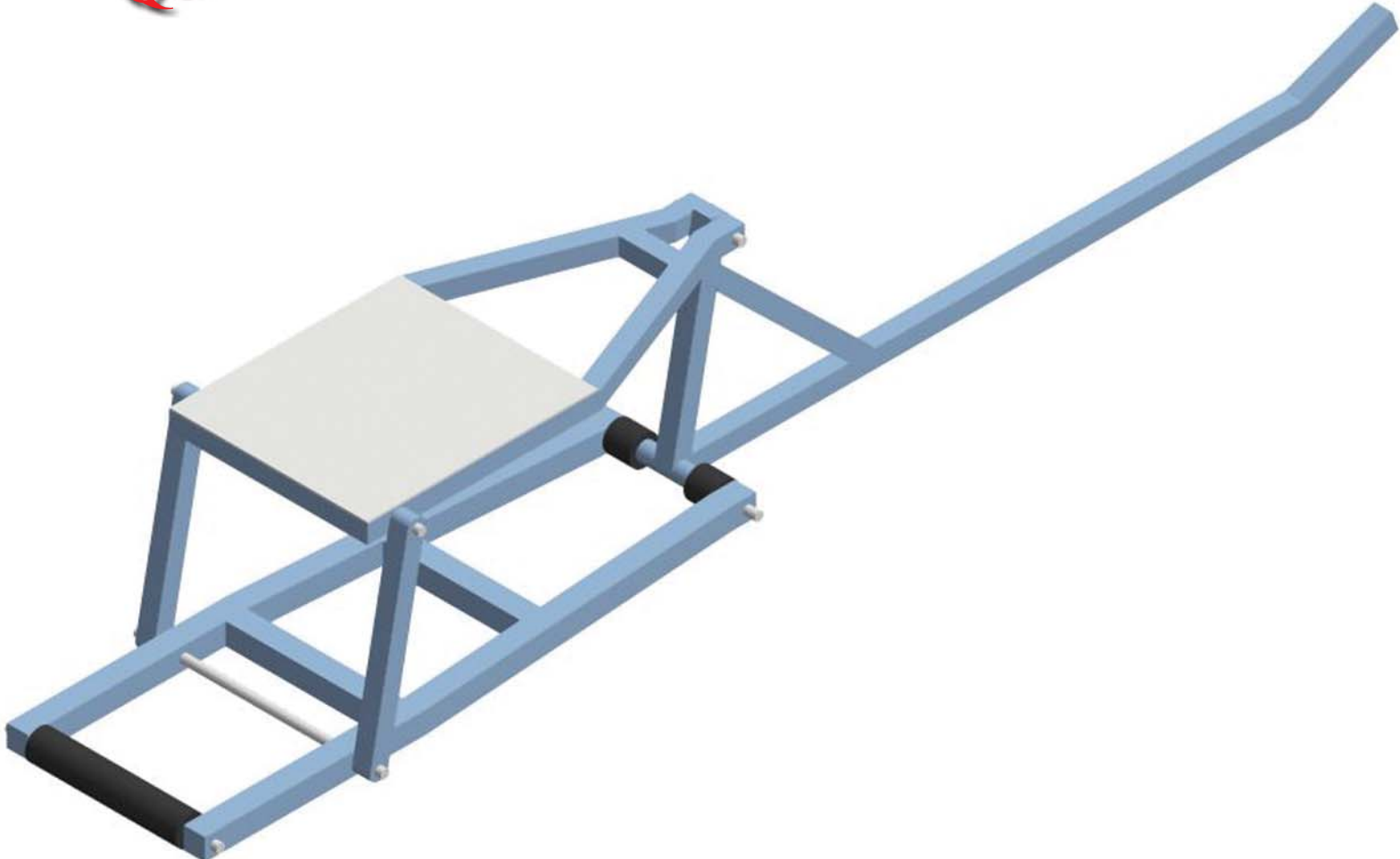


Spidercarts

Quick-Jack



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	Quick-Jack					

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Thank you and welcome to your new Quick-Jack Plans.

As you can see these plans are easy, fun and full of great information to walk you through completing your Quick-Jack.

Tools section will just give you brief overview of tools you could use to build the Recluse. Of course use what you have or find fits your needs.

Materials section will give you a shopping list for the raw metal you will need to finish your kart.

The rest of the pages will just walk you through the parts needed and angles to cut as you go through the build of your Quick-Jack.

Well that's it for now! Have fun and be careful.

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	Introduction					

Here is a list of tools that we would suggest for this Quick-Jack.

This list is probably a minimum and any other tools that make your project building easier would be that much better.

- A truck or trailer. Even though we aren't building a go kart here, some of the pieces may be over 6 feet so it might be nice to have a truck to get it home.
- We are going to need to measure and mark this new metal, so a tape measure and some good soap stone or a silver sharpie will be needed.
- Cutting the metal can be done in a wide variety of ways. I would suggest a chop saw. They are not too expensive and very easy to use. Most of them have an angle guard so you can set it for different degrees when cutting.
- After cutting the metal there are usually very sharp edges. Now you can get a grinder and grind them all smooth or just be very careful with the cut metal till you weld it all together. The welding will melt the rough edges and you won't have to worry about them any longer. Your Choice!
- Some Vice grip clamps are handy to use as extra hands if you are tackling this project solo. Sometimes it's nice to have another hand.
- We must hook all this metal together somehow, so a welder is a must. Now using 14 gauge metal it doesn't have to be anything too big but more power is always better than not enough. If you don't weld or have a welder handy, you can always take it to your local welder and have him put it together for you. They might charge a bit but it's good work!
- Protective gear is a must! Get some good gloves. Get some good eye protection. Always think safety first. There is no fun in getting hurt.
- Well the rest of the tools should be hanging out around the shop or garage. Socket sets, hammers, pliers, drills and drill bits, wire brush, hand grinder and maybe some painting supplies. Well that should get us started. Let's get to work.

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	Tools				

Materials Needed

Below are the materials needed to complete all the cutting, fabrication and welding portions of building your new jack.

84 - Inches (7 feet) of 1 1/8" X 1 1/8" #14 gauge square tubing.

137 - Inches (about 11.5 feet) of 1" X 1" #14 gauge square tubing.

40 - Inches (3.33 feet) of 5/16" Steel Rod.

01 - 1-3 TL Bushing (1" Diameter, 3" Length with a 5/16" hole)

15 - Inches of 1 1/2" - 1 5/8" round nylon or teflon roller material with a 5-16" hole.

10 - Cotter Pins

20 - Flat Washers

01 - 12 5/8" x 10 7/8" Flat Diamond Plate

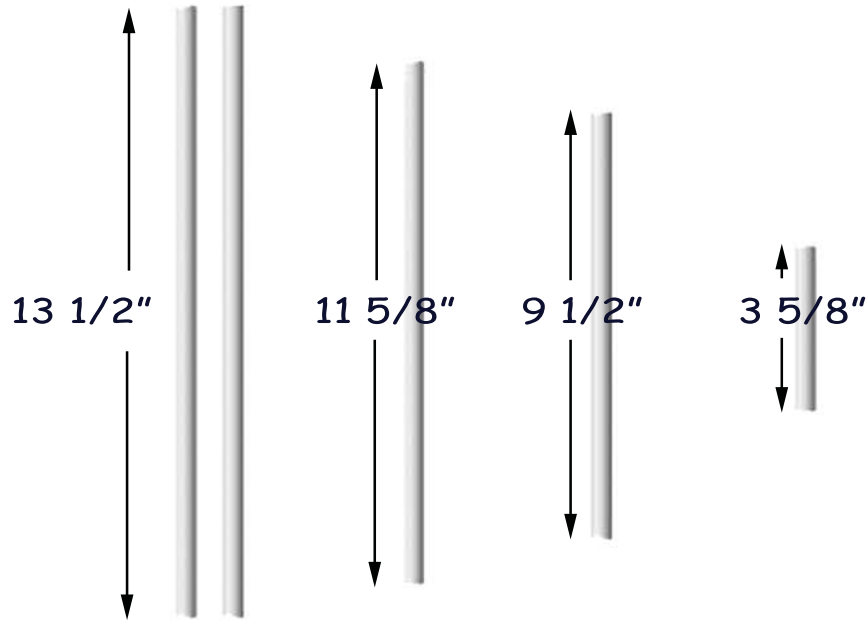
Rivets for the Diamond Plate

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	Materials				

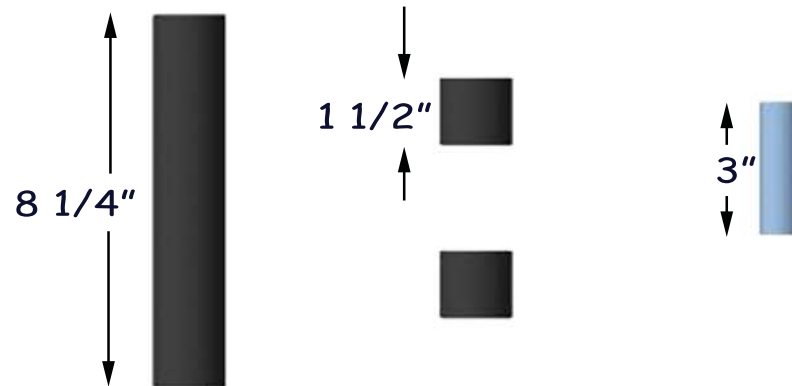
Notes

Use 5/16" rod for the following lengths. Once you have them cut, make sure to grind off all the rough edges on the ends and then measure 1/4" from the end and drill a small hole for a cotter pin.

