

# Primary Ignition Inspection and Testing

**Meets NATEF Task:** (A8-C-3) Inspect and test crankshaft and camshaft position sensor(s); perform necessary action. (P-3)

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

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

\_\_\_\_\_ 1. Check service information and determine what type of ignition system is used on this vehicle?

- \_\_\_\_\_ Distributor ignition (DI)
- \_\_\_\_\_ Waste-spark (EI)
- \_\_\_\_\_ Coil-on-plug
- \_\_\_\_\_ Other (describe) \_\_\_\_\_



\_\_\_\_\_ 2. Check service information and determine what type of primary circuit switching device is used on this system.

- \_\_\_\_\_ Pickup coil (pulse generator) Used on most distributor-type ignition systems.
- \_\_\_\_\_ Hall-effect sensor
- \_\_\_\_\_ Magnetic sensor
- \_\_\_\_\_ Optical sensor
- \_\_\_\_\_ Other (describe) \_\_\_\_\_



\_\_\_\_\_ 3. Check service information and determine what color wires are used on the switching device?  
\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

\_\_\_\_\_ 4. The primary ignition switching device signal goes to the:

- \_\_\_\_\_ Ignition control module (ICM)
- \_\_\_\_\_ Computer (PCM)
- \_\_\_\_\_ Other (describe) \_\_\_\_\_

\_\_\_\_\_ 5. Using the service information, what are the steps to diagnosis a no-spark condition?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_ 6. Could a fault in the primary ignition sensor cause a no-spark condition?

Yes \_\_\_\_\_ No \_\_\_\_\_

\_\_\_\_\_ 7. Based on inspection and tests, what is the necessary action? \_\_\_\_\_