

04/14/2023
CAL FTL 54-029

Subject: Low Voltage (LV) Battery Maintenance

**Models Affected: eCascadia vehicles built from May 2022
through July 2023.**

Our records indicate that you are the owner of certain eCascadia vehicles and therefore DTNA has decided to share the following documentation with you.

eCascadia vehicles are susceptible to a no-start condition, due to degraded and/or depleted LV batteries. Follow the work instructions to reduce the impact of this issue.

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

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Work Instructions

1. Park the vehicle on a level surface, shut down the engine, and set the parking brake. Chock the tires.
2. If the vehicle is parked and **not** connected to a charger, make sure to turn OFF the smart battery shut-off switch, shown in **Fig. 1**. The switch is located to the rear of the driver's seat, on the door side.

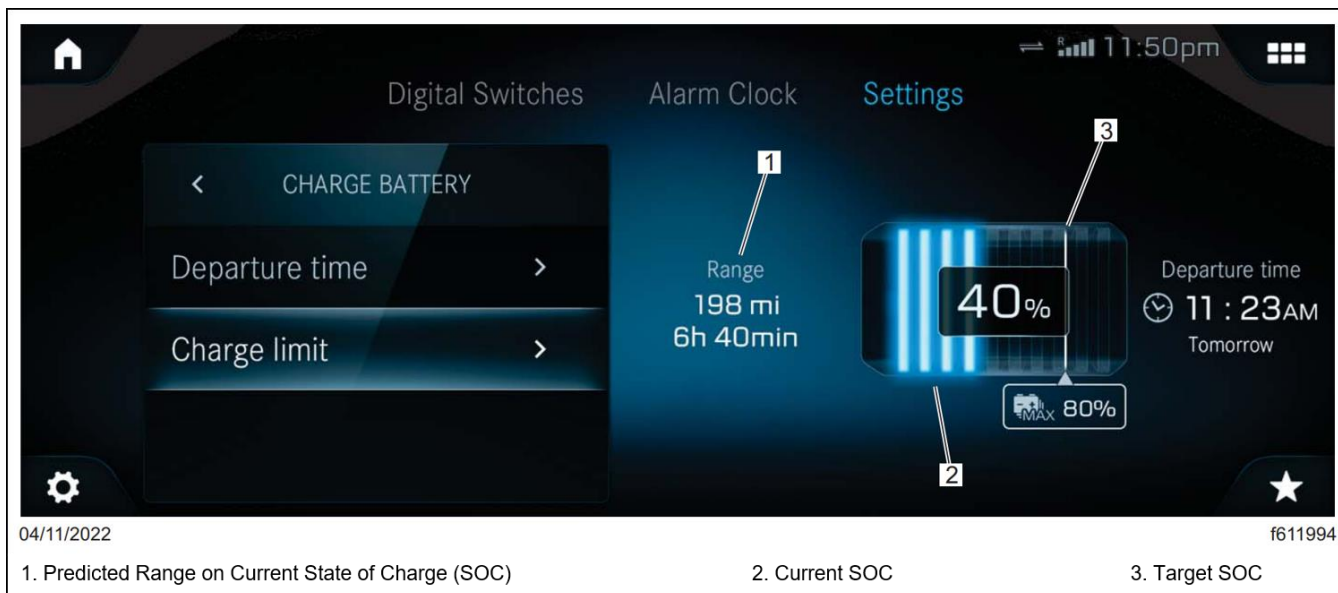
IMPORTANT: To avoid accidental activation, the switch must be pressed and held for one second.



Fig. 1, Smart Battery Shut-Off Switch

3. If the vehicle is connected to the charger, and is going to remain connected until the next time it is driven, select 'Departure time' under the 'CHARGE BATTERY' settings menu to set the anticipated start of the next shift. See **Fig. 2** and **Fig. 3**.

Setting the departure time will allow the vehicle to keep high voltage ON, and maintain the LV batteries for up to 48 hours. For detailed instructions, see **Chapter 10** of the *eCascadia Driver's Manual*.



