

- WE CHOSE TO GET THE LITTLE MACHINE SHOP MODEL #5500.
- LOOKING AT THE SIEG SX2.7, THEY ARE IDENTICAL IN EVERY WAY.
- THIS KIT WILL FIT EITHER MACHINE.
- YOU WILL HAVE TO MAKE A FEW MODIFICATIONS TO THE TOP OF THE CASTING FOR THE Z AXIS.

# First, take off all of the handles





# Remove all of the plates









With the plates removed, slide the table off. You may need a rubber mallet for some help.



Remove the cap screws from the lead nut, and the lead screw comes off





Remove the cap screws in the saddle.  
They hold the Y axis lead nut on.



The easiest way to remove the Y lead screw is from underneath the machine



# Remove the sheet metal cover from the back of machine



Remove the metal plate from underneath the machine head



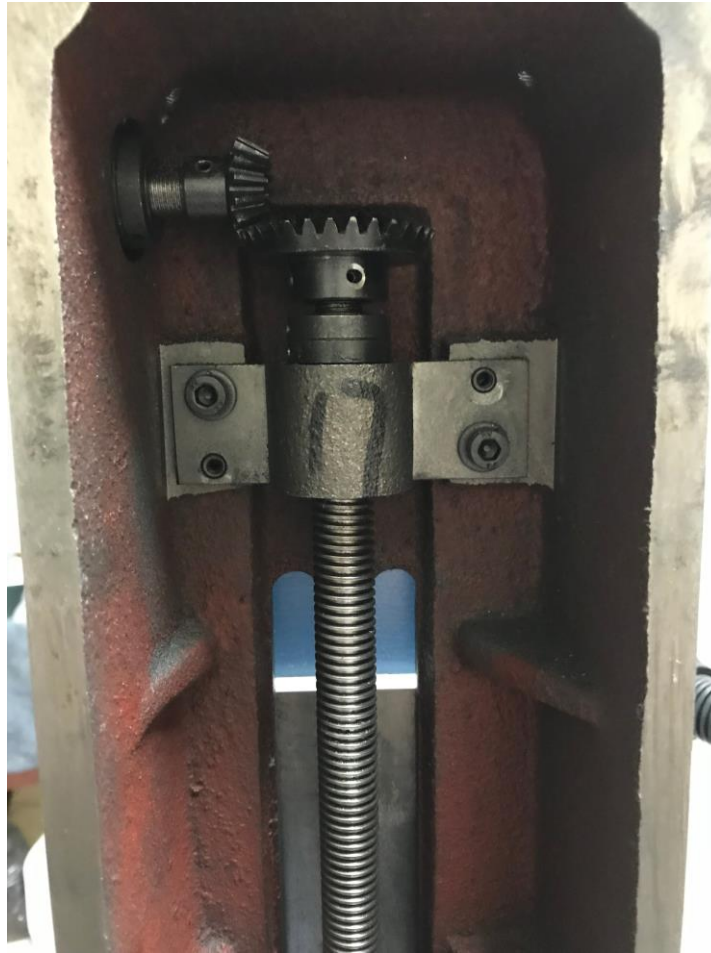
- Just make sure you have locked the head in place. Bring it all the way to the top.

It will expose these two bolts that hold the Z lead nut. Remove them.

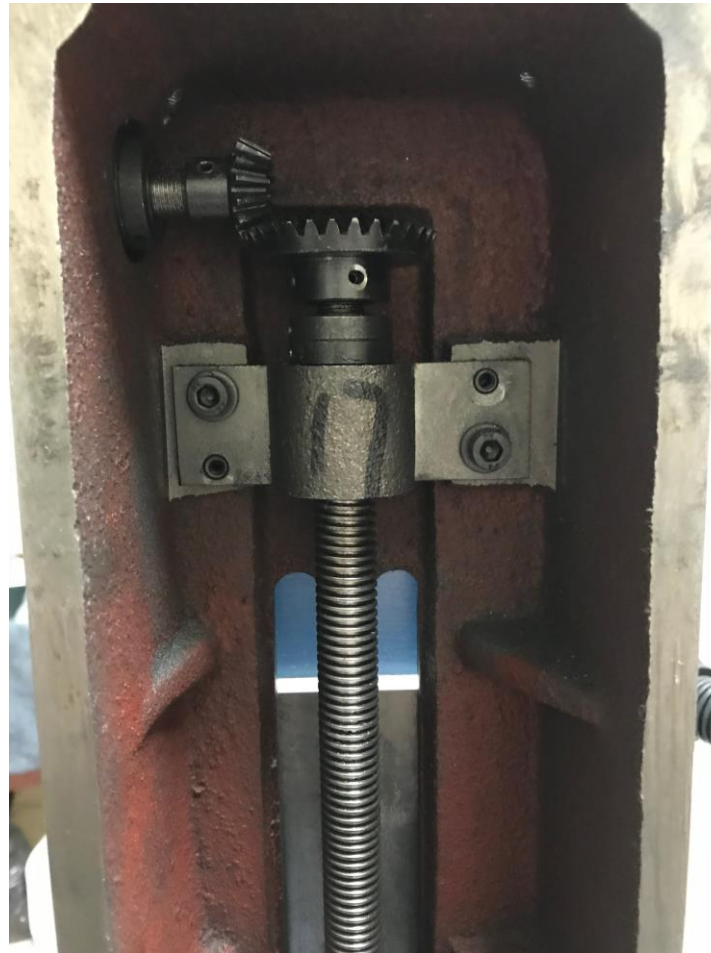




# Remove the pins and cap screws from the bearing block



Now remove the bearing block of the Z axis. You can now remove the Z screw.



