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Major System: ELECTRIC VEHICLE Created: 7/25/2022  
Current Language: English Last Modified: 7/25/2022  
Other Languages: NONE Author: Josh Bowman  
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Coding Information

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Title: eMV BTMS Coolant Lines Unsupported

Applies To: eMVs

## CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

07/25/2022 - Initial Article Release

## DESCRIPTION

Certain eMVs built prior to 6/13/2022 may experience the upper Battery Thermal Management System (BTMS) coolant line sagging more than desired. This document will guide the user to correct this sag by adding in a bracket and saddle.

## SYMPTOM

Diagnostic Trouble Code(s) & Dashboard Indicator Lights:

DTC/Light	Description
N/A	N/A

Customer Observations or Concerns:

Upper BTMS coolant hose sagging more than desired





## SPECIAL TOOLS / SOFTWARE

Tool Description	Tool Number	Comments	Instructions
N/A	N/A	N/A	N/A

## SERVICE PARTS INFORMATION

Kit Description	Part Number	Quantity Required	Notes
EXTENSION, CLIP	3515491C1	1	
GUIDE, HOSE AND CABLE SADDLE, 2-WAY	3553742C1	1	
STRAP, CABLE LOCK, 250 NO. 20 IN.	3626607C1	1	
BOLT M6 X 25	31047R1	2	
FLATWASHER, 5/16 (0.344 X 688 X 08	25708R1	2	
NUT, HEX, FLANGE, METRIC, M6 PHC FIN	31081R1	2	

## **DIAGNOSTIC STEPS**

 <b>WARNING:</b>	
To prevent property damage, personal injury, and / or death, park vehicle on a hard, flat surface, turn the engine off, set the parking brake, and install wheel chocks to prevent the vehicle from moving in either direction.	
 <b>WARNING:</b>	
To prevent personal injury or death, NEVER service a high-voltage vehicle without completing high-voltage safety training. Before working on vehicle, read and obey all High-Voltage Safety and Lock-Out Tag-Out procedures and information.	
 <b>WARNING:</b>	
To prevent personal injury or death, wear and use approved high-voltage Personal Protective Equipment (PPE) when near a high-voltage electric vehicle. Inspect PPE before use. Do not use gloves or other PPE with expired dates, holes, cracks or damage. NEVER touch energized orange high-voltage cables or high-voltage components without wearing approved high-voltage PPE.	
 <b>WARNING:</b>	
To prevent personal injury or death, read all information in the Safety Information and High-Voltage Safety sections of the service manual.	

