



◀ **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: Intermediate
TIME COMMITMENT: 3-4 hours

/ **TOOLS AND MATERIALS**



Miller® Millermatic® 255



Miller Spectrum® 625 X-TREME™ plasma cutter



3/8"-thick plate steel
• Top base plate: 8" x 36"
• Top swivel plate: 6" x 8"
• Bottom swivel plates: 5" x 5" (2)



2" x 3" .120 wall tubing



5/16" bolts (to mount the slip roll to the stand)



5/8" bolts



1/2" bolts



Drills and taps



Plumb bob



Assortment of wrenches



Measuring tools



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

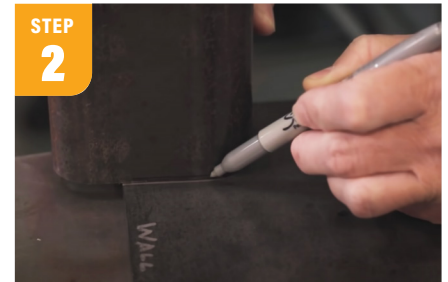
SWING OUT STAND

Learn how to create a heavy-duty, swing-out equipment stand to save space and heavy lifting in your garage.

STEP BY STEP



STEP 1
Measure where to place your top and bottom base plates to mount the equipment stand to the vertical post. The bottom swivel plate and mounting base will be attached by a diagonal support tube to help support the weight.



STEP 2
Use a template to draw a line to cut notches out of the top and bottom base plates so they can be welded to the vertical post.

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

Continued on next page



STEP 3

Measure the pivot point of the top base plate, which will be welded to the post. This will enable the stand to swing around the post. Mine is 2-3/8" away from the corner. That gives me 1-3/8" clearance to work with for the mounting base. Keep in mind you also have to put a weld on the top base plate and it will take up at least 1/4". Follow the same directions for the bottom base plate.



STEP 4

Drill your pivot point in the top base plate.



STEP 5

Be sure to grind off the mill scale on the base plates and vertical post to which the stand will be attached.



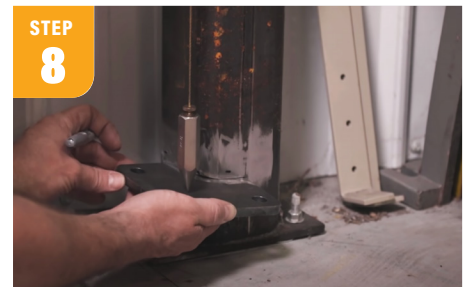
STEP 6

Using the Millermatic 255, tack weld the top base plate to the vertical post. Using pulse MIG mode, I set the machine for 3/8"-thick material with Auto-Set™ technology.



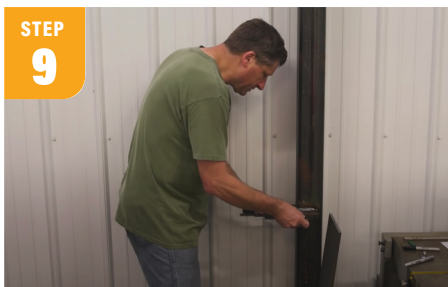
STEP 7

Grab your digital level and make sure your top base plate is level; check both directions before welding in place.



STEP 8

Before welding the bottom base plate, grab your plumb bob and drop it through the hole in the top base plate to ensure the pivot points will line up on both base plates. Make your mark and drill a 5/8" hole. Then, weld the bottom base plate to the vertical post.



STEP 9

Before drilling your holes in the mounting base, check to make sure your clearance is at least 1" from the weld.



STEP 10

Machine your 5/8" hole 1" from the end and 2" from the side in your mounting base along with two 1/2" holes, which will be used for your locking bolts. The locking bolts will be tapped into the swivel mounting base once the table is fully extended.



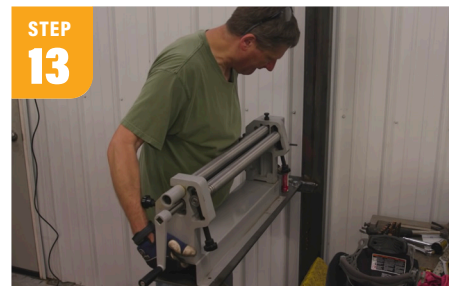
STEP 11

After attaching both the bottom swivel plate and mounting base with your 5/8" bolts, place your digital level on the mounting base and shim it up until it's perfectly level. Then measure for your diagonal support tube that will go from the end of the mounting base to the bottom swivel plate and weld it into place.



STEP 12

With the mounting base extended out, transfer punch the top holes to the top base plate, drill and tap for your 1/2" locking bolts.



STEP 13

Determine the equipment mounting hole locations, drill and tap, then mount your equipment.



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