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**