



Mack Models

Mack Model TE-TerraPro , LR , GR-Granite , PI-Pinnacle , AN-Anthem , CHU , CXU , GU

Volvo Models

Volvo Model VNR , VNX , VNL , VHD , VAH

Engine family

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

Emission Standard

Emission Standard 2018 , OBD2017 , US17 GHG

**** SOLUTION ****

Title Common Rail Fuel System - Engine Wiring Harness Will Not Reach / Is Not Long Enough To Connect To Electronic Pressure Relief Valve (EPRV) Connector, Wiring Harness Pulled Tight At EPRV; Correct Clocking, Symptoms, Repair - [US17+OBD16 And Newer Emissions, Common Model Years 2018 And Newer](#)

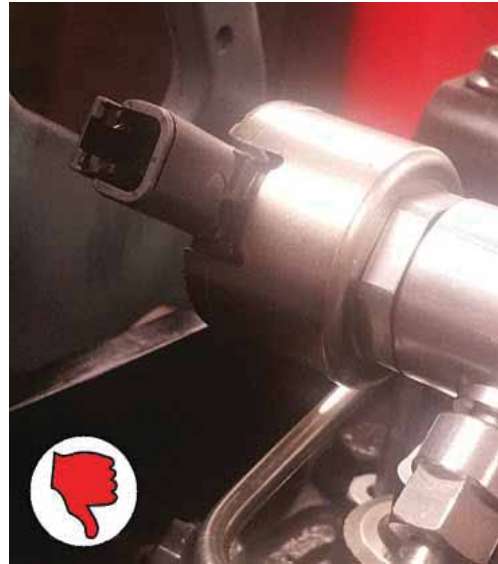
Cause When installing an Electronic Pressure Relief Valve on the fuel rail of a US17 or newer chassis, it may be observed that the engine wiring harness is very tight after the connector is put in place, or that the pigtail with the EPRV connector will not reach the connector on the EPRV itself. Excessive tension on the harness or pins pulled out of connectors may also be seen when the valve cover is removed to inspect fuel system components.

This issue can be caused by an incorrectly oriented—or clocked—EPRV. The housing of the EPRV is able to rotate independently of the fitting that is threaded and torqued to the rail.

S When installing a new Electronic Pressure Relief Valve on the Fuel Rail, or if excessive tension is observed in the
ol wiring harness:

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io **A. Check the EPRV orientation**

n The EPRV should be oriented with the connector directed downward toward the cylinder head and angled slightly toward the right side of the engine.



B. Correct the EPRV clocking if it is improperly oriented

WARNING

Tools should not be used to rotate the housing, as they may damage the housing or connector.

Exercise caution when rotating the EPRV housing. Do not put excessive force on the electrical connector as damage to the EPRV may result.

1. Ensure the EPRV is tightened to correct torque specifications on the fuel rail.
2. Turn the EPRV housing **by hand** to rotate the connector into the correct orientation as shown in the video below:
3. Refer to the pictures below for the correct orientation according to Engine Size:



11 Liter



13 Liter

Internal comments (BO)

<video controls src="/kaidara-fieldservice/File/TECHLINE/K14235517/20180816_130532_1.mp4" width="480" height="270"></video>

Solution visibility

[Dealer distribution](#)

Function(s)/component(s) affected

Function affected

fuel supply , fuel system , wiring harness

Function Group

Function Group

237 injector and delivery pipe

Customer effect

Main customer effect

efficiency/abnormal behavior , visual appearance

Fluid implicated

fuel

Conditions

Vehicle operating mode

when stationary

Frequency of occurrence of problem

random

Other conditions

after a workshop procedure on the vehicle

Administration

Author

RU4469V

Dealer ID

RU4469V

Last modified by

RU4469V

Creation date

25-06-2018 16:06

Date of last update

21-08-2018 20:08

Status

Published