Now that we've torn it all apart, let's see if we can put it back together.

# We will start with the Y axis



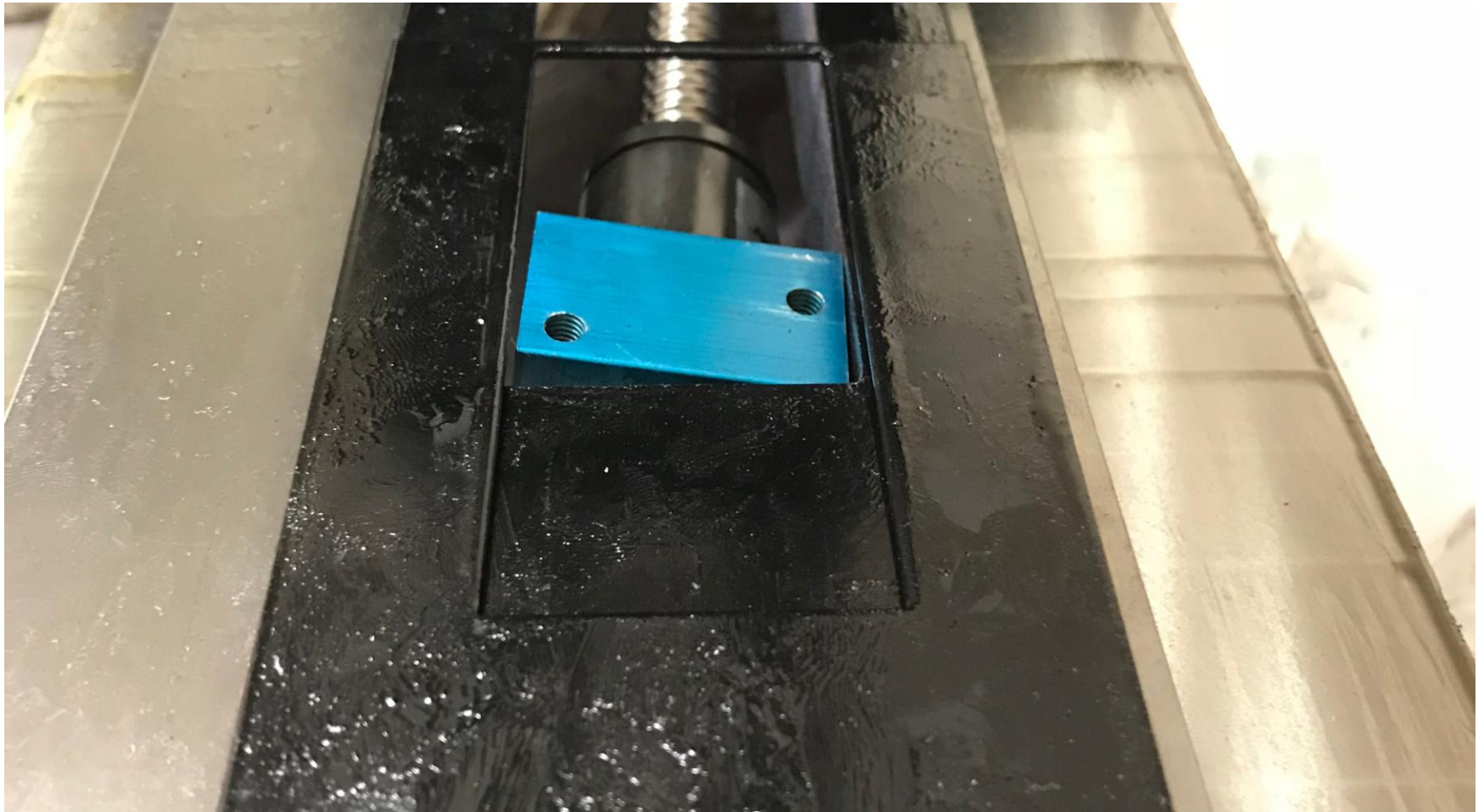
These two covers need to go back on the machine.

