

# Cylinder Power Balance Tests

**Meets ASE Task:** (A8-A-6) P-1 Perform cylinder power balance tests; determine needed action.

Name \_\_\_\_\_ Date \_\_\_\_\_ Time on Task \_\_\_\_\_

Make/Model/Year \_\_\_\_\_ VIN \_\_\_\_\_ Evaluation: 4 3 2 1

\_\_\_\_\_ 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**