

<b>REFERENCE:</b>	Nova Bus Manuals
<b>SECTION:</b>	10: LFSe High-Voltage batteries
<b>RS N°:</b>	MQR 7621-2648, 7621-2697
<b>EFFECTIVE IN PROD.:</b>	LE91 2023MA
<b>TC RECALL N°:</b>	2023-247 2023-425
<b>NHTSA RECALL N°:</b>	23V291 23V540

**APPLICATION DEADLINES: N/A CLAIM REFERENCE NUMBER: SR5461**

<b>SUBJECT:</b>	Akasol battery pack
<b>JUSTIFICATION:</b>	2023-247, 23V291 : Certain affected vehicles may have the coolant line in the high-voltage battery pack not fully seated and locked, which can result in the loss of coolant and an electrical short circuit. 2023-425, 23V540 : Certain affected vehicles may have certain busbar terminal blocks that may be over torqued and could fail. The failed terminal block portion can become a loose metallic debris in the battery pack. The loose metallic debris in the battery pack may cause a short circuit.

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Replace all the HV battery packs installed on the vehicle with new HV battery packs.	Nova Bus	-	36h
2	-	-	-	-

**MATERIAL REQUIRED PER VEHICLE**

QTY	PART N°	REV.	DESCRIPTION
<b>LEVEL 1</b>			
-	-	-	-
<b>LEVEL 2</b>			
-	-	-	-

**DISPOSAL OF PARTS**

<b>REMOVED PARTS ARE:</b>	<b>DISCARDED</b>	<b>RETAINED *</b>	* The parts must be retained and returned according to your customer support manager directives.
	-	Yes	

**REVISION HISTORY**

REV.	DATE	CHANGE DESCRIPTION	WRITTEN BY
NR	2023SE15	Initial release	Luc Carignan

**APPROVED BY:** Irina

Signature numérique de Irina Negoescu  
Date : 2023.09.15 14:33:05 -04'00'

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
Guelph Ontario	LE69	285	287	L82M9N3	[REDACTED]	3
Milwaukee - Wisconsin	LE16	1000	1000	L82M4N9	[REDACTED]	1
Milwaukee - Wisconsin	LE17	1001	1008	L82M4N9	[REDACTED]	8
San Francisco California SFMTA - LFS-e+	LE39	5010	5010	L82M2N9	[REDACTED]	1
Ames Transportation Agency - Iowa	LE52	7157	7158	L82M2N9	[REDACTED]	2
Houston - Texas	LE77	3000	3000	L82M3N9	[REDACTED]	1

**WARNING**

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FOLLOW YOUR INTERNAL SAFETY PROCEDURES.

## PROCEDURE

**CAUTION**

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This vehicle has an electrochemical power storage device and high-voltage cables that can cause fatal electric shock to personnel and damage to the vehicle. It is the customer's responsibility to read and understand the documentation about the risks associated with the maintenance, replacement, or repair of the system's components.

**WARNING**

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Before starting the procedure included in this document, contact your customer support manager or your nearest Prevest service center to schedule the Akasol High-Voltage battery packs replacement. The replacement of the HV battery packs must be performed in the presence of your customer support manager or by a certified Prévost technician.

**NOTE**

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Contact your customer support manager to order the HV battery packs required to complete this recall campaign.

- 1.1. Park the vehicle on an even surface with the transmission on neutral.
- 1.2. Apply the parking brake and set the master control switch to the **stop** position.
- 1.3. Set the battery disconnect switch in the battery compartment to the **off** position.
- 1.4. Decommission and lock the vehicle according to section **16: LFSE+ HIGH-VOLTAGE DECOMMISSIONING** of your Nova Bus maintenance manual.

**CAUTION**

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This vehicle has an electrochemical power storage device composed of high-voltage (HV) batteries and cables that can cause fatal electric shock or chemical burns, and damage to the vehicle. It is the customer's responsibility to read the manufacturer's documentation to be aware of the risks associated with the system. It is required to decommission and lock out the vehicle according to section **16: LFSE+ HIGH-VOLTAGE DECOMMISSIONING** of the Nova Bus maintenance manual before working on the high-voltage system or in the high risk and potential risk zones. As well, follow any transit authority, local, provincial/state, or federal safety procedures should these take precedence.



- 1.5. Note the serial number of each removed HV battery pack and its position and write the information on the **HV BATTERY PACK SERIAL NUMBER TABLE** available in the Annex of this document. See Figure 1 for the serial number tag position on the battery pack.

