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The Ultimate Energy Freedom System

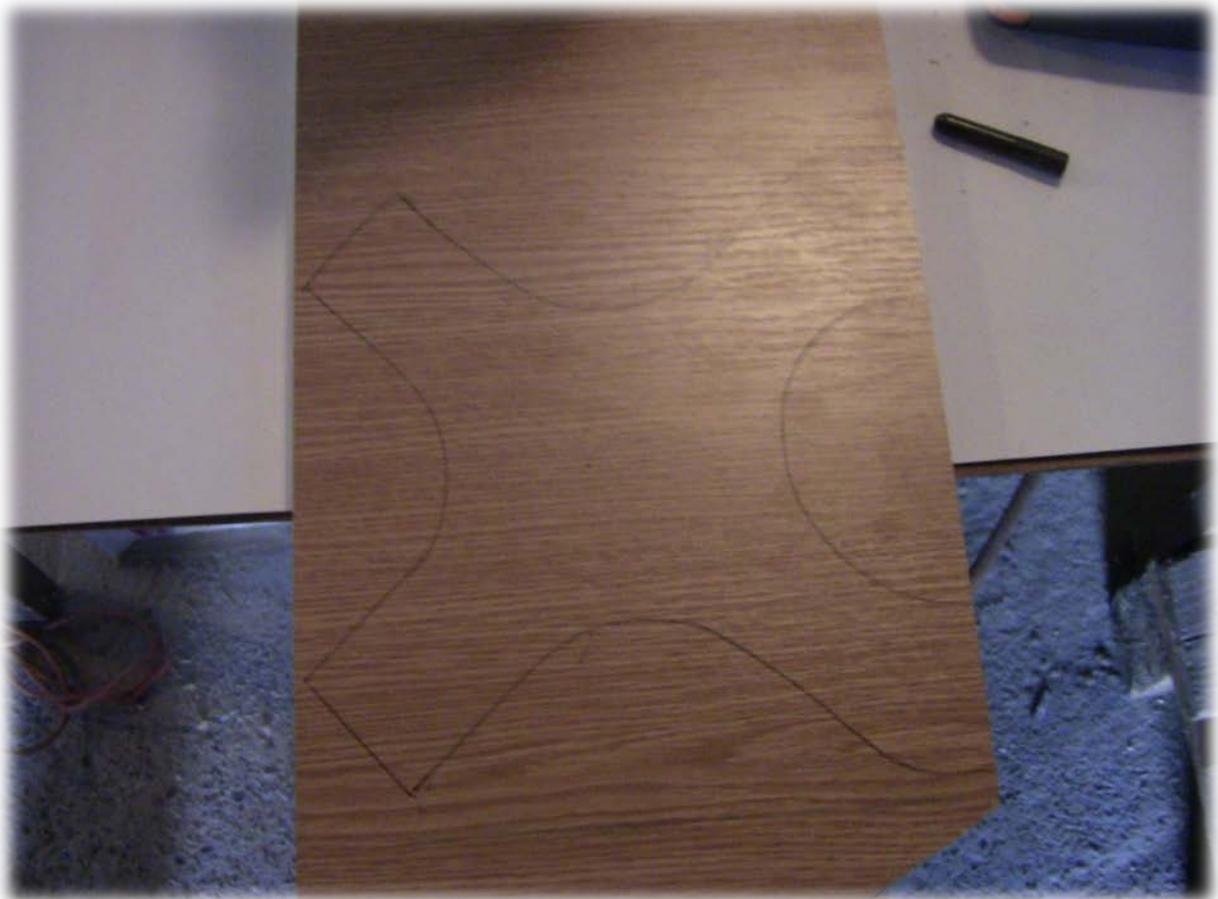
Fabrication & Assembly

The Front Support

You can make the supports from whatever material you consider and you can easily find.

For this version of the Ultimate Energy Freedom System we have used laminated chipboard or melamine because it's easier to cut and drill.

Here's how to start:



Using the schematics/blueprints you can find in the “Schematics & Photos” document included in the Ultimate Energy Freedom Package, draw the shape of the FRONT SUPPORT on a piece of laminated chipboard. You should come up with something similar to the photo above.

NOTE: You can make the supports and the base of your system in any shape you like, but remember not to affect the functionality of the system, SO PLEASE BE CAREFUL.

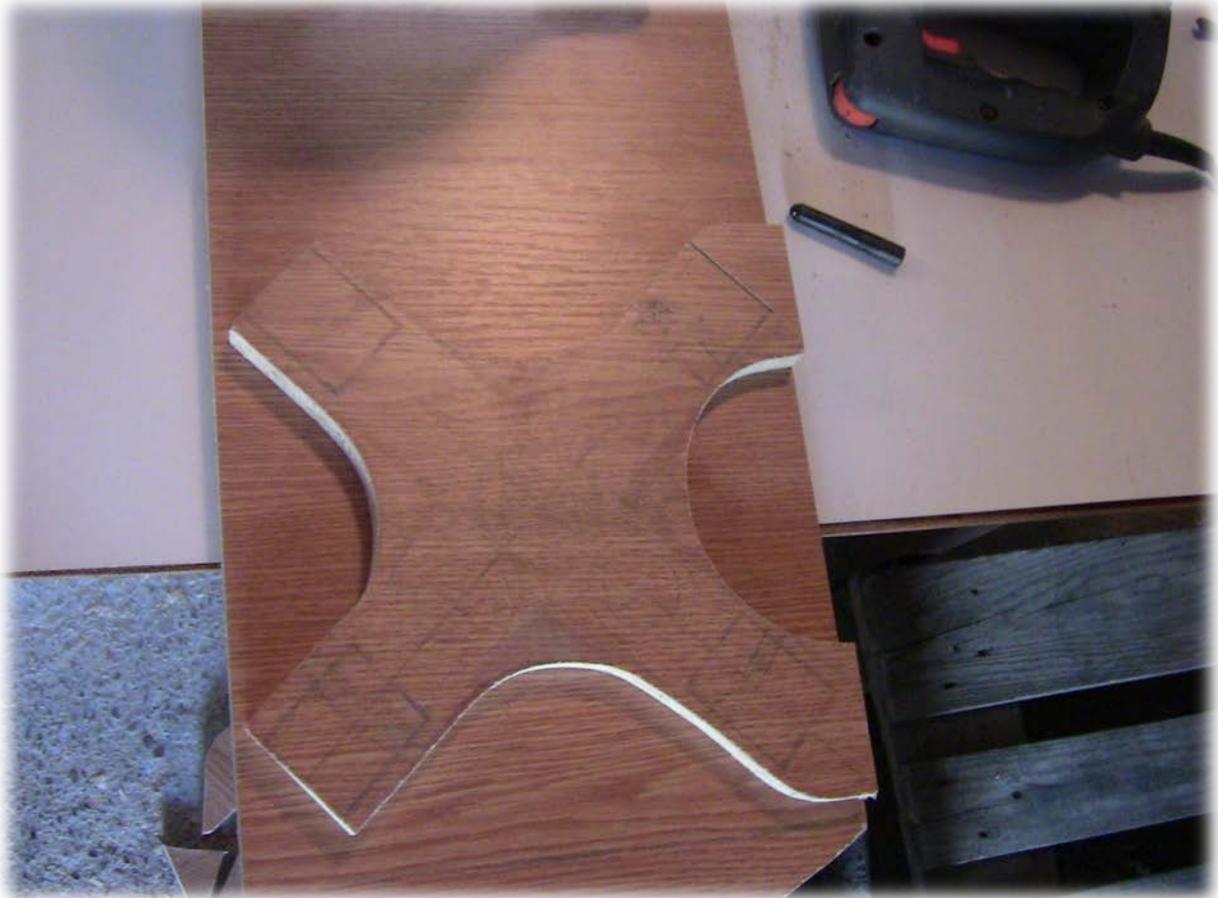
Next, using a jigsaw cut the FRONT SUPPORT from your piece of laminate chipboard. You can see how this is done in the VIDEOS included in The Ultimate Energy Freedom Package.

You should end up with a FRONT SUPPORT looking something like the one below.



The Back Support

For the BACK SUPPORT use the front support you just made to draw the shape onto another piece of laminated chipboard.



Use a jigsaw to cut out the BACK SUPPORT.

You should now have the front and back supports ready for the next step.



The Base

For the BASE of the system we have used the same material which is laminated chipboard or melamine. You can feel free and use whatever material you like.

Use the schematics/blueprints included in the package to draw the shape of the BASE on a piece of laminated chipboard.

Use a jigsaw to cut out the BASE.

You should end up with something like this:



Preparing The Supports

Next you'll need to prepare the supports.

First you need to drill the bearing holes. In order to do that you should use a 1 3/16" milling drill bit.



OPTIONAL you can first use a small spiral drill bit to drill a "guide hole".

NOTE: Don't drill the hole all the way through. Only drill a hole equal with the depth of your bearing.

We used 6200-2RS Bearing 10x30x9.



Next using the schematics/ blueprints included in the Ultimate Energy Freedom Package draw the 4 holes around the bearing.

These 4 holes are OPTIONAL. They don't play any role in the system. We have used them as "technological holes" for you to better see what is going on in the system.

Use the same 1-3/16" milling drill bit.



Here are the two finished support plates with the bearings mounted:



The Flywheel

For the FLYWHEEL you can use a light weight wood such as linden wood or anything similar. For this version of the project we have used a cork like material which is very light.

If you don't find a circular shaped material you must cut it yourself using a jigsaw.

First off you need to drill the center hole for the main axle.

Use a $25/64$ " drill bit.

Also try to eliminate as much weight from the FLYWHEEL as you can.

