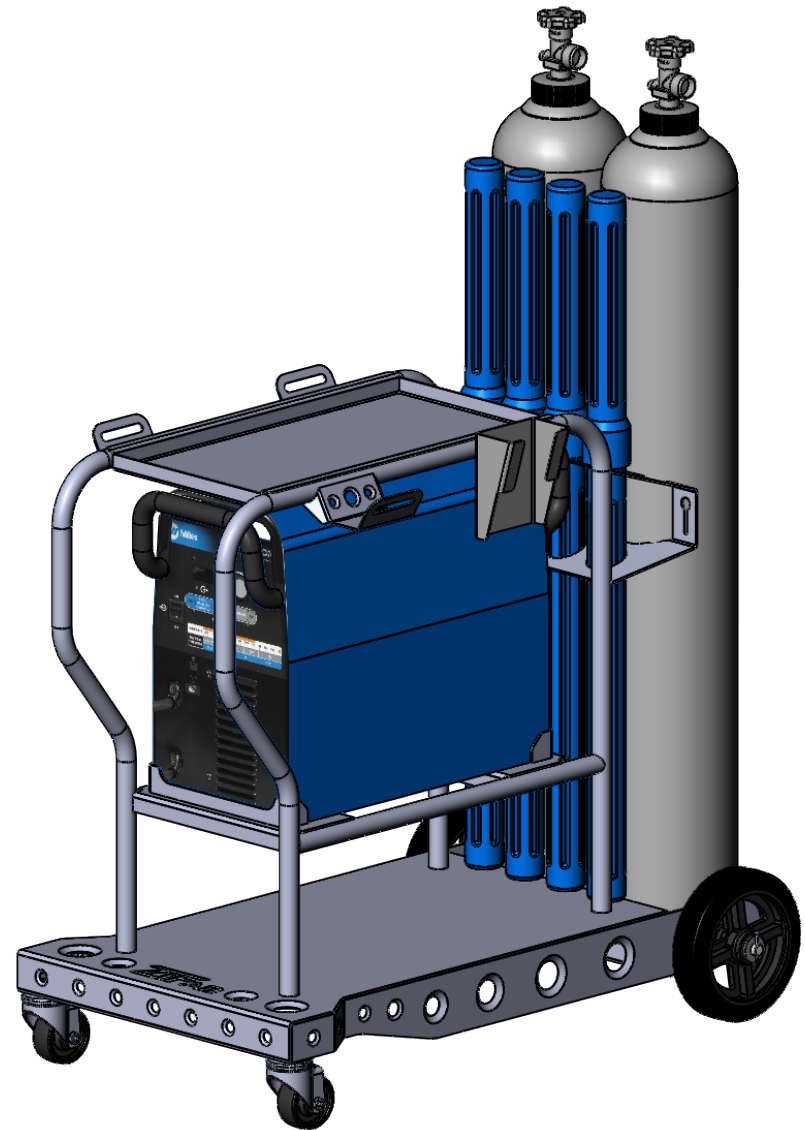


Miller Diversion Welding Cart Instructions.

Please read these instructions thoroughly before welding your cart. If you need further instruction you can download the 3D models by visiting the "Instructions and 3D models" page on All-a-cart.com

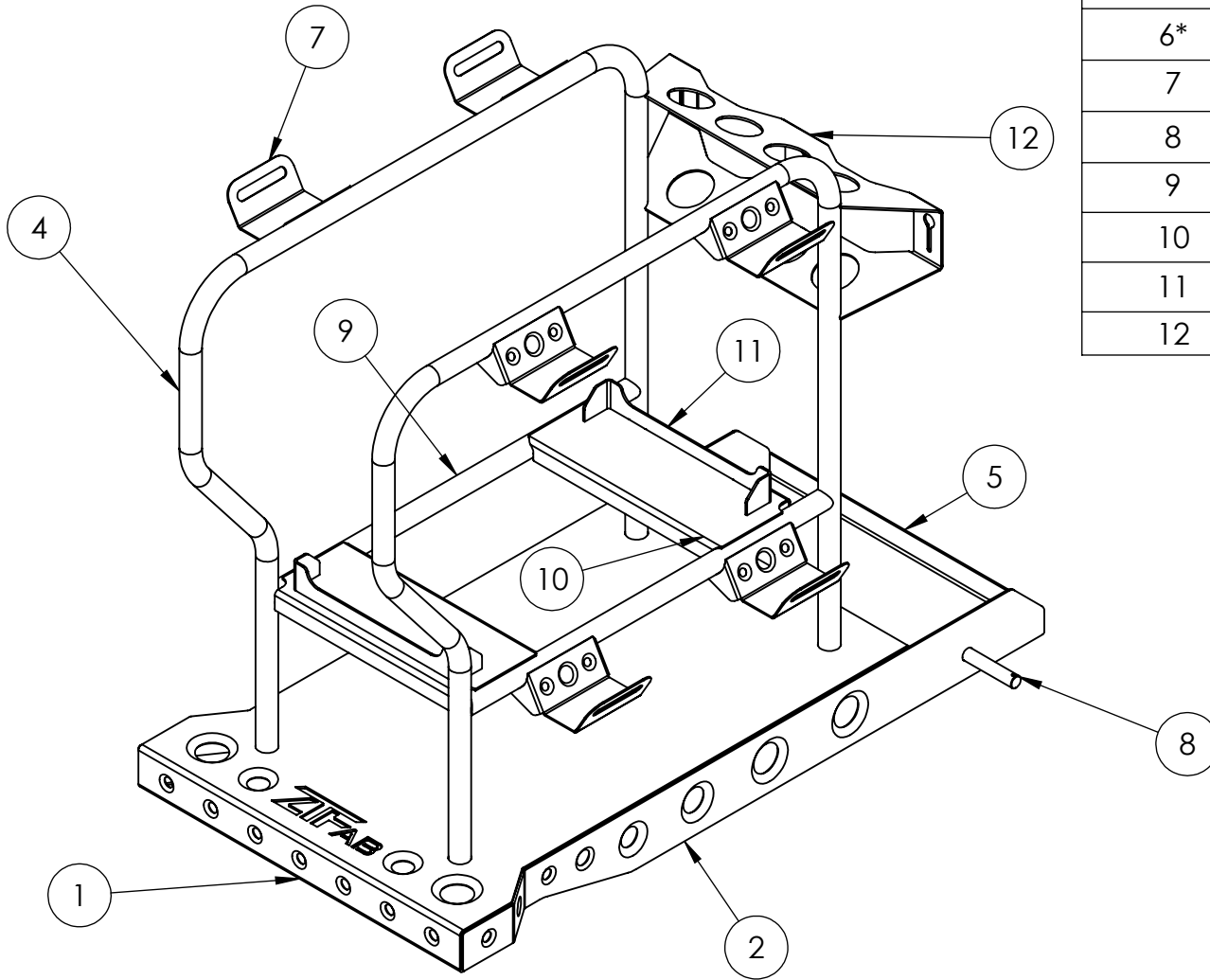
Proper PPE is recommended at all times. Safety glasses, gloves, hearing protection, and/or a welding helmet when necessary. Sheet metal edges may be sharp. Handle with caution.



