



TECHNICAL SERVICES BULLETIN

Document ID: 8-23-NA-35-004
Bulletin Title: VF8_Cabin Cooling Performance Increase rework
Released by: VF – GRSC
Date of issue: EN Version 1.0 / 22 May 2023
Applies to: VF Aftersales, Dealers and Showrooms

CHANGE HISTORY

Version	Status	Effective Date	Handled by	Approved by	Comments
1.0	Final	22 May 2023	Satishkumar Rajagopal	Nguyễn Phi Hùng	Initial EN Release

1.0) Overview

Market	US & CANADA
Applicability	The Purpose of this bulletin is to instruct & perform a rework at Port PDI and Dealer/Service center for the VF8 model – to increase the cooling performance inside the cabin

2.0) Scope

Type	Break Point	Motor	Transmission
	MY2023 – 2878 VIN [999 + 1879] of VF8 model [VIN list]		
VF8	Rework on Coolant hoses for Cabin cooling performance increase	All	All

3.0) Repair Instruction

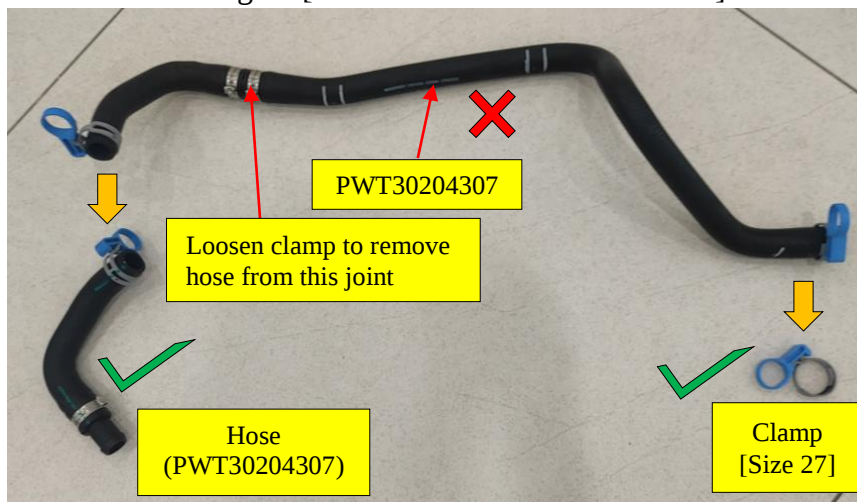
Strictly follow all requirements in this document.

IMPORTANT: During the whole process, it is important that you follow these steps to prevent any damage to trims, hoses or wiring harness.

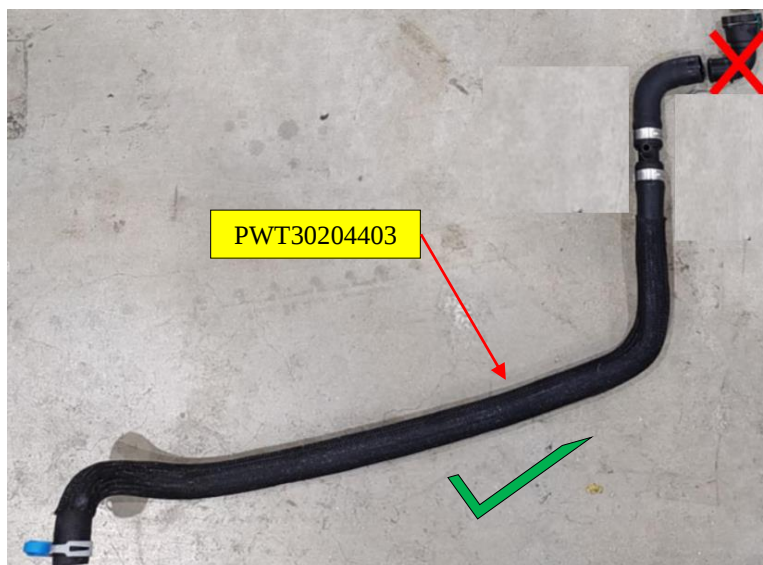
- i. Wear gloves to conduct the work.
- ii. Be careful not to damage the body panel, trim, wiring harness or hoses during removal and installation process.
- iii. If you have any difficulties or find any abnormalities with the vehicles or process, report it immediately to your Service Manager for escalation.

Step 1: Preparation of Parts

- i. Remove & secure the hose and clamp from HOSE_PUMP_2_TO_BATTERY_CHILLER as shown in below figure [Part Number: PWT30204307] & discard the remaining part.



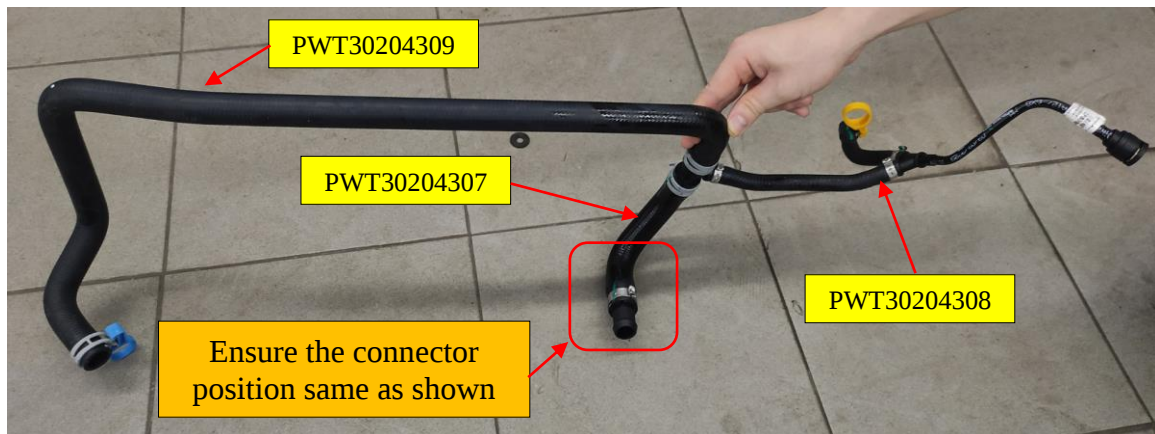
- ii. Remove the connector & Secure the Hose [PWT30204403] as shown in below figure



- iii. List of parts required as shown in below figure to sub-assembly the hoses before starting the rework.



