

Foundry Bench Corner Standing Desk FBC

Assembly Instructions

REV 10212025



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**MADE IN
AMERICA**

Parts

Bamboo Surfaces



Lower Center Surface (1 pc)



Lower Side Surface (2 pc)



Upper Center Shelf (1 pc)



Upper Side Shelf (2 pc)

Steel Support



Long Cross Support (2 pc)



Leg Upright (2 pc)



Foot (2 pc)



Moving Beam (2 pc)



Center Beam (1 pc)



Corner Pillar (2 pc)

Parts

Steel Support



Motor Mount Bracket (2 pc)

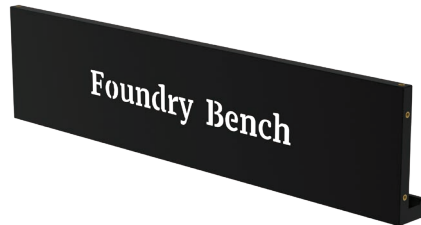


Shelf Bracket (2 pc)



Short Cross Support (1 pc)

Metal Panels



Back Panel (2 pc)



Center Front Panel with USB (1 pc)



Side Front Panel (2 pc)



Back Center Panel (1 pc)

Electronics



Actuator with Bracket (2 pc)
(Left and Right)



Actuator without Bracket (1 pc)
(Center)



Y-Split Cable (1 pc)



Control Switch (1 pc)



Control Box (1 pc)



Power Cord (1 pc)



Extension Cord (1 pc)



HJC4S Power Box (1 pc)

Hardware


Caster (6 pc)
2 Brake, 4 No Brake


20mm Furniture Bolt (48 pc)



50mm Furniture Bolt (7 pc)


3/8-16 x 2 1/2"
Hex Bolt (6 pc)

1/4-20 x 1/2"
Truss Head Screw (40 pc)


3/8-16 Washer (12 pc)


8-32 x 3/4 Flat
Head Screw (8 pc)

Hex Head w/ Flat
Washer Screw (4 pc)

12mm Furniture
Bolt (4 pc)

8A x 5/8"
Wood Screw (14 pc)


Clevis Pin (3 pc)



Cotter Pin (3 pc)



3/8-16 Hex Nut (6 pc)



Link Brackets (2 pc)

Additional Tools Required


4mm Allen Wrench
(Included)

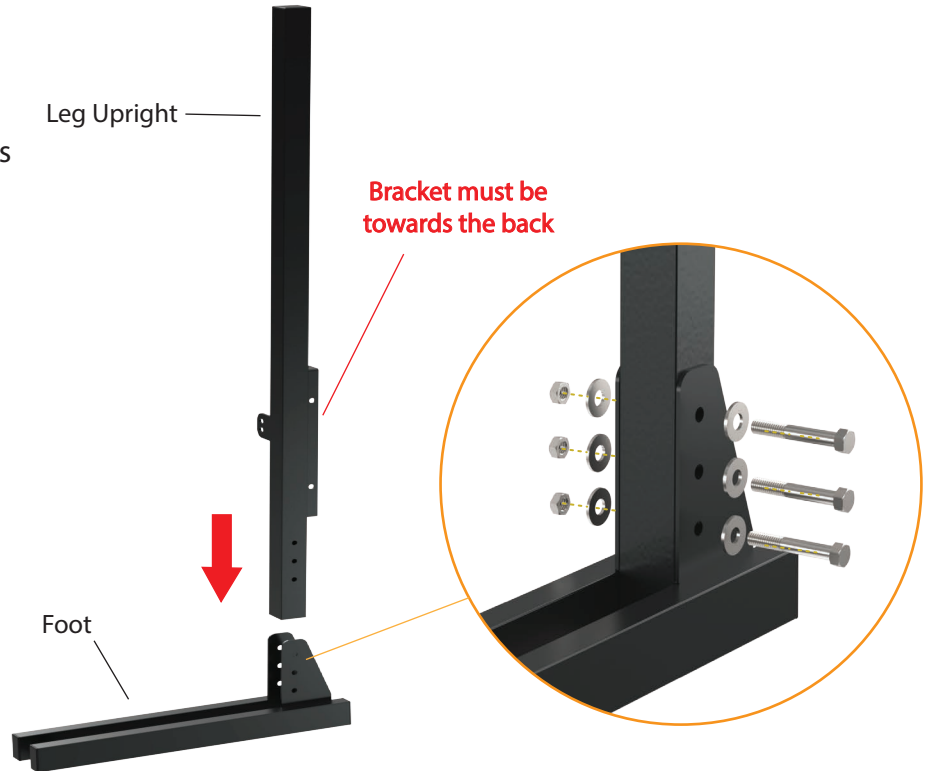

Phillips Head Screwdriver

Assembly

Step 1 Leg Uprights

Attach the Leg Upright to the Foot using (3) 3/8-16 x 2 1/2 Hex Bolts, (3) 3/8-16 Washers and (3) 3/8-16 Hex Nuts as shown. Use the included wrenches to tighten the bolts. **Repeat for other side.**

Please note: Insert the bottom Hex Bolt first and secure it with the nut. Then, move your way up and tighten all bolts at the end.



Step 2 Back Panels

Please note: We highly recommend that you place a cardboard or soft material beneath the parts in this step to avoid damage from scraping.

