

# Compression Testing

**Meets ASE Task:** (A8-A-7) P-1 Perform cylinder compression tests; determine needed action.

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

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

- \_\_\_\_\_ 1. Remove all spark plugs (be certain to label the spark plug wires) and disable the ignition system to avoid possible ignition coil damage.
- \_\_\_\_\_ 2. Block open the throttle and choke (if equipped).
- \_\_\_\_\_ 3. Crank the engine at least 4 “puffs” (compression strokes) while observing the gauge.

**NOTE:** For accurate test results, the engine should be at normal operating temperature.

**RESULTS: 1st puff / final reading**

1. \_\_\_\_\_ / \_\_\_\_\_  
 2. \_\_\_\_\_ / \_\_\_\_\_  
 3. \_\_\_\_\_ / \_\_\_\_\_  
 4. \_\_\_\_\_ / \_\_\_\_\_

**1st puff / final reading**

5. \_\_\_\_\_ / \_\_\_\_\_  
 6. \_\_\_\_\_ / \_\_\_\_\_  
 7. \_\_\_\_\_ / \_\_\_\_\_  
 8. \_\_\_\_\_ / \_\_\_\_\_

**NOTE:** The 1st "puff" should be more than one-half of the pressure of the final puff. If the 1st puff is low, worn piston rings are likely – repeat the test.

- \_\_\_\_\_ 4. Reinstall all spark plugs except one. Perform a running compression test at idle and at 2000 RPM for each cylinder:

**Idle**

1. \_\_\_\_\_  
 2. \_\_\_\_\_  
 3. \_\_\_\_\_  
 4. \_\_\_\_\_  
 5. \_\_\_\_\_  
 6. \_\_\_\_\_  
 7. \_\_\_\_\_  
 8. \_\_\_\_\_

**2000 RPM**

1. \_\_\_\_\_  
 2. \_\_\_\_\_  
 3. \_\_\_\_\_  
 4. \_\_\_\_\_  
 5. \_\_\_\_\_  
 6. \_\_\_\_\_  
 7. \_\_\_\_\_  
 8. \_\_\_\_\_

**OK** \_\_\_\_\_ **NOT OK** \_\_\_\_\_

- \_\_\_\_\_ 5. Based on the test results, what is the needed action? \_\_\_\_\_