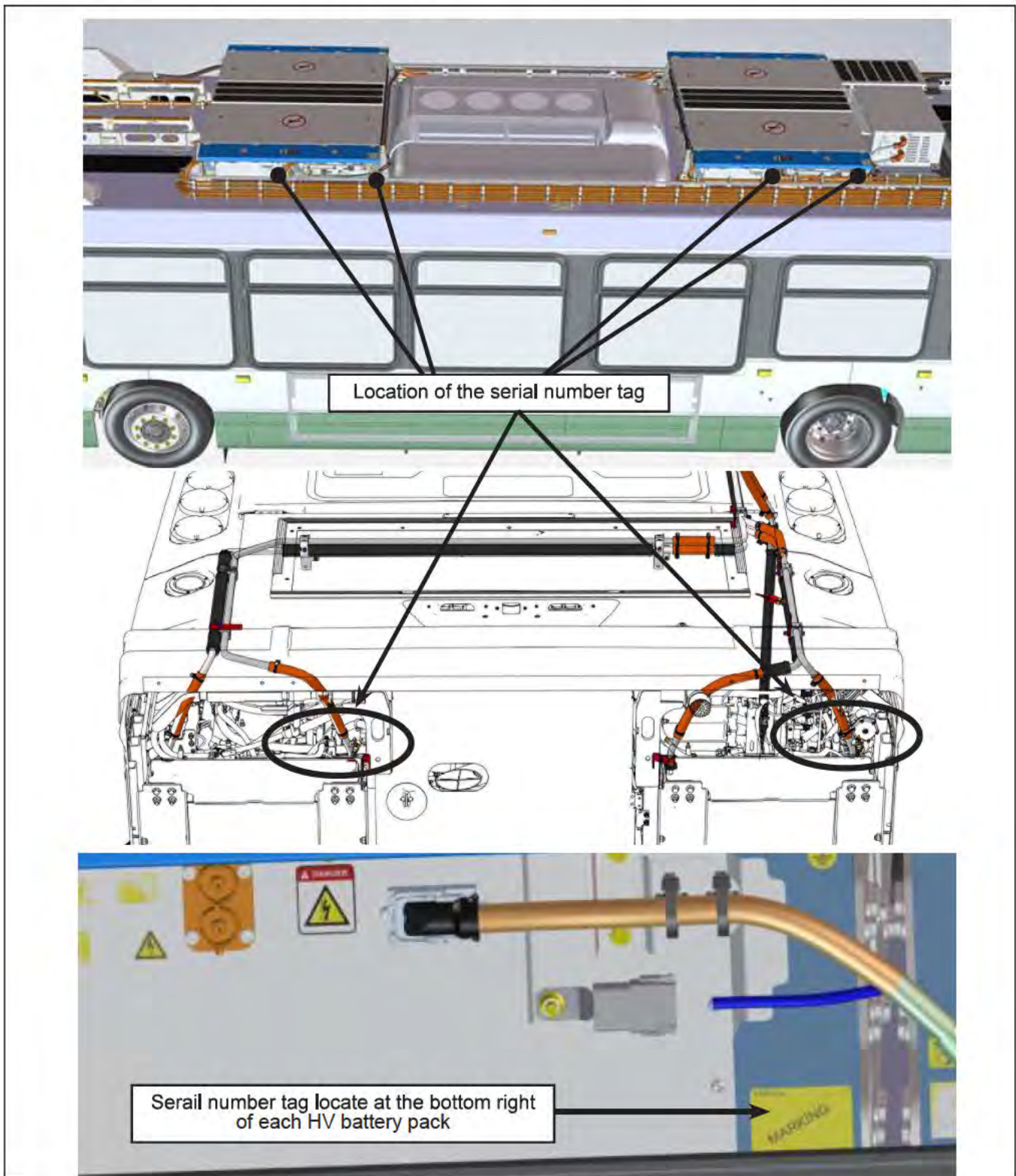


Figure 1 - HV Battery Pack Serial Number Tag Location

- 1.6. Remove in the presence of your customer support manager or a certified Prévost technician, all the HV battery packs installed on the vehicle. Follow heading **REMOVAL** of the following section of the Nova bus maintenance manual :
  - **10-701 LFSE+ HVESS UPPER REAR**
  - **10-704 LFSE+ HVESS LOWER REAR**
  - **10-705 LFSE+ HVESS AVANT SUPÉRIEUR**
- 1.7. Unpack and inspect the new HV battery pack, ordered by your customer support manager, for any external damage that may have occurred during shipping. If external damage is visible on one of the HV battery pack, contact your customer support manager.
- 1.8. Note the serial number of each new HV battery pack and the position at which it will be installed on the vehicle and write the information on the **HV BATTERY PACK SERIAL NUMBER TABLE** available in the Annex of this document.
- 1.9. Install in the presence of your customer support manager or a certified Prévost technician, all the HV battery pack on the vehicle. Follow heading **INSTALLATION** of the following section of the Nova bus maintenance manual :
  - **10-701 LFSE+ HVESS UPPER REAR**
  - **10-704 LFSE+ HVESS LOWER REAR**
  - **10-705 LFSE+ HVESS AVANT SUPÉRIEUR**
- 1.10. Return all the removed HV battery pack removed from the vehicle according to your customer support manager directives.
- 1.11. Commission the vehicle according to section **16 : LFSE+ HIGH-VOLTAGE DECOMMISSIONING** of the Nova Bus maintenance manual.

**CAUTION**

This vehicle has an electrochemical power storage device composed of high-voltage (HV) batteries and cables that can cause fatal electric shock or chemical burns, and damage to the vehicle. It is the customer's responsibility to read the manufacturer's documentation to be aware of the risks associated with the system. **It is required to commission the vehicle according to section 16: LFSE+ High-Voltage Decommissioning of the Nova Bus maintenance manual.** As well, follow any transit authority, local, provincial/state, or federal safety procedures should these take precedence.

- 1.12. Put the vehicle in **RUN MODE** and verify that there is no warning message on the driver display and that no fault codes are being reported by any of the batteries nor the electrical storage system (ESS) using the IDS tool.

**NOTE**

Erase all of the active codes before charging the vehicle. See section 16-100: **Fault Codes** of the maintenance manual for information on error codes and perform the required actions to remove those fault. If required, contact your customer support manager for assistance.





**ANNEX**  
**HV BATTERY PACK SERIAL NUMBER TABLE**

<b>HV BATTERY PACK SERIAL NUMBER TABLE</b>			
<b>Battery location</b>	<b>Original HV Battery S/N</b>	<b>New HV Battery S/N</b>	<b>Vehicle Identification Number</b>
Motor compartment Curb side			
Motor compartment Street side			
1st Upper Frontr (Roof front)			
2nd Upper Frontr (Roof front)			
1st Upper Rear (Roof Rear)			
2nd Upper Rear (Roof Rear)			
<b>Fill one table per affected vehicle</b>			