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:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Page 89

**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? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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