You will also need 2 flat washers to go on the ends right before you put in the cotter pins.



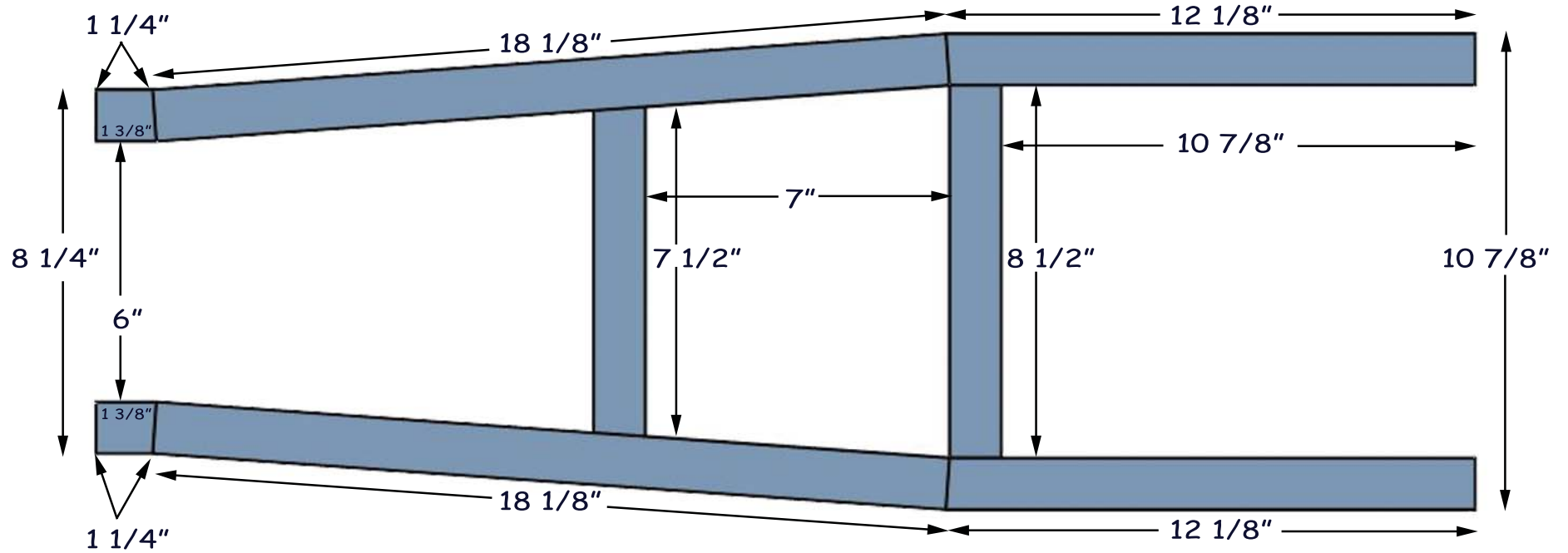
OK this is your teflon stock. Some hardware stores will sell it with a hole some without... This can really be made out of anything you want. Wood might even work for light lifting. The point is to find a hard roller surface that is 1 1/2"- 1 5/8" thick and have a 5/16" hole for the rod to fit through... Cut them to these lengths.



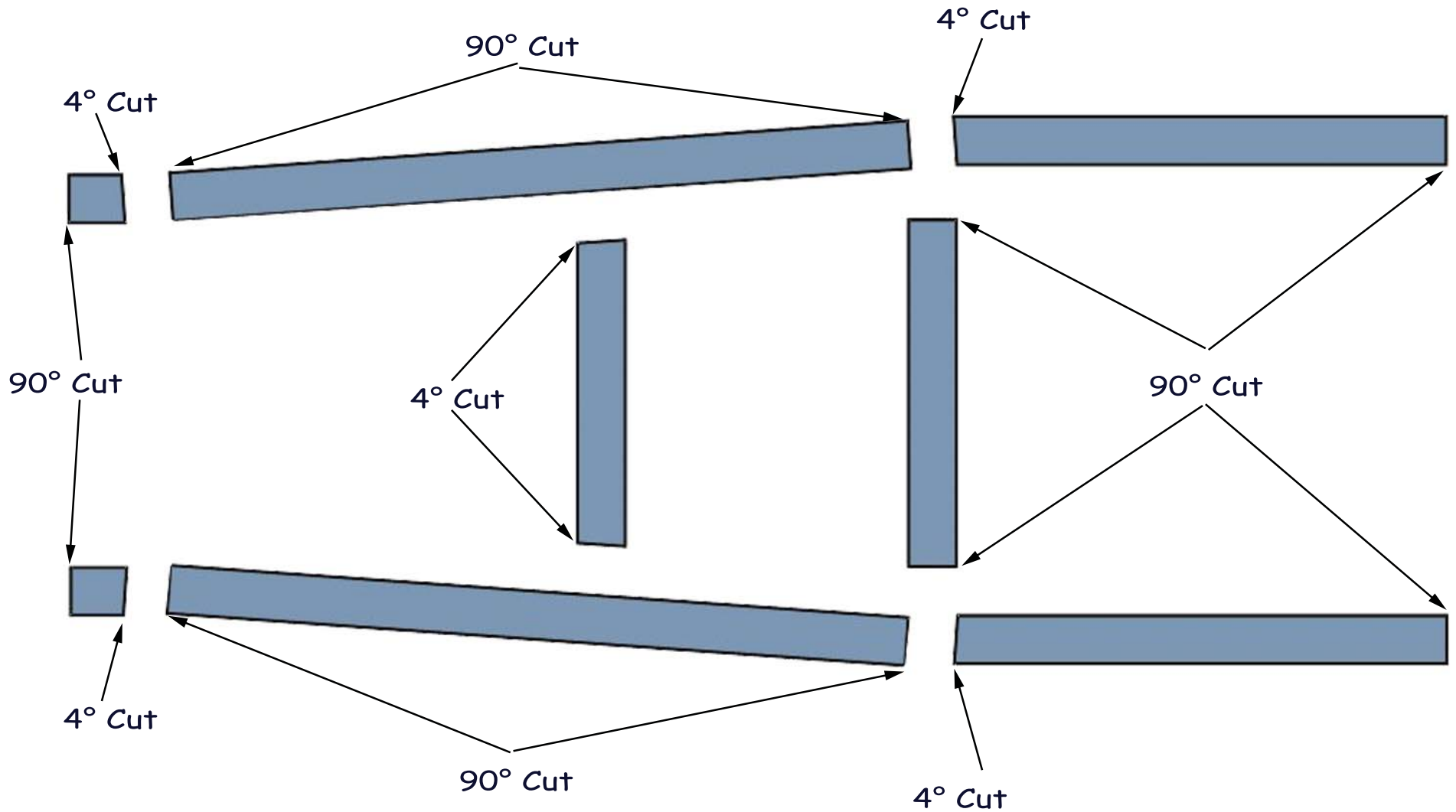
This might be a tricky one but you should be able to find a bushing that is 3" long and 1" in diameter with a 5/16" hole for the rod... You will need to weld to this, so make sure it is a good steel to weld to. Be careful not to get galvanized.

You can even make it or buy 1" stock and drill your 5/16" hole down the middle...

