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

**Meets ASE Task:** (A1-B-7) P-3 Inspect valve spring for squareness and free height comparison; determine needed action.

**Valve Spring Squareness and Free Height**

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date:\_\_\_\_\_\_\_\_\_\_\_\_\_

Time on Task:\_\_\_\_\_\_\_\_\_\_\_\_\_

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

VIN:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**[ ]  1.** Check service information and determine:

 Spring free height = \_\_\_\_\_\_\_\_\_\_\_\_\_

 Squareness = \_\_\_\_\_\_\_\_\_\_\_\_ (usually within 1/16 in. [1.6 mm])

**[ ]  2.** Measure the valve spring **free height**and **squareness***.*

 Cylinder #1 Intake \_\_\_\_\_\_\_\_/\_\_\_\_\_\_\_\_ **OK [ ]  NOT OK [ ]**

 Exhaust \_\_\_\_\_\_\_\_/\_\_\_\_\_\_\_\_ **OK [ ]  NOT OK [ ]**

 Cylinder #2 Intake \_\_\_\_\_\_\_\_/\_\_\_\_\_\_\_\_ **OK [ ]  NOT OK [ ]**

 Exhaust \_\_\_\_\_\_\_\_/\_\_\_\_\_\_\_\_ **OK [ ]  NOT OK [ ]**

Cylinder #3 Intake \_\_\_\_\_\_\_\_/\_\_\_\_\_\_\_\_ **OK [ ]  NOT OK [ ]**

 Exhaust \_\_\_\_\_\_\_\_/\_\_\_\_\_\_\_\_ **OK [ ]  NOT OK [ ]**

Cylinder #4 Intake \_\_\_\_\_\_\_\_/\_\_\_\_\_\_\_\_ **OK [ ]  NOT OK [ ]**

 Exhaust \_\_\_\_\_\_\_\_/\_\_\_\_\_\_\_\_ **OK [ ]  NOT OK [ ]**

Cylinder #5 Intake \_\_\_\_\_\_\_\_/\_\_\_\_\_\_\_\_ **OK [ ]  NOT OK [ ]**

 Exhaust \_\_\_\_\_\_\_\_/\_\_\_\_\_\_\_\_ **OK [ ]  NOT OK [ ]**

Cylinder #6 Intake \_\_\_\_\_\_\_\_/\_\_\_\_\_\_\_\_ **OK [ ]  NOT OK [ ]**

 Exhaust \_\_\_\_\_\_\_\_/\_\_\_\_\_\_\_\_ **OK [ ]  NOT OK [ ]**

Cylinder #7 Intake \_\_\_\_\_\_\_\_/\_\_\_\_\_\_\_\_ **OK [ ]  NOT OK [ ]**

 Exhaust \_\_\_\_\_\_\_\_/\_\_\_\_\_\_\_\_ **OK [ ]  NOT OK [ ]**

Cylinder #8 Intake \_\_\_\_\_\_\_\_/\_\_\_\_\_\_\_\_ **OK [ ]  NOT OK [ ]**

 Exhaust \_\_\_\_\_\_\_\_/\_\_\_\_\_\_\_\_ **OK** **[ ]  NOT OK [ ]**

**[ ]  3.** Based on the results, what is the needed action? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_