*optional Accessories shown

ITEM NO.	PART	Standard QTY
1	WC-Base	1
2	WC-Sides	2
4	WC-Handle Tube	2
5	WC-Bottle Base	1
6*	WC-Axle Bracket	1
7	WC-Cord Hangers	2
8	WC-Axle Shaft	2
9	WC-Accessory Tubes	2
10	Machine Mounts	2
11	Machine U-Brackets	2
12	WC-Bottle Bracket	1

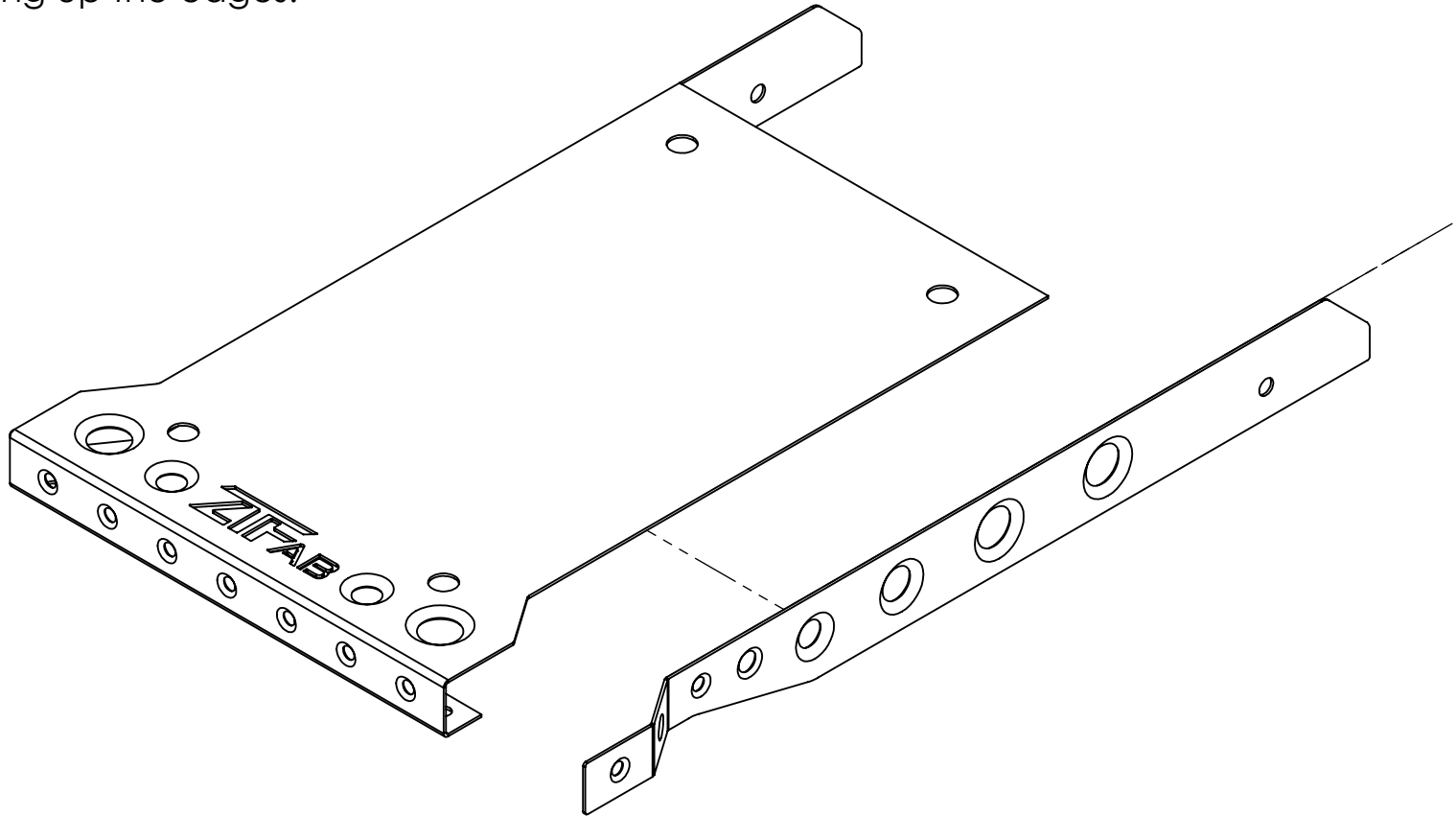
*part not shown



NOTE: For optimal results it is recommended that all areas requiring welding be cleaned by lightly sanding with sand paper or scotch brite pads. Clean, shiny metal welds the best.

Step 1: Base Sides

Position Side plates onto cart base.
A square or 90* corner magnets will help in lining up the edges.

