



NA_VOLVO_Vehicle_Range

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Conventional , VNL , VNM , VHD , VAH

Engine family

Engine family 11L Engine , 13L Engine , 16L Engine

Emission Standard

Emission Standard US16 , US15 , US13 OBD , US14 GHG

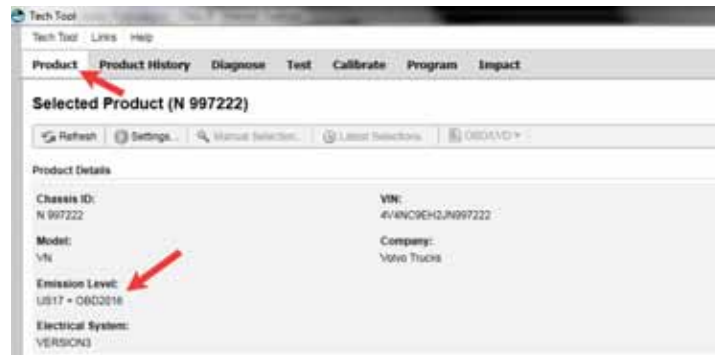
**** SOLUTION ****

Title (customer effect) Volvo Chassis - Diagnostic Trouble Code (DTC) P0128, Diagnostic And Repair - **US14 +OBD13 US14+OBD15 And US14+OBD16, Commonly Model Year 2015 Through 2017**

Cause P0128-00 Coolant Thermostat (Coolant Temp Below Thermostat Regulating Temperature) may log in US14+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:



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

Control Unit	DTC	Status
Brake ECU (MD 136)	SID 69: Axel load sensor, FM 2: Data erratic, intermittent, or incorrect	Active
Engine Control Module (ECM)	P029F6: NOx Sensor Gas Outlet Removect, Signal Plausibility Failure	Active

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

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) as shown above.
 - 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 US14+OBD15 Chassis:

- Software improvements have been released to address this code. Refer to the table below:

ECM	Main Software	Action Required
D11/ D13	Equal or Less Than 22741776	Update to Latest Software
D16	Equal or Less Than 22644015	Update to Latest Software

For US14+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) as shown above.
 - 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.**

Internal comments (BO)	FSB284-064
Solution visibility	Dealer distribution
Function(s)/component(s) affected	
Function affected	FSB , cooling , 1 1 0 EMS , Diagnostic tool
Function Group	
Function Group	26 cooling system , 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	 Driver's information warning pictogram
Fault code(s)	
OBD 2013 Diagnostic Trouble Codes	P0128
Conditions	
Vehicle operating mode	when driving , when stationary
Frequency of occurrence of problem	random

Administration

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