Place the Leg Upright on the ground as shown. Then, attach the Back Panel to the upright using (4) 20mm Furniture Bolts. **Repeat for other leg upright.**

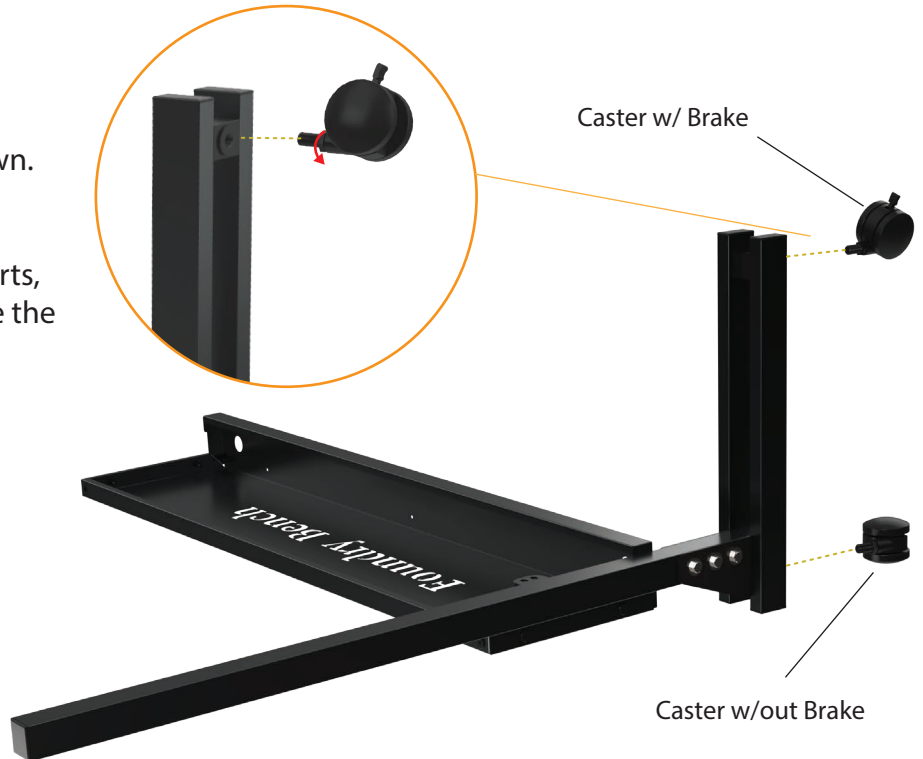


Assembly

Step 3 Casters

Using the same position as the previous step, insert (2) Casters into the Foot as shown. **Repeat this step for the other Leg Upright.**

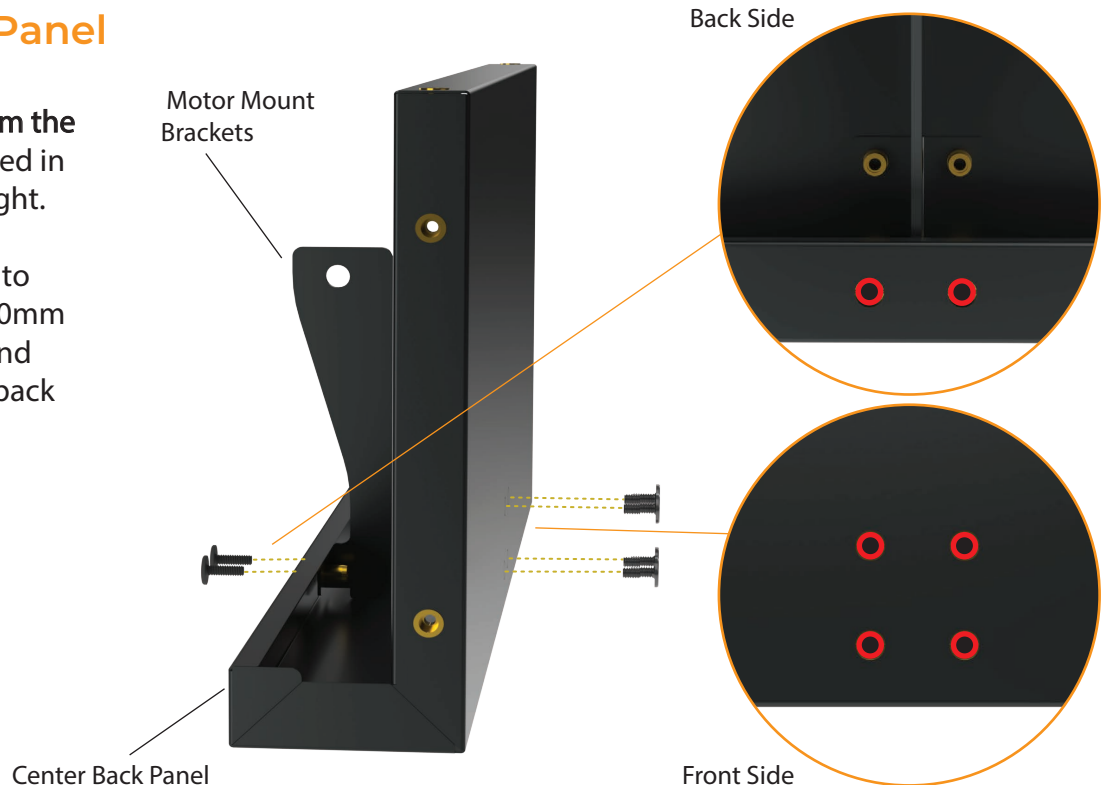
Please note: When lifting the assembled parts, make sure the two casters with brakes have the brake ON to avoid the parts from sliding.



Step 4 Center Back Panel

Remove the 6 knock off holes from the Center Back Panel. They are marked in red circles in the images to the right.

Attach (2) Motor Mount Brackets to the Center Back Panel using (4) 20mm Furniture Bolts in the front side and (2) 20mm Furniture Bolts on the back side.

