

Uncontrolled Copy

ID # CBR-2483

Version 2

Title

DL6 CAN Bus Resistance Out of Specification

Abstract

This CBR solution outlines the diagnosis and resolution of a DL6 CAN bus resistance issue, where a 40-ohm reading causes ELD communication failure, corrected by disconnecting the SCIM A262.D connector.

Content

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Valid For

Mack Chassis - PR (4)

Volvo Chassis - VN (4)

Model Year - 2025

Overview

This bulletin addresses an issue found in the DL6 CAN network where the measured resistance is **40 ohms**, deviating from the expected **60 ohms**. This mismatch can result in the **Electronic Logging Device (ELD)** either receiving incomplete CAN messages or none at all, leading to functional communication issues.

Symptom

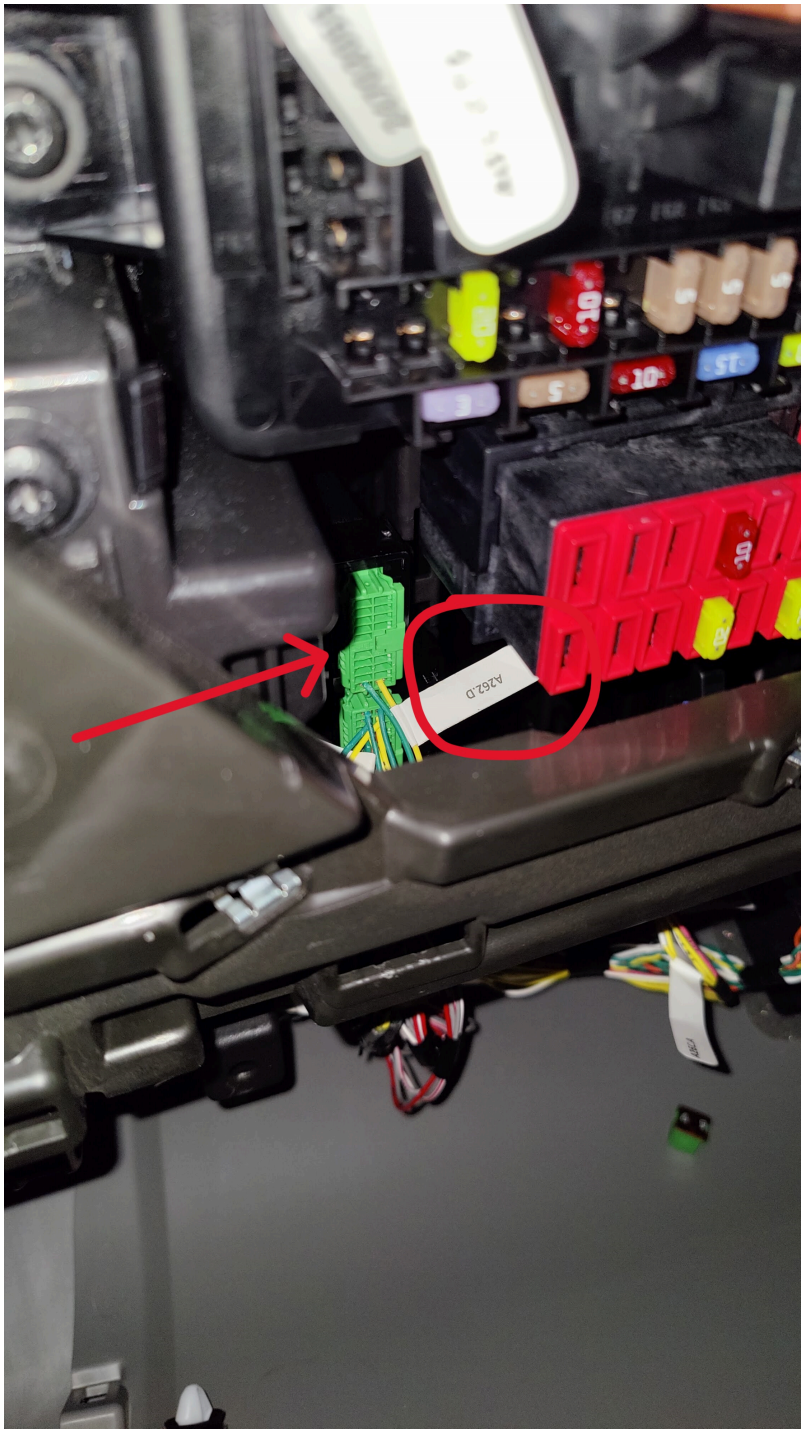
- Diagnostic Trouble Code (DTC) **U200388 – FMS Bus Off** is active.
- The ELD may exhibit:
 - Intermittent or complete communication loss.
 - Failure to record or transmit data from the vehicle.
- CAN bus resistance measured at the **SCIM (Security & Cab Interface Module)** connector **A262.D** across pins **1 & 9** shows a reading of **40 ohms**, indicating an incorrect termination resistance.

