

Valve Spring Squareness and Free Height

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: 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	_____	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? _____