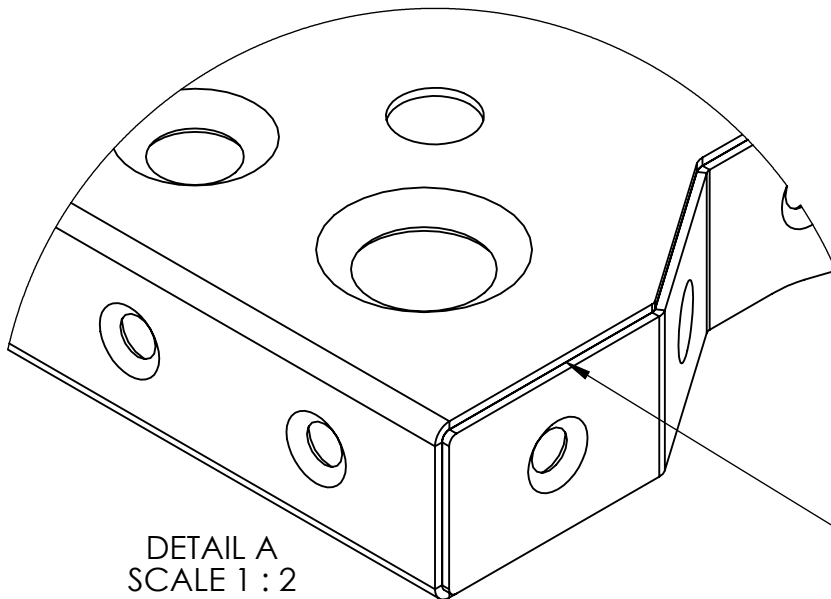
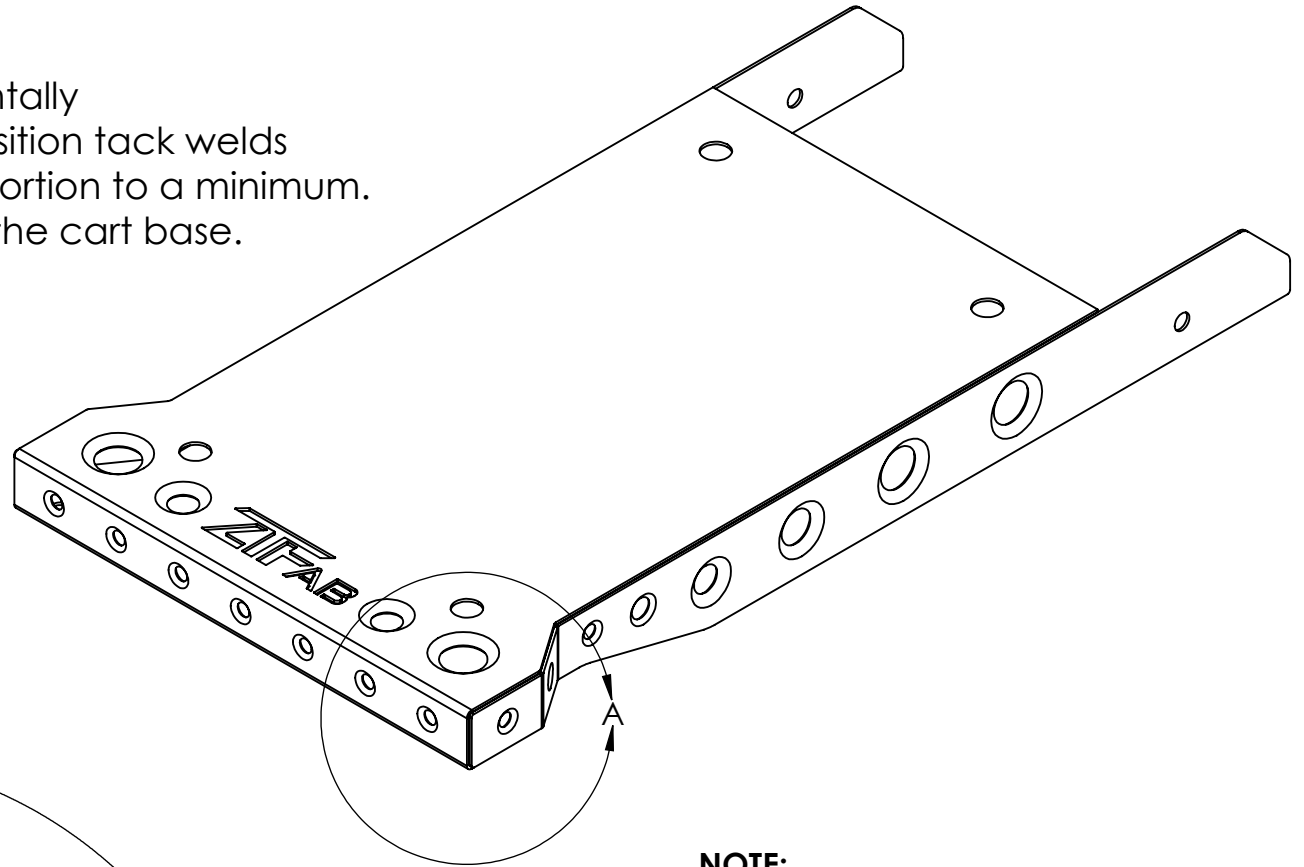


Note:

Lightly Sand all edges that need to be welded for best quality. Being careful not to remove excessive material.

Step 1A:

Tack weld sides to base incrementally to ensure proper corner fit-up. Position tack welds every 2-3 inches to help keep distortion to a minimum. Sides should be 90* to the top of the cart base.



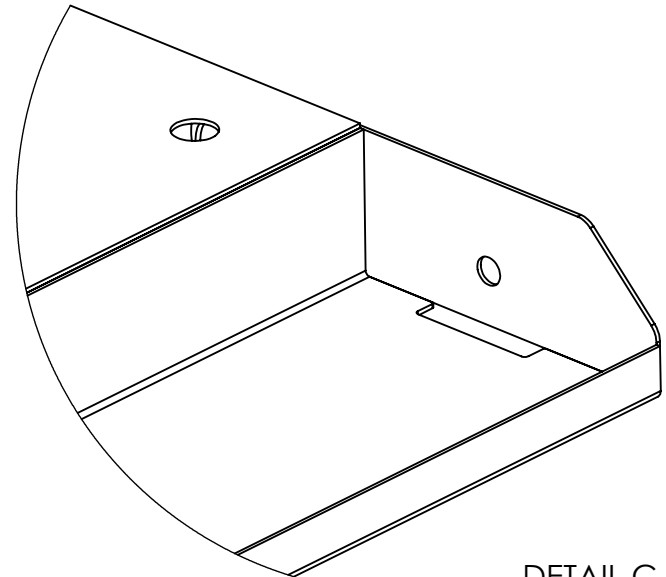
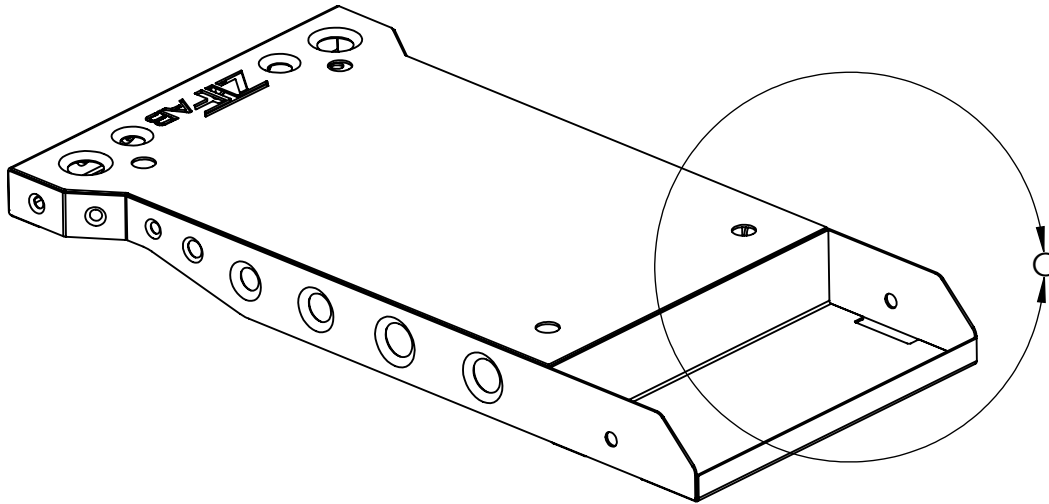
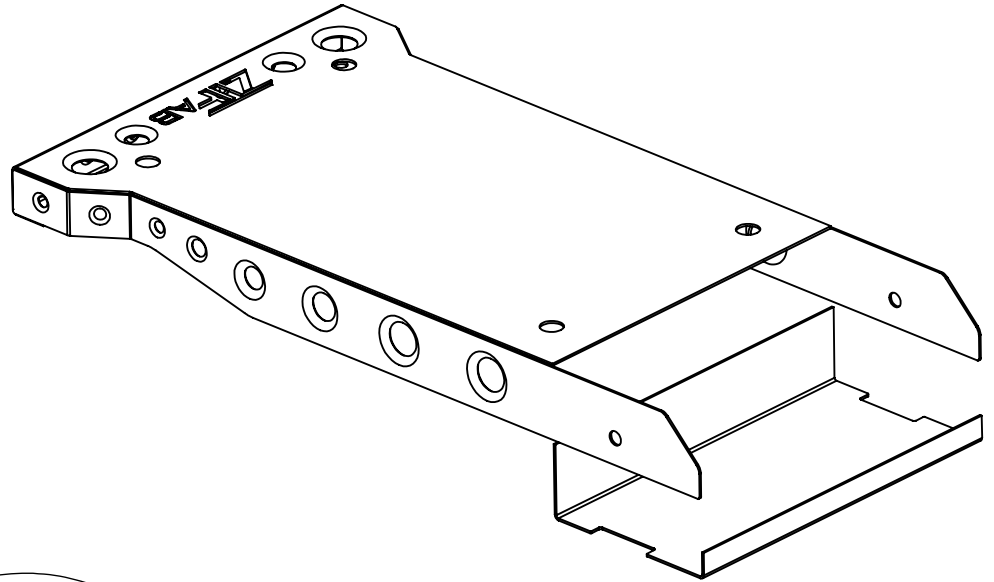
DETAIL A
SCALE 1 : 2

