

Fuel Pump Current Ramping

Meets NATEF Task: (A8-D-3) Inspect and test fuel pumps and pump control systems for pressure, regulation, and volume; perform necessary action. (P-1)

Name _____ Date _____ Time on Task _____

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

_____ 1. Check service information for the specified fuel pump operating speed (normally from 3500 to 7500 RPM).

_____ 2. Tools and equipment needed to determine the rotational speed of the fuel pump include:

_____ Digital storage oscilloscope

_____ Current clamp

_____ Fused jumper lead



_____ 3. Perform a current ramping procedure and determine the following:

_____ Number of commentator segments = _____ (usually 8, 10, or 12)

_____ Milliseconds needed for one rotation of the pump = _____

_____ Fuel pump speed = $60,000 \div \text{milliseconds} =$ _____

_____ 4. Based on the test performed, what is the necessary action? _____