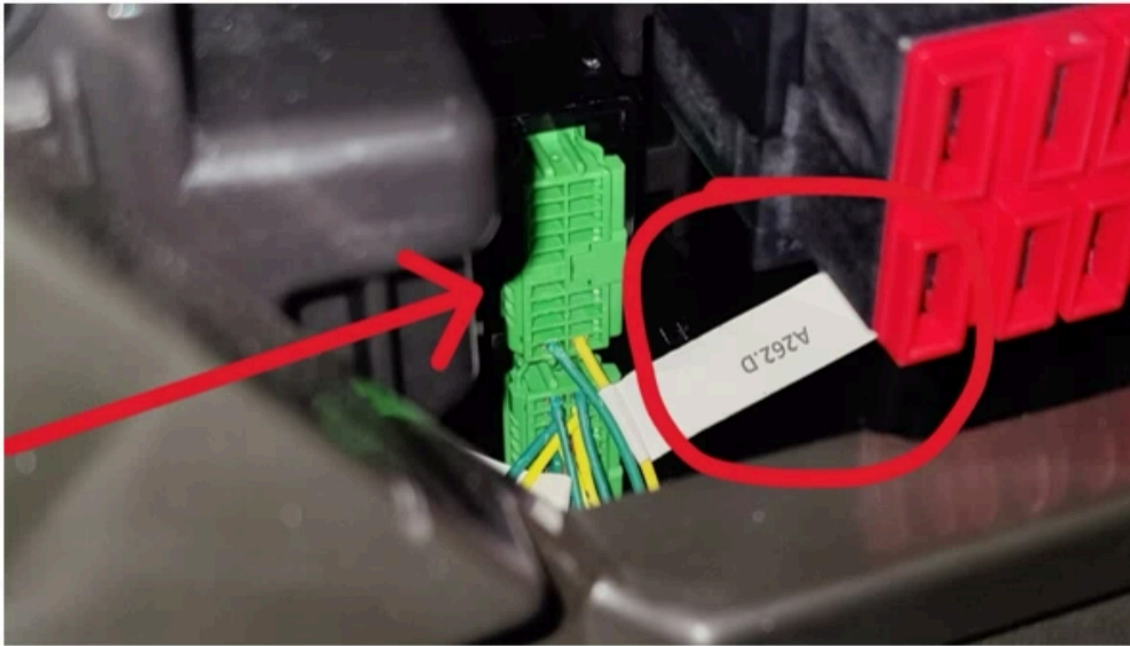
Cause

- The reduced resistance is due to an unintended parallel termination on the **DL6 CAN** circuit.
- Connector **A262.D** on the SCIM introduces additional termination load, skewing the network impedance.









Corrective Action

Step 1: Verify Resistance

- Disconnect the ignition power.
- At the **SCIM**, locate **connector D (A262.D)**.
- Measure resistance across **pins 1 and 9**.
- If the reading is **~40 ohms**, proceed to Step 2.

Step 2: Isolate Problem Circuit

- **Disconnect connector A262.D from the SCIM.**
- Secure and tie back the connector safely, ensuring it does not contact any other surfaces or harnesses.

Step 3: Confirm Repair

- Recheck resistance across **pins 1 & 9** of the SCIM.
 - Resistance should now read **~60 ohms**.
- Clear the DTC if present.
- Power up the system and confirm that ELD communication has resumed.

Tags

mack

volvo

eld

Categories ★

Make and Model > Volvo > All-New VNL - VN (4)

Make and Model > Mack Americas > PR (4) - Pioneer

Vehicle System > Electrical

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