



Mack Models

Mack Model LR , LEU , MRU , CHU , CXU , GU , TD

Engine family

Engine family MP7 , MP8 , MP10

Emission Standard

Emission Standard US16 , US15 , US14 GHG

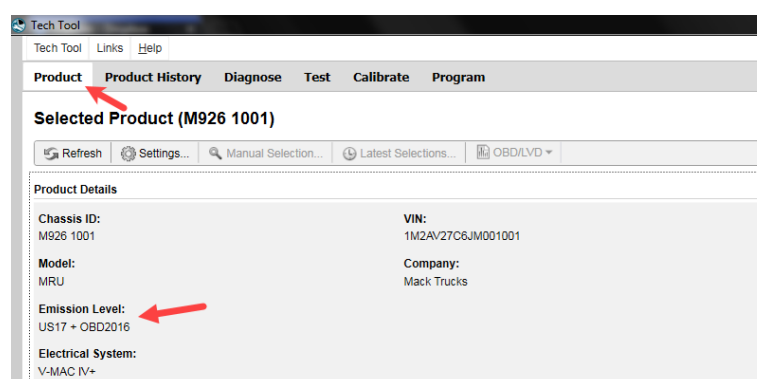
**** SOLUTION ****

Title Mack Chassis - Diagnostic Trouble Code (DTC) P226C Intermittently Lighting The Malfunction Indicator Lamp (MIL) - **US14+OBD13, US14+OBD15 And US14+OBD16 Emissions , Common Model Years 2015 to 2017**

Cause US14+OBD13, US14+OBD15 And US14+OBD16 (pre-common rail) chassis may log DTC P226C during operation. The diagnostic process that this DTC sets for is the monitor of boost pressure change under sudden changes in engine load. The code is likely to set intermittently and it may be difficult or not possible to duplicate during diagnosis. Guided Diagnostics may result in No Fault Found (NFF). This issue is more likely to be observed in chassis with a 13L engine and a lower power rating, and chassis with dual torque engine ratings. This code will not affect performance or driveability. **Turbocharger replacement is not a valid repair for this code.**

Solution **Verify the chassis emissions level**

- Details can be found in the Product Details box on the Product tab in PTT as seen below:



Review the Detailed Status Information for the relevant code on the DTC Readout.

DTC List (2 Items)

Control Unit	DTC	Status
Brake ECU (MID 136)	SID 69: Axel load sensor, FMI 2: Data erratic, intermittent, or incorrect	Active
Engine Control Module (EMS)	P229F64: NOx Sensor Gas Outlet Removed, Signal Plausibility Failure	Active

NOx Sensor Gas Outlet Removed

Detailed status information

Title	Value
Confirmed DTC	True
Pending DTC	False
Test failed	True
Test failed since last clear	True
Test failed this operation cycle	True
Test not completed since last clear	False
Test not completed this operation cycle	False
Warning indicator requested	False

Software improvements have been released for all three emissions levels to address this DTC. Field Service Bulletins with information and instructions have been published for each emissions level. All of the FSBs can be found under the Service tab in [Impact, Function Group 284](#). The articles can also be searched for by Title. Refer to the chart below for the correct bulletin information:

Emissions Level (Model Year)	Field Service Bulletin
US14+OBD13 (2015)	FSB 284-066 Engine Control Module (ECM) and Aftertreatment Control Module (ACM), Reprogramming
US14+OBD15 (2016)	FSB 284-064 Engine Control Module (ECM) and Aftertreatment Control Module (ACM), Reprogramming
US14+OBD16 (2017)	FSB 284-065 Engine Control Module (ECM) and Aftertreatment Control Module (ACM), Reprogramming

If the Bulletin does not appear when searched with either VIN or Chassis information entered, search by model:

1. Clear any chassis information from the Search box.
2. Select or enter the applicable model.

Search

Chassis series Chassis No.

VIN

CXU

Function group

3. Make sure Title is selected in the Search By field. Enter the correct Bulletin title in the text entry field.

Additional search values ▾

Search by:

Titles ▾

FSB 284-066 ▾

4. Press the Search button. The operation will appear in the results window.

Fgrp ▲	Title	Info type	ID/Operation
284	FSB 284-066, Engine Control Module (ECM) and Aftertreatment Control Module (ACM), Reprogramming	Repair	2841-22-09-18

5. Select the correct vehicle configuration from the list that appears as shown below:

FSB 284-066, Engine Control Module (ECM) and Aftertreatment Control Module (ACM), Reprogramming ×

	Description	ID	Date
☐	CXU, ENG-VE11, Assembly Date 2014-01-01 - 2014-12-31		04/03/2018
☐	CXU, ENG-VE13, Assembly Date 2014-01-01 - 2014-12-31		
☐	CXU, ENG-VE16, Assembly Date 2014-01-01 - 2014-12-31		

If software is found to be current, diagnosis should only proceed if the Confirmed DTC status for P226C is True as shown above. If the status is False, other symptoms or fault codes should be diagnosed and the codes cleared when complete.

If any other symptoms or related codes are present, they should be diagnosed prior to beginning steps for P226C.

NA_Sister solutions [K86094641](#)

Campaign code FSB284-065, FSB284-066

Solution visibility [Dealer distribution](#)

Function(s)/component(s) affected

Function affected FSB , Turbocharger , 1 1 0 EMS , Diagnostic tool

Function Group

Function Group 255 turbocharger , 284 control system, fuel supply

Customer effect

Main customer effect calibration/programming/pairing/missing operation , diagnostics/methodology , fault code/display

Fault code(s)

OBD 2013 Diagnostic Trouble Codes P226C

Conditions

Vehicle operating mode when driving , when stationary

Frequency of occurrence of
problem

random

Administration

Author	ut01793
Last modified by	RU4469V
Creation date	23-06-2016 20:06
Date of last update	19-06-2018 19:06
Review date	30-06-2020 00:06
Status	Published