TaranTula

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		TARANTULA PLANS				

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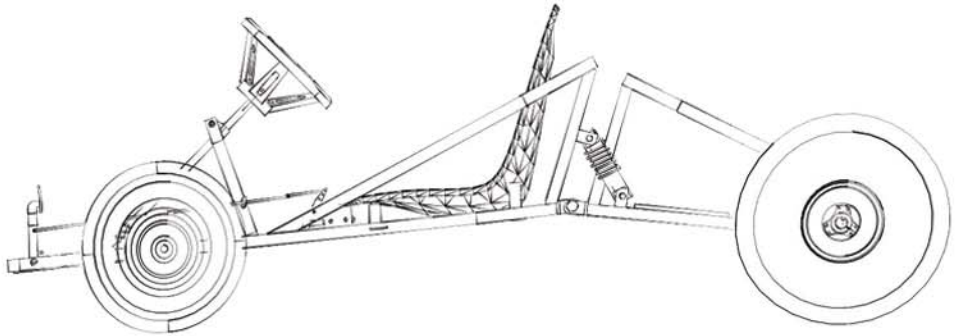

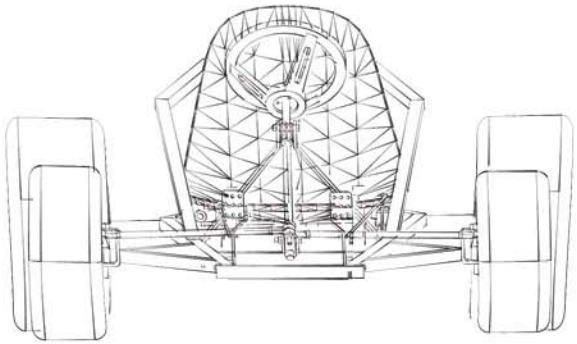

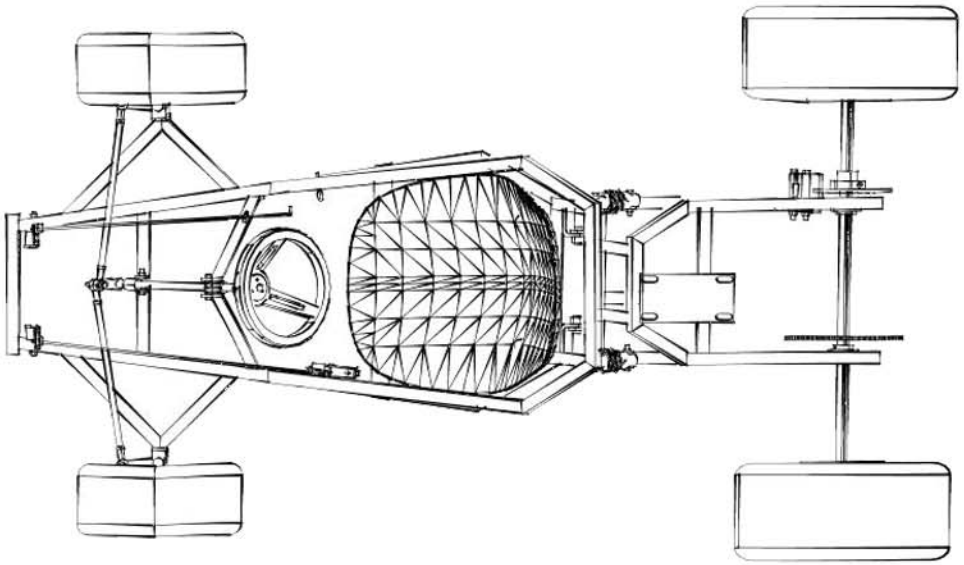

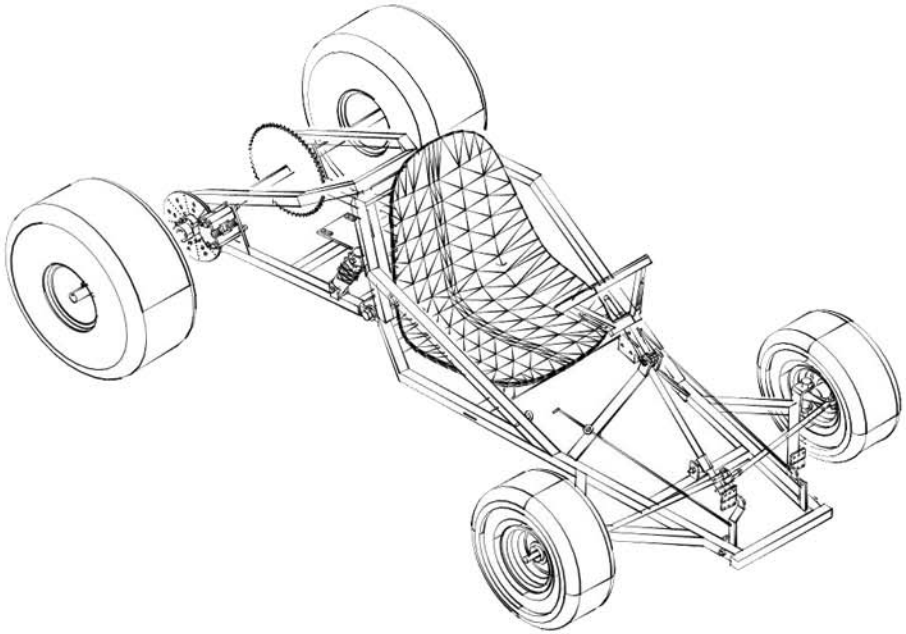

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		TARANTULA				

Thank you and welcome to your new Tarantula eBook.

As you can see these plans are easy, fun and full of great information to walk you through completing your Tarantula Go Kart.

Our special feature in this eBook is the "Exploded View". Exploded view is a brand new concept we have implemented and we think you will love it. Use this like a webpage with links. You just click on the part you need to build or get info on and it will take you right to it. So use the bookmarks and the exploded view to quickly navigate the eBook. Give it a whirl!

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.

Step by Step will walk you through the correct order of the build.

Diagrams detail every part and section of the kart.

Parts List is a list of all the hardware needed to finish off the kart after you are done welding. We have linked all the parts to a vendor we use for your convience.

Revisions will be a work in progress. Sometimes we will get feedback on our designs and people tell us what might make the kart better. If we think they are good ideas they end up in the Revisions page. So feel free to let us know of anything we could improve on and we will post it.

Resources are just some of the internet sites we have found to be helpful.

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		INTRODUCTION				

Here is a list of tools that we used on our first karts.
This list is probably a minimum and any other tools that make your kart building easier would be that much better.

- A truck or trailer. Most of the metal houses carry steel in 20- 24 foot lengths. They will sometimes cut them in half for you for a small charge but even a 12 foot piece of tubing can be hard to get home in moms minivan.
- 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 to expensive and very easy to use. Most of them have a angle guard so you can set it for different degrees when cutting.
- After cutting the metal there is 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 wont 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 its 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 to 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 its 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. Lets 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 kart. There is a lot more that needs to go on it after it is built such as bearings, tires and wheels,
motor, etc.

40 Feet of 1" X 1" #14 gauge square tubing.

03 Feet of 1" X 1/8" flat stock

06 Spindle Brackets - Part # TA-411300

02 Bearing Hangers - Part # TA-400415

01 Motor Mount Plate 5" X 12" (Needs to be cut to 4" x 8")
- Part # TA-400367

05 Shock Mount Weldments - Part # TA-300805

06 Feet of 1/8" steel Rod

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		Materials				

Sugested Steps

The order you decide to build these parts is up to you but I would like to give a simple step by step guidline.

1. First start with the Back or sub-frame. That way if you have any adjustments or need new parts you can order those while you finish the front main frame.

2. Then cut out and layout all the flat parts for the main frame. Spend some time making sure it is straight and flat. Make sure and measue "Criss-Cross" to double check yourself. This will help to get it all straight.

3. Weld on the weldments next in the given locations. Steering brackets, shock mount tabs, Bearing hangers, and all the spindle brackets. Once again make sure it is all straight. Make changes needed for your specific

4. Finally Put on all your hardware and remember this is a project and "Plans" only for a kart concept... This is your project so you can change anything! Might want bigger shocks or a different seat or no shocks at all? Just take the time to make it the kart you want... put on all the hardware to make sure it all fits then take it all back off and get it ready to paint. I use Hammered Finish spray paint if I am painting it myself. Have fun!

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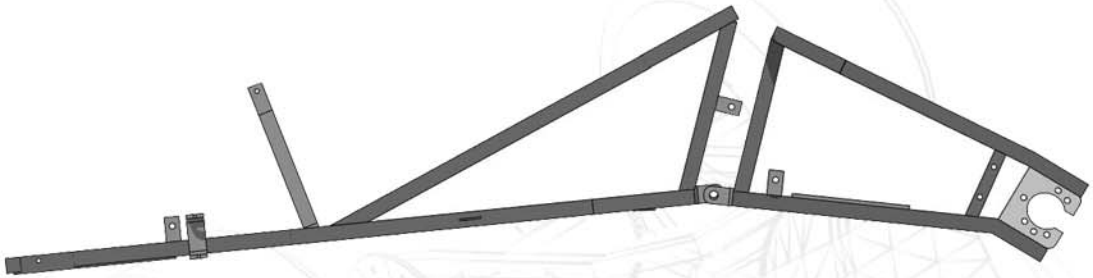
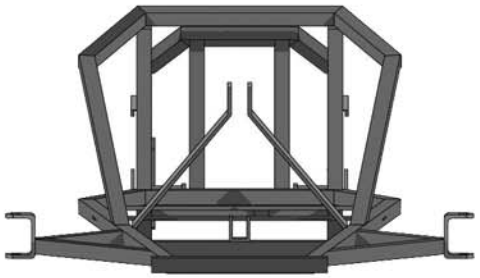
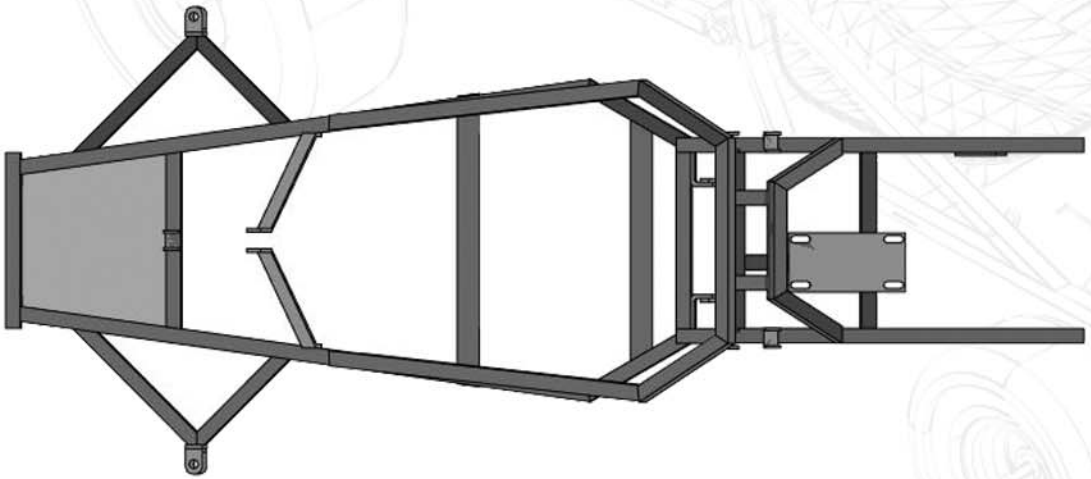
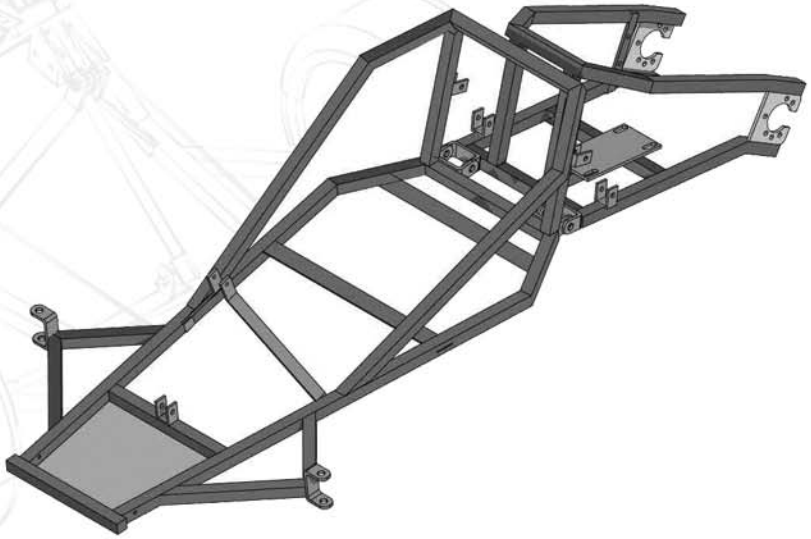
		Steps				









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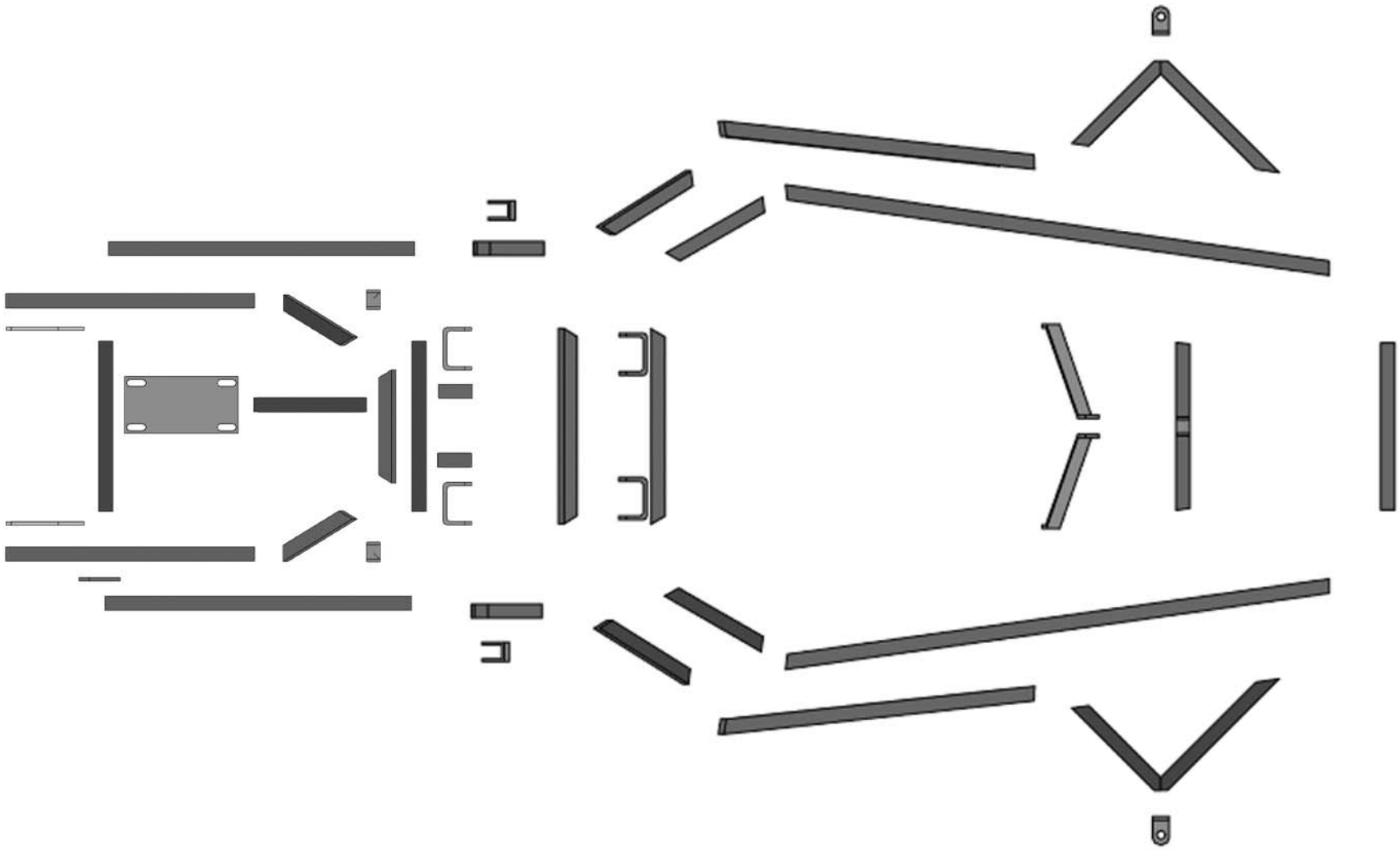
		TOTAL WELD				



