

Charlie's spring compressor

Here it is in a nutshell, coconut. Probably more pics and info than you need, but it may turn on some light bulbs in your head.

A = Platform	I = 5" carriage bolts
B = Front block	J = Furniture lags
C = Recess for yolk	K = Restraining nut
D = Center support	L = Additional support brackets.
E = Nylon bushing	M = Center support holes
F = Sliding block	N = Adjustment holes
G = Rear block	O = Center support adjustments
H = Compression bolt	

All are in inches

The platform (A) is $6 \times 24 \times 3/4$.

The front block (B) is $3 1/2 \times 3 1/2 \times 3 1/2$ although it doesn't have to be that thick. 2 inches would have been fine.

The rear block (G) is $3 1/2 \times 1 1/2 \times 2$.

The center support (D) is $3 1/2 \times 3 1/2 \times 1 1/4$.

About the sliding block (F). If I had to do it again, I would make it $3 1/2 \times 3 1/2 \times 2$. That way, it will set flat on the platform. (Keep in mind that my support brackets (L) are under the end blocks).

The nylon bushing is $1 \times 3/8$ inch. It isn't in the picture but there is another one cut in half to fit the recess of the cap on the back of the receiver of the rifle. I drilled the 1 inch nylon bushing hole in the sliding block about $1/4$ inch deep and put a screw in to hold it secure. I had to drill a little lip in the center of the nylon bushing to provide a flat surface to hold a washer so the screw wouldn't slip through.

The compression bolt is a $1/2$ inch bolt about 8 inches long (it can be longer, depending on the platform length and/or block sizes (Take that into consideration.) made out of bolt stock. I drilled the hole just a bit smaller than the nut in the block and drew it down into it (K). This is the driving mechanism for the sliding block.

The carriage bolts are 5 inch std. $1/4$ inch bolts and nuts.

The furniture lags (as I call them) are $1/4$ inch. They are wood screw on one end and std. thread on the other. I don't remember the length.

I drilled the platform so that I could adjust the center support to three locations. Never saw one with a center support, but for safety sake I added it.

The hole in the recess for the yoke I drilled was about $3/4$ inches deep into the block. I cut the bushing out

of a thin plastic bottle as well as the end insert. Keeps from marring the finish.

On the center support, I first drilled the 1¼ hole then cut the block in half. I then put in the adjusting screws and assembled it. The adjustment holes on the platform are set about 3 inches apart from center. I think you can see the lines on the board. I keep it in the center ones. You probably don't even need the adjustment. That's me though, overkill on everything.

The additional support brackets (L) are 3 inch. I notched under the blocks to hide them and give the sliding block a flat surface.

When drilling the holes for the recess for the yoke, the center support, the bushing hole in the sliding block and the hole for the compression screw, try to keep them pretty well centered and in line. They don't have to be perfect but somewhat close.

I forgot to point out on the rear side of the sliding block (F) is the pilot hole for the compression bolt. That is a ½ inch hole about ½ inch or so deep. I put a small washer in there to keep from chewing out the wood in the bottom.

This should give you a general idea of what I did. As I said, I built this on the fly, no real idea where I was going when I started. I made this from a bunch of junk I had laying around here and probably don't have \$5.00 in it, but it works and works well. I have a lot of power and hand tools and like to tinker and build things. Sometimes it gets me into trouble.

If you build something, let me see what it is that you do. After all, two heads are better than one.

Revision:

The above compressor was built around the Gamo and the B-19. The revision below will adapt it to a Fast Deer and the B-4-2 as well as many other springers. These measurements are all approximate. You can of course cut and adapt as required to fit your needs.

Looking at the rear block B1 (Pic Revised compressor parts 1 and 2) cut a slot 7/8 inch wide and 1 ½ inches deep.

Looking at the lower half of the center support (D1)cut a notch ¾ inch wide and ½ inch deep.

Looking at the Upper half of the center support, cut a notch ½ inch wide and ¼ inch deep.

Thanks

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