

**** SOLUTION ****

Title	Diagnostic Trouble Codes (DTC) P2080, P2084, P242B Lighting The Malfunction Indicator Lamp (MIL) - US14+OBD13 And US14+OBD15 Emissions, Model Years 2015 And 2016
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Mack Models

Mack Model	LEU , LR , MRU - TerraPro , CHU - Pinnacle, Axle back , CXU - Pinnacle, Axle front , GU - Granite
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Volvo Models

Volvo Model	VNL , VNM , VNX , VAH , VHD
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Emission Standard

Emission Standard	US14+OBD13 , US14+OBD15 , US14+OBD16
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Engine family

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

Cause	Diagnostic Trouble Codes (DTC) P2080, P2084, and/or P242B may set after key off. It has been found that this may be due to incorrect calculation of the "soak" time of ambient temperature.
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Vehicles may exhibit the MIL and one or any combination of the above fault codes from the Engine Control Module (EMS), as well as one or more of the symptoms below:

- **No Diesel Exhaust Fluid (DEF) Dosing**

- DEF will not be injected with these faults active.

- **Unable To Complete A Parked Regeneration**

- Aftertreatment Hydrocarbon Injector (AHI) injection will not take place with these faults active.

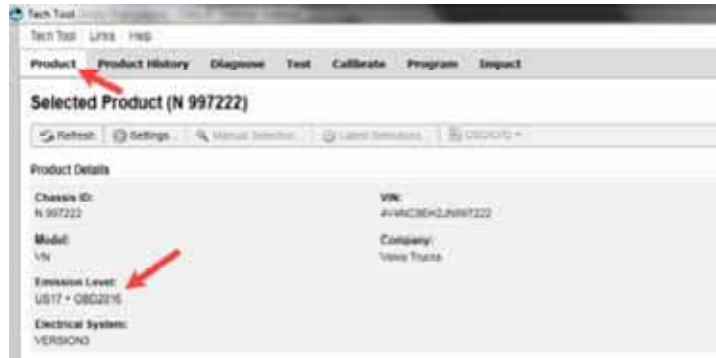
- **Parked Regeneration Runs Too Long, And Does Not Complete**

Solution

<u>NO PARTS SHOULD BE REPLACED for these DTCs unless a sensor failure is confirmed.</u>
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Verify the chassis emissions level

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



For US14+OBD13 (Commonly Model Year 2015) Chassis:

- Software improvements have been released to address this code. If any of these codes are present, the following items should be checked and updated as necessary.

- Engine Control Module (EMS) Main Software (MSW) part number should be 22489791 or later.
- Parameter CWW should be set to 10.

If CWW is not set to 10, the Vehicle Electronic Control Unit (VECU) needs to be programmed after the EMS.

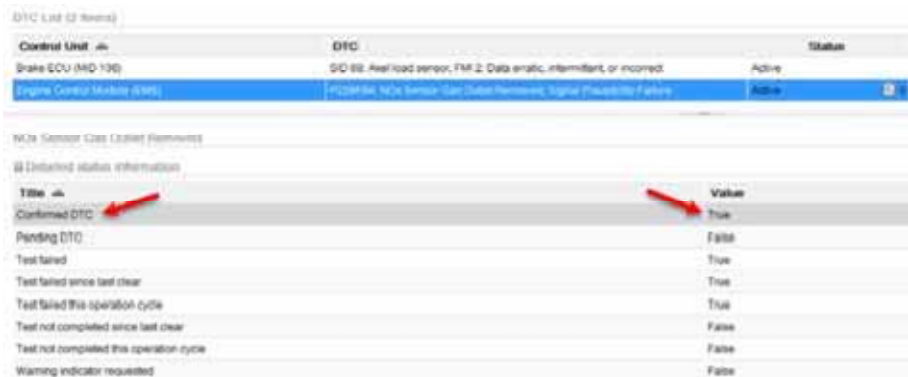
For OBD15 (Commonly Model Year 2016) Chassis:

- Software improvements have been released to address this code. If any of these codes are present, Engine Control Module (EMS) software should be checked and updated as necessary.

- Main Software (MSW) part number should be 22644015 or later.

If Software is current:

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



- If Confirmed DTC is **TRUE**: Proceed with diagnostics

- If Confirmed DTC is **FALSE**: Disregard and focus on other symptoms or DTCs relevant to the complaint.

Internal comments (BO)	No parts should be replaced for these fault codes, unless a definite sensor failure is found.
Solution visibility	Dealer distribution

Function(s)/component(s) affected

Function affected	2 1 0 ACM , EECU , MID 128 – EMS , Diagnostic tool , Engine , exhaust , DEF Dosing
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Function Group

Function Group	254 catalytic converter; exhaust emission control equipment , 258 emissions after-treatment
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Customer effect

Main customer effect	regeneration , temperature , calibration/programming/pairing/missing operation , diagnostics/methodology , efficiency/abnormal behavior , fault code/display
Fluid implicated	Diesel Exhaust Fluid (DEF)
Temperature	does not rise in temperature

Fault Codes And Error Codes

OBDII Diagnostic Trouble Codes (P, U, B Format)	POWERTRAIN , P2080-64 , P2084-64 , P242B-64
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Conditions

Vehicle operating mode	on start-up , when stationary
Frequency of occurrence of problem	always

Administration

Author	RU4469V
Dealer ID	RU4469V
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