



◀ ANDY WEYENBERG

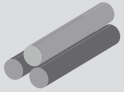
Andy Weyenberg began welding at his father's business a few years before joining the Army. After going to school for Electro-Mechanical, he started working for Miller Electric Mfg. LLC as a technical service rep and training instructor. Andy has built and raced stock cars since he was a teenager — and now builds high-performance street vehicles while also managing the Miller motorsports program.

SKILL LEVEL: Beginner
TIME COMMITMENT: 3-4 hours

/ TOOLS AND MATERIALS



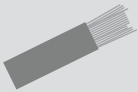
.063 3003 alloy aluminum



1" PVC pipes cut to 36" length (12)
and end caps (24)



Multimatic® 220 AC/DC
multiprocess welder



1/16" 4043 filler metal



Stomp shear, band saw
or reciprocating saw



Hole punch or
hole saw & 1/8" drill bit



Drill or drill press



Sheetmetal brake or
bending tools

WARNING: READ AND FOLLOW ALL LABELS AND THE OWNER'S MANUAL.

TIG ROD STORAGE RACK

Keep a variety of TIG rods organized and close at hand with this handy TIG rod storage solution.

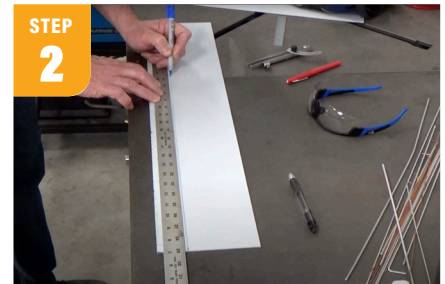


AS SEEN ON REAL GARAGE
[YouTube.com/RealGarageWithAndy](https://www.youtube.com/RealGarageWithAndy)

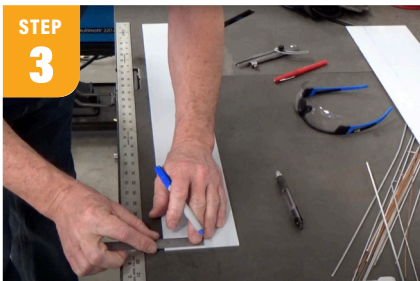
STEP BY STEP



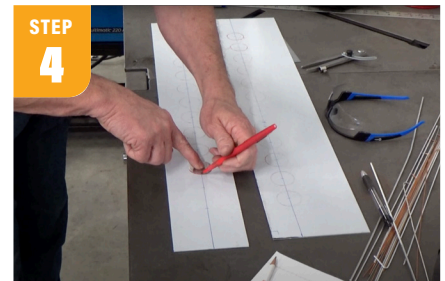
STEP 1
Cut your top piece to 5-1/2" x 29", or whatever measurements work for your workbench. My Miller ArcStation is 29" deep so I cut the bottom piece to 4" x 29".



STEP 2
Starting with your top piece, center 12 holes for the PVC pipe 1-5/8" from the long edge. Then, starting 3-1/2" from the short end, mark a hole every 2". The 12th hole should land at 25-1/2".



STEP 3
Do the same on the bottom piece, but holes should be 2-1/8" from the long edge.



STEP 4
Because I'm using a Rotex punch to make my hole instead of a standard hole saw, I made a 1-3/8" circular template and centered the template around each mark to outline the outside PVC diameter. Punch out the holes.

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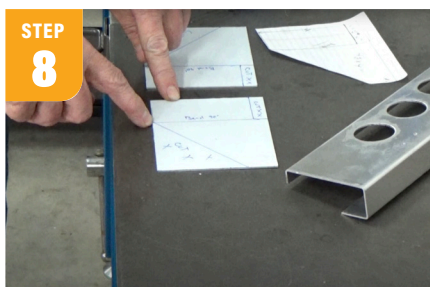
Taking the top piece, create two 1", 90-degree bends on the front side and a 1/2", 90-degree bend on the back edge.



The bottom piece will get a 1/2", 90-degree bend on the front and a 1", 90-degree bend on the back.



In front of each large hole, drill two 1/8" holes through the top and 1" bend underneath, approximately 1/2" from the edge.



Create two gusset-style sides for the top. Start with two 4-1/2" x 4" pieces. You'll need to create a 1-1/2" bend on your 4" side; but first, cut 1/2" x 1-1/2" off the top of the side. Then on the other topside corner, measure down 1" from the top and cut the bottom corner off between the 1" mark and the 1-1/2" mark for the bend. You'll do the same on the other piece, just mirrored.



TIG weld gusset sides to your top rack.



For the bottom gussets, you'll need two 3" x 4" pieces with a 1-1/2" 90-degree bend on the 3" side. Weld to the top of the bottom rack.



Cut your PVC pipes to between 35" and 35-1/4" long. Clean and deburr the ends.



Mount the rack to your weld bench. Leave just enough room beneath the bottom piece to slide the PVC caps under. Use a rubber hammer to seat the PVC pipes tight into the bottom caps.



On top caps, sand the inside to make them slip on and off easier. Drilling a small hole on top also helps.



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