

Cylinder Power Balance Tests

Meets NATEF Task: (A8-A-6) Perform cylinder power balance tests; determine necessary action (P-1)

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**