You should end up with something like this:

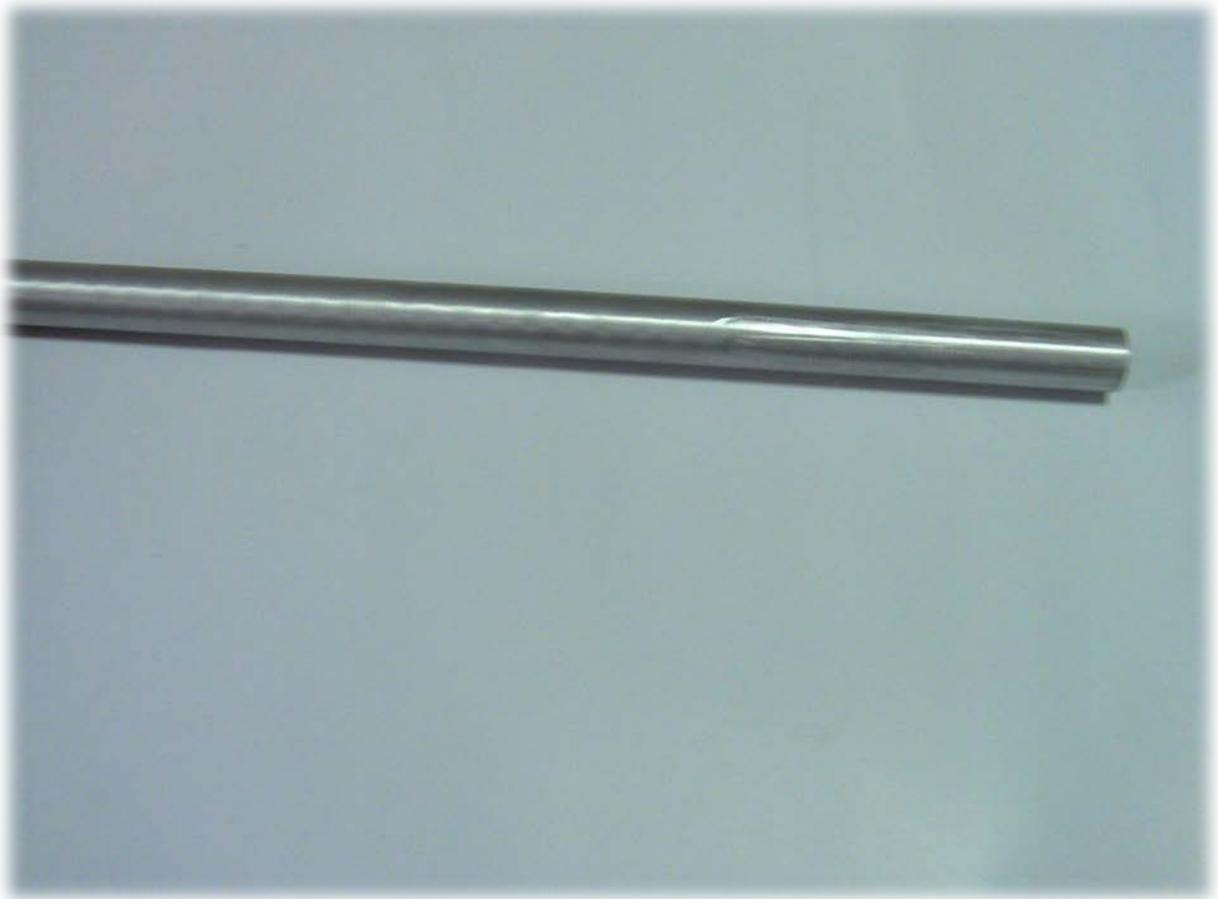


The Pistons

For this design of the Ultimate Energy Freedom System you will need 4 PISTONS.

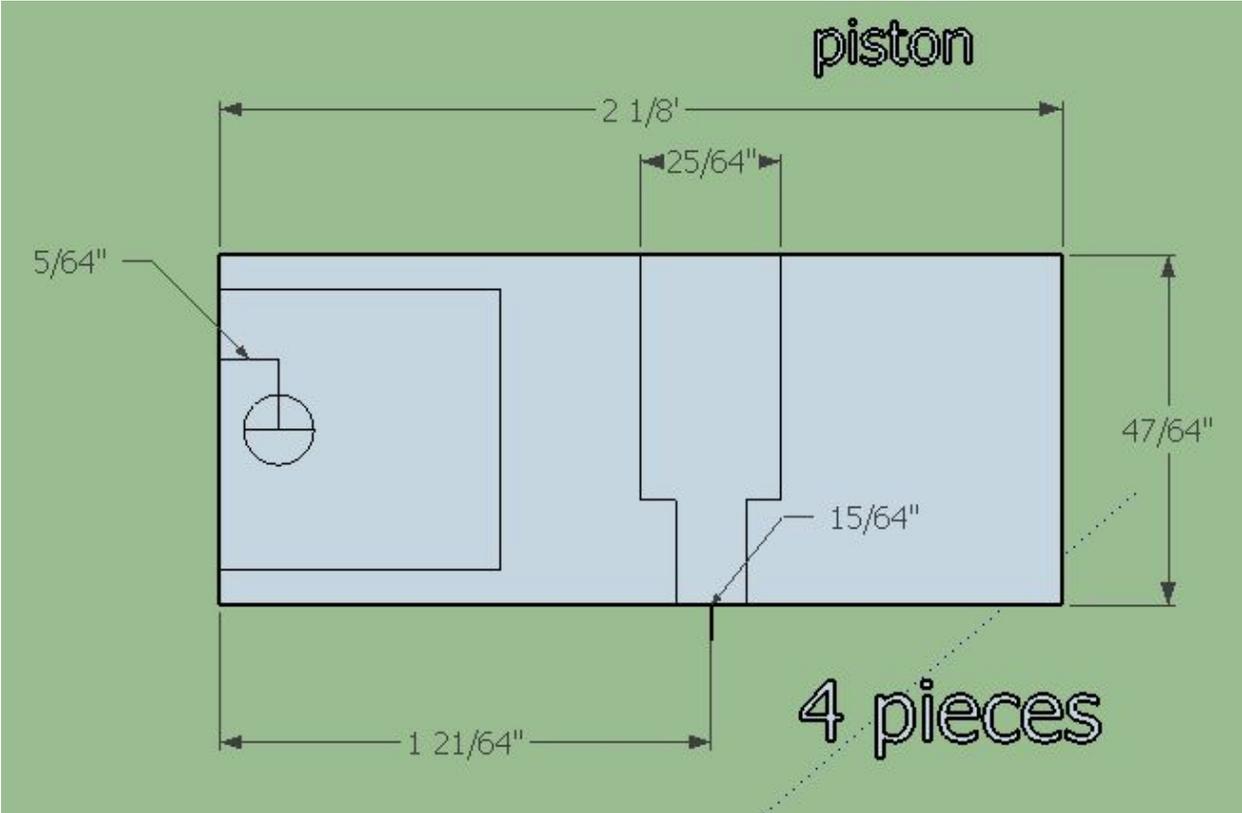
We have used an aluminum bar because it's lightweight and strong enough to support the pressure, also it's easier to cut and drill.

Cut 4 pieces 2-1/8" long from a 47/64" diameter aluminum bar.



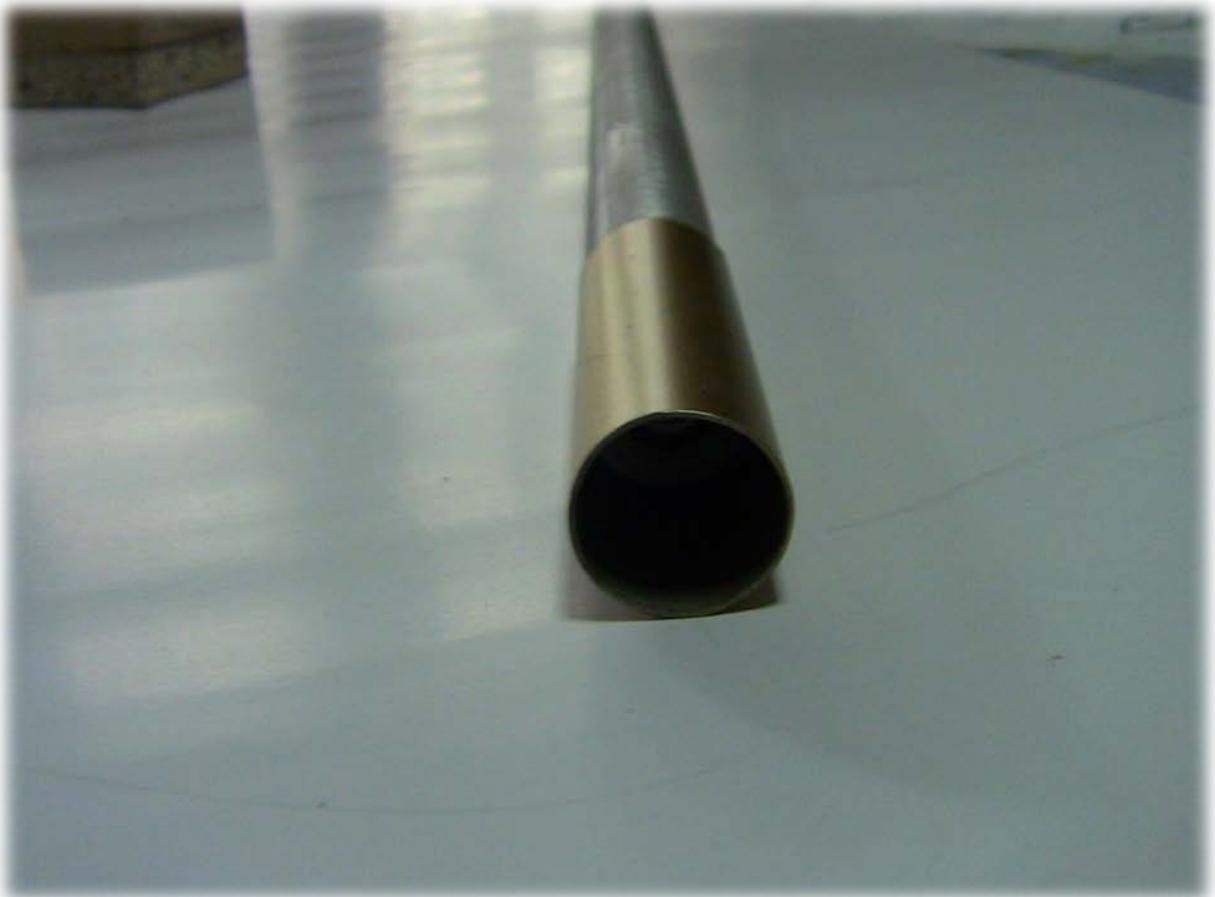


Next use different drill bits according to the schematics/blueprints included to drill the specific holes of the pistons.



The Piston Cylinders

For the piston cylinders you'll need 4 pieces of 2-1/8" brass tubing 25/32" in diameter.

