

# Valve Spring Specifications and Measurements

Meets ASE Task: A1 – B-7 – P-3

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

Make/Model/Year: \_\_\_\_\_ VIN: \_\_\_\_\_

Evaluation (Enter number from 4, 3, 2, 1) : \_\_\_\_\_

- 1. Are the intake and exhaust valve springs interchangeable? (Some have different spring tension, and some springs are wound in the opposite direction). **Yes** \_\_\_\_\_ **No** \_\_\_\_\_
  
- 2. Check squareness (should be within 1/16"): \_\_\_\_\_ **OK** \_\_\_\_\_ **NOT OK** \_\_\_\_\_
- 3. The free length (height) specification: \_\_\_\_\_
  
- 4. The actual free length (height) (one intake and one exhaust spring):  
\_\_\_\_\_ intake spring \_\_\_\_\_ exhaust spring **OK** \_\_\_\_\_ **NOT OK** \_\_\_\_\_
- 5. Valve closed load specification: \_\_\_\_\_ at \_\_\_\_\_ in. height.
  
- 6. Measured valve spring closed load:  
\_\_\_\_\_ intake spring \_\_\_\_\_ exhaust spring **OK** \_\_\_\_\_ **NOT OK** \_\_\_\_\_
- 7. Valve open load specification: \_\_\_\_\_ at \_\_\_\_\_ in. height.
  
- 8. Measured valve spring closed load:  
\_\_\_\_\_ intake valve \_\_\_\_\_ exhaust valve **OK** \_\_\_\_\_ **NOT OK** \_\_\_\_\_
- 9. Installed height specification: \_\_\_\_\_
- 10. Measured installed height: \_\_\_\_\_ intake valve \_\_\_\_\_ exhaust valve  
**OK** \_\_\_\_\_ **NOT OK** \_\_\_\_\_
- 11. Valve stem height specification: \_\_\_\_\_ in.
- 12. Measured valve stem height: \_\_\_\_\_ intake valve \_\_\_\_\_ exhaust valve  
**OK** \_\_\_\_\_ **NOT OK** \_\_\_\_\_