- iv. Pay attention to connect the hoses similar as shown in below figure

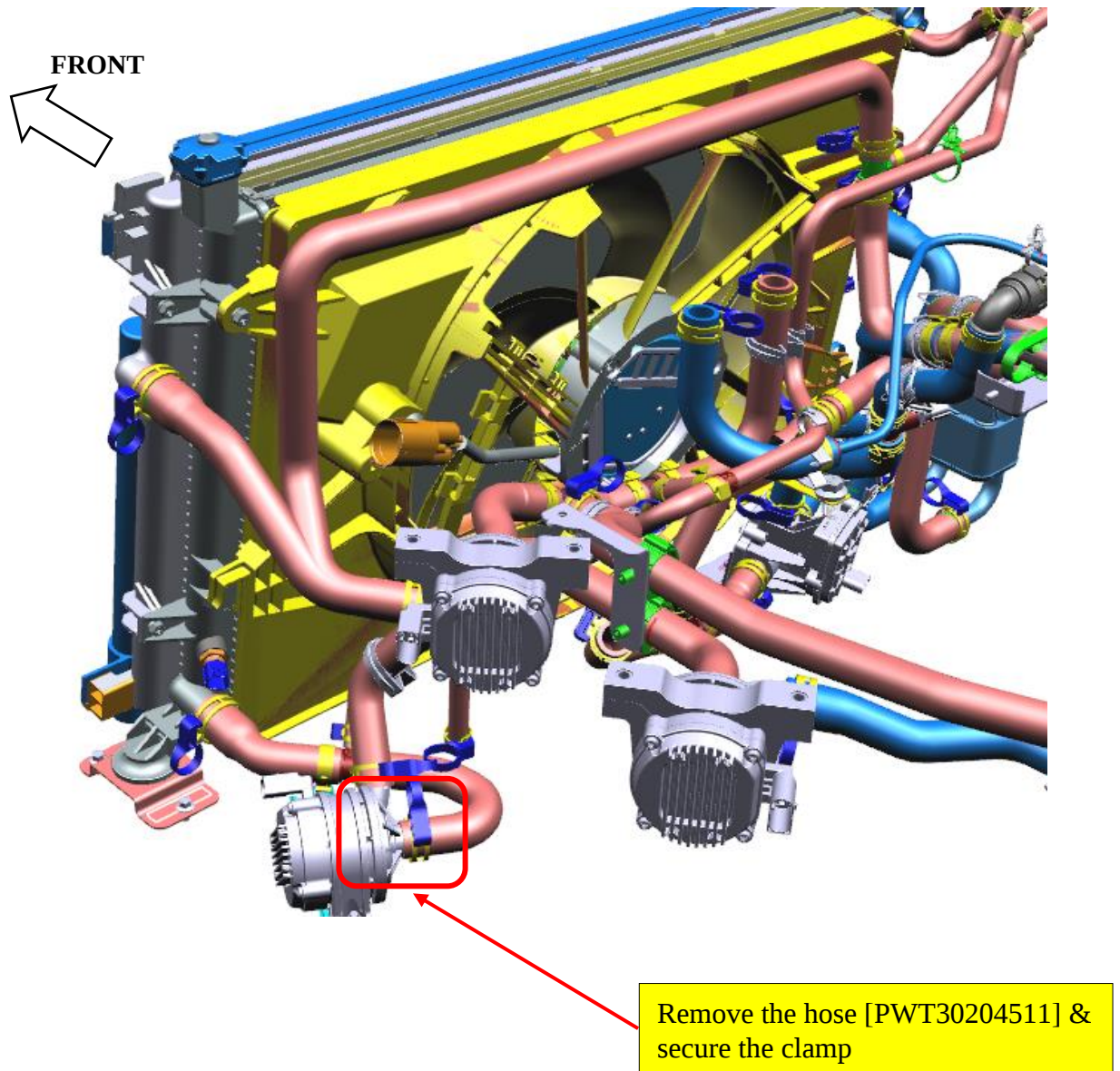


Step 2: Remove required Parts

- i. Disconnect 12V Battery Negative Cable and refer to [12V Battery Negative Cable Disconnection/Connection – 1003300](#) for the Disconnection/Connection.
- ii. Deactivate the High Voltage system & refer to **PART 1** of [Vehicle High Voltage Isolation and Enabling Procedure – 1003710](#) for the Deactivation/Activation of HV system.
- iii. Remove Front trunk and refer to [Front Trunk Removal and Installation/Replacement – 1004424](#) for the Removal/Installation of the part.
- iv. Remove Underbody Front Air Shield and refer to [Underbody Front Air Shield Removal and Installation/Replacement – 1003095](#) for the Removal/Installation of the part.
- v. Remove Front Bumper Fascia Skid Plate and refer to [Front Bumper Fascia Skid Plate Removal and Installation/Replacement– 1003023](#) for the Removal/Installation of the part.

