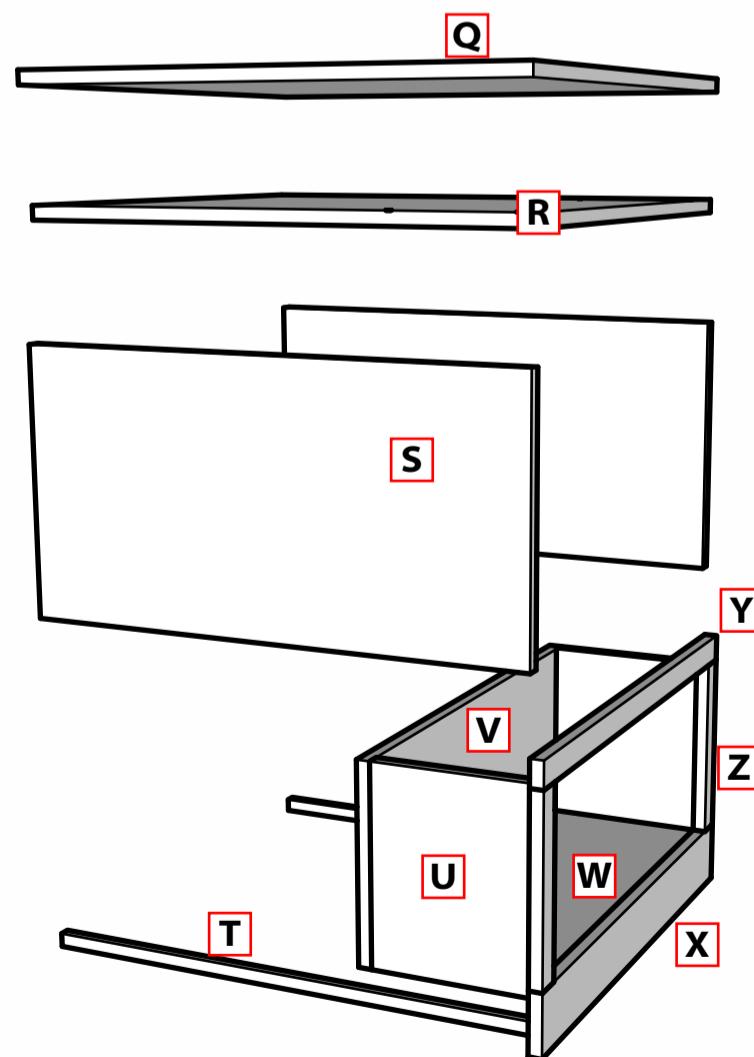
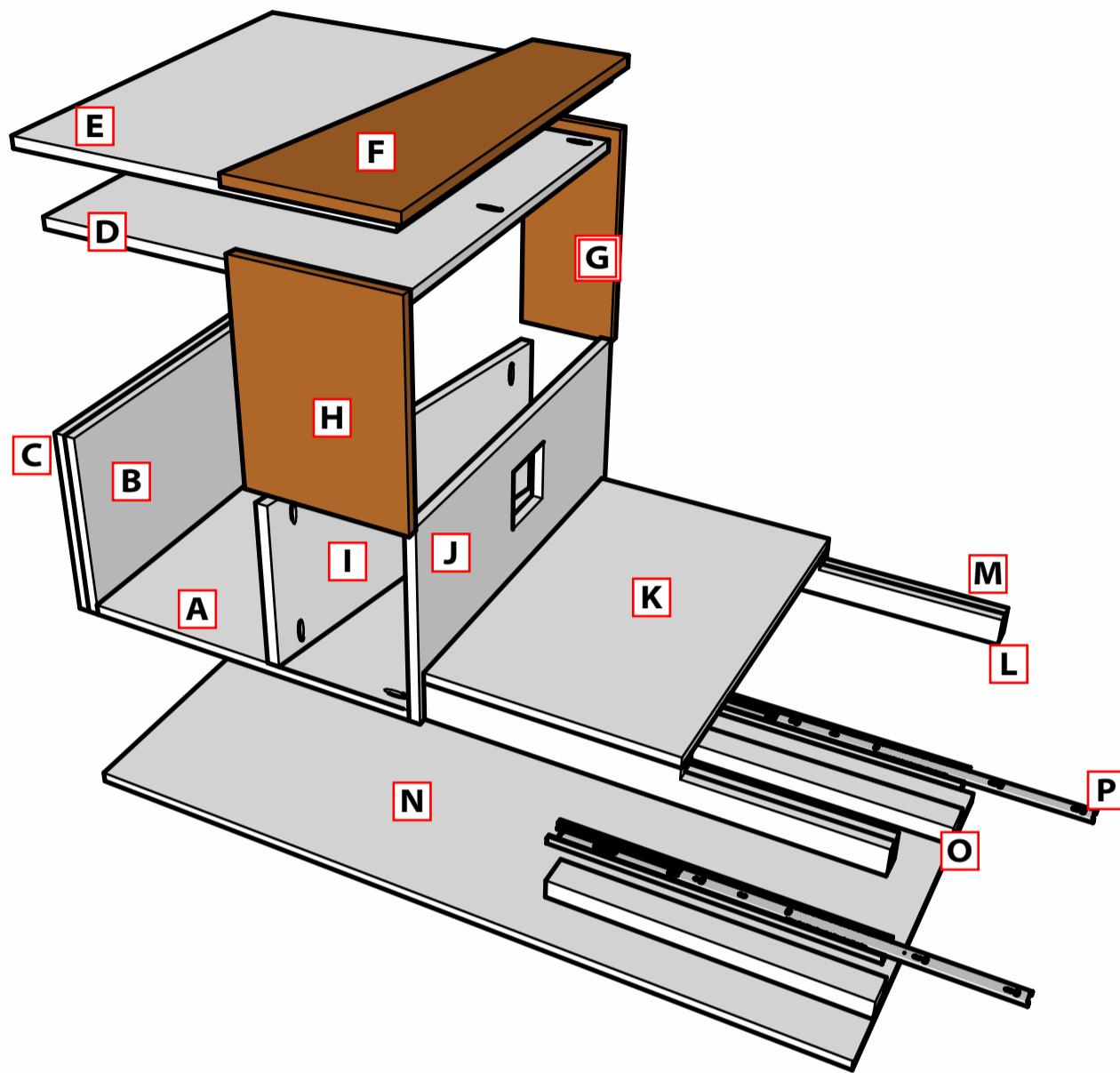




COFFEE TABLE

WITH HIDDEN STORAGE





Tip! After cutting each piece hand write the letters on it to keep track.

COFFEE TABLE WITH HIDDEN STORAGE

 50 1/16" (1271.58mm) **L** X 25 3/8" (644.525mm) **W** X 14 1/8" (358.775mm) **H**

| PART | DESCRIPTION | QTY | LENGTH | WIDTH | DEPTH | MATERIAL | PROFILE | | |
|----------|------------------------|-----|----------|----------|----------|----------|---------|---------|---------------------|
| A | MAIN BODY BOTTOM INNER | 1 | 24 | 609.6 | 21 5/16 | 541.3375 | 11/16 | 17.4625 | 3/4" PLYWOOD |
| B | MAIN BODY SIDE INNER | 1 | 24 | 609.6 | 12 1/16 | 306.3875 | 11/16 | 17.4625 | 3/4" PLYWOOD |
| C | MAIN BODY SIDE OUTER | 1 | 24 | 609.6 | 12 1/16 | 306.3875 | 11/16 | 17.4625 | 3/4" PLYWOOD |
| D | MAIN BODY TOP INNER | 1 | 24 | 609.6 | 21 5/16 | 541.3375 | 11/16 | 17.4625 | 3/4" PLYWOOD |
| E | MAIN BODY TOP OUTER | 1 | 24 | 609.6 | 22 11/16 | 576.2625 | 11/16 | 17.4625 | 3/4" PLYWOOD |
| F | ACCENT TOP | 1 | 25 3/8 | 644.525 | 10 | 254 | 11/16 | 17.4625 | 3/4" PLYWOOD |
| G | NARROW ACCENT SIDE | 1 | 13 7/16 | 341.3125 | 6 | 152.4 | 11/16 | 17.4625 | 3/4" PLYWOOD |
| H | WIDE ACCENT SIDE | 1 | 13 7/16 | 341.3125 | 10 | 254 | 11/16 | 17.4625 | 3/4" PLYWOOD |
| I | ANGLED DIVIDER | 1 | 24 | 609.6 | 10 11/16 | 271.4625 | 11/16 | 17.4625 | 3/4" PLYWOOD |
| J | DIVIDER | 1 | 24 | 609.6 | 12 3/4 | 323.85 | 11/16 | 17.4625 | 3/4" PLYWOOD |
| K | REMOVABLE COVER | 1 | 23 | 584.2 | 15 | 381 | 11/16 | 17.4625 | 3/4" PLYWOOD |
| L | SLIDE SUPPORT INNER | 2 | 26 | 660.4 | 2 1/2 | 63.5 | 11/16 | 17.4625 | 3/4" PLYWOOD |
| M | SLIDE SUPPORT OUTER | 2 | 26 | 660.4 | 2 1/2 | 63.5 | 11/16 | 17.4625 | 3/4" PLYWOOD |
| N | MAIN BODY BOTTOM | 1 | 49 3/8 | 1254.125 | 24 | 609.6 | 11/16 | 17.4625 | 3/4" PLYWOOD |
| O | DRAWER SLIDE BASE | 2 | 19 11/16 | 500.0625 | 2 | 50.8 | 1 5/16 | 33.3375 | |
| P | DRAWER SLIDES | 2 | | | | | | | |
| Q | SLIDER TOP OUTER | 1 | 26 | 660.4 | 25 3/8 | 644.525 | 11/16 | 17.4625 | 3/4" PLYWOOD |
| R | SLIDER TOP INNER | 1 | 26 | 660.4 | 24 | 609.6 | 11/16 | 17.4625 | 3/4" PLYWOOD |
| S | SLIDER SIDES | 2 | 26 | 660.4 | 13 7/16 | 341.3125 | 11/16 | 17.4625 | 3/4" PLYWOOD |
| T | SLIDE GUIDES | 2 | 26 | 660.4 | 1/2 | 12.7 | 11/16 | 17.4625 | 3/4" PLYWOOD |
| U | SLIDE END CUBBY SIDE | 2 | 10 1/4 | 260.35 | 8 5/16 | 211.1375 | 11/16 | 17.4625 | 3/4" PLYWOOD |
| V | SLIDE END CUBBY BACK | 1 | 24 | 609.6 | 10 1/4 | 260.35 | 11/16 | 17.4625 | 3/4" PLYWOOD |
| W | SLIDE END CUBBY BOTTOM | 1 | 22 5/8 | 574.675 | 8 5/16 | 211.1375 | 11/16 | 17.4625 | 3/4" PLYWOOD |
| X | SLIDE END BOTTOM TRIM | 1 | 25 3/8 | 644.525 | 3 3/16 | 80.9625 | 11/16 | 17.4625 | 1" x 4" SELECT PINE |
| Y | SLIDE END TOP TRIM | 1 | 25 3/8 | 644.525 | 1 3/8 | 34.925 | 11/16 | 17.4625 | 1" x 2" SELECT PINE |
| Z | SLIDE END SIDE TRIM | 2 | 9 9/16 | 242.8875 | 1 3/8 | 34.925 | 11/16 | 17.4625 | 1" x 2" SELECT PINE |

