

Solution K03573329 Wednesday, April 4, 2018 10:28:39 PM CEST

Solution

Title (customer effect)	Diagnostic Trouble Codes (DTC) P2080, P2084, P242B Lighting The Malfunction Indicator Lamp (MIL) - US14+OBD13 And OBD15 Emissions (Commonly Model Years 2015 And 2016)
Cause	Diagnostic Trouble Codes (DTC) P2080, P2084, P242B can set due to incorrect calculation of " soak " time of ambient temperature after key off.

Solution Overview

Vehicles may exhibit the MIL lamp and one or any combination of the following fault codes and symptoms:

ECM - Engine Control Module

P2080 - Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 1 Sensor 1)

P2084 - Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 1 Sensor 2)

P242B - Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 1 Sensor 3)

Failure Mode Identifier (FMI) 64 - Signal plausibility failure

No Diesel Exhaust Fluid (DEF) Dosing

DEF will not be injected with these faults active.

Unable To Complete A Parked Regeneration

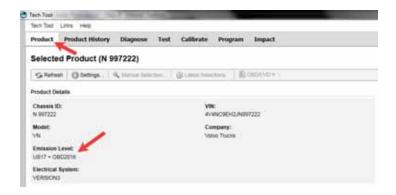
Aftertreatment Hydrocarbon Injector (AHI) injection will not take place with these faults active.

Parked Regeneration Runs Too Long, And Does Not Complete

NO PARTS SHOULD BE REPLACED for these DTCs unless a sensor failure is confirmed.

Repair

- 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 <u>after</u> 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)/componer	nt(s) affected
Function affected	engine , exhaust , DEF Dosing , CV electronic control unit , 110EMS , 210ACM , EECU , Diagnostic tool
Function Group	
Function Group	$254\ catalytic\ converter;$ exhaust emission control equipment , $258\ emissions$ after-treatment
Customer effect	
Main customer effect	regeneration, temperature, calibration/programming/pairing/missing operation, diagn ostics/methodology, efficiency/abnormal behavior, fault code/display
Fluid implicated	AdBlue
Temperature	does not rise in temperature
Lights/Messages on information display	other, Engine equipment fault warning pictogram, message on display,,/
Fault code(s)	
OBD 2013 Diagnostic Trouble Codes	POWERTRAIN, P2080, P2084, P242B
Conditions	
Vehicle operating mode	on start-up, when stationary
Frequency of occurrence of problem	always
Administration	
Author	UT0389H
Last modified by	RU4469V
Creation date	14-03-2017 20:03
Date of last update	02-03-2018 19:03
Review date	15-06-2017 00:06
Status	Published
Average score	5
Number of scores	1
NA_Reviewer	Jeremy Newton
NA_Author_Group	GTT

NA_MACK_Vehicle_Range

NA_MACK_Vehicle_Ran ge	Cabover, LR, LEU, MRU, Conventional, CHU, CXU, GU	
NA_VOLVO_Vehicle_Range		
NA_VOLVO_Vehicle_Ra nge	Conventional, VNL, VNM, VHD, VAH	
Engine family		
Engine family	Volvo, 11L Engine, 13L Engine, Mack, MP7, MP8	
Emission Standard		
Emission Standard	US15, US13 OBD, US14 GHG	