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Title: 626-11 or 626-18 Code With No Startability Concerns

Applies To: 2010 MaxxForce 11 & 13, & N13

**DESCRIPTION**

The SPN 626 FMI 11 or 18 has the potential to set without failure of the Cold Start/Inlet Air Heater Fuel Igniter, Relay, or any startability issues. The monitor in the current calibration is comparing intake manifold temperatures in such a way that the fault is set without any system issues.

- 626-11: Cold Start Assist Fault: Lack of heat in the Intake Manifold
- 626-18: Inlet Air Heater Fault: Lack of heat in the Intake Manifold

**REPAIR PROCEDURE**

The monitor error will be addressed in the next calibration release. If the fault code exists in the ECM, clear the codes, cycle the key, then run the Inlet Air Heater Test. Follow the instructions in Servicemaxx to watch the temperature rise (Figure 1). If the temperature rises as expected the system is operating correctly. If temperature does not rise see [IK1200571](#).

**NOTE: If CAP engages while the engine is idling the Intake Manifold Temperature will be lower due to the rush of ambient temperature air.**

Figure 1: Inlet Air Heater Test

The screenshot shows the 'Inlet Air Heater Test' procedure in the ServiceMaxx Pro software. The test is locked. The procedure steps are:

- Start Inlet Air Heater Test. The ECM will energize the Igniter for 40 seconds. (You can use current probe to verify the Igniter is working).
- Visually monitor the "Wait to Start Lamp". The lamp will illuminate for about 40 seconds before it begins to flash.
- Start Engine when the "Wait to Start Lamp" starts to flash.
- A few seconds after the engine has started, the IAH Fuel Solenoid is commanded on, allowing fuel to feed the igniter. (You can use a fuel pressure gauge between igniter and supply line to verify the igniter is receiving fuel)

Note: On a cold engine when the system is working correctly (Intake Manifold Temperature below 100 F) IMT should raise at least 10 degrees F after the engine has started.

The graph shows IMT (F) on the x-axis (ranging from -27.5 to 0.0) and percent on the y-axis (ranging from 0.00 to 1.00). The legend indicates IAHFS (solid line), IAHF(percent) (dashed line), and IMT(F) (dotted line).

T   Name	Value	Units
Inlet Air Heater Fuel Igniter		. percent
Inlet Air Heater Fuel Solenoid		.
Intake Manifold Temperature		. F

  

T   Name	Value	Units
Inlet Air Heater Relay		..
Inlet Air Heater Relay Diag		..
Engine Coolant Temperature 1		.. F
Engine Speed		.. RPM
Fuel Delivery Pressure		.. psi
Lamp: Wait to Start		..
Water In Fuel		..
Ambient Air Temperature		.. F
V: Switch Battery		.. V

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