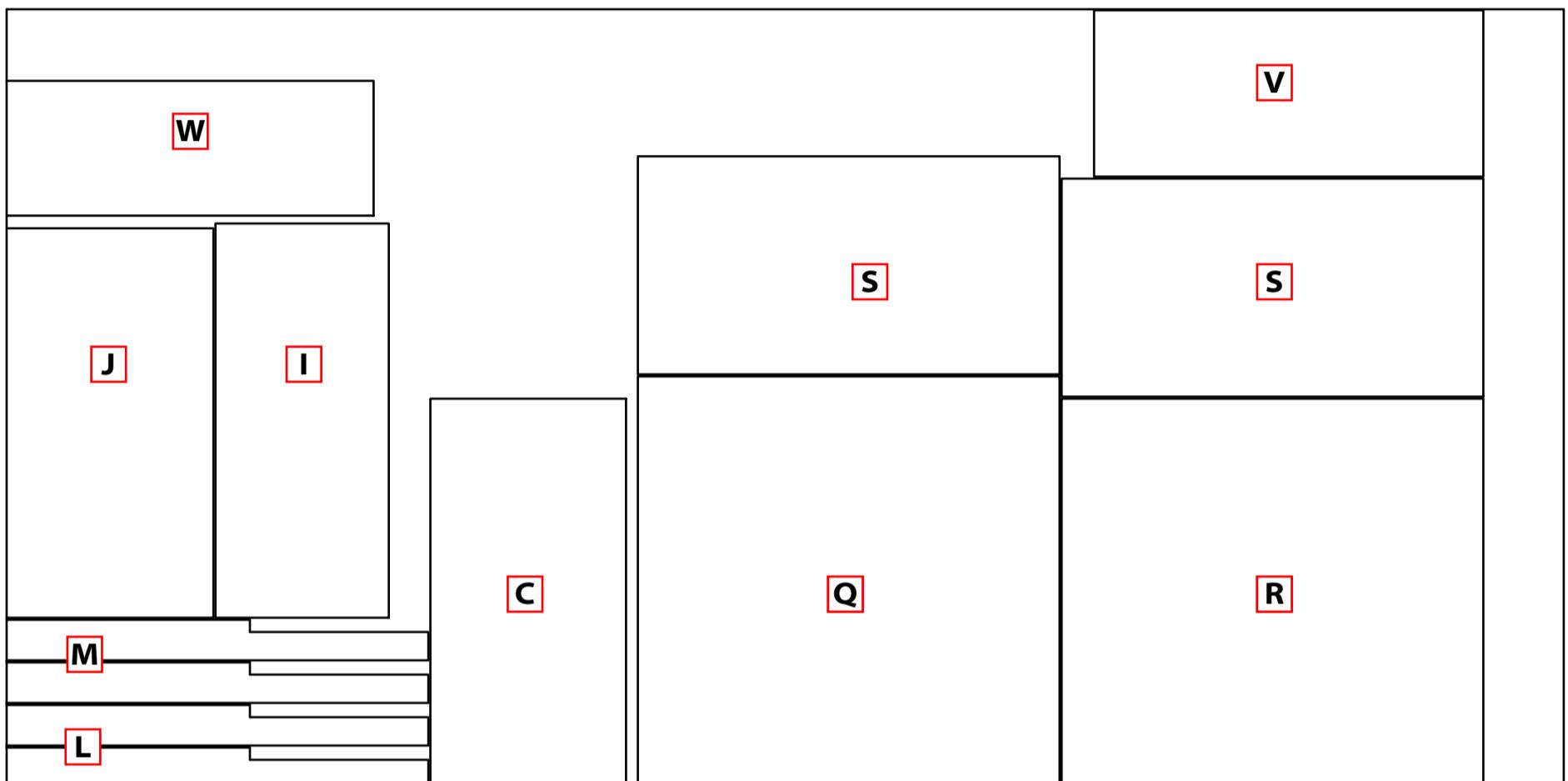
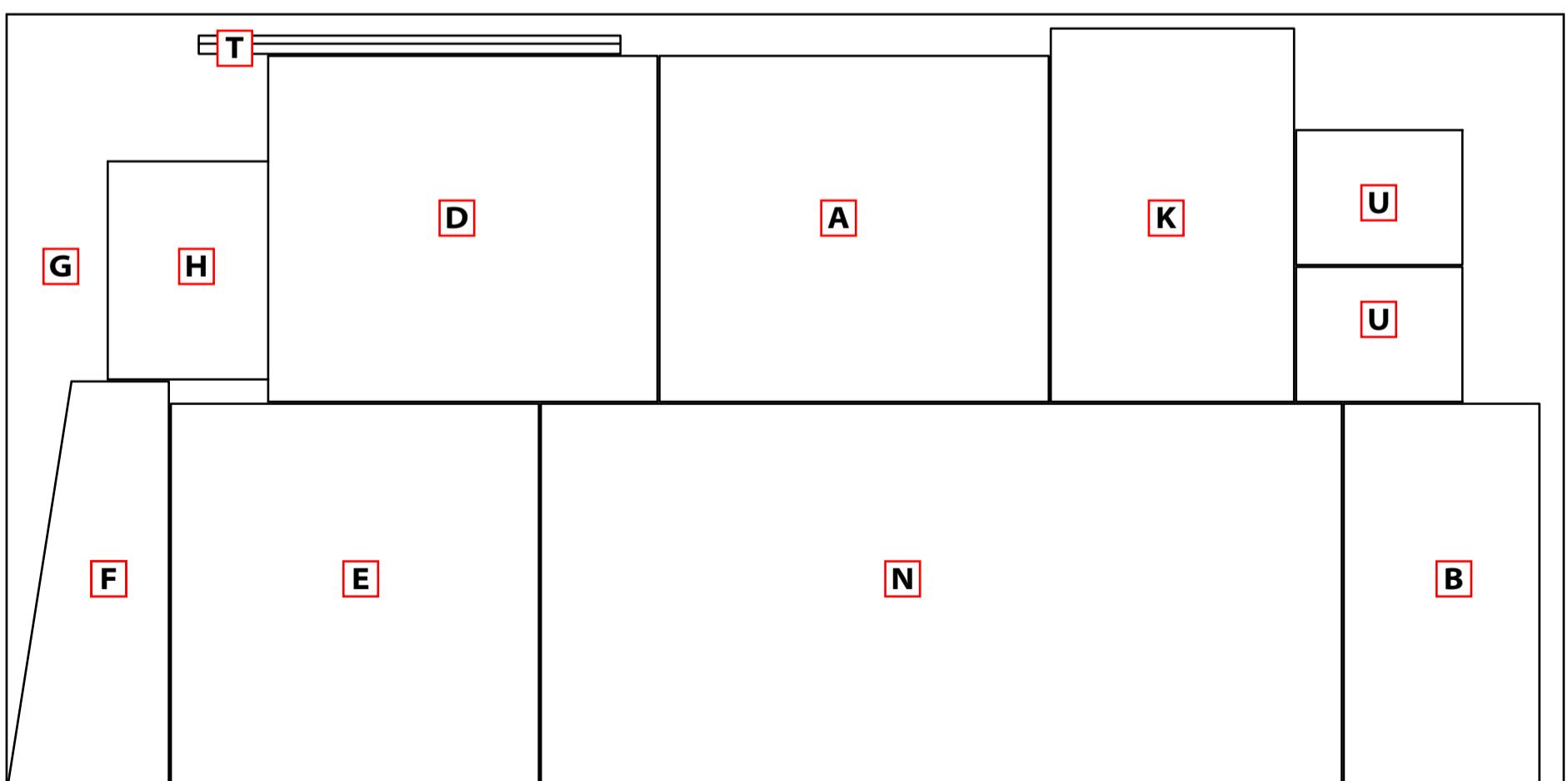
Note: Read through the entire manual prior to starting to get a greater understanding. The coffee table is double layered plywood; use wood glue throughout to ensure a strong build.

TOOLS NEEDED

- Circular saw
- Table saw
- Clamps
- Pocket hole Jig
- Hand saw
- Mallet
- Drill
- Sander
- Heat Gun
- Wood Glue

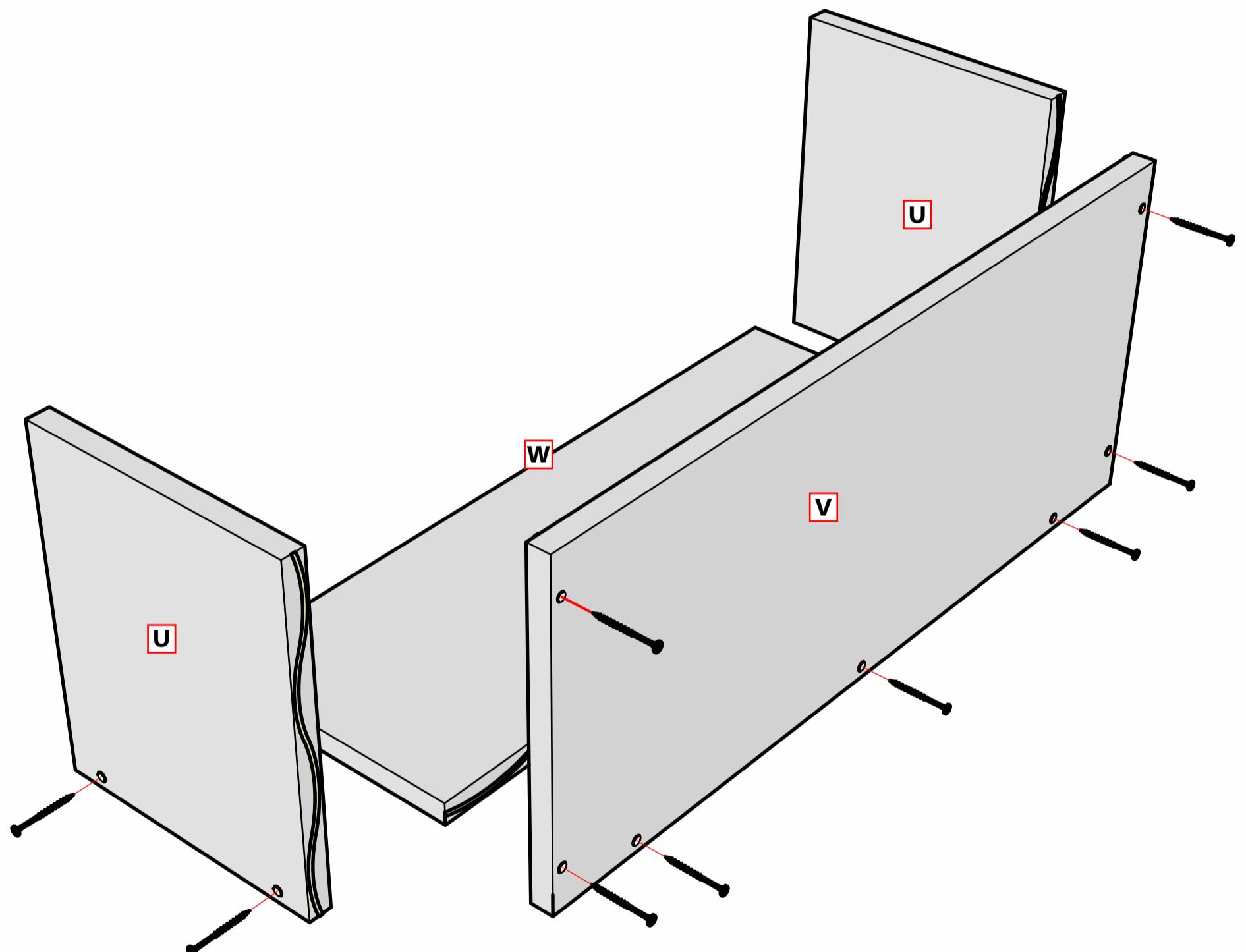
Note: These are the parts and pieces used in this project. Please look though the list for a better understanding of what was used. Only purchase what you want or need. If you use these parts I can help you with troubleshooting via the email address on the last page. Keep in mind if you don't know want to motorized your coffee table you can certainly open it manually without the actuator.

