

How I added wheels to my Jet JWL-1221 Lathe

I was pushing my Jet lathe just to clean up the shavings. I decided to order four wheels that rise up and down for moving a work table from Amazon. When I got them I needed to come up with a way to install them on the lathe. I use a 1x4" wood to be the mounting media. After a month I heard a pop and the wood mount had cracked. I decided to use a metal brace instead. Since I could not find the size I needed, I found a framing brace that was the right width and length. So for \$14 I got the brace. I took the wooden brace and made a copy onto the metal bar. I was able to get the four units I needed for the project.

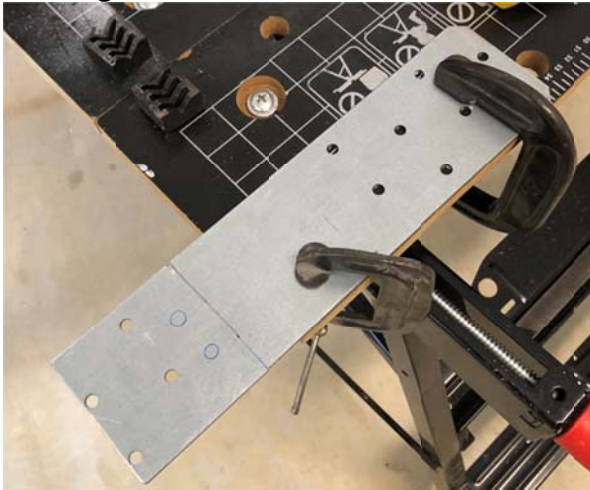
Tools needed:



1. Drill with stepped drill bit
2. Square and ruler
3. File and clamp
4. Punch and hammer
5. Wrenches

Material:

Framing brace 3 $\frac{1}{4}$ " wide and about 17" long. Found at Lowes



8 nuts, bolt and washer (I had $\frac{1}{2}$ " sae type)

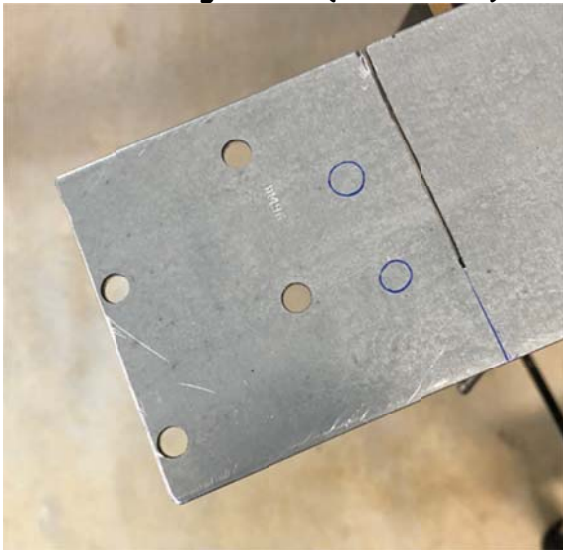
4 up and down wheels



Since the holes on the Jet lathe and casters do not line up I had to enlarge the holes on the lathe legs.



My first step was to take the measurement's for the mounting holes from the caster wheel mounting holes. (blue holes)



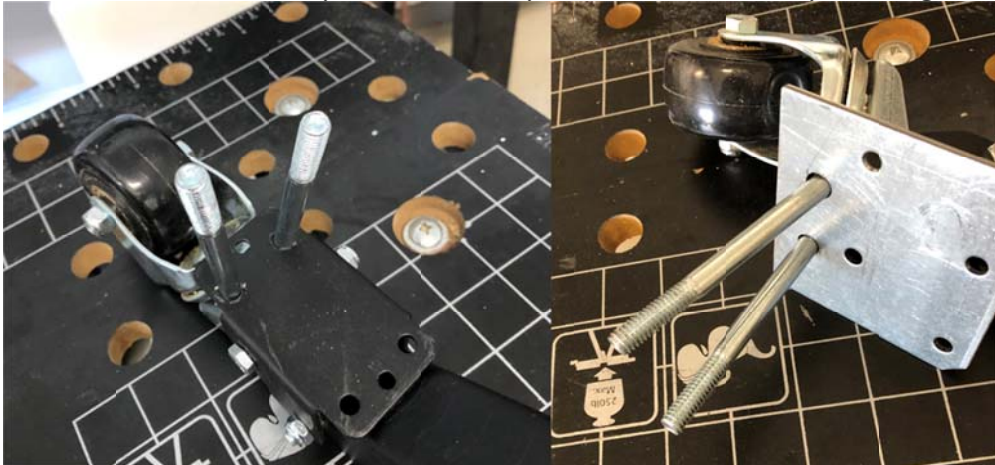
I cut the length according the height recommended by the caster instructions. Since I had the wooden model I mad the metal dimensions the same as the wooden ones. These came out to $3 \frac{1}{4}$ " \times $3 \frac{1}{4}$ " square.

Once the framing plate was cut into the these dimensions, I used the step drill bit to make the holes to $\frac{11}{32}$ " to $\frac{3}{8}$ " hole.

I then used a file to smooth out the edges of the cut plate. I used a hack saw to cut the metal brace.



Once all that was completed I then put the caster and plate together.



I had to enlarge the holes on the Jet lathe legs since the caster wheel mounting holes are closer together than the hole on the lathe so everything would match up.



With wood brace



broken brace



New brace