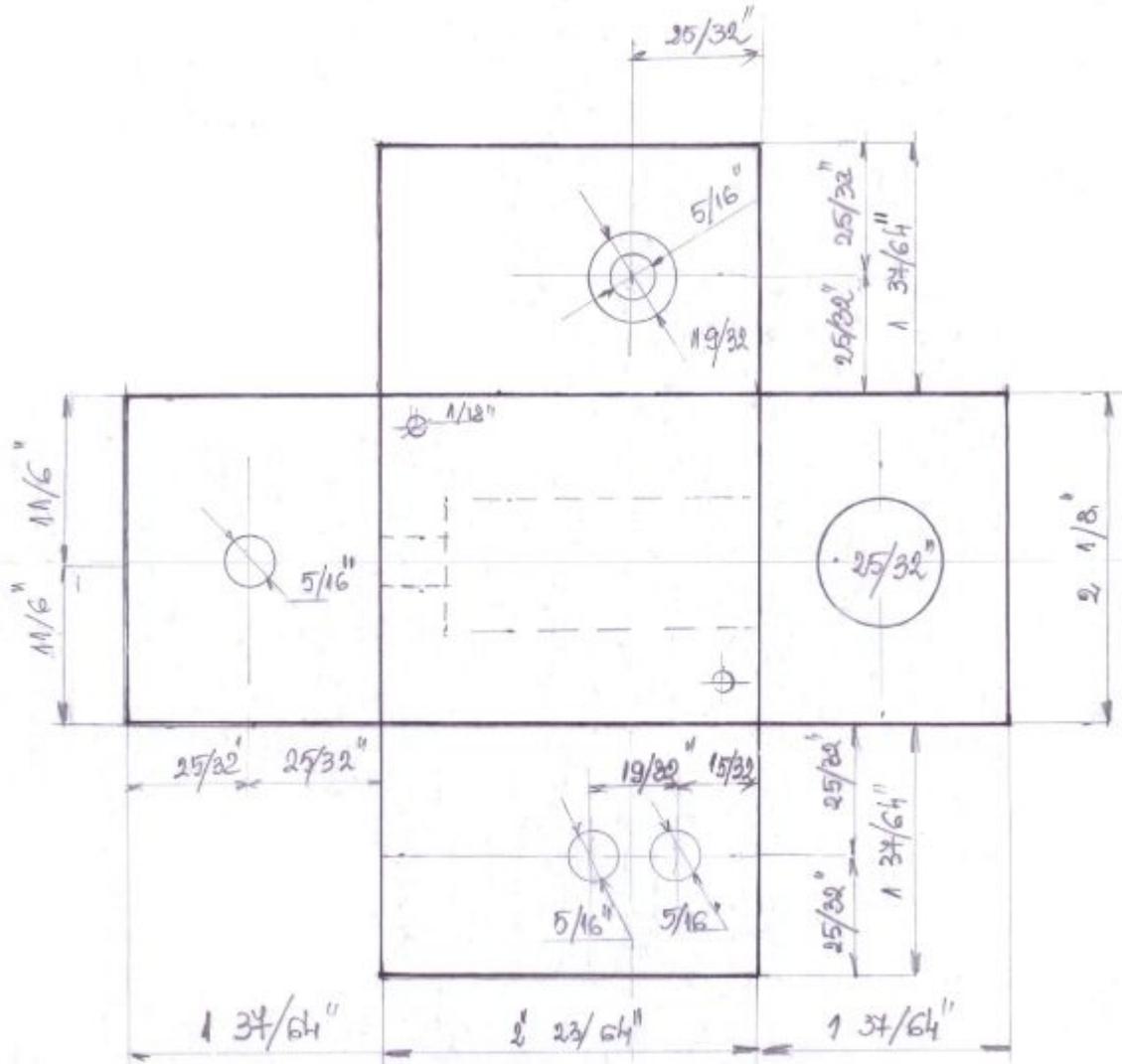


These will fit inside your piston cylinder housing.

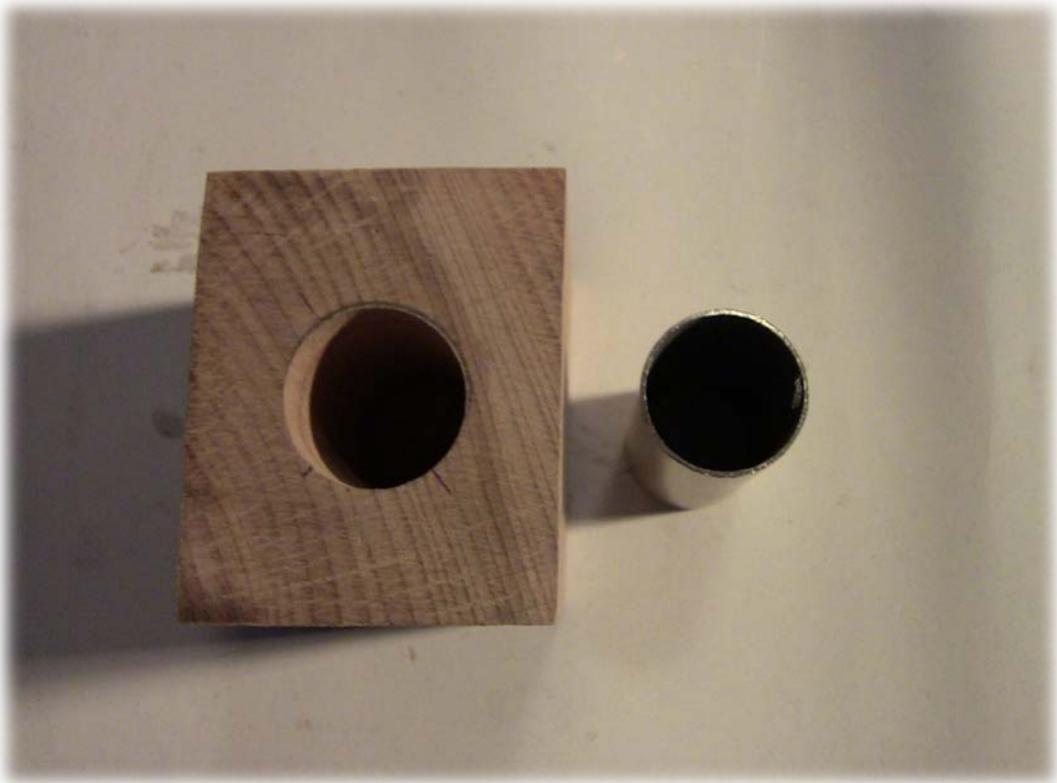
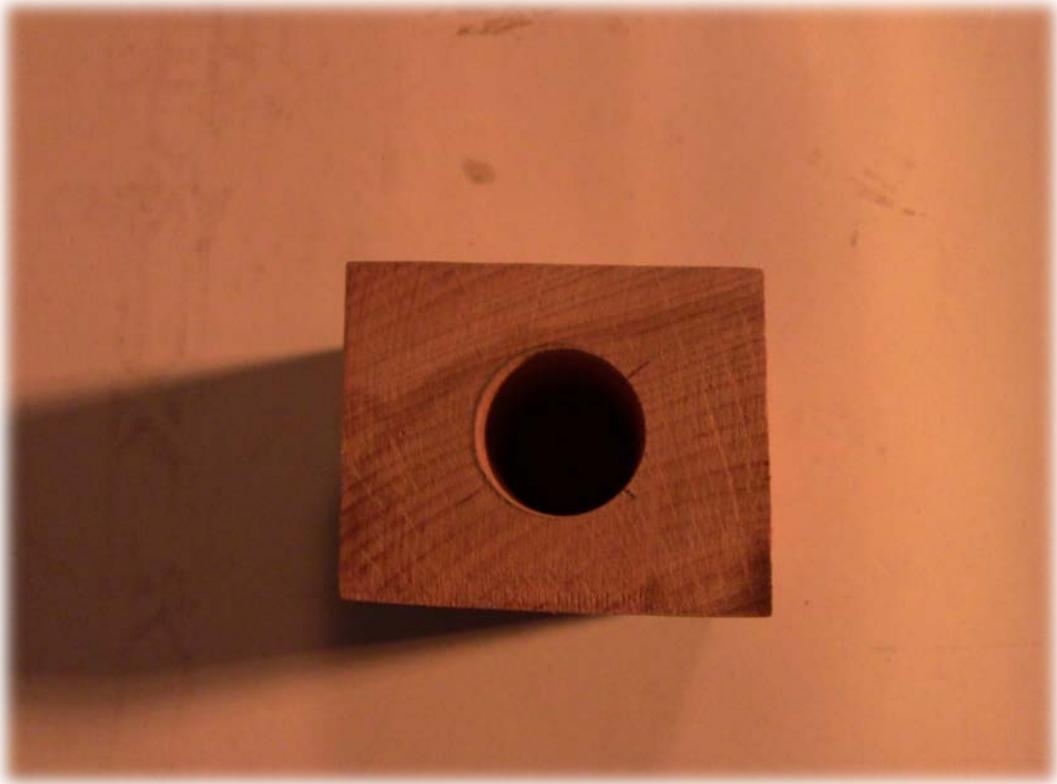
For the piston cylinder housing you should use a hard density material able to support high pressures. You could use whatever you can find such as high-density plastic/acryl or even wood.

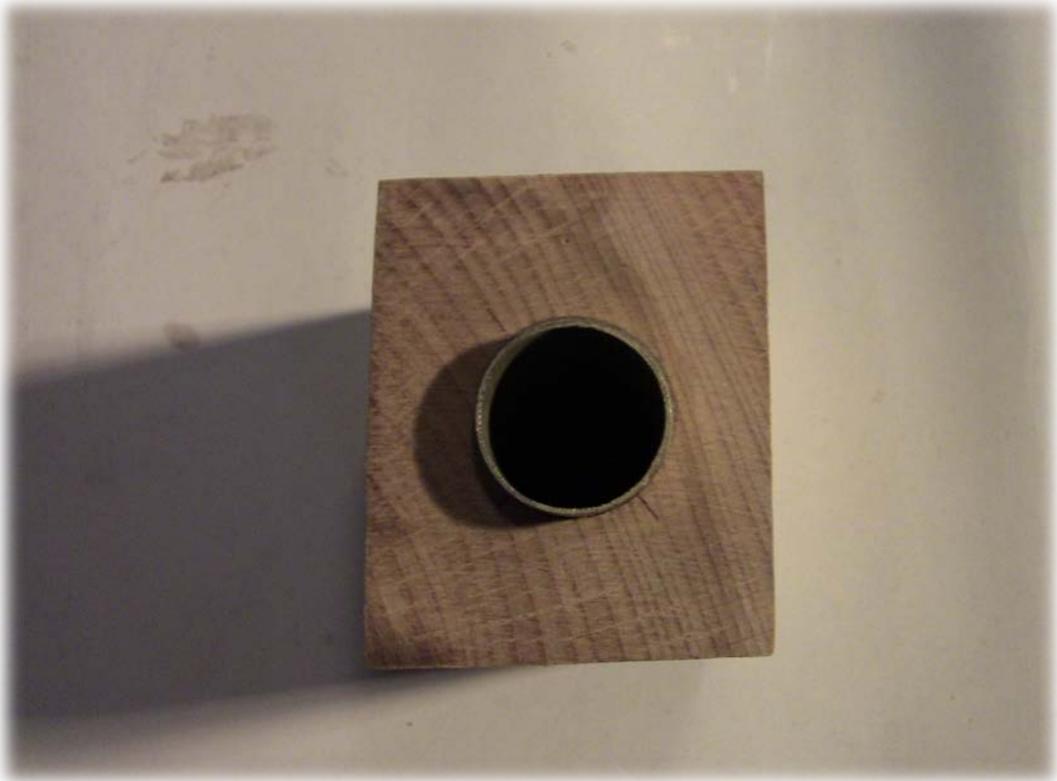


First you need to drill the $25/32$ " holes for the pistons(left).

