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Viewed:	114		

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Title: Electric Vehicle Windshield Fogging

Applies To: Electric CE Buses

CHANGE LOG

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

03/03/2023 - Initial Article Release

DESCRIPTION

Electric CE buses may experiance humidity building up on the windshield during certain ambient temperatures. The current cabin heat enablement threshold is set too low for heater operation to remove humidity during these conditions.

This document will guide the user through updating the VCU calibration, raising the enablement thresehold from 70F to 90F allowing the operator to defog the windshield.

NOTE:
If your vehicle is built between 10/13/2020 - 2/9/2022, please do not perform this update without opening a technical service case file. Additional modules will need to be replaced before the vehicle will support this calibration level.

SYMPTOMS

Diagnostic Trouble Code(s) & Dashboard Indicator Lights:

DTC/Light	Description
N/A	

Customer Observations or Concerns:
Windshield fogging / humidity buildup

SPECIAL TOOLS / SOFTWARE

Tool Description	Tool Number	Comments	Instructions

Battery Charger	PSC550CC	55 Amp	
EZ-Tech® or EST	N/A	w/Service Diagnostics Solutions (SDS) Software	

SERVICE PARTS INFORMATION

Kit Description	Part Number	Quantity Required	Notes
N/A	N/A	N/A	

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 highvoltage cables or high-voltage components without wearing approved highvoltage 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. Connect battery charger / maintainer to vehicle 12v battery.
6. Connect interface to 9 PIN (J1939).
7. Collect a health report by selecting **ARRIVAL** in **HEALTH REPORT – SCAN CHECKPOINT** box.

8. Clear any inactive / **PREVIOUSLY ACTIVE** fault codes by selecting **FAULTS** button in action bar.

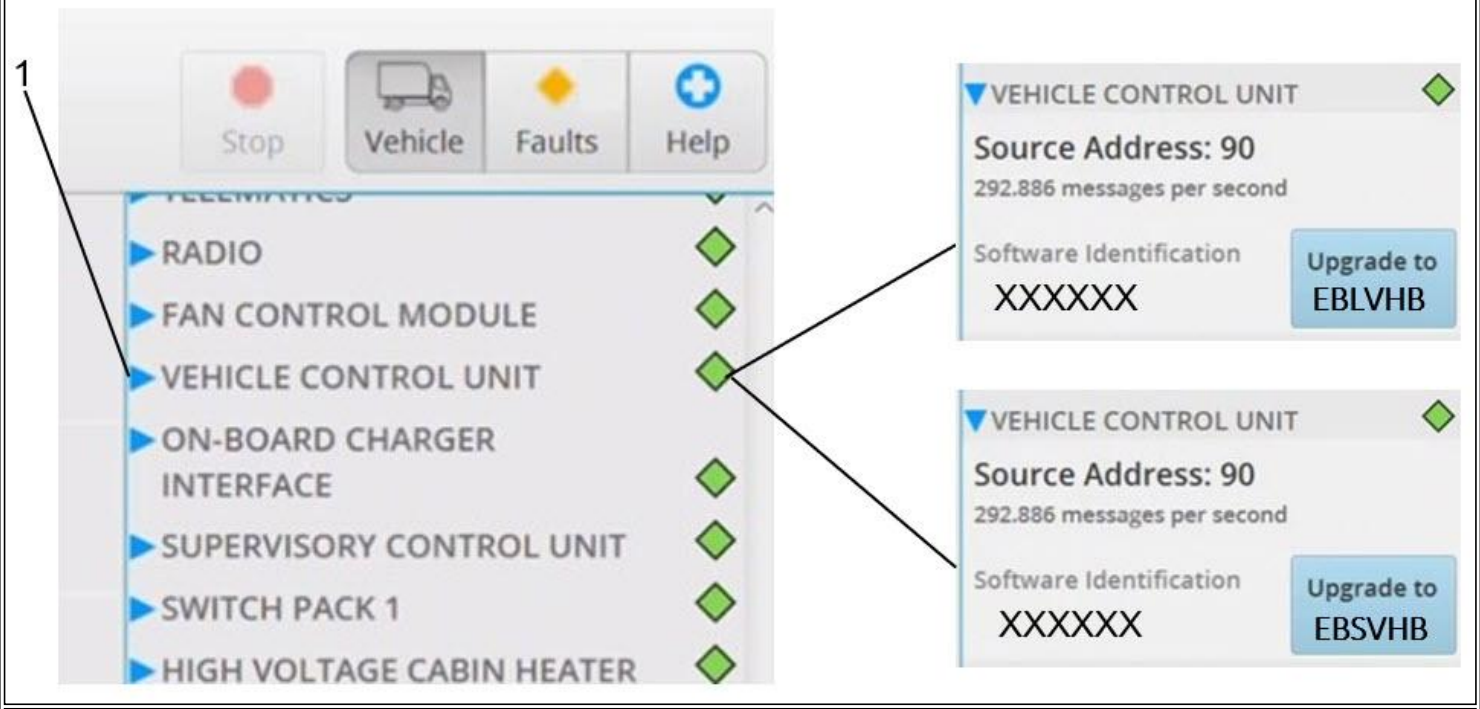

Figure 1: SDS Screenshot (example)

Item 1: Vehicle Control Unit

9. On the right hand of the software under **Vehicle** information a list of modules will be displayed scroll down, and look for Vehicle Control Unit (**Figure 1, Item 1**).

10. Click the blue triangle to expand the view for more options.

NOTE:

The software should automatically display the correct upgrade software
EBLVHB - Long wheelbase
EBSVHB - Short wheelbase
If the software identification does not match, please open a technical case file

11. Click the tab **Upgrade to** and let the software to perform the software upgrade.

NOTE:

Once the software update is completed, the SDS tool will automatically reset the system and reconnect to the vehicle.

12. Disconnect the interface connector from 9 PIN (J1939).

13. Disconnect battery charger / maintainer to the vehicle 12v battery.

14. Remove wheel chocks and return to service.

WARRANTY INFORMATION

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

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