| Quantity | Description | Links |
|-----------------------------------|---|---|
| Theater Solution | | |
| 1 | 4K Projector | https://amzn.to/2RQVOFZ |
| 1 | Sound Bar & Sub | https://amzn.to/2W4FNey |
| 1 | Sound Bar Rear Speakers | https://amzn.to/2FMrDJq |
| Lumber | | |
| 2 | (3/4in) by (4ft) by (8ft) Plywood Sheet | LOCAL HARDWARE STORE |
| 1 | (1in) by (2in) by (8ft) Select Pine | LOCAL HARDWARE STORE |
| 1 | (1in) by (4in) Select Pine | LOCAL HARDWARE STORE |
| Actuator and LED Parts | | |
| 1 | 12in stroke Actuator | https://ban.ggood.vip/a6sp |
| 1 | Actuator mounting bracket | https://ban.ggood.vip/4h3y |
| 1 | (3in long) 1/4 bolt and nut for the Actuator (anchor to the base) | LOCAL HARDWARE STORE |
| 1 | (1 1/4in long) 1/4 bolt and nut (connects the bracket to the actuator) | LOCAL HARDWARE STORE |
| 5 | 1/4in washer (for 1/4in bolts) | LOCAL HARDWARE STORE |
| 2 | (1/2in long) 1/4in bolt (Attach the bracket to the plate) | LOCAL HARDWARE STORE |
| 1 | (4in) by (3in) by (1/8in) piece of metal plate (mounting plate) | LOCAL HARDWARE STORE |
| 4 | (3/4in long) #8 Woodscrew (attach the mounting plate to the wood) | LOCAL HARDWARE STORE |
| 1 | 12v Power Supply (Power up the receiver for the actuator) | https://amzn.to/2Dtuq8N |
| 1 | Wireless Receiver and Remote | https://amzn.to/2RXmUeu |
| 1 | Popup outlet | https://amzn.to/2TXTIkW |
| 1 | LED Channel kit | https://amzn.to/2MIVGsK |
| 1 | LED Light and Power supply Kit | https://amzn.to/2U5IJpG |
| 1 | 25 ft. Extensions cord | https://amzn.to/2MpE6UQ |
| Hardware & Accessories | | |
| 1 | 1.5 in wood Screw | https://amzn.to/2RZQ2BN |
| 1 | 1 1/4 pocket hole screws | https://amzn.to/2szCui5 |
| 1 | Magnetic Catch (removable cover) | https://amzn.to/2CC65fd |
| 1 | Drawer Slide | https://amzn.to/2MpD8YI |
| 1 | Chrome furniture feet set of 4 | https://amzn.to/2DsEyi4 |
| 1 | 2- Gang mounting bracket (access Panel) | https://amzn.to/2FOCYzI |
| 1 | Wall plate cover (access Panel) | https://amzn.to/2RR08Fd |
| Vinyl wrap and tools | | |
| 1 | Vinyl wrap | https://amzn.to/2T9kPJW |
| 1 | Vinyl Gloves | https://amzn.to/2T4pNrj |
| 1 | Vinyl knife | https://amzn.to/2T4W0if |
| 1 | Vinyl Spreader | https://amzn.to/2W7uB0J |

PLYWOOD #1**PLYWOOD #2**

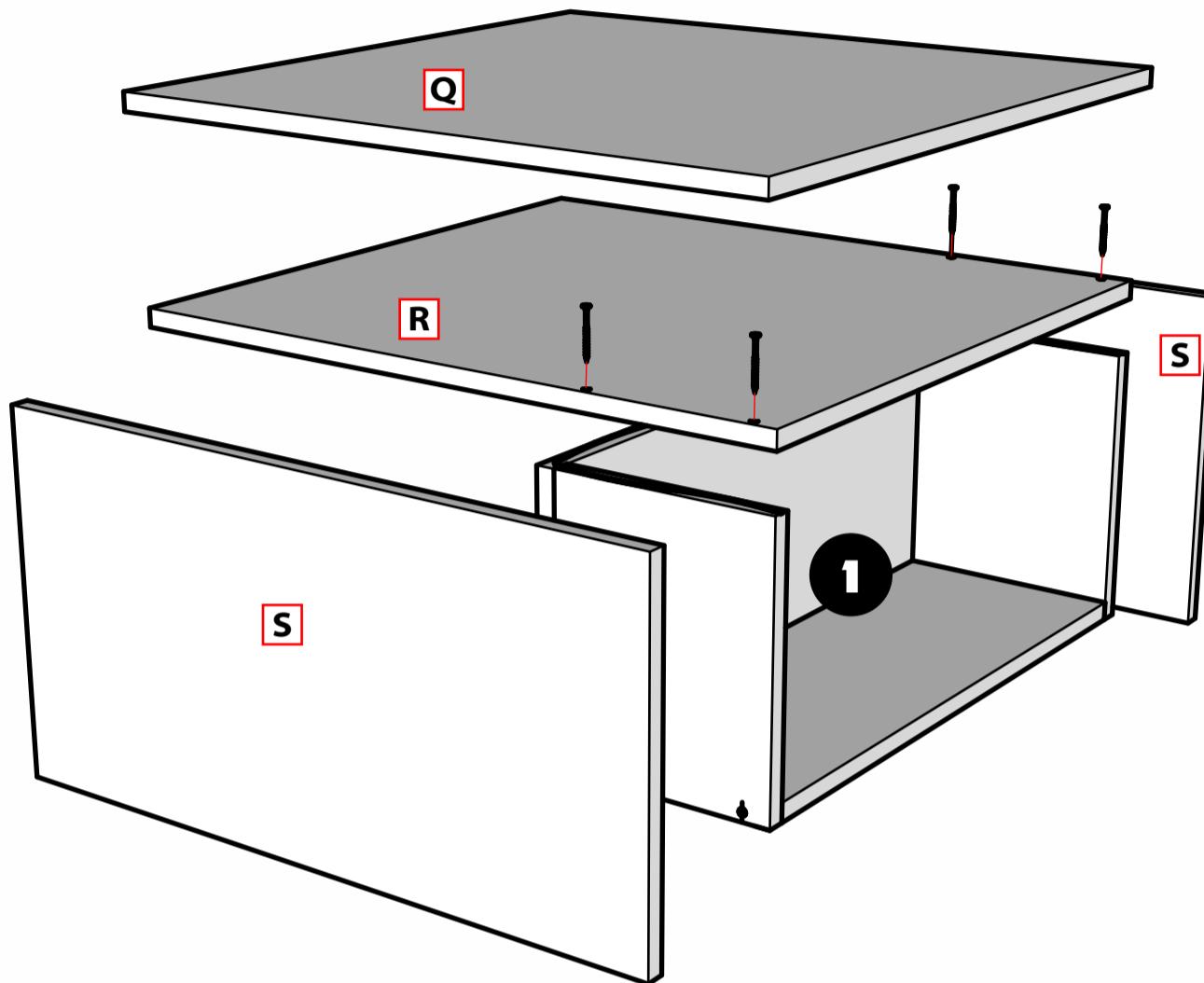
1

Locate the following parts **(U)** **(V)** **(W)**, then check to make sure each piece is adequately aligned. Next, apply wood glue to the joints. Finally, predrill and add the screws.

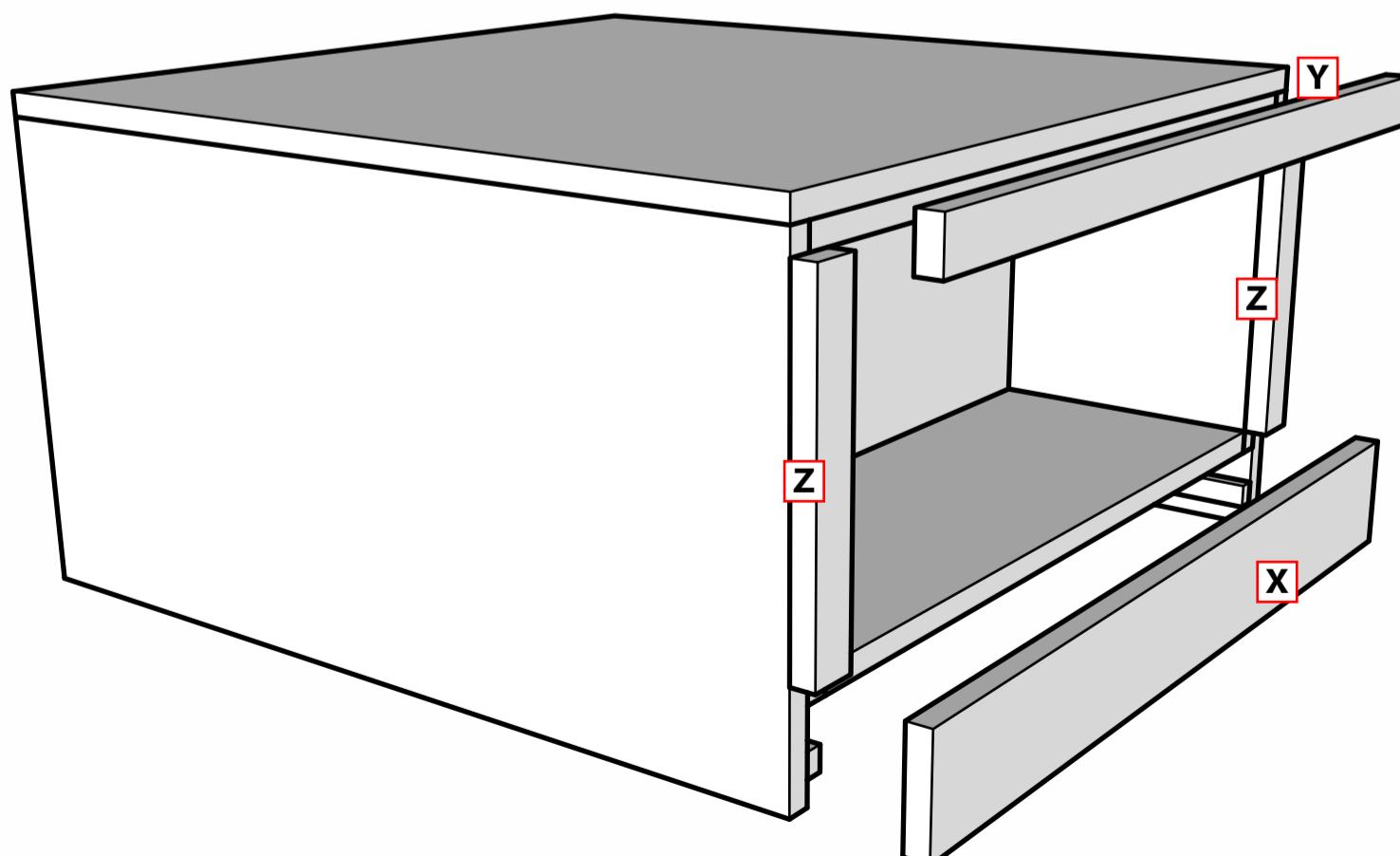


2

Locate the following parts **(Q)** **(R)** **(S)**. Start by attaching pieces **(R)** to the structure assembled in step 1. Then connect both parts **(S)** to the sides followed by part **(Q)**.

