

Injector Voltage Waveform Test

Meets ASE Task: (A8-D-7) P-2 Inspect and test fuel injectors.

Name _____ Date _____ Time on Task _____

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

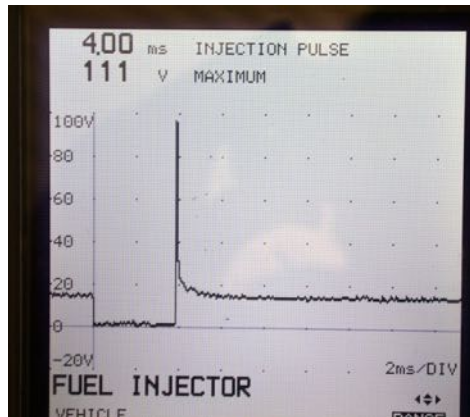
_____ 1. Check service information for the type of fuel injector being used.

_____ 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 needed action? _____