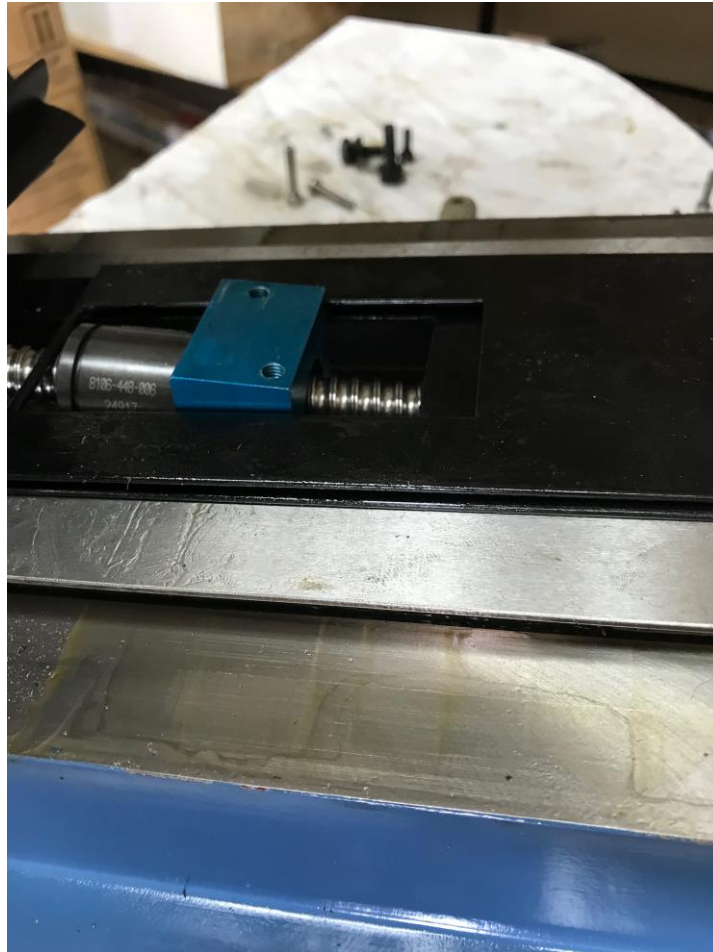


You'll need to bring the Y ball screw assembly from underneath.



The Y ball nut block will be in this position when bolted on.





There are two covers. The long one will be in back and the short one in front



The block needs to be inside the window of the front plate



The best way to put these covers back on is to slide them underneath the saddle from the front.



They will want to get hung up on the machined flat where the y block bolts down. Slide the saddle on just a little.

