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### Mack Models

**Mack Model** GR-Granite , PI-Pinnacle , AN-Anthem , CHU-Pinnacle, Axle back , CXU-Pinnacle, Axle forward , GU-Granite , TD-Titan

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### Volvo Models

**Volvo Model** VNR , VNL , VHD , VAH

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### Engine family

Engine family Cummins , 11L Engine , 13L Engine , MP7 , MP8

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### Emission Standard

Emission Standard 2018 , OBD2017 , US17 , US13 OBD , US14

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**\*\* SOLUTION \*\***

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**Title** Grounding Bus Bar On Frame Rail Stud; Inspection To Be Performed For Power And Ground, Data Link DTCs - **US13 And Newer Emissions, Common Model Year 2018 And Newer**

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**Cause** The **ground star** is painted before the cables are installed causing insufficient grounding.

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**Solution** The ground star is located on the driver's side frame rail near the battery box and fuel tank. Multiple grounds have been moved to this location. If the ground becomes loose or if it gets the protective coating in between the terminals the ground star needs to be removed, cleaned, and the protective coating needs to be reapplied.





Solution visibility [Dealer distribution](#)

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**Function(s)/component(s) affected**

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Function affected wiring harness

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**Function Group**

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Function Group 371 cables

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**Customer effect**

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Main customer effect diagnostics/methodology , efficiency/abnormal behavior , fault code/display

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**Conditions**

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Vehicle operating mode when driving , when stationary

Frequency of occurrence of problem random

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**Administration**

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