit (300ml)	1
83 19 5 A32 851	HT-12 Antifreeze RTU (Bulk DN = 1/10 Liter) (Pre-mix)	As needed
Or:		
83 19 2 468 442	BMW Antifreeze/Coolant (DN = 1 Gallon) HT-12	As needed