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Case Number: S2121000017 REV. A

Release Date: November 2021

Symptom/Vehicle Issue: Drivetrain Control Module (DTCM) Diagnostic Trouble Code (DTC) C2201-49 – FDCM/DTCM Internal Electronic Failure, set.

Discussion: Reports are coming in from the field of DTC C2201-49 setting in the DTCM. This DTC may or may not be accompanied by a Malfunction Indicator Lamp (MIL) illumination and/or Service 4WD message on the IPC.

Further analysis of the condition has shown that the possible cause of this DTC is due to a repeated loss of power/ground to the DTCM (such as repeated battery disconnects or loose connections) causing an incomplete shutdown of the module.

A loose ground G910A connection, which can cause this DTC, may also cause one or more of the following DTCs to set.

- P1614-00 – ECU Reset/Recovery Occurred
- P032F – Combustion Engine Producing Insufficient
- U0101-00 – Lost Communication with TCM
- U11C3-00 – ESM Lost Communication with TCM on D-PT CAN
- U0402-00 – Implausible Data Received from TCM
- C2227-00 – ABS Disabled ECU

If this DTC is set due to a loss of power/ground, the DTCM may require multiple sleep cycles in order for the DTC to be completely cleared. If you receive a vehicle in with this DTC, please perform the following repair procedure prior to replacing any parts.

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 or eCONTACT ticket if no solution is found



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Repair Procedure:

1. Closely inspect ground G910A for being loose, and repair as necessary. Ground G910A is located on the passenger side of the engine compartment, on the outside body rail. It can be identified by the green tape wrapped around the harness. Please see (Figure 1 & 2.). G910A can be accessed through the passenger front wheel well.

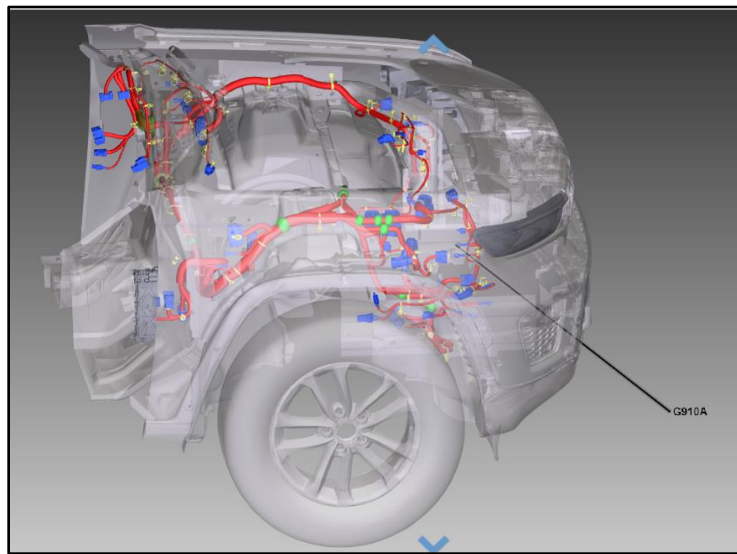


Figure 1.

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Figure 2.

2. Closely inspect the vehicle harness, and all DTCM connections for being loose or damaged which could lead to a loss of power/ground to the DTCM. Repair as necessary.
3. Perform the following steps and attempt to clear the DTC.
 - a. Turn off the ignition, and remove all keys/key fobs from the vehicle.
 - b. Close all doors.
 - c. Let the vehicle sit while observing the PRNDL lights on the IPC.
 - d. Once the PRNDL lights have turned off, turn the ignition to run.
 - e. Repeat steps **a-d**, a minimum of 2 more times.
 - f. Attempt to clear the DTCs.
4. Did DTC C2201-49 clear?
 - a. Yes>>> Vehicle is now repaired. No further action is required.
 - b. No>>> Replace the DTCM.

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