



## Mack Models

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

## Engine family

Engine family MP7 , MP8 , MP10

## Emission Standard

Emission Standard US16 , US15

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

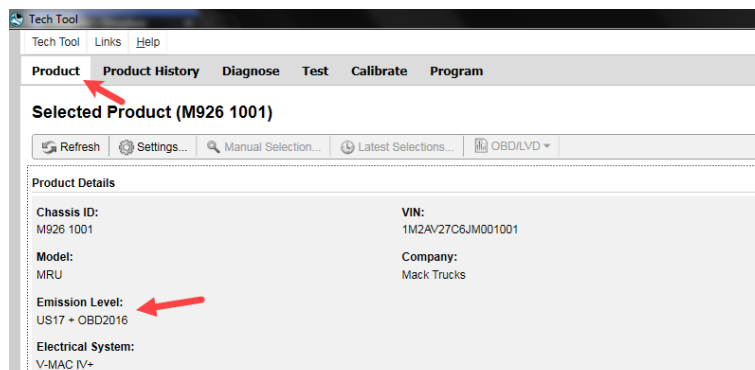
**Title** Mack Chassis - Diagnostic Trouble Code ( DTC ) P2459 Lighting The Malfunction Indicator Lamp ( MIL ); Possible Frequent Regeneration Requests - **US14+OBD15 And US14+OBD16 Emissions, Common Model Years 2016 And 2017**

**Cause** 2016 and 2017 model year vehicles may log DTC P2459 - Diesel Particulate Filter Regeneration Frequency (Bank 1). P2459 may log with or without frequent regeneration requests. The diagnostic process that this DTC sets for is the monitor of how often regenerations are requested by the Engine Control Module ( EMS ), and is intended to determine when the Diesel Particulate Filter ( DPF ) needs to be serviced or indicate a problem causing rapid soot accumulation. Chassis experiencing repeat occurrences of P2459 are most commonly units operating in applications that involve any of the below:

- Frequent stop-and-go operation (food service deliveries, for example)
- Local operation with little to no drive time at stable highway speeds or short overall distance traveled at one time
  - Passive regeneration only occurs when exhaust temperatures are able to reach the correct level and are sustained at that level while the chassis is in motion. These conditions are normally only seen during highway operation.
- Operation requiring an extended amount of idling or operation at low speeds (Paving and construction; mining)

## 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 both emissions levels to address this DTC. Field Service Bulletins with information and instructions have been published for each emissions level. Both 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+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.

The screenshot shows a search interface with the following fields: 'Search' (with a refresh icon), 'Chassis series', 'Chassis No.', 'VIN', 'CXU' (selected in a dropdown menu with a red arrow pointing to it), and 'Function group' (with a dropdown arrow and a search icon).

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 284-065

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

Fgrp ▲	Title ▼	Info type ▼	ID/Operation ▼
284	FSB 284-065, Engine Control Module (ECM) and Aftertreatment Control Module (ACM), Reprogramming	Repair	2841-22-09-17

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

FSB 284-065, Engine Control Module (ECM) and Aftertreatment Control Module (ACM), Reprogramming ✕

Description	ID	Date
<input type="checkbox"/> CXU, ENG-VE11, EOBD-U16, Assembly Date 2016-01-01 - 2016-12-31		06/08/2018
<input type="checkbox"/> CXU, ENG-VE13, EOBD-U16, Assembly Date 2016-01-01 - 2016-12-31		
<input type="checkbox"/> CXU, ENG-VE16, EOBD-U16, Assembly Date 2016-01-01 - 2016-12-31		

**If software is current and the code is present**, the code confirmed status should be verified to be TRUE as shown above before continuing diagnosis.

**Codes and symptoms that may be related to P2459 should be diagnosed prior to P2459 itself.**

NA_Sister solutions	<a href="#">K97651904</a>
Campaign code	FSB284-064, FSB284-065
Solution visibility	Dealer distribution
<b>Function(s)/component(s) affected</b>	
Function affected	FSB , DPF , 1 1 0 EMS , Diagnostic tool
<b>Function Group</b>	
Function Group	254 catalytic converter; exhaust emission control equipment , 258 emissions after-treatment , 284 control system, fuel supply
<b>Customer effect</b>	
Main customer effect	regeneration , diagnostics/methodology , efficiency/abnormal behavior , fault code /display
<b>Fault code(s)</b>	
OBD 2013 Diagnostic Trouble Codes	P2459
<b>Conditions</b>	
Vehicle operating mode	when driving , when stationary
Frequency of occurrence of problem	always

Road conditions city driving

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## Administration

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Author	RU4469V
Dealer ID	RU4469V
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