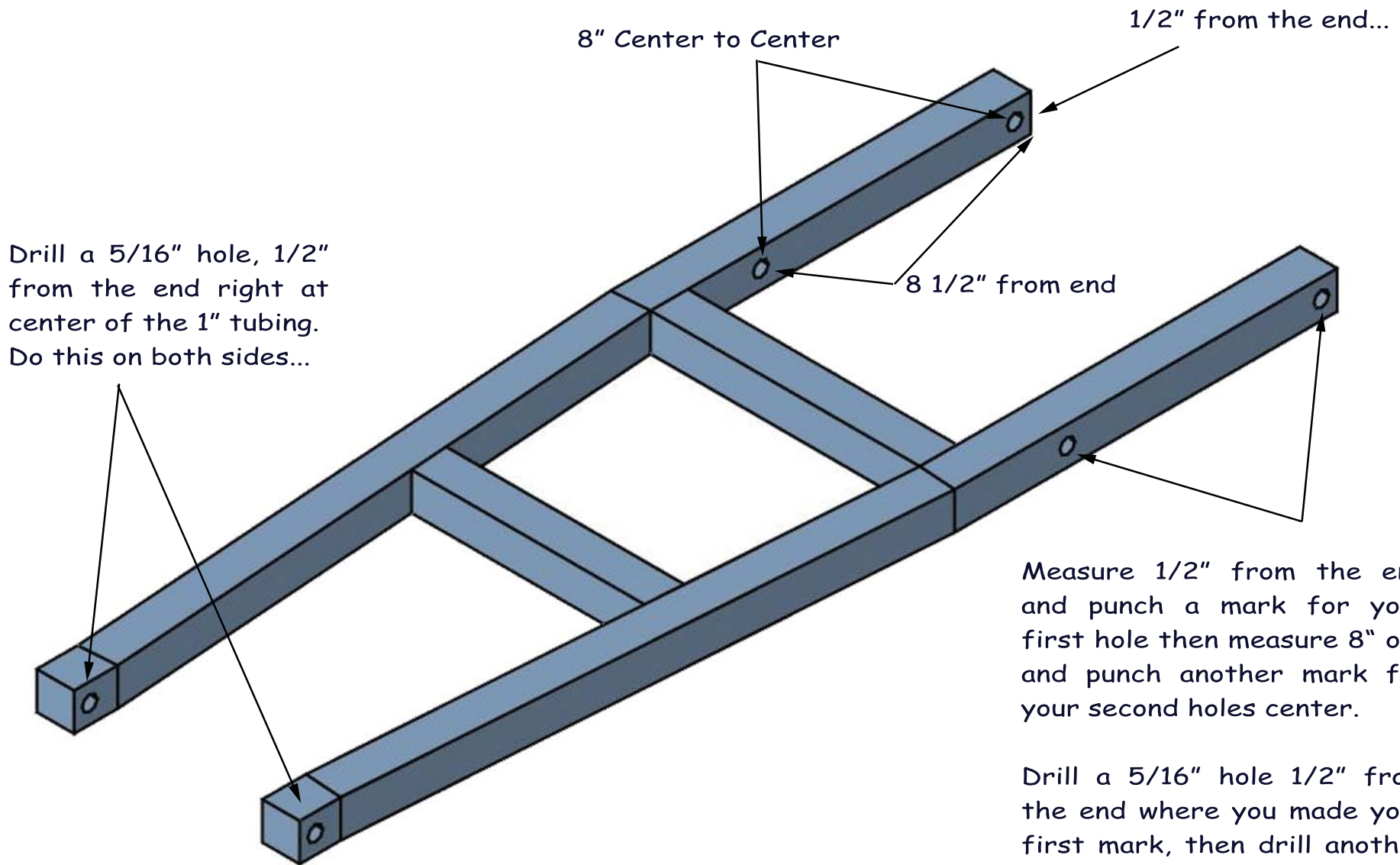
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	Base Measurements					



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	Base Cuts					

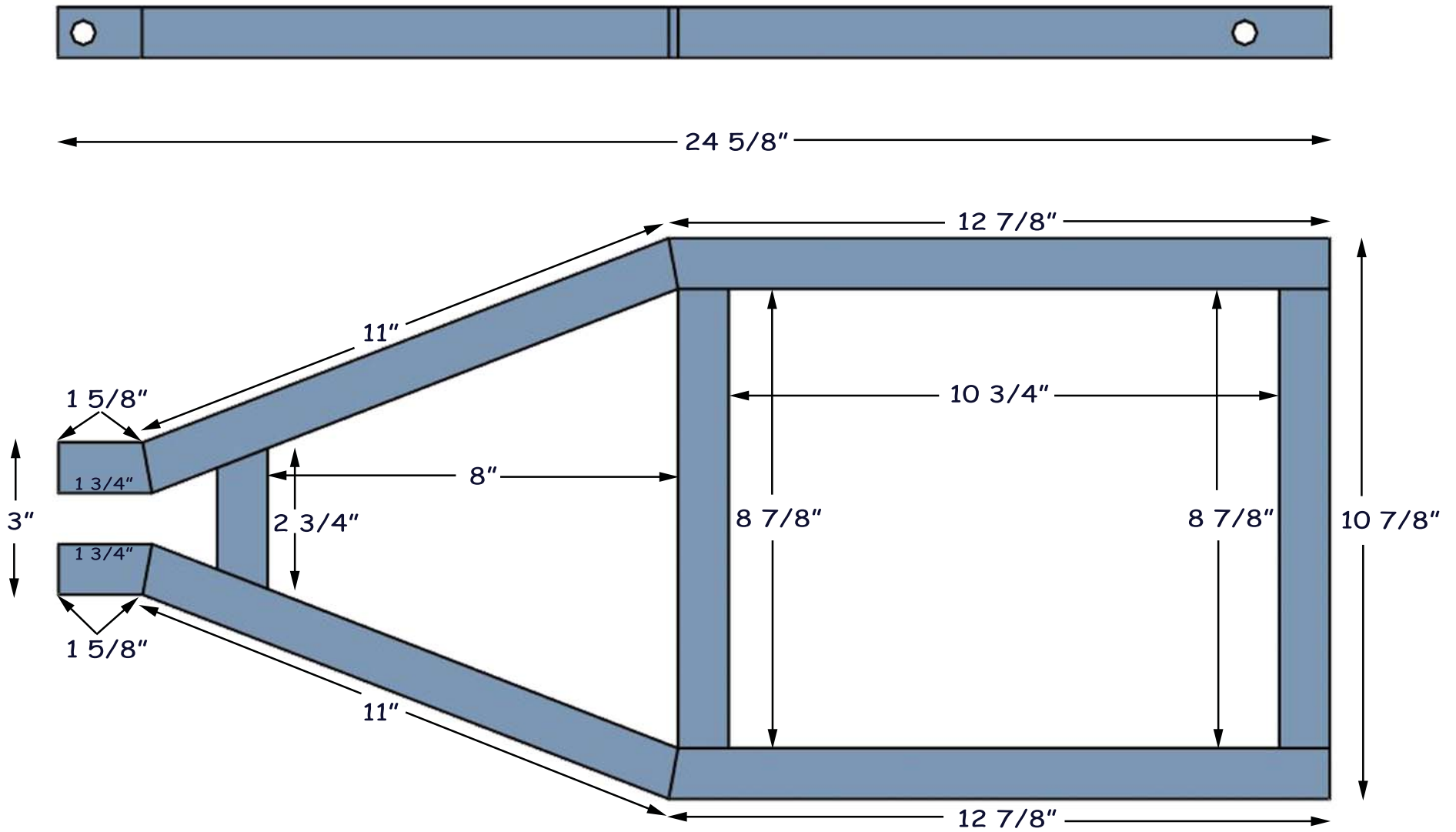


Drill a 5/16" hole, 1/2" from the end right at center of the 1" tubing. Do this on both sides...

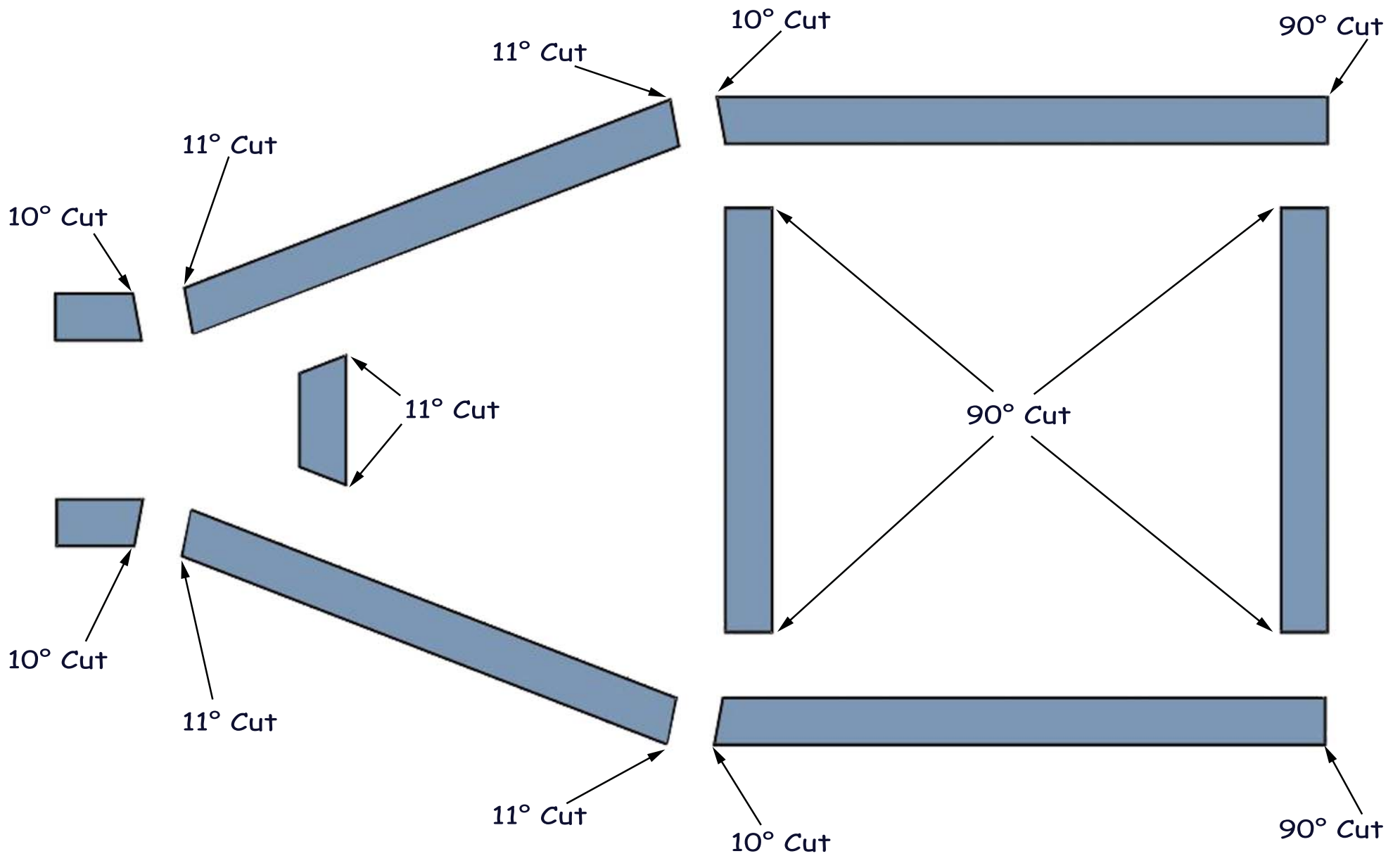
Measure 1/2" from the end and punch a mark for your first hole then measure 8" out and punch another mark for your second holes center.

