HART™

Sofa Table with Built in Outlets

by @plankoswoodworking

PROJECT PLAN

Finished Dimensions: Varies based on Desired Size

Skill Level: Intermediate

Materials

Item	Qty
2x6x8’ Boards	2
2x4x8’ Board	1
2 ½” Wood Screws	8
Wood glue	1 Small Bottle
Paint or Stain/Finish of your Choice!	1
⅜” Dowel	As needed

* Board Dimensions are "nominal". Actual dimensions are smaller due to lumber industry standards. Cuts are actual length.

Tools Used

Jigsaw

Circular Saw

Drill

Orbit Sander

Tape Measure

Also Needed: 12" or longer Clamps, Speed Square, Combination Square, Finish Cut Saw (Optional)

Battery Tip: A 4.0 Ah battery is recommended to be paired with high amp draw tools for maximum efficiency.

Lumber Cut List

Board*	Description	Cut to	Qty
2x6	Table Top	Desired Table Length	1
2x6	Legs	Desired Table Length	2
2x4	Stretcher	TBD	1

* Board dimensions are “nominal.” Actual dimensions are smaller due to lumber industry standards. Cuts are actual length.

Assembly Instructions

Step 1

Set your circular saw to 45 degrees using your speed or combination square, and cut one end of your first 2x6”.

Step 2

From the long end of the 45 degree cut you just made (also called a miter cut), measure and mark your desired table length. For my build it will be 88”. Take your circular saw and line up your 45 degree guide mark with the mark you just made and cut along it.

Step 3

Take your second 2x6 board and measure and mark your desired table height (mine will be 31”) + an extra ½” (more on this later). This will be your first table leg.

Step 4

Take your cutoff piece from the previous step, rotate, and flip it so the 45 degree side of the cutoff piece and your first leg piece match. Butt them up together, and if you have them, use clamps to hold them together.

Step 5

With both pieces together, measure and mark your actual table height starting from the 45 degree side. Set your saw back to 0 degrees and cut along your mark.

Note: Cutting both leg pieces to their final length at the same time assures both are the same height. It eliminates any human error that can be introduced by measuring, marking and cutting each leg separately!

Step 6

Back to your table top, find where you want your recessed power strip(s) to be, and mark an appropriate cutout hole for them to be mounted in. Note: Make sure to check your recessed power strips manual to see what size the cutout hole should be.

Step 7

Drill a hole, roughly ¼" in diameter, near the perimeter of the cutout outline. Make sure the hole is along the inside of the outline perimeter, because inside the cutout line will be what is removed.

Step 8

Take your jigsaw and place it within the hole you just made. Cut along the cutout lines to create the space for your recessed power outlet to go.

Step 9

Apply glue to the miter cut faces of the table top and legs. One side at a time, put one leg and one side of your table top together and clamp the faces together as shown. This is the best way I found to prevent the two pieces from slipping for the next step.

Step 10

Mark and measure about ¾" down from the top of the leg piece. Pre-drill at least two holes along the mark you just made, and then drill in at least 2, 2 ½" wood screws to strengthen the miter joint.

Step 11

Repeat step 11 for the other side of your table top and leg. Wipe off any excess glue that has squeezed out, now let the glue for a couple hours.

Step 12

This step is optional. If you want to hide your screws, you can complete step 11 with a 3/8" counter sink drill bit. This allows you to fasten your screws below the surface of your work piece. You can then plug these holes with 3/8" dowels and cut them flush to conceal your wood screws for a smooth finish!

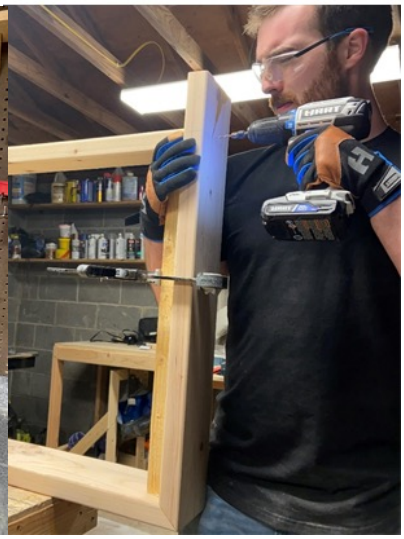
Step 13

After the glue has dried, measure the distance between both legs. Cut your 2x4 to this length. This piece will provide structural support between the table legs.

Step 14

Once cut, place the support piece you just cut between the table legs a couple inches from the bottom and centered on both legs. Pre-drill and drive screws to secure the support piece in place.

Note: Using spacer blocks or an extra set of hands can help you hold the support piece while you complete this step. Also, you can apply the same steps taken in step 11 to this step as well if you want!



Step 15

With the table basically assembled now, it is time to sand! Sand the entire table with 80 grit sandpaper, then 120, and finally with 180. This is where an orbital or sheet sander comes in very handy. Wipe down and clear off any dust.

Step 16

Apply a stain/finish or paint of your choosing! I went with Mocha stain from Minimax as well as 3 coats of Polyurethane.

Step 17

Once your stain/finish or paint is dry, you can install your recessed power strips and then you are done! A key piece of furniture you'll be kicking yourself for not making sooner!