

Post date:

Monday, January 20, 2014 - 01:26

Last modified:

Sunday, December 14, 2014 - 14:20

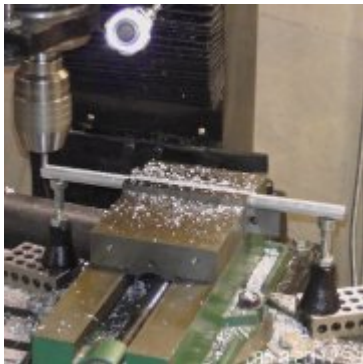
**Note:** *In the images here the lights look blue/purple, its the camera, the lights are white.*



The lighting in my basement is not the best, the ceiling is only 6'8" so the light will not spread and seeing at the mill is tough (up in-till now ive been using a magnetic LED and have wanted something better).

Peeking around the net and seeing what other people do (a ring of LEDs around the bottom of the quill is popular) i was going to do similar. At first i was gonna make a ring with two rows of lights, the outer row was to be set at an angle to point towards the center of the tool but read an idea on a forum where a person planned on mounting some LEDs on adjustable arms so the light beams could be pointed where he wanted them. I kind of like the idea, but the lights i bought where a 9" long flexible string of LEDs (had plans on making rings) and having a few "arms" mounted to the mill seamed like they would get in the way some how or another... so, the thought of mounting the lights in a piece of bar stock and then being able to rotate them might work out good and thats what i set out to do.

Before starting this project, i started to mount a motor from a cordless screw gun to the Mills 'Z' axis to motorize the head so i didnt have to deal with cranking the head up and down by hand. For that project i used a power supply from a PC for the source of power for the cordless motor so i had easy access to a 12v power source and hence i [bought LEDs](#) which needed 12v to get them going. The LED strips where 9" long and a set of 4 came in the package.



The LED strip are a little over 1/4" wide, so i milled a 1/4" notch down a piece of 1/2" aluminium bar stock which was 11" long. The vice i have is only 5" so the ends where hanging out a little far, i used some jacks under the ends and it panned out well. If i was to do this again i would not mill the whole length of bar, would keep away from the ends 5/8" and use blocks and fingers to support the ends of the bar stock, by doing that it would also give a cleaner look to the over all job.

Cheapo 4x6 band saw (which i love), cutting some small flat stock for the back mounts of the side strips. The back mounts have a 1/2 hole in the bottom which the lights slide through a 1/2 x 3/4 long cut out mill in the top which will bolt to the mills head and a 1/4-20 thread in the side of the 1/2 hole for a "thumb screw". Again with the camera, the little vice being held in the band saw is a dark blue.

