

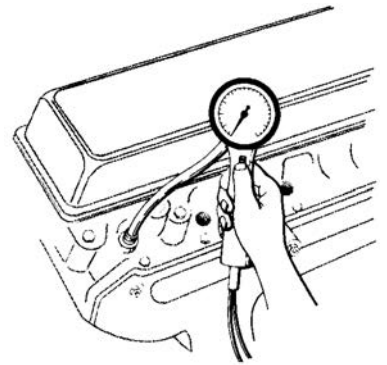
# Compression Testing

**Meets NATEF Task:** (A8-A-4) Perform cylinder cranking and running compression tests; determine necessary action. (P-1)

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).
- \_\_\_\_\_ 2. Block open the throttle and choke (if equipped).
- \_\_\_\_\_ 3. Perform compression testing during cranking (4 "puffs").



**NOTE:** For accurate test results, the engine should be at normal operating temperature. The 1st puff should be at least 50% of the final puff. (A low 1st puff reading indicates possible weak piston rings.)

RESULTS:		1st puff/final reading	1st puff/final reading
1.	_____ / _____	5.	_____ / _____
2.	_____ / _____	6.	_____ / _____
3.	_____ / _____	7.	_____ / _____
4.	_____ / _____	8.	_____ / _____

- \_\_\_\_\_ 4. Perform a **wet compression test** on any cylinder that reads lower-than-normal on the cranking compression test. Add about 1 ounce of engine oil to the cylinder and repeat the test.

	Cranking Compression Reading	Wet Compression Reading
Cylinder #1	_____	_____
Cylinder #2	_____	_____
Cylinder #3	_____	_____
Cylinder #4	_____	_____
Cylinder #5	_____	_____
Cylinder #6	_____	_____
Cylinder #7	_____	_____
Cylinder #8	_____	_____

If the wet compression reading is a lot higher than the cranking compression reading, the piston rings are worn.

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