

04/01/2024
CAL FTL 54-033

Subject: Red LV Battery Telltale Present on Startup

Make: Freightliner

Model: eCascadia and eM2

Model Year Affected: 2023-2025

Build Date Range: Selected vehicles built between September 6, 2022 and October 6, 2024.

Our records indicate that you are the owner of certain Freightliner electric vehicles; therefore, DTNA has decided to share the following documentation with you.

Please see the attached communication in this email. We hope you find this information helpful.

General Information

Note: The red battery telltale is typically accompanied by a pop-up message that reads 'LV CIRCUIT, BATTERY PROBLEM DETECTED, SERVICE NOW,' along with the ECPC fault code SPN 517087/ FMI 14.

The red battery telltale typically indicates that the low voltage (LV) 12V batteries were at a low state of charge when the vehicle was turned ON. When this telltale is on, there is a risk of certain LV components operating in a protection mode and/or not receiving power at all. While the vehicle can be driven in this state, some components may not be functioning correctly, and the vehicle could be damaged. See **Fig. 1** and **Fig. 2**.



Fig. 1: Red Battery Telltale on a Dashboard



Fig. 2: Red Battery Telltale

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If the red LV battery telltale is illuminated while the vehicle is in the 'READY' state, follow these steps to determine whether the LV batteries require service:

1. **Avoid driving at high speeds:** It is acceptable to move the vehicle around or take it into a service bay.
2. **Keep the vehicle ON:** Allow the vehicle to remain in the Powertrain 'READY' state for up to 30 minutes while it is parked and idling. This allows the on-board DC/DC converter to charge the LV batteries.
3. **Cycle the keyswitch:** After idling for a period, turn the keyswitch OFF. Wait until the instrument cluster has gone completely dark, and then turn the vehicle back ON. If the LV batteries and associated components can recover to normal function, the red battery telltale will not be illuminated after the keyswitch is cycled, and the vehicle can be driven normally.
4. **Repeat the steps if needed:** If the red battery telltale remains on after cycling the keyswitch, repeat the above steps at least once more. If the telltale continues to remain active even after giving the LV batteries time to recover, it may be necessary to replace the LV batteries.