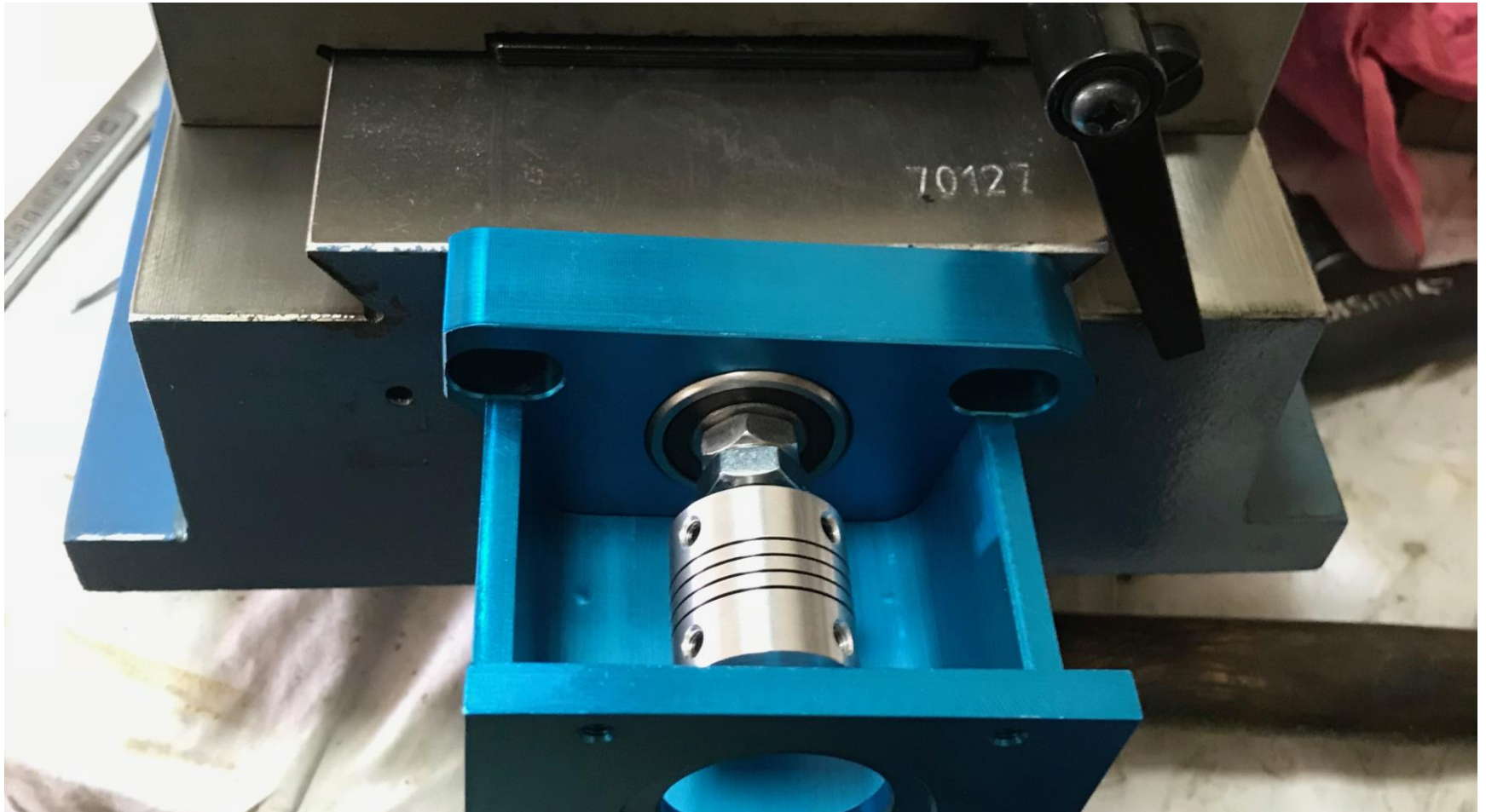


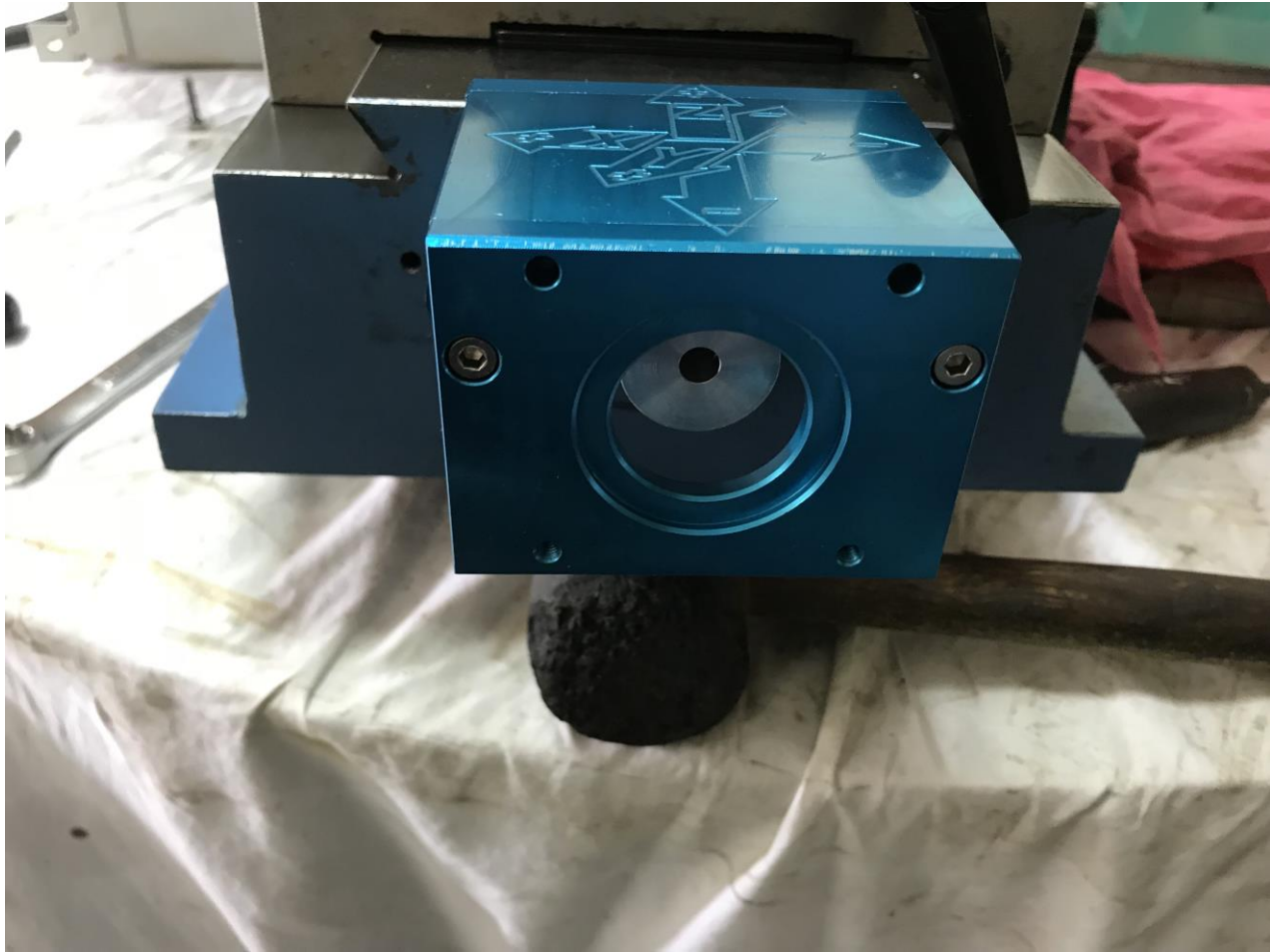
Then you can slide the covers underneath the saddle. This is a bit tricky, so be patient. Bolt in place.





