



LANCE'S TECH TIP:

Rimfire Bolt Shim Installation

~ A General Guide ~

Rimmed Cartridges use the thickness of the cartridge rim for head-spacing .22 Rimfires Headspace on the Case Rim, and the actual head space is in the recessed face of the bolt.

You should first measure the depth of your bolt face pocket to insure it meets SAAMI minimum depth.

Shimming between the two bolt halves ensures the bolt is up gently tight against the breech.

You can use our color coded numbered shims like a gauge to find the when the bolt face touches the barrel breech face, and then calculate where you want to be with your bolt headspace depth and rim thickness measurements.

I cannot tell you which shim best works with your rifle, you decide that yourself by fitting and feel and by shooting.

Installing Bolt Shims requires fitting by hand, and checking with the Bolt installed in the Rifle, and Locked Down - you do not measure with the Bolt out of the Rifle.

To establish the Bolt/Breech fit, shims are installed and fitted on an empty chamber.

If possible it may give you a better feel if you leave the extractors off some rifles while fitting shims.

Start with a 4 or 5 Pak of shims, install the .0015" or .002" thinnest shim and see how your bolt closes, if it seems to close as normal, then continue to install each thicker shim until the bolt starts to close harder than normal. At the point where your bolt begins to close hard, that was the amount of slack that was in your bolt, measured by whatever shim or shims combined were

needed to bring the bolt up tight to the breech. Now it is best to remove that shim, and step back one number, example would be if a .005" Red shim causes the bolt handle to close harder than normal, then take it out and install a .004" Purple.

If you have to force or put undue stress on your bolt to close it, you should reduce the number of shims. You will generally only use 1 of the 4 or 5 shims in the package, but you can stack shims together if needed. When you have the correct shim installed, your bolt should close normally or just (ever-so) slightly tighter than normal. Put a very small drop of oil on the shim. Now you can go to the range and with the barrel pointed in a safe direction, once again check fit with your favorite ammo.

Due to variations in rim thickness, you may have to reduce the thickness of shims, remember you have already removed all the excess headspace from the bolt/breech, so now the only thing to do is remove thickness (shims) if / as needed to get to your sweet spot or required headspace for the rim thickness of your favorite cartridge.

For Longest Shim Life use a drop of oil or a (very small amount of) grease on your shim.

If you have to force or put undue stress on your bolt to close it, you should reduce the number of shims. A minimum of clearance should be maintained, while maintaining proper headspace. Do not put undue stress on the bolt by shimming too tightly as it is unnecessary!

At no time do you want to force the bolt to close, did I explain that clearly?

If you have any question, use a headspace gauge to check for proper headspace.

Bolt Shims have in many instances cured light strikes. Will they help with Accuracy? Don't take my word for it, Read our the Customer Reviews or ask our Customers

Simply Chambering More Consistently Yields More Consistent Results.

Your Satisfaction is Guaranteed, if you feel you receive no benefit you may send your shims back for a Full Refund.

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