



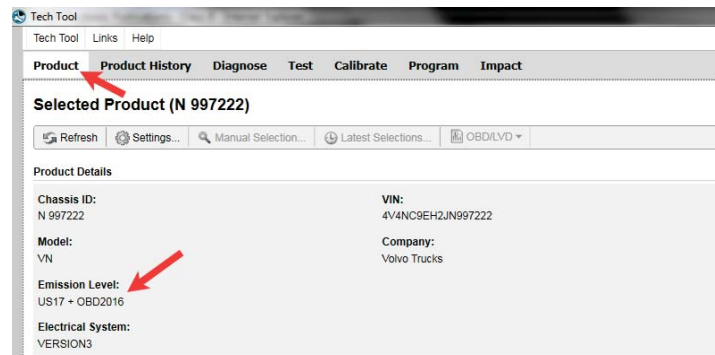
Solution

Title (customer effect) Mack Chassis - Diagnostic Trouble Code (DTC) P0128, Diagnostic And Repair - US14+OBD13 (Commonly Year Model 2015) And Newer

Cause P0128-00 Coolant Thermostat (Coolant Temp Below Thermostat Regulating Temperature) may log in OBD13 and newer chassis; Guided Diagnostics (GD) may result in No Fault Found (NFF).

Solution **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 Chassis With A D11 Engine

- Refer to Tech Tip [TT-002-2015](#).

For US14+OBD13 Chassis With A D13 Engine

- EMS Software should be verified to be current.
- The DTC readout and customer complaint should be reviewed to ensure there are no other codes in the EMS or symptoms reported that may be related to P0128A.
 - Any other codes or symptoms should be diagnosed with normal procedures
- The code confirmation status for P0128 should show as TRUE when code details are reviewed on the DTC Readout in Premium Tech Tool (PTT).
 - If the confirmed status is TRUE, proceed with diagnostic procedures as normal.

- Ensure the engine is warming up properly to verify the thermostat is not stuck open.
- If the unit is functioning properly and there are no other symptoms, clear the code and release the chassis.

- **If the confirmed status is FALSE, no further diagnosis should be performed and no parts should be changed. Clear the code and release the chassis**

For OBD15 (Commonly Year Model 2016) Chassis ONLY:

- Software improvements have been released to address this code. If P0128 is present, software should be checked and updated as necessary.
- Two modules are affected by this update and should be reprogrammed in the following order:
 1. Engine Control Module (EMS)
 2. Aftertreatment Control Module (ACM)
- If there are other codes and symptoms present or the code(s) return following the software update, normal diagnostic procedures should be followed to determine the issue.

For OBD16 Chassis:

- EMS Software should be verified to be current.
- The DTC readout and customer complaint should be reviewed to ensure there are no other codes in the EMS or symptoms reported that may be related to P0128A.
 - Any other codes or symptoms should be diagnosed with normal procedures
- The code confirmation status for P0128 should show as TRUE when code details are reviewed on the DTC Readout in Premium Tech Tool (PTT).
 - If the confirmed status is TRUE, proceed with diagnostic procedures as normal.
 - Ensure the engine is warming up properly to verify the thermostat is not stuck open.
 - If the unit is functioning properly and there are no other symptoms, clear the code and release the chassis.
 - **If the confirmed status is FALSE, no further diagnosis should be performed and no parts should be changed. Clear the code and release the chassis**

Solution visibility	Dealer distribution
Function(s)/component(s) affected	
Function affected	engine , cooling , thermostat , Diagnostic tool
Function Group	
Function Group	262 coolant pump and thermostat , 284 control system, fuel supply
Customer effect	
Main customer effect	calibration/programming/pairing/missing operation , diagnostics/methodology , fault code/display
Fluid implicated	coolant
Lights/Messages on information display	LEDs
Administration	
Author	a175606
Last modified by	RU4469V
Creation date	06-04-2016 16:04
Date of last update	10-01-2018 22:01
Status	Published
NA_MACK_Vehicle_Range	
NA_MACK_Vehicle_Range	Cabover , LR , LEU , MRU , Conventional , CHU , CXU , GU
Engine family	
Engine family	Mack , MP7
Emission Standard	
Emission Standard	US15