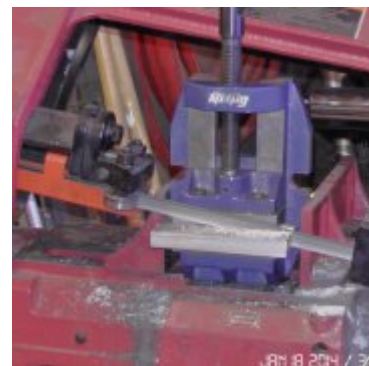
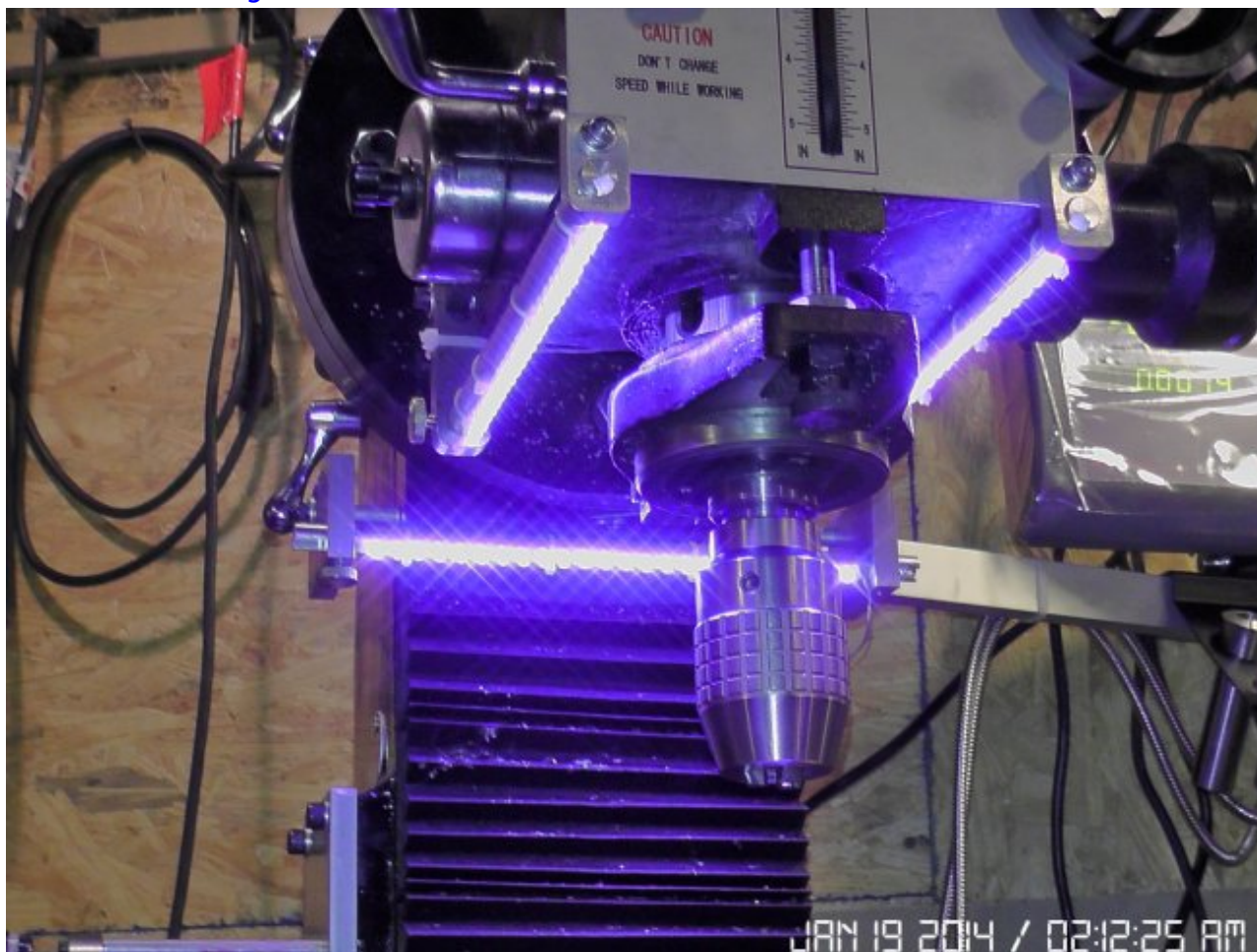


