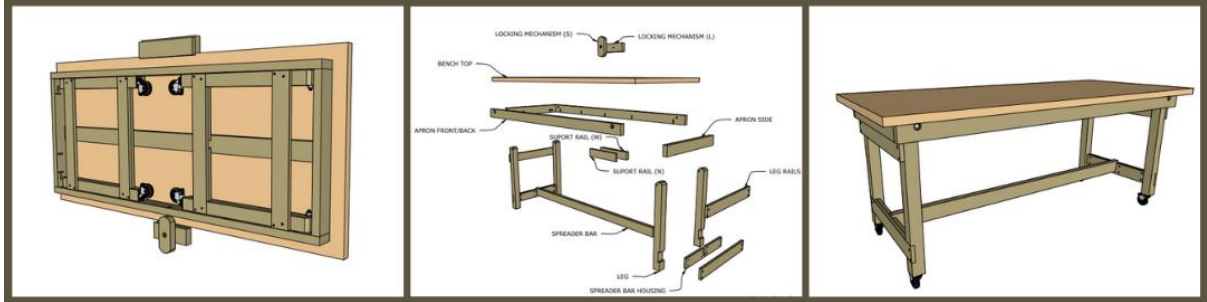
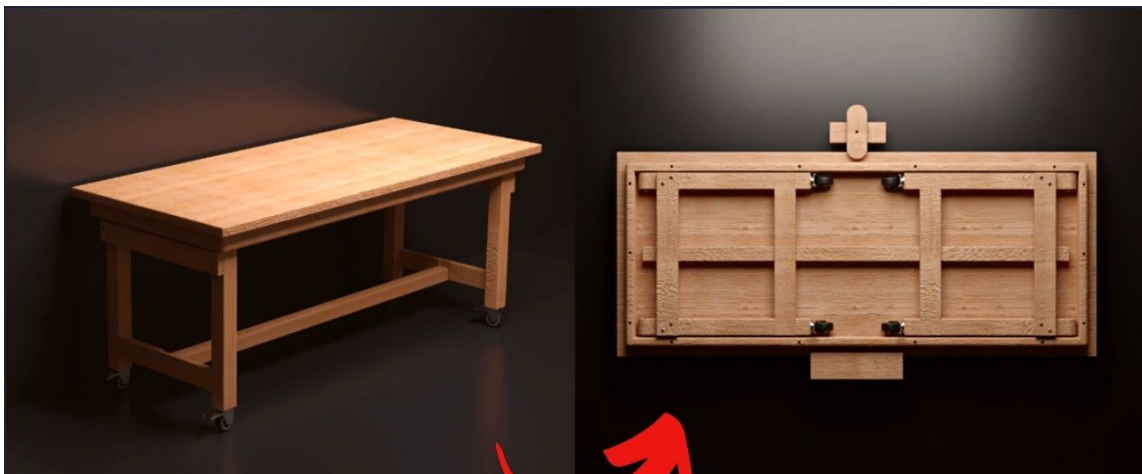


Folding Workbench

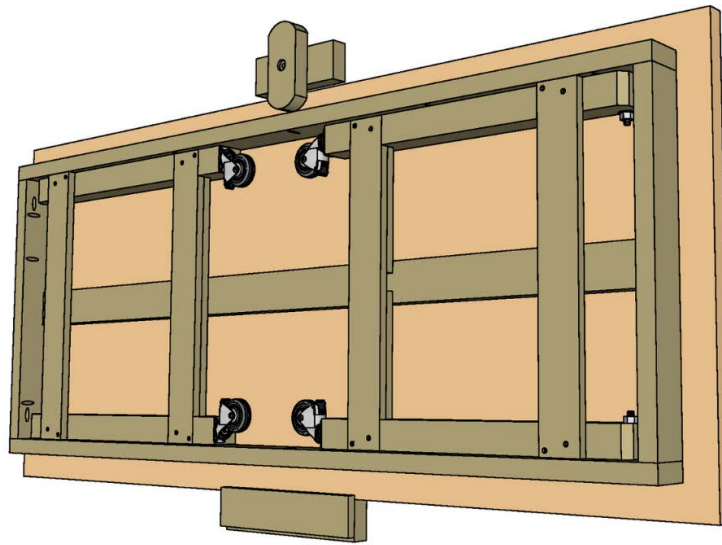
Full Woodwork Plans



This guide will provide you with a step-by-step tutorial on how to build a folding work bench that folds off the wall. This work bench is 100% mobile and allows access from any side. If you are someone who enjoys DIY, home building, craft projects, or are simply short on space, this project is for you.