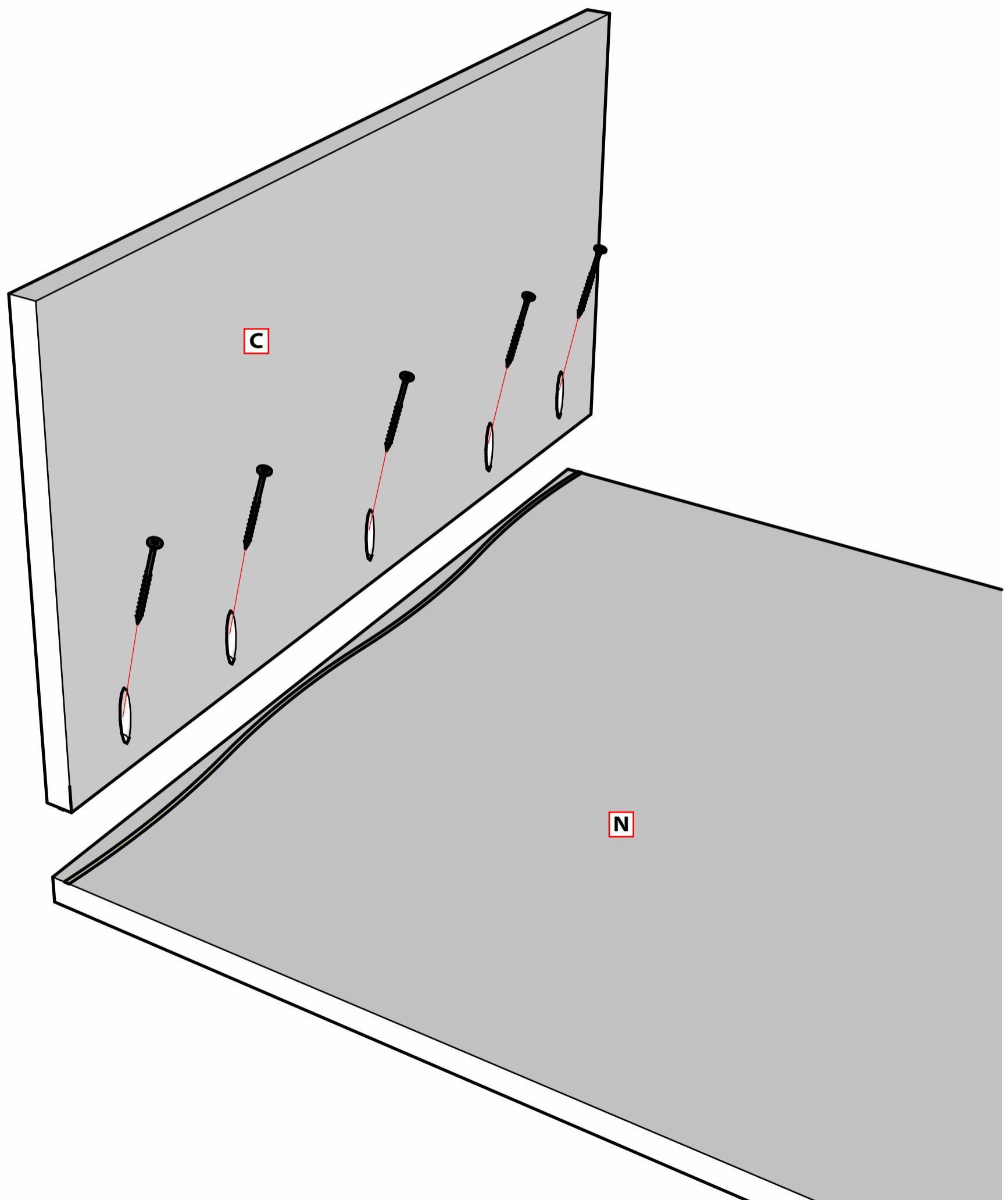


Step 2A: Cover the open ends of the plywood by attaching the trims. Part **(X)** **(Y)** and **(Z)**



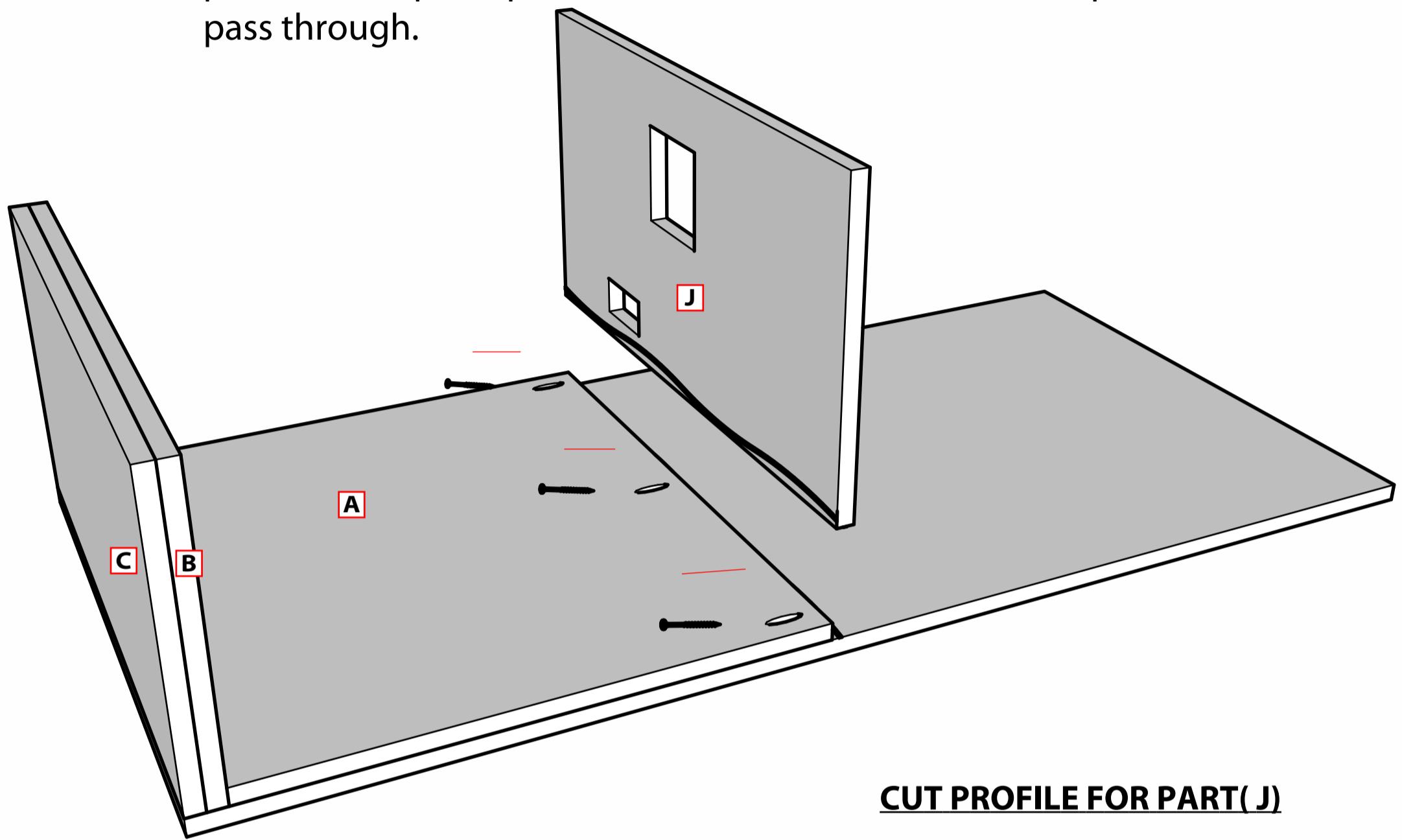
3

Locate the following parts **(C)** and **(N)**. Before attaching, drill pocket holes in component **(C)** or screw from underneath. Be sure to use wood glue for a stronger joint.

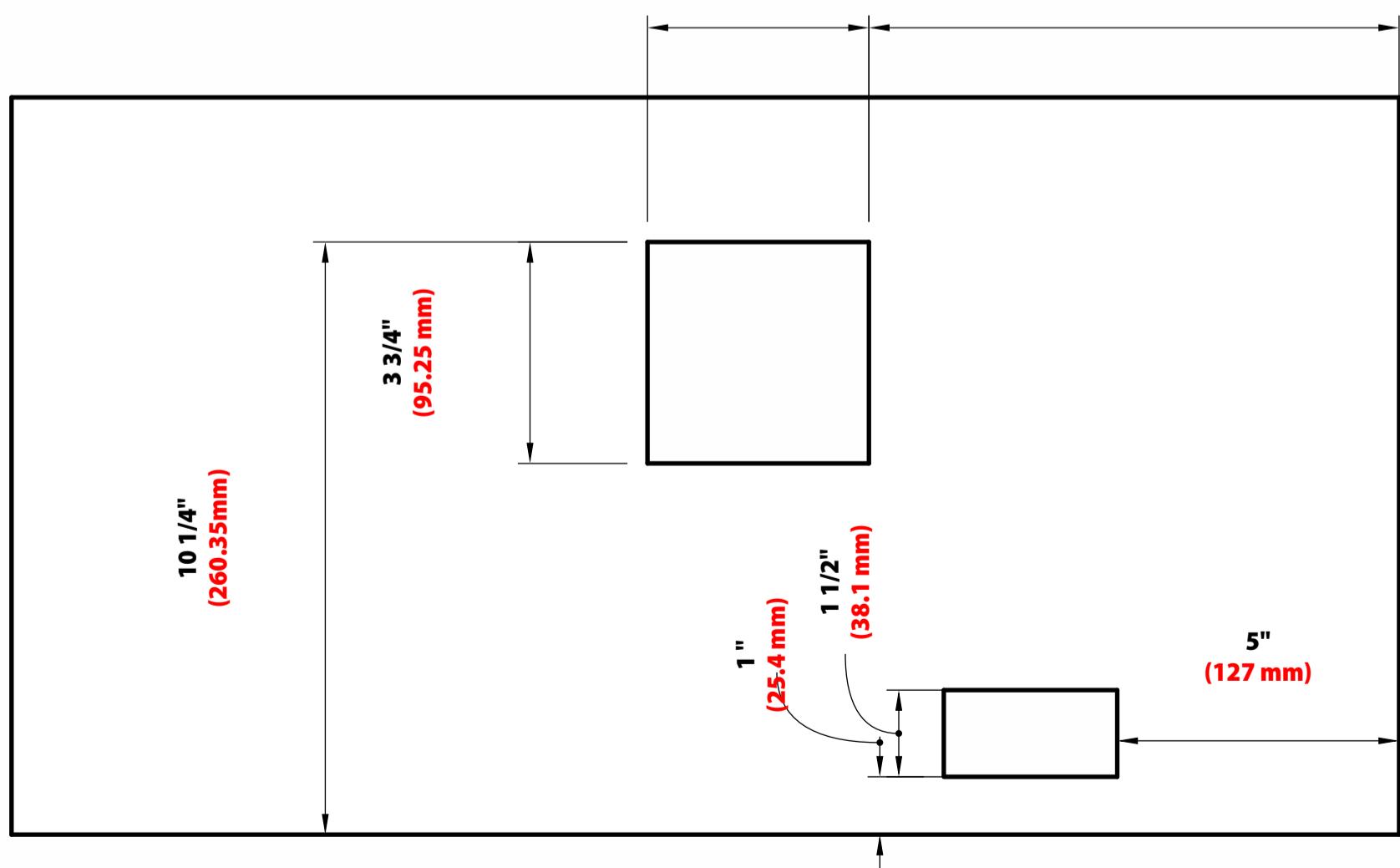


4

Use wood glue to adhere part (B) to (C). Then, place part (A) up against part (B) as shown. Be sure to use wood glue to secure. If you have a nail gun, you can use it to speed up the process. If it's easier, you can cut the opening in part (J) prior attaching. The Large hole is an access panel for the pull-up outlet, and the small hole is for the power cord to pass through.