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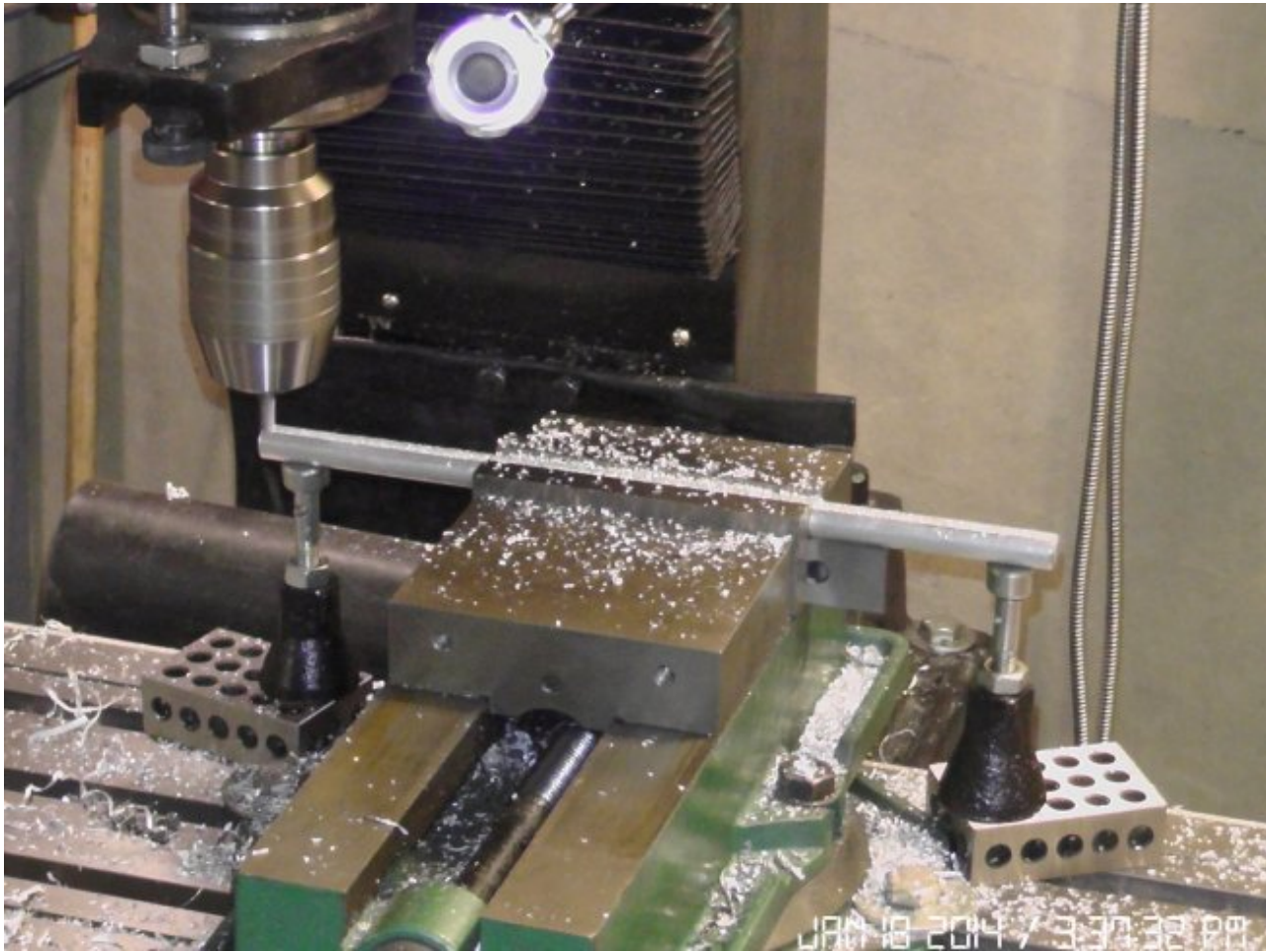


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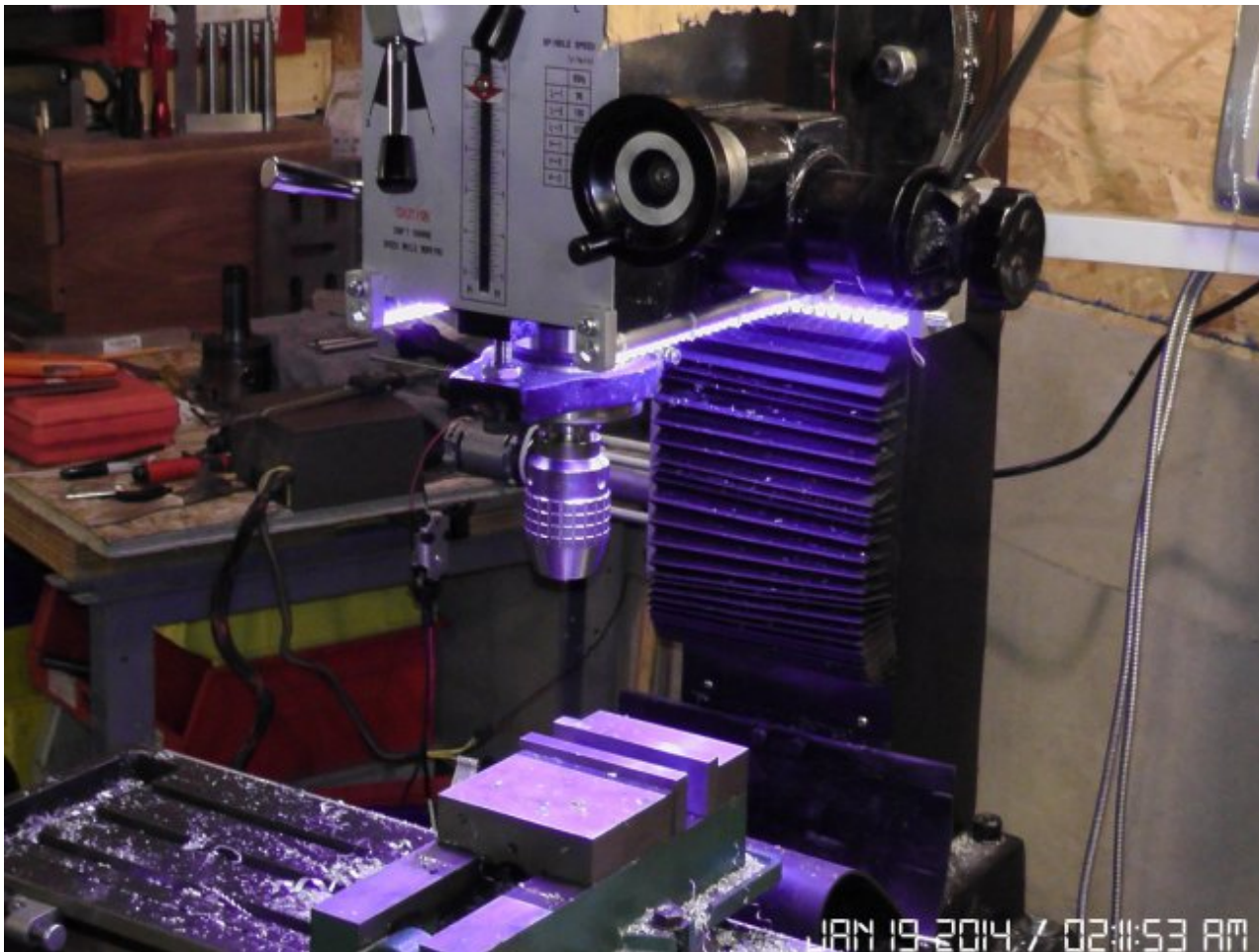


