

Valve Spring Squareness and Free Height

Page 89

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

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? _____
