



Countries: CANADA, UNITED STATES Document ID: IK2300015  
 Availability: ISIS, IsSIR Revision: 0  
 Major System: ELECTRIC VEHICLE Created: 3/7/2023  
 Current Language: English Last Modified: 3/8/2023  
 Other Languages: NONE Author: Josh Bowman  
 Viewed: 85

[Less Info](#)

Hide Details

Coding Information

Copy Link 	Copy Relative Link 	Bookmark  <a href="#">View My Bookmarks</a>	Add to Favorites 	Print 	Provide Feedback 	Helpful  1	Not Helpful  0
---------------	------------------------	---	----------------------	-----------	----------------------	------------------	----------------------

Title: Electric Vehicle Coolant Pipe Contact

Applies To: Electric CE Buses

## CHANGE LOG

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

03/08/2023 - Initial Article Release

## DESCRIPTION

Certain Electric CE Buses may be found with under chassis coolant pipes making contact. This contact **does not** result in a failure, nor does it violate any Federal Motor Vehicle Safety Standards (FMVSS) or California Code of Requirments (CCRs), however there may be subjective concerns brought up around the coolant pipe contact. If those concerns are raised to pass any state inspection, this document will guide the user through the proper steps to provide the separation needed.

## SYMPTOMS

Diagnostic Trouble Codes & Dashboard Indicator Lights:

DTC/Light	Description
N/A	

Customer Observations or Concerns:

None - State inspector(s) may deem the under chassis coolant pipe contact not acceptable



Figure 1: Examples of coolant pipe contact

## SPECIAL TOOLS / SOFTWARE

Tool Description	Tool Number	Comments	Instructions
N/A			

## SERVICE PARTS INFORMATION

Kit Description	Part Number	Quantity Required	Notes
STRAP, CABLE LOCK DUAL CLAMP TIE 19.2"	3535873C1	3	

## REPAIR STEPS

**WARNING!** To prevent personal injury and / or death, or damage to property, park vehicle on hard flat surface, turn the engine off, set the parking brake, and install wheel chocks to prevent the vehicle from moving in both directions.

**WARNING!** To prevent personal injury and / or death, always wear safe eye protection when performing vehicle maintenance.

**WARNING!** To prevent personal injury and / or death, or damage to property, keep flames or sparks away from vehicle and do not smoke while servicing the vehicle's batteries. Batteries expel explosive gases.

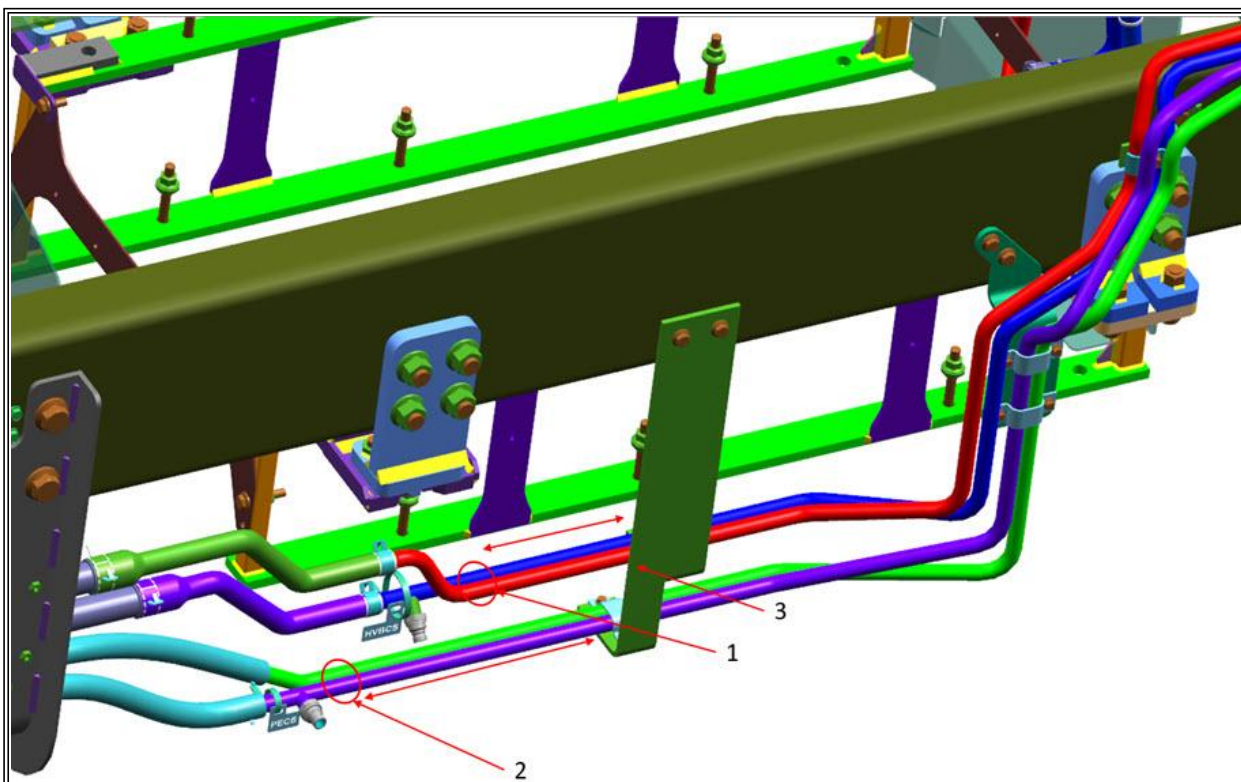
**WARNING!** To prevent personal injury and / or death, NEVER service a high voltage vehicle without completing high-voltage safety training. Before working on vehicle, read and obey all High-Voltage Safety and Lock-Out Tag-Out procedures and information.