Step 3: Remove the hoses and drain the coolant

- i. Remove the hose EDS-RADIATOR_TO_PUMP4_HOSE (PWT30204511) from the pump4 and drain the coolant [collect coolant in the storage tank for reuse].
- ii. Secure the removed clamp [size: 27] for reuse at later steps

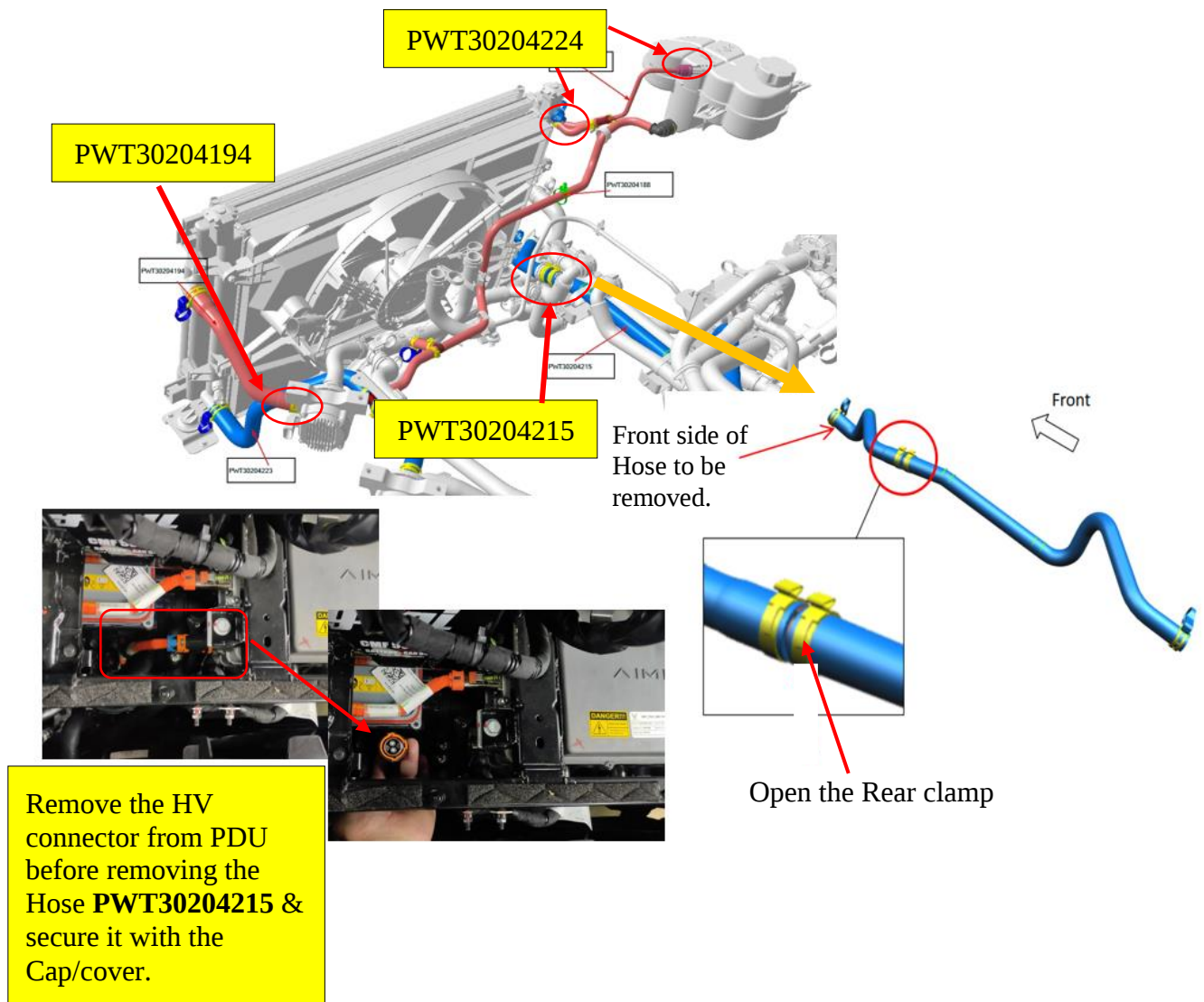


Step 4: Lift down the Car and remove the hoses from vehicle

- i. Lift down the car and remove the three hoses from the vehicle as shown in below figure and discard it.

Attention: Remove the HV connector from PDU before removing the Hose **PWT30204215** & secure it with the cover as shown in below figure

SNo	Part Number	Part Name	Remark
1	PWT30204224	RAD_VENT_HOSE_SFC	Expansion Tank venting to radiator venting hose
2	PWT30204215	CHILLER_INLET_HOSE_SFC	Battery Chiller to radiator
3	PWT30204194	BATT_RAD_INLET_HOSE	Water pump to radiator