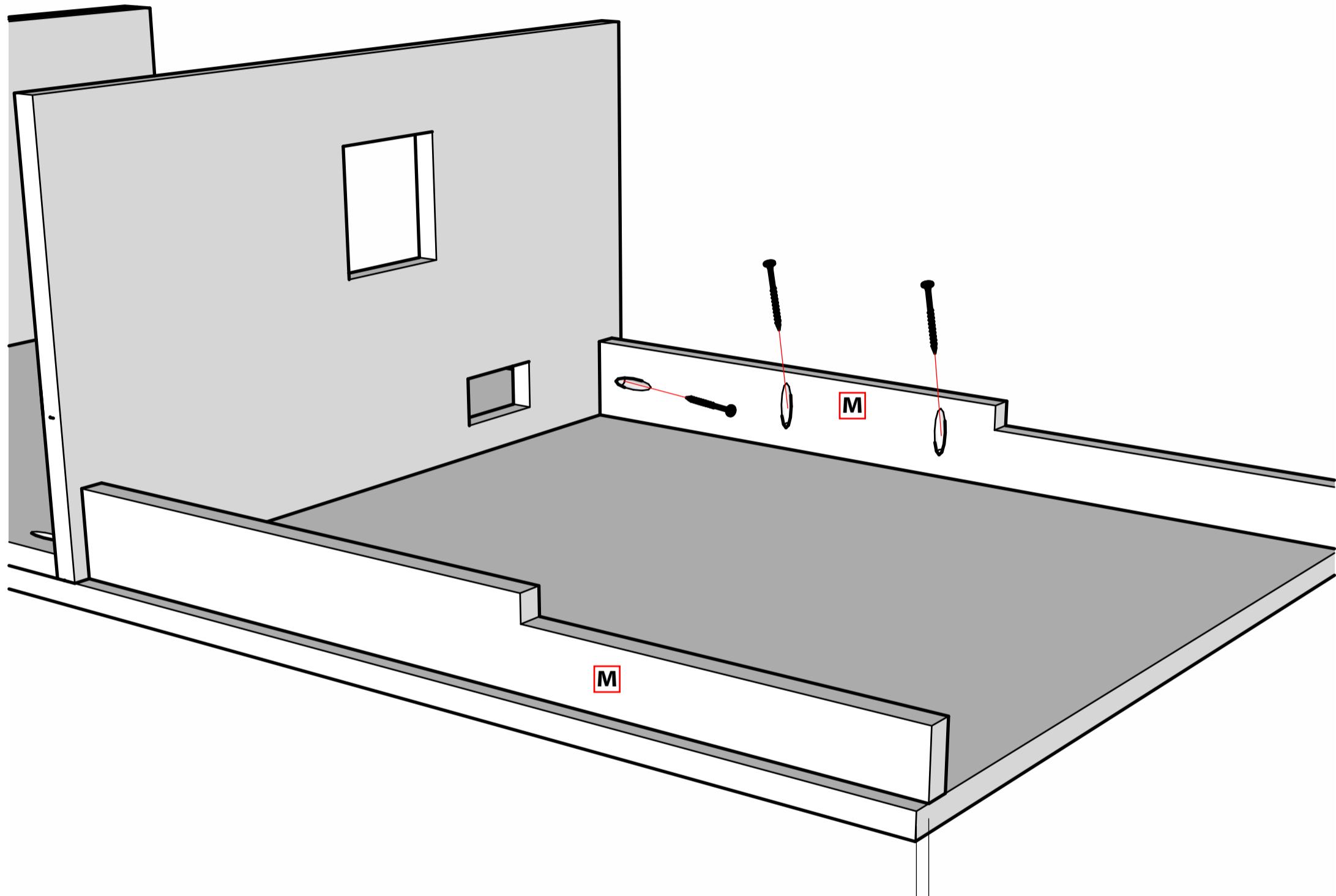


CUT PROFILE FOR PART (J)

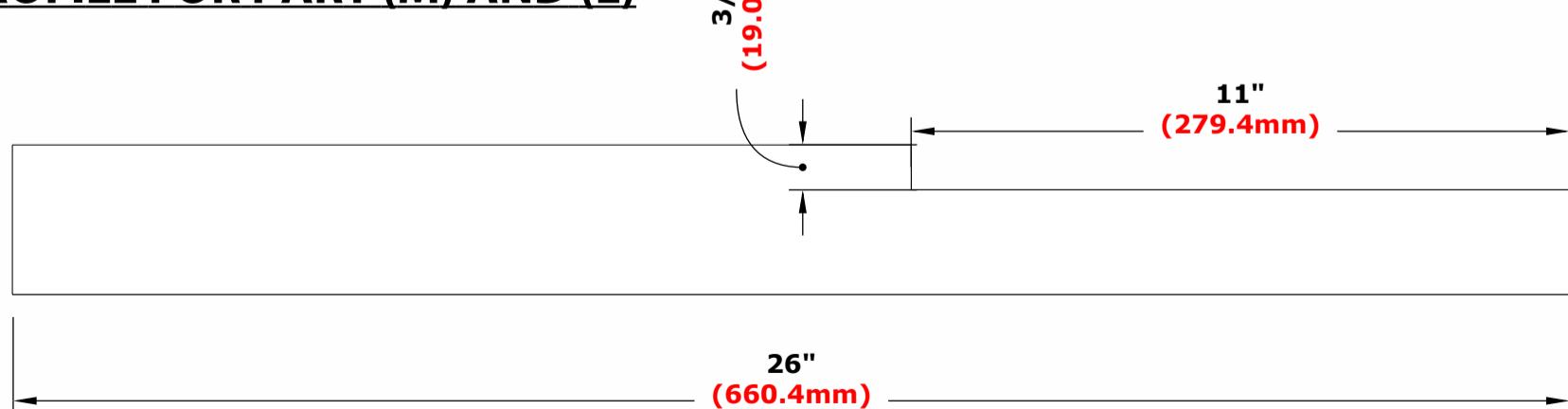


5

Locate Part (M) and install them with pocket hole screws as shown. For the smaller section on (M) screws or nail from beneath



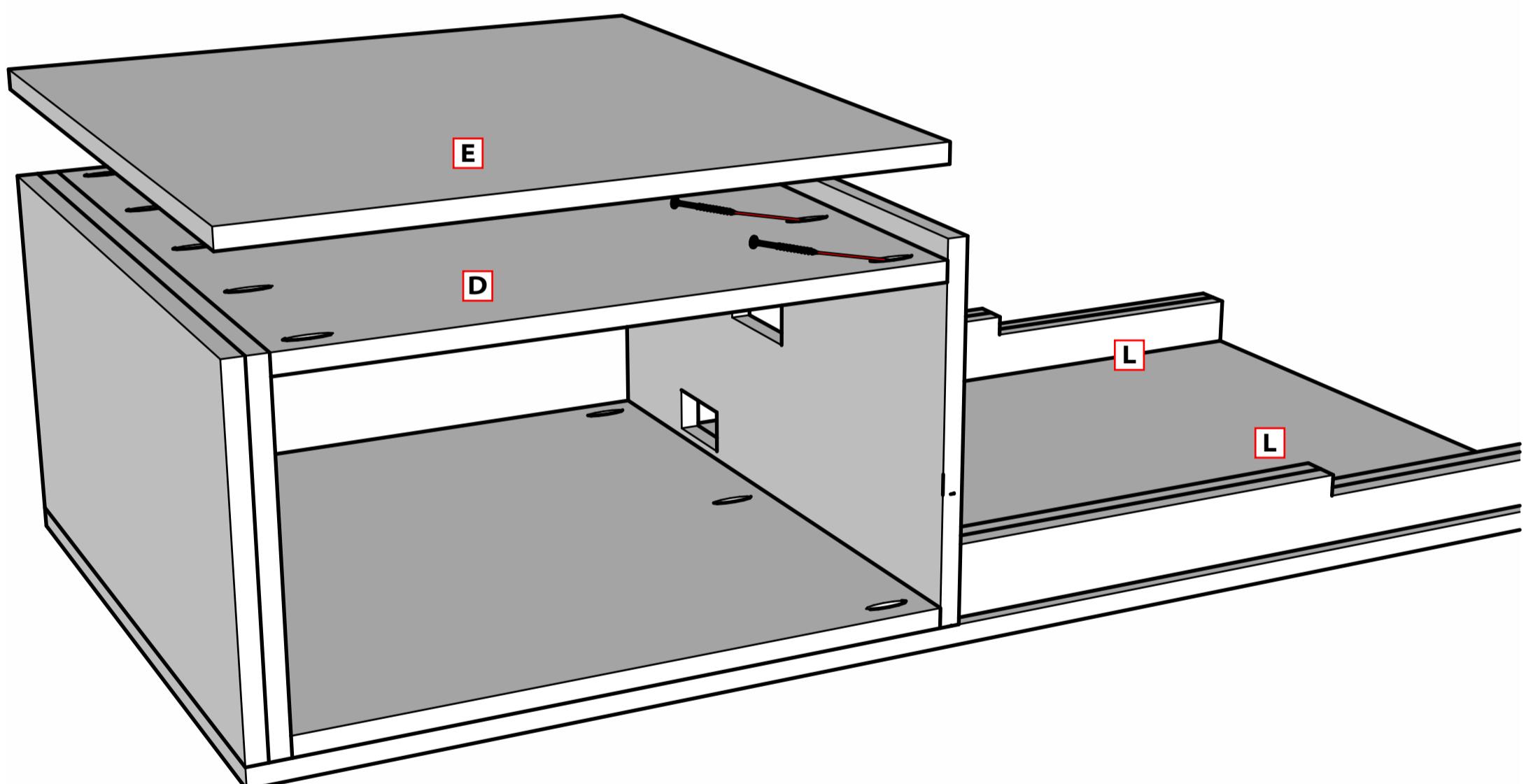
CUT PROFILE FOR PART (M) AND (L)



6

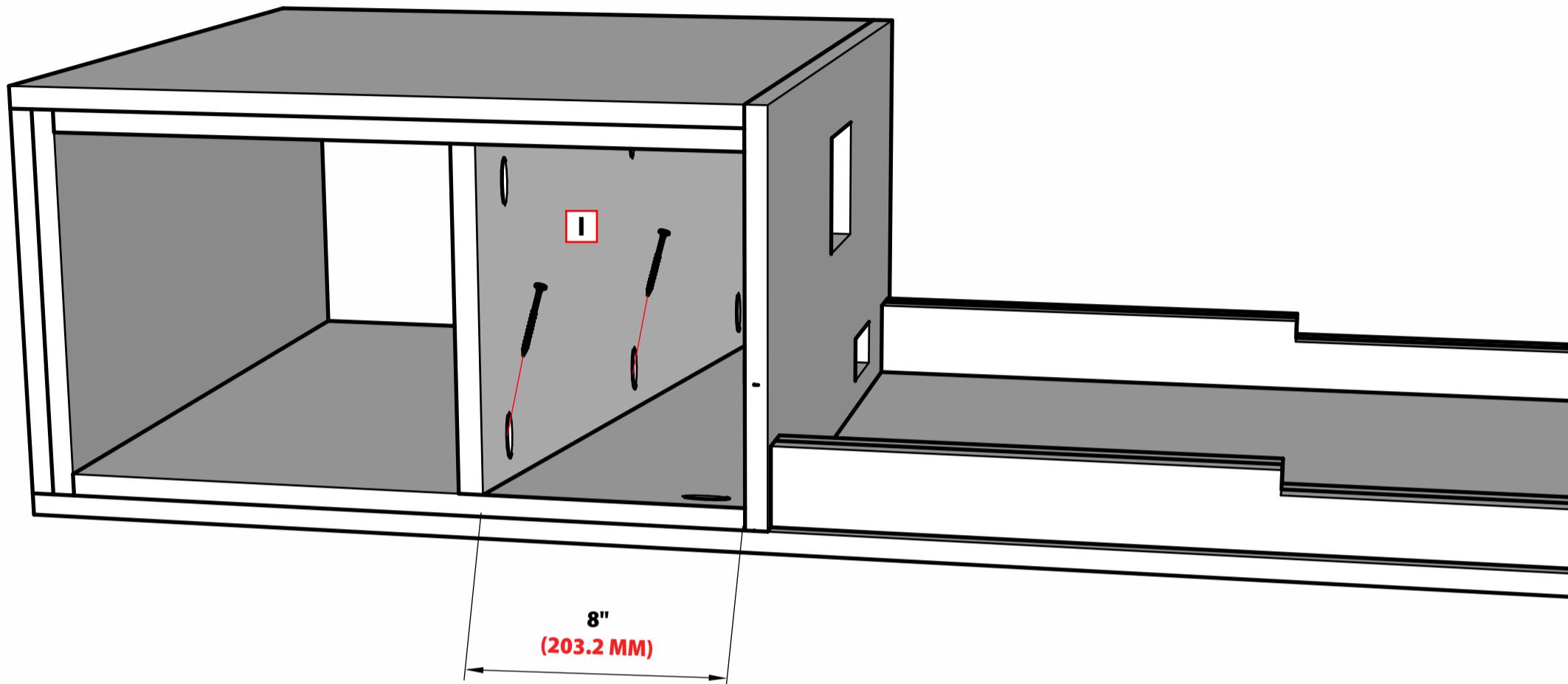
Use Wood Glue to attach part **(L)** on the inside of part **(M)**. These will used to cover the pocket hole screw.