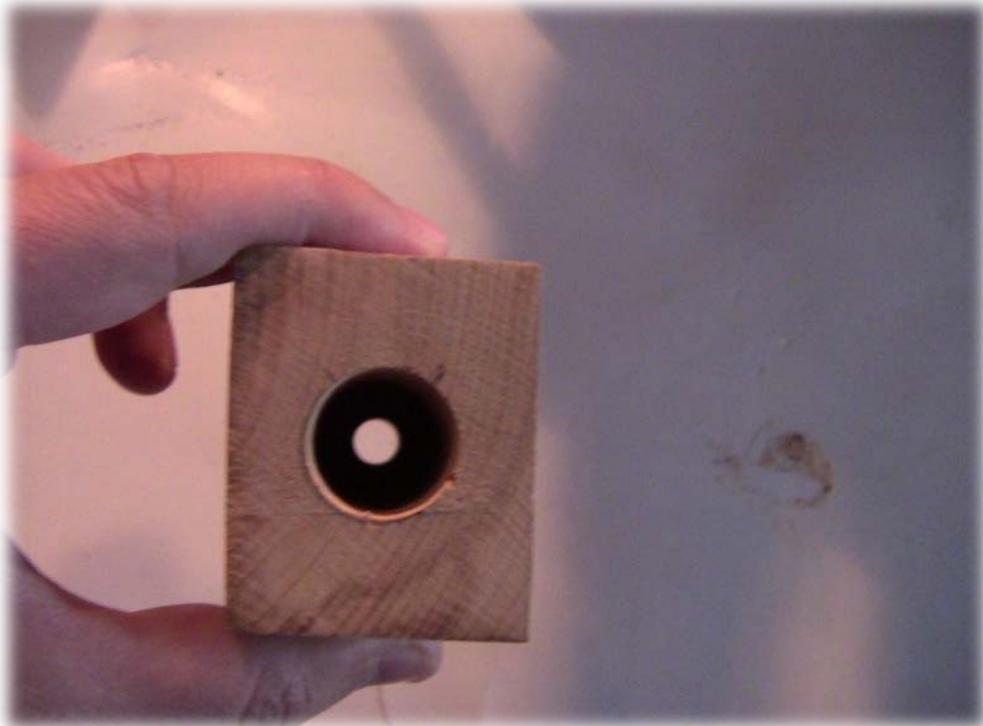
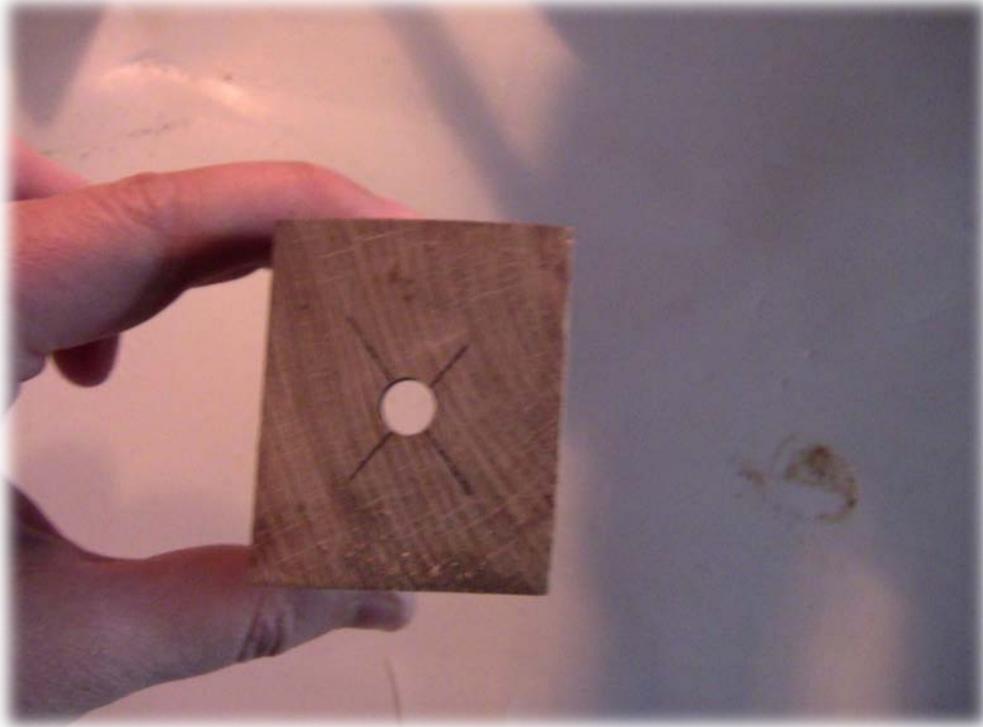


4 pieces





Next you need to drill the 5/16" intake hole on the opposite side of the piston cylinder.



Next drill the additional holes according to the schematics and blueprints.

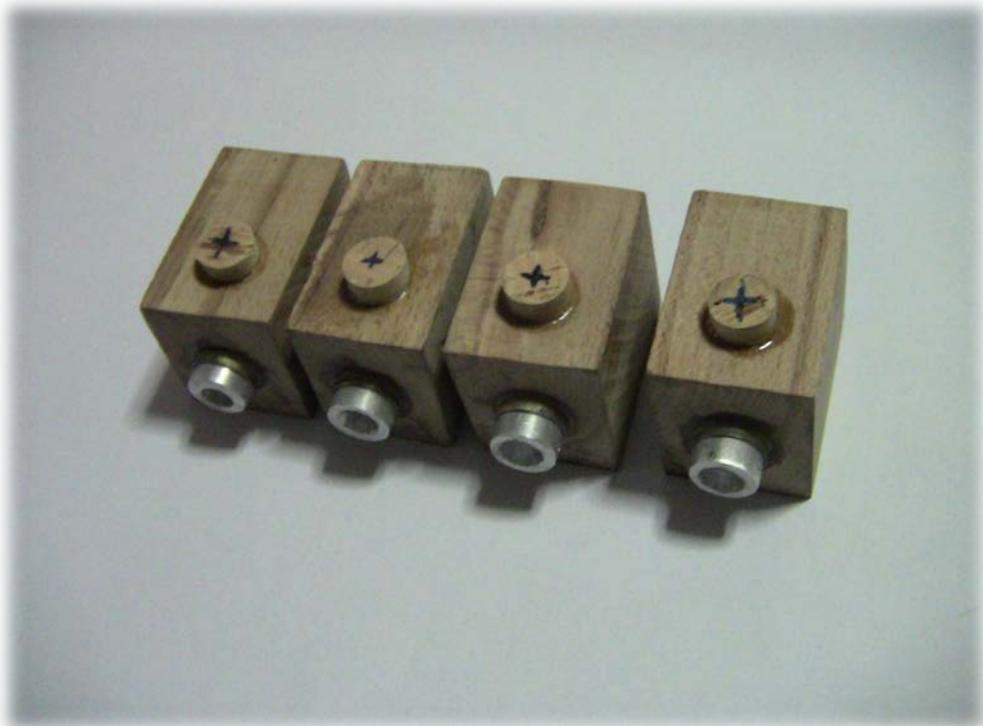
First, you will need to drill 2x 5/16" holes in the top part of you piston cylinder.



After that you will need to drill a 19/32" hole in the bottom of your piston cylinder housing.



Next, use a 19/32" stopper and glue it in the 19/32" hole you just drilled.



You will need to drill a 5/16" hole right through the middle of the stopper you just glued in.

Here's how it should look:



Next you will need to cut 16 equal pieces of 5/16" aluminum tubing.

You can use whatever material you may have lying around such as brass.

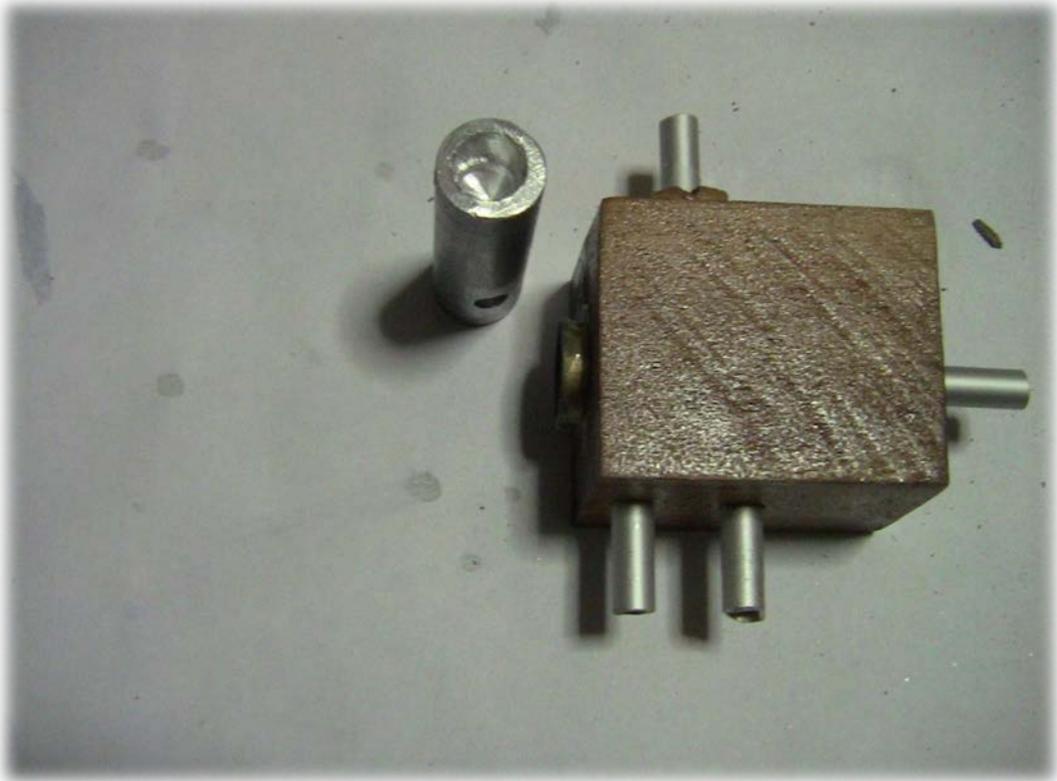


You will need 4 pieces of aluminum tubing for each piston cylinder housing.

Insert the 4 pieces of aluminum tubing in the $5/16$ " holes of the piston cylinder housing and glue them in place.

Make sure that no glue get's inside the piston cylinder.