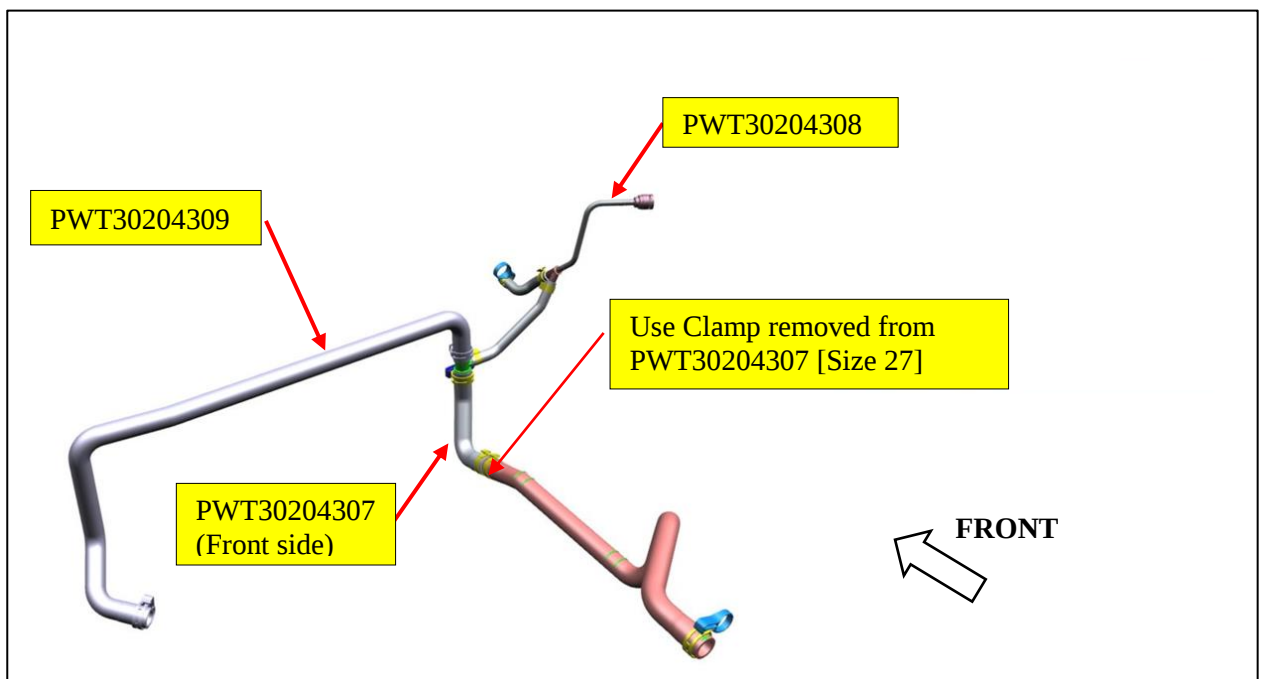
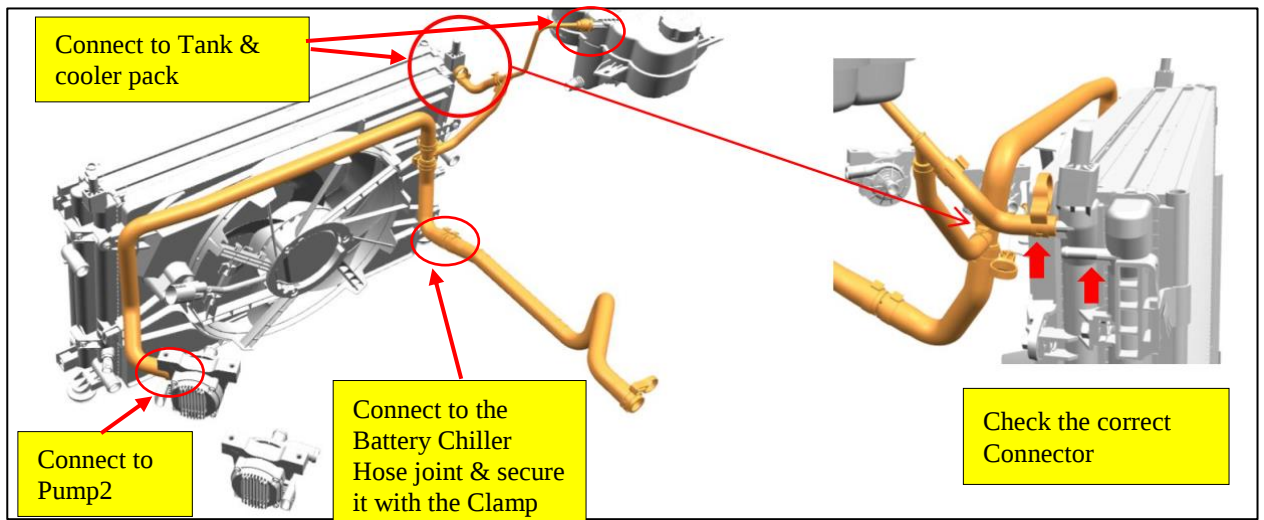


Step 5: Add new hoses to vehicle

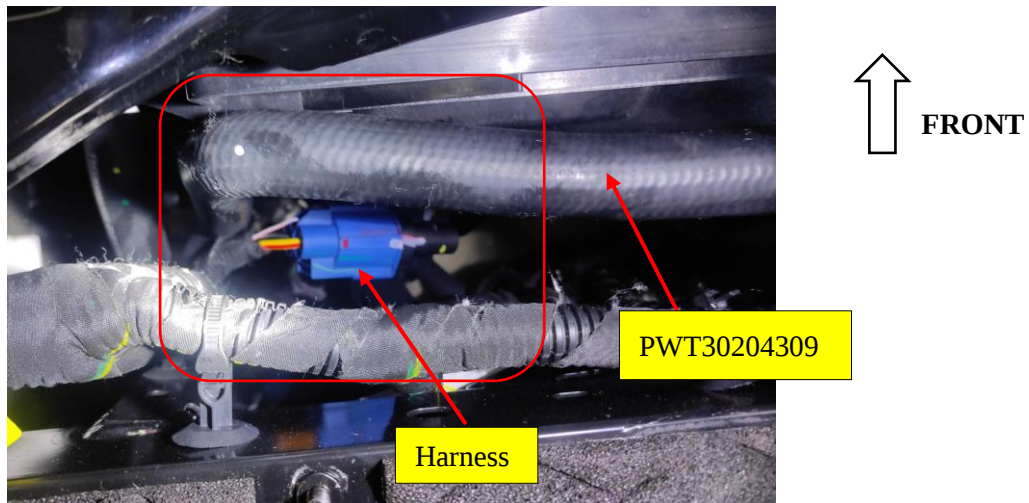
- i. Connect the Hoses PWT30204307, PWT30204308 & PWT30204309 as shown in below figure.

