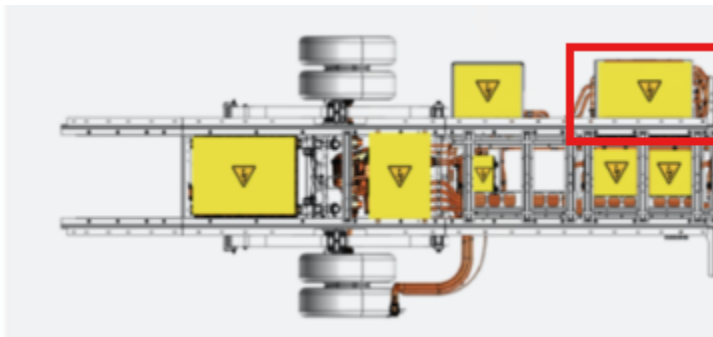


 HARBINGER	Technical Service Bulletin
Bulletin Number: TSB-07-00005	
Date: 8/28/2026	
Subject: Thermal Box Replacement	
Applicability: 2025 and 2026 MY stripped chassis that were not reworked prior to delivery may experience this potential issue.	
Service Category: HVAC	
Section: Thermal system	
Market: USA	

INTRODUCTION

As a response to an High Voltage Interlock Loop (HVIL) fault indicated inside the thermal box or an MDV (mode valve) fault, replace the Thermal Box A-00038191_C with an upgraded version supplied by Harbinger. Request the thermal box by opening a support ticket in the Harbinger Service Portal. For Service Portal access, email an access request to service@harbingermotors.com. Techline will confirm whether the vehicle is already updated and initiate the parts delivery if necessary. The support ticket will be advanced to “Authorized”.

The upgraded thermal box will have newer versions of the mode valve and the LCC heat exchanger, as well as additional low voltage wiring strain relief.



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This condition does not pose a risk to motor vehicle safety.

Vehicle Applicability:

Model Year	Model
2025-2026	Chassis

Parts Needed	Part Number
Thermal Box	A-00038191_C

Operation	SRT
Thermal Box Assembly including refrigerant recovery and refill	1.8h
Coolant top off and de-bubble with diag tool routine	.8h

Tools and materials
Vehicle Lift
EV dedicated Refrigerant machine and R134a
Lift table
Harbinger Service Diagnostics Tool
Harbinger coolant
Coolant system pressure tester
Common tools not comprehensively listed

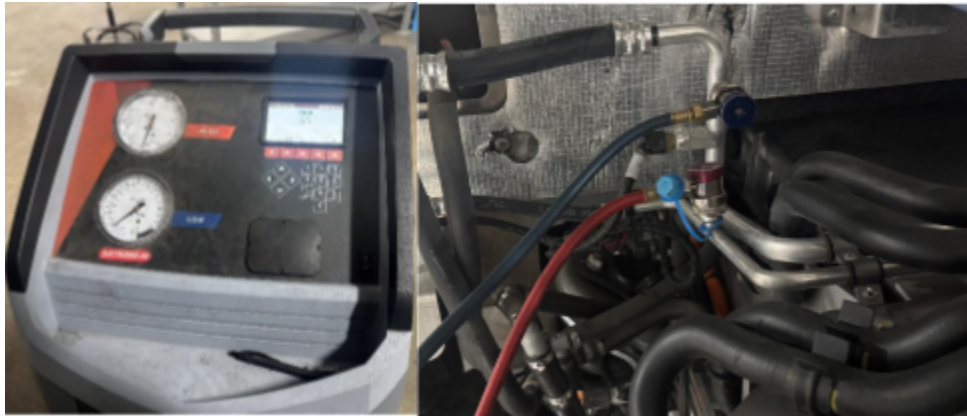
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INSTRUCTIONS