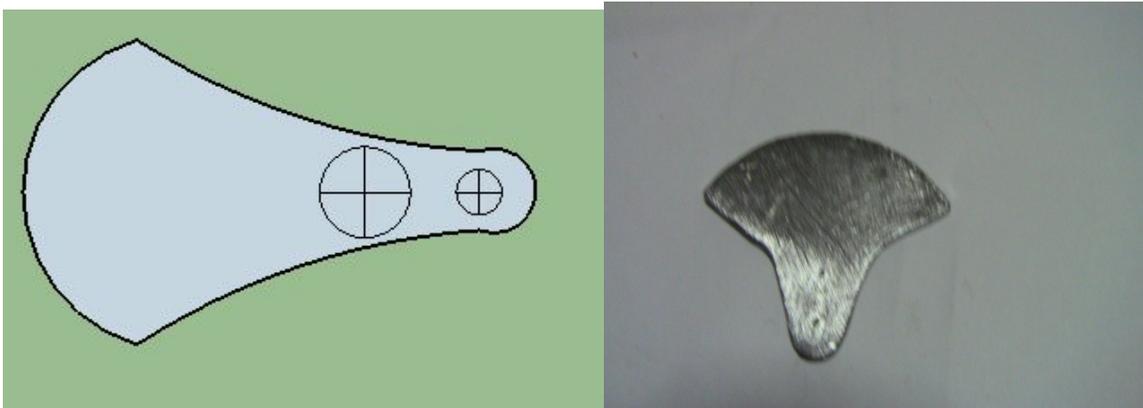
Here's how the finished piston cylinder should look like:



The Axle & Counterweight

For the axle we have used a $25/64$ " diam. piece of aluminum tubing.

For the counterweight we have cut a piece of lead into the desired shape.



Drill a $25/64$ " hole in the counterweight.

Now glue the main axle to the counterweight.

You should end up with something like this:



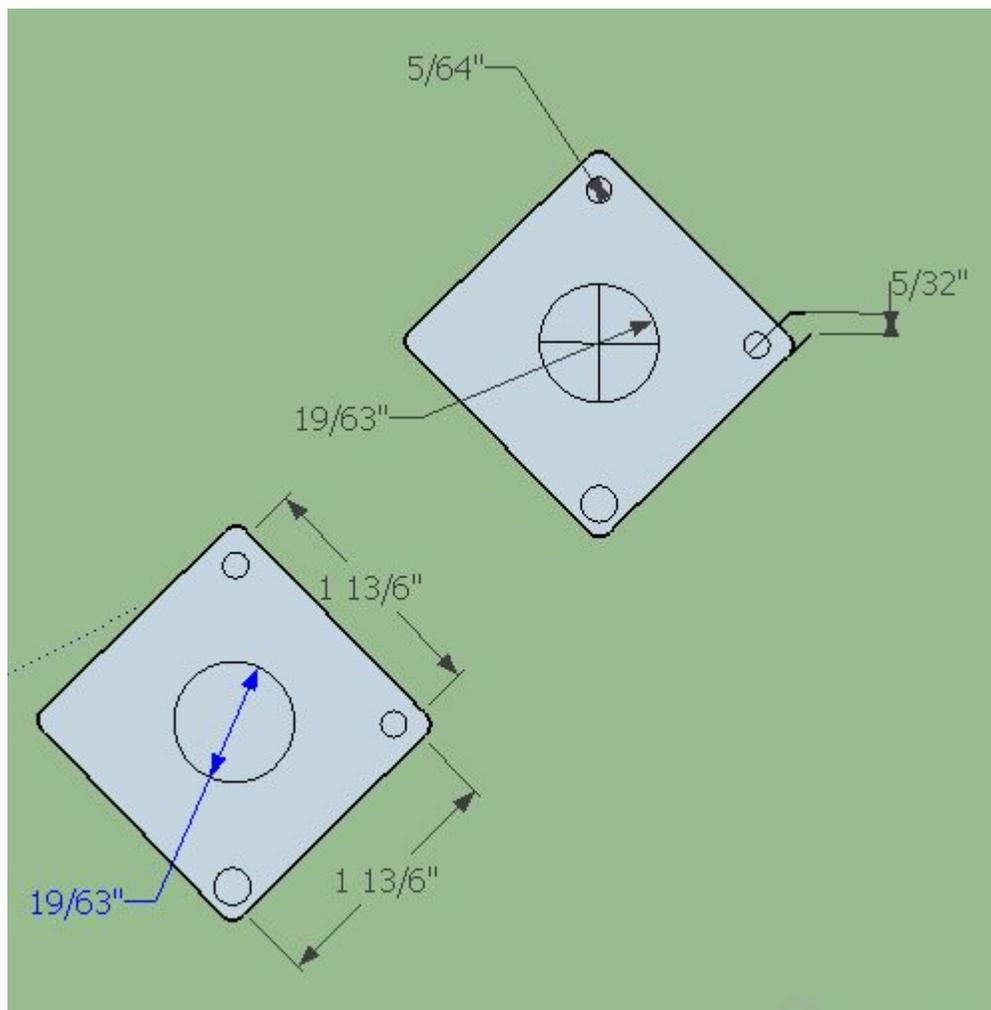
Next up are the connecting rods and the linking mechanism.

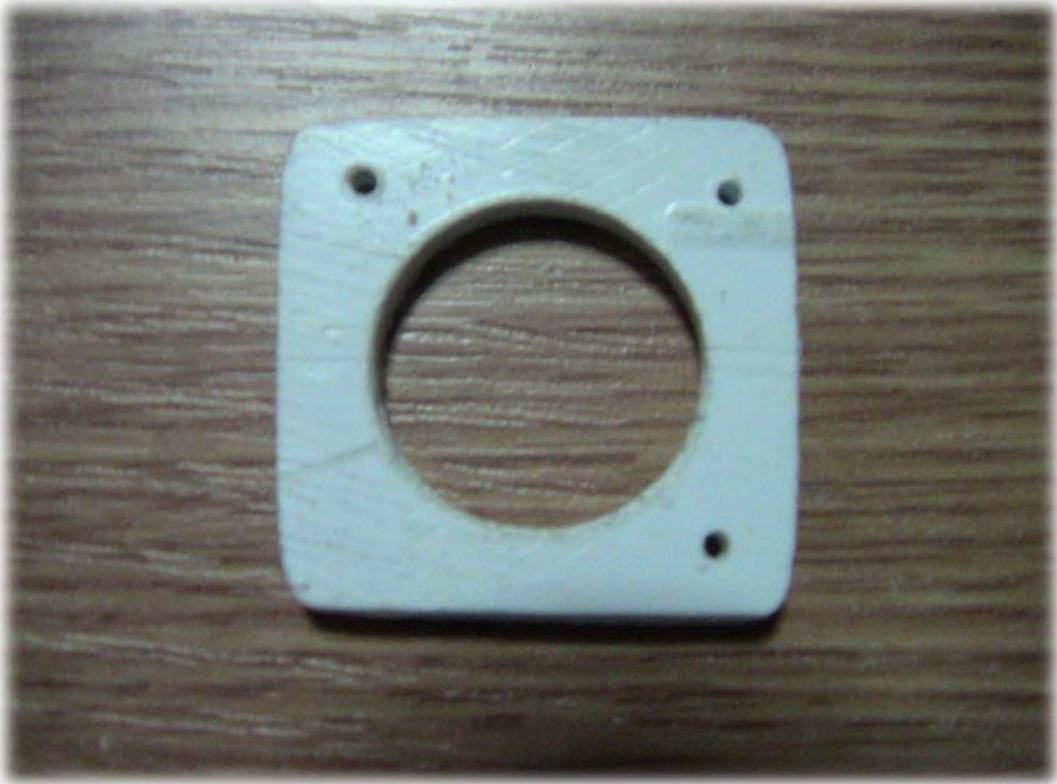
You need to start by creating the center piece.

This is made from two equal $1\frac{13}{6}$ " square parts with a $\frac{19}{63}$ " hole in the middle.

You will also need to drill 3x $\frac{5}{64}$ " mounting holes in the square linking parts.

For this you'll need a hard plastic or similar material.



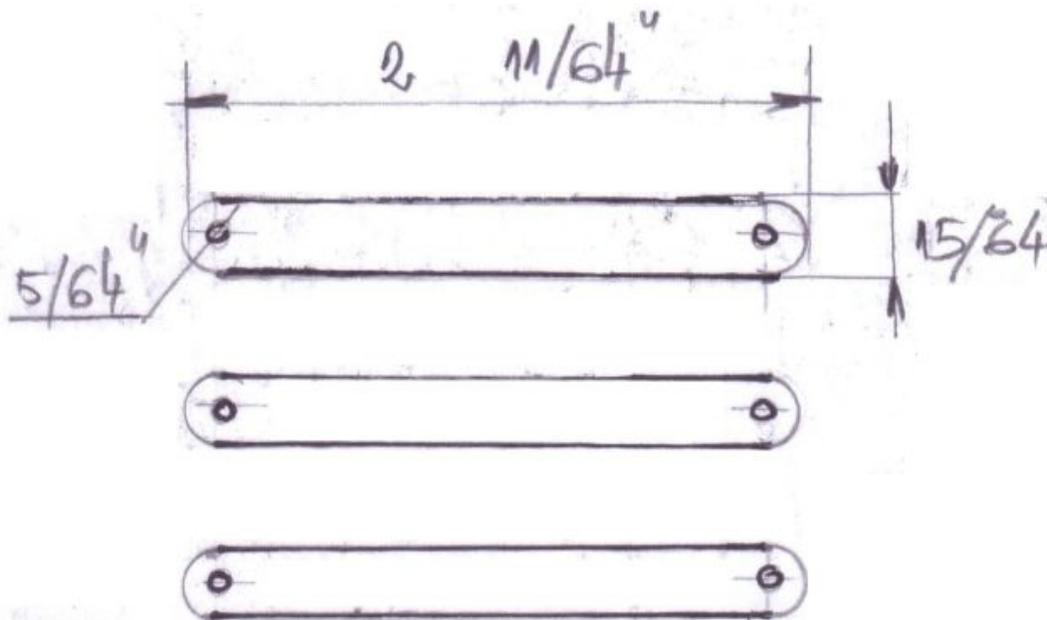
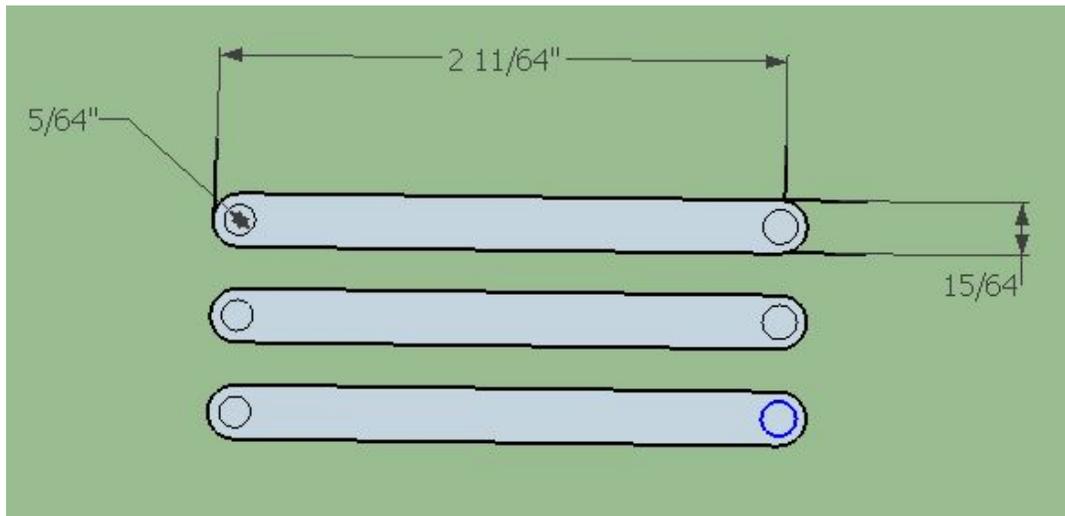


Then you'll need to make the 4 linking arms.