Attention:

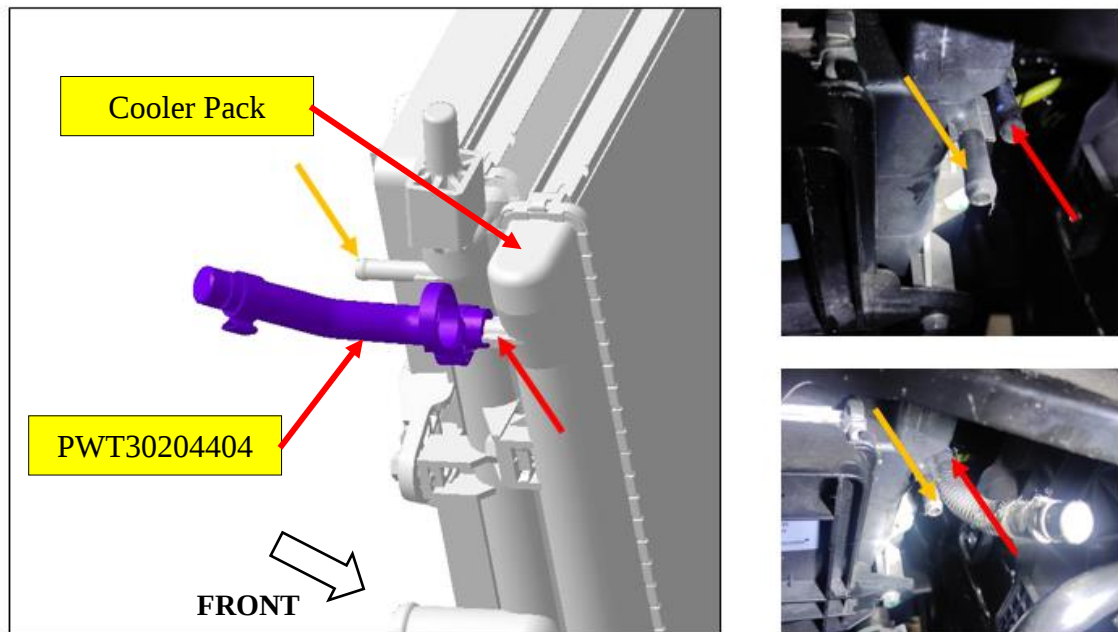
- Connect the HV connector with PDU after installing the hoses.
- Check for clamp size 27 & mark in the clamp for fixing the hose [PWT30204307].



- ii. Before connecting the hose [PWT30204309] to Pump2, ensure the hose routing towards vehicle outside & wiring harness with connector towards vehicle inside

