

FAILURE SYMPTOMS

Chart demonstrating the failure symptoms found in the OEM Def Tank Repair Kit.



OEM DEF Tank Repair Kit

Level Sensor

The following codes indicate that there is a defect in the level sensor inside the tank:

4BAC, 4D10, P203A,
P203D, P209F,
203C11, 203D12

“Reducing Agent Active Tank Fill Level Sensor Signal”

Temperature Sensor

The temperature sensor is an integral part of the level sensor and is located inside the DEF tank.

Common codes:

4D32, 46F4, 46F9,
P205B, P205C.

Heating Element “B”

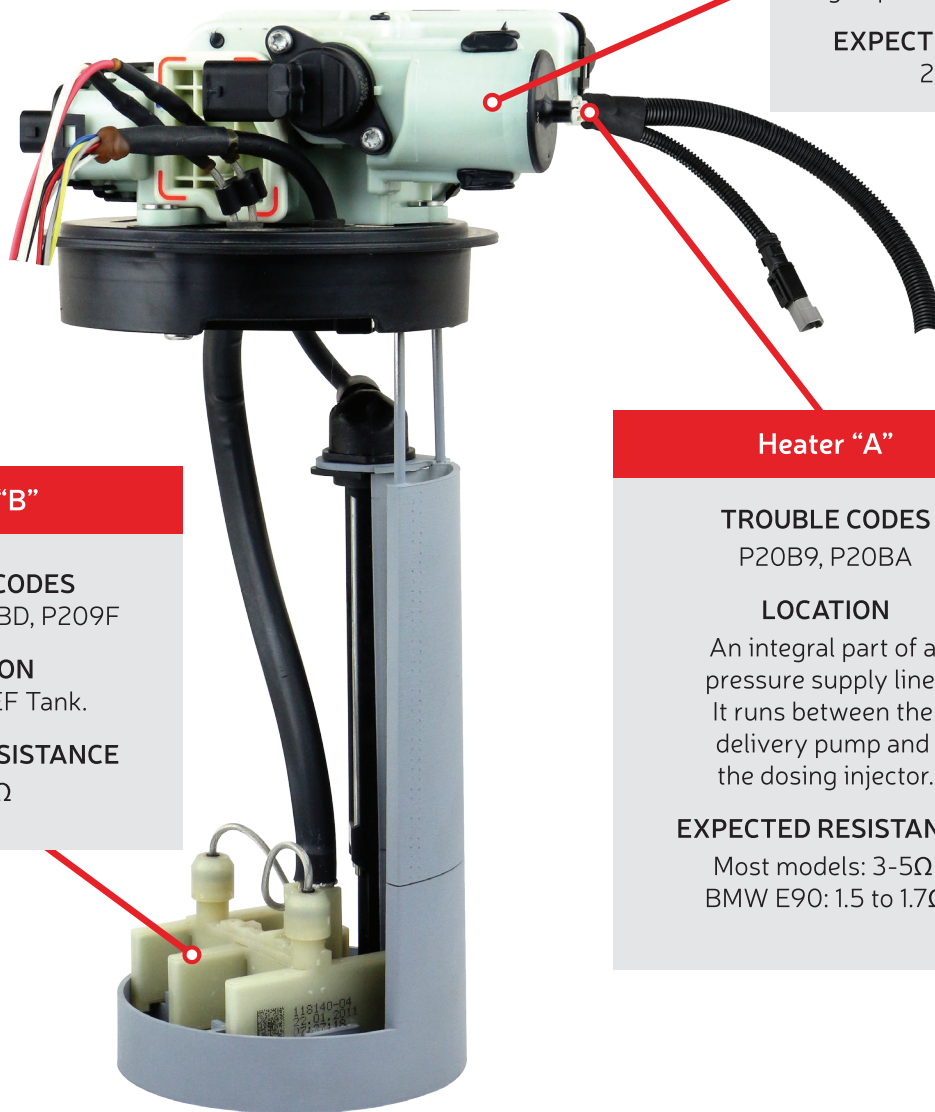
The following codes indicate that the heating element inside the tank is defective:

P20BE, P20BE1B,
P20BD, P209F

“Reductant Tank Heater “B” Control Circuit Performance”

HEATING ELEMENTS EXPLAINED

There are three separate heating elements in the DEF/SCR system, they are known as heater "A", "B" and "C". Their job is to prevent urea from freezing in various parts of the system. When troubleshooting the system, it is important to identify the correct heating element. Each heater has its own set of diagnostic trouble codes and can be tested with an ohmmeter.



Heater "C"

TROUBLE CODES
P20C1, P20C2, P20C3, P20C4

LOCATION
Integral part of the DEF tank pump

EXPECTED RESISTANCE
2.9 to 5.5 Ω

Heater "B"

TROUBLE CODES
1P20BE1B, P20BD, P209F

LOCATION
Inside the DEF Tank.

EXPECTED RESISTANCE
2-4.5 Ω

Heater "A"

TROUBLE CODES
P20B9, P20BA

LOCATION
An integral part of a pressure supply line. It runs between the delivery pump and the dosing injector.

EXPECTED RESISTANCE
Most models: 3-5 Ω
BMW E90: 1.5 to 1.7 Ω

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