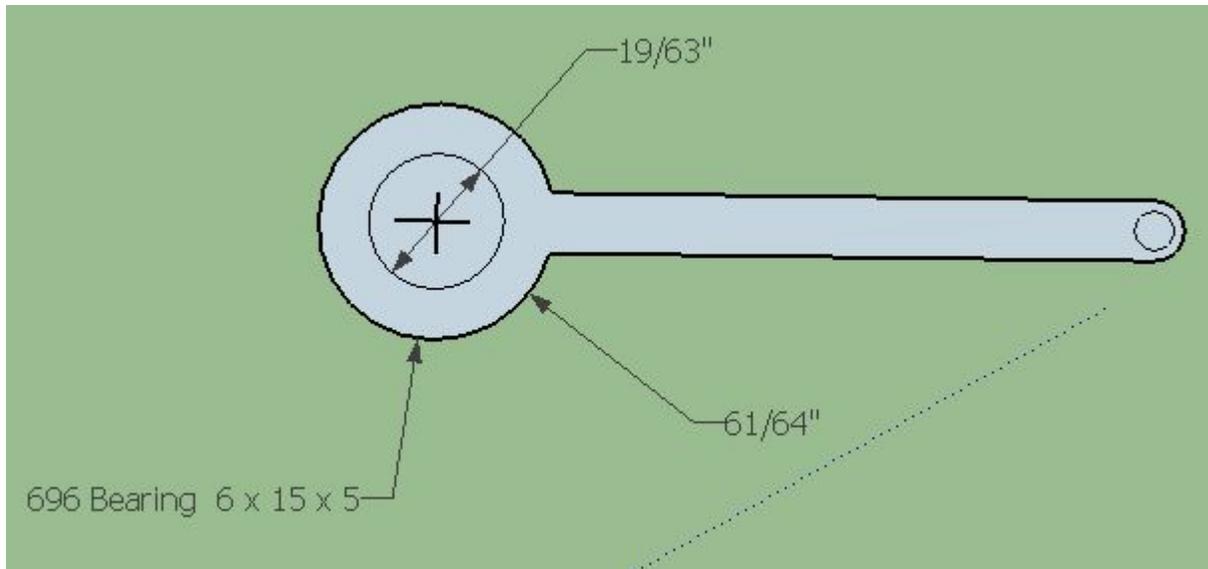
We have made them from the same hard plastic we did the square linking parts.

You'll need to make 3 identical linking arms.

Use the dimensions below:



You will also need to make 1 more linking arm that will hold the 696 2RS Bearing 6x15x5



Next you'll need to connect the central linking mechanism together using bolts or small pieces of steel wire.



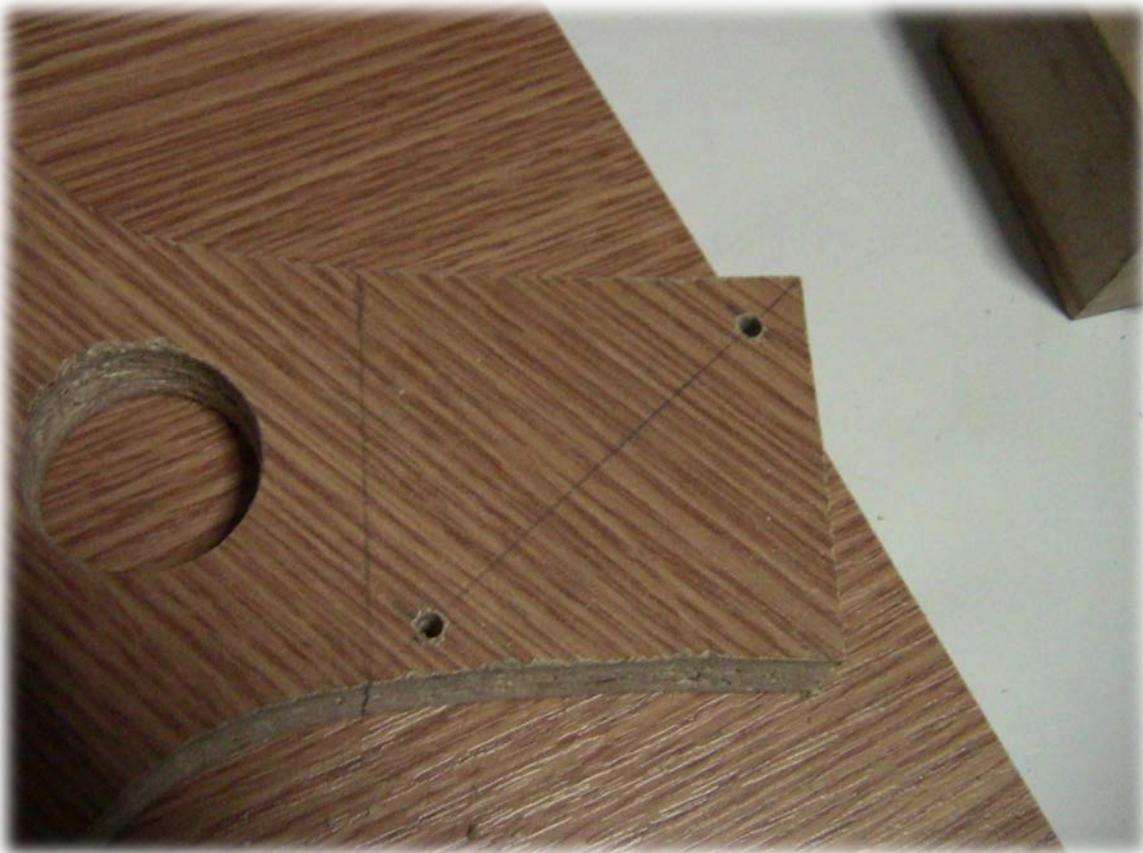
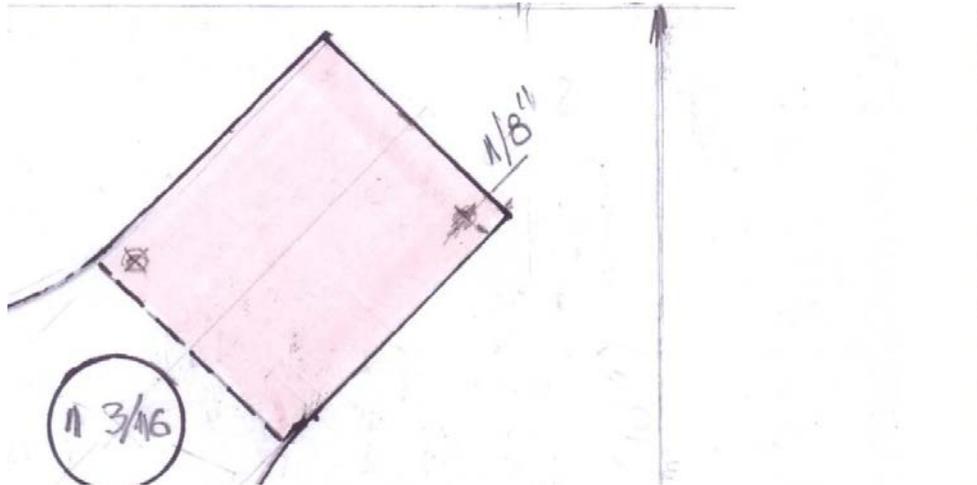
Continue by inserting and gluing the 696 bearing inside the square linking mechanism.

Then connect the square linking mechanism to the axle and counterweight by gluing another piece of steel shaft to the second hole of the counterweight and connecting it to the bearing.



Assembly

Start the assembly of the system by drilling two 1/8" holes for each of the 4 piston cylinder housing in the front support.

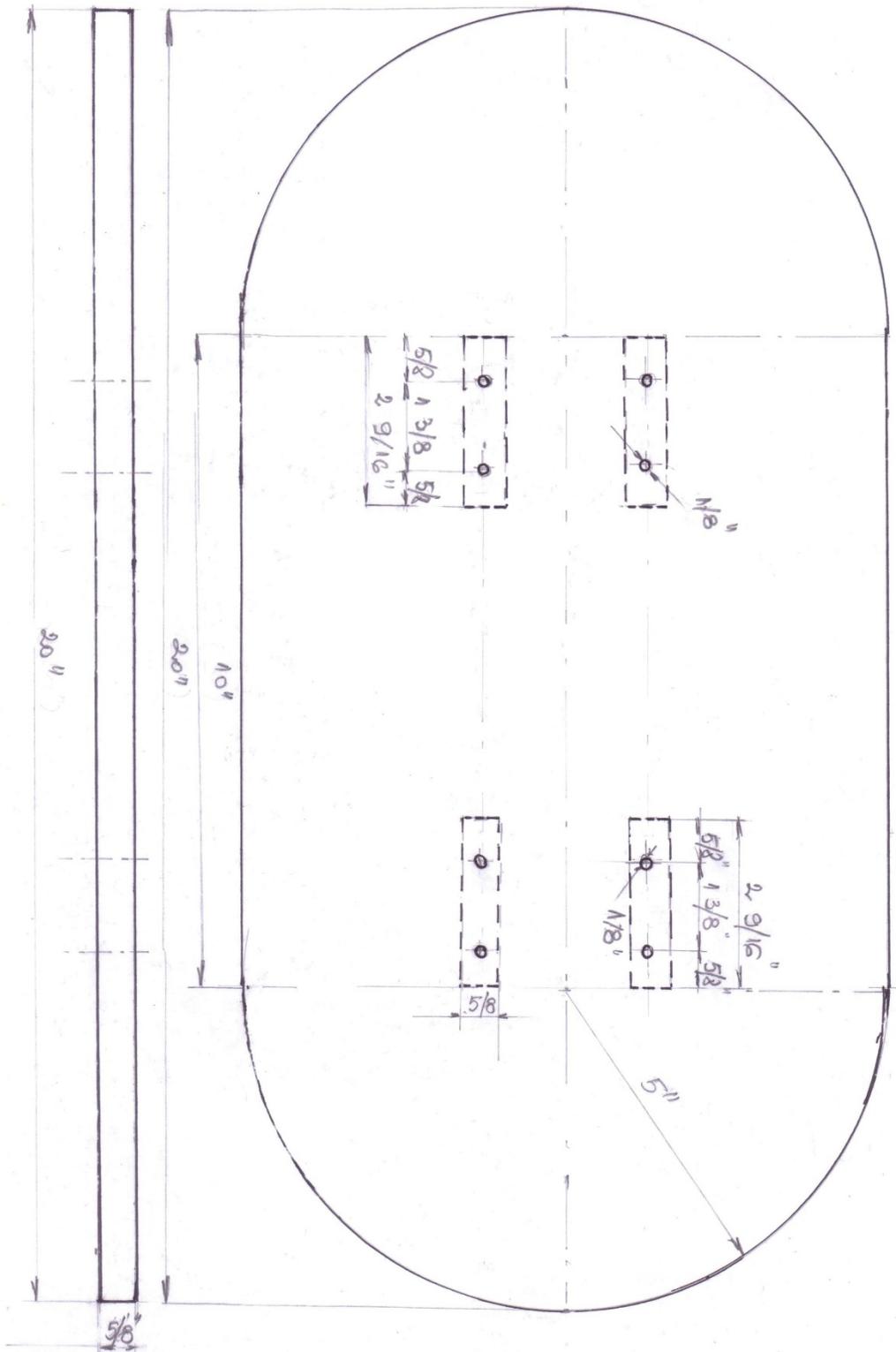


Now connect the 4 piston cylinder housings to the front support with the pistons facing inwards. To do this operation use techs crews.