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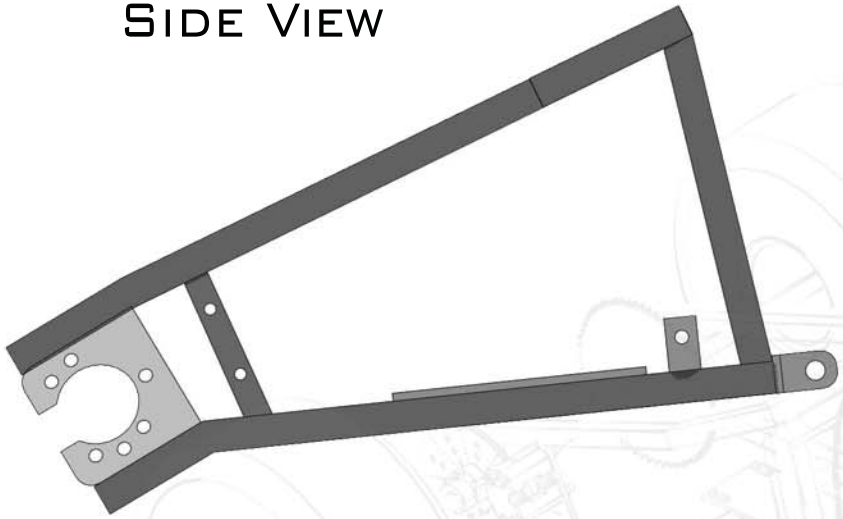
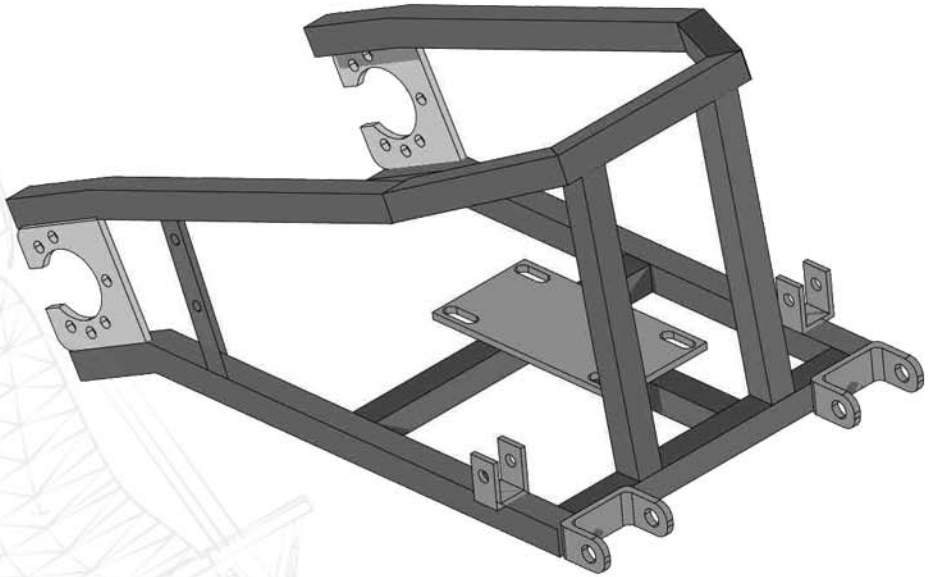
		EXPLODED VIEW				

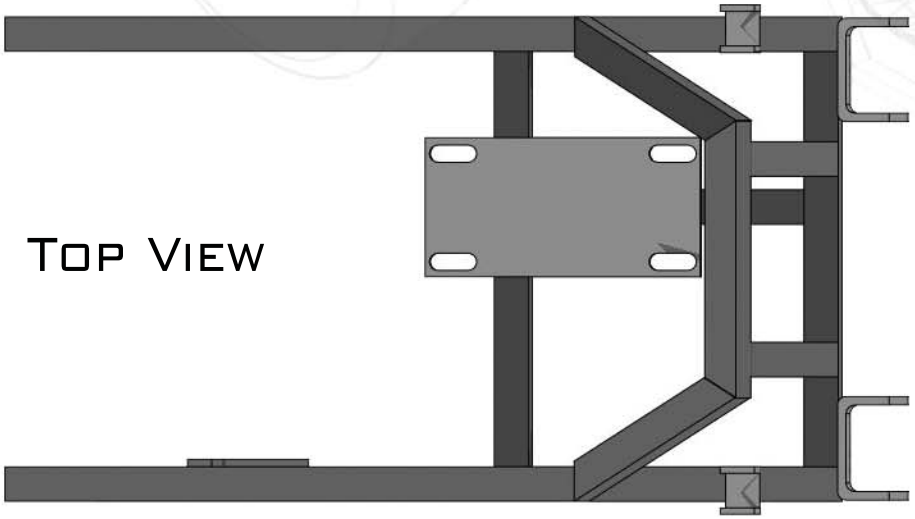
Side View

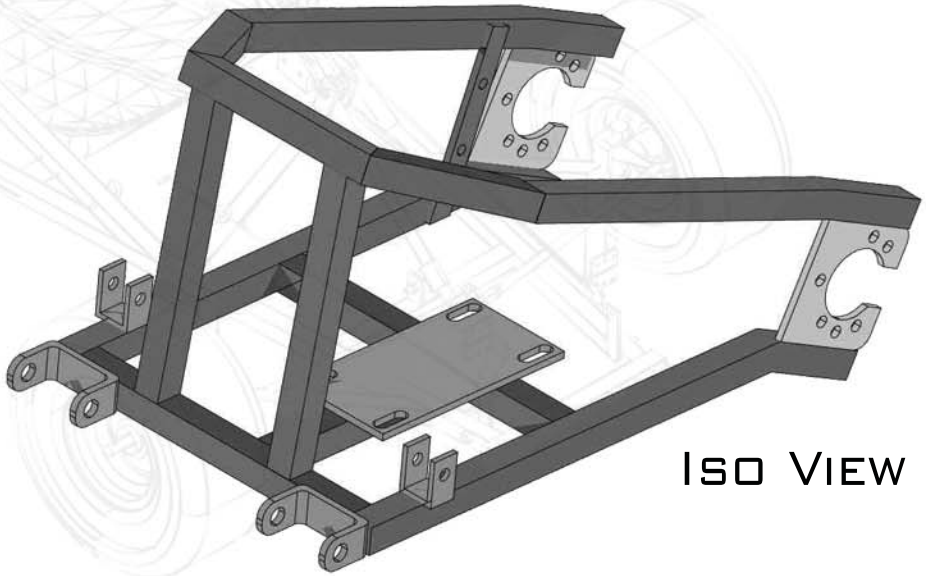


Iso View



Top View





Iso View 2

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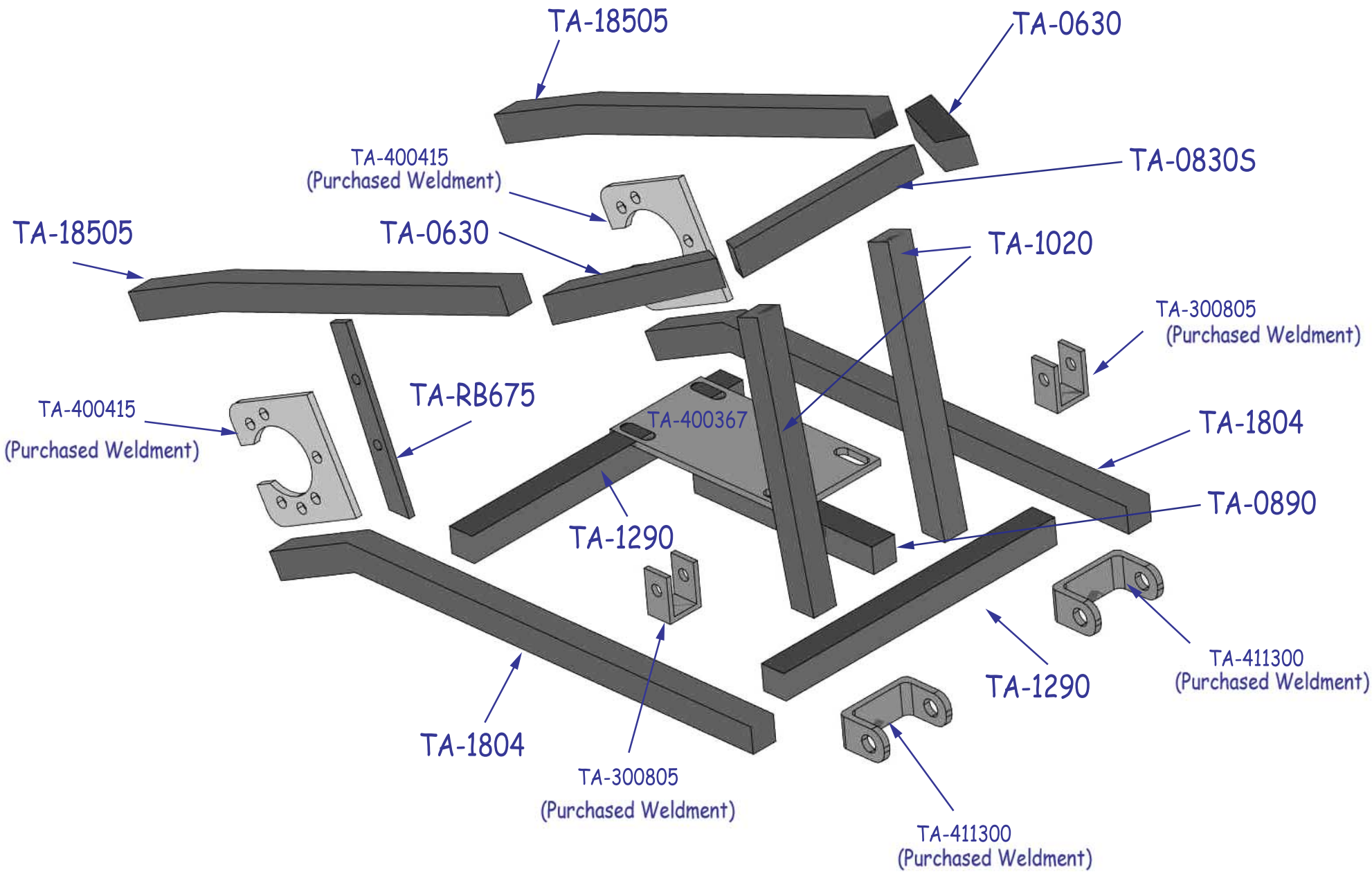
		TA-Sub-Frame			Qty-1	



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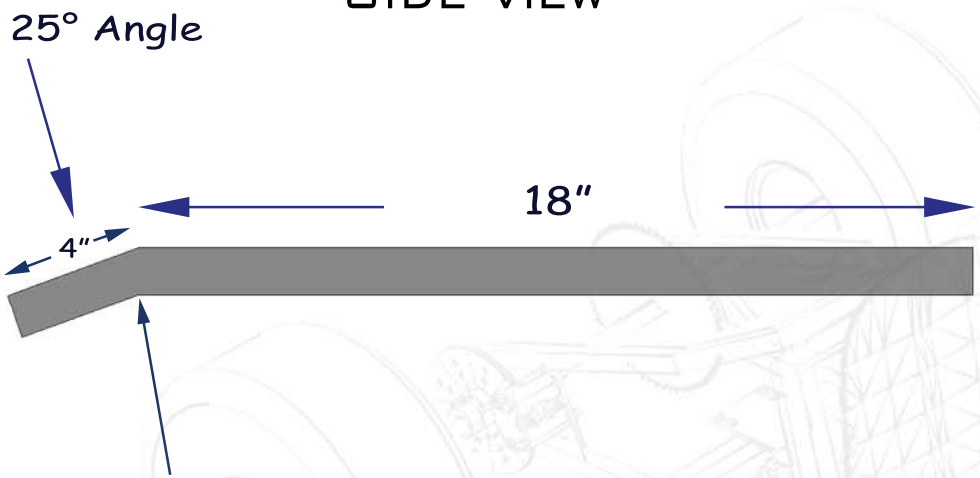
		TA-SUB-EXPLODED			QTY-1	

Side View



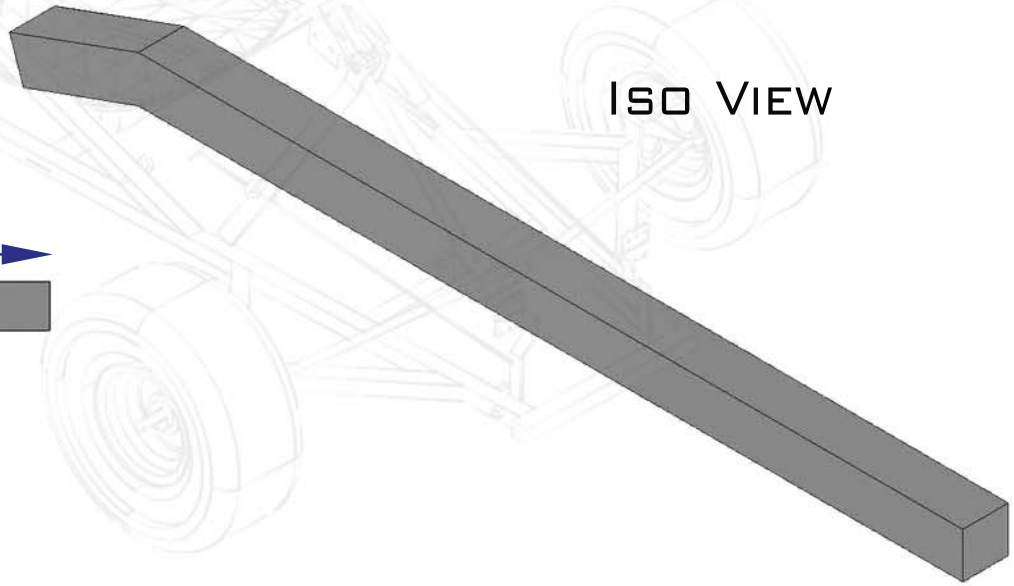
Cut notch here & bend end down as shown. Then re-weld.

