



NA_VOLVO_Vehicle_Range

NA_VOLVO_Vehicle_Range

VNX , VNL , VNM , VHD , VAH

Engine family

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

Emission Standard

Emission Standard US16 , US15

** SOLUTION **

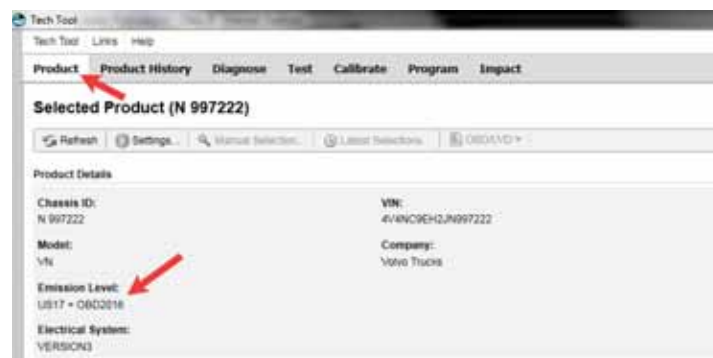
Title (customer effect) Volvo Chassis - Diagnostic Trouble Code (DTC) P05EB, Diagnostic And Repair Information - [US14+OBD15 And US14+OBD16 \(Commonly Model Years 2016 And 2017\)](#)

Cause US14+OBD15 And US14+OBD16 (Commonly Model Years 2016 And 2017) vehicles may present with code P05EB present on a DTC readout.

Solution **DO NOT replace any components for this code unless diagnostic steps in this article reveal that a specific component is the issue.**

- Verify the chassis emissions level and ensure that the vehicle is within the applicable range for this solution.

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



- Check the Engine Control Module (EMS) Software and verify it is current. The Main Software (MSW) Part Number should be equal to or greater than the numbers below:

| | | Main Software Number |
|---------------|------------|----------------------|
| D11, D13, D16 | US14+OBD15 | 23167877 |
| | US14+OBD16 | 23169815 |

- **If the software is not current**, software should be updated and the vehicle released unless there are additional symptoms or P05EB returns after the software is updated.

- 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) | P229F6L: NOx Sensor Gas Outlet Heated, 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 |

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

- **If the Code Status is FALSE and there are no other codes accompanying P05EB**, clear the code and release the vehicle.

- **If the code returns with current software, has high counts, or has made multiple dealer visits for this code and diagnostics always lead to no fault found**, open an eService case. Provide this solution number in the Description.

Internal comments (BO)

NOTE TO DTS: Please contact product specialists for cases near Hagerstown area for quick visit on cases where repeat failure is observed.

Solution visibility

[Dealer distribution](#)

Function(s)/component(s) affected

Function affected

exhaust , 1 1 0 EMS , 2 1 0 ACM , Diagnostic tool

Function Group

Function Group

254 catalytic converter; exhaust emission control equipment , 258 emissions after-treatment , 2841 Electronic Control Unit

Customer effect

Main customer effect

regeneration , diagnostics/methodology , efficiency/abnormal behavior , fault code /display

Lights/Messages on
information display



Driver's information warning pictogram

Fault code(s)

| | |
|--------------------------------------|-------|
| OBD 2013 Diagnostic Trouble Codes | P05EB |
|--------------------------------------|-------|

Conditions

| | |
|------------------------|--------------------------------|
| Vehicle operating mode | when driving , when stationary |
|------------------------|--------------------------------|

| | |
|---------------------------------------|--------|
| Frequency of occurrence of problem | random |
|---------------------------------------|--------|

Administration

| | |
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| Author | UT0031H |
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| Dealer ID | UT0031H |
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| Last modified by | RU4469V |
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| Creation date | 09-04-2018 18:04 |
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| Date of last update | 11-04-2018 21:04 |
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| Review date | 01-10-2018 00:10 |
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| Status | Published |
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| NA_Reviewer | Nataraj Bhat |
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| NA_Author_Group | GTT |
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