NOTE:
Due to the Dimple Die Forming of the side panels they may be slightly curved. It may be easiest to start with the front corner, position and tack weld it first, then use a large clamp or clamps and work your way to the back, aligning, fitting, and tacking along the way.

Fit-up should be an "Open Corner" joint.

Step 2: Bottle Base

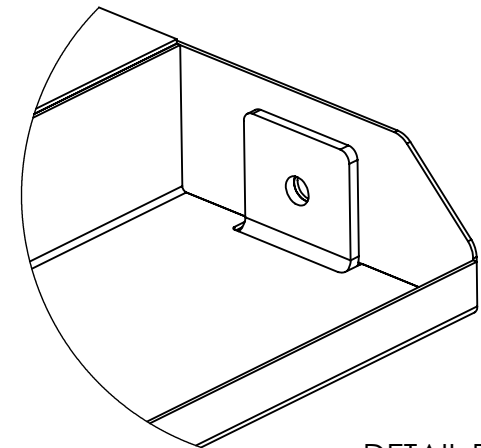
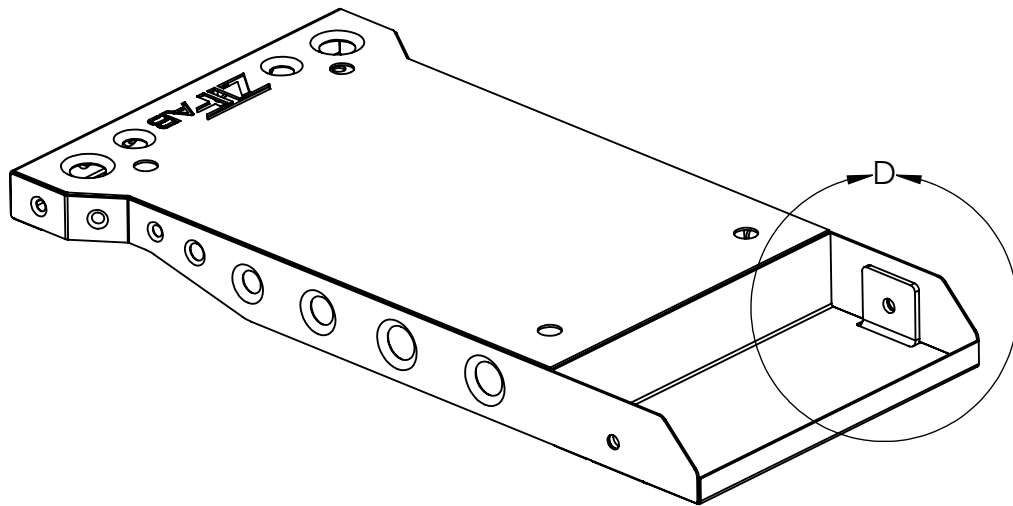
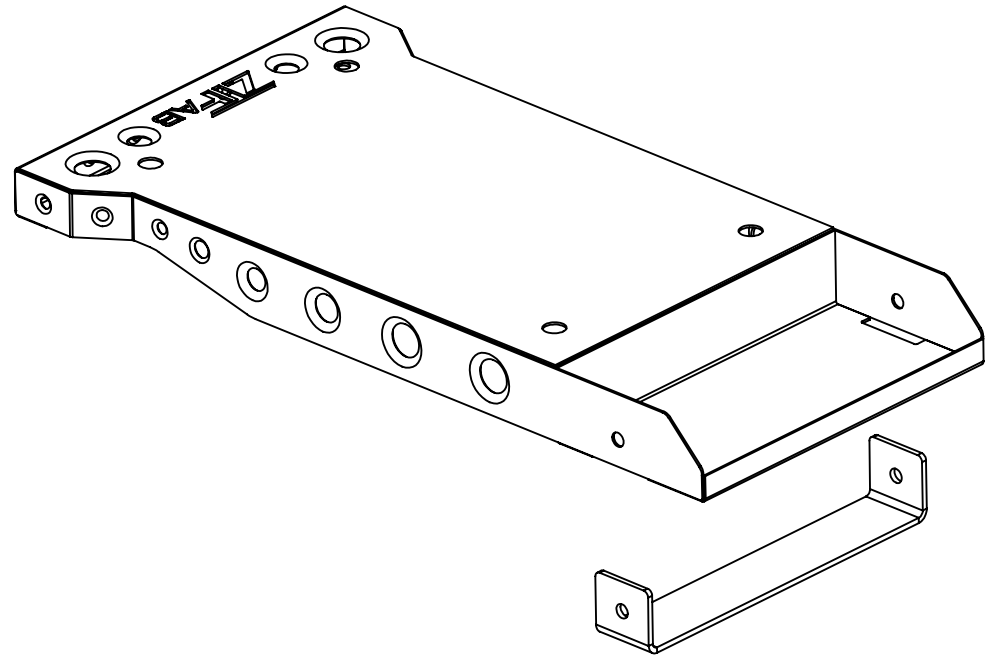
Fit Bottle Base to sides and cart base.
Tack weld once properly fit-up.



DETAIL C
SCALE 1 : 4

Step 3: Axle Bracket

Position the axle bracket into the slots of the bottle base. Align the axle holes and tack weld into place.
TIP: Use the axle shafts or some bolts to keep the holes aligned.

