



# Cylinder Power Balance Tests

Meets NATEF Task: (A1-A-9, A8-A-9) Perform cylinder power balance tests; determine necessary action. (P-2)

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**