Drill a 5/16" hole 1/2" from the end where you made your first mark, then drill another at your 8" center for your second hole... Do this on both sides...

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	Base - Drill Holes				

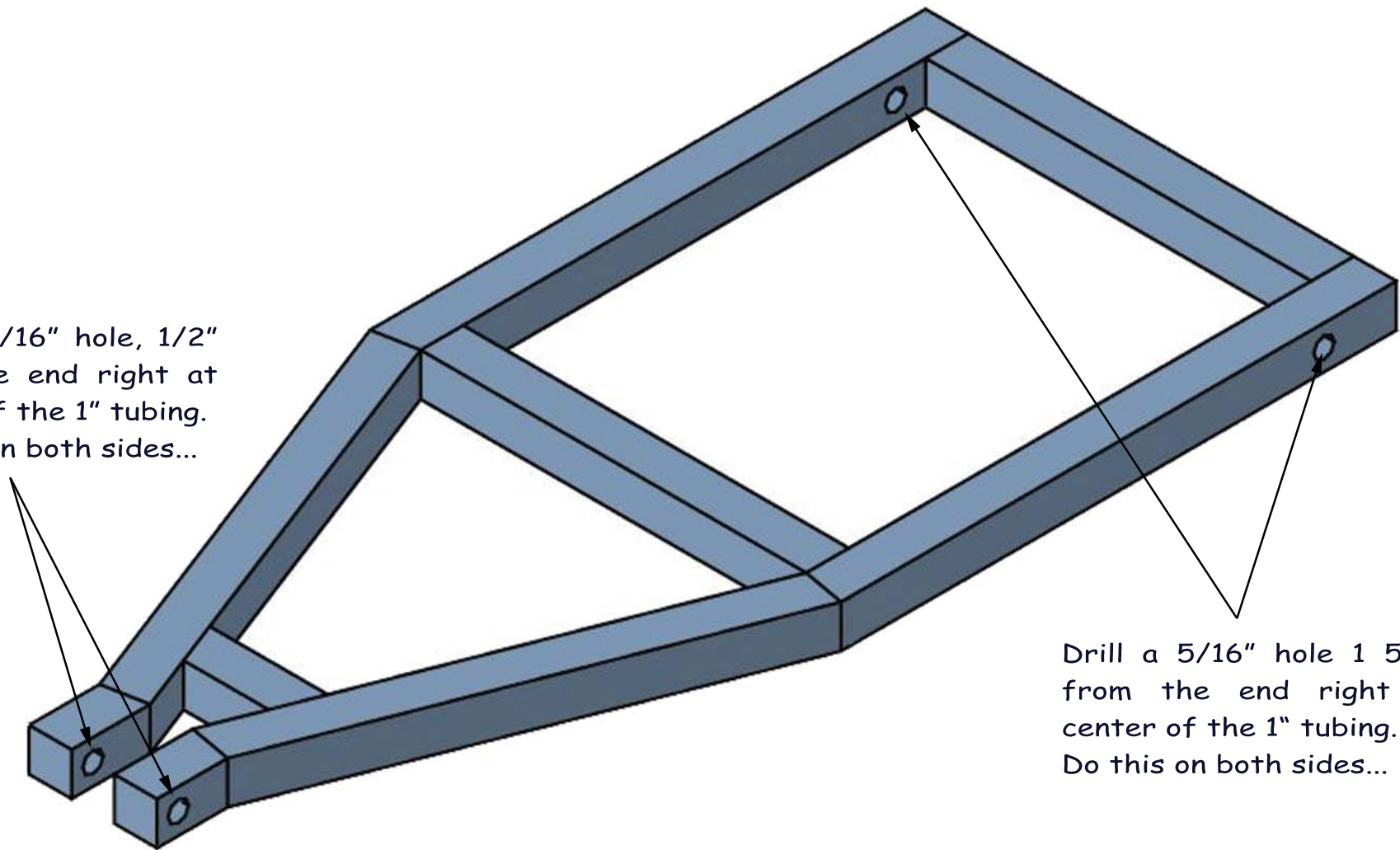


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	Top Measurements					



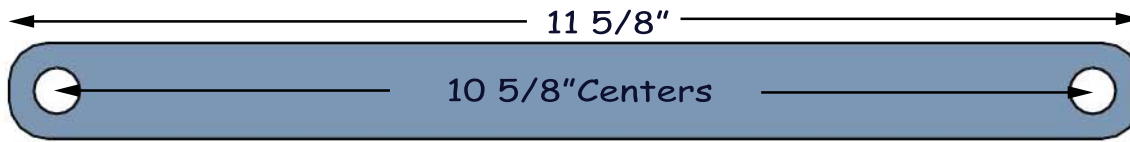
SPIDERCARTS	11		Ver.	0.1.2.6	Metal Type	Copyright is the property of Spidercarts and shall not be reproduced.
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		Top Cuts			Qty-1	

Drill a 5/16" hole, 1/2" from the end right at center of the 1" tubing. Do this on both sides...

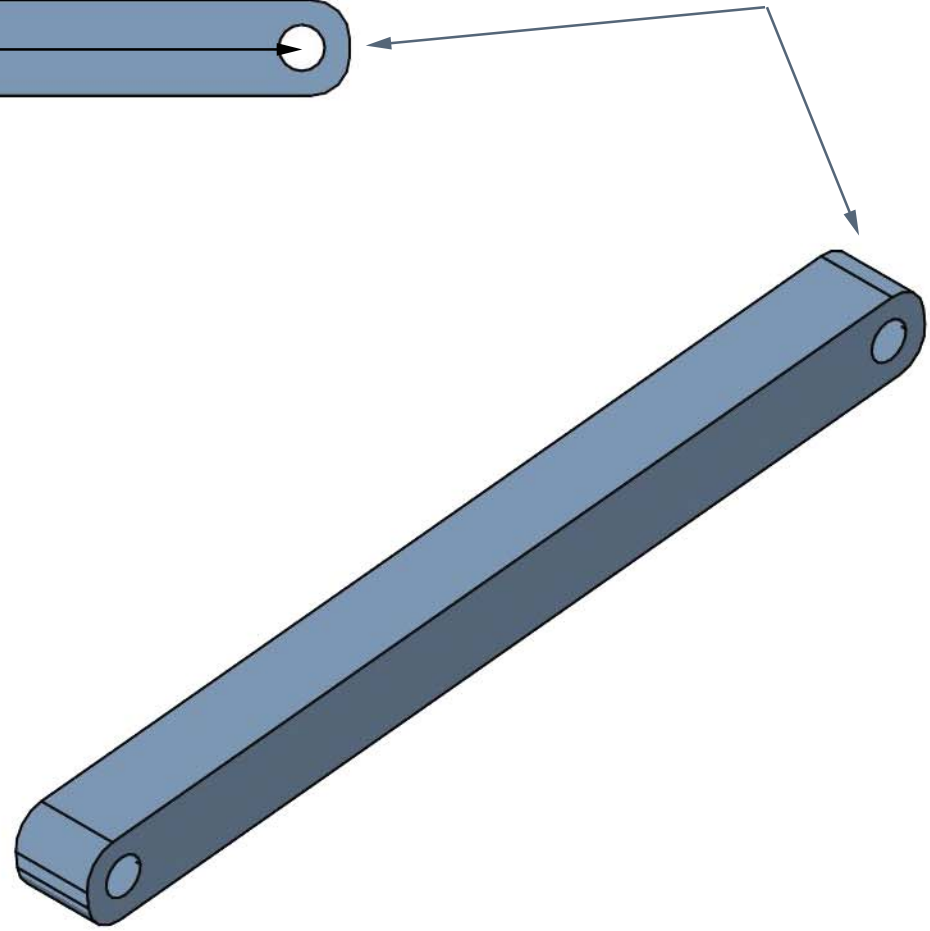


Drill a 5/16" hole 1 5/8" from the end right at center of the 1" tubing. Do this on both sides...