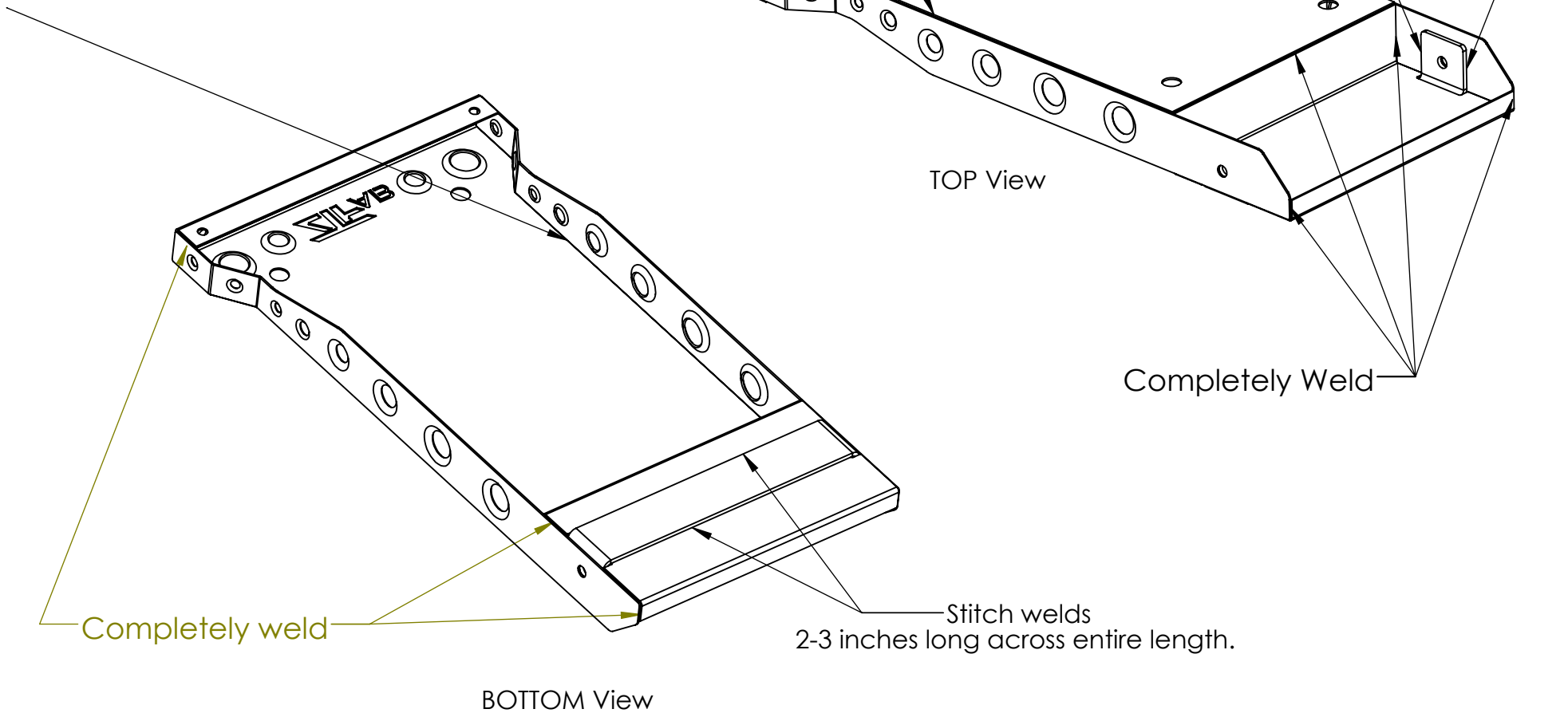


DETAIL D
SCALE 1 : 4

Step 4: Welding the Base

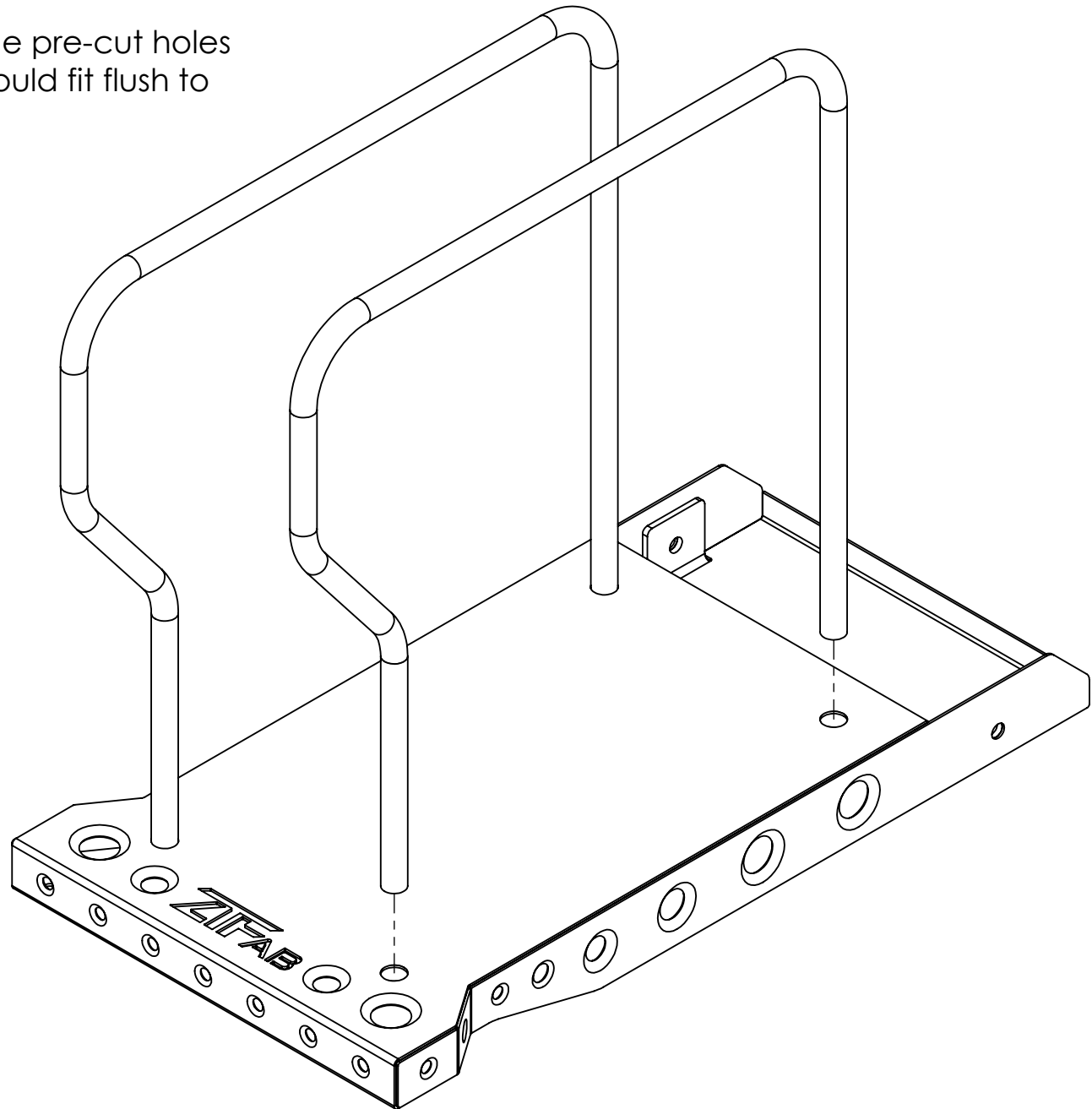
Weld the parts of the base together using your preferred method of welding. Alternate your welds to keep distortion to a minimum.

NOTE: If you are not comfortable with welding the outside corner joints of the base, you can weld the side plates to the base from the inside instead.