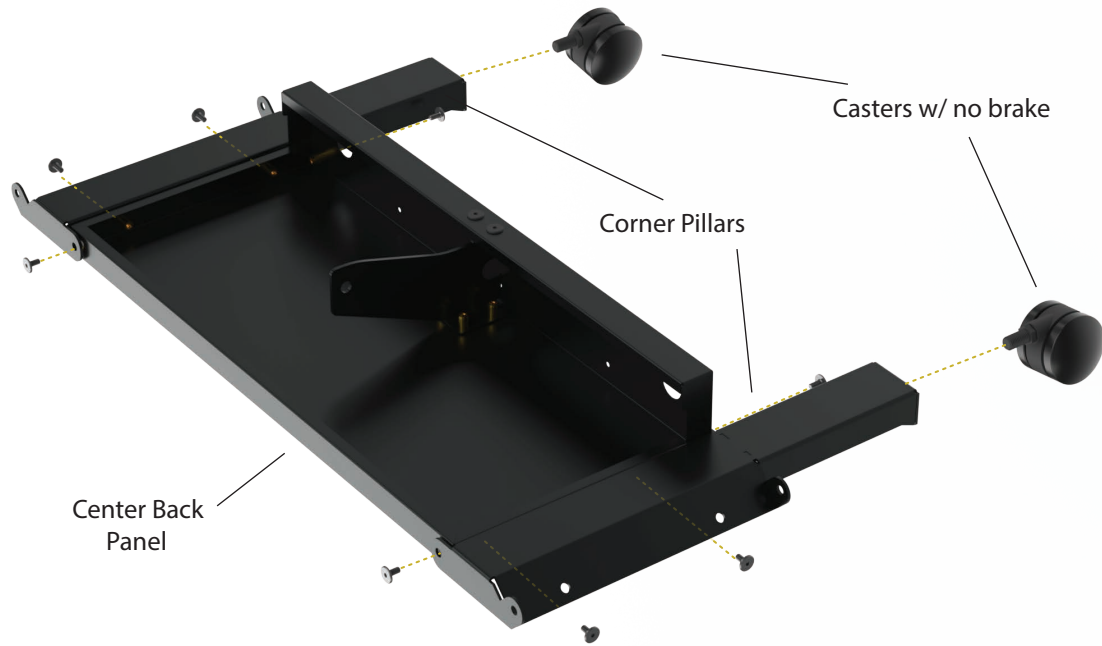


Assembly

Step 5 Corner Pillars

Attach both Corner Pillars to the Center Back Panel using (8) 20mm Furniture Bolts.

Then, insert (2) Casters with no brakes to each one of the Corner Pillars as shown.


x8


20mm Furniture Bolt

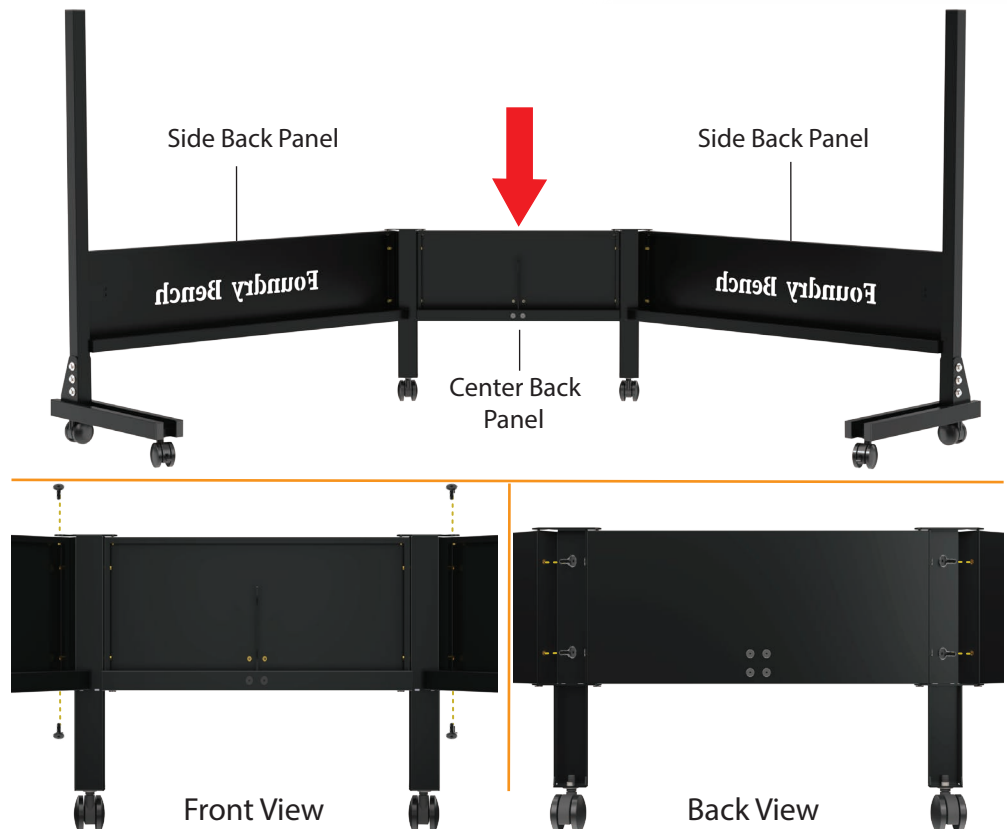
x2


Caster

Step 6 Back Panels

Place the Center Back Panel in between the other two side back panels as shown.

You will then use (8) 20mm Furniture Bolts to fasten all three of the back panels together. Four screws will fasten the Corner Pillars and the other four will fasten the Back Panels.