PREPARATION

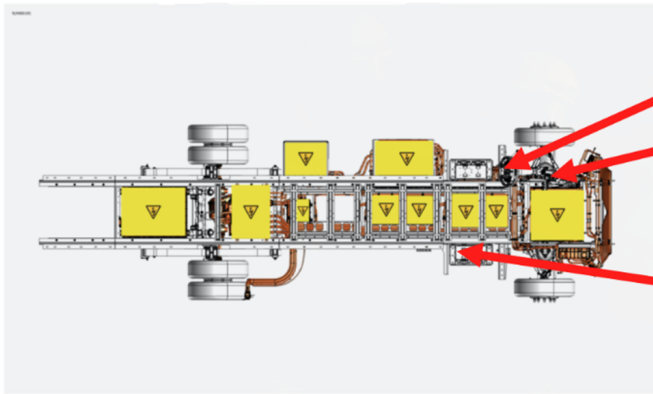
Tool(s) Required	EV Specific AC Refrigerant Machine with PEV oil only
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STEP 1	Recover the refrigerant from the vehicle using an EV specific AC refrigerant machine.
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STEP 2	Power down the vehicle by disconnecting one of three cutloops and follow the HV powerdown procedure in the service diagnostics tool.
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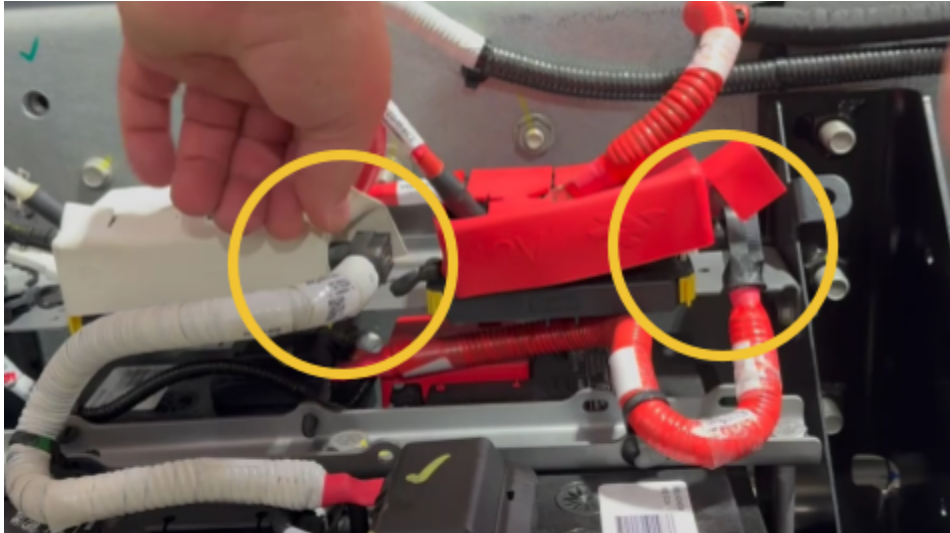
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STEP 3

Disconnect the four (4) low voltage batteries by disconnecting the radlocks from each battery.



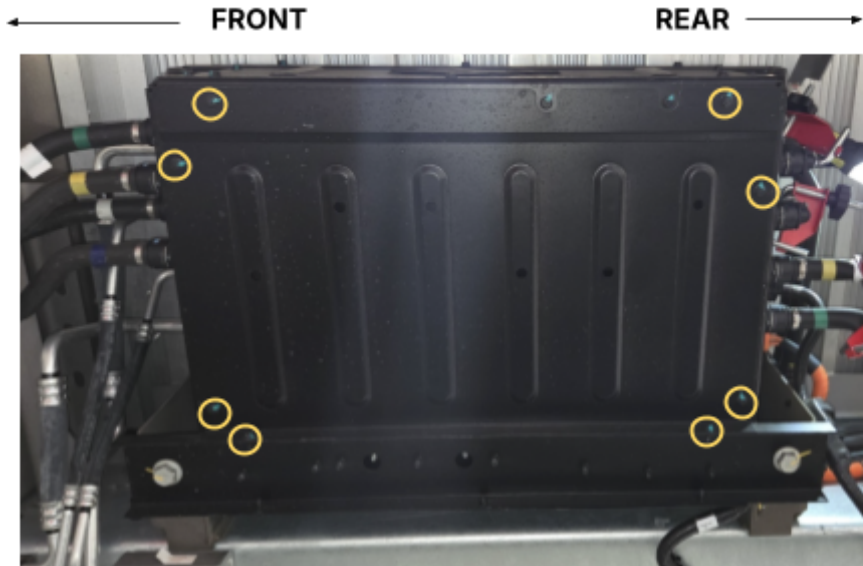
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THERMAL BOX REMOVAL

