

# Fuel Pump Current Ramping

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

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? \_\_\_\_\_

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