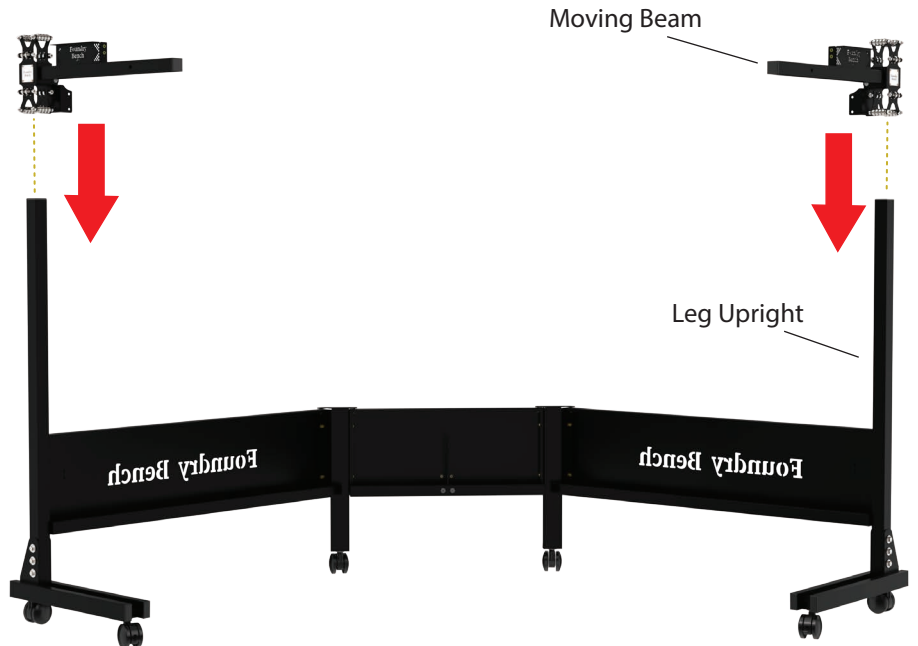

x8


20mm Furniture Bolt

Assembly

Step 7 Moving Beams

Slide (2) Moving Beams down the Leg Uprights until the beams touch the Back Panel as shown.



Step 8 Actuators

Align the Actuator with both the Moving Beam and Leg Upright as shown. First, you use (2) 20mm Furniture Bolts to attach the Actuator to the Moving Beam.

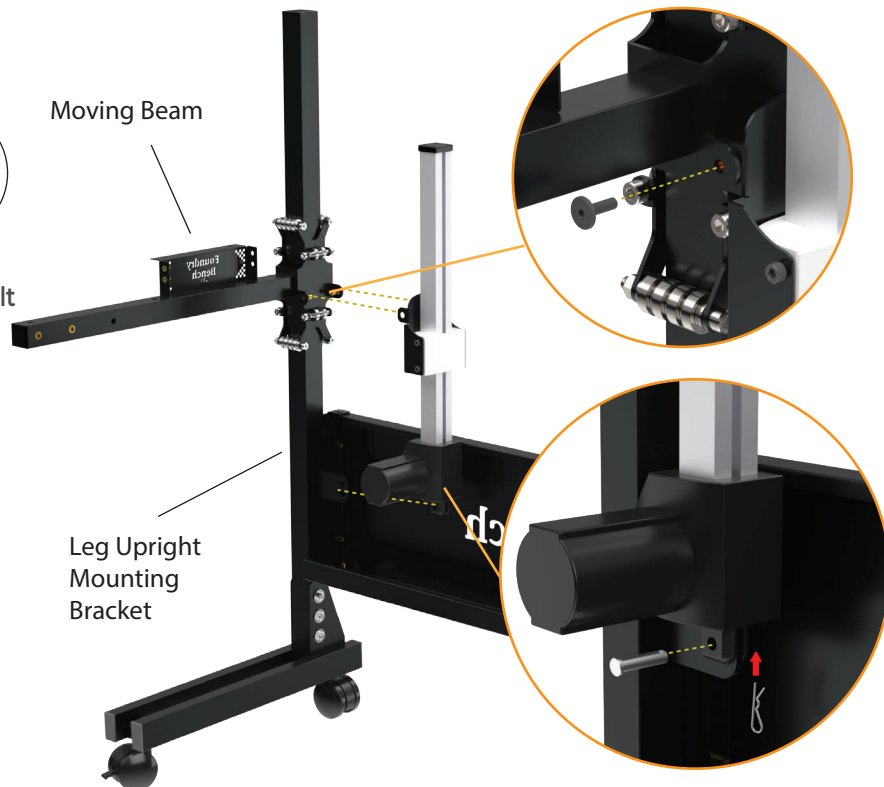
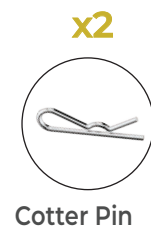
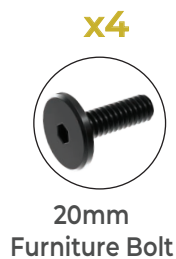
Repeat for other side.

Next, attach the bottom of the Actuator to the mounting bracket on the Leg Upright.

To do this, you will use (1) Clevis Pin and (1) Cotter Pin as shown.

Repeat for other side.