Top View

Notes

Okay its time to start cutting. We Will be using the 14 gauge 1" square tubing for most all the parts. Start by cutting a 22" piece with 90 degree cuts on both ends. Then make a mark at 4" from one end and cut a 25 degree notch from the bottom up to the top but don't cut all the way through. Once you have a notch then hammer the notched end down till you get a 25 degree angle and then weld the notch back together. You need to build 2 of these.

Iso View



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		Parts / TA- 1804			Qty-2	

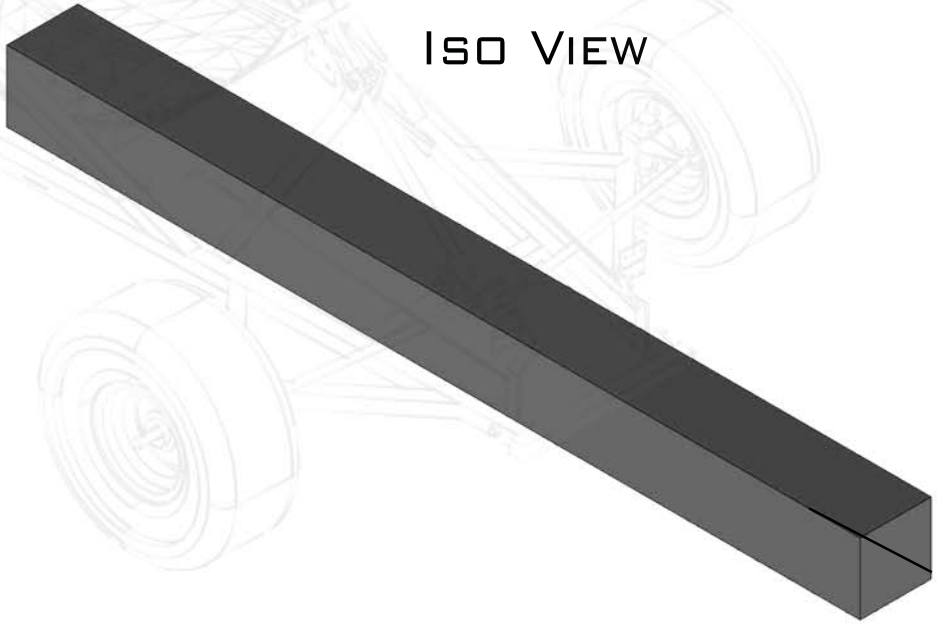
Side View

Notes

This is very easy to make, just cut a 90° then measure 12" and cut another 90°. Thats it! you will need 3 of these.
This is Part Number TA-1290

Top View

Iso View



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		Parts / TA-1290			Qty-3	

Side View

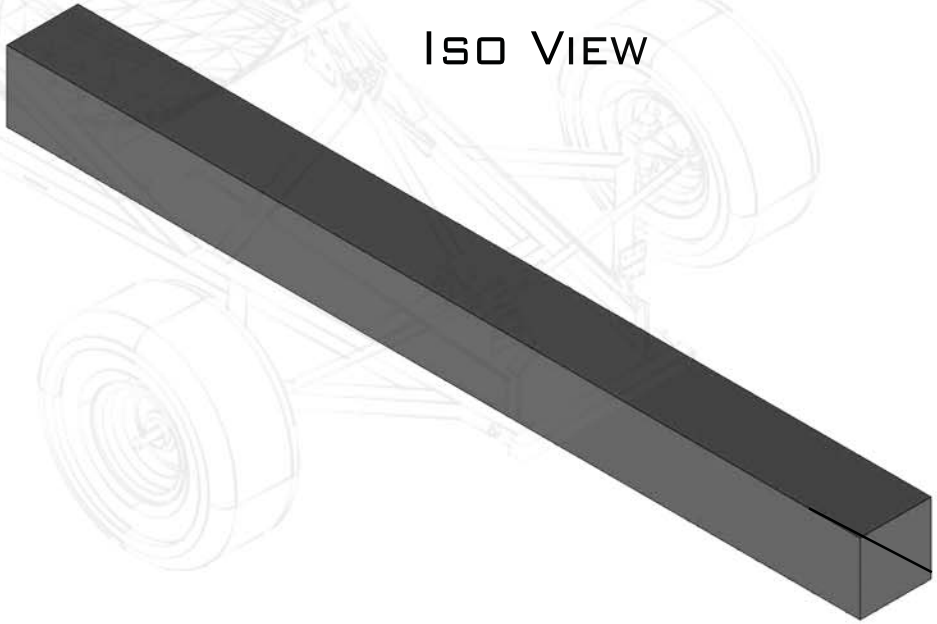
90° Angle Cut

Notes

This is very easy to make, just cut a 90° then measure 8" and cut another 90°.
Thats it! you will need 1 of these.
This is Part Number TA-0890

Top View

Iso View



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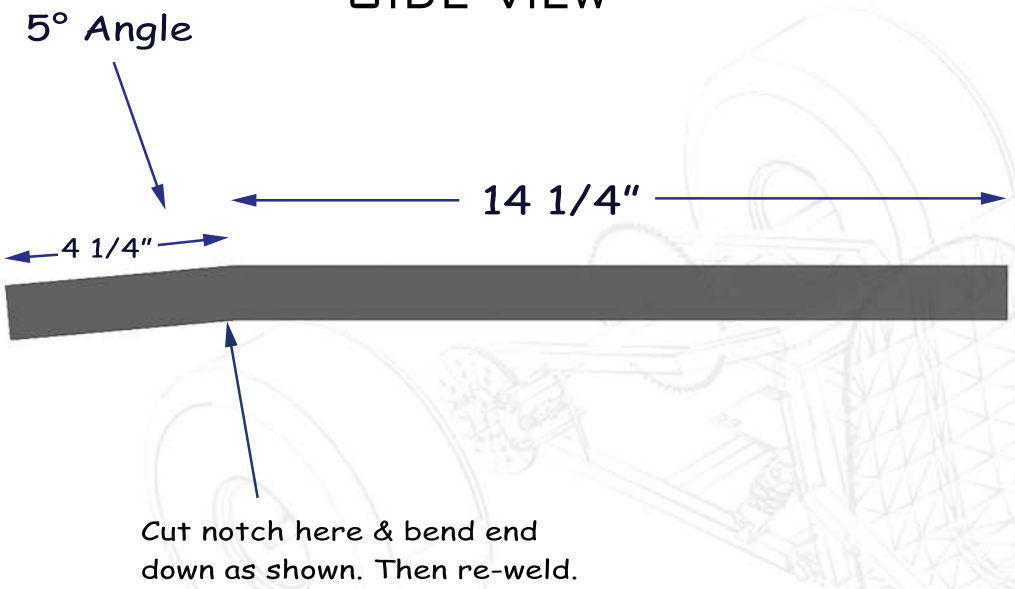
		Parts / TA-0890			Qty-1	

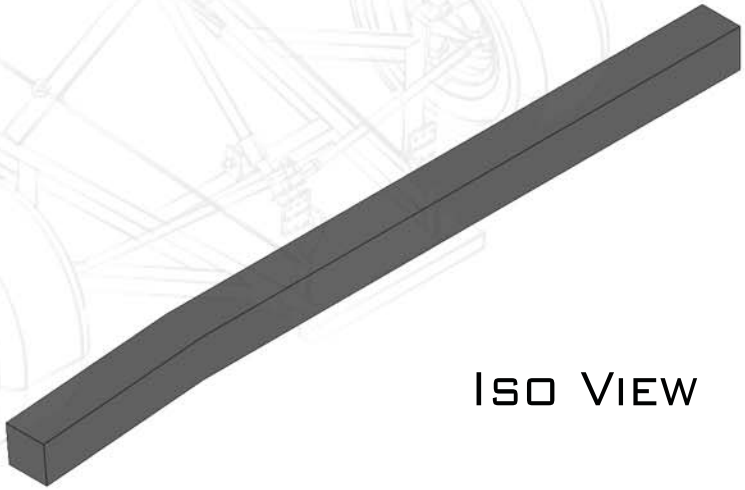
Side View



Notes

Okay its time to start cutting. We Will be using the 14 gauge 1" square tubing for most all the parts. Start by cutting a 18.5" piece with 90 degree cuts on both ends. Then make a mark at 4.25" from one end and cut a 5 degree notch from the bottom up to the top but don't cut all the way through. Once you have a notch then hammer the notched end down till you get a 5 degree angle and then weld the notch back together. You need to build 2 of these. This is Part# TA-18505

Top View



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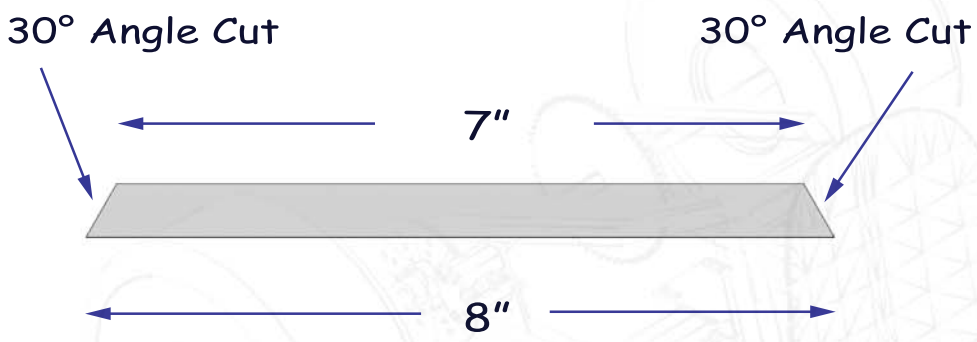
		Parts / TA-18505			Qty-2	

Top View

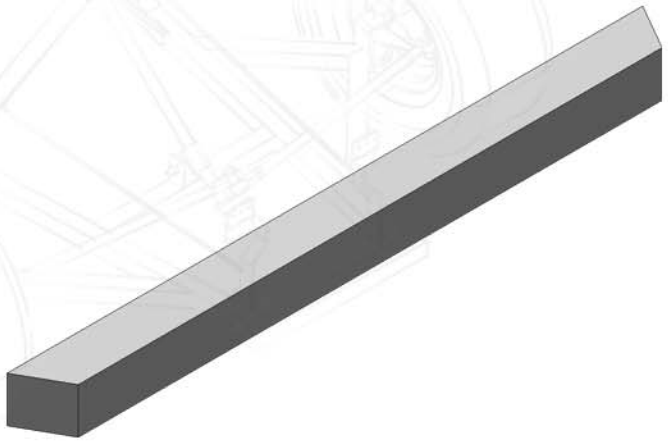


Notes

We will use this for the corners of the main frame. Just cut a 30° then measure 8" and cut a 30° cut. Thats it!
You will need 1 of these.
This is Part Number TA-0830S

Front View

Iso View



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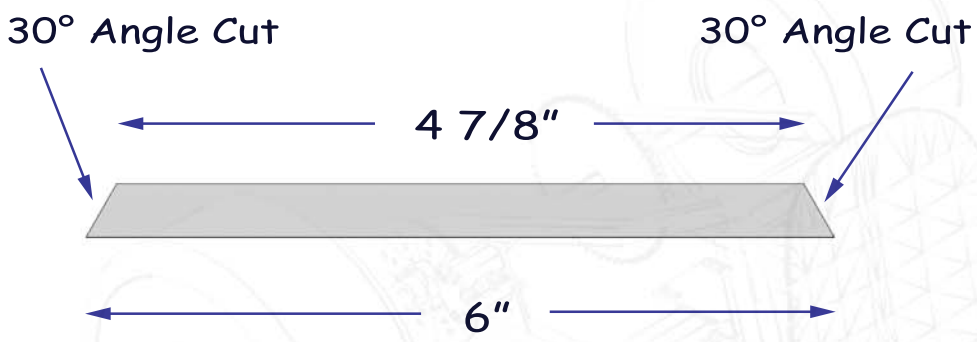
		Parts / TA-0830S			Qty-1	

Top View

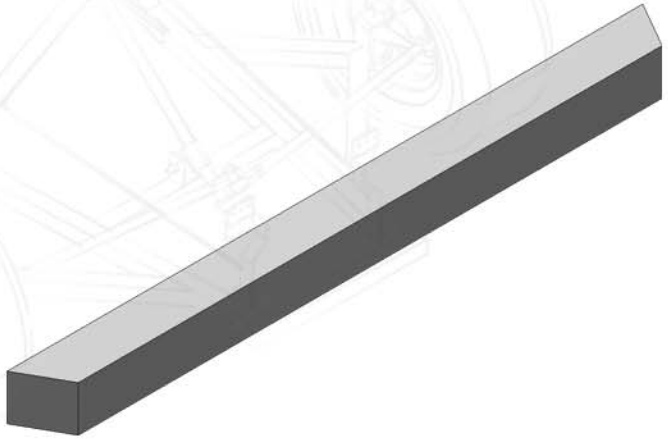


Notes

We will use this for the corners of the main frame. Use the 1" x 1" tubing again and just cut a 30° then measure 6" and cut another 30° cut that mirrors the other. Just make sure they mirror and you will be fine.
Thats it!
You will need 2 of these.
This is Part Number TA-0630

Front View

Iso View



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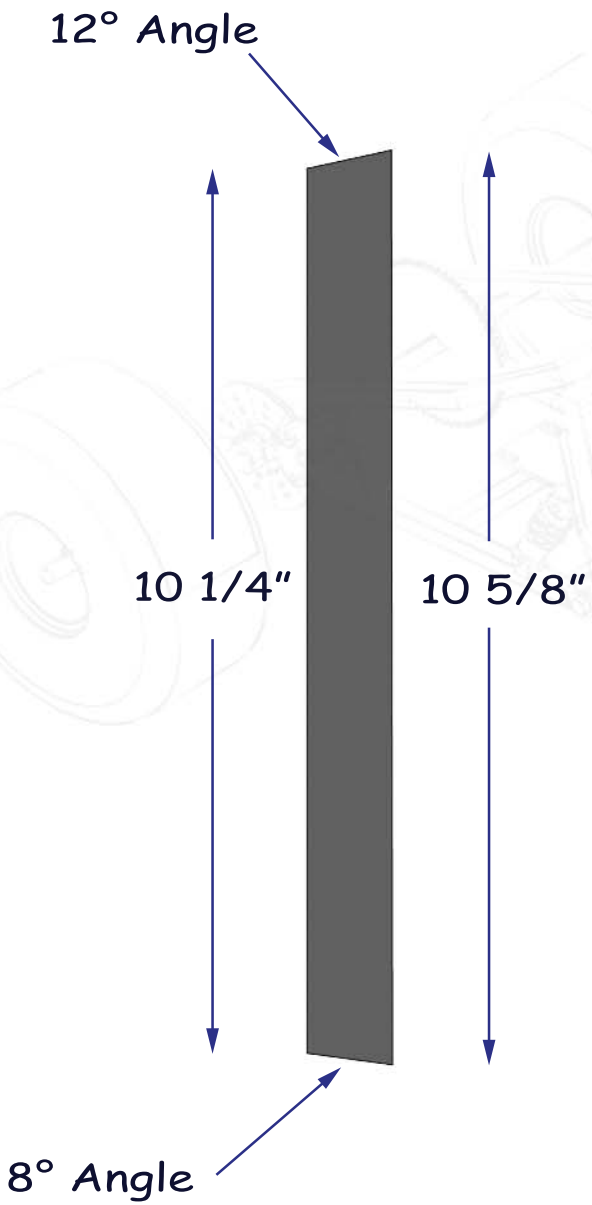
		Parts / TA-0630			Qty-2	



Notes

This is your forward upright supports for the motor cage. Another easy part to make! make a 12° cut, measure 10 5/8" from the high side then make a 8° cut to mirror the first. You should end up with 10 1/4" on the inside as shown to the left.
You will need 2 of these.
Once again use the 1" tubing for this as well.
This is Part Number TA-1020.