Now you can attach the Y motor  
mount assembly







# Bolt down the X ball nut block







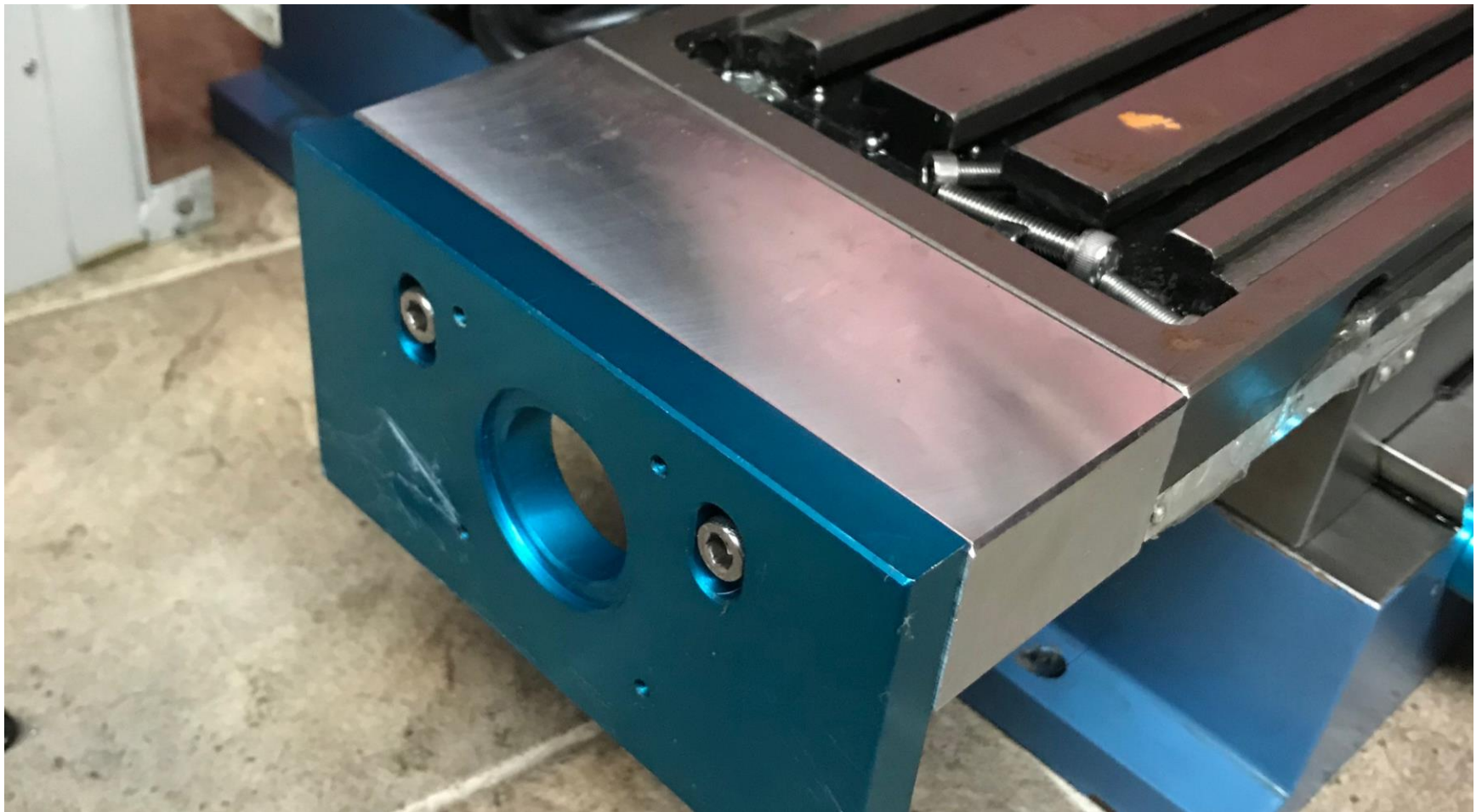
Slide the table back on and install the bearing block on the right side of the table



The motor mount goes on the left side  
of the table



There is an extension with the X axis motor mount. Use the long bolts that came with the kit to attach both



