



**** SOLUTION ****

Title Engine Brake - Diagnostic Trouble Code (DTC) P1021-11 Volvo Compression Brake (VCB) Control Circuit Short To Ground - **US17+OBD16 Through US17+OBD19 Emissions, Model Years 2018 To 2020**

Mack Models

Mack Model MRU - TerraPro , TE - TerraPro , AN - Anthem , CHU - Pinnacle, Axle back , CXU - Pinnacle, Axle front , GR - Granite , GU - Granite , PI - Pinnacle

Volvo Models

Volvo Model VNL , VNM , VAH , VHD

Emission Standard

Emission Standard US17+OBD16 , US17+OBD18 , US17+OBD19

Engine family

Engine family 13L Engine , MP8

**** SOLUTION ****

Cause The VCB circuit wires may rub on the air compressor supply pipe bracket, resulting in a short to ground circuit issue.

Solution **Once the circuit issue has been confirmed repair the damaged wires and move the harness away from the bracket so no further rubbing occurs. Refer to the pictures below -**

Charge Air Cooler Pipe Bracket



VCB circuit wire with rub fatigue



Solution visibility **Dealer distribution**

Support Area Americas

Function(s)/component(s) affected

Function affected MID 128 – EMS , wiring harness , engine brake

Function Group

Function Group 2861 Engine Wiring Harness , 2864 Bracket

Customer effect

Main customer effect fault code/display

Fault Codes And Error Codes

OBDII Diagnostic Trouble Codes (P, U, B Format) P1021

Conditions

Vehicle operating mode stationary speed , cruise control , acceleration , with speed limiter , deceleration , when stationary , when activating the retarder , when deactivating the retarder , retarder activated mode , during disengagement , during engagement

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