



Diagnostic Trouble Code (DTC) P20BA, (Related DTC P20E8) : Fault Code Reductant (Diesel Exhaust Fluid - DEF) Heater Control Performance Diagnosis



> Internal Content

Although the DTC suggests the DEF tank heating system is at fault, troubleshoot this fault code as not able to build DEF pressure failure DTC (P20E8). The most common reasons for not being able to build pressure are:

1. Switching the DEF supply line with the DEF return to tank or DEF dosing line (on new products or products where a component change or inspection was done recently).
2. Blockage of the DEF supply to the pump (DEF tank vent, DEF tank filter, DEF pump inlet screen) mostly caused by debris or urea crystals. Replacing the DEF in the tank with known good quality DEF, replacing filters and screens should help fix this issue. If the DEF tank vent has its own filter (mainly for dirty environment), make sure to check the filter and lines for any blockage.
3. Large leak in the DEF dosing system (should show up as a puddle of DEF) or no DEF in the tank.
4. If the DEF tank temperature stays cold (<10C) even after the engine is warm (>80C), then potential is there that the DEF tank heating valve, DEF tank heating lines as a possible cause for this issue. Look for the DEF tank and heated lines to be possibly frozen as a potential cause. This could be caused by the coolant heating valve stuck closed or blocked.

If nothing is found and the truck will not build DEF pressure inside the workshop then use DTC P20E8 fault code specific diagnosis to identify the root cause for not building DEF pressure.

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