

# Position Sensor Waveform Testing

Meets NATEF Task: (A8-B-6) Access and use service information to perform step-by-step diagnosis. (P-1)

Name \_\_\_\_\_ Date \_\_\_\_\_ Time on Task \_\_\_\_\_

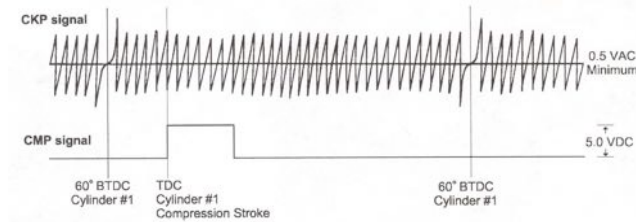
Make/Model/Year \_\_\_\_\_ VIN \_\_\_\_\_ Evaluation: 4 3 2 1

- \_\_\_\_\_ 1. Check service information regarding the location and type of position sensors used on the vehicle being tested.

**Crankshaft Position (CKP)      Camshaft Position (CMP)**

Location (describe): \_\_\_\_\_

Type of sensor (Hall-Effect, magnetic, etc.): \_\_\_\_\_



- \_\_\_\_\_ 2. Check service information for the wire colors used and their purpose.

**Crankshaft Position (CKP)      Camshaft Position (CMP)**

Wire 1 (color and purpose): \_\_\_\_\_

Wire 2 (color and purpose): \_\_\_\_\_

Wire 3 (color and purpose): \_\_\_\_\_

- \_\_\_\_\_ 3. Check service information for the specified voltage output and/or waveform for the CKP and CMP sensors.

CKP \_\_\_\_\_ CMP \_\_\_\_\_

- \_\_\_\_\_ 4. Following the test equipment manufacturer's instructions, show the instructor the waveforms. CKP – Instructor OK \_\_\_\_\_ CMP – Instructor OK \_\_\_\_\_

- \_\_\_\_\_ 5. Based on the comparison between the captured waveform and the specified waveform, what action is needed?  
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