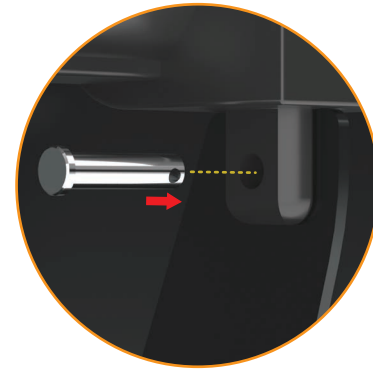
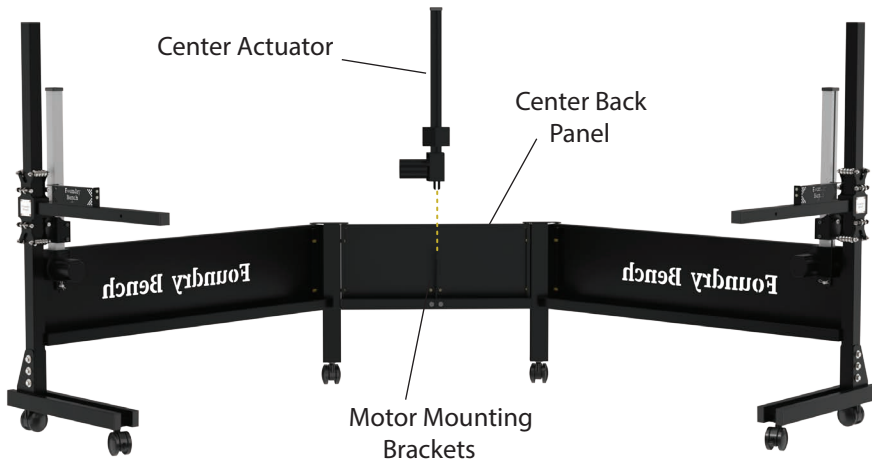
Reference on Step 9.



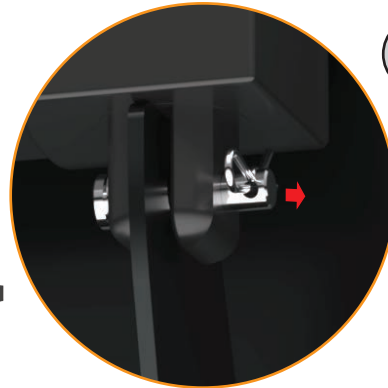
Assembly

Step 9 Center Actuator

Align the Center Actuator with the Motor Mount Brackets on the Center Back Panel. You will use (1) Clevis Pin and (1) Cotter Pin to secure the actuator to the brackets as shown.


1
x1


Clevis Pin

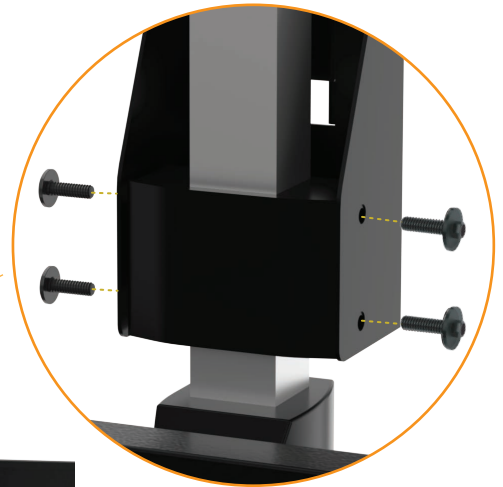
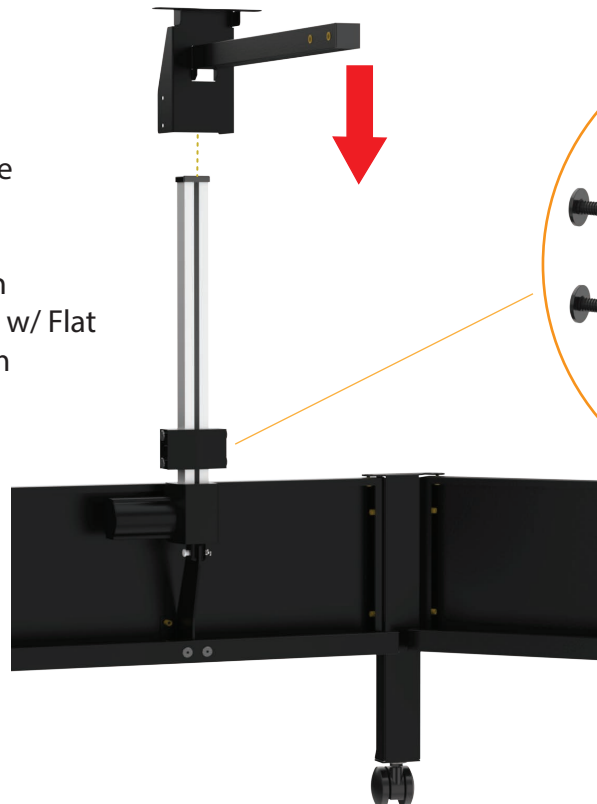

2
x1


Cotter Pin

Step 10 Center Beam

Slide the Center Beam down the Center Actuator until it reaches the Center Back Panel.

There you will align the beam with the actuator and use (4) Hex Head w/ Flat Washer Screws to fasten the beam to the actuator as shown.