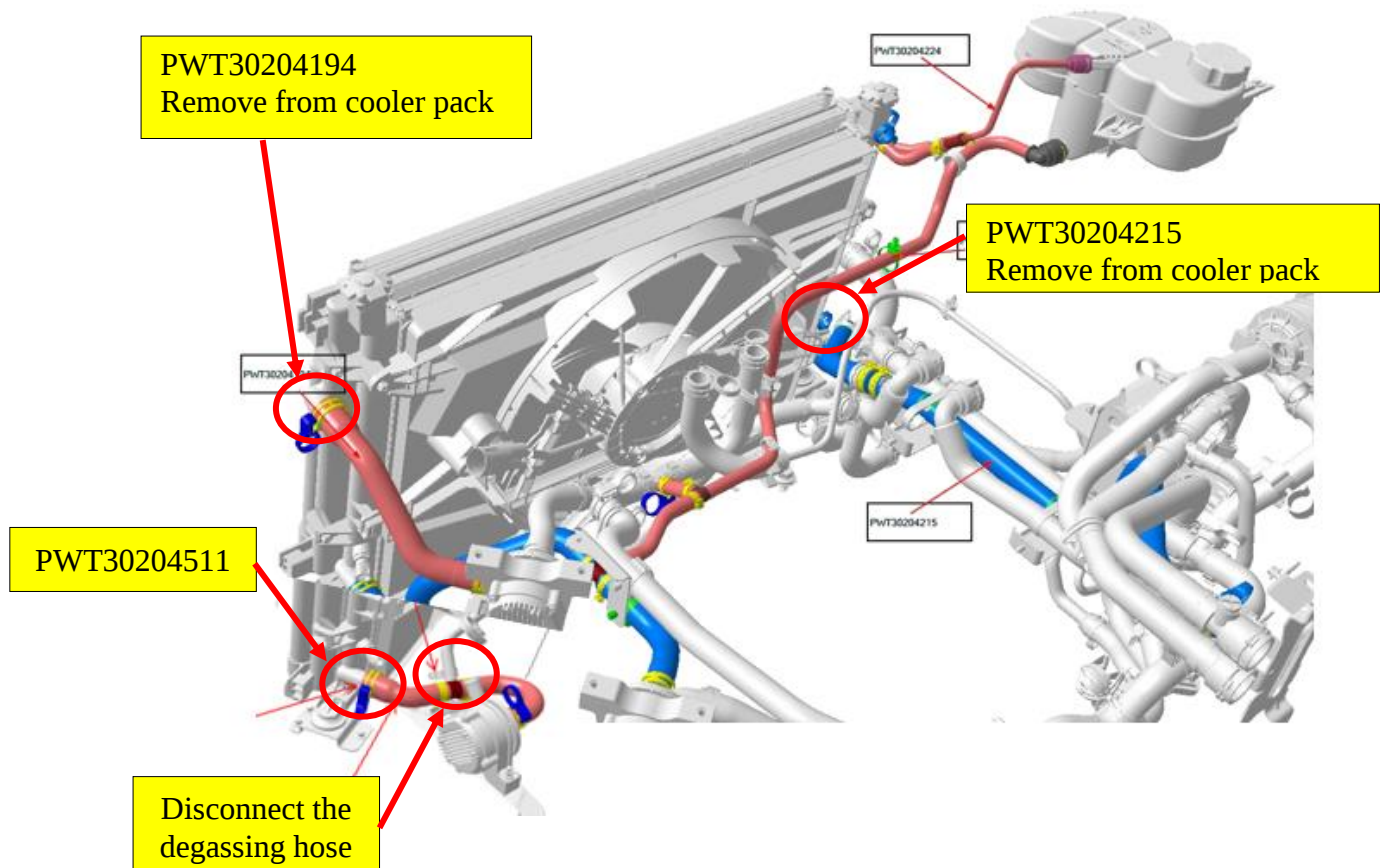


- i. Connect the HOSE-BATTERY_VENTING_BLOCK as shown in below figure.
[Part Number: PWT30204404]

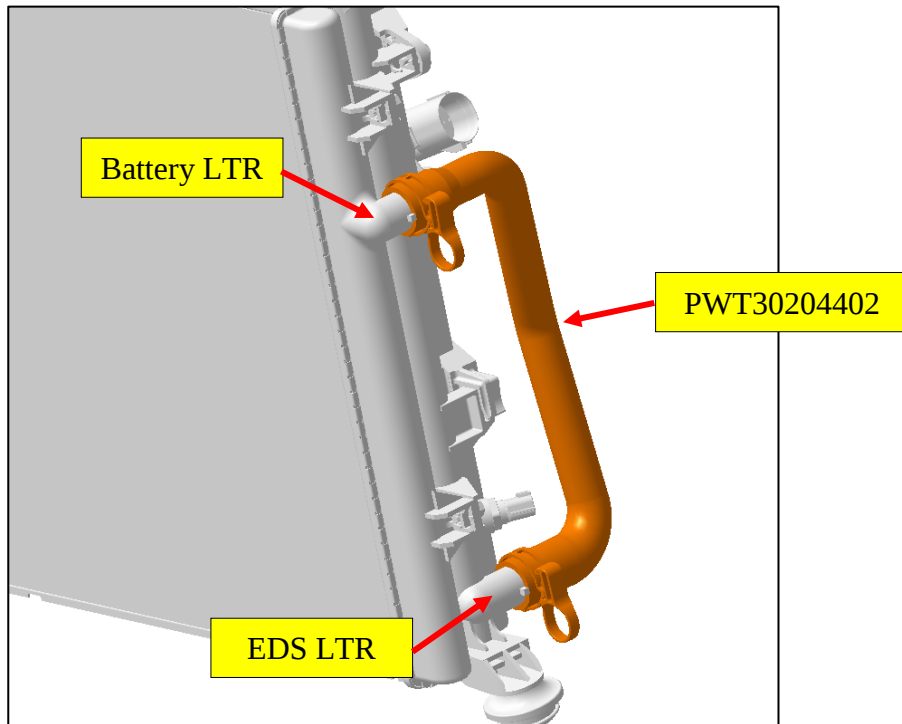


Step 6: Lift up the Car & replace with new hoses

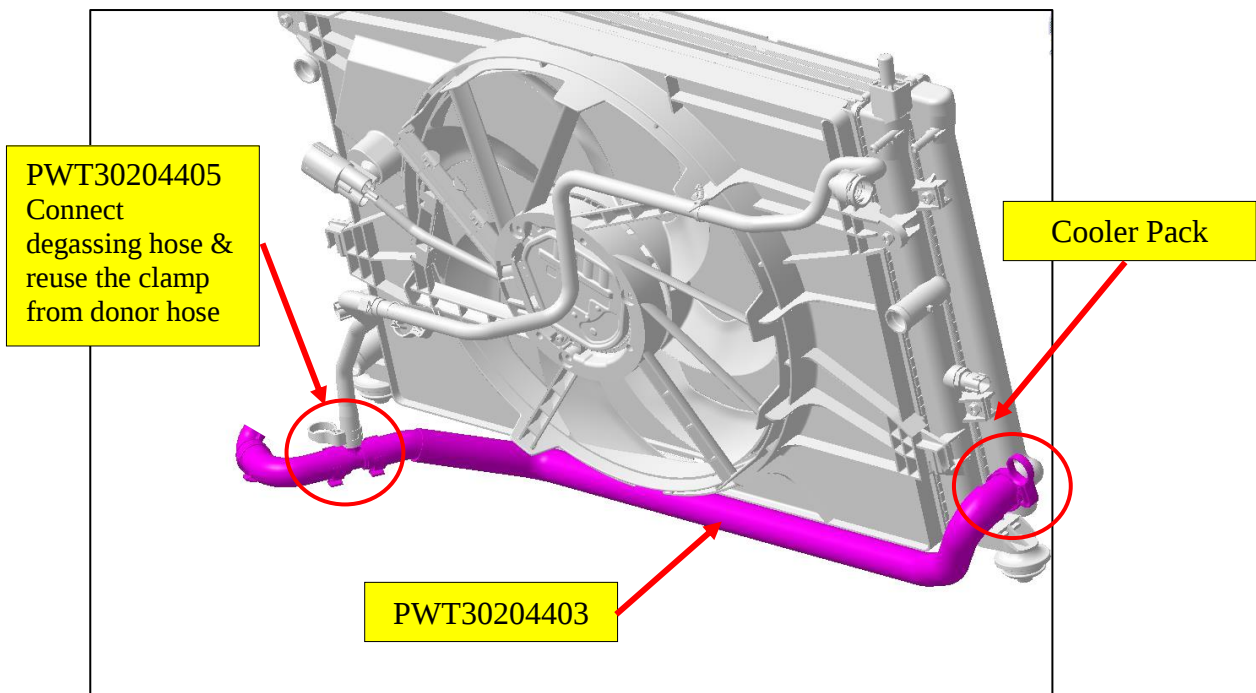
- i. Lift-up the car & remove connection hoses [PWT30204194, PWT30204215 & PWT30204511] from the vehicle as shown in below figure, and discard it.