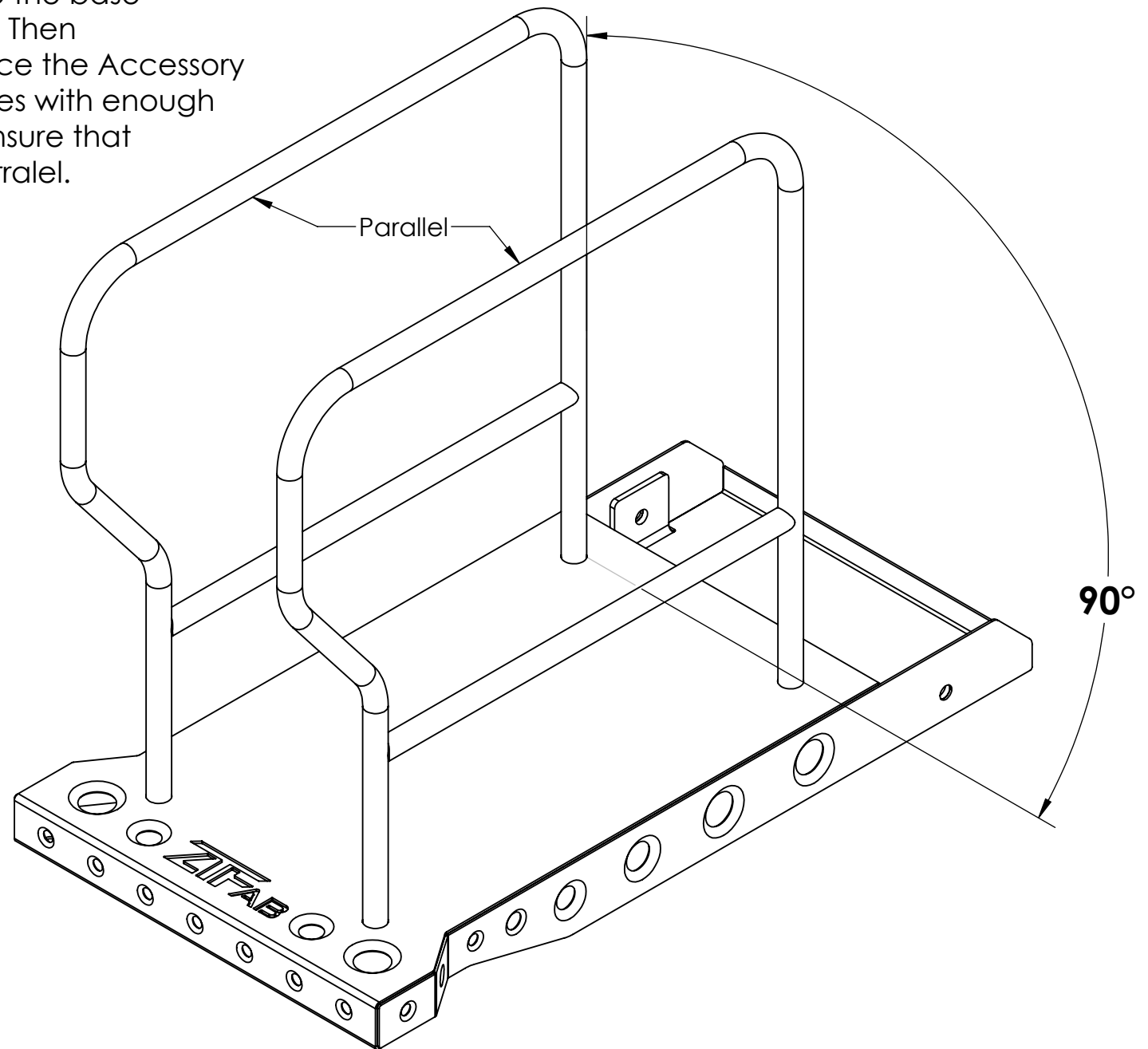
Step 5: Positioning Tubes

Insert Handle tubes into the pre-cut holes in the cart base. Tubes should fit flush to the bottom of the plate.