Now you need to fix the two supports to the base plate.

To do this you must first drill 1/8" holes in both the base and the supports.





Fix the two supports to the base plate using tech screws.

Here what you should have so far:

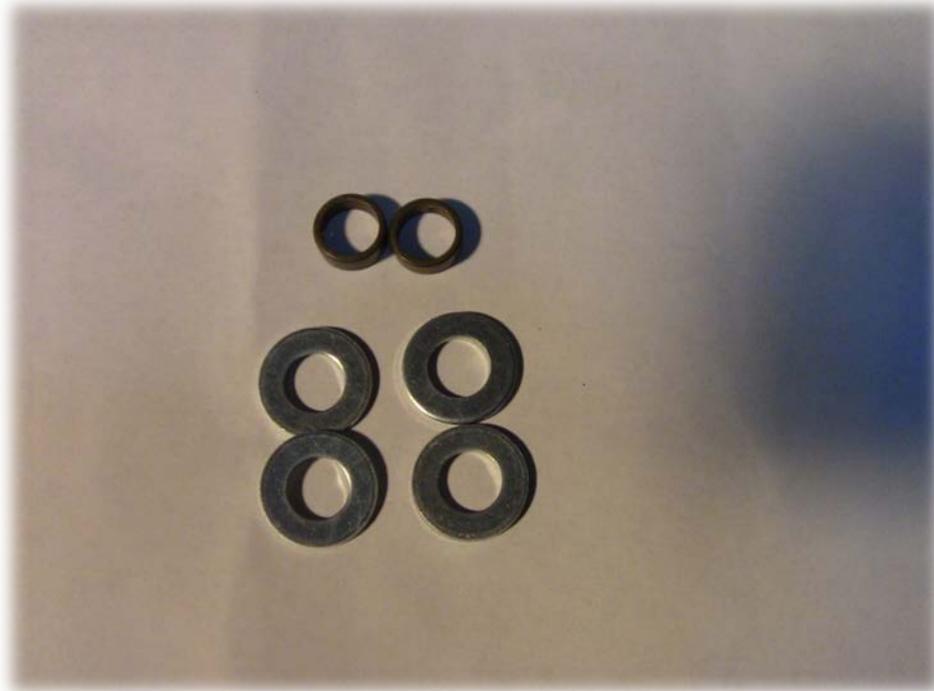


Now you should connect the axle & counterweight along with the linking mechanism to the system.

Simply insert the main axle through the front bearing.

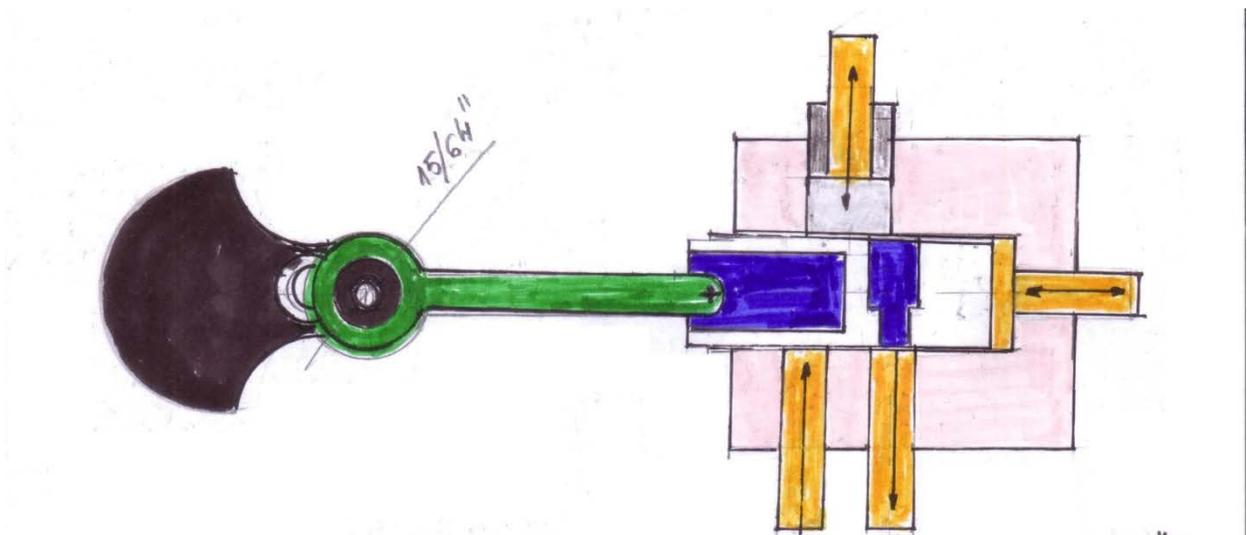
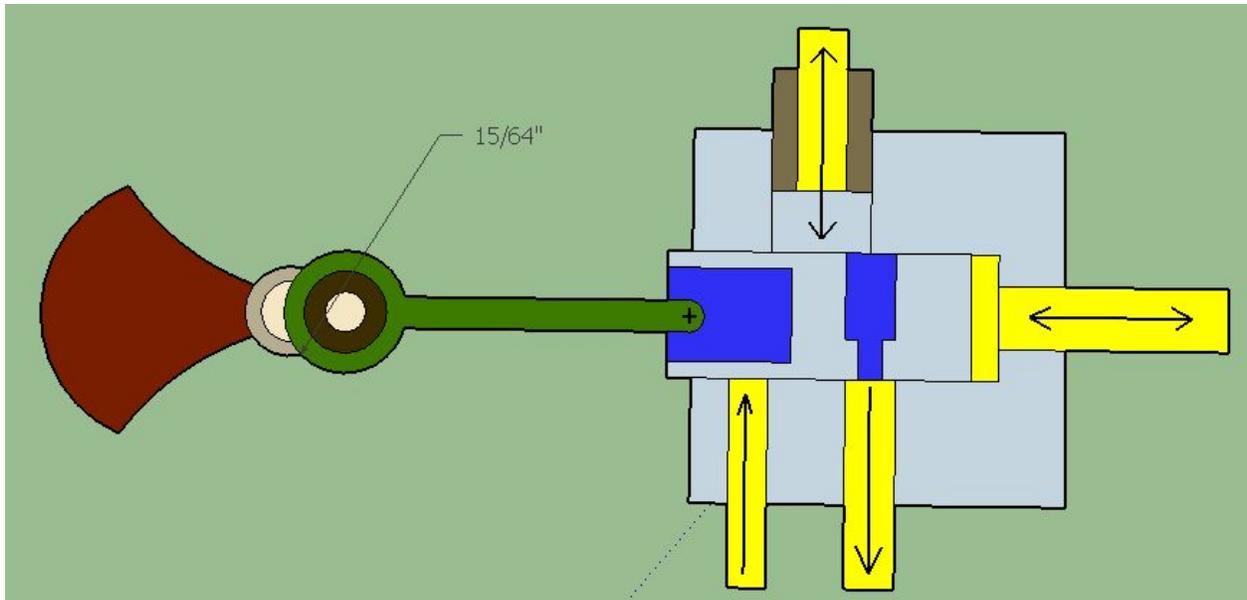
Next you should insert the axle through the flywheel and then through the back bearing.

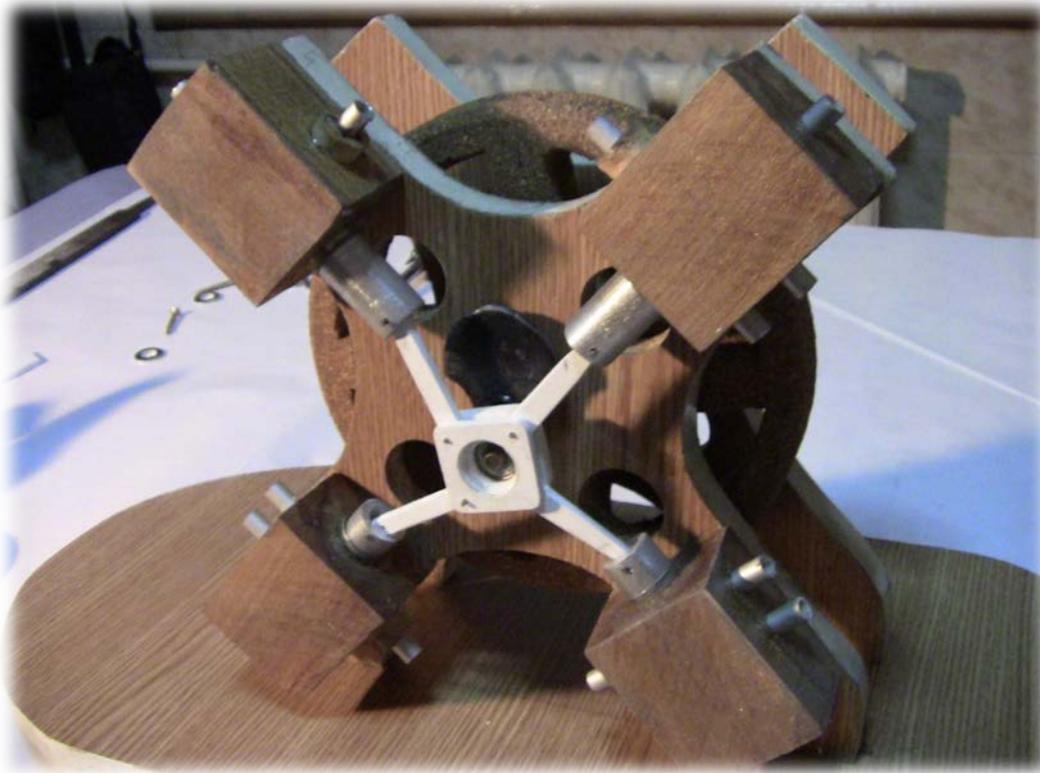
NOTE: For better fixing of the flywheel you can use some brass spacers.



