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Case Number: S2503000003

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Symptom/Vehicle Issue: Rear Axle Locker Inoperative, Service Axle Locker Message Displayed.

Discussion: Some customers may experience a, inop rear axle locker, and Service Axle Locker message. After further investigation, the technician may not find any diagnostic trouble codes (DTCs) set. However, intermittently, they may find the following DTCs set in the Drivetrain Control Module (DTCM).

- C141C-11 Rear Differential Control Circuit Short To Ground.
- C141C-13 Rear Differential Control Circuit Open.

If the technician is working on a vehicle with the above condition, please perform the repair procedure below.

Repair Procedure:

1. Remove the rear differential cover.
2. Inspect the e-locker actuator wiring harness for damage due to contact with the differential. Please see (**Figures 1 & 2**).

This document does not authorize warranty repairs. This communication documents a record of past experiences. STAR Online does not provide any conclusions about what is wrong with the vehicle. Rather, it captures all previous cases known that appear to be similar or related to the vehicle symptom / condition. You are the expert, and you are responsible for deciding on the appropriate course of action.

Contact STAR Center, or your Technical Assistance Center Via TechConnect, eCONTACT or Service Library entry if no solution is found.



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Figure 1



Figure 2

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3. If the wiring insulation was found rubbed through, but the wiring is still intact, please repair the wiring per normally wiring repair guidelines. Be sure to secure the wiring so that it no longer contacts the differential.
4. If the wires were found cut, please replace the e-locker actuator.

NOTE: The e-Lock differential lock actuator is available as a separate service part from the differential and axle assembly. DO NOT replace the differential assembly or complete axle if the actuator requires replacement.

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