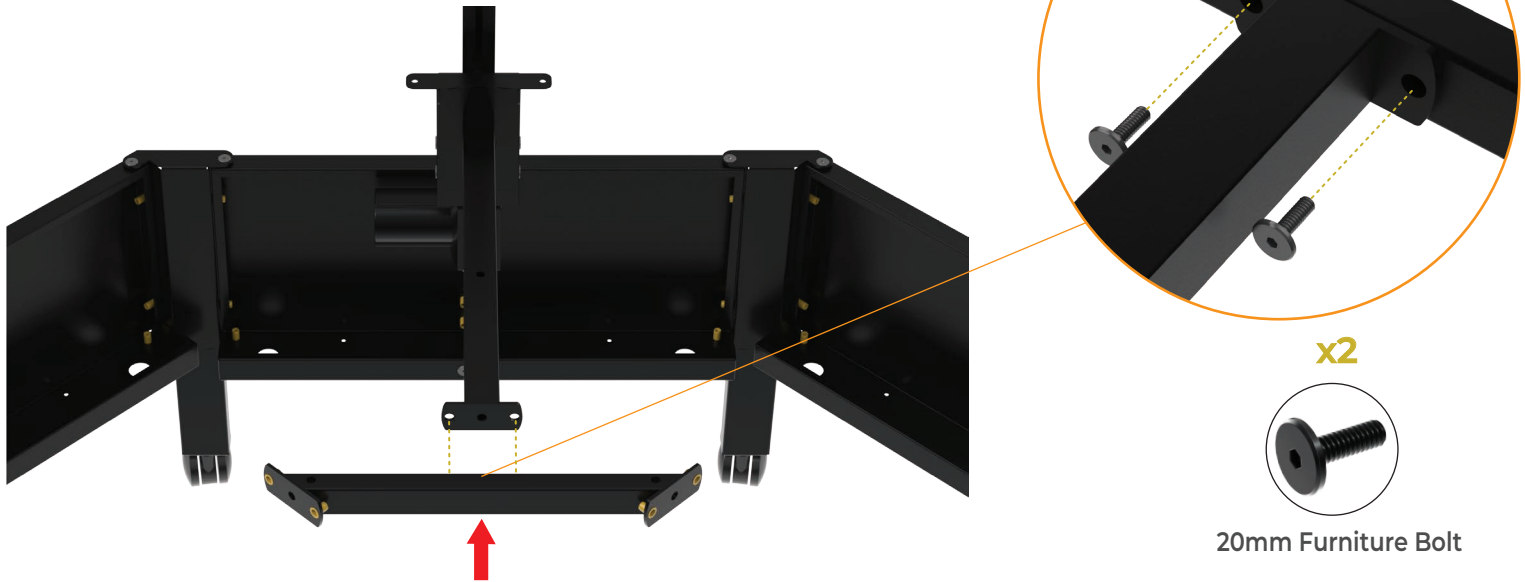

x4


Hex Head w/ Flat Washer Screw

Assembly

Step 11 Short Cross Supports

Attach the Short Cross Support to the end of the Center Beam using (2) 20mm Furniture Bolts as shown.



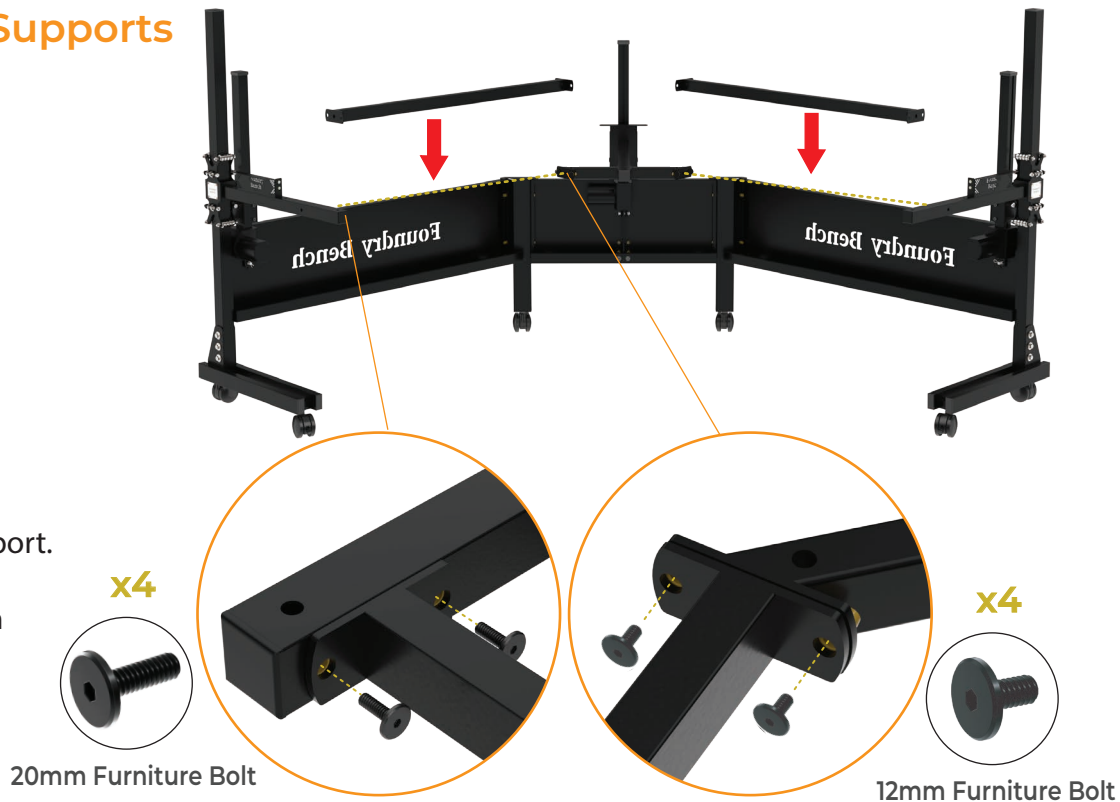
Step 12 Long Cross Supports

Place (2) Long Cross Supports in between the Moving Beams and Short Cross Supports as shown.

Use (4) 20mm Furniture Bolts to fasten the Long Cross Supports to the Moving Beams.

Use (4) 12mm Furniture Bolts to fasten the Long Cross Supports to the Short Cross Support.

Please note: Do NOT fully tighten these screws until the entire frame is set up.