1. Predicted Range on Current State of Charge (SOC)

2. Current SOC

3. Target SOC

Fig. 2, Charge Battery Screen

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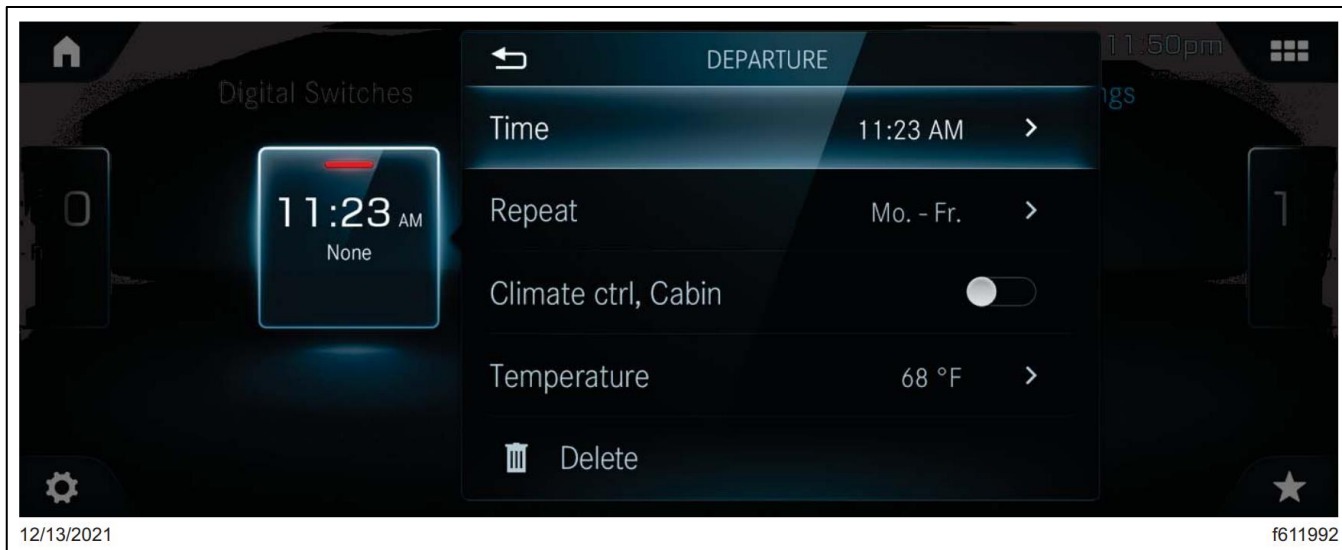


Fig. 3, Preconditioning Menu Options

- 3.1 Alternatively, if the vehicle is charging in a location where it is safe to do so, leave the ignition key in the ON position to charge the LV batteries indefinitely.

CAUTION:

To avoid injury from electrical shock, use care when connecting the battery cables. The magnetic switch studs are at battery voltage.

4. If the vehicle is parked for an extended period (longer than a week), without being driven, disconnect the LV battery cables, or attach a trickle charger to the 12V jump-start posts. The jump-start posts are located under the hood, on the passenger side of the vehicle. See [Fig. 4](#) and [Fig. 5](#).

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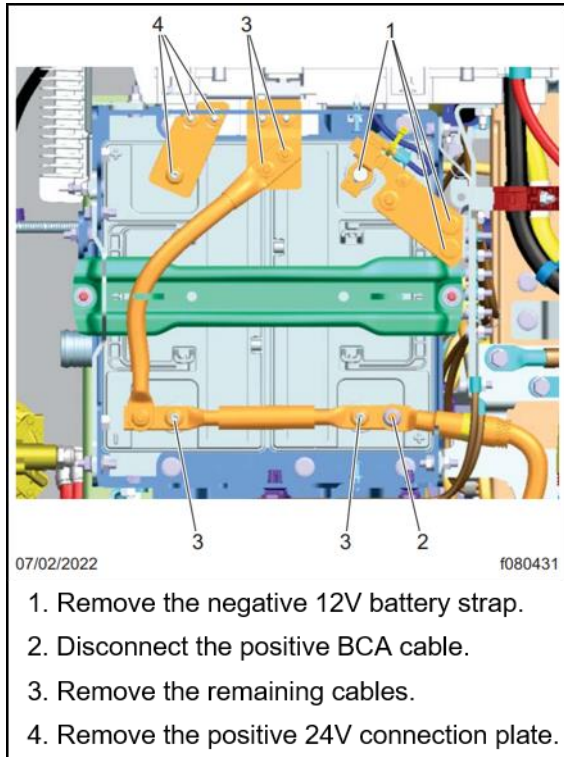


Fig. 4, LV Battery Disconnect Process



Fig. 5, Positive and Negative Posts on the Electric Vehicle Distribution Module (EVDM)

NOTE: If the LV batteries need to be replaced, make sure to use the originally specified Odyssey/NorthStar Group 31 AGM Pro-series batteries. If a 12V battery other than the specified type is used, the calibration may not match, and as a result, the battery sensor may cause fault messages and other irregular behavior. **A66-06013-000** or **A66-06013-002** are the only batteries that will work correctly with the battery sensor on an eCascadia vehicle.