

Waste Spark Ignition 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 and determine the type of waste spark-type ignition with which you are working:

- _____ GM (Magnavox - 3 coils in one unit)
- _____ GM (AC Delco - individual coils)
- _____ Ford
- _____ DaimlerChrysler
- _____ Other (specify) _____



_____ 2. What type of triggering system is used to signal the ignition module?

_____ 3. Test the coils for output by unplugging a spark plug wire and attaching a spark tester (ST-125). Start the engine. The spark tester should spark continuously.

_____ 4. Repeat #3 for all cylinders. **OK** _____ **NOT OK** _____

_____ 5. Install 2" lengths of vacuum hose between the coil terminals and spark plug wire. Using a test light, ground out one cylinder at a time.

a. Did all cylinders drop in RPM when grounded? _____

If not, which cylinder did not drop in RPM? _____

b. If a cylinder RPM does not drop when the plug wire is grounded, what items could be defective? _____

c. By grounding out one spark plug wire, does it ground out one or two cylinders? _____

_____ 6. Based on the test results, what is the necessary action? _____