Tool(s) Required	8mm Allen Key (long)	1 3/4" Hose Clamps (8)	Absorbent Towels
	Catch Basin	Lift Cart	Various Hand Tools

STEP 1

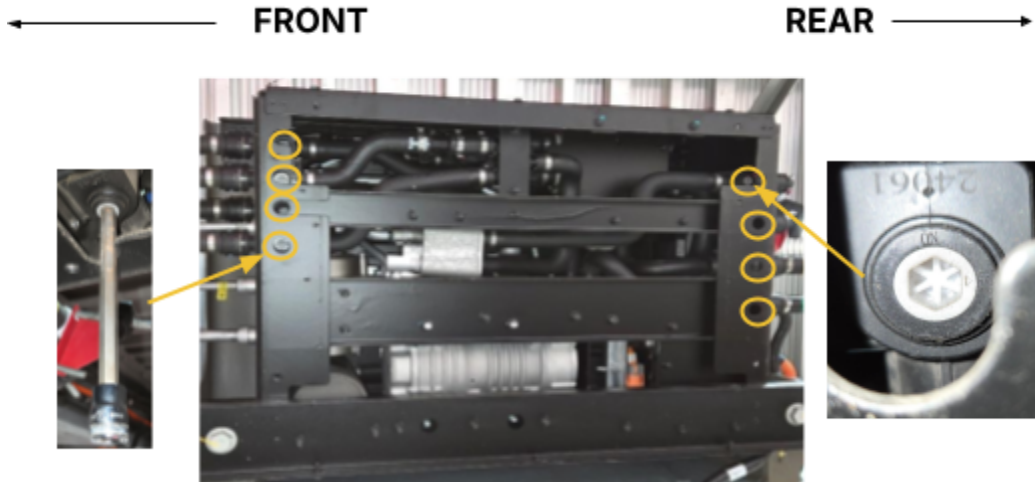
Remove and store the bottom cover of the thermal box by removing the 8x 10mm bolts. Keep all eight (8) bolts in a safe location.



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STEP 2

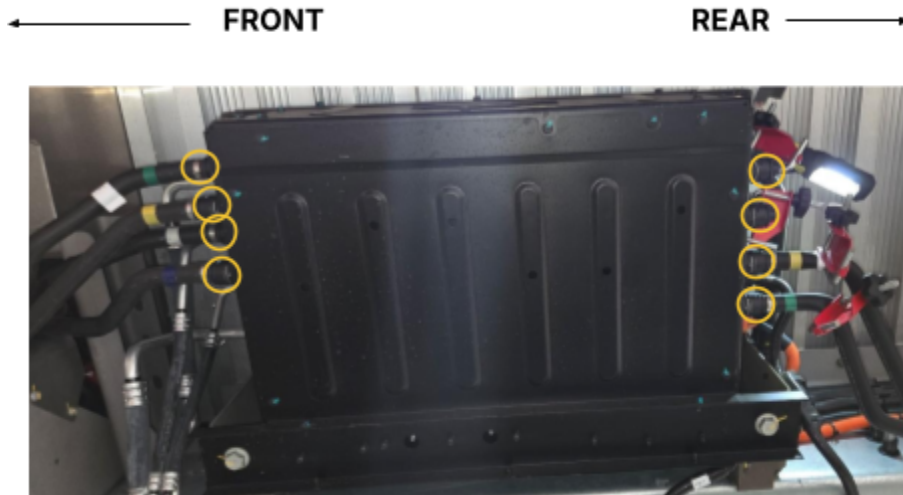
Using a long 8mm Allen key, carefully turn in a clockwise direction to close off the eight (8) valves. Ensure the arrow on the knob faces the off position.



