

Volvo Chassis - - Diagnostic Trouble Codes (DTC) P1031 With Possible P24DA -

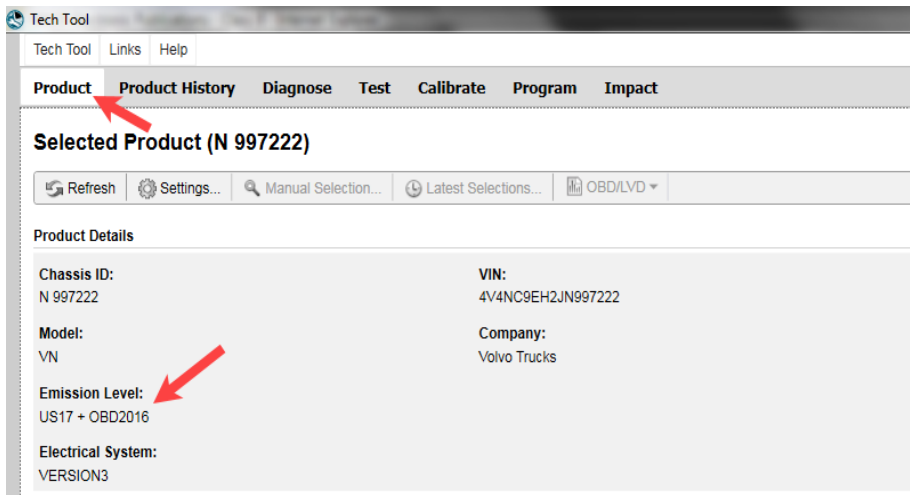


> Internal Content

DO NOT Replace the PM sensor for P1031 and/or P24DA prior to performing the steps below.


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 (MID 136)	SID 69: Axel load sensor, FMI 2: Data erratic, intermittent, or incorrect	Active
Engine Control Module (EMS)	P229F64: 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



Once the chassis is confirmed to be US17+OBD16 or US17+OBD18:

- Software improvements have been released to address this code.
- Refer to [FSB 284-067 Engine Control Module \(EMS\) and Aftertreatment Control Module \(ACM\), Reprogramming](#).

- The bulletin can be found under the Service tab in Impact by searching for either the FSB number, or by reviewing the articles under [Function Group 284](#).

- If the article does not appear when searched with either VIN or Chassis information entered, search by model:

1. Clear any chassis information from the Search box.
2. Select or enter VN as the model.

The screenshot shows a search interface with several input fields. The 'Search by' dropdown menu is set to 'VN', indicated by a red arrow. Other fields include 'Chassis series', 'Chassis No.', 'VIN', and 'Function group'.

3. Make sure Title is selected in the Search By field. Enter "FSB 284-067" in the text entry field.

The screenshot shows the search interface with the 'Search by' dropdown menu set to 'Titles', indicated by a red arrow. The text entry field below it contains 'FSB 284-067', also indicated by a red arrow.

4. Press the Search button. The operation will appear in the results window.

Fgrp ▲	Title ⇅	Info type ⇅	ID/Operation ⇅
284	FSB 284-067, Engine Control Module (ECM) and Aftertreatment Control Module (ACM), Reprogramming	Repair	2841-22-09-19

5. Multiple article choices will appear. Find the Operation for the correct Chassis.

- **Note:** It is possible that more than one choice will have the same title (as shown below). Despite having the same title, the Operations are different and should be reviewed to locate the correct procedure.

FSB 284-067, Engine Control Module (ECM) and Aftertreatment Control Module (ACM), Reprogramming

Description	ID	Date
<input type="checkbox"/> VN, ENG-VE11, EM-USA17, Assembly Date 2017-01-01 - 2018-03-01		06/08/2018
<input type="checkbox"/> VN, ENG-VE13, EM-USA17, Assembly Date 2017-01-01 - 2018-03-01		
<input type="checkbox"/> VN, ENG-VE16, EM-USA17, Assembly Date 2017-01-01 - 2018-03-01		

6. Following software updates, perform Operation [2589-08-03-17 After-treatment Particulate Sensor, Diagnostic Monitor](#) found under the Test tab in Premium Tech Tool (PTT) to verify that there are no further issues.

If software is current according to the bulletin, refer to CBR Solution **CBR-277** for further information.

If other symptoms or related codes are present, normal diagnostics will need to be performed to determine the cause.

 Tags

[k14122525](#)

[p1031](#)

[p1031-00](#)

[p24da-00](#)

[p24da00](#)

[p103100](#)

No links or attachments available

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Help

ation and click Start

y function

l system

t and exhaust system

0-08-03-02 Boost pressure, test

0-08-03-03 Response, test

0-08-03-05 Intake and Exhaust Systems, Checks

0-08-03-02 Engine Brake Function

0-08-03-03 Warm Hold Function

5-08-03-02 Exhaust Aftertreatment Diagnostics

0-08-03-02 Exhaust Aftertreatment System, Service Regeneration

5-08-03-04 Exhaust Aftertreatment System Logged Data

0-08-03-03 NOx Conversion

1-08-03-02 Variable Geometry Turbo Function

4-08-03-01 SCR System, forced heating

0-08-03-05 Aftertreatment selective catalytic reduction (SCR) system

0-08-03-06 SCR System Drain

0-08-03-17 Aftertreatment Particulate Sensor, Diagnostic Monitor

0-08-03-18 Exhaust Aftertreatment System Analysis

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2589-08-03-17 Aftertreatment Particulate Sensor, Diagnostic Monitor

Run the operation in simulation mode

Purpose

Check that the aftertreatment particulate sensor functions properly

Components to be tested are:

Aftertreatment particulate sensor

Note: This operation should only be used in the following circumstances

- Reference from diagnostic/service information or Technical support
- Relevant DTCs: **P2002**

Description

- This test is used to heat the exhaust aftertreatment system in order to activate the particulate sensor
- During the heating phase, the aftertreatment fuel dosing is increased together with engine speed
- Once the target temperature is reached, the sensor begins a self-test
- After several minutes, the sensor is evaluated by the test

Note: Operation may take approximately 30 minute(s) to complete

Start >



P