You will now need to attach the 4 connecting rods to the pistons.
In order to do that you should use small bolts or cut some steel wire.

Here is how the main piston rod should be connected:



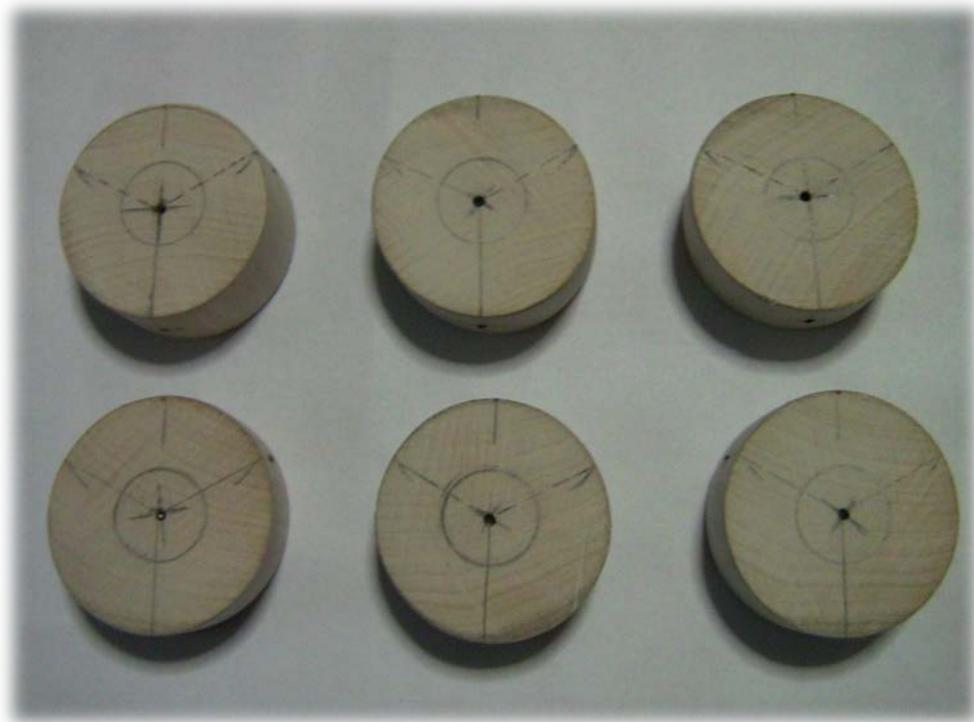
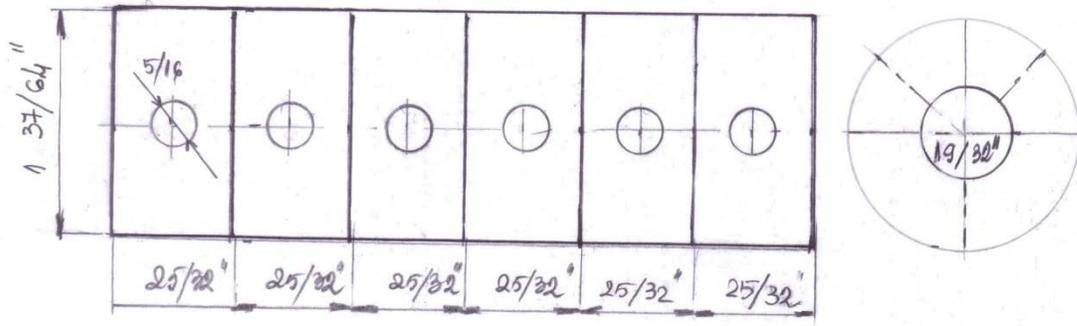


The Splitters

For The Ultimate Energy Freedom System to work you will also need some air/steam splitters.

We have used the same treated high density wood we used for the piston cylinder housing. You can use whatever material you have lying around.

You need 6 round splitters with a diameter of $37/64$ ".



You will need to drill $3 \times \frac{5}{16}$ " holes in each splitter. The holes need to be 120° apart.

You will also need to drill/mill a $\frac{19}{32}$ " hole in the middle of each splitter.

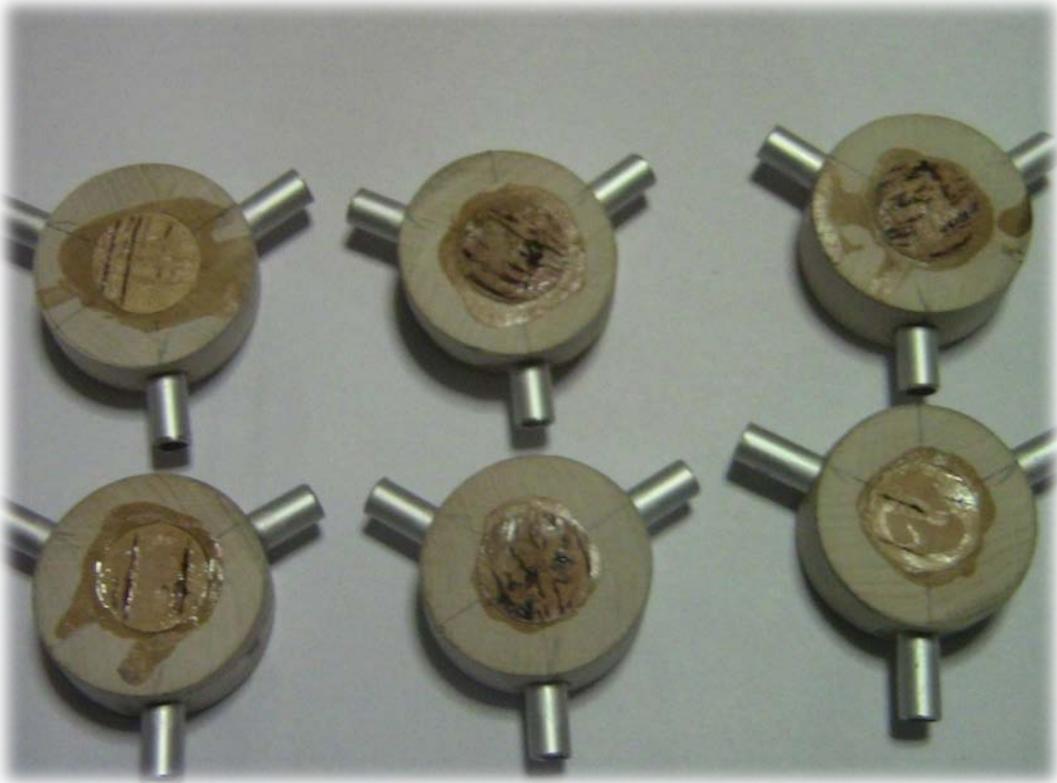


Next you'll need to glue a wooden/cork stopper half way through the center hole of each splitter.



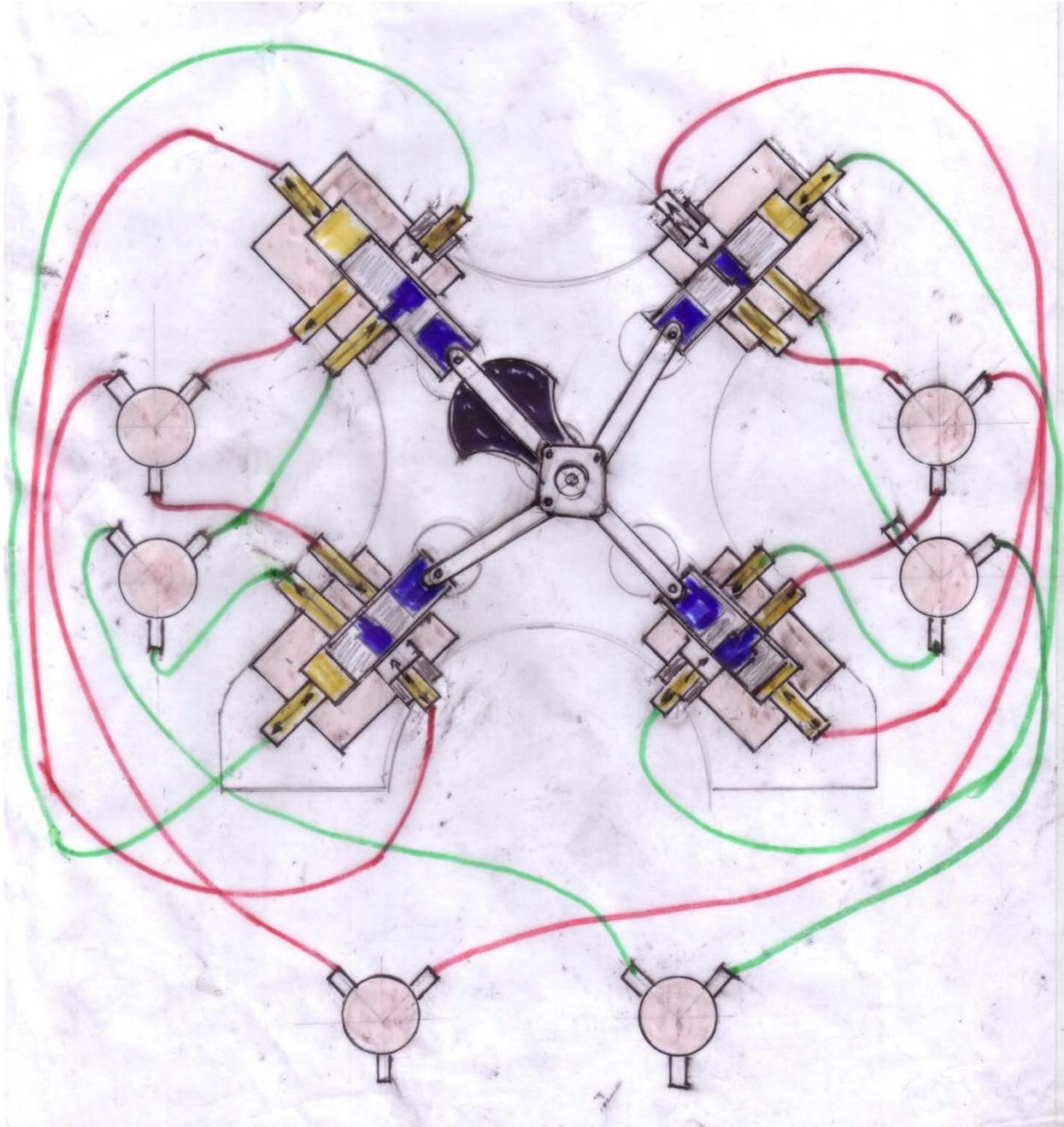
Then you'll need to insert 3 aluminum tubing rods in each splitter and glue them in place.

You should end up with something like this:



Final Connections

Use the drawing below for the final connections. Use 5/16" diam. flexible plastic tubing.





Congratulations! Your Ultimate Energy
Freedom System Is Finished!