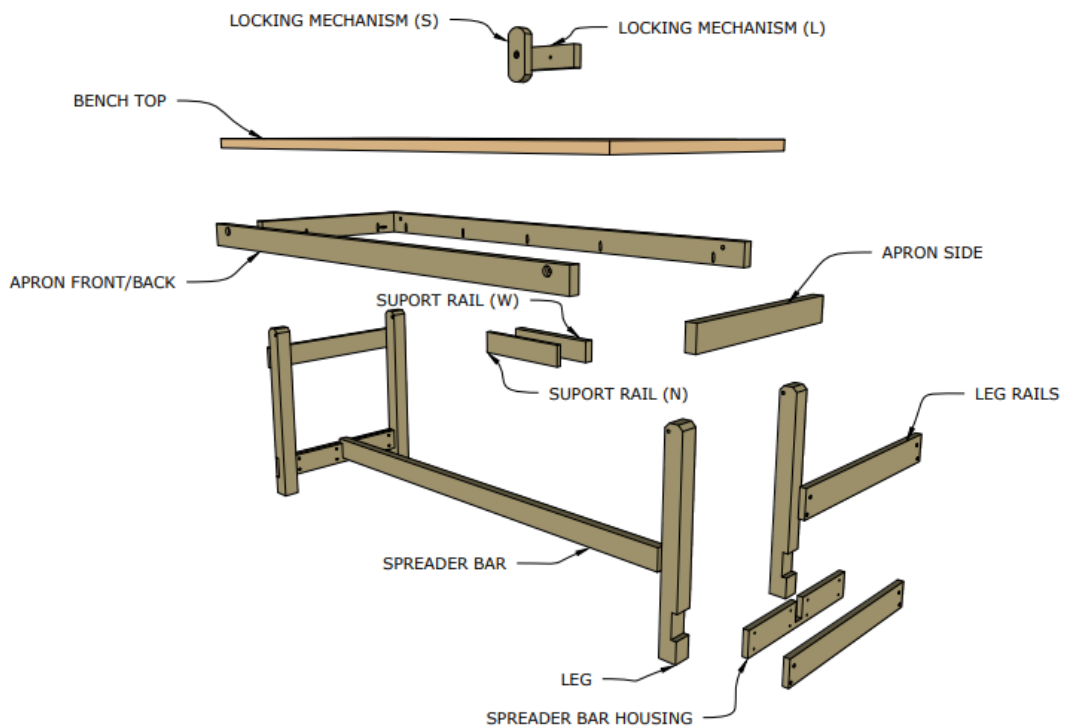


WORKBENCH TO WALL

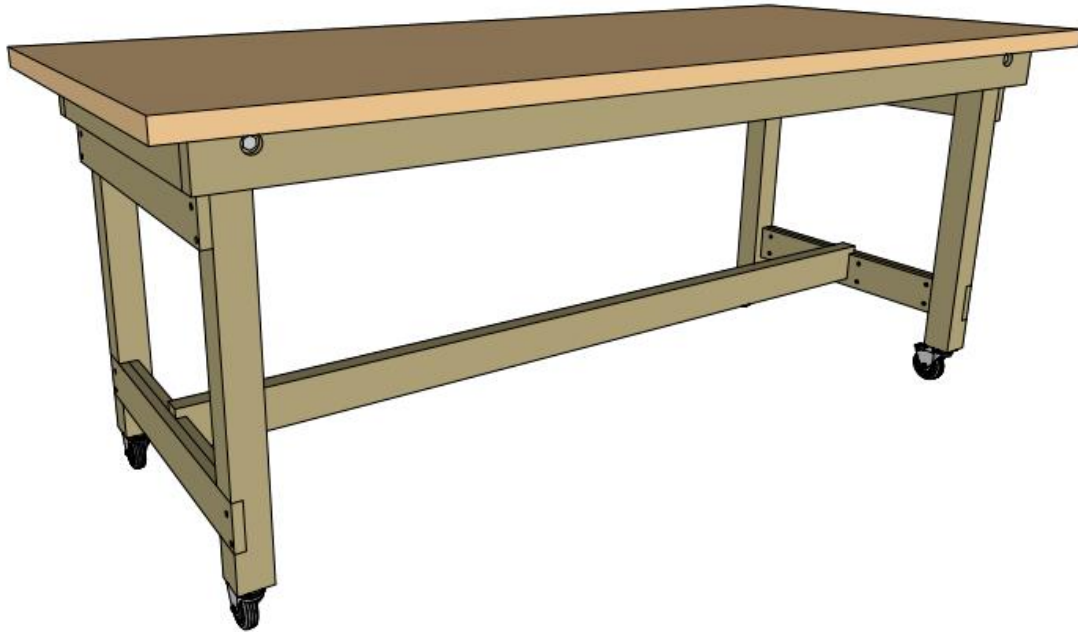


Here is a List of all the Parts you're going to build:

- Bench top
- Leg
- Apron front and back
- Spreader bar
- Apron side
- Support rail
- Locking mechanism
- Locking mechanism
- Leg rails
- Spreader bar housing
- Support rail



Perspective

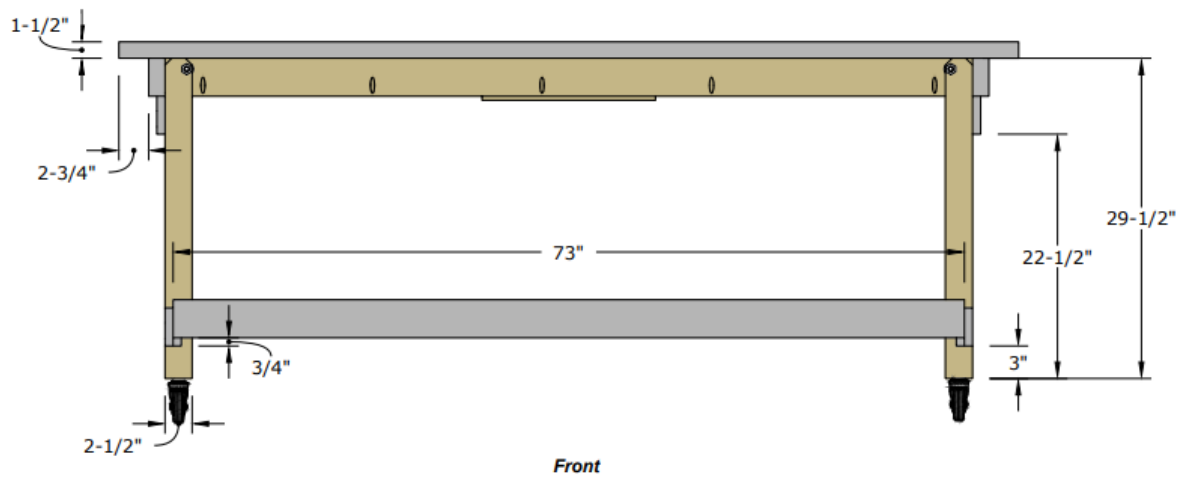


Materials Needed

For this project, you will require to have Lumber for the various parts of the folding workbench. Below are the specifics for each part:

- **Leg:** Four 3x3 Lumber with a length of 29 1/2", a width of 2 1/2" and a thickness of 2 1/2"
- **Benchtop:** 83" Length, 36" Width, and a Thickness of 1 1/2"
- **Apron Front/Back:** Two 2x4 lumber with length 77 1/2 ", width 3 1/2", and thickness 1 1/2"
- **Spreader Bar:** One 2x4 lumber with length 73", width 3 1/2", and thickness 1 1/2"
- **Apron Side:** Two 2x4 lumber with length 27 9/16", width 3 1/2", and thickness 1 1/2"
- **Support Rail:** One 2x4 lumber with length 16", width 3 1/2", thickness 1 1/2"
- **Locking Mechanism (S):** One 2x4 lumber with length 10", width 3 1/2 ", and thickness 1 1/2"
- **Locking Mechanism (L):** Two 2x4 lumber with length 8", width 3 1/2", and thickness 1 1/2"
- **Leg Rails:** Four 1x4 lumber with length 27 3/8", width 3 1/2 ", and thickness 3/4"
- **Spreader Bar Housing:** Two 1x4 lumber with length 22 3/8", width 3 1/2", and thickness 3/4"
- **Support Rail:** One 1x4 lumber with length 16", width 3 1/2", and thickness 3/4 "

