

JWT VQ35DE IN-CHASSIS VALVE SPRING COMPRESSOR

This tool allows a single technician to replace valve springs in a safe and professional manner without removing the cylinder heads from the vehicle.

www.jimwolftechnology.com

Inspect that the compressor screws are clean and operate smoothly. Place a drop of oil on each compressor screw before using tool. The tool can remove all 4 springs on each cylinder per setup. Follow the steps below for each of the 4 valves and move the tool to the next cylinder. With all of the cams removed, shop air (50-75psi) can be applied in each cylinder to insure the valves stay closed during spring removal. Either lock the engine from rotating due to the shop air pressurizing the cylinders or rotate the engine to bottom dead center on the cylinder you are currently pressurizing.



Bolt the tool to the head using the 2 inboard cam bearing cap bolt holes



Install the supplied bucket over the valve. Make sure the bucket moves smoothly and is not binding.



Tap the bucket with a brass or plastic punch to unseat the spring retainer locks before compressing the spring.



Lower the screw until it contacts the bucket, and rotate it 5 rotations. Stop if any binding is felt and investigate!



Using a magnet or a dental pick, remove the retainer locks



Back off the screw fully into the tool.



Remove the bucket



Remove the retainer and spring



On reinstall, compress the bucket and drop the retainer locks onto the bucket and move them into place.