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	Top - Drill Holes					



Round off ends with grinder...



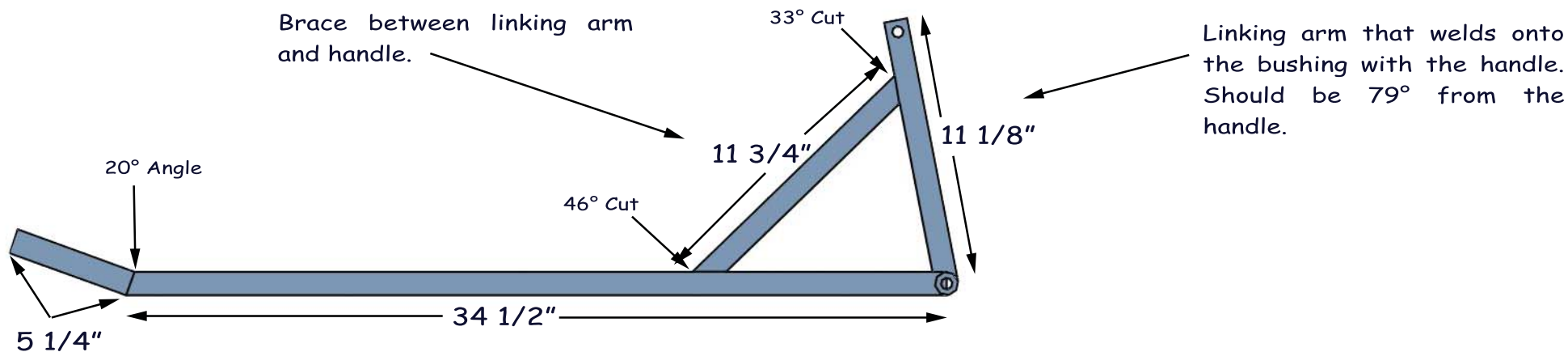
Notes

Start with cutting a $11 \frac{5}{8}$ " chunk of the 1" tubing... Then measure in $\frac{1}{2}$ " from one end and punch a mark for your first hole, then measure $10 \frac{5}{8}$ " from that center and punch another mark for your second hole. That last center should put you at $\frac{1}{2}$ " from the end of your cut piece...

Then drill two $\frac{5}{16}$ " holes on your marks.

Then round off your ends as shown. Be sure to spend some time here as this will effect how it works if you leave corners...

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	Linking Arms					

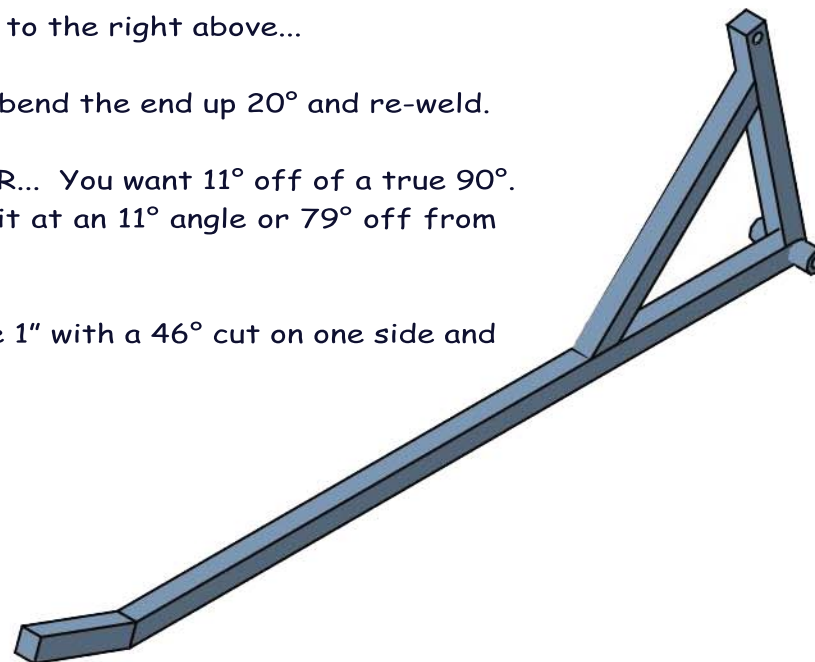


OK... This whole handle is really simple... It is all based around the 3" long and 1" in diameter bushing. I would start by cutting 11 1/8" from your 1" square tubing and then cut a 1" fish-mouth in one end and on the other end drill a 5/16" hole 1/2" from the end as shown to the right above...

Next cut a 39 3/4" piece and 5 1/4" from one end cut a notch and bend the end up 20° and re-weld.

So you will want to weld both to center of the bushing... HOWEVER... You want 11° off of a true 90°. Either weld the linking arm flat and the grind the handle end to fit at an 11° angle or 79° off from the Linking arm... Make sense?

The only thing left is the brace and its just an 11 3/4" piece of the 1" with a 46° cut on one side and a 33° on the other side.

