
May 22, 2020
CAL FTL 54-009

**Subject: New Cascadia ABS Fault Codes
520216/31 and 629/11**

Models Affected: New Cascadia

Our records indicate that you are the owner of certain vehicles, and Daimler Trucks North America (DTNA) has decided to share the following documentation with you.

IMPORTANT: New Cascadia vehicles and the former first generation Cascadia vehicles have entirely different structures in the antilock brake system (ABS) architecture. The New Cascadia utilizes an Advanced Modular Braking System Platform (MBSP) ABS controller that interacts with collision mitigation and has enhanced vigilance of the trailer ABS communication and operation.

Multiple counts of ABS code SA 11 SPN 520216 FMI 31 during a single key cycle can have a cumulative affect that result in the activation of ABS code SA 11 SPN 629 FMI 11. Even with the activation of either of these ABS codes, the ABS remains active and functions properly on the vehicle.

The ABS 520216/31 code is designed to count any errors that may be present on the PLC4trucks ABS communication circuit between the tractor/truck and the trailer. This error can be caused by poor power and/or ground connections on the trailer, the towing unit, or the connection between the combination. Fluctuations in power or static noise in the communication can result in logging the ABS 520216/31 code.

Continuous accumulation of the ABS code 520216/31 can result in the activation of ABS code 629/11, which essentially is a reset/reboot request code that requires cycling of the ignition key to clear. If the ABS code 629/11 becomes active, it will have a cascading effect that nulls the adaptive cruise control on a New Cascadia.

To reduce counts of the ABS code 520216/31, cleanliness and circuit integrity is essential on both the tractor/truck and trailer. Additionally, the connecting cord between the vehicle combination must be in good condition with no evidence of moisture or contaminant ingress.

A software update for ABS controllers on Detroit Assurance 5.0 vehicles is currently being tested and will be shared with you. This update will remove the activation of the ABS 629/11 code due to the accumulation of the ABS 520216/31 code that is negatively affecting the adaptive cruise control functionality.

A software update for ABS controllers on Detroit Assurance 4.0 vehicles has an anticipated release date in the third quarter of 2020.