Now, locate part **(D)** and **(E)**. For part **(D)** add pocket holes along the ends. Then, glue and secure part **(E)** down.

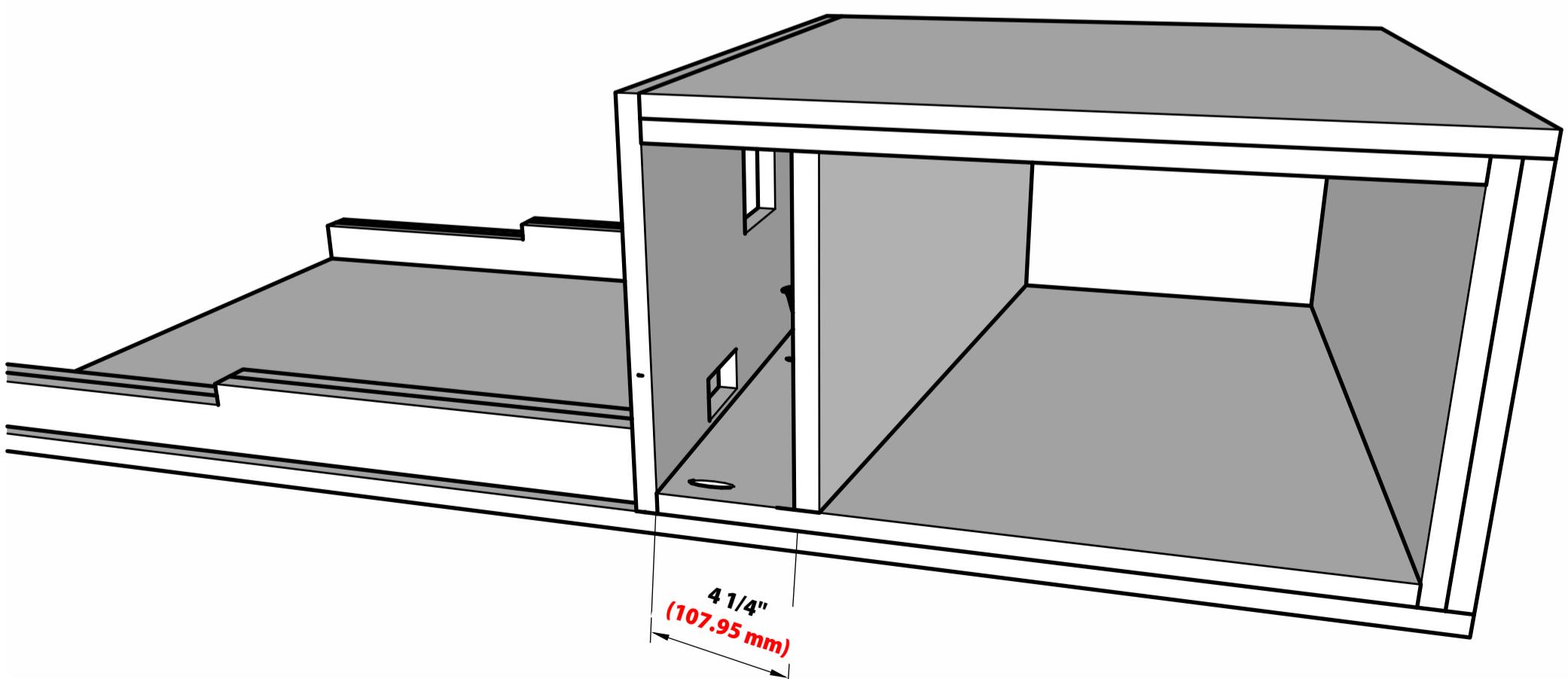
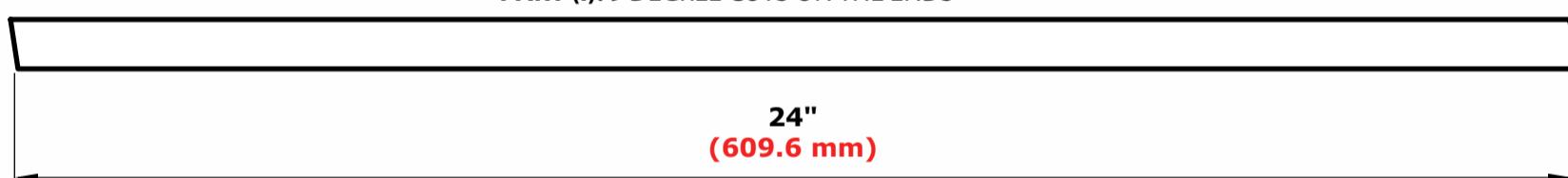


7

Locate part (I) This part should have mitered ends and should line up with parts (F), (G), and (H) in the next step. Dry fit everything to make sure they line up. Note: part (I) has pocket holes along the top and bottom as shown.

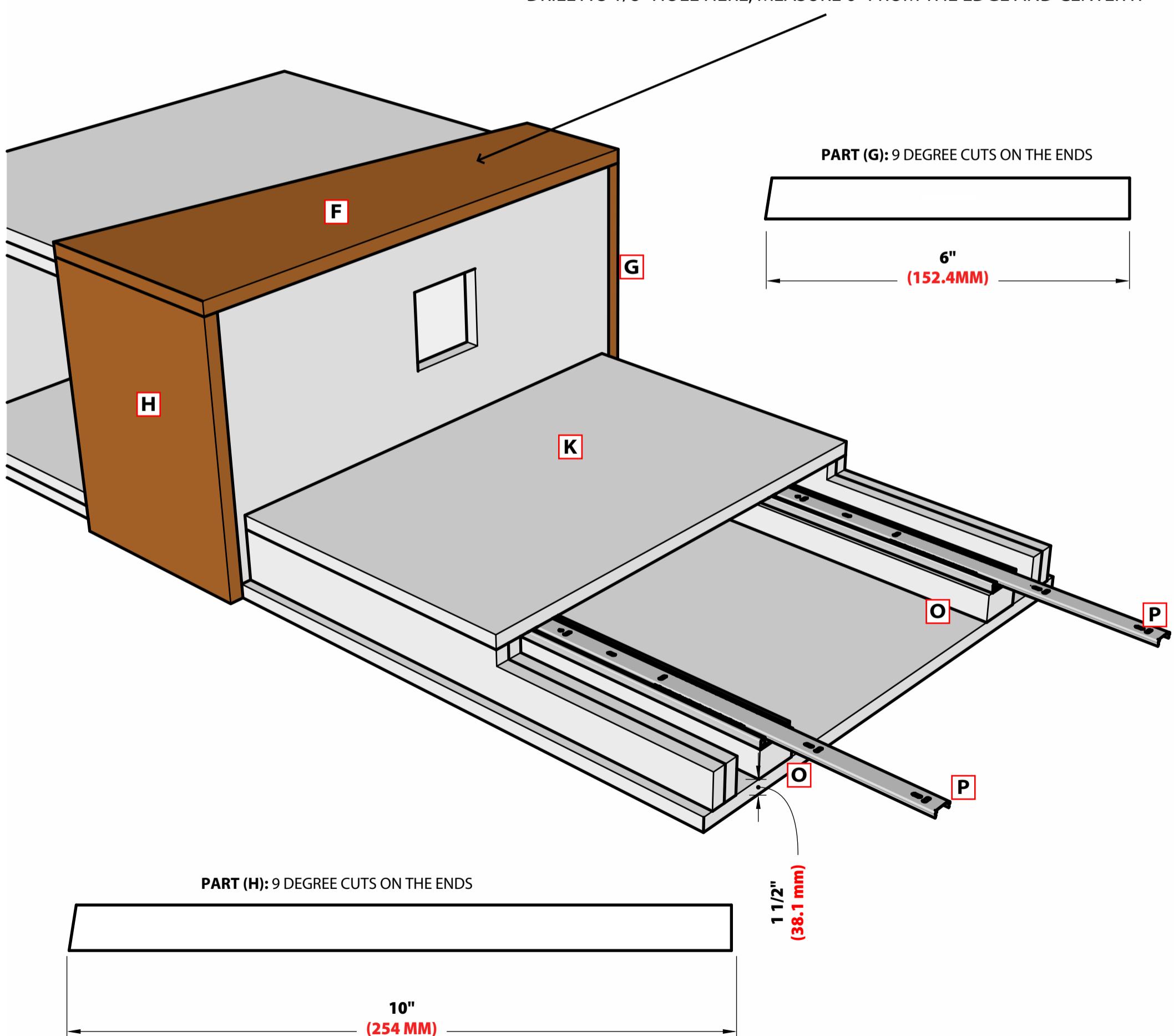


PART (I): 9 DEGREE CUTS ON THE ENDS



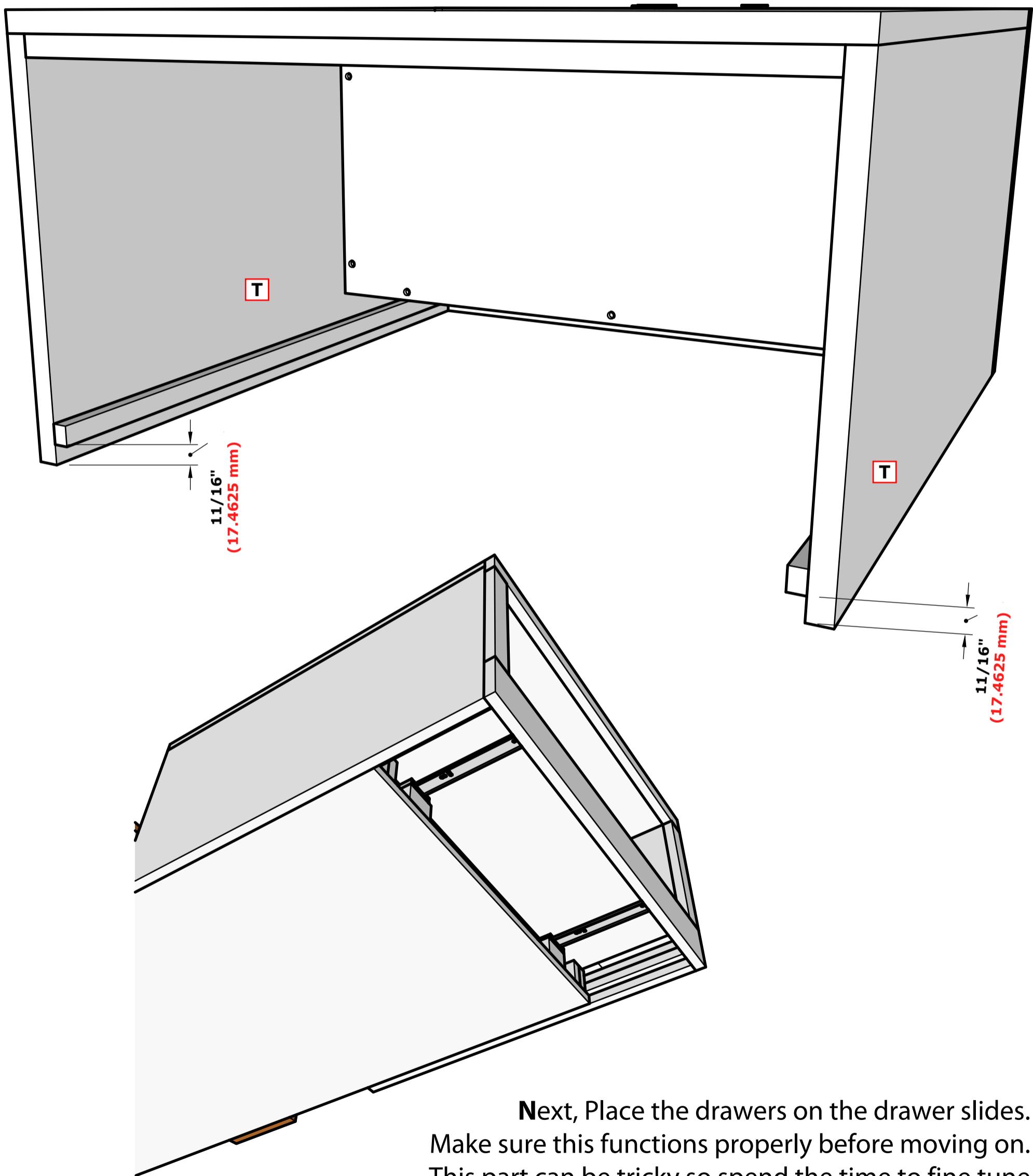
- Install part **(F)**, **(G)** and **(H)**. Used wood glue to secure these parts. You can also use a nail to hold the parts down.
- Part **(K)** is held down with a pair of magnetic catch. These hardware will be installed in a later step to provide easy access.
- If you watched the video part **(O)** was not include. The sliding hardware used was hard to find being that those were salvaged. However, This setup will be a great supplement. Install part **(O)** with screws from beneath. Then, install the drawer slides.

