

# Position Sensor Waveform Testing

**Meets NATEF Task:** (A8-C-2) P-1 Inspect and test crankshaft and camshaft position sensor(s); perform necessary action.

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

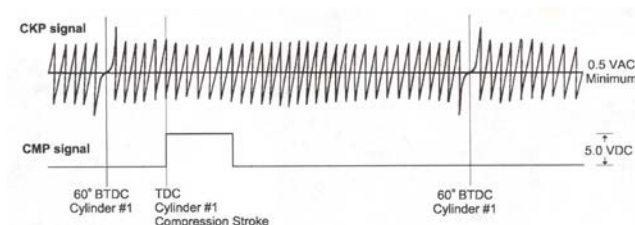
Make/Model/Year \_\_\_\_\_ VIN \_\_\_\_\_ Evaluation: 4 3 2 1

- \_\_\_\_\_ 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?
- \_\_\_\_\_