



◀ 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: 2 hours

/ TOOLS AND MATERIALS



Miller® Multimatic® 220 AC/DC multiprocess welder



3/32" size 5356 Hobart® filler metal



Bandsaw/cutoff wheel



Vise grips/clamps



Grinder/sander



Hammer



Bench vise



1/4" aluminum round stock (for round hook style only)



1" x 1" aluminum angle, 1/16" or 1/8" thickness



6 mm OD, 4 mm ID, 20 mm long standoff spacers



Scale, ruler or tape measure



Fine-tip markers/scribe



Center punch



#26 or 9/64" drill bit



Two 7/8" long 6-32 socket head cap screws



7/64" Allen wrench

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



DIY WELDING PROJECT: BUILDING A MIG GUN HANDLE HANGER

In this step-by-step tutorial for beginner welders, Andy demonstrates custom welding techniques for creating round and flat hook styles for your MIG gun handle hanger.

STEP BY STEP (Round Hook Hanger)

STEP 1



Begin by cutting a piece of the 1-inch x 1-inch angle to a length of 1-5/8 inches. Ensure your cuts are precise for a proper fit.

STEP 2



Next, mark 7/16-inch from the inside edge of the angle. This will be your guide for the next cut.

STEP 3



Carefully cut along the edge of the line so that the saved part maintains a width of 7/16-inch. Take your time to ensure accuracy.

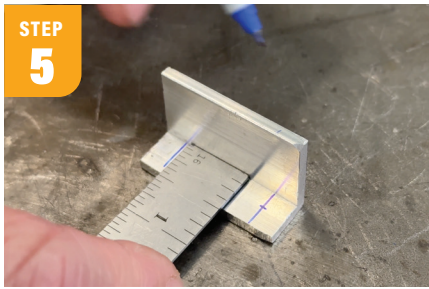
STEP 4



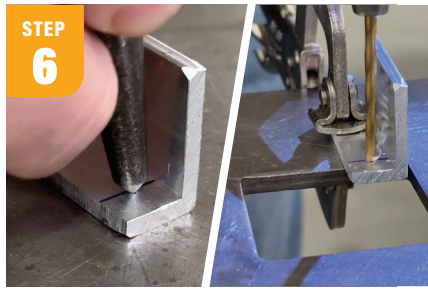
Deburr the cut edges to remove any sharpness and ensure a smooth finish.

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On the short side of the angle, mark for holes that are 1-1/8 inches apart, 3/16-inch from the top edge and 1/4-inch from either side. These marks will guide your drilling.



Use a center punch to create indentations at the marked points, then drill the holes using a #26 or 9/64" drill bit.



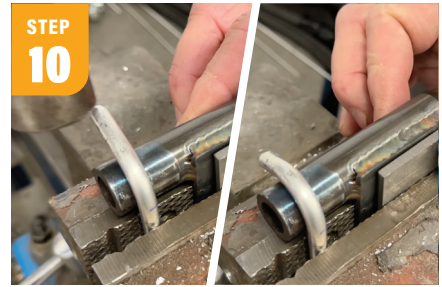
Cut a 3-5/8-inch piece of the 1/4-inch round stock. Ensure the cut is clean and straight.



Form a radius on one end of the round stock. This will help in creating a smooth hook shape.



Find a 3/4-inch round piece of tubing or a bolt to use as a form for bending the hook. This will help achieve a consistent curve.



Hammer form the 1/4-inch stock around the tubing. Start about 2-1/4 inches from the rounded end to create the desired hook shape.



Cut two pieces of the 6 mm OD x 4 mm ID x 20 mm long standoff spacers to a length of 7 mm or .275 inches. Ensure the cuts are precise.



Remove the top two cap screws from the gun handle. Temporarily install the spacers and the mounting bracket using two 6-32 x 7/8-inch-long socket head cap screws.



Determine where you want your hook welded. I centered mine on the gooseneck for balance.



Remove the mount from the gun and grind a small flat spot on the bottom of the hook where it will mate to the gun mount. Clamp the hook in place and weld it securely.

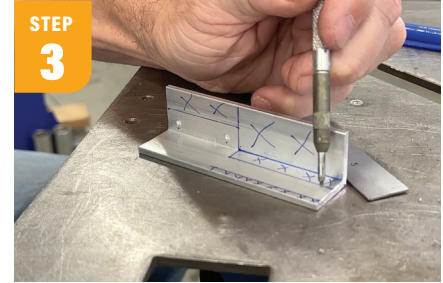
STEP BY STEP (Flat Hook Hanger)



STEP 1
Cut the 1-inch x 1-inch angle to a length of 3-3/4 inches. Ensure the cut is straight and clean.



STEP 2
The base mounting dimensions will be the same as the round hook design. Follow the same measurements for consistency.



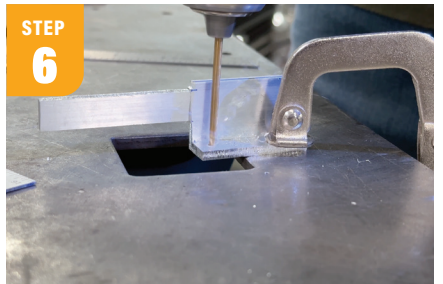
STEP 3
Note the additional 2-1/8-inch x 7/16-inch-wide flat strip. This will be used for the flat hook design.



STEP 4
Position the flat strip 1/8-inch from the top edge of the angle. Mark the additional cut areas with an "XX."



STEP 5
Cut out all areas you marked with "XX" for drop-off. Ensure the cuts are clean and precise.



STEP 6
Mark and drill the mounting holes as in steps 5 and 6 of the round hook hanger instructions. Use the same measurements for consistency.



STEP 7
Grind a radius at the tip of the strip and deburr any cut edges to ensure a smooth finish.



STEP 8
Bend the strip around the 3/4-inch round form, just as you did in step 10 of the round hook hanger instructions. Ensure the bend is smooth and even.



STEP 9
Mount the completed hook to the gun handle. Ensure it is securely fastened and properly aligned.



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