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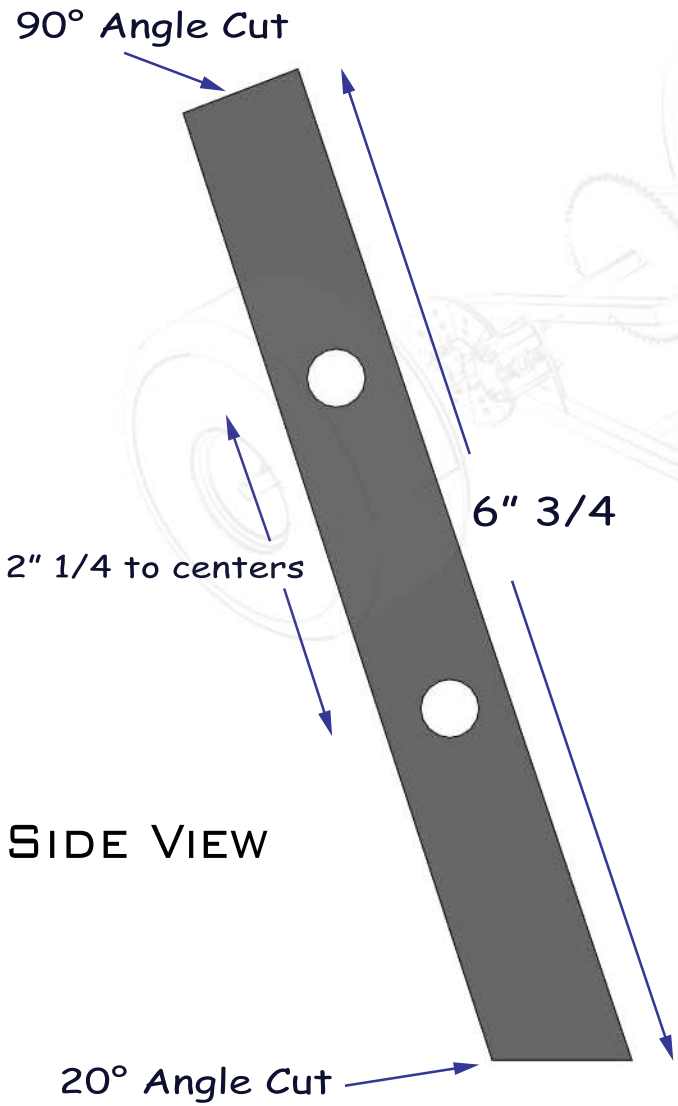
		Parts / TA-1020			Qty-2	

Notes

This will be the bracket for the rear hydraulic brake caliper. Use a section of the 1" x 1/8 flat iron that is in the material list. The long side is 6" 3/4 long with a 90° cut on one side and a 20° cut on the other. The holes are 2" 1/4 to the centers and should be located where your specific brake fits the best. My caliper worked at 2" from the top to the center of the first hole. You will only need one of these.
This is part number TA-RB675



Side View

Iso View

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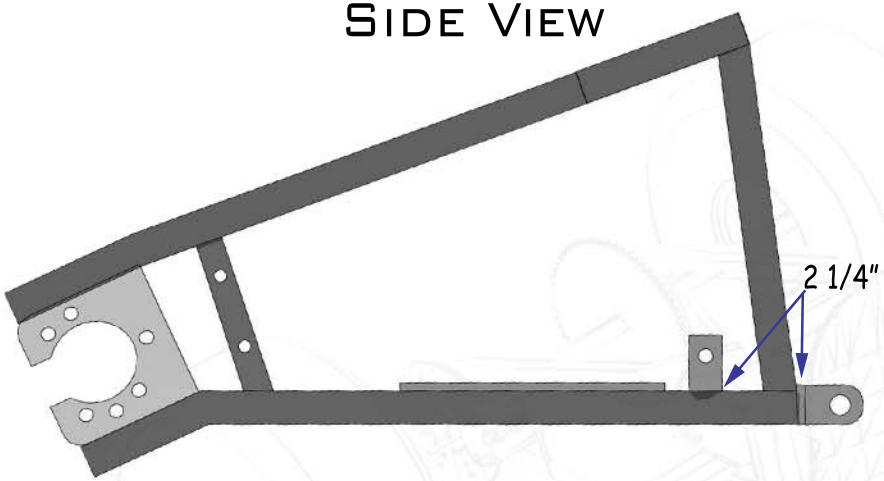
		Parts / TA-RB675			Qty-1	

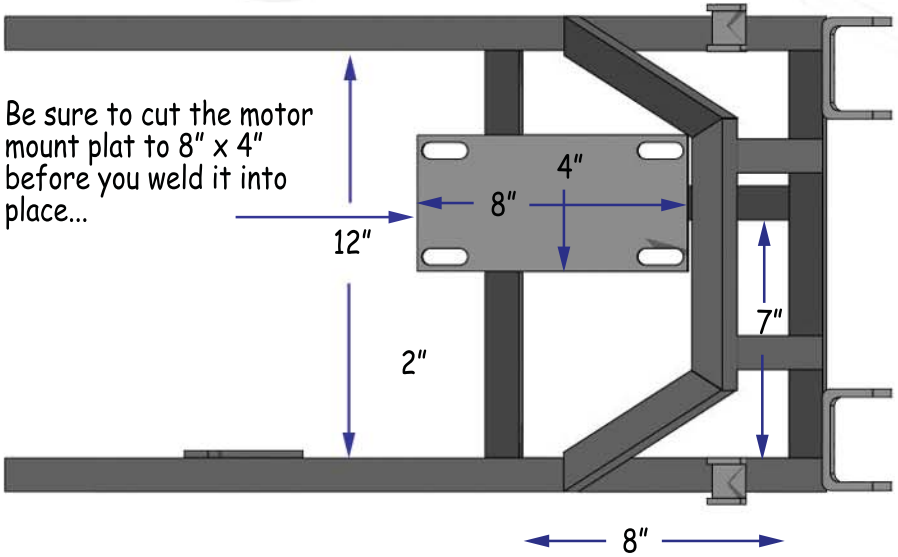
Side View



Start by welding the front TA-1290 between both TA-1804's. Then add in the other TA-1290. Next weld in the bearing hangers TA-400415 to the top and outside of the TA-1804's as shown. Then the TA-18505 and the TA-1020. Make sure all the way that you keep eveything square and straight.

The TA-300805 shock brackets and the TA-411300 spindle brackets and then the TA-400367 motormount plate. Make sure you notice the way the motor mount plate is fit and get it the same so you dont run into space problems when you mount the motor. I cut the Motor mount plate so it ends up being 8" x 4" before you weld it on. I would save the TA-RB675 till you have mounted your hardware and brake disk on the axle to be sure you have the placement and angle correct for the rear caliper then tack weld it into place, remove all your hardware and weld it in for good. The rest of the parts are what we call weldments and are purchased with the rest of your hardware.

Top View



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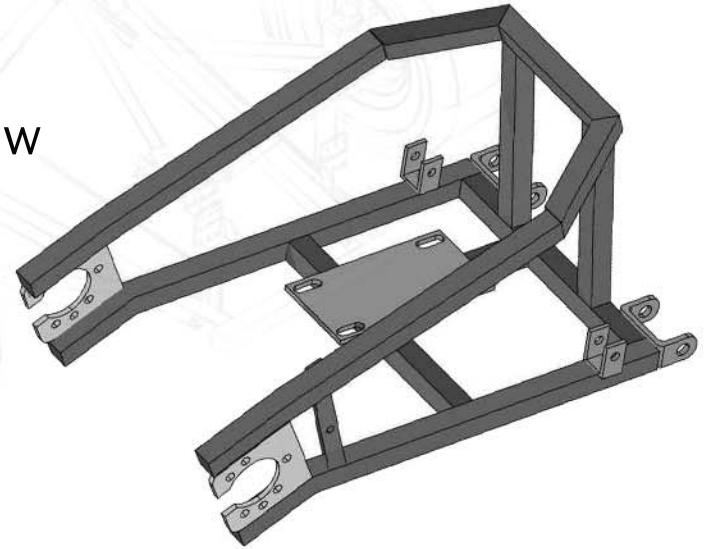

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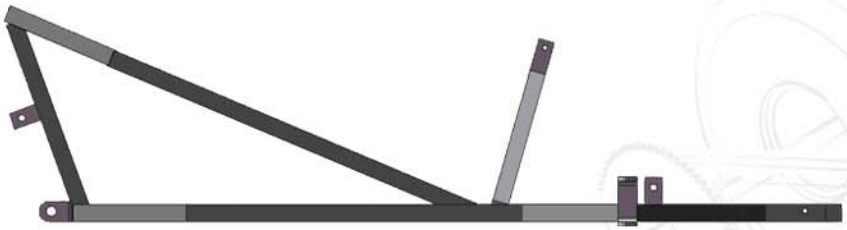
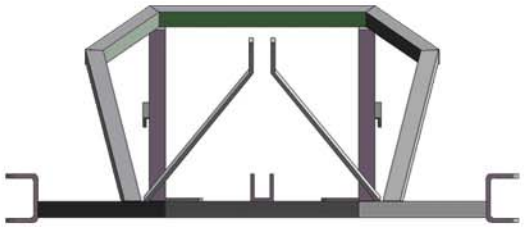
		SUB - MEASURMENTS			QTY-1	

