

Diagnostic Trouble Code (DTC) P20EE - SCR NOx Catalyst Efficiency Below Threshold (Bank 1) - US17+OBD2019 And Newer Emissions



> Internal Content

Related links and attachments

No links or attachments available

Return Visit

If the vehicle has been in for this issue previously an eService case should be started for further assistance **AFTER** verifying that the same problem exists.

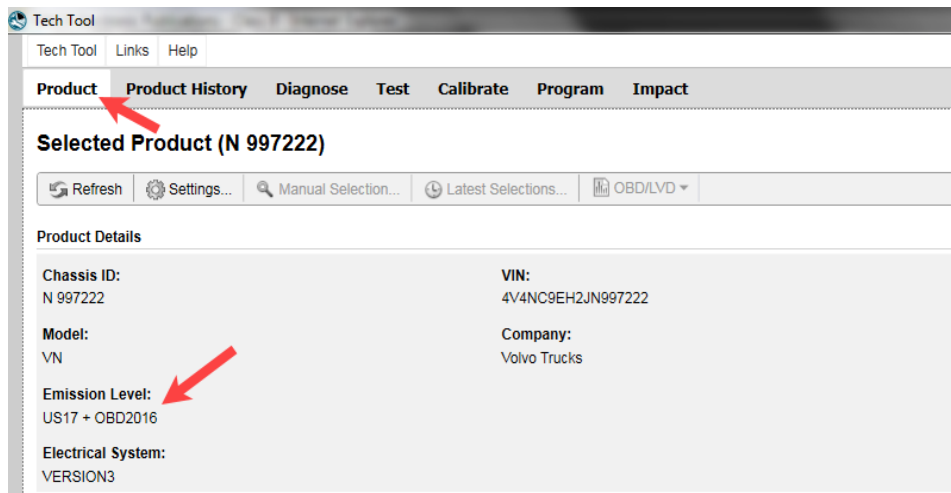
The eService case MUST INCLUDE:

- The CBR Diagnostic Session number or this Solution number.
- A thorough description of the problem.
- The vehicles previous history and what was done to resolve the issue on previous visits (This solution MUST have been performed previously if a case is being opened!).
- A complete DTC readout from the time of the vehicle's arrival.

First Visit

1. 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:



2. Remove the DEF dosing valve and inspect for crystal buildup.

An example of expected crystal buildup can be seen below:



2.1. If crystal buildup is similar to that shown in the picture above: Continue to Step 3.

2.2 If there are no crystals present, or the crystal accumulation is light with small crystals: Proceed to and complete solution [CBR-537](#).

3. Remove the DPF (Tear Drop) cover and clean the crystal accumulation out of the pipes.

3.1. With a damp cloth, wipe off the DEF dosing valve and mixing vanes.

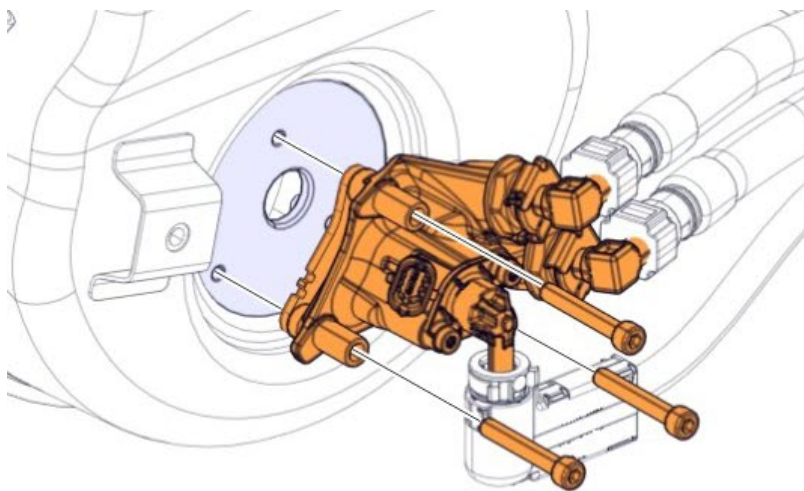
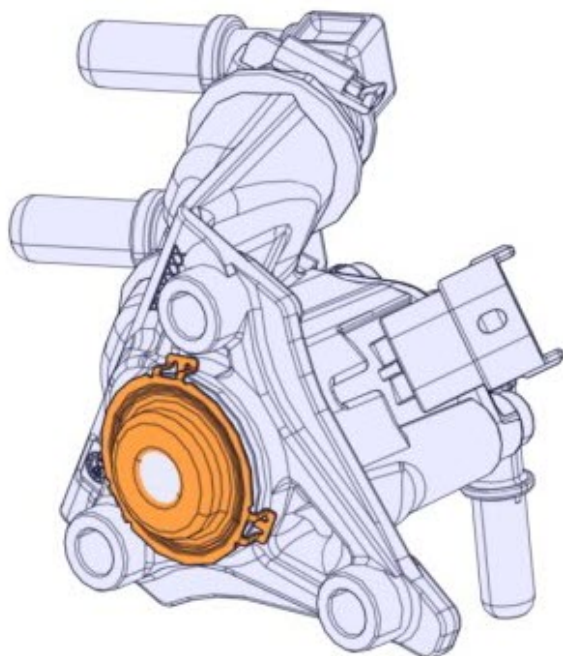
4. Once the inside of the muffler is clean, Install new gaskets and V-clamps for the tear drop cover.

5. Re-install the cover.

6. Remove and discard the insulator (gasket) from the dosing valve. The part is highlighted in the picture below.



7. Re-install the DEF dosing valve WITHOUT a new insulator. Make sure to use a new sealing plate and new mounting screws (one time use parts).



8. Clear fault codes.

9. Perform a Sulfur Regeneration. This will complete the cleaning of the SCR.

10. Release the vehicle.

This is a temporary containment for this issue. This solution will be updated when more information is available.

P042200 P103C00 P20EE00 P225C00

K58203603 US17+OBD19 P0422-00

P103C-00 P20EE-00 P225C-00



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