Injector Voltage Waveform Test

Meets NATEF Task: (A8-D-7) Inspect and test fuel injectors. (P-1)

Name _____ **Date** _____ **Time on Task** _____

Make/Model/Year _____ **VIN** _____ **Evaluation: 4 3 2 1**

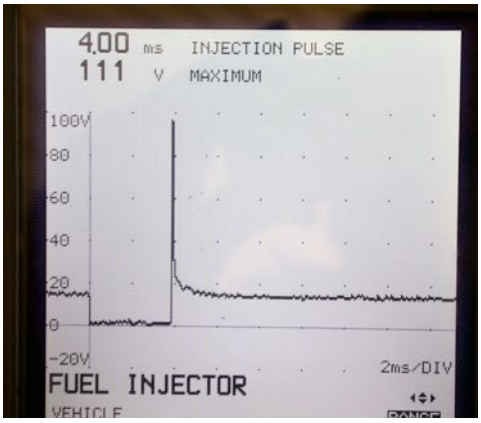
_____ **1.** Check service information for the type of fuel injector being used.

☐ Saturated

☐ Peak and hold

_____ **2.** Connect a digital storage oscilloscope (DSO) or graphing multimeter (GMM) to the pulsed side of the injector. (Check service information for the color of wire used for the pulse.)

_____ **3.** Start the engine and observe the voltage waveform.



_____ **4.** Does the voltage spike (kick) exceed 30 volts? ☐ Yes ☐ No

_____ **5.** What is the injector pulse-width? _____ (normally between 1.5 and 3.5 mS at idle on a warm engine)

_____ **6.** Based on the test performed, what is the necessary action? _____

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