DRILL A 3 1/8" HOLE HERE, MEASURE 6" FROM THE EDGE AND CENTER IT



9

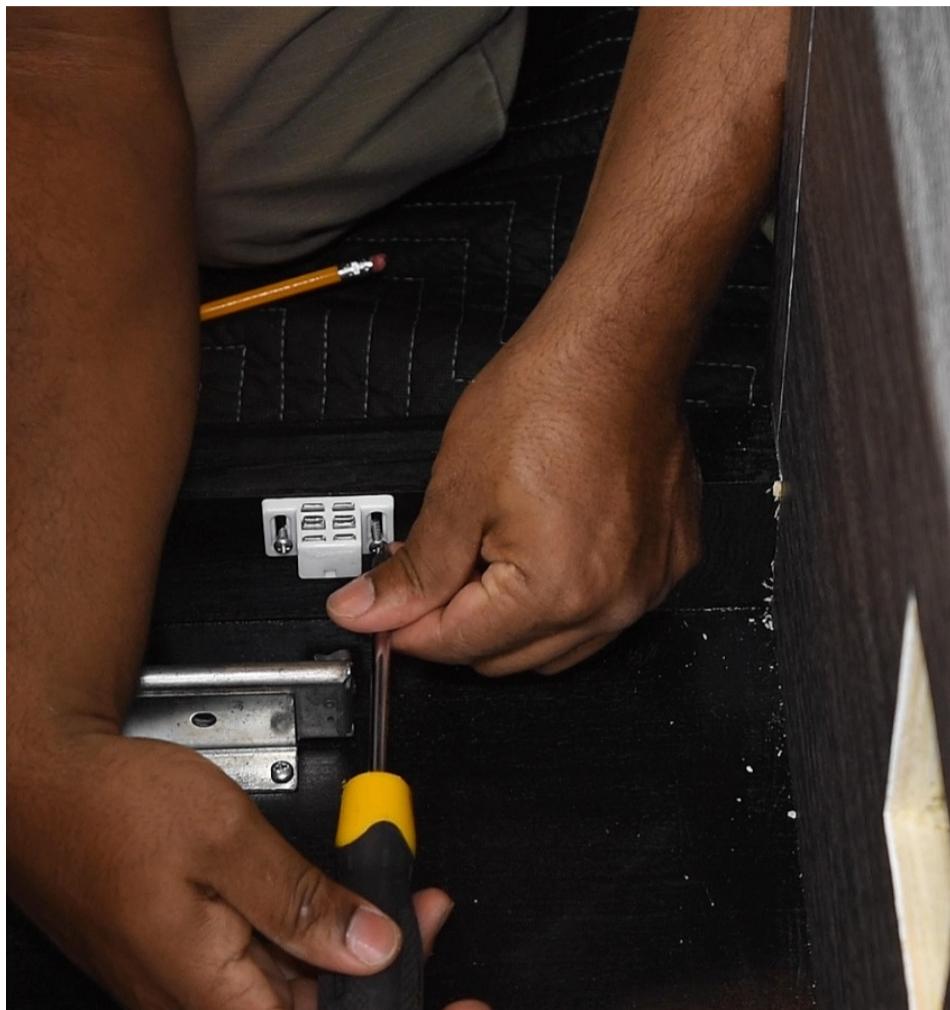
Install part (T). Adding these wood tracks will keep the drawers in the perfect position. Use wood glue and screws to anchor them in place.



Next, Place the drawers on the drawer slides. Make sure this functions properly before moving on. This part can be tricky so spend the time to fine tune.

10

INSTALL THE MAGNETIC CATCH



Finally, install the magnetic catch for the quick removal panel. One on each side. This cover will hide all the electronics and provide a flat surface.

11

SAND AND PAINT



I sand the entire coffee table down with 120 grit sandpaper. Then, I used Bondo body filler to fill in all the imperfections and plywood ends. You may need to repeat this a couple of times to ensure you have a smooth finish. Take a damp warm rag and wipe down the coffee table to remove any sanding dust. Finally, use primer sealer followed by two coats of paint. I used white oil-based paint to finalize. After allowing enough time for the pint fully set up, it was on to the next step

12

APPLY THE VINYL

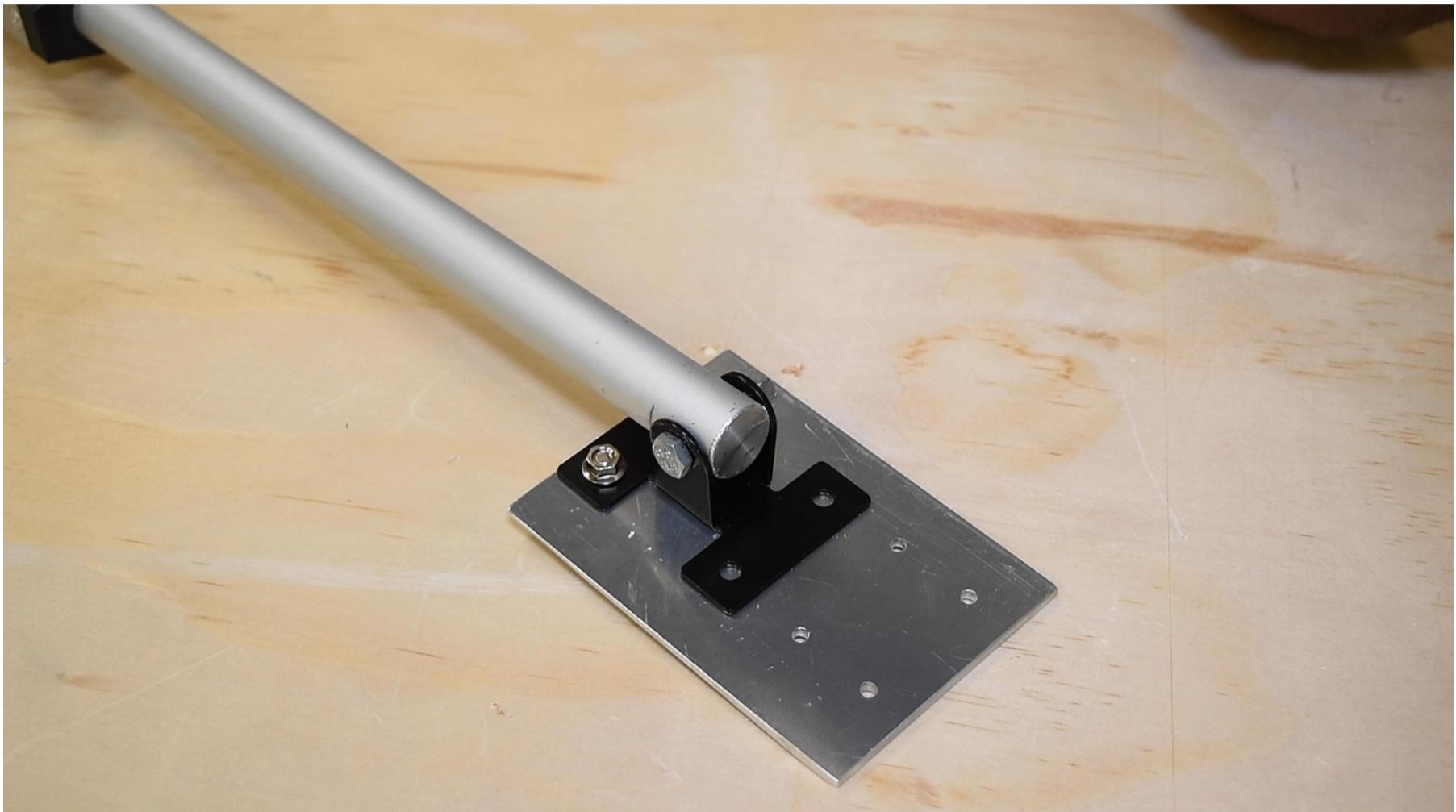


Adding a touch of vinyl truly makes this design stand out. You can find the exact one I used in the materials list. Feel free to explore and put your touch on it by adding something different. Vinyl gave this a professional feel. Vinyl is tricky to apply if you are a newbie. Just start from one end and work your way to the next. You will need a spreader and a very sharp utility knife.

INSTALLING THE ACTUATOR (Make sure you have a 12 in stroke Actuator)

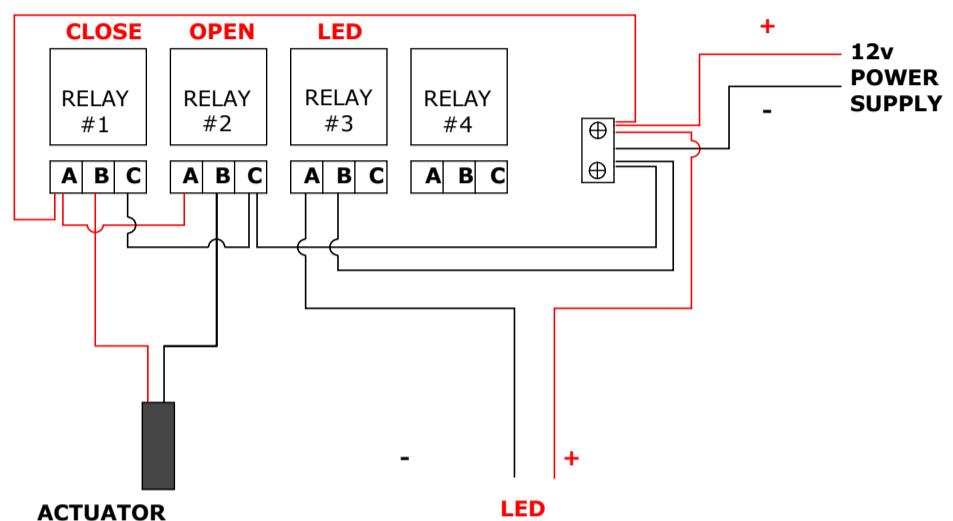
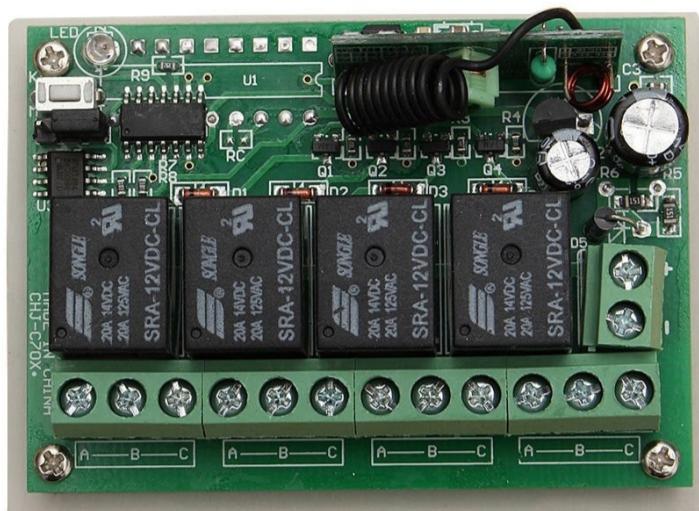
Please feel free to make any modification to fit your setup. These were the steps taken to integrate the actuator into the coffee table.

