Power Balance – Manual Method

Meets NATEF Task: (A8-A-3) Perform cylinder balance test; 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 method and procedures to follow for performing a power balance test without the use of a scan tool.

_____ **2.** One method uses a 2" long vacuum hose between the distributor cap (or coils) and the spark plug wires.

_____ **3.** Connect the tachometer to the engine and record idle RPM = _____.

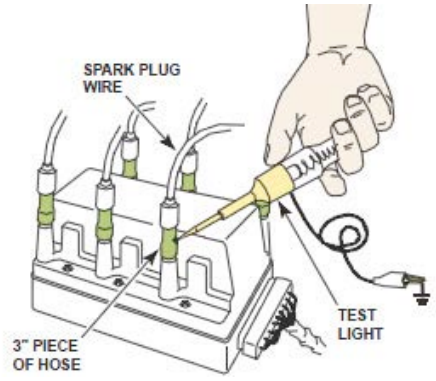
_____ **4.** Using a test light, ground out one cylinder at a time by touching the tip of the grounded test light to the section of rubber hose, and record the RPM drop:

#1 _____ #5 _____

#2 _____ #6 _____

#3 _____ #7 _____

#4 _____ #8 _____



NOTE: 50 RPM is the maximum variation between cylinders. The cylinder that drops the most RPM is the *strongest* cylinder. The cylinder that drops RPM the least is the *weakest* cylinder.

_____ **5.** Results:

RPM difference between the strongest and weakest cylinder _____.

Which cylinder is the strongest? _____.

Which cylinder is the weakest? _____.

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

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