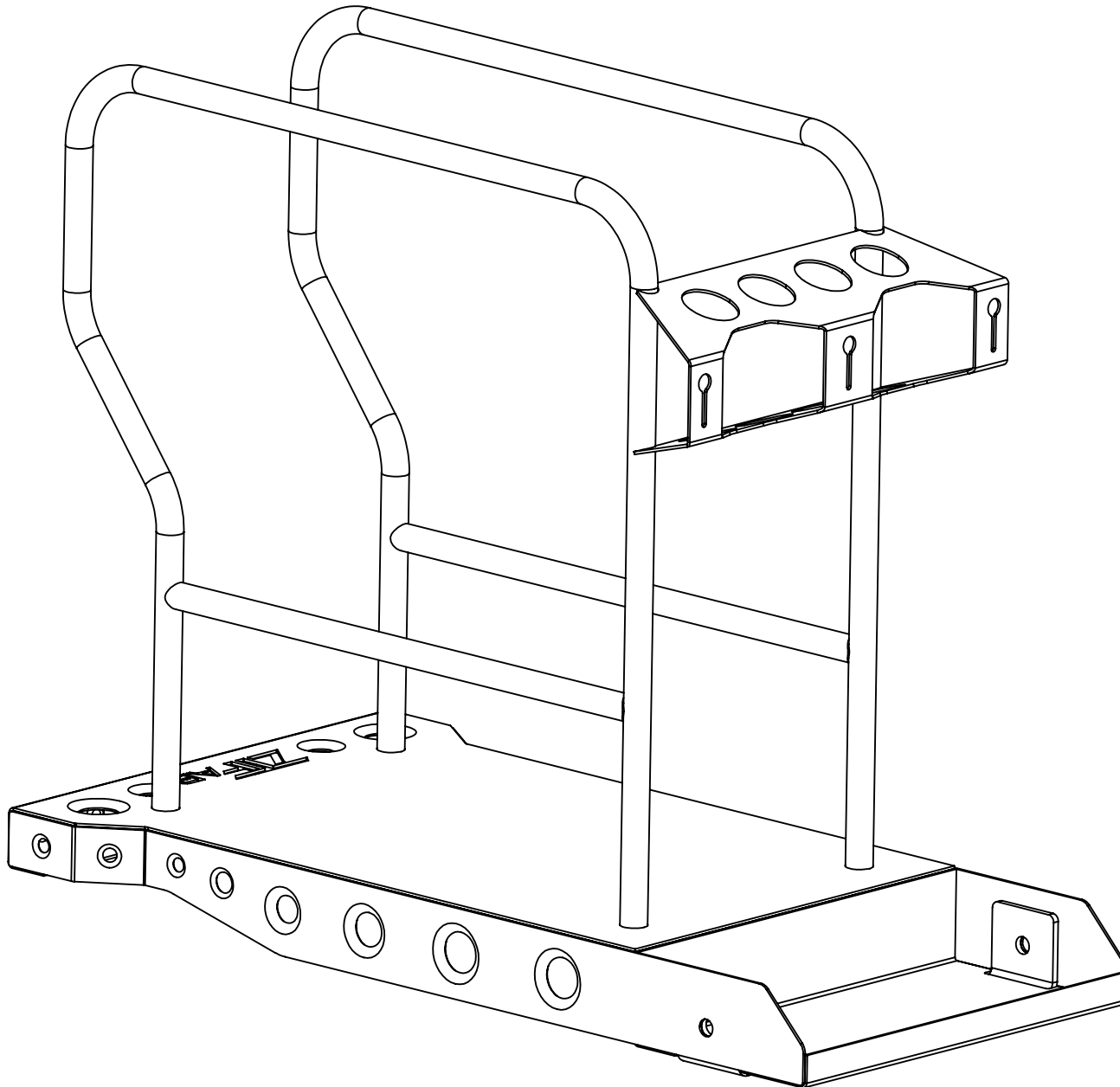
Step 5A: Tacking Tubes

Ensure that tubes are 90* to the base and parallel to each other. Then tack weld into position. Place the Accessory Tubes onto the Handle Tubes with enough height for your machine. Ensure that the tubes are level and parralel. Tack into position.



Step 6: Bottle Bracket

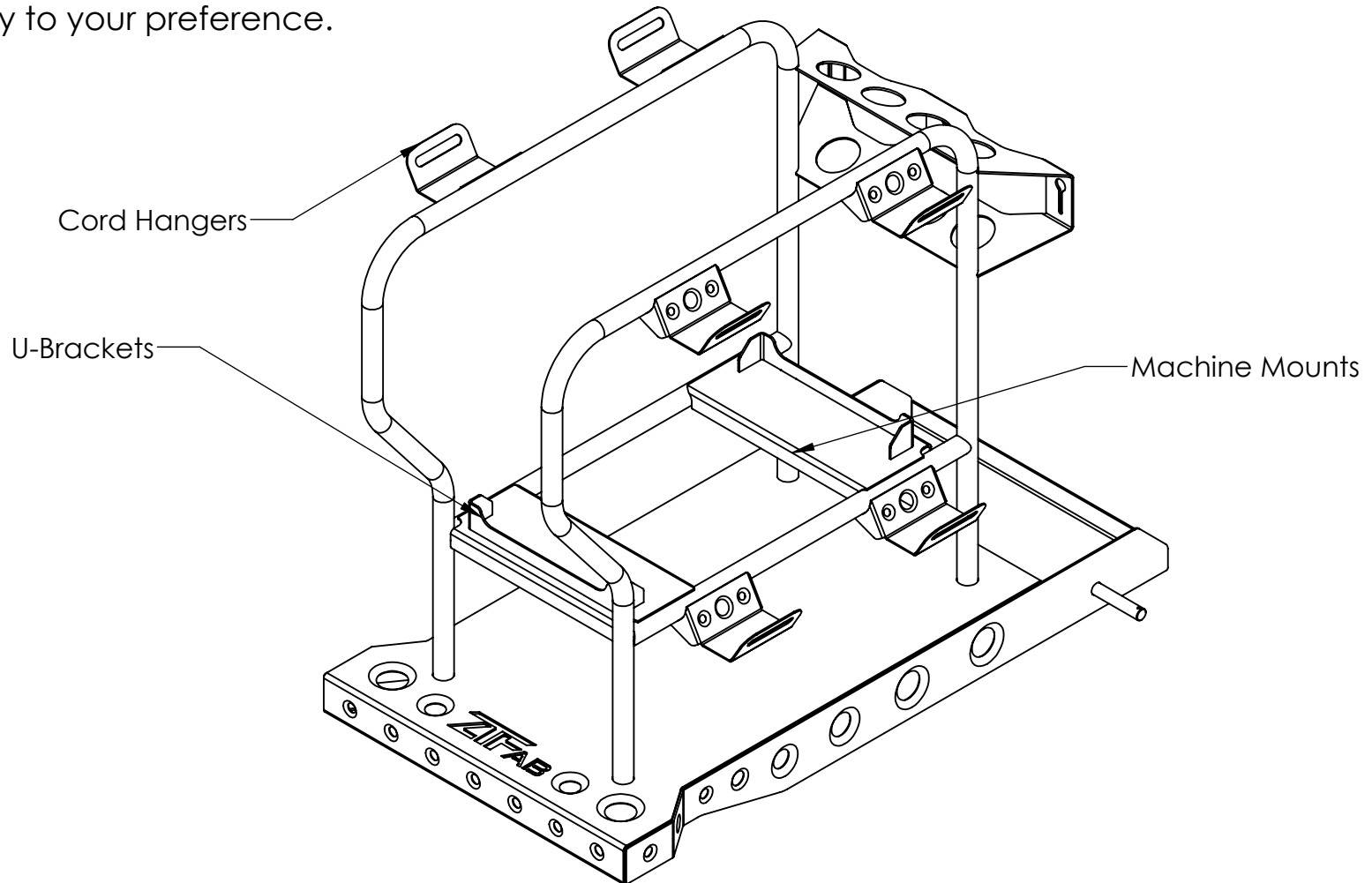
Position the Bottle Bracket onto the tubes. Height on tubes will be determined by the size of your bottles. Tack weld the bracket at the top only.



Step 7: Machine Mounts and Cord hangers

Place the U-brackets into the slots on the Machine Mounts and tack weld the brackets in place. Position the Machine mounts on the accessory tubes and move the mounts fore and aft to accommodate your machine. Tack weld the mounts in place and verify the distance between the U-brackets is large enough for your welder.