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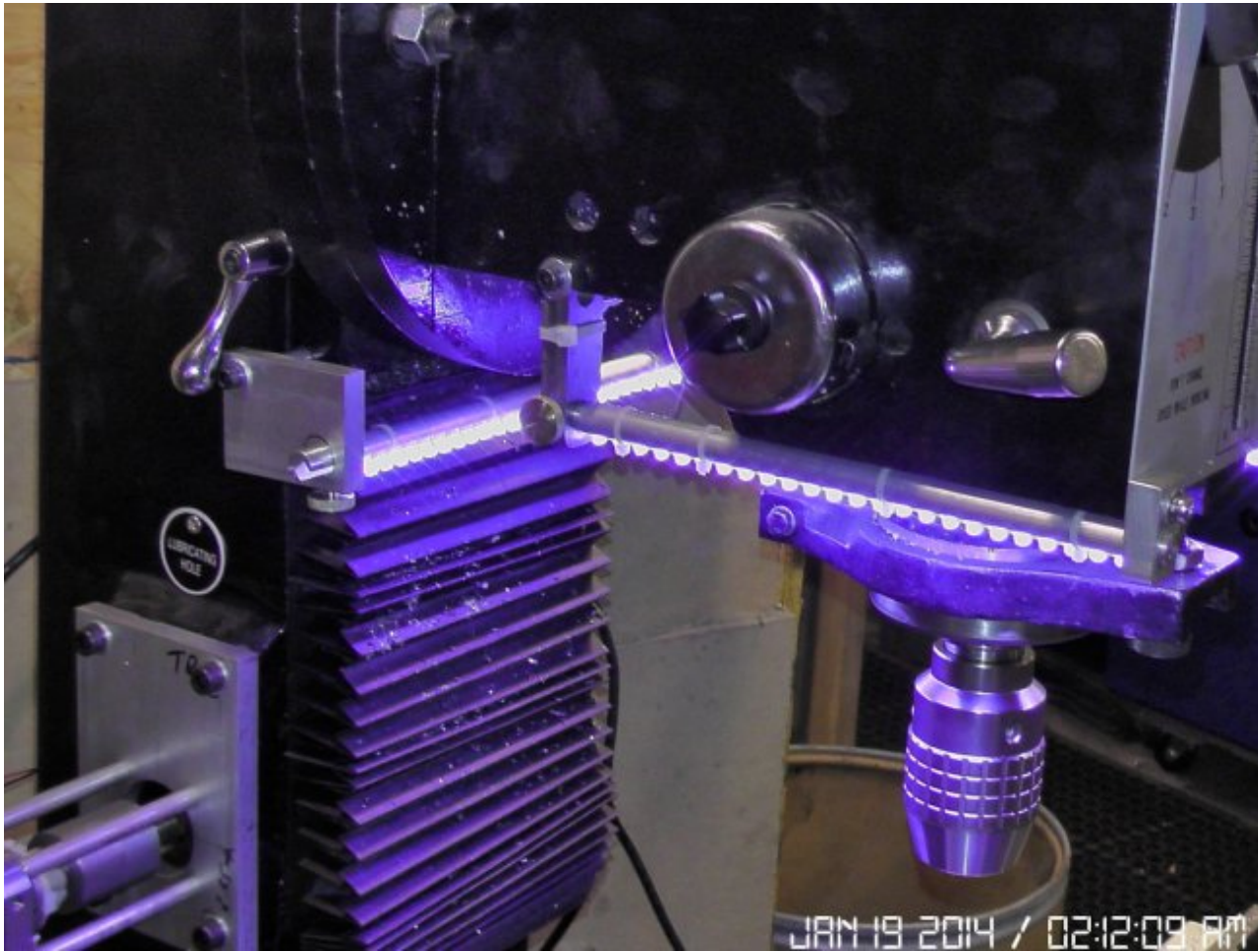