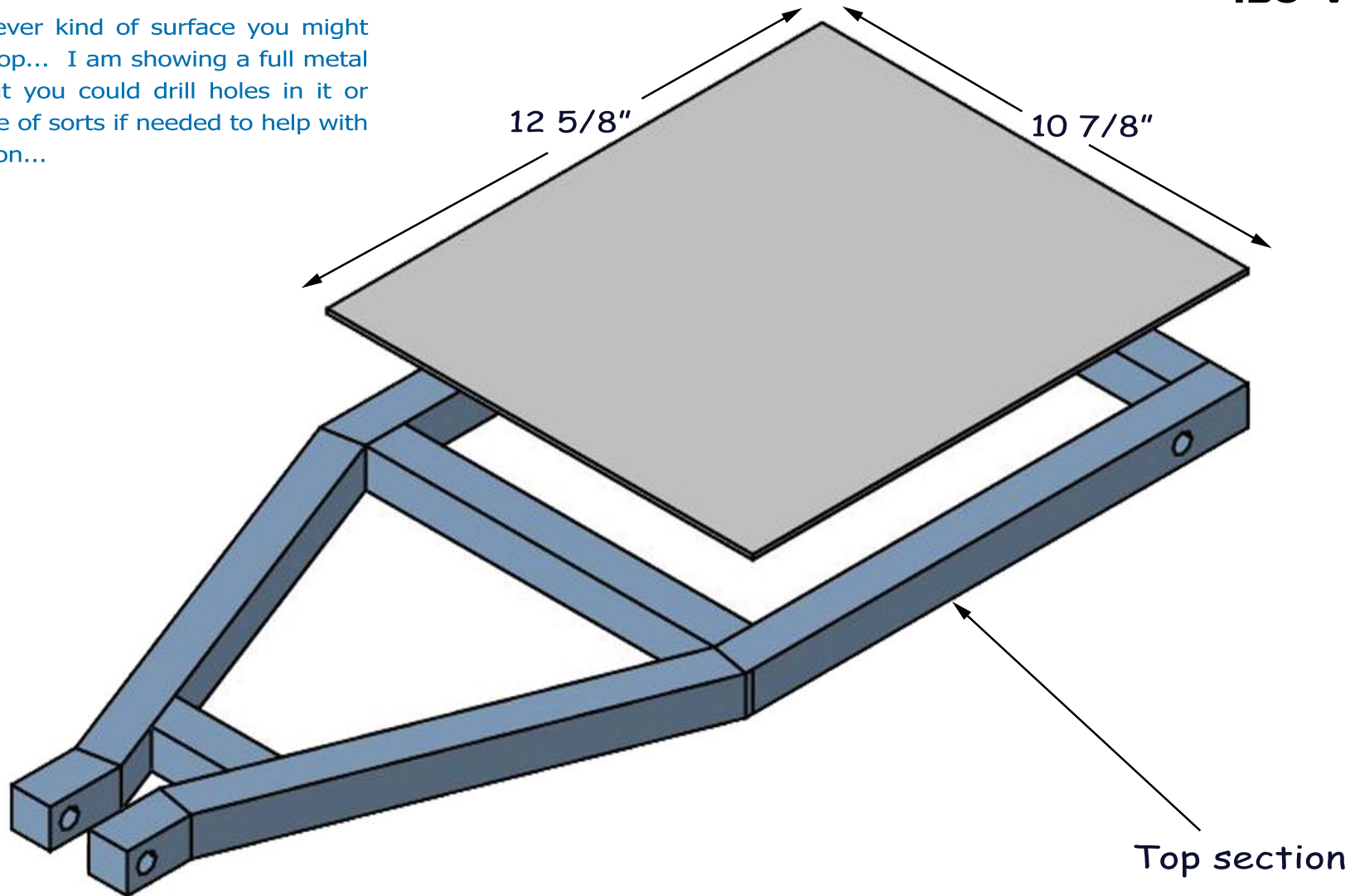


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	Handle					

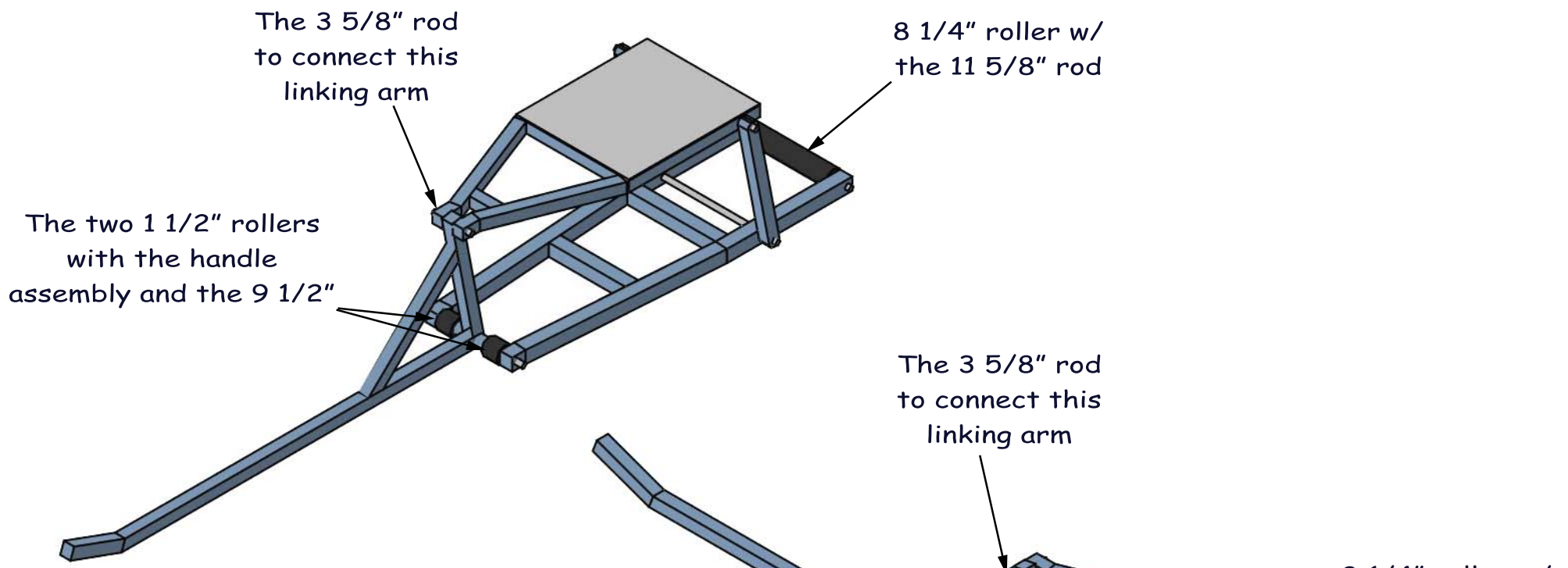
Notes

Attach what ever kind of surface you might want on the top... I am showing a full metal plate here but you could drill holes in it or attach a cradle of sorts if needed to help with your application...

Iso View



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	Top Plate					

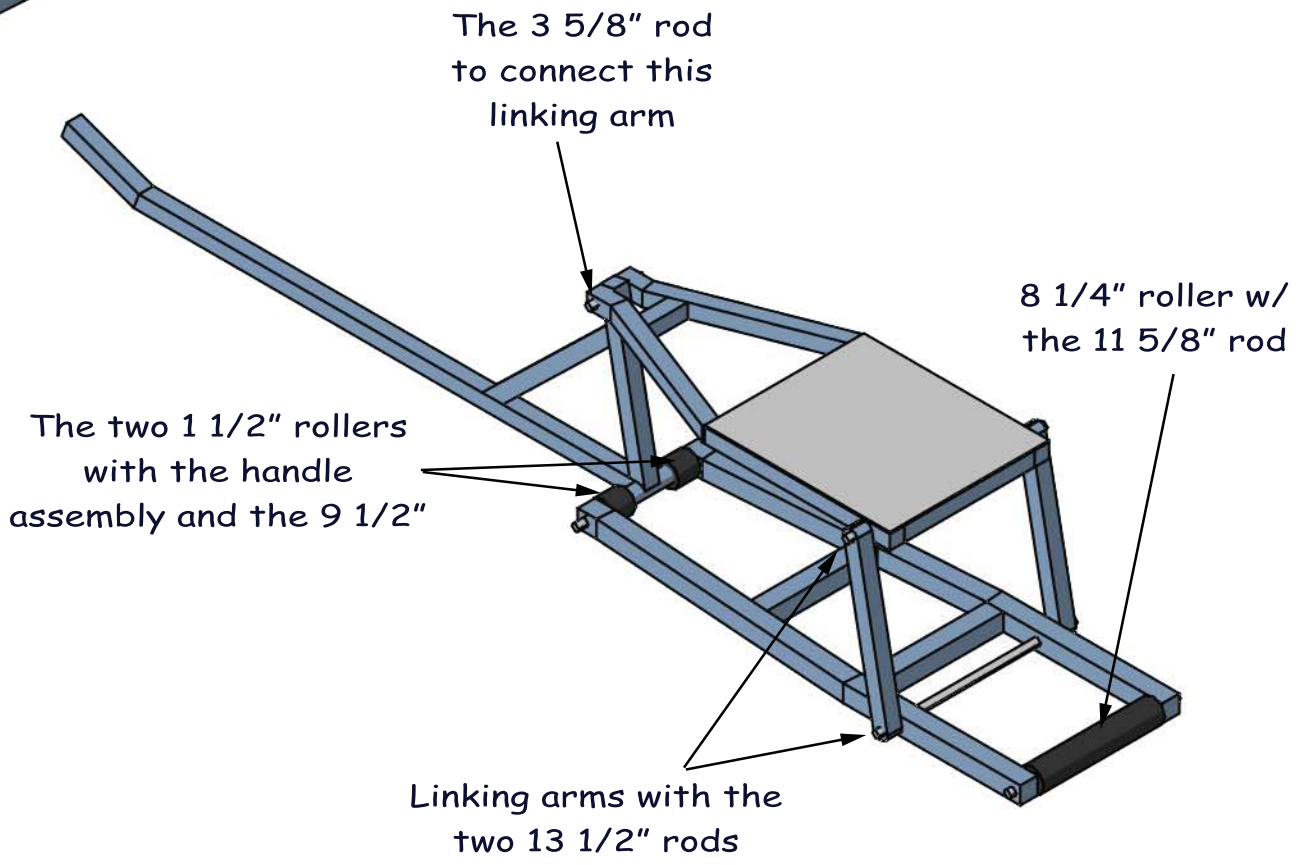


Notes:

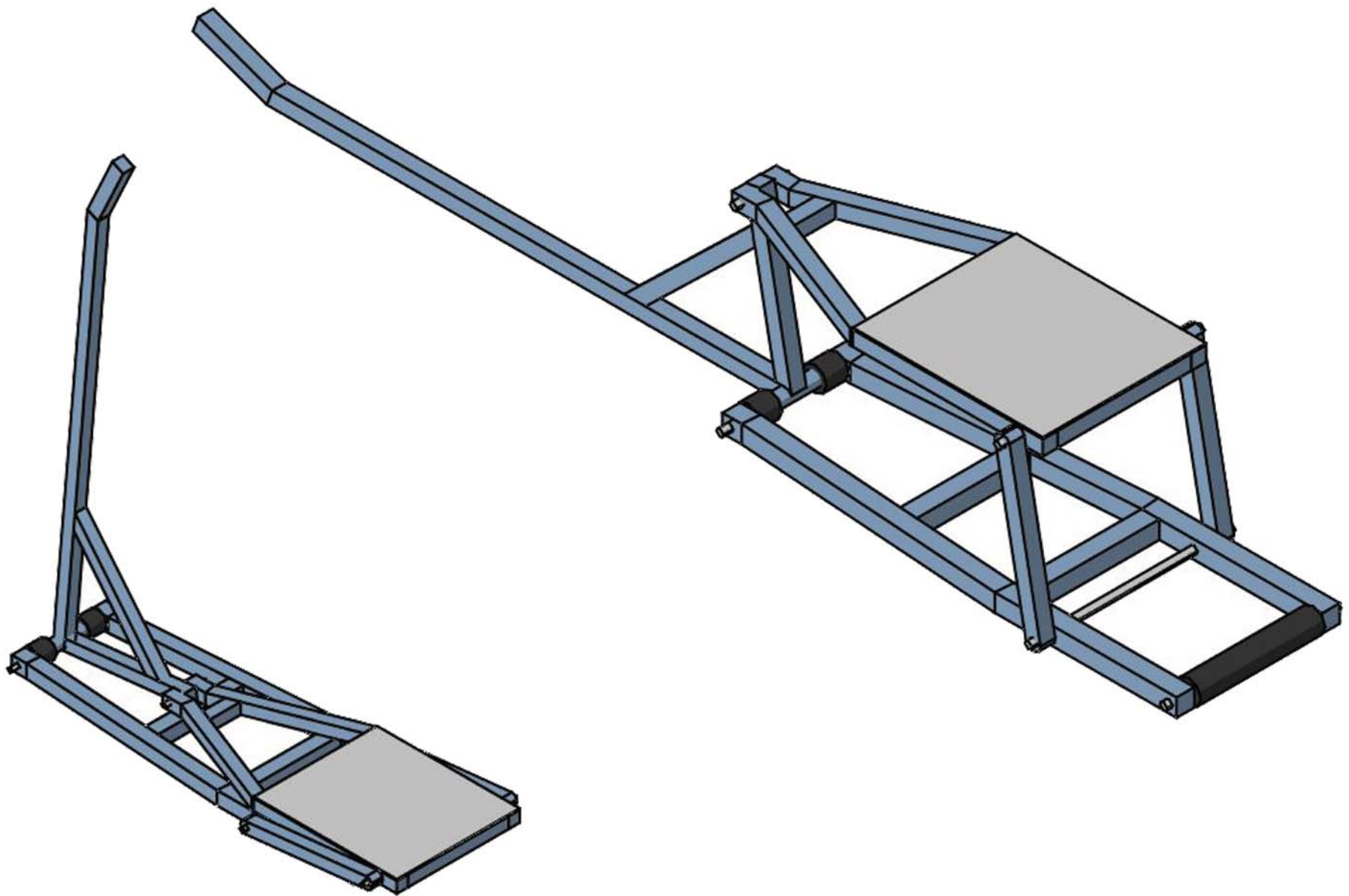
This is the easy part... After you have all the welding and parts cut putting it together is pretty obvious.