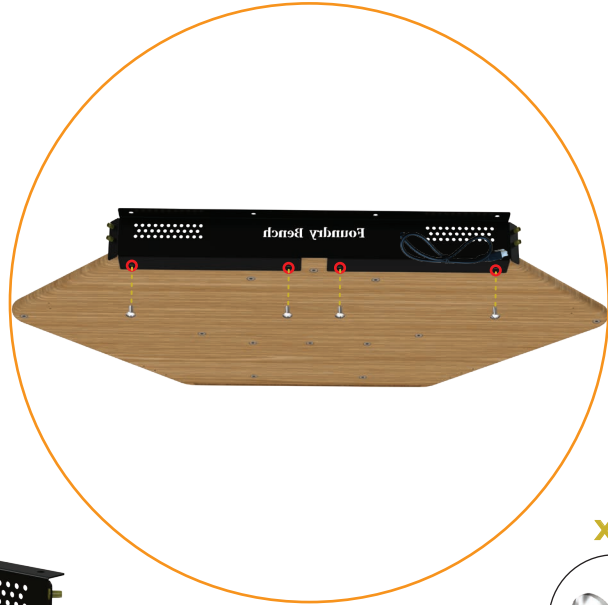


Assembly

Step 13 Center Surface

Attach the Center Front Panel to the Center Surface using (4) Truss Head Screws as shown.

The surface will sit on top of the Front Panel.


x4

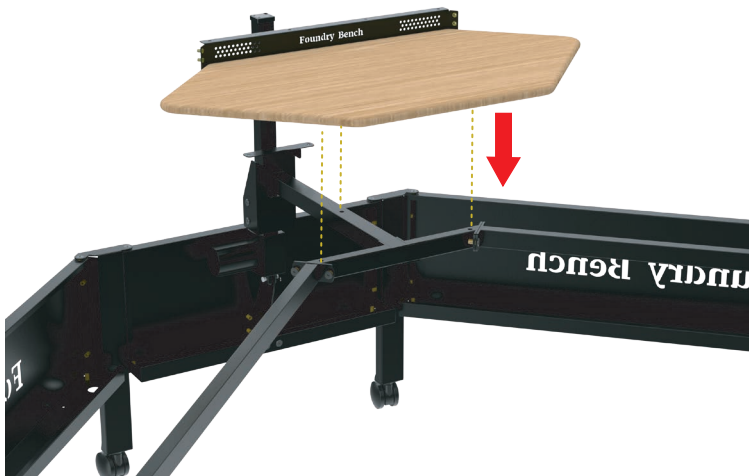

Truss Head Screw

Step 14 Center Surface

Place the Center Surface over the Center Beam and Short Cross Supports.

Align all the pieces together and use (3) 50mm Furniture Bolts to secure the surface onto the now built frame.