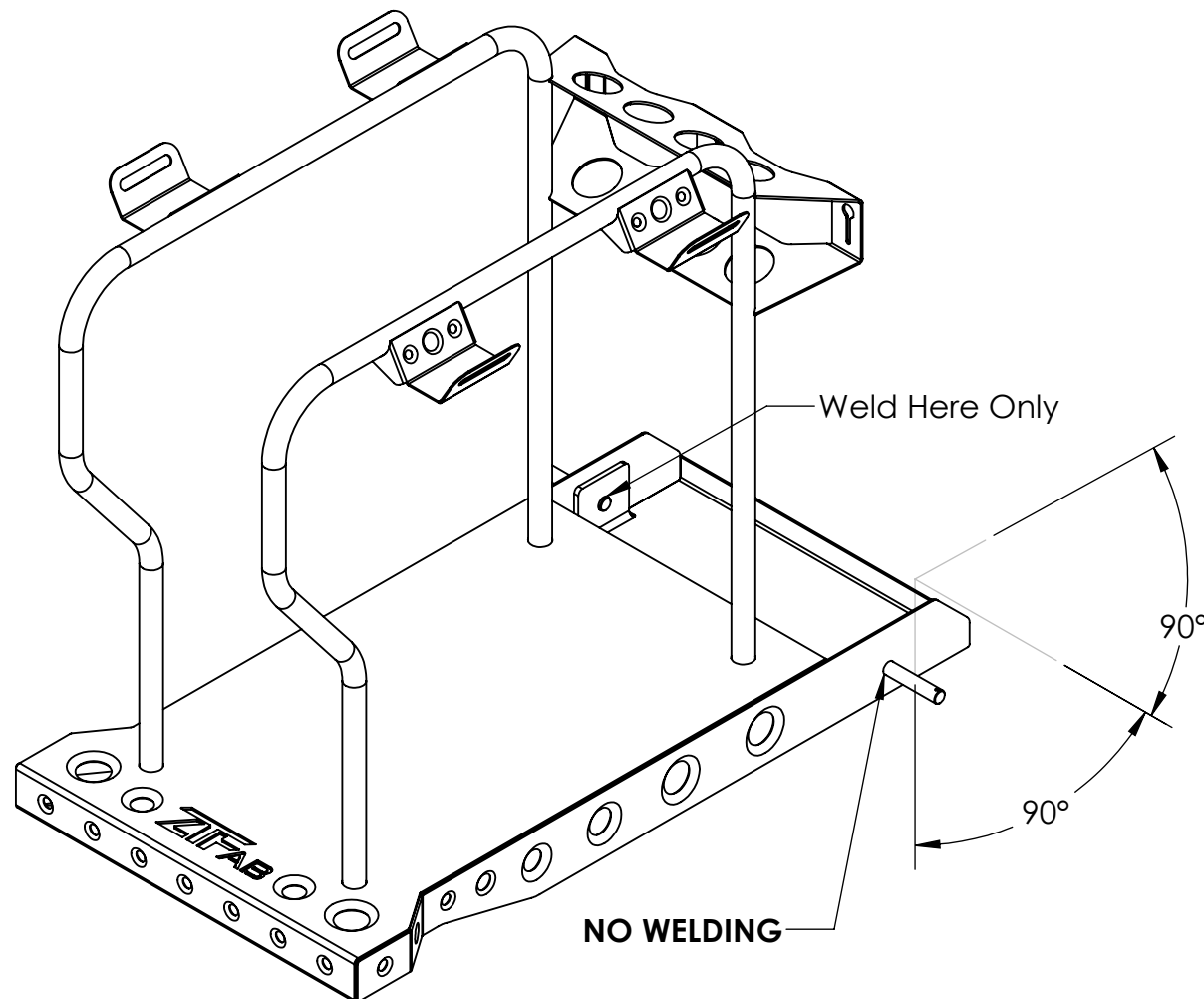
Place the cord hangers on the tubes. The placement of these items is completely to your preference.



Step 8: Axle Shafts

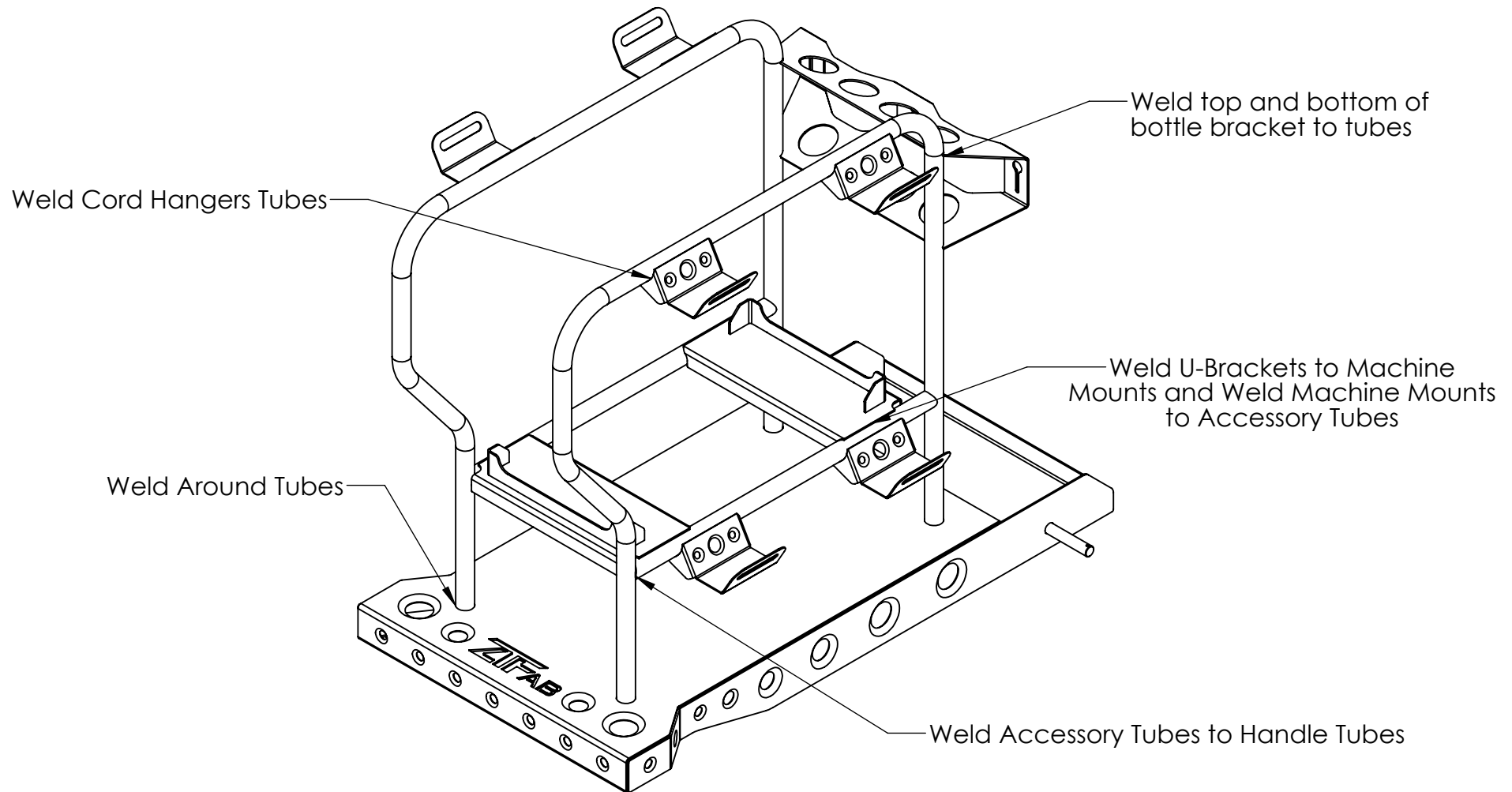
Place the axle shaft through the sides of the base and into the axle bracket. The axle should protrude through the axle bracket 1/8"-1/4" depending on the wheel used. If necessary, use the wheel with any spacers or washers required to ensure proper depth.

Make sure the axles are parallel to the ground and 90° to the cart sides and tack in place. **DO NOT PLACE ANY TACK WELDS OR FINAL WELDS ON THE OUTSIDE OF THE AXLE SHAFTS.**



Step 9: Final Welding

Ensure that all brackets, tabs, and parts are securely tack welded in their proper locations. Complete all welds as necessary.



Step 10: Assembly

After you have test fit your welder, bottles, all accessories, and applied your preferred method of protection (i.e., paint, powder coat, etc) install the front casters and rear wheels with the supplied hardware. Attach the bottle chains to the bottle bracket with the included snap hooks.