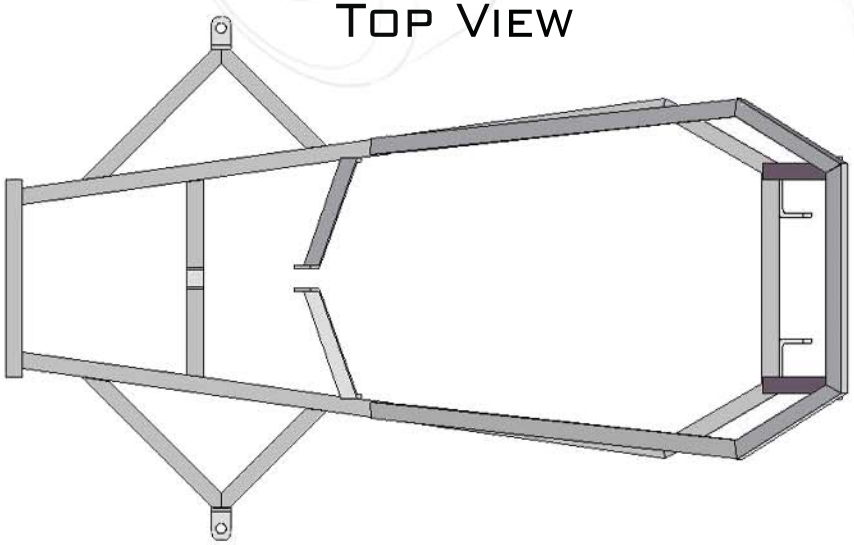
Side View



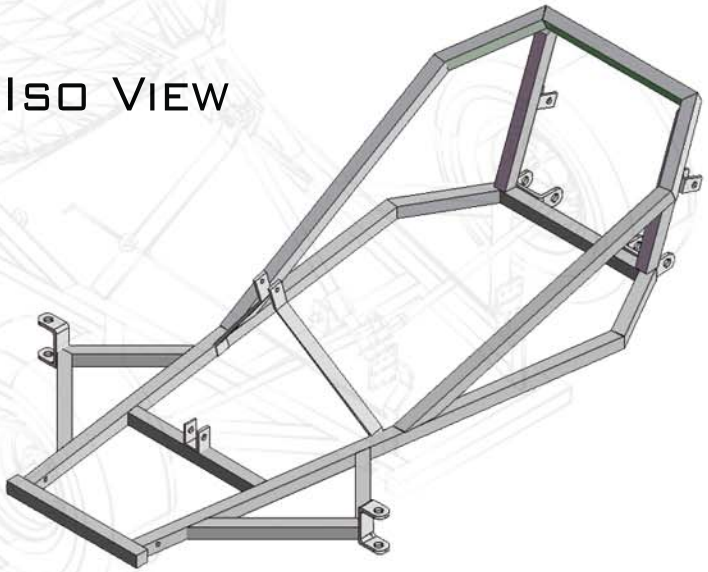
Front View



Top View



Iso View



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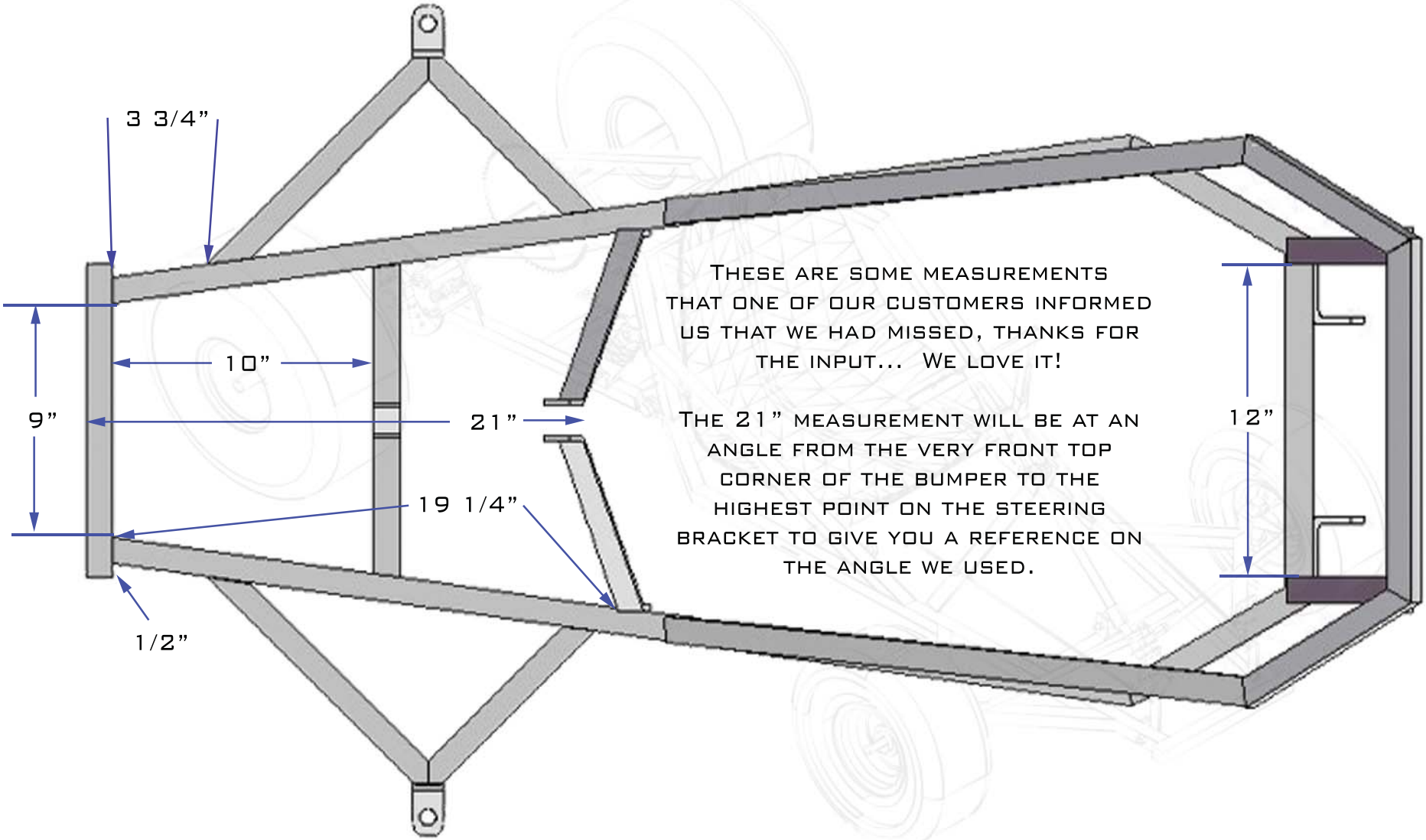
			Authorized	Robert Dicken		
		TA-MAIN-FRAME			QTY-1	

Top View Measurements



These are some measurements that one of our customers informed us that we had missed, thanks for the input... We love it!

The 21” measurement will be at an angle from the very front top corner of the bumper to the highest point on the steering bracket to give you a reference on the angle we used.

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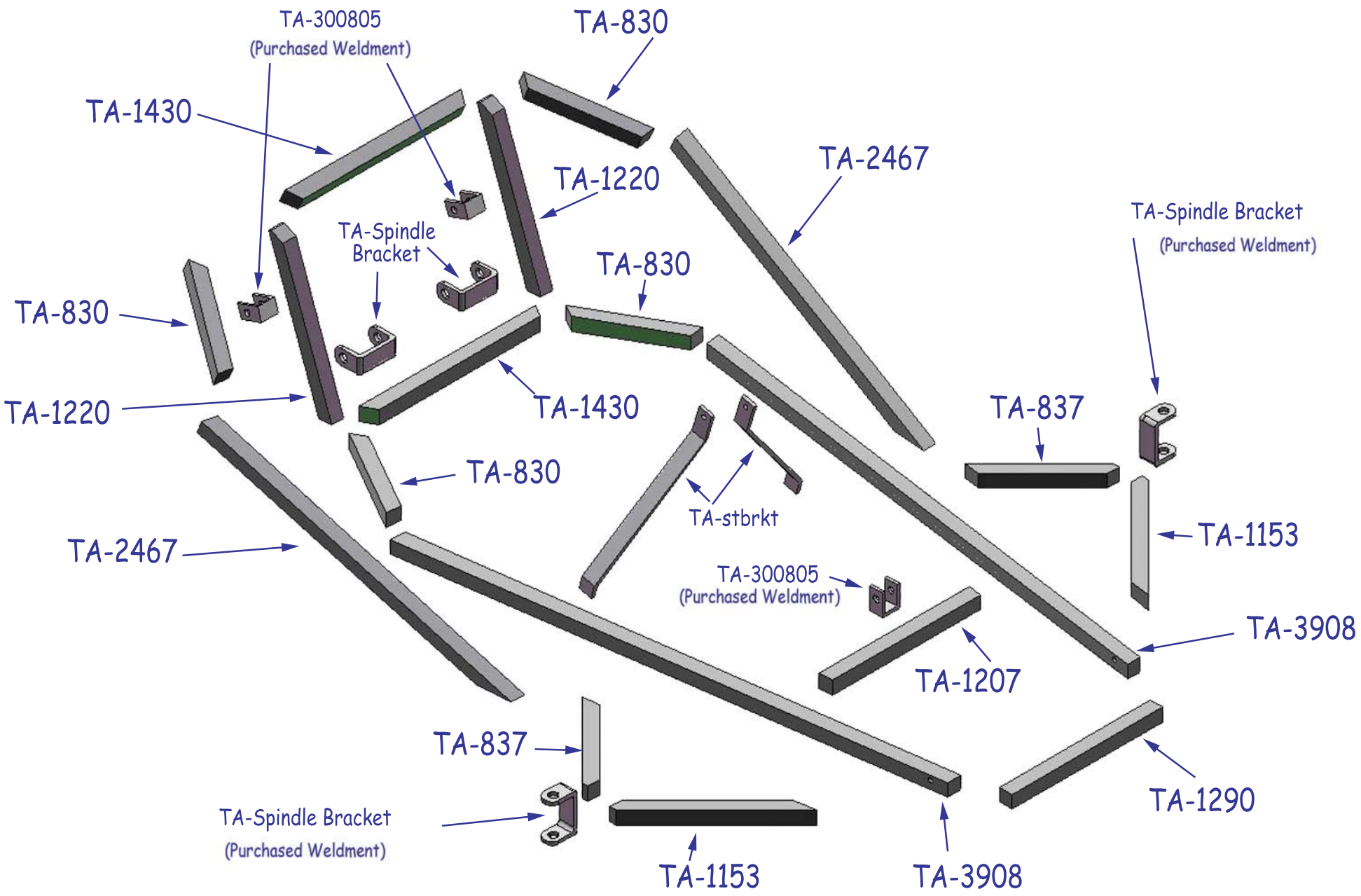
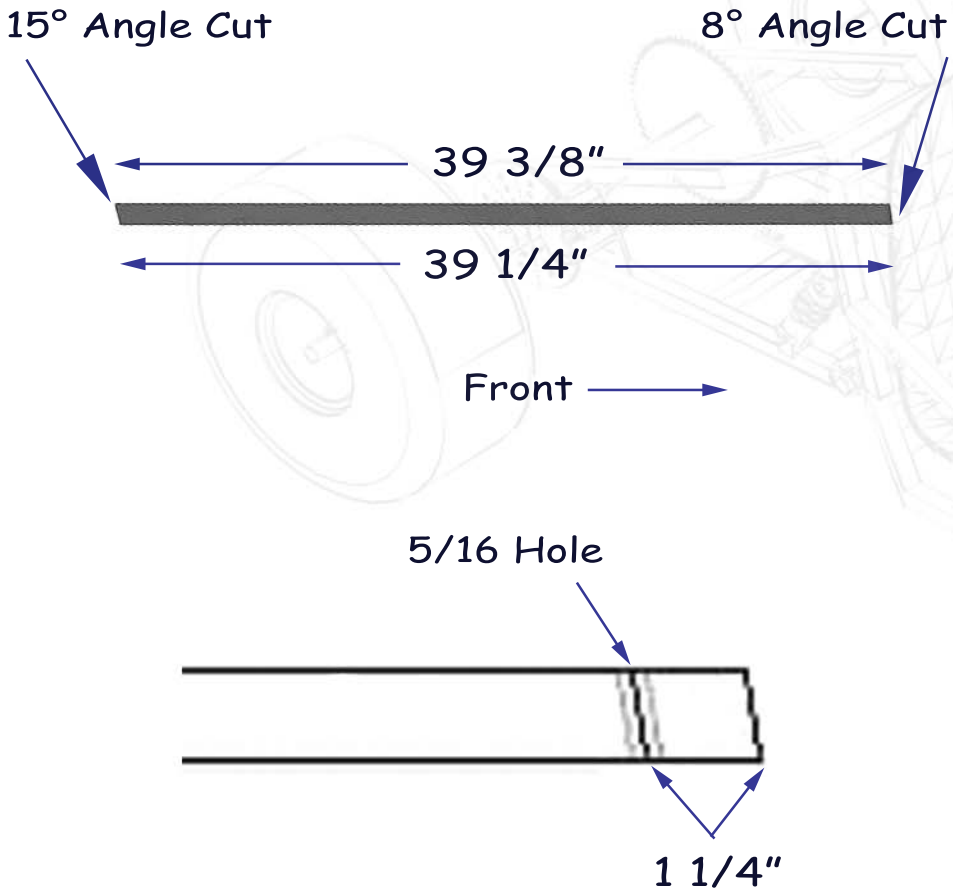
			Authorized	Robert Dicken		
		Main Measurements				



SPIDERCARTS	26		Ver.	0.1.2.6		Copyright is the property of Spidercarts and shall not be reproduced.
			Authorized	Robert Dicken		
		TA-MAIN-EXPLODED			QTY-1	

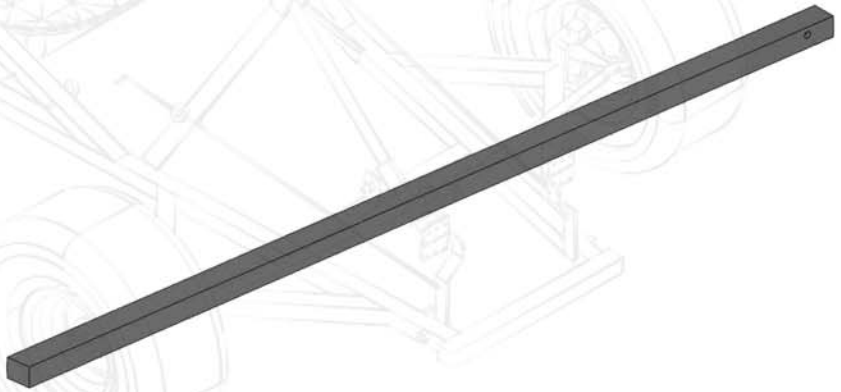
Top View



Notes

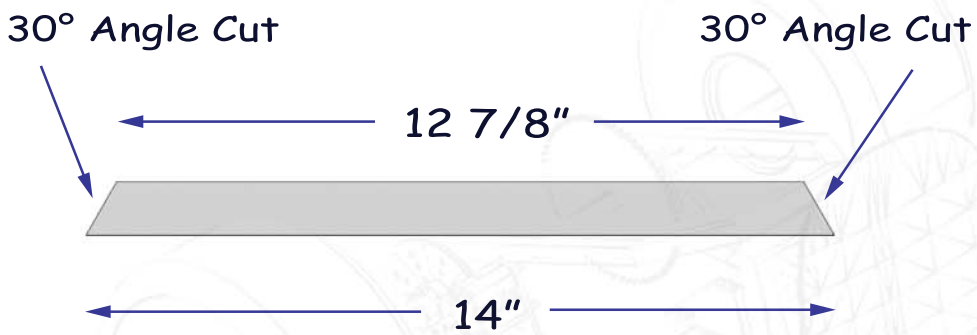
This is our longest part, TA-3908. Take a piece of the 1 x 1 inch square tubing and make a 15° cut at one end. Then measure 39 3/8" down the long side of the tubing and make an 8° cut. You will need a 5/16" hole drilled 1 1/4" from the front end of this piece. Make the hole on an 8° slant like the cut. You will need 2 of these.
This is Part Number TA-3908

Iso View



Spidercarts	30		Ver.	0.1.2.6		
			Authorized	Robert Dicken		
		Parts / TA-3908			Qty-2	

Top View

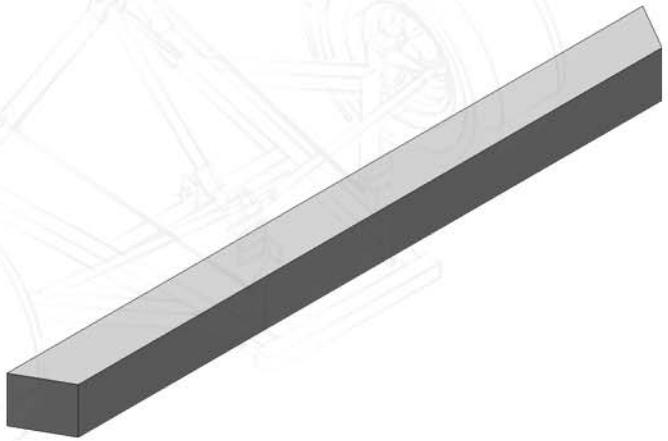


Front View

Notes

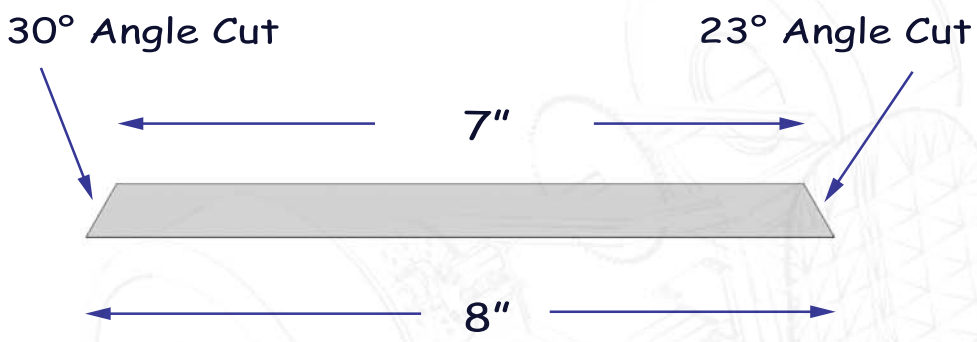
This is an easy one. We will use this for the back of the main frame. Just cut a 30° then measure 14" and cut another 30° but make sure it mirrors the other side. Thats it!
You will need 2 of these.
This is Part Number TA-1430

