Evaluation (Enter number from 4, 3, 2, 1) :\_\_\_\_\_\_\_\_\_

**Meets ASE Task:** (A8-A-9) P-1 Perform cylinder power balance tests; determine needed action.

**Cylinder Power Balance Tests**

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date:\_\_\_\_\_\_\_\_\_\_\_\_\_

Time on Task:\_\_\_\_\_\_\_\_\_\_\_\_\_

Make/Model/Year:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

VIN:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**[ ]  1.** An automotive diagnostic scope or digital storage oscilloscope with relative

 compression can be used to determine cylinder balance. Check all that apply.

 **[ ]** Automotive diagnostic scope

 **[ ]** Digital storage oscilloscope with relative compression capability

 **[ ]** Other (describe) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**[ ]  2.** Follow the equipment manufacturers’ instructions and connect the tester to the engine.

 Instructions to connect to the engine include: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

**[ ]  3.** Start the engine and allow it to reach normal operating temperature.

**[ ]  4.** Follow the instructions of the test equipment manufacturer and perform a cylinder

power balance test. Record the results.

 Cylinder #1 = \_\_\_\_\_\_\_\_\_\_\_\_\_ Cylinder #5 = \_\_\_\_\_\_\_\_\_\_\_\_\_

 Cylinder #2 = \_\_\_\_\_\_\_\_\_\_\_\_\_ Cylinder #6 = \_\_\_\_\_\_\_\_\_\_\_\_\_

 Cylinder #3 = \_\_\_\_\_\_\_\_\_\_\_\_\_ Cylinder #7 = \_\_\_\_\_\_\_\_\_\_\_\_\_

 Cylinder #4 = \_\_\_\_\_\_\_\_\_\_\_\_\_ Cylinder #8 = \_\_\_\_\_\_\_\_\_\_\_\_\_

**[ ]  5.** If performing an engine speed (RPM) drop test, all cylinders should be within 50

RPM.

 **[ ]  OK**

 **[ ]  NOT OK** (describe results) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 **[ ]  NA**

**[ ]  6.** If relative compression is being performed, all cylinders should be within 10%.

 **[ ]  OK**

 **[ ]  NOT OK** (describe results) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 **[ ]  NA**