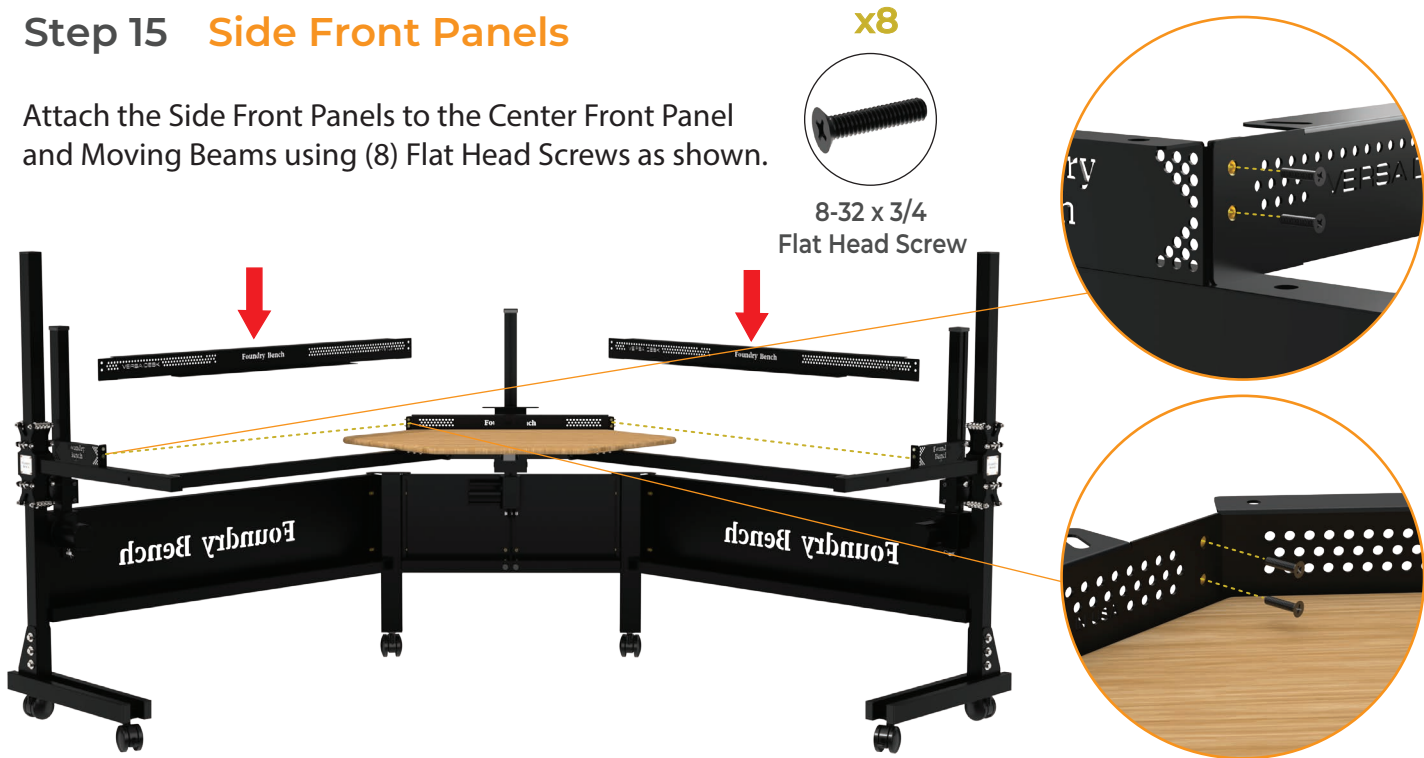
x3

50mm
Furniture Bolt


Assembly

Step 15 Side Front Panels

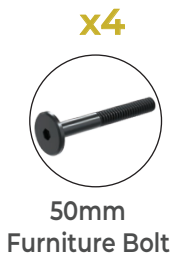
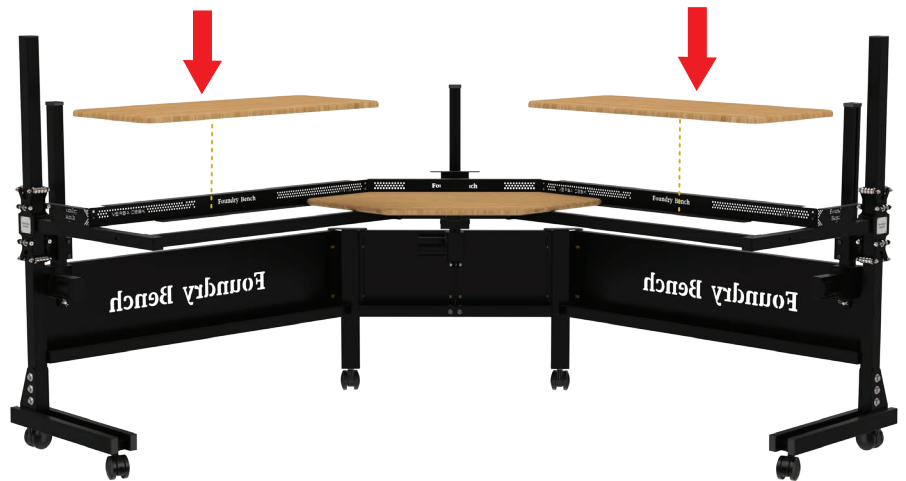
Attach the Side Front Panels to the Center Front Panel and Moving Beams using (8) Flat Head Screws as shown.



Step 16 Side Surfaces

Align the Side Surfaces with the cross supports and front panels.

Then, use (2) 50mm Furniture Bolts and (5) Truss Head Screws to secure a surface to the frame, front panel and center surface. **Repeat for other side.**



Assembly

Step 17 Center Shelf

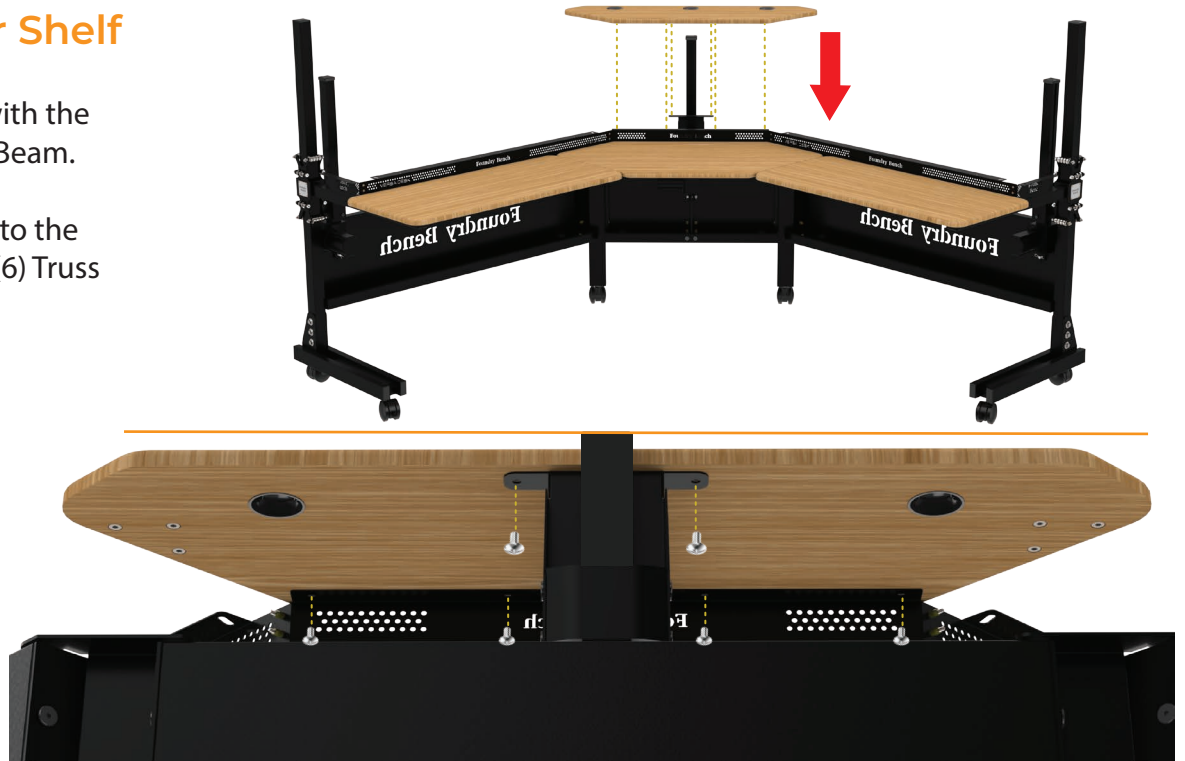
Align the Center Shelf with the Front Panel and Center Beam.

Secure the Center Shelf to the mentioned parts using (6) Truss Head Screws as shown.

x6



Truss Head Screw