Iso View



Spidercarts	31		Ver.	0.1.2.6		
			Authorized	Robert Dicken		
		Parts / TA-1430			Qty-2	

Top View

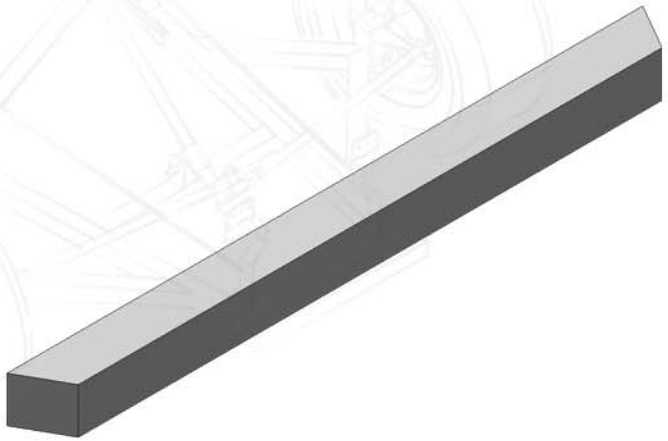


Notes

We will use this for the corners of the main frame. Just cut a 30° then measure 8" and cut a 23° cut. Thats it!
You will need 4 of these.
This is Part Number TA-830

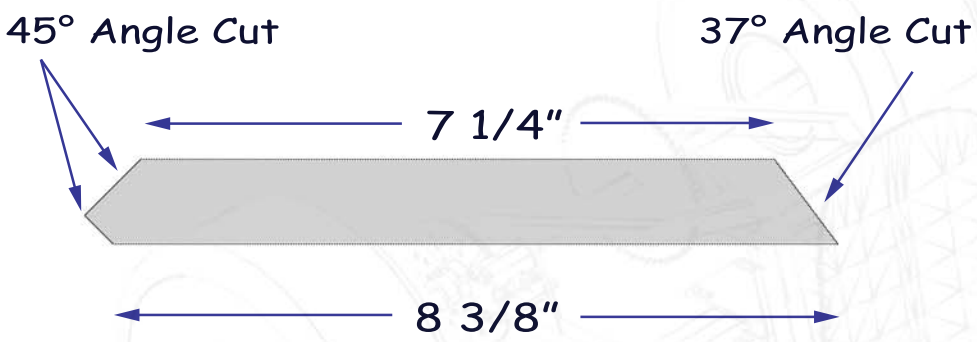
Front View

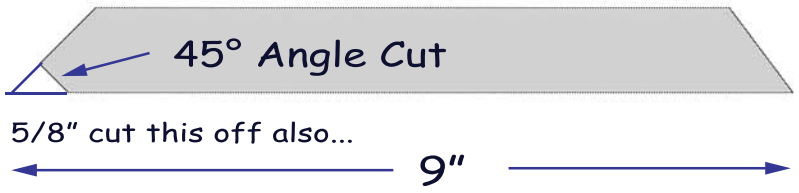
Iso View



Spidercarts	32		Ver.	0.1.2.6		
			Authorized	Robert Dicken		
		Parts / TA-830			Qty-4	

Top View

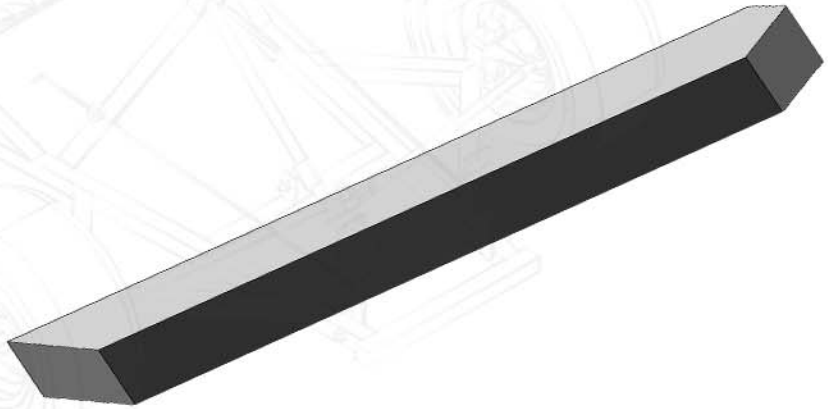




Notes

We will use this for the front end support. This one is a bit tricky but easy once you get what is going on. Just cut a 45° then measure 9" and cut a 37° angle mirroring it. Then go back to your 45° side and at a 45° and 5/8" from the end. That was easy!
You will need 2 of these.
This is Part Number TA-837

Iso View



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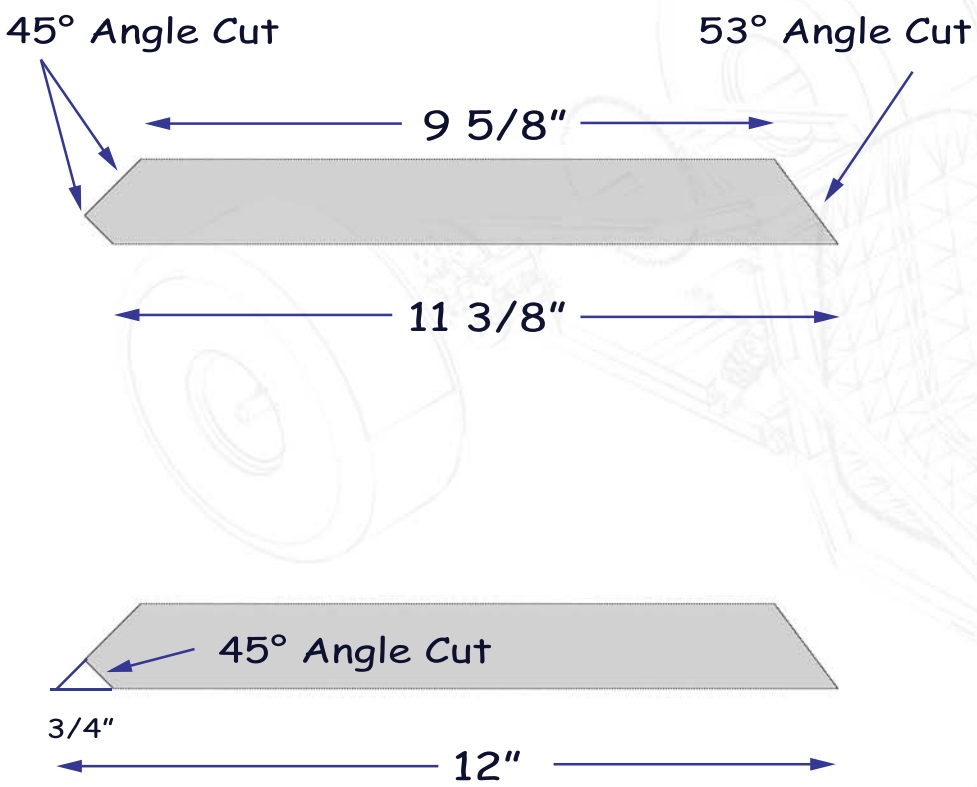
			Authorized	Robert Dicken		
		Parts / TA-837			Qty-2	

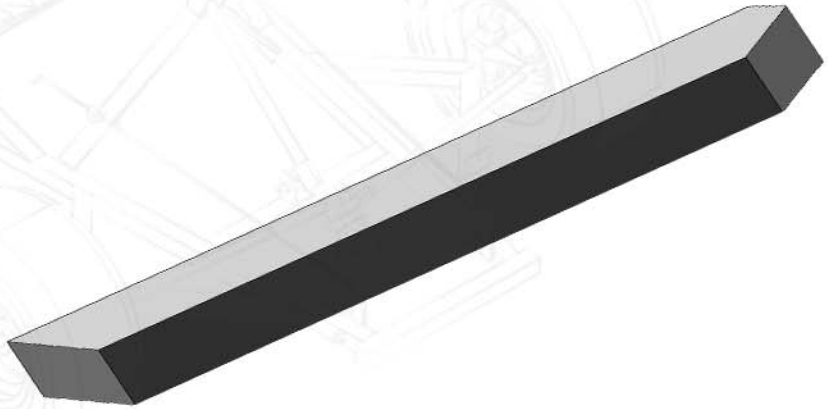
Top View



Notes

This one is almost the same as TA-837. Just cut a 45° then measure 1" and cut a 53° angle mirroring it. Then go back to your 45° side and at a 45° and 3/4" from the end make another cut. That was easy!
You will need 2 of these.
This is Part Number TA-1153

Iso View



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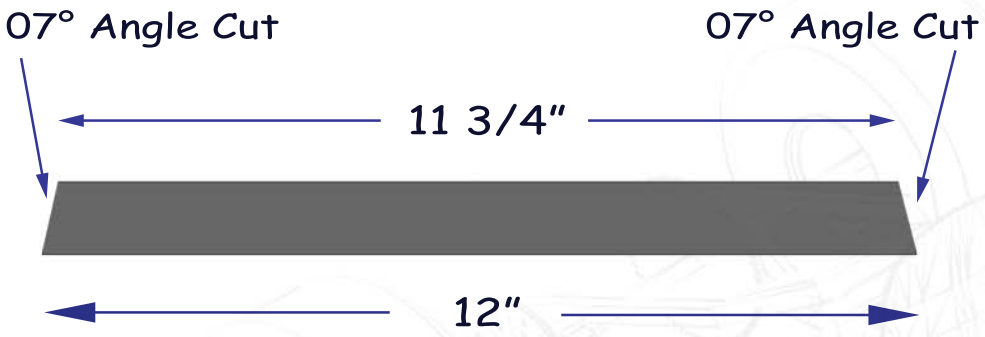
			Authorized	Robert Dicken		
		Parts / TA-1153			Qty-2	

Top View

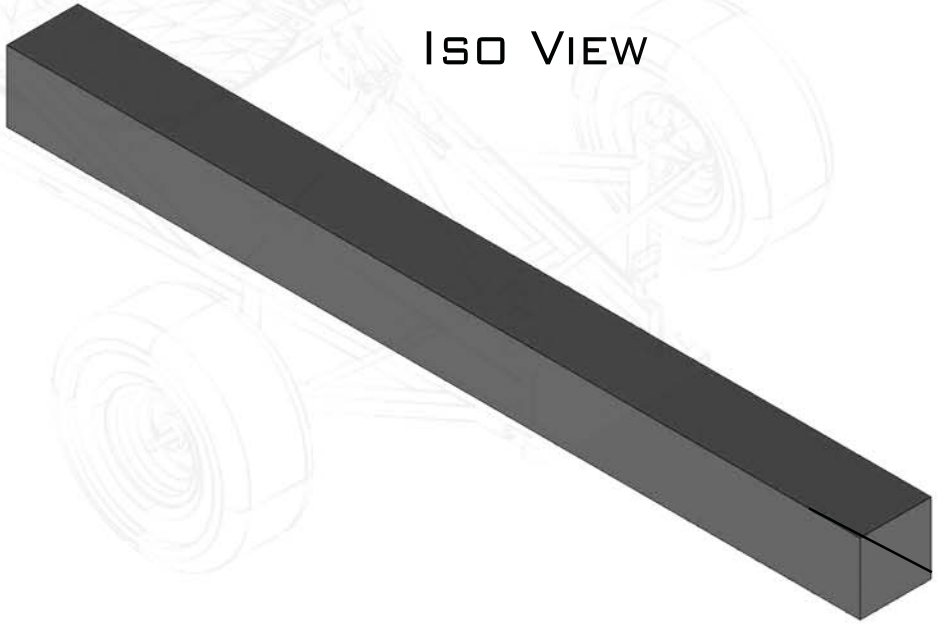


Notes

This is very easy to make, just cut a 07° then measure 12" and cut another 07°. You will need to weld one of the shock mount tabs right on center of this one for mounting the steering shaft later. The lower steering block will fit into this welded tab. Thats it! you will need 1 of these.
This is Part Number TA-1207

Front View

Iso View



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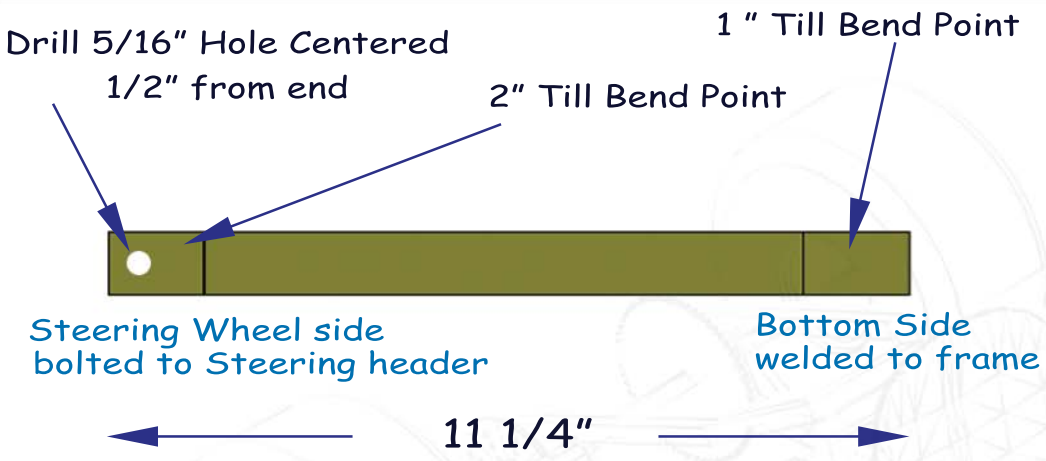
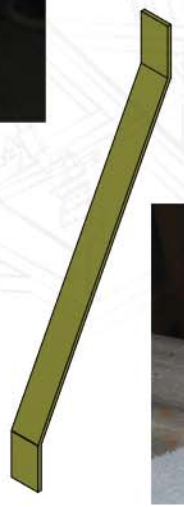
			Authorized	Robert Dicken		
		Parts / TA-1207			Qty-1	

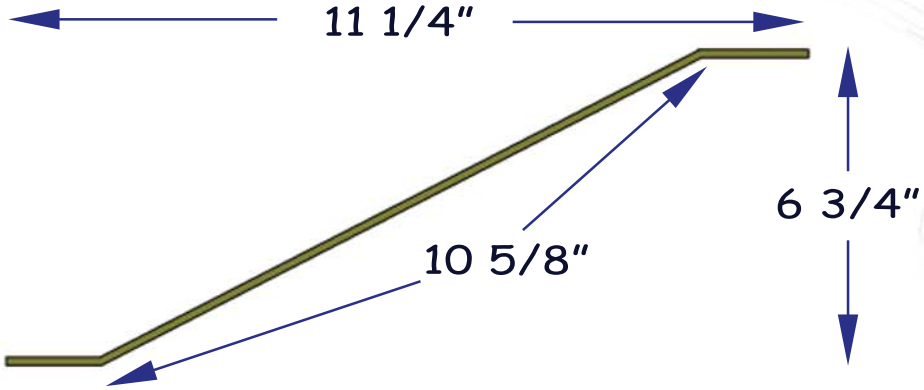


Notes

Strart with a piece of flat iron and cut it 13 1/2" long and 1" wide and at least 3/16" thick. This will take a bit of fabrication and can be changed to fit your needs. I like to measure my points then cut the metal half way through where I need to bend it. After I bend it I run a weld bead where I cut it to give it strength again. Just a tip that works for me. You will need 2 of these. This is Part Number TA-stbkt