This will keep from losing any travel in  
the X axis

Now you'll need to do some work on the top of the casting



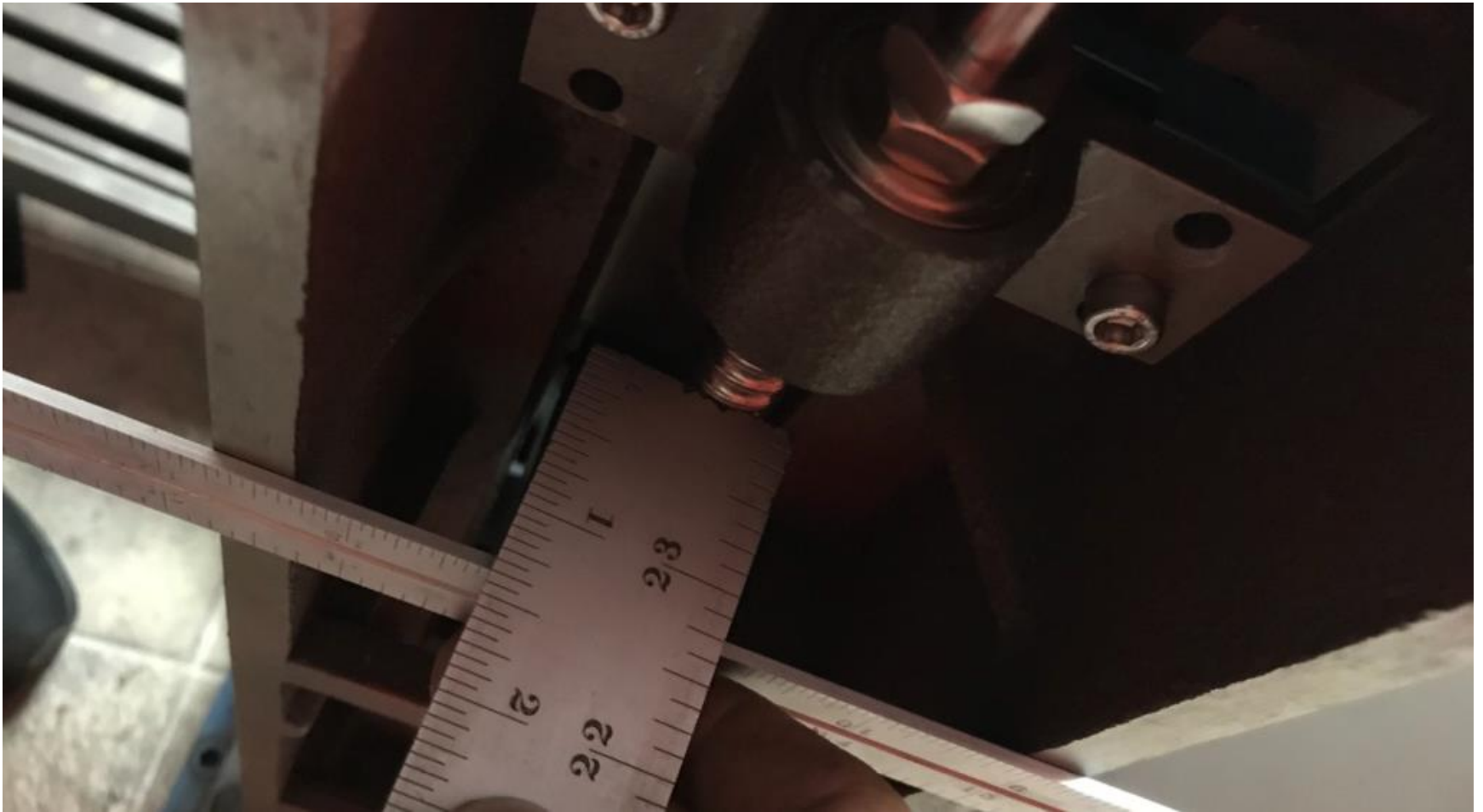
A spacer goes with the bearing block  
for the Z axis