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STEP 3

Clamp all eight (8) hoses using hose clamps. Coolant loss can result if hoses are not properly clamped.

**STEP 4**

Place coolant catch basin under hoses, remove and store silver lock clip(s), and disconnect hoses.



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STEP 5

Disconnect electrical connections from the rear of the thermal box.

BLACK CONNECTORS

Push Locking Pin and Pull Connector.

**ORANGE CONNECTORS**

1. Pull red locking pin.
2. Press, then pull red locking pin.
3. Press the larger orange safety locking tab and fully remove the connector.

STEP 6

Remove and store the 10mm bolts from the four (4) refrigerant lines.



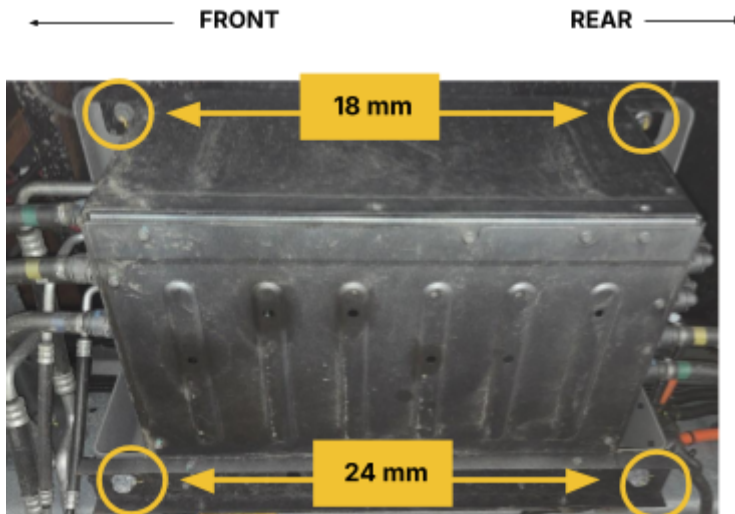
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STEP 7

Disconnect the ground strap from the bottom of the thermal box and store the fastener.

**STEP 8**

Using a lift cart, support the thermal box and remove and store the four (4) bolts. 2x 24mm, 2x 18mm. Then lower the thermal box.

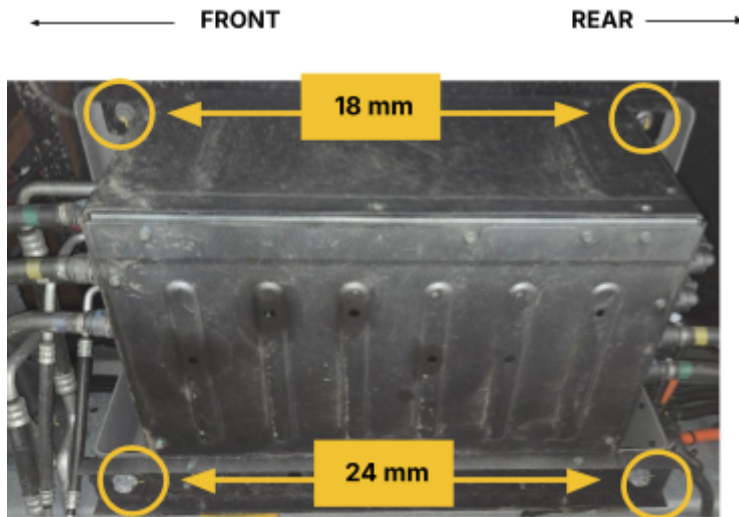


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THERMAL BOX INSTALL

Tool(s) Required	EV Specific AC Refrigerant Machine	Torque Wrench	Various Hand Tools
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STEP 1	To install, reverse process. Lift the thermal box in place and secure it with fasteners.
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STEP 2	Reconnect ground strap to the thermal box.
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STEP 3

Reconnect the four (4) refrigerant lines. Torque to 11 NM.

**STEP 4**

Reconnect the electrical connectors.