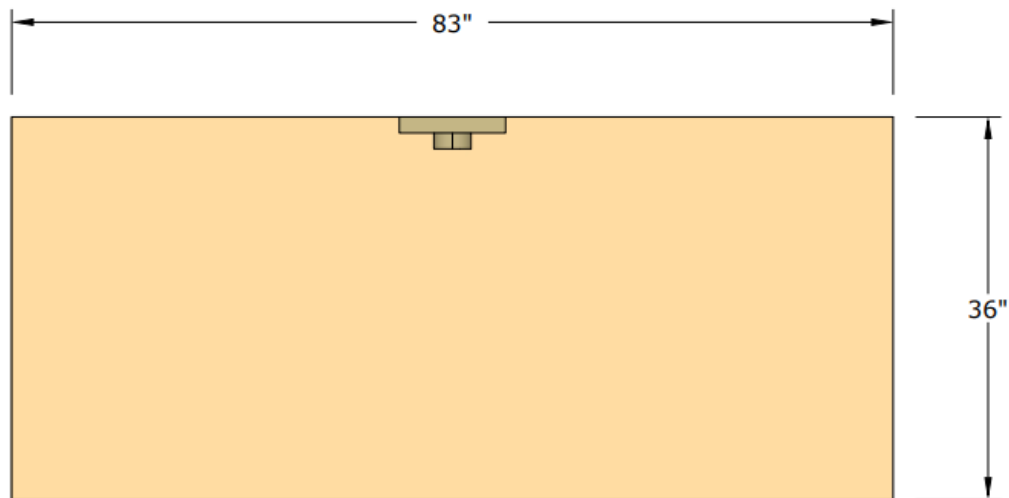
Section View



X-Ray

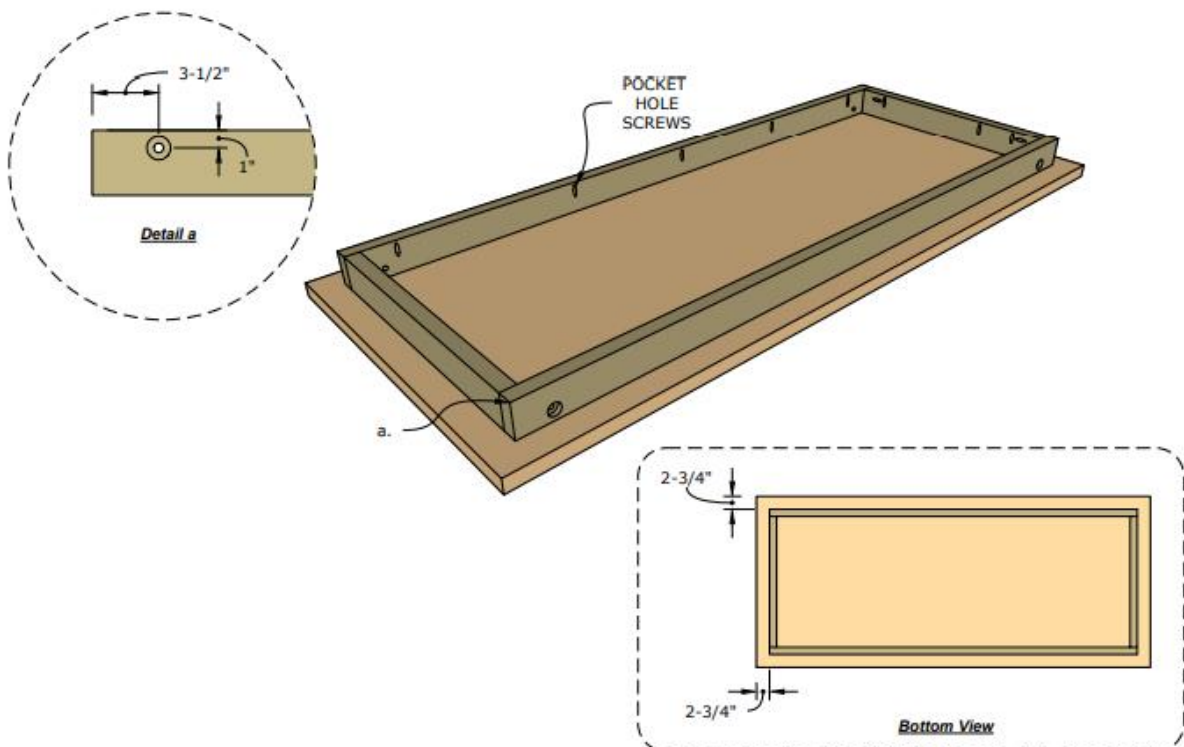


Step #1: Start with the Bench Top



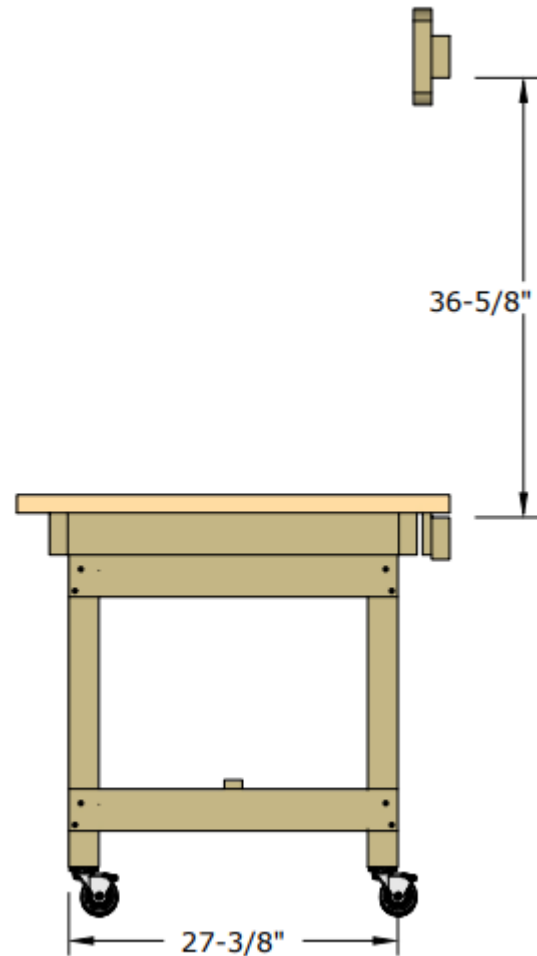
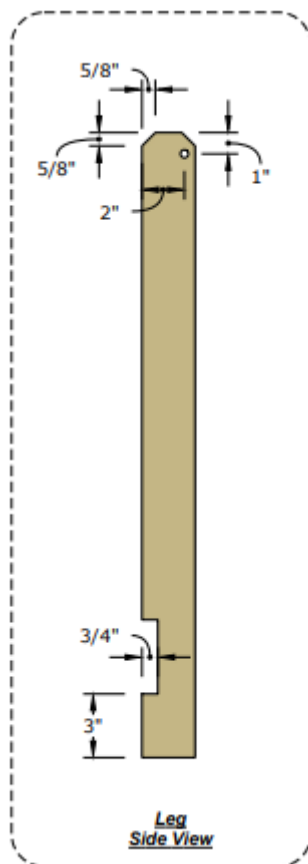
Top

With the bench top laying down, mark $2 \frac{1}{16}$ " border around all the edges. This will mark the outside of the apron. Next, assemble the apron using butt joints or 45 degree miters depending on your preference. Once the apron is complete, ensure that you pre-drill miters and fix with $2 \frac{1}{2}$ " screws to strengthen the joints.