- ii. Connect the HOSE_EDS_LTR_TO_BATTERY_LTR as shown in below figure.
[Part Number: PWT30204402]

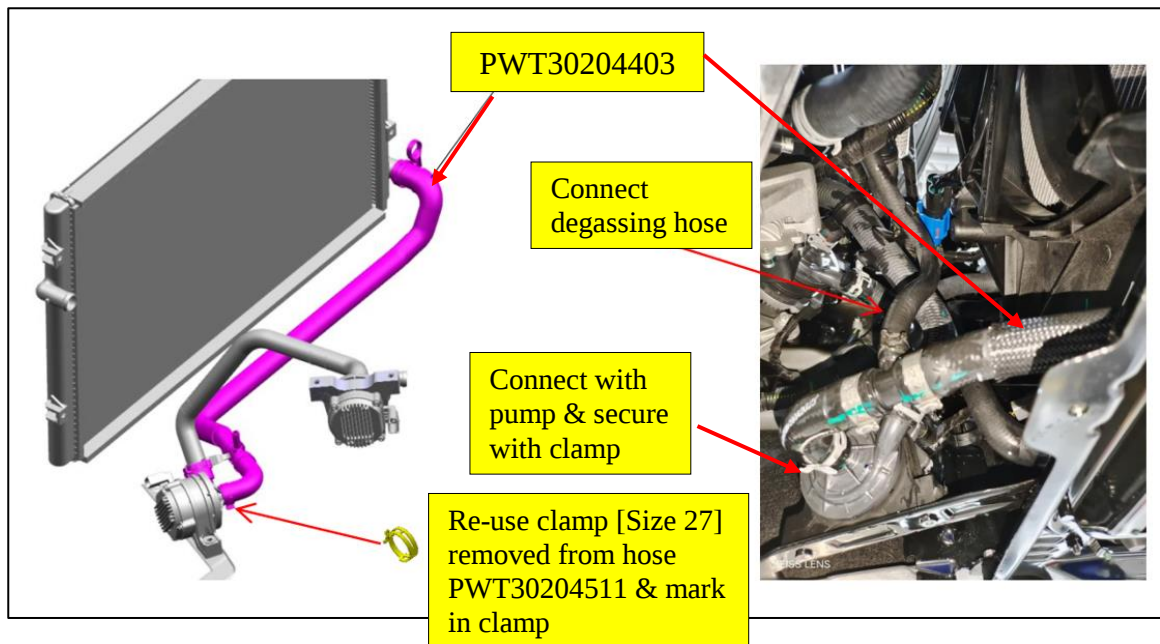


- iii. Connect the HOSE_BATTERY_LTR_TO_PUMP_4 to Cooler Pack as shown in below figure.
[Part Number: PWT30204403]



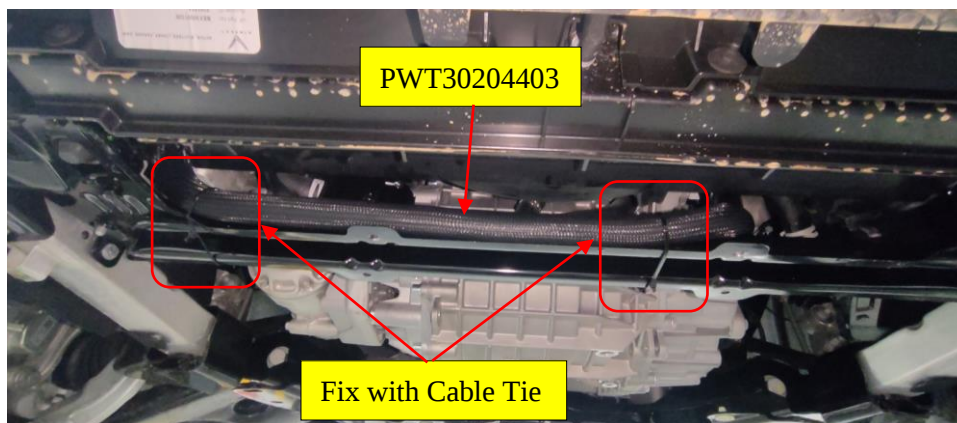
- iv. Connect the HOSE_BATTERY_LTR_TO_PUMP_4 to pump as shown in below figure.
[Part Number: PWT30204403]

Attention: Check for clamp size 27 & mark in the clamp for the hose [PWT30204403]



