

Coil-On-Plug Inspection and Testing

Meets NATEF Task: (A8-C-1) Diagnose ignition system-related problems; determine necessary action. (P-2)

Name _____ Date _____ Time on Task _____

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

_____ 1. Check service information for the recommended testing procedure and specifications for testing the coil-on-plug ignition system.

_____ 2. Start the engine and observe the spark tester.

NOTE: The spark may stop sparking due to the PCM shutting off the spark to the cylinder that is misfiring. This is normal and correct operation of the engine will be restored by simply reconnecting the spark plug wire to the spark plug and operating the engine for several minutes until the PCM restores the spark.

_____ 3. Reconnect the spark plug wire and start the engine. Operate the engine until it is running smoothly.

_____ 4. Turn the ignition off and consult the factory service manual. Locate the wire on the coil that is pulsed on and off by the computer.

wire color _____

circuit number _____



_____ 5. Gently back probe the signal wire and attach the red meter lead.

_____ 6. Attach the black meter lead to a clean ground.

_____ 7. Select frequency (Hz).

_____ 8. Start (or crank) the engine and observe the frequency = _____ Hz.
 (should be between 3 and 20 Hz at idle speed)

_____ 9. Based on the test results, what is the necessary service? _____
