

VST-69 / VST-70 Rimac® Valve Spring Tester Instructions

Please read instructions before using

Preparation

- The spring tester comes to you carefully packed under a tension of approximately 100 pounds to avoid damage during transit. When setting up the tester, loosen the screw at the head of the instrument to remove the tension. We recommend keeping all packaging in the event you need to send the unit for recalibration or service. To ship your tester, put it back under tension and tighten the set screw.
- Securely mount the tester to your workbench for safety purposes.
- Adjust the lever handle so you are pushing in a downward direction when using the spring tester.

Easy to Operate

- Place the spring to be checked approximately in the center of the lower platform.
- Using the lever handle in a smooth, even motion, bring the upper platform down until the spring is compressed to a specified length as indicated by the reading on the side scale.
- The pointer on the front dial face will indicate the pressure required to compress the spring to its specified height. This is commonly referred to as "tension" in valve spring data.

Using the Red Needle Correctly

- Before compressing your first spring, move the red needle so it is a few pounds more than the black needle, which should be zeroed on the dial face.
- As you compress a spring and watch the micrometer, the red needle is being pushed by the black needle. Once you are done compressing and relieve the pressure, the red needle will remain in place so you can see the measurement.
- Do not push the red needle into the black needle at any time. This could damage the spring tester.

Using the Adjustable Stop

- Both VST-69 and VST-70 are equipped with an adjustable stop to make comparing multiple springs faster and easier.
- Place the spring in the center of the lower platform.
- Compress it to the specified length.
- Tighten the stop for comparing additional springs.
- When extreme accuracy is important, it is best to not use the stop, but to check each spring individually for both length and tension.

IMPORTANT: Note that as the spring is compressed, the lower platform moves down but the top holds the upper platform at a fixed position. Do not make an error in testing springs by first "fixing" the length by means of the stop and then inserting the spring between the upper and lower platforms.

Making Adjustments

- Zero is adjustable with a range of 5 pounds by moving the small lever at the bottom of the dial. Should the pointer on the dial face become loose, the bezel and glass front can be removed to adjust the pointer.
- Periodically check the length indicating pointer is correct. Lower the upper platform until it resets on the lower one. The pointer should align with the zero on the side scale. If it has been bent, you will get an incorrect reading. A small difference on this reading will result in a variation of many pounds in the tension reading.