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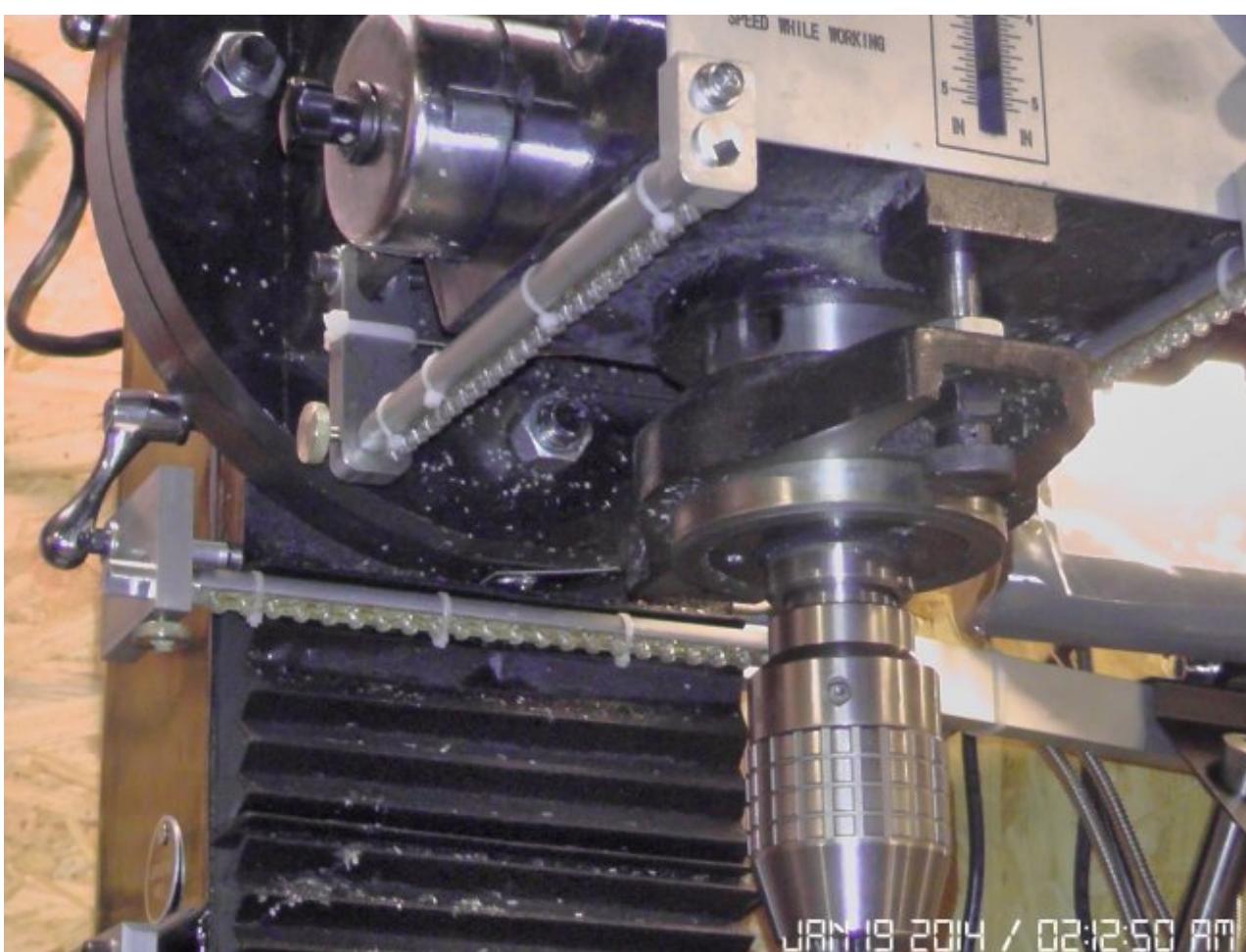