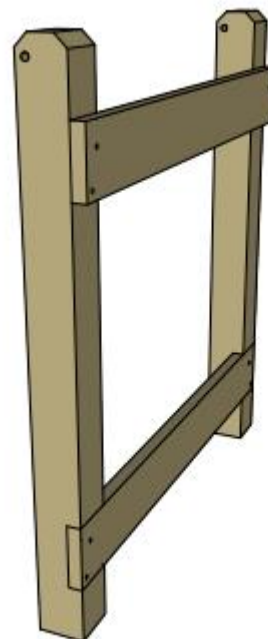


Step #2: Create the Leg Frames

To ensure that the legs fold, you will require to reshape the legs as shown in the diagrams. Make sure to follow all the tutorials on the diagrams to get a thorough or accurate frame of the legs.

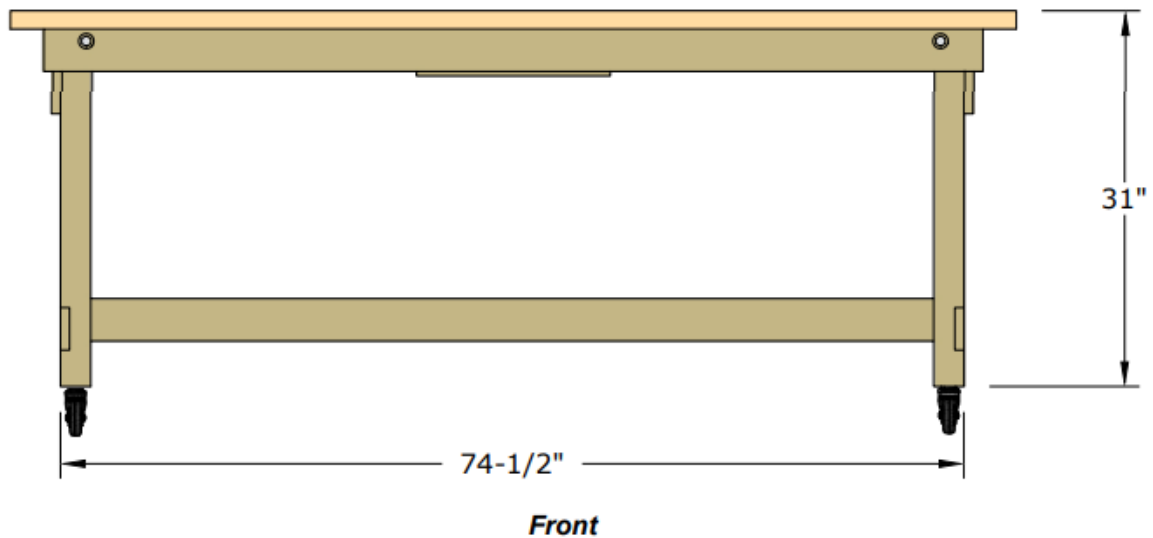


Side



Step #3: Spreader Bar Housing Rail

Take the spreader bar housing. Measure it and mark the center. Centering over the point mark $1\frac{1}{2}$ " x $3\frac{1}{2}$ " housing to take spreader bar. As indicated, pre-drill for $1\frac{1}{2}$ " timber screws. Take the spreader bar housing rail and screw to the back of the housed leg rail.



Step #4: Attach Leg Frames to Bench Top

Ensure that you measure and mark $3\frac{1}{2}$ " in and 1" up on the apron. Thereafter, drill $\frac{3}{8}$ " holes to house $\frac{3}{8}$ " 5" cup head bolt. Afterwards, align this with the previous hole drilled during stage 2. Ensure you tighten the bolts tightly but not too tight to enable the leg frame to fold.