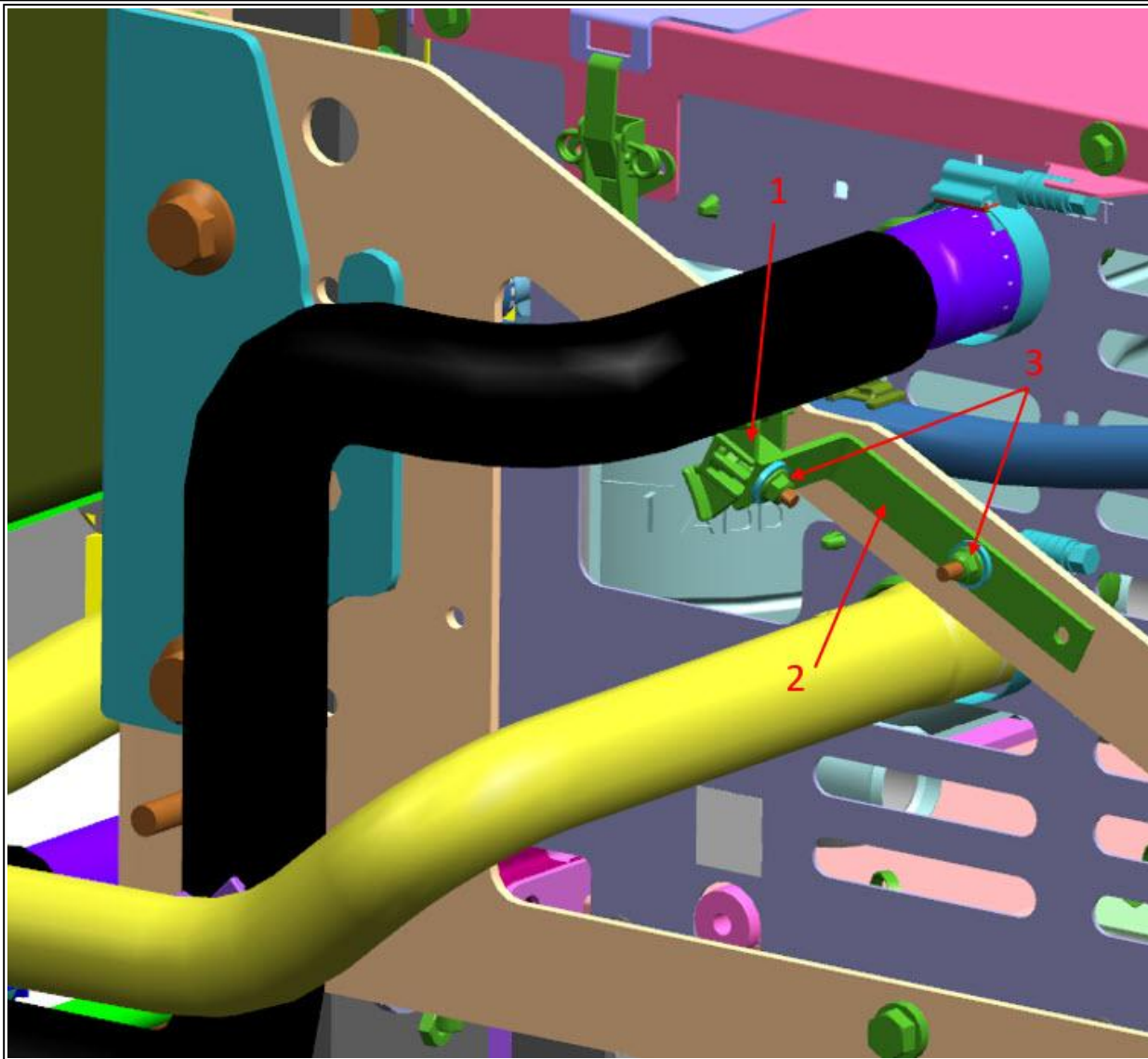
Step	Action	Decision
1	<b>DIAGNOSTIC:</b> Is the eMV in question built prior to 6/13/2022	<b>Yes.</b> Proceed to step 2
		<b>No.</b> No action needed

Step	Action	Decision
2	<b>DIAGNOSTIC:</b> Is the upper BTMS coolant line sagging or touching the BTMS support bracket?	<b>Yes.</b> Install bracket and saddle assembly

No. No action needed at this time

## REPAIR STEPS

1. Bring vehicle into shop and park on a flat surface
2. Shift transmission into park or neutral, set parking brake
3. Turn ignition to Key OFF position
4. Install Wheel Chocks



**Figure 1: Support Bracket and Saddle**

Item 1: Saddle

Item 2: L Bracket

Item 3: Bolt, washer, nut assembly

5. Install extension clip with saddle, using the mounting hardware to secure.
6. Once Installed, secure the upper BTMS coolant hose using tie strap around the saddle.
7. Remove Wheel chocks

8. Return vehicle back to service

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## **WARRANTY INFORMATION**

### **Warranty Claim Coding:**

Refer to the [Warranty Coding Manual](#) for Group and Noun Codes.

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### **Standard Repair Time(s):**

Refer to the [SRT Manual](#) for Repair Times

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## **OTHER RESOURCES**

[Master Service Information Site](#)

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