# Bolt that on.

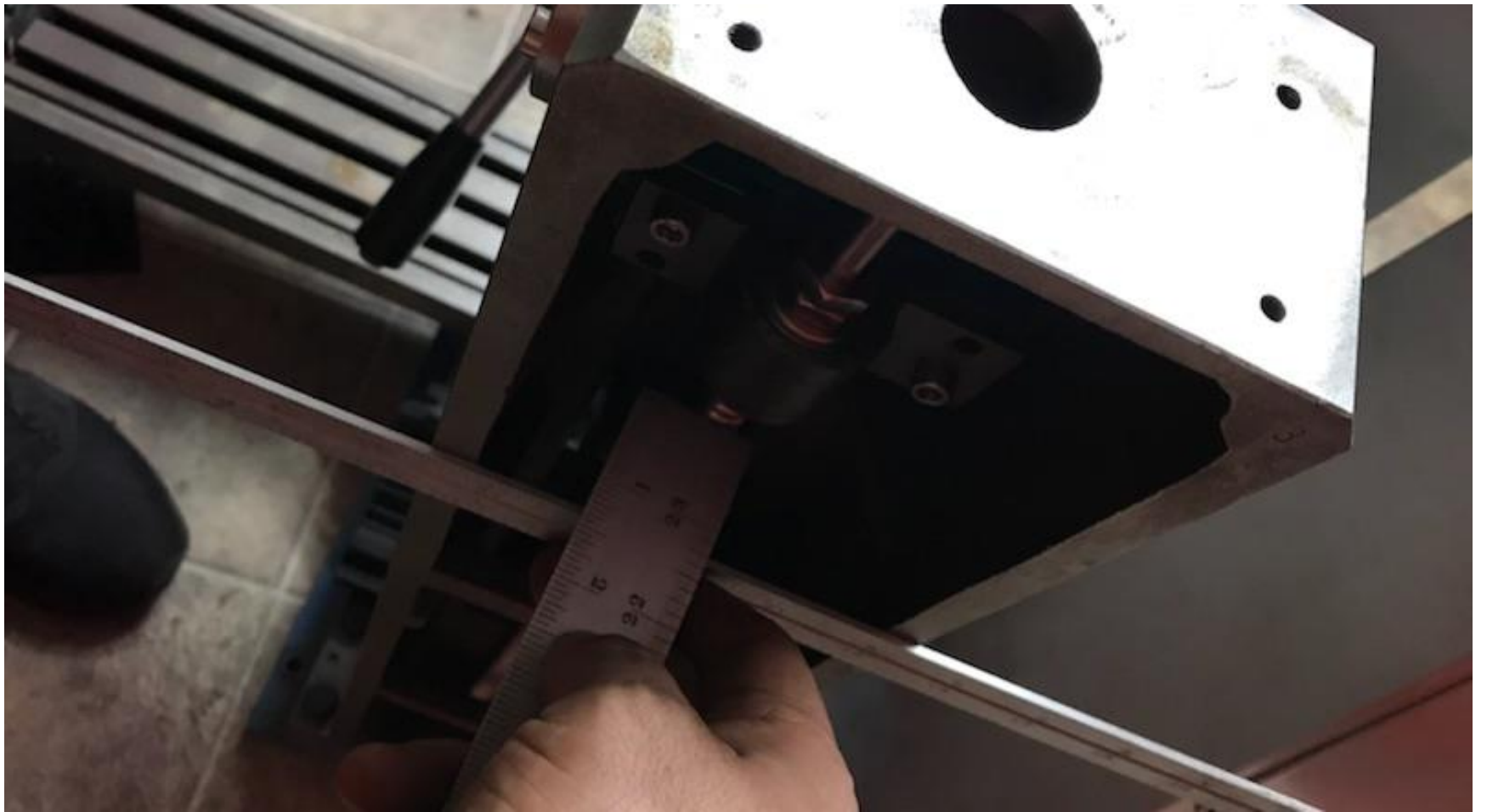


Put the ball screw in and use the two nuts to tighten it just a bit



Now you can take a measurement from the back of the machine to the ball screw. Add  $\frac{1}{2}$  of the diameter of the ball screw to that measurement and transfer to the top of the casting. This is where you will drill the hole for the motor shaft.





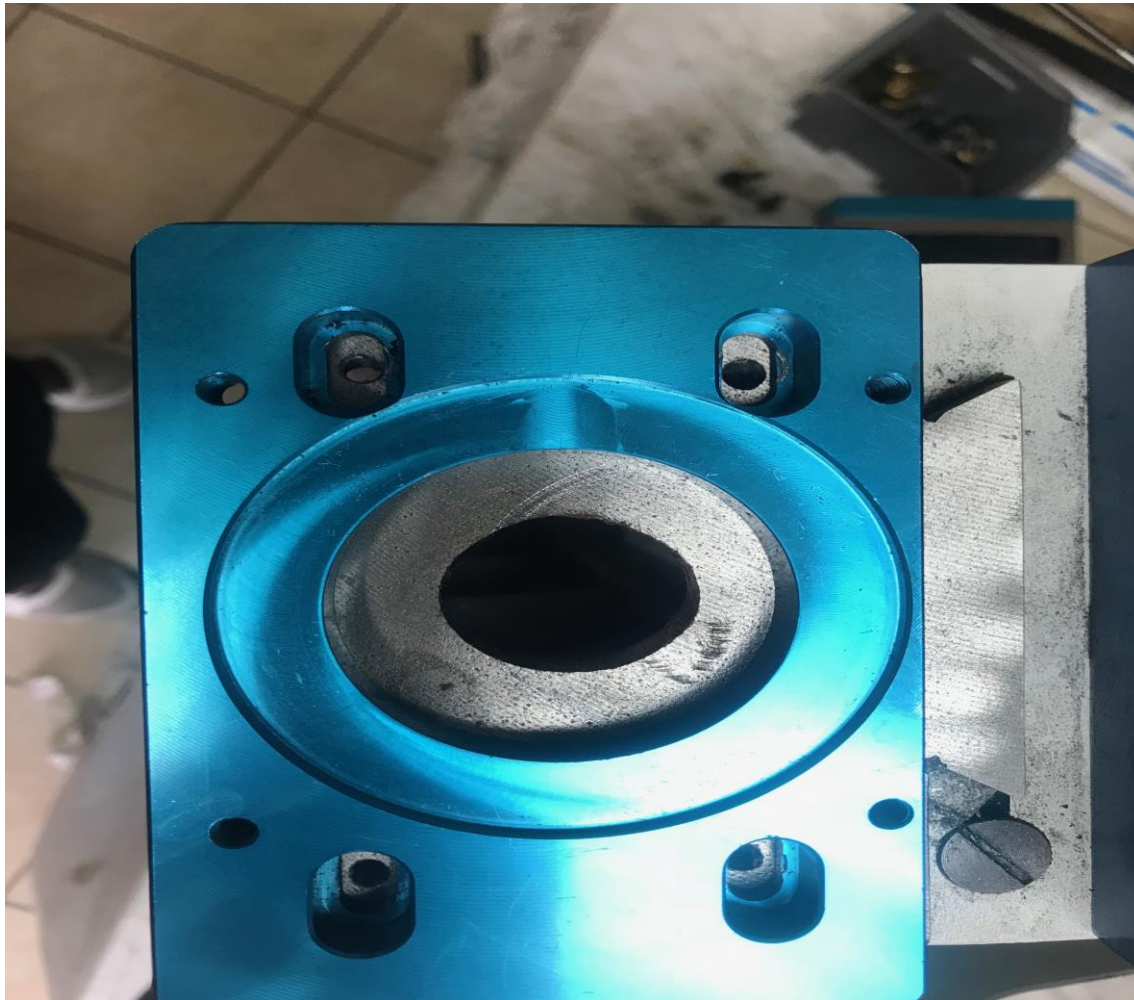
Drill a hole for the motor shaft. You will want it to be 1-1/4" in diameter. A standard hole saw from the big box hardware store will do the trick. The cast iron is very soft. A hole saw made for wood will work just fine.