Use the rods in the positions shown. make sure to use washers between any moving parts and put cotter pins in the ends of the rods where we drilled holes earlier.

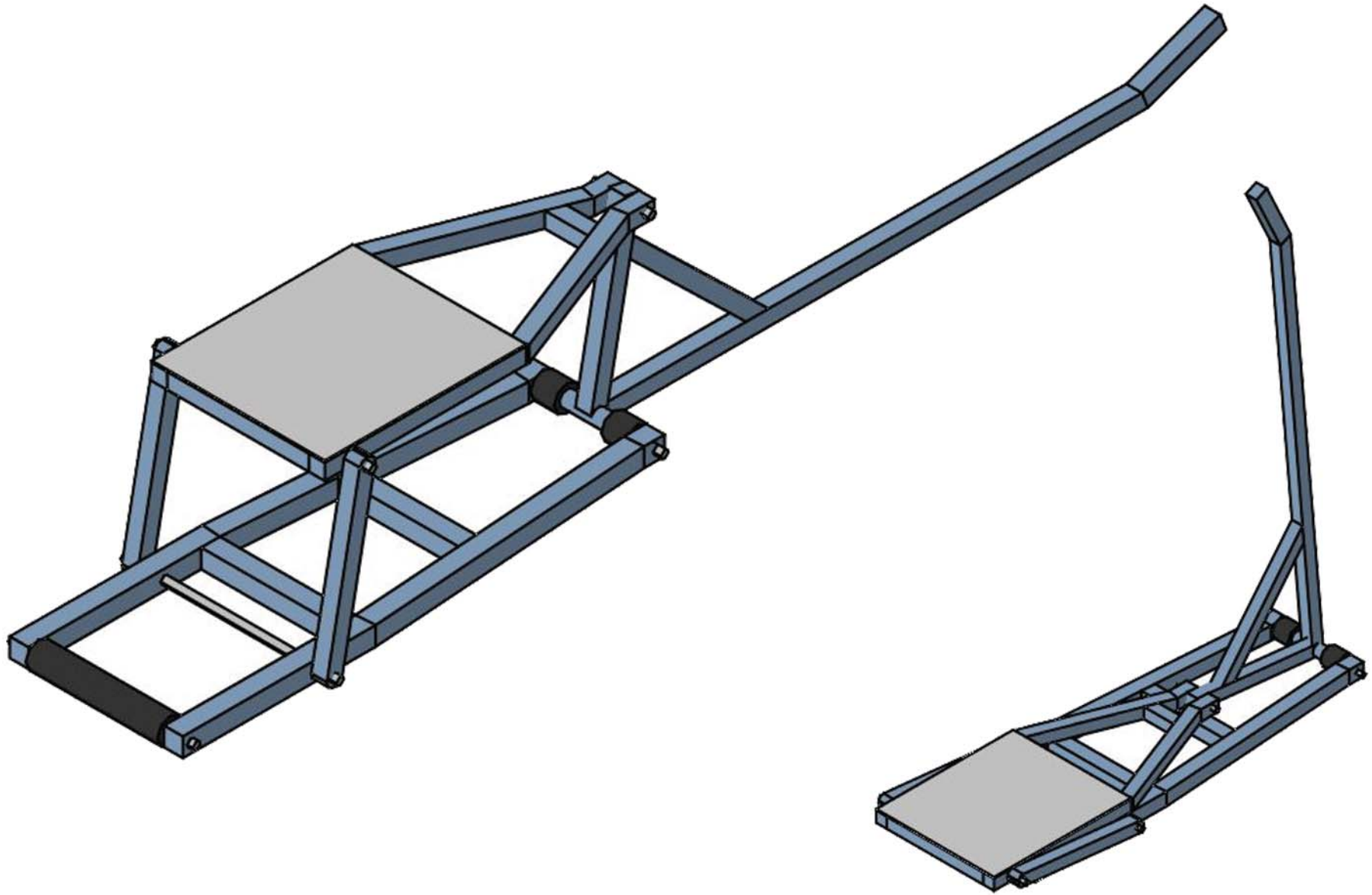
Thats pretty much it! Remember this is a starting point for you. Make changes to it as you need to fit your project or karts.



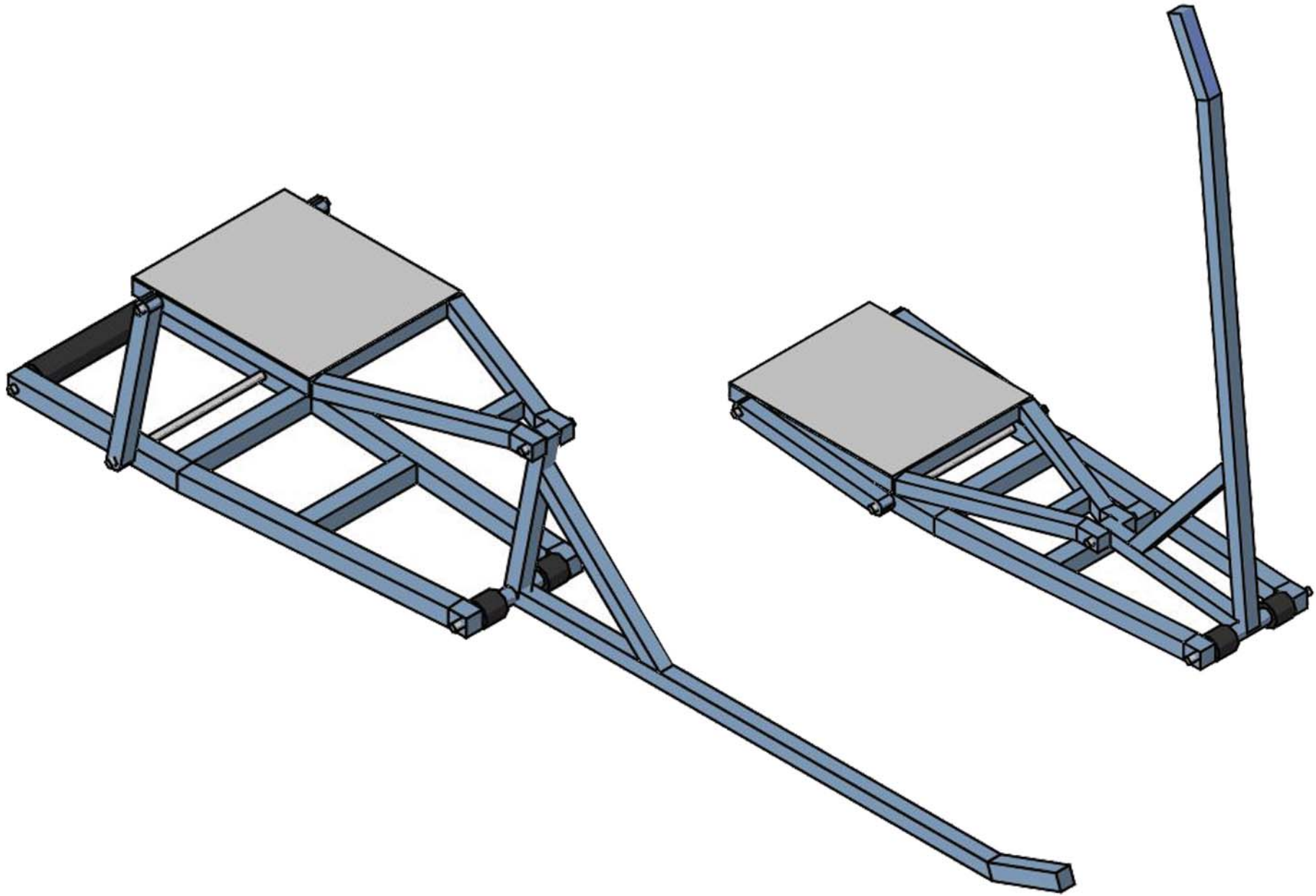
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	Assembly					