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STEP 5

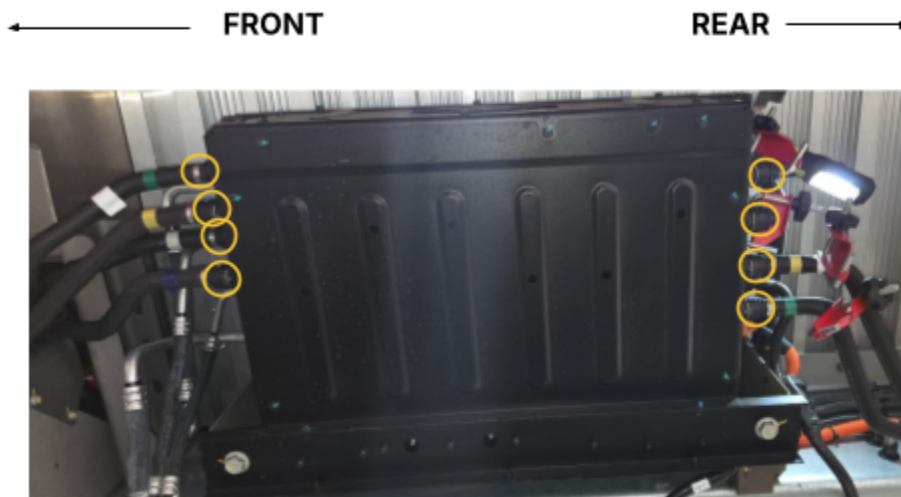
Reconnect the coolant hoses.

**NOTE**

Note the coolant hoses are color coded and match the correct ports on the thermal box.

STEP 6

Remove the hose clamps.



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STEP 7

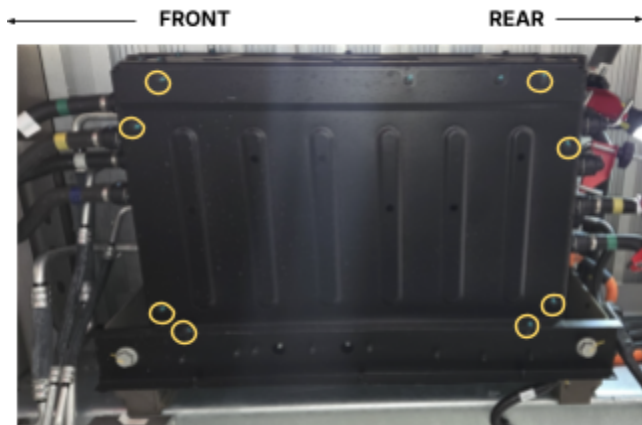
Open all eight (8) valves by turning counterclockwise. The arrow on the knob should be pointed to the ON position.

**WARNING**

If valves are not open, coolant will not flow, potentially causing a battery over temperature warning to display.

STEP 8

Install the bottom cover.



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Torque Specifications

Tighten all connectors to proper torque spec.

Fasteners	Torque Specification
Bottom cover 8×10mm	9 Nm
Thermal box to frame: 2×18mm	185 Nm
Thermal box to frame: 2×24mm	290 Nm
Refrigerant line to Thermal Box: 4×10mm Bolt	11 Nm
Ground Strap to Thermal Box 1×10mm nut	9 nm

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Debubbling

Tool(s) Required	Harbinger Diagnostics tool	Coolant Pressure Tester	Coolant
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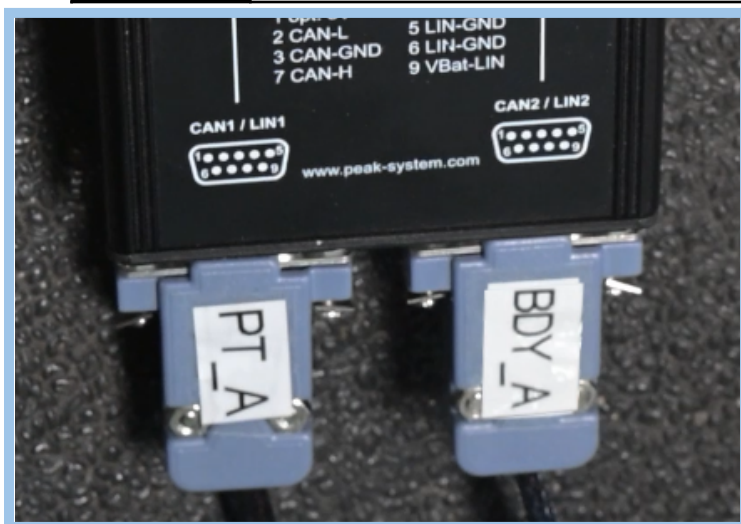
STEP 1	For removed, reworked, and reinstalled thermal boxes: Proceed to step 2. For installing a new thermal box: top off any lost coolant. Using a coolant pressure tester, pressurize the coolant system to fifteen (15) lbs to check for leaks.
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STEP 2