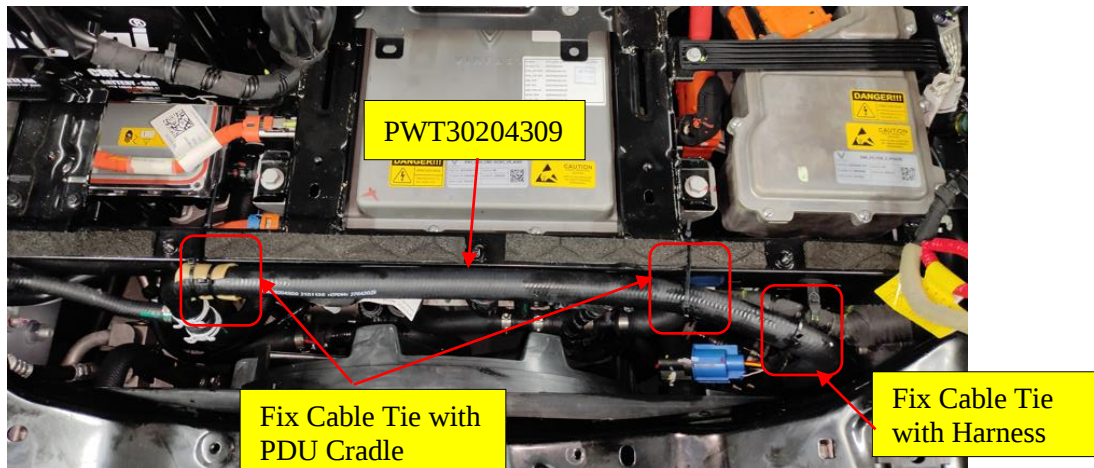
Step 7: Fix hoses with cable tie & Install the parts

- i. Fix the hose [PWT30204403] with two cable ties as shown in below figure.



- ii. Install Front Bumper Fascia Skid Plate and Underbody Front Air Shield by following the reverse method of above removal procedure.

- iii. Lift down the vehicle & fix the hose [PWT30204309] with three cable ties as shown in below figure.



Step 8: Filling the coolant

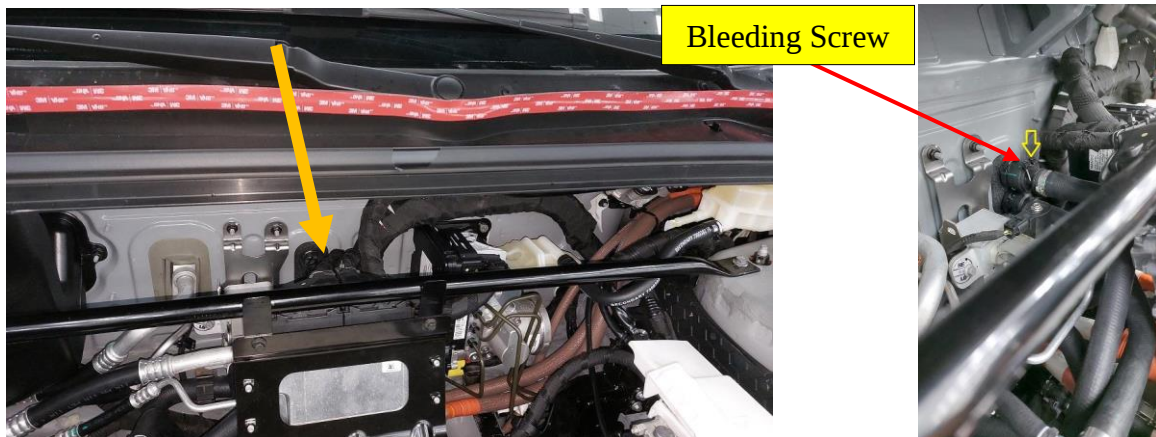
- i. Fill the coolant in the vehicle & refer to [Cooling System Draining and Filling \(HV Battery and eMotor\) – 1004690](#)

Coolant:	
Specified Manufacturer	PRESTONE®
OEM release	ASTM D3306
Specified type	AF2100
VF part number	FLU20050001
Fill volume	18.25 L ¹
Mixture	50 % glycol & 50 % water ²

Step 9: Inspection

Important: Vehicle stay on lift so that the tires are not grounded to “run” the Vehicle

- i. Start the vehicle & accelerate at low speed by shifting to ‘D’ mode (3 water pumps will start to work)
- ii. Open the bleeding-screw only to see the bubbles coming out.



- iii. Keep monitoring & approximately after 10 minutes, can see coolant comes out (without any bubbles), and then close the bleeding-screw.
- iv. Now, Coolant-System should be OK

Step 10: Install the remaining parts

- i. Install Front trunk by following the reverse method of above removal procedure.
- ii. Connect 12V Battery Negative Cable by following the reverse method of above removal procedure.
- iii. Activate the High Voltage system by following the reverse method of above removal procedure.

Step 11: Drive the Vehicle

- i. Drive the vehicle for 10~15 minutes with the Maximum A/C ‘ON’ to witness the increase in cooling performance inside the cabin.
- ii. During driving, also check for rattle noise from newly installed hoses with other mating parts & fix it properly in case of any.

Step 12: Finish

4.0) Parts Information

Service parts applicable to this bulletin.

SNo	Part Description	Part Number	Quantity/Vehicle
1	HOSE_PUMP_2_TO_BATTERY_CHILLER	PWT30204307	1
2	HOSE-EXPANSION_TANK_VENTING	PWT30204308	1
3	HOSE-PUMP_2_OUTLET	PWT30204309	1
4	HOSE_EDS_LTR_TO_BATTERY_LTR	PWT30204402	1
5	HOSE_BATTERY_LTR_TO_PUMP_4	PWT30204403	1
6	HOSE-BATTERY_VENTING_BLOCK	PWT30204404	1
7	COOLANT	FLU20050001	Only if required

5.0) Warranty Claim Information

The following warranty claim information applies to this bulletin:

Labour Code	Description	Hour(s)
99300100	VF8 Cabin Cooling performance increase rework	2 hours