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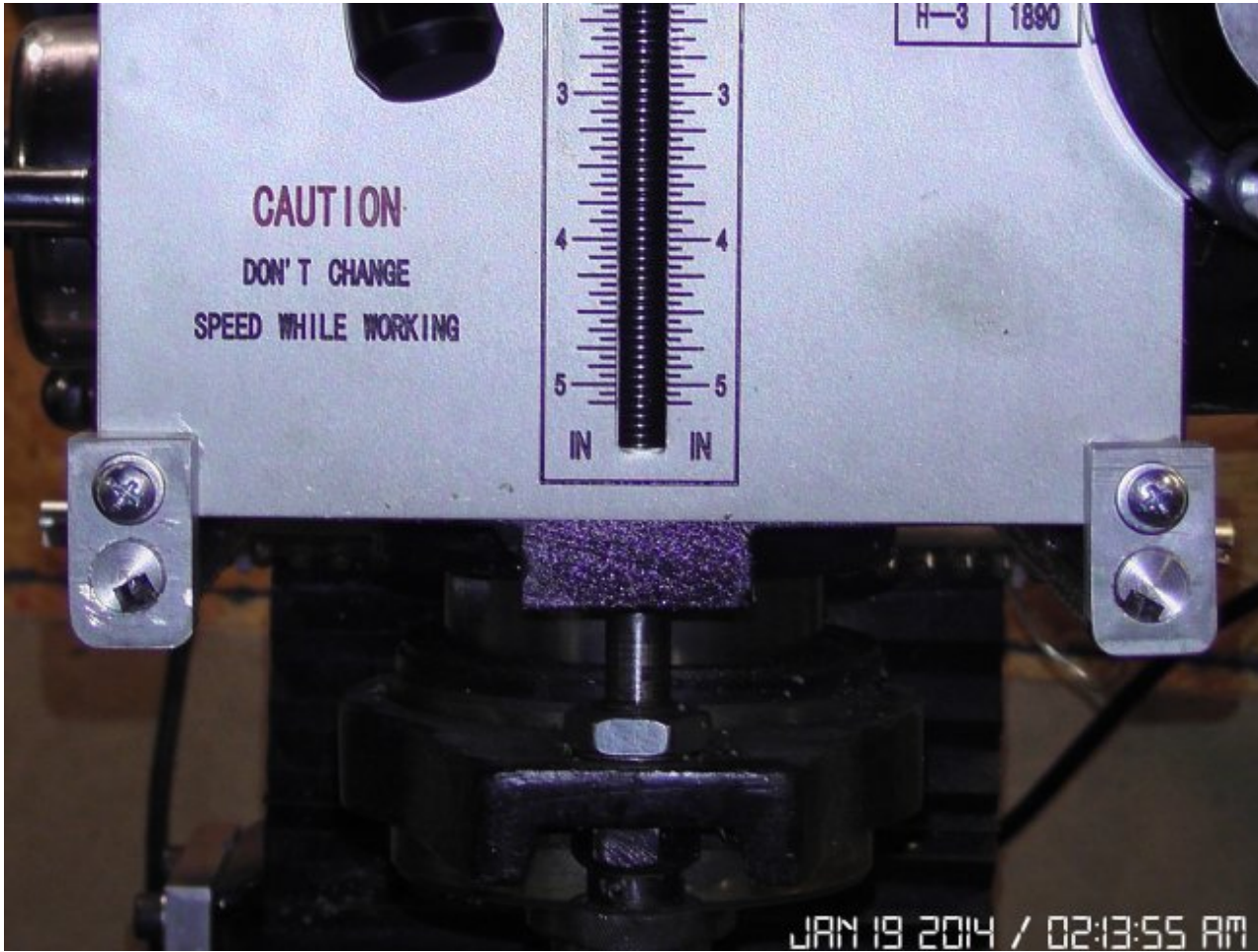


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