**WARNING!** To prevent personal injury and / 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.

**WARNING!** To prevent personal injury and / or death, read all information in the Safety Information and High-Voltage Safety sections of the service manual.

**WARNING!** To prevent personal injury and / or death, or damage to property, remove the ground cable from the negative terminal of the battery box before disconnecting any electrical components. Always connect the ground cable last.

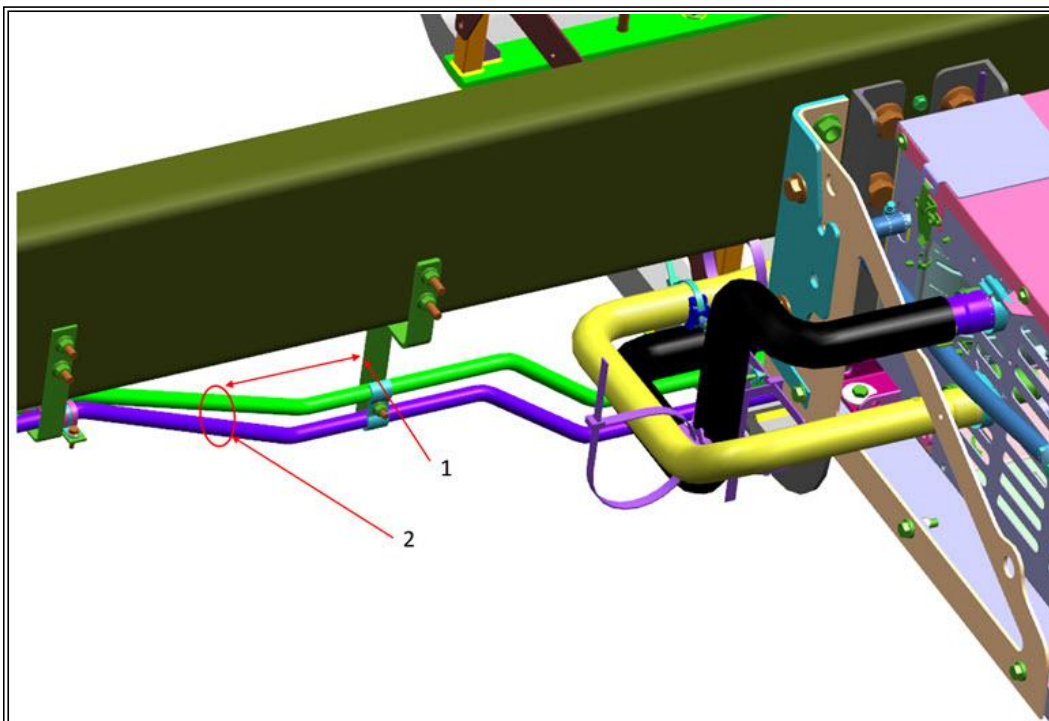
1. Bring vehicle into shop area and park vehicle on a dry level surface.
2. Shift transmission into Park or Neutral and set parking brake.
3. Turn ignition to Key OFF position
4. Install wheel chocks.
5. For strap location #1 (Figure 2, Item 1), measure 5" (127mm) from the leading edge of support (Figure 2, Item 3) and install cable strap (PN 35358731)
6. For strap location #2 (Figure 2 Item 2), measure 12" (305mm) from the leading edge of support (Figure 2, Item 3) and install cable strap (PN35358731)



**Figure 2: Cable Strap Locations 1 & 2**

- Item 1: Cable Strap Location #1 (3535873C1)
- Item 2: Cable Strap Location #2 (3535873C1)
- Item 3: Support Bracket

7. For strap location #3 (Figure 3, Item 2), measure 9" (228mm) from the leading edge of support (Figure 3, Item 1) and install cable strap (PN 35358731)



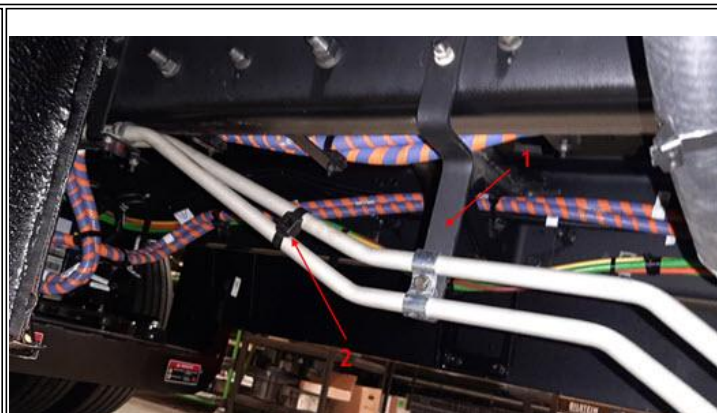
**Figure 3: Cable Strap Location 3**

- Item 1: Support Bracket
- Item 2: Cable Strap Location #3 (3535873C1)



**Figure 4: Installed Cable Straps Location 1 & 2**

- Item 1: Cable Strap Location #1 (3535873C1)
- Item 2: Cable Strap Location #2 (3535873C1)
- Item 3: Support Bracket



**Figure 5: Installed Cable Strap Location 3**

- Item 1: Support Bracket
- Item 2: Cable Strap Location #3 (3535873C1)

8. Remove wheel chocks and return to service

## **WARRANTY INFORMATION**

Correcting the under chassis coolant pipe contact is not a warrantable repair.

### **Warranty Claim Coding:**

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

### **Standard Repair Times:**

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

## **OTHER RESOURCES**

[Master Service Information Site](#)

Viewed: 84  
Helpful: 1  
Not Helpful: 0

No Feedback Found