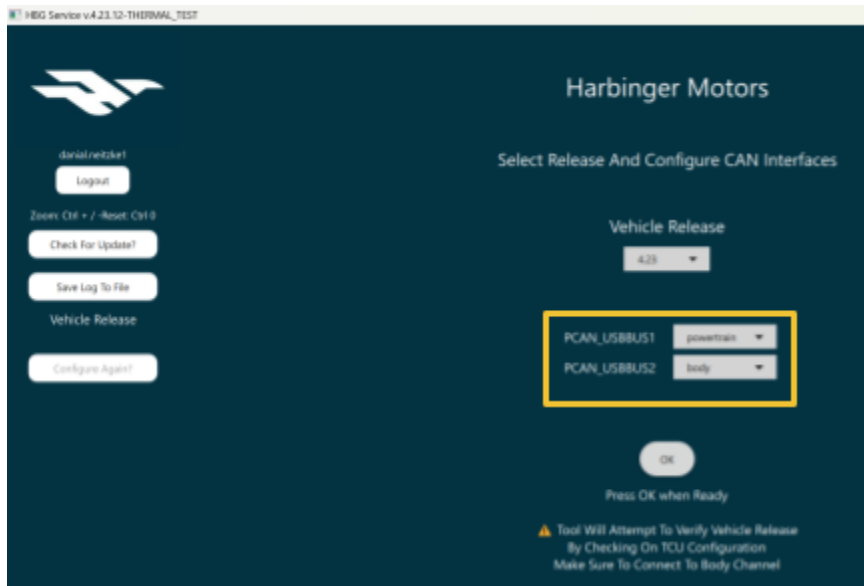
Install breakout harness and connect to the computer.
Connect to breakout harness dual channel PCAN connect to Powertrain and Body ports.



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STEP 3

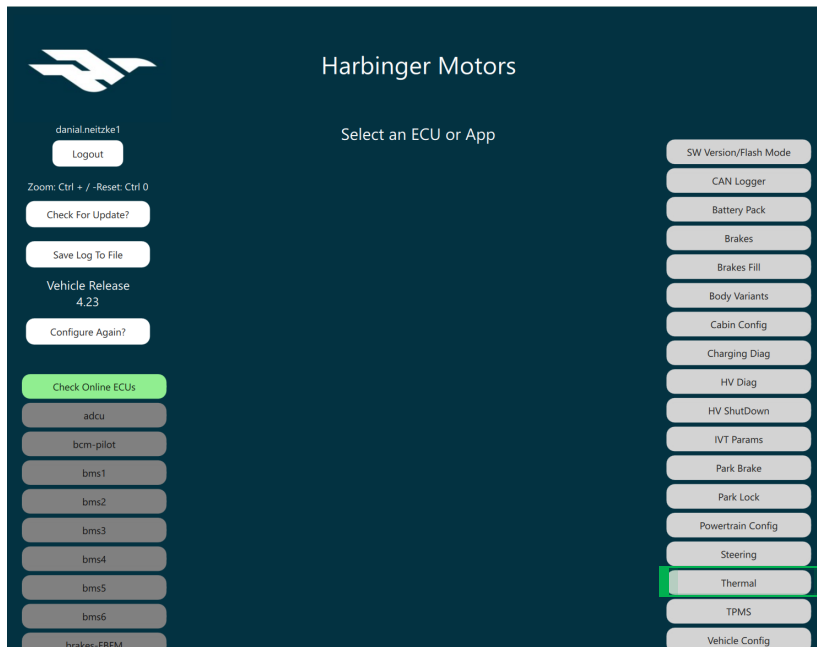
In the service software, select "Powertrain" and "Body" from the drop-down menu which is not automatically populated and press "OK".