Top View



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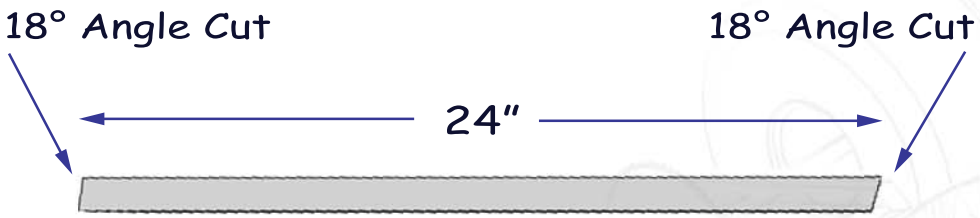
			Authorized	Robert Dicken		
		PARTS / TA-STBKT			QTY-2	

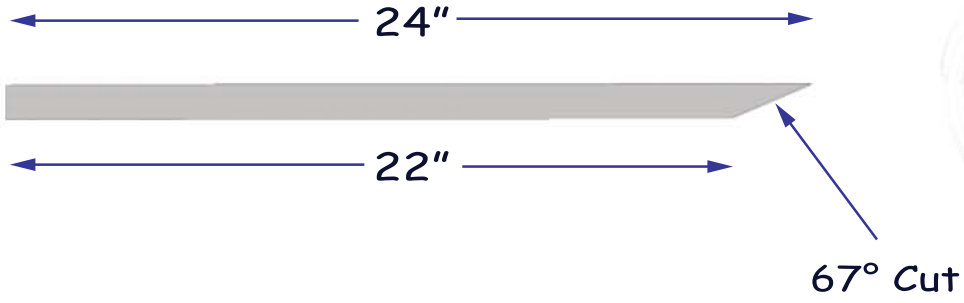
Top View



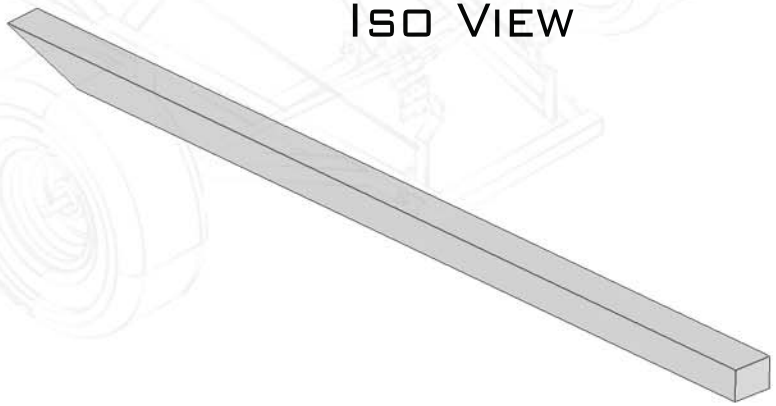
Notes

This is a tricky one as well... So cut an 18° angle then measure 24" and cut another 18° not mirroring the first one but the same way as pictured to the left. Next you need to make a 67° cut from the bottom to the top as shown below. You can use a grinder if needed to get this sharp angle or hand cut it as most chop saws wont do anything over a 45°. These compound angles are very hard to do but if you take your time it will go just fine. You will need 2 of these. This is Part Number TA-2467

Side View



Iso View



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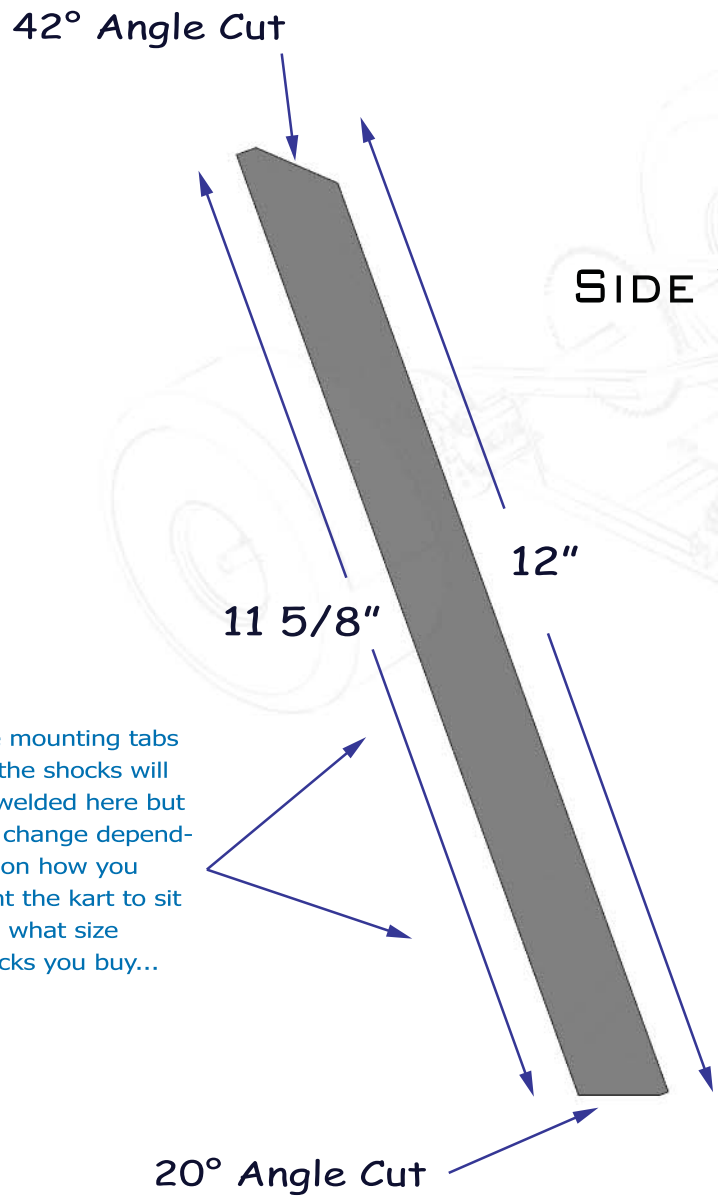
		PARTS / TA-2467			QTY-2	



Side View

The mounting tabs for the shocks will be welded here but will change depending on how you want the kart to sit and what size shocks you buy...

Notes

This is your upright for the back of the frame. The shock mounts also are welded onto this upright. So you will start out with a 12" peice of 1 x 1 and cut a 20° angle inward, then measure 11 1/4" from the long side and then cut a 42° angle you should end with a little flat section on top... You will need 2 of these..
This is part TA-1220

Iso View

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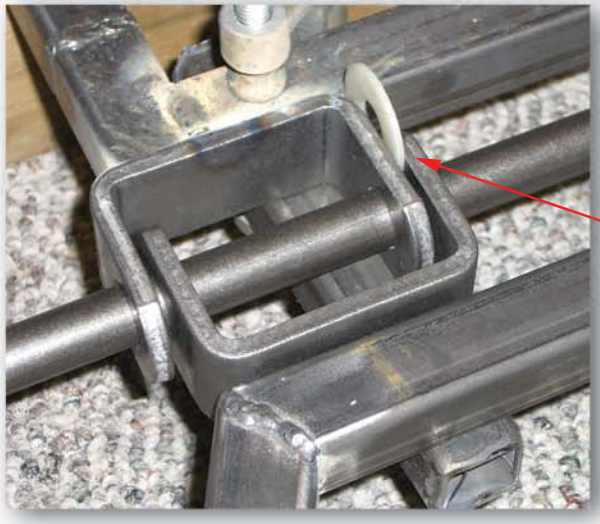
		Parts / TA-1220			Qty-2	

Notes

Setting the Pivot point can be a bit tricky. Using 4 of the Spindle Brackets as your hinges, put your fram on some blocks so it is level then clamp both sides to a sparee piece of metal to keep it firm while you weld. Set everything inplace with a 5/8 metal rod through all 4 brackets to keep them straight while you weld. I would do this step before you add the TA-1220's and the upper sections on the main frame.



I use plastic washers in mine to keep the noise down and keep them from wearing fast. So make sure to put one in the space to allow enough room before you weld...

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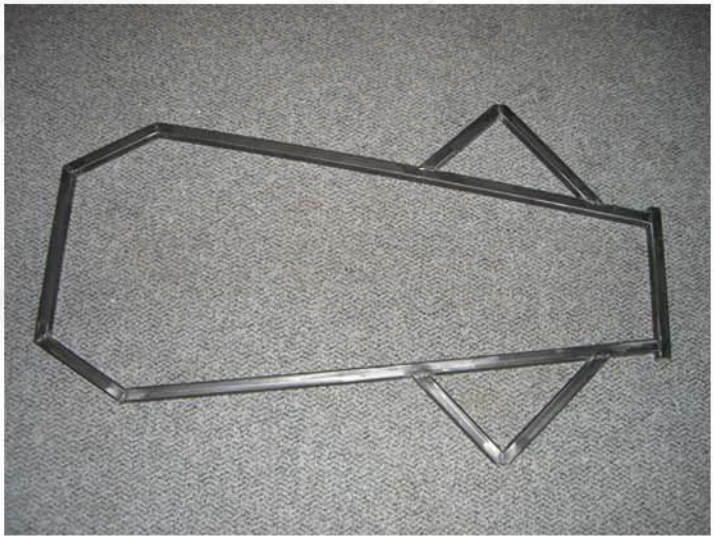
		Parts / Pivot				









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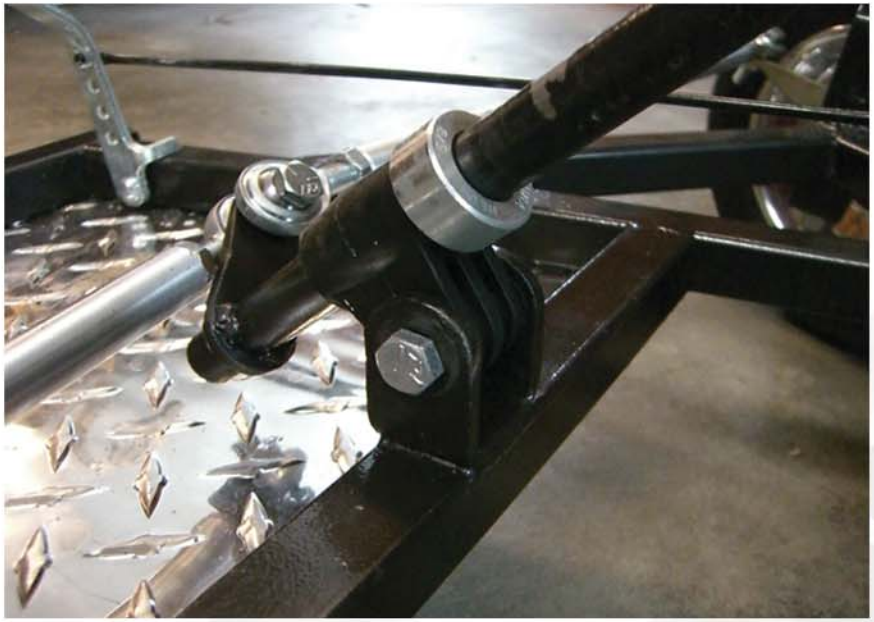
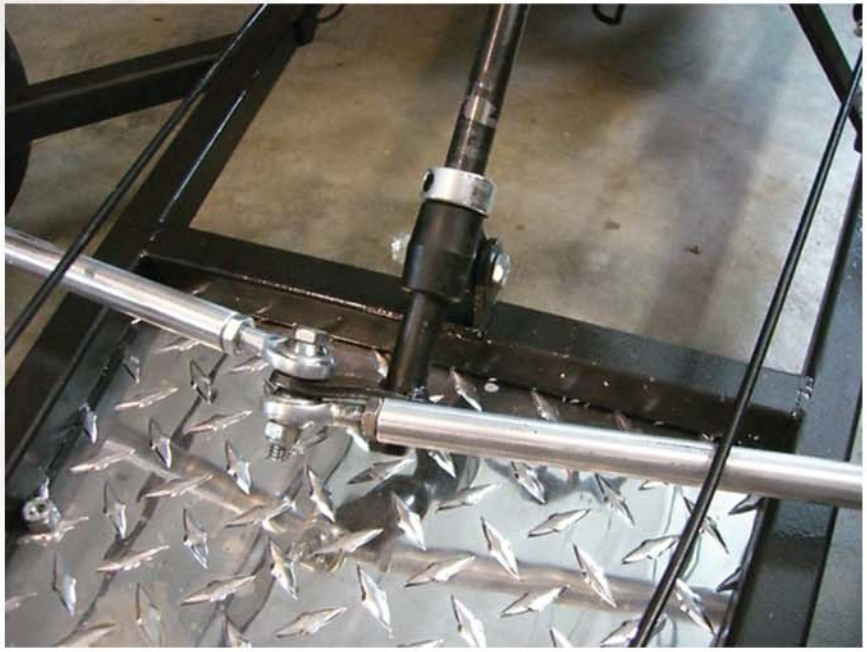
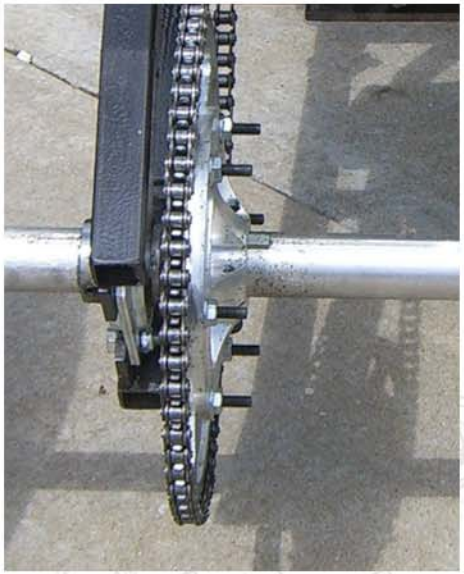
			Authorized	Robert Dicken		
		PARTS / PICTURES 1				





SPIDERCARTS	43		Ver.	0.1.2.6		
			Authorized	Robert Dicken		
		ASSEMBLEY / STEERING				



The order of assembley from left to right is as follows.
All this hardware is being installed on a 1 1/4 live axle

2 Piece 1 1/4" Locking Collar
18" Baloon Tires, Wheel and Wheel Hub
1 1/4" Bearing Hanger (Welded onto the Frame)
1 1/4" Bearing Flangette
1 1/4" Bearing
1 1/4" Bearing Flangette
60 Tooth Sprocker Hub/Sprocket