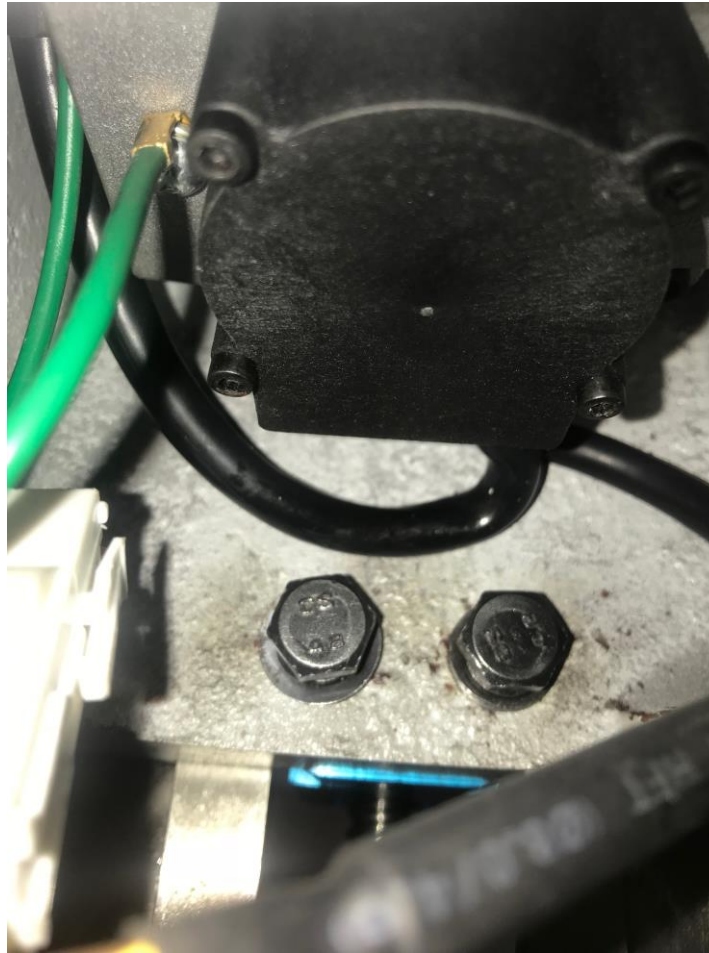
Put the Z axis mount on top, and attach the motor to the ball screw with the coupling.

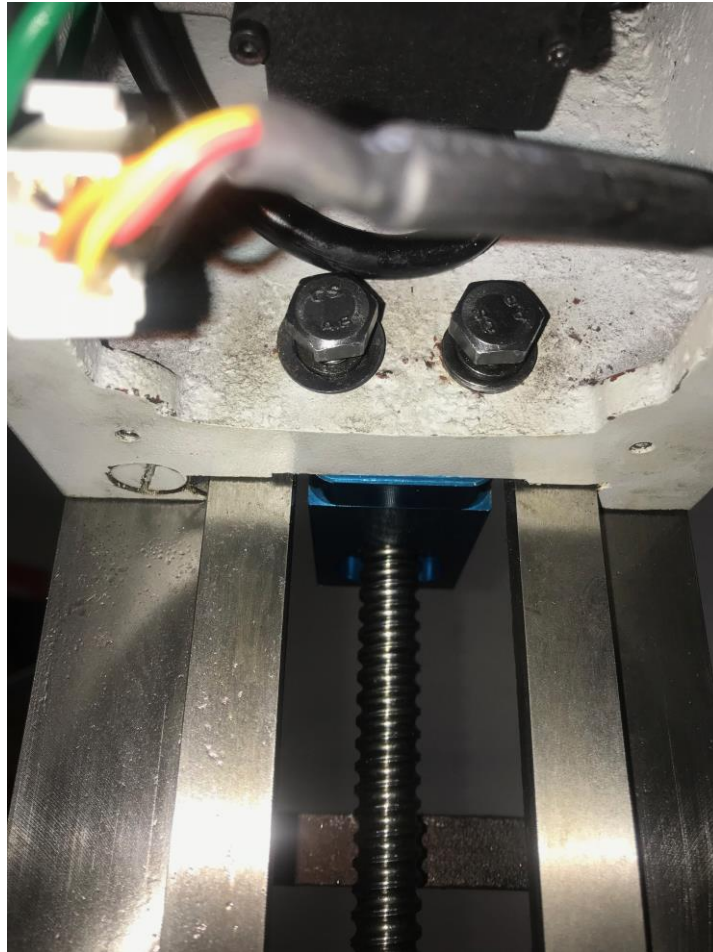


Mark the four mounting holes and drill  
and tap 4 holes to 5mm



Use the existing bolts to bolt the Z ball nut block in place.





You will also need to make holes in the sheet metal for the Z Motor Mount



When you put the Z motor mount on,  
you can make any adjustments  
through the hole where the other  
handle was.



Attach the coupling to the motor. Then drop the motor in. You can tighten down the coupling from this side hole



Put the cap on to cover the hole where the Z axis handle was.



# Re attach the way covers



# Now you are in business!



# You can work on the electronics