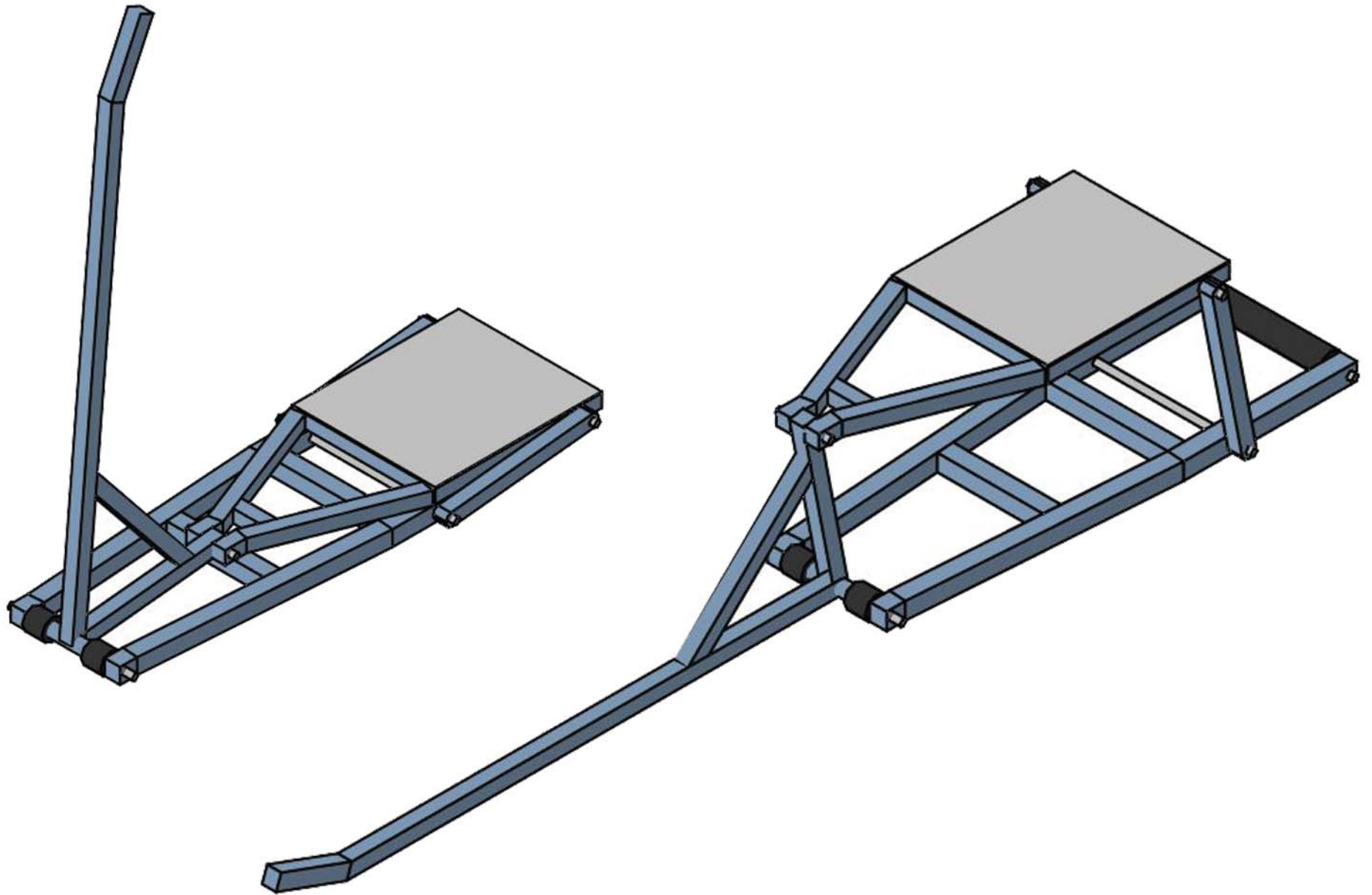
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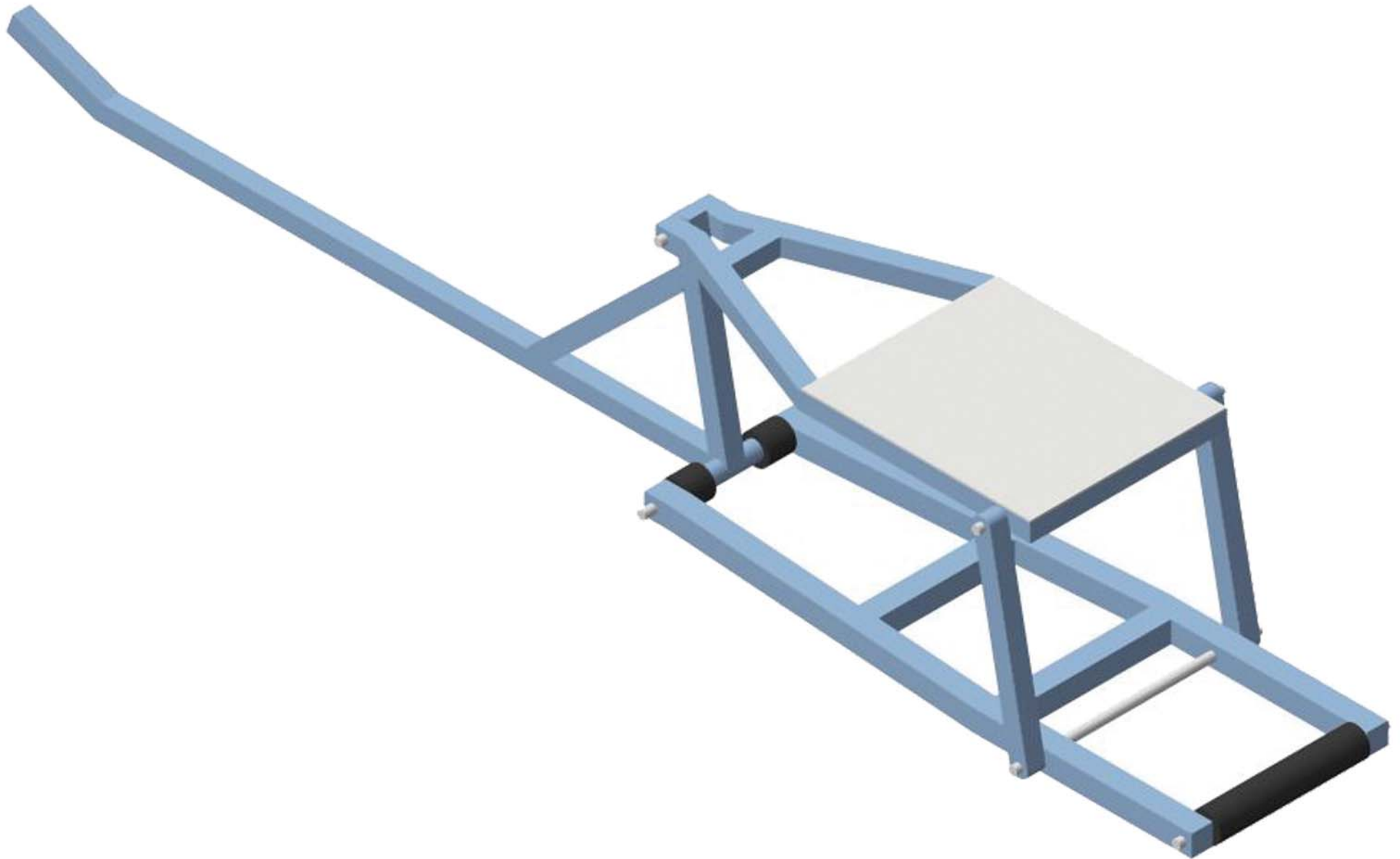
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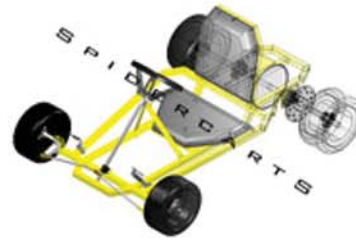
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Itzy Bitzy



Recluse



BlackWidow



Scorpion



Tarantula



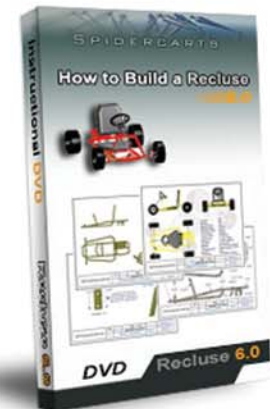
Arachnid



Speedo Plans



GrandDaddy



Recluse DVD

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