Step #5: Support Rail

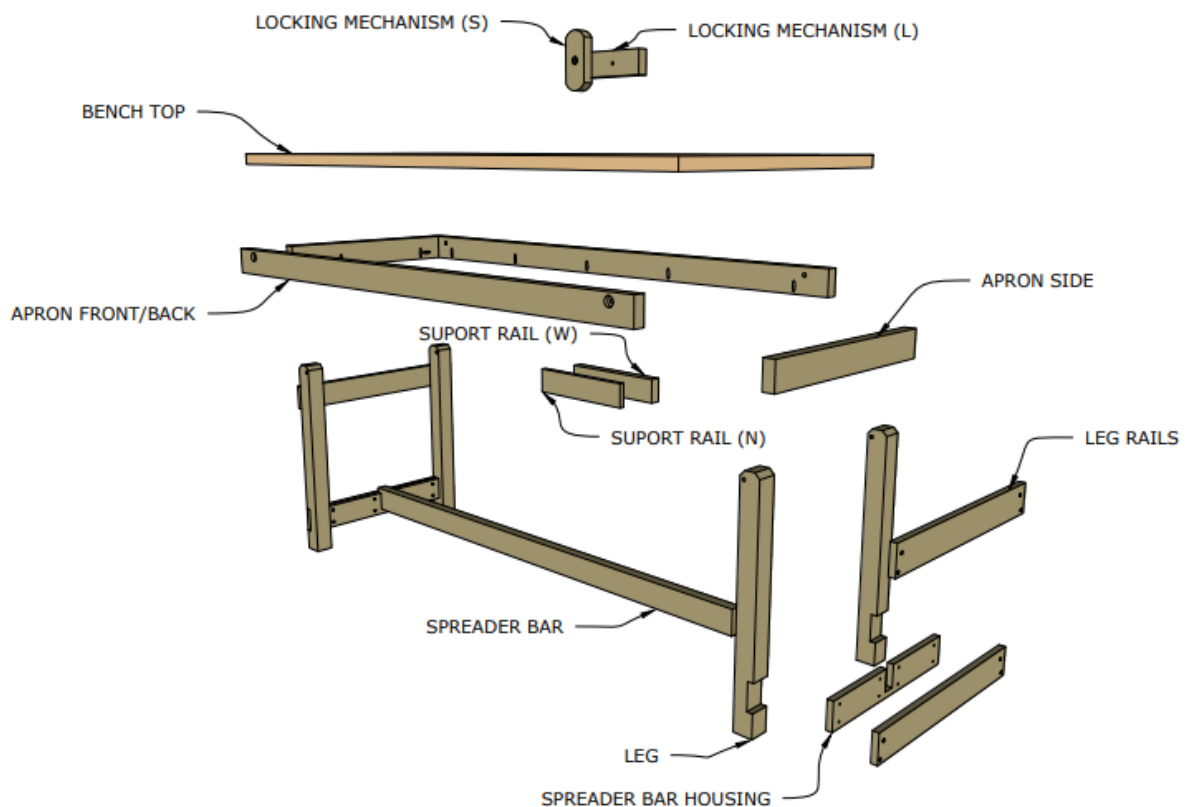
At this stage, take your 3 1/2" x 3/4" x 16" support rail timber and attach it to the 3 1/2" x 2 1/2" x 16" support rail.

