

Position Sensor Waveform Testing

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

Name _____ Date _____ Time on Task _____

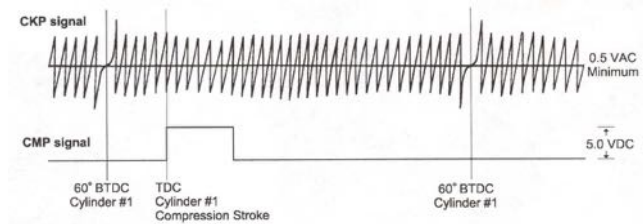
Make/Model/Year _____ VIN _____ Evaluation: 4 3 2 1

_____ 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?