



NA_MACK_Vehicle_Range

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LR , LEU , MRU , CHU , CXU , GU , TD

Engine family

Engine family

MP7 , MP8 , MP10

Emission Standard

Emission Standard

US16 , US15 , US13 OBD , US14 GHG

** SOLUTION **

Title (customer effect)

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

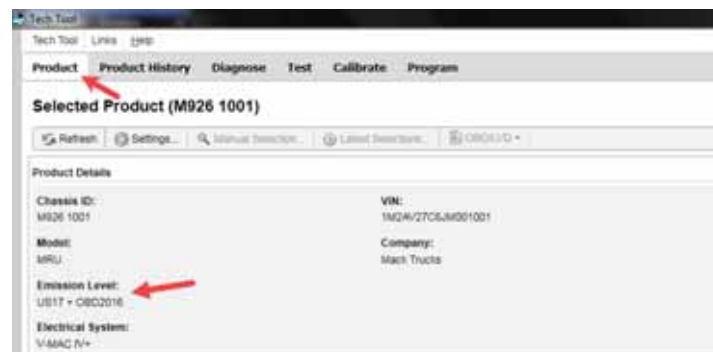
Cause

P0128-00 Coolant Thermostat (Coolant Temp Below Thermostat Regulating Temperature) may log in 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.

DTC List (2 items)

| Control Unit | DTC | Status |
|-----------------------------|--|--------|
| Brake ECU (MD 136) | SID 69: Axel load sensor, FM 2: Data erratic, intermittent, or incorrect | Active |
| Engine Control Module (EMS) | P029F6: 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 |

For US14+OBD13 Chassis With An MP7 Engine

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

For US14+OBD13 Chassis With An MP8 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:

| Action Required | | |
|-----------------|--------------------------------|---------------------------|
| ECM | Main Software | Action Required |
| MP7 / MP8 | Equal or Less Than 22741784 | Update to Latest Software |
| MP10 | Equal or Less Than 22644017 | 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)