- You will need a 3in long bolt. The one I used was a $\frac{1}{4}$ thick bolt, but you can use a smaller one. Due to the thickness of the $\frac{1}{4}$ in bolt used, I needed to slightly open in the existing hole to allow the bolt top freely pass through.
- Next, place the actuator in the very center of the coffee table. Then, pin it to back wall. It should put your hole about 1/2in off the wall. Pace a mark then drill out. Make sure the bolt pass through freely.
- Now, install the actuator with the bolt to the coffee table bottom. Then, use a washer and nut underneath the coffee table and tighten it up.

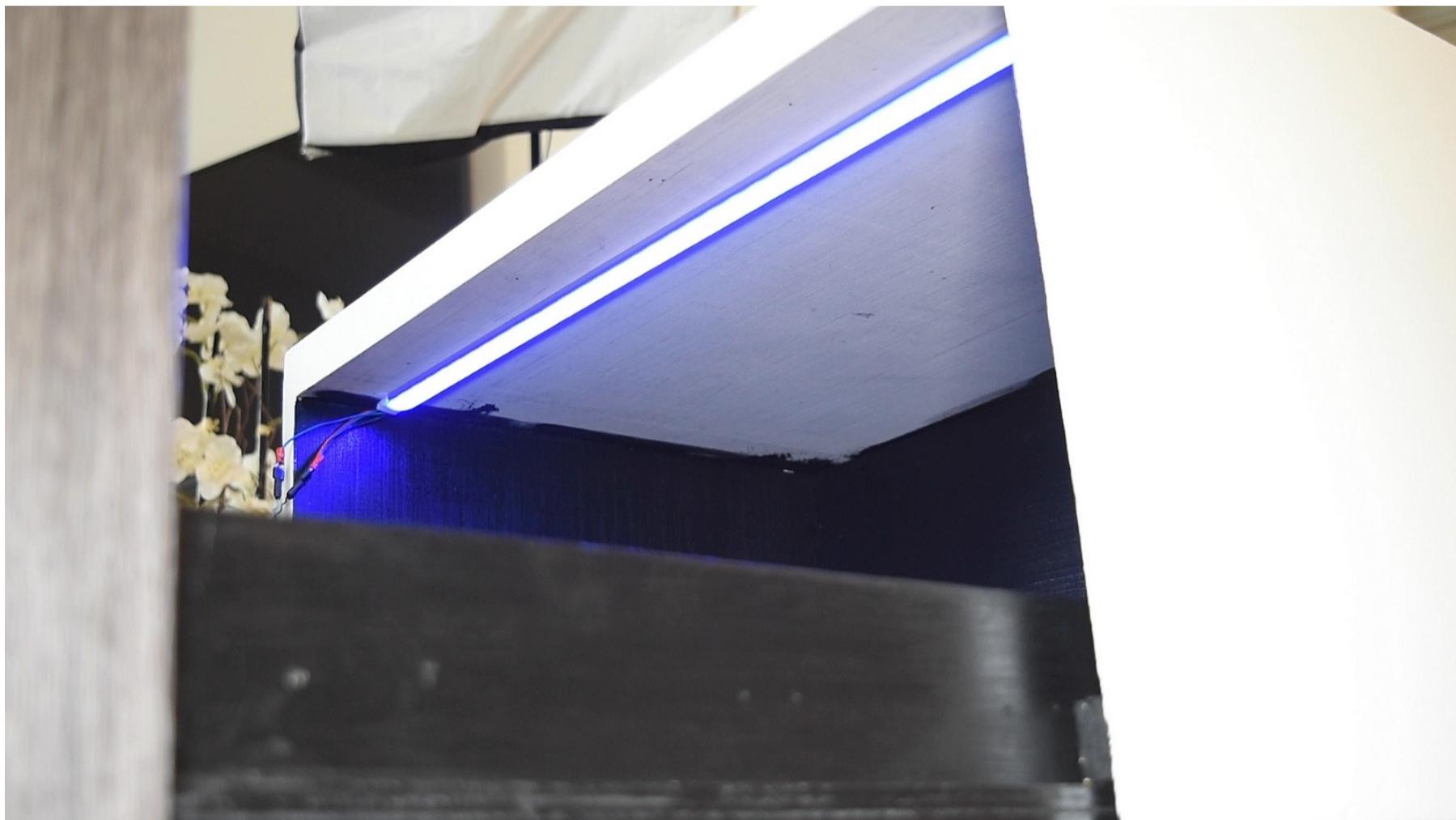
FOR THE MOVING COFFEE TABLE SECTION

- There is a chance you do not need the metal, but it was apart of my fine-tuning process, so I used it. It allows the coffee table to open a few more inches and made it easy to access the connection point.
- To follow these steps, you will need a piece of metal plate. A plate at 3in by 4in by 1/8in thick should be fine.
- Next, line up the actuator bracket with the plate. Drill two holes to connect the bracket to the plate on one side. On the opposite end of the plate drill 4 additional holes to attach the plate to the coffee table.

ACTUATOR HOOK UP WITH REMOTE



- Connect the power wires to the power terminal (do not plug it in the wall) Note: You will need a 12-volt, 2 Amp Power Supply this can be shared with LED. If you plan to power the LED separately you will need an additional power supply to operate the actuator.
- The Actuator will use two relays to operate, **Relay 1** and **Relay 2**. Each relay coordinate with the buttons on the remotes. Keep in mind there is a jumper on the relay board. There are 3 operations you can select; each option offers different functionality.
- Connect the red wire of the actuator to **Relay 1 Terminal (B)**
- Connect the black wire to the actuator to **Relay 2 Terminal (B)**
- Connect a Jumper wire from **Relay 1 Terminal (A)** to **Relay 2 Terminal (A)**
- Connect a Jumper wire from **Relay 1 Terminal (C)** to **Relay 2 Terminal (C)**
- Connect a Jumper from **Relay 1 Terminal (A)** to Power Terminal (+)
- Connect a Jumper from **Relay 2 Terminal (C)** to Power Terminal (-)

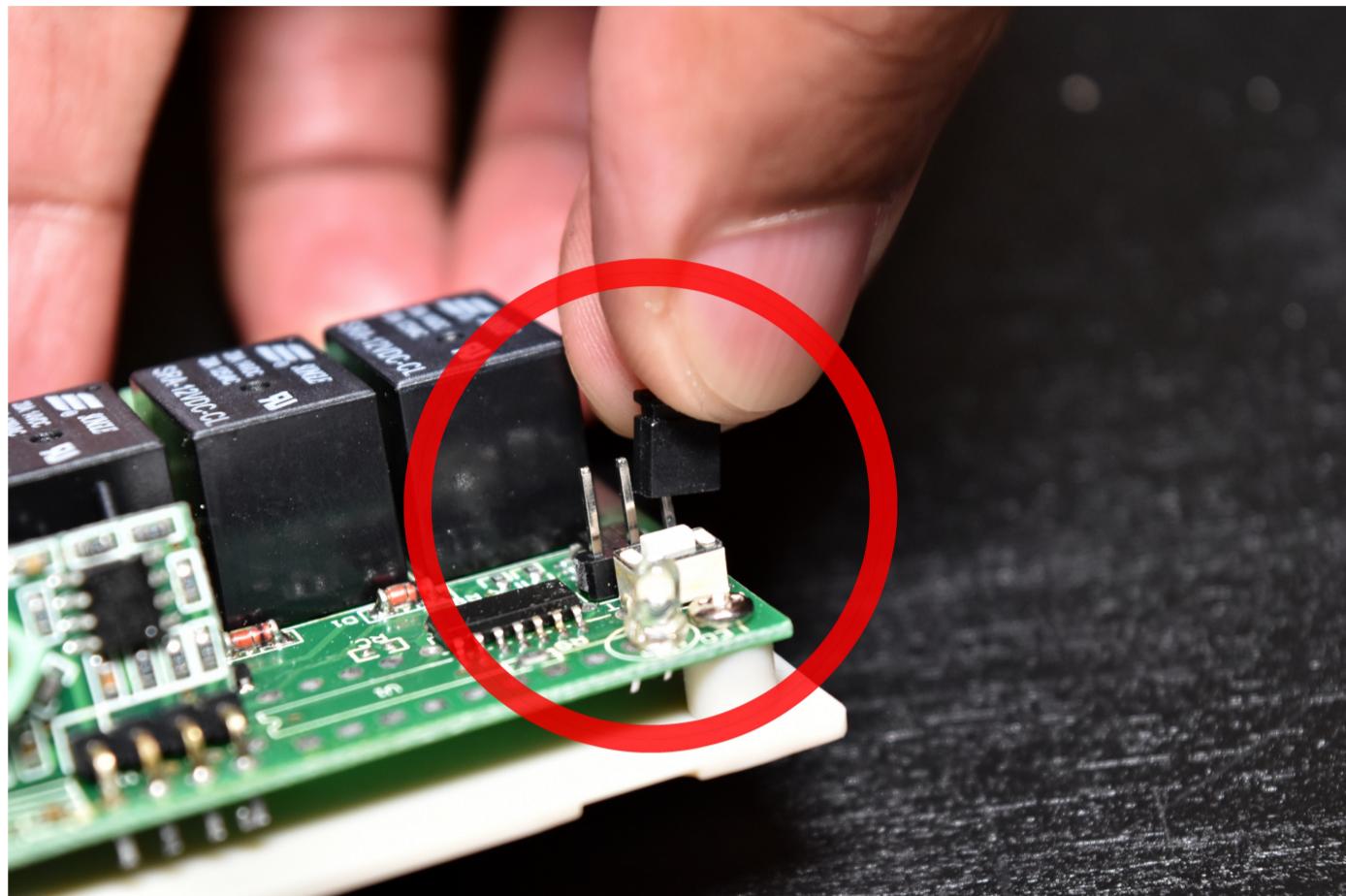


SINGLE COLOR LED HOOKUP INTEGRATION

- With this connection, you can only have one color to control. For more color options, I would suggest using a LED and controller kit. Otherwise, follow these steps.
- Connect the Black wire from the LED harness to Relay #3 Terminal (A)
- Pick one of the remaining colors (I used blue) connect it to Power Terminal (+)
- By default Button (C) on the remote will control Relay 3 allowing you to control the LED.

MULTI COLOR LED HOOKUP STANDALONE

- If one wants more than one color then use an LED kit. There are many available kits the majority of them will come with the LED strips, a color selecting remote, a controller and a power supply. Just power it separately.



JUMPER

Feel free to explore the other jumper functions. You have 3 mode to chose from the buttons reacts differently depending on the jumper setting. I removed the jumper, It's not perfect, but I'm happy enough with the functionally. It gets the job done. Here is how it works.

Jumper off

- Remote Button (A) = Close Compartment
- Remote Button (B) = Open Compartment
- Remote Button (C) = LED On
- Remote Button (A) = Not Used

When you select a function, the action begins. If you then press another button that function stops all operation and start the new one. For example. If you open the coffee table, you have to wait until it opens all the way before you turn on the LED. If the compartment is opening and you then press the LED button (C) it will stop the compartment opening immediately.

- The best solution is to use standalone LED strip and operate it separately. The one in the material list is a good option.

CLICK TO WATCH ON YOUTUBE