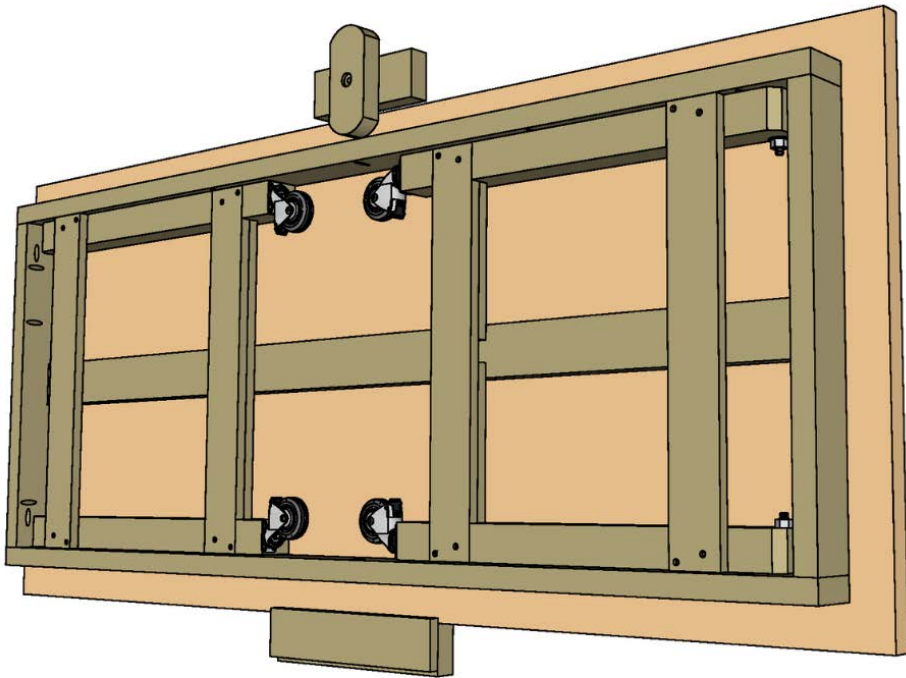
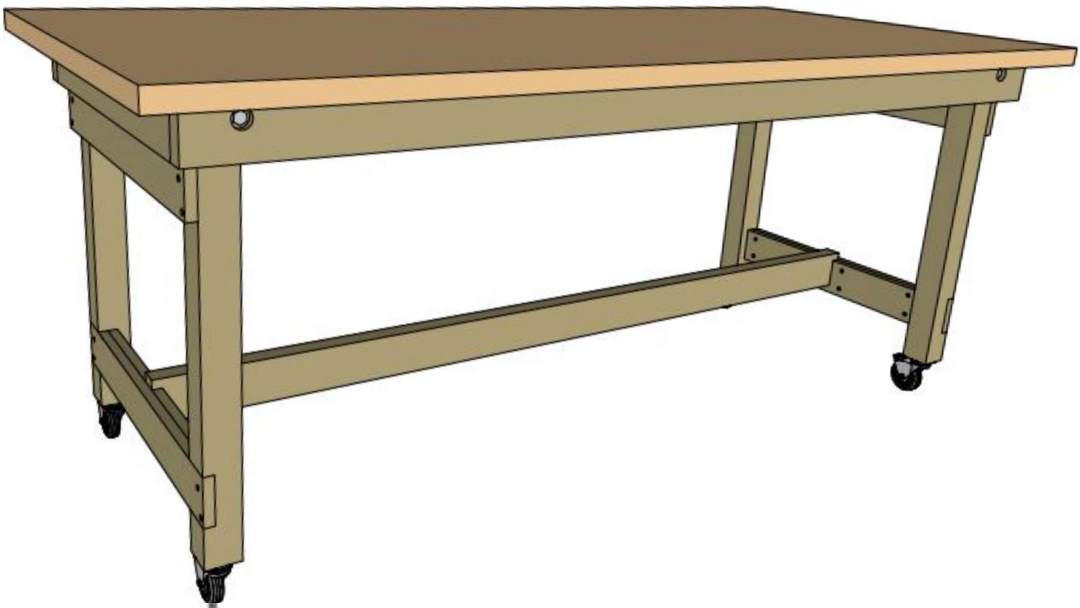
Step #6: Position the Wall Support and Locking Mechanism

Find the right height for the support bracket by rolling your bench flush on the wall you wish to mount it on. Position the support rail against the underside of the bench top. Make sure the flush is against the wall. Mount your locking mechanism using fixings suitable for your wall material.

Step #7: Store the Spreader Bar

At this point, store the spreader bar on the underside of the bench with the folded legs. Screw two screws into the base of the bench top, leaving the heads slightly protruding. It gives you something to mount your spreader bar on. Viola! You are done!





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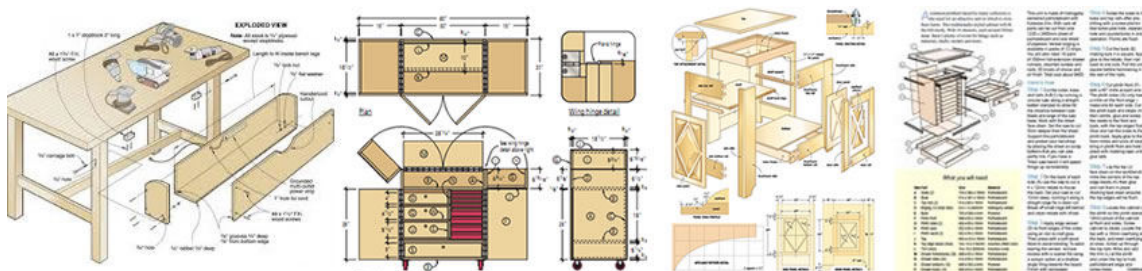
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