

# Valve Spring Squareness and Free Height

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. 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	<input type="checkbox"/>	NOT OK	<input type="checkbox"/>
	Exhaust	_____/____	OK	<input type="checkbox"/>	NOT OK	<input type="checkbox"/>
Cylinder #2	Intake	_____/____	OK	<input type="checkbox"/>	NOT OK	<input type="checkbox"/>
	Exhaust	_____/____	OK	<input type="checkbox"/>	NOT OK	<input type="checkbox"/>
Cylinder #3	Intake	_____/____	OK	<input type="checkbox"/>	NOT OK	<input type="checkbox"/>
	Exhaust	_____/____	OK	<input type="checkbox"/>	NOT OK	<input type="checkbox"/>
Cylinder #4	Intake	_____/____	OK	<input type="checkbox"/>	NOT OK	<input type="checkbox"/>
	Exhaust	_____/____	OK	<input type="checkbox"/>	NOT OK	<input type="checkbox"/>
Cylinder #5	Intake	_____/____	OK	<input type="checkbox"/>	NOT OK	<input type="checkbox"/>
	Exhaust	_____/____	OK	<input type="checkbox"/>	NOT OK	<input type="checkbox"/>
Cylinder #6	Intake	_____/____	OK	<input type="checkbox"/>	NOT OK	<input type="checkbox"/>
	Exhaust	_____/____	OK	<input type="checkbox"/>	NOT OK	<input type="checkbox"/>
Cylinder #7	Intake	_____/____	OK	<input type="checkbox"/>	NOT OK	<input type="checkbox"/>
	Exhaust	_____/____	OK	<input type="checkbox"/>	NOT OK	<input type="checkbox"/>
Cylinder #8	Intake	_____/____	OK	<input type="checkbox"/>	NOT OK	<input type="checkbox"/>
	Exhaust	_____/____	OK	<input type="checkbox"/>	NOT OK	<input type="checkbox"/>

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

\_\_\_\_\_