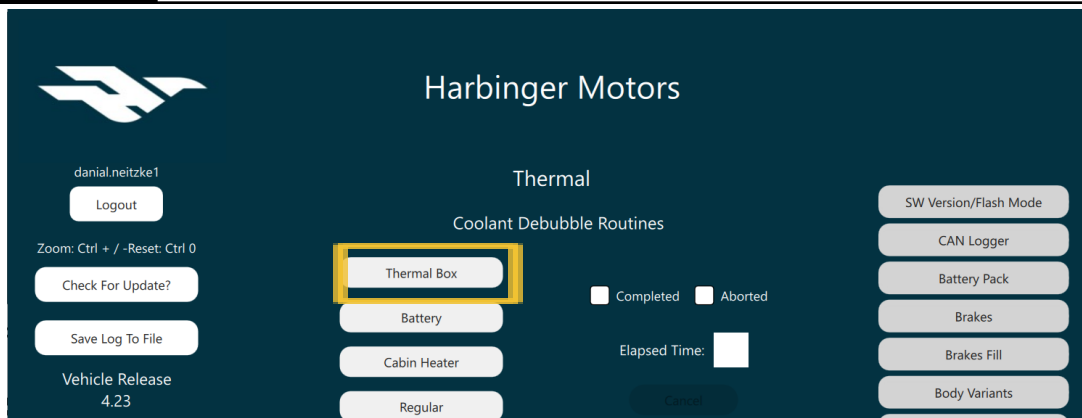
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STEP 4

Once the HBG tool finishes finding all online modules, then click the “THERMAL” tab on the right hand side.

**STEP 5**

From the Thermal Menu select the “THERMAL BOX” button.



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STEP 6

The de-bubble routine will run for five (5) minutes and will turn green when completed.

STEP 7

If the vehicle is de-bubbled correctly, you will see coolant flow out of top ports within the coolant reservoir.

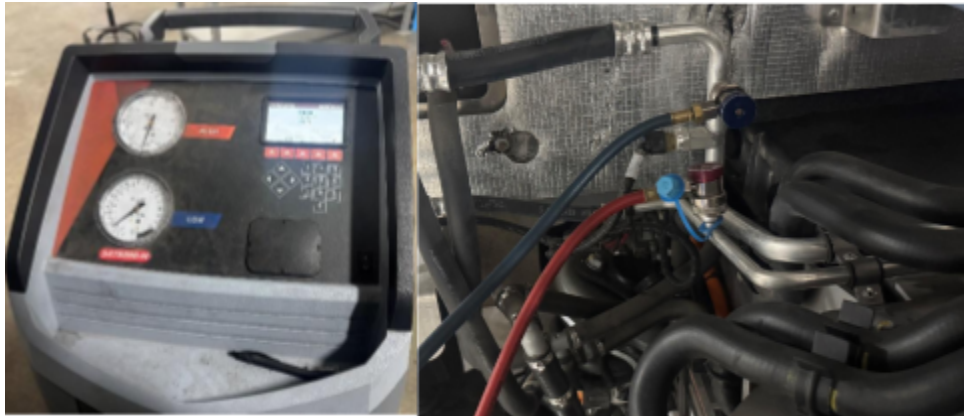


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Recharge Refrigerant System

Tool(s) Required

EV Specific AC Refrigerant Machine



STEP 1

Evacuate the system.

STEP 2

Run a leak test for ten (10) minutes.

STEP 3

Recharge the system.

NOTE



Refrigerant Capacity
Step Van: 3.9 LBS

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Document Version History:

Version	Change descriptions	Author
1.0	Initial release	David TenHouten
1.1	Formatting	Kirby Yau
1.2.2	Update torque table	David TenHouten

Affected VINs

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