1 1/4" Bearing Flangette
1 1/4" Bearring
1 1/4" Bearing Flangette
1 1/4" Bearing Hanger (Welded onto the Frame)
1 1/4" Brake Caliper Hub /Brake Caliper
18" Baloon Tires, Wheel and Wheel Hub
2 Piece 1 1/4" Locking Collar

SPIDERCARTS	44		Ver.	0.1.2.6		
			Authorized	Robert Dicken		
		ASSEMBLEY / REAR AXLE				

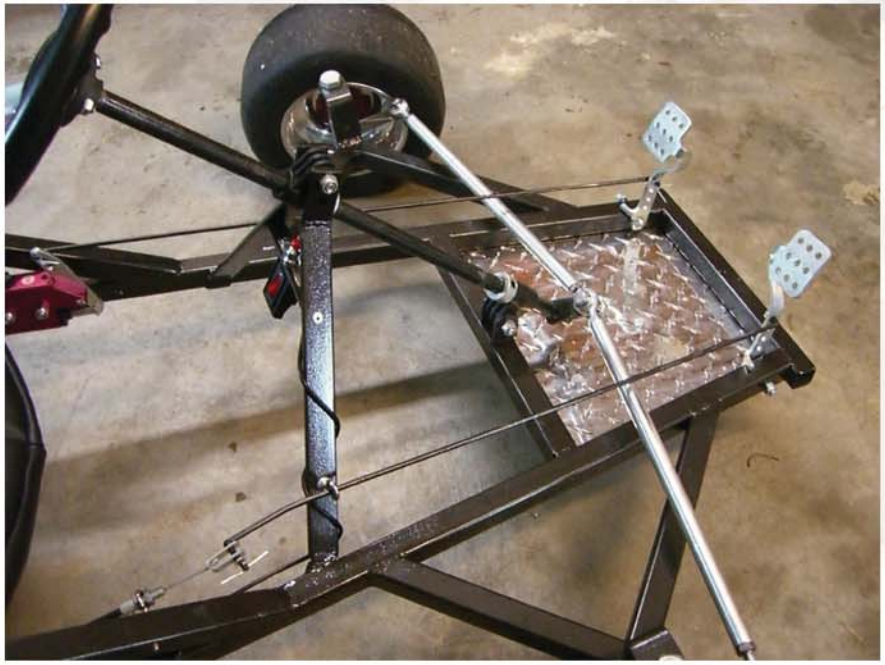
The Hydraulic Brakes and Master are mounted as shown.

I mounted the Master Cylinder just to the left of the seat. Just weld a bracket for it in the little wedge area where the two frame pieces meet. 5/16” bolts hold it into place.

I made my own brake rod. Just use a small gauge steel rod, heat up the ends and bend a 90° in each end and drill a tiny hole for a pin and thats it. When you mount the Master the top hole should be 25 1/2” from the top hole in the brake pedal...

So make your rod 25 1/2” long.

SPIDERCARTS	45		Ver.	0.1.2.6		
			Authorized	Robert Dicken		
		ASSEMBLEY / REAR BRAKE				



These picture wil can just give you an idea of how all the front end hardware will install.

The pedals will go into those 5/16” holes you drilled in the TA-3908...

The control rods pictured are just made from some small gauge steel rod and bent to fit...

The Diamond plate I used for the floor pan can be made out of any material you want... Wood, Expanded metal or this Diamond Plate. Just cut it to fit and weld it in place or use screws or rivets which is what I use to keep it into place as it is just a very clean look...

I also riveted in a small piece of metal between the steering brackets to hold switches and the kill button...

SPIDERCARTS	46		Ver.	0.1.2.6		
			Authorized	Robert Dicken		
		FRONT HARDWARE				

The picture above is just showing what I used to mount the seat. I used the brackets that came with the bucket seat. I just hammered out the curves they had put in the brackets to hang on a frame then cut them to fit my frame and then welded them into place. This may change depending what seat you use...

The pics to the left show how I hooked up the throttle cable.

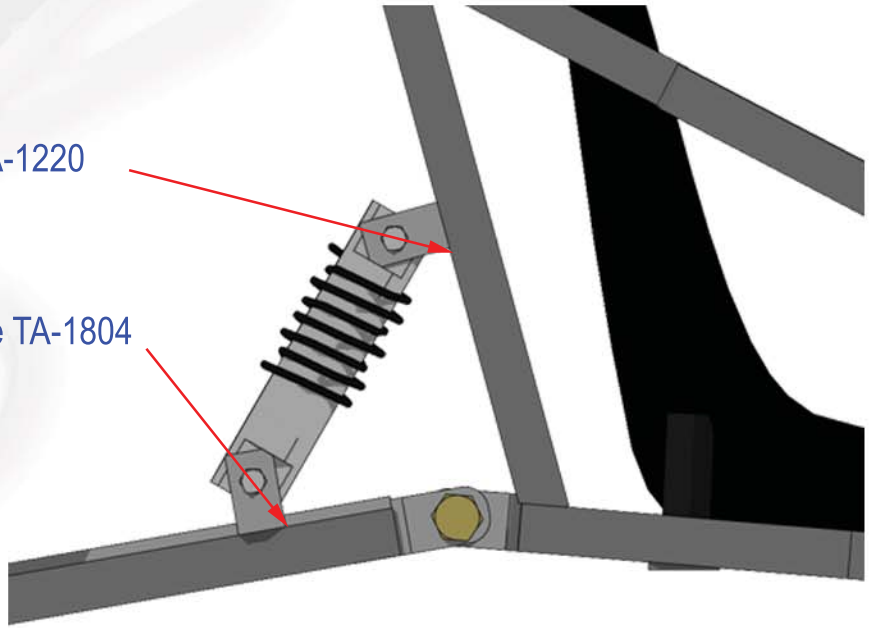
I made a control rod to hook to the pedal as I like the look of having two control rods up front. Then I just drilled two 1/4 inch holes , one in the steering bracket and one in the frame. I then installed two eye bolts. The one in the bracket supports the end of the control rod. The eye bolt in the frame is what I used to attach the end of the throttle cable. Very simple and works great for me....

SPIDERCARTS	47		Ver.	0.1.2.6		
			Authorized	Robert Dicken		
		THROTTLE / SEAT				

The Shock mount tabs should be welded onto the frame with the inside of the shock mount flush with the inside of the frame. When you do this the shock mount will extend a little bit out from the frame as shown. But more important is that they are aligned with each other. So the TA-1220 should be right inline with the TA-1804 to make this easier for you when you get to this part...

So the tabs will hang off to the outside just a bit. They should NOT be centered on the frame...

Note:
These Measurements might change if you use different shocks than I have used. Just look at the measurement of your centers on the shocks you are using and adjust this accordingly. This distance will also change how much the pivot is rotated. So if you want it to be a bit more agressive you can move these a bit close to kick it up a little. But remember a little bit goes a long way here....



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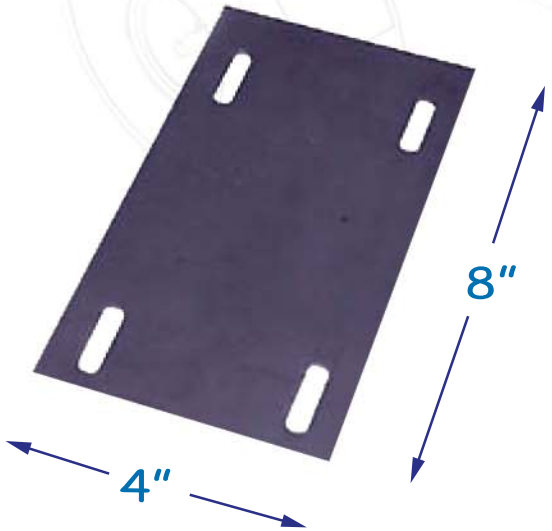
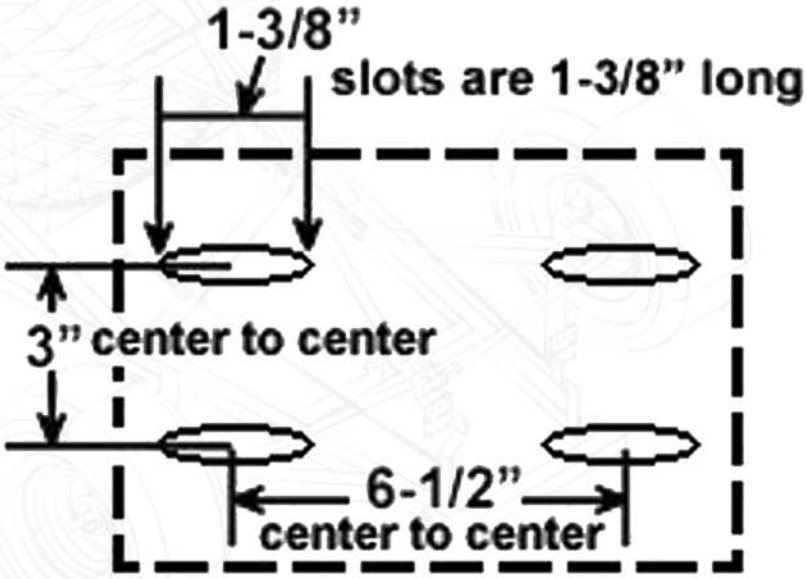
			Authorized	Robert Dicken		
		SHOCKS				

Motor Mount Plate

An engine mounting plate that allows the engine to be moved back and forth to remove the slack from the chain is needed. Most engines use the same mounting hole pattern. If you are going to make your own, follow the pattern shown in.

You'll need a way to cut the holes in the plate. A jig saw with a metal blade would work. Some have drilled lots of holes and then used files to cut away the rest of the material. A cutting torch would work as well. But buying the plate is often cheaper and much less of a pain. We purchased an 8" x 4" x 1/4" piece of metal in 2005 for $9 locally. A parts house was selling a mounting plate for $7 with pre-cut, pretty holes. If you buy one of the 5 x 12 plates you will need to cut it to measure 8" long by 4" wide for this project.





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			Authorized	Robert Dicken		
		MOTOR MOUNT PLATE			Qty - 1	

Spindle Brackets

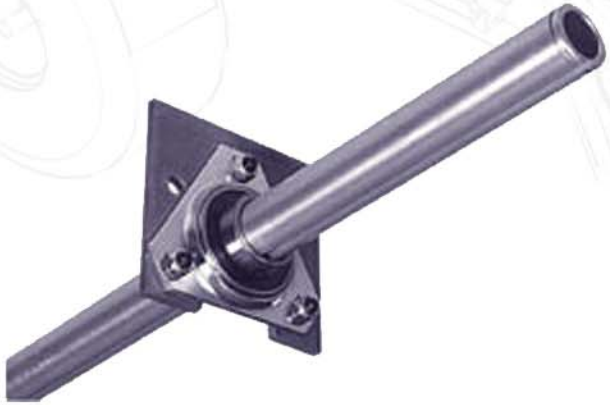
This is another weldment. The spindles are what you attach your front wheels to and the spindle brackets hold the spindles. These are also very cheap to buy as a kit. I would suggest just buying them from a supplier. You can get the entire set for under $40.00.

you can purchase Spindle brackets that are longer and have springs included with them if you would rather... Not really much of a shock but it looks kinda cool!

Spidercarts	50		Ver.	0.1.2.6		
			Authorized	Robert Dicken		
		Spindles / TA-411300			Qty - 6	

Bearing Hangers

The bearing hangers are so cheap I would suggest just buying them from a supplier. You can get the entire set with the bearings, hangers, and hardware for under $50.00. The hangers are what we call a weldment and get welded directly onto the frame. Then the bearings and hardware bolt right on to the hanger... For this project you will need to buy or make hangers to support 1”1/4 bearings.



Spidercarts	51		Ver.	0.1.2.6		Copyright is the property of Spidercarts and shall not be reproduced.
			Authorized	Robert Dicken		
		Hangers / TA-400415			Qty - 2	

Tarantula Parts List

These parts are listed as reference only!

Please make sure the parts you purchase are the ones you need to fit your project as parts and prices may have changed.

Qty	Item	Price	Total	Vendor
2	18" Balloon Tire/Rim Assembly	$42.95	$85.90	
2	14" Balloon Tire with Rim	$29.99	$59.98	
2	4 x 4 Billet Aluminum Hub	$30.00	$60.00	
1	Billet Aluminum Sprocket Hub 1 1/4" With Bolts	$27.95	$27.95	
			$0.00	
2	2 Piece Billet Aluminum Locking Collar 1 1/4"	$5.00	$10.00	
1	Kill Switch	$3.00	$3.00	
1	Spindle Set	$32.95	$32.95	
4	Spindle Bracket	$3.50	$14.00	
2	Foot Pedals	$5.95	$11.90	
1	1 1/4" Bearing Kit	$24.95	$24.95	
6	Shock Mounting Tab	$5.00	$30.00	
			$0.00	
1	Go Kart Bucket Seat	$84.95	$84.95	
1	1 1/4" Hydraulic Brake Kit	$179.95	$179.95	
2	Plastic Steering Block - Lower	$3.00	$6.00	
1	Master Cylinder Frame Bracket	$9.95	$9.95	
1	Steering Wheel 10"	$21.99	$21.99	
1	Motor Mount 12" x 5"	$5.95	$5.95	
1	Keystock	$1.45	$1.45	
1	1 1/4" Billet Aluminum Live Axle 40”	$45.00	$45.00	
5	Chain $2.00/ft. x 5ft.	$2.00	$10.00	
1	Steering Shaft Kit 25" (Cut to 22")	$13.95	$13.95	
1	Sprocket #41 60T	$17.95	$17.95	
2	13" Tie Rod Kits - Racing 3/8	$13.95	$27.90	
2	6-7/8" 750 lbs. Shock SHK-678	$16.95	$33.90	Electric Scooter Parts.com
1	Comet Torque Converter #40/41 with 3/4" Bore	$144.95	$144.95	
1	Tecumseh 6hp Horizontal	$190.00	$190.00	Small Engine Warehouse
	Total		$1,154.52	

All parts are just suggestions... you can replace any of these parts with your own ideas...
All prices are estimates and are subject to change depending on who you buy them from...

Tarantula Go-Kart Frame

www.spidercarts.com

Online Resources

Here are some of the best place we have found to get the parts needed to finish your kart. All of the parts needed can be purchased from these locations...

www.bmikarts.com

www.gokartsupply.com

www.mfgsupply.com

www.jackssmallengines.com

www.gokartnminibikeparts.com

Revised: 02/23/08..

Thank you for your business.

I hope you have found these plans to be helpful and complete.

Building go karts can be a very rewarding hobby.

As always please use caution when riding your new go kart and be safe.

Please check back with our website as we are always adding new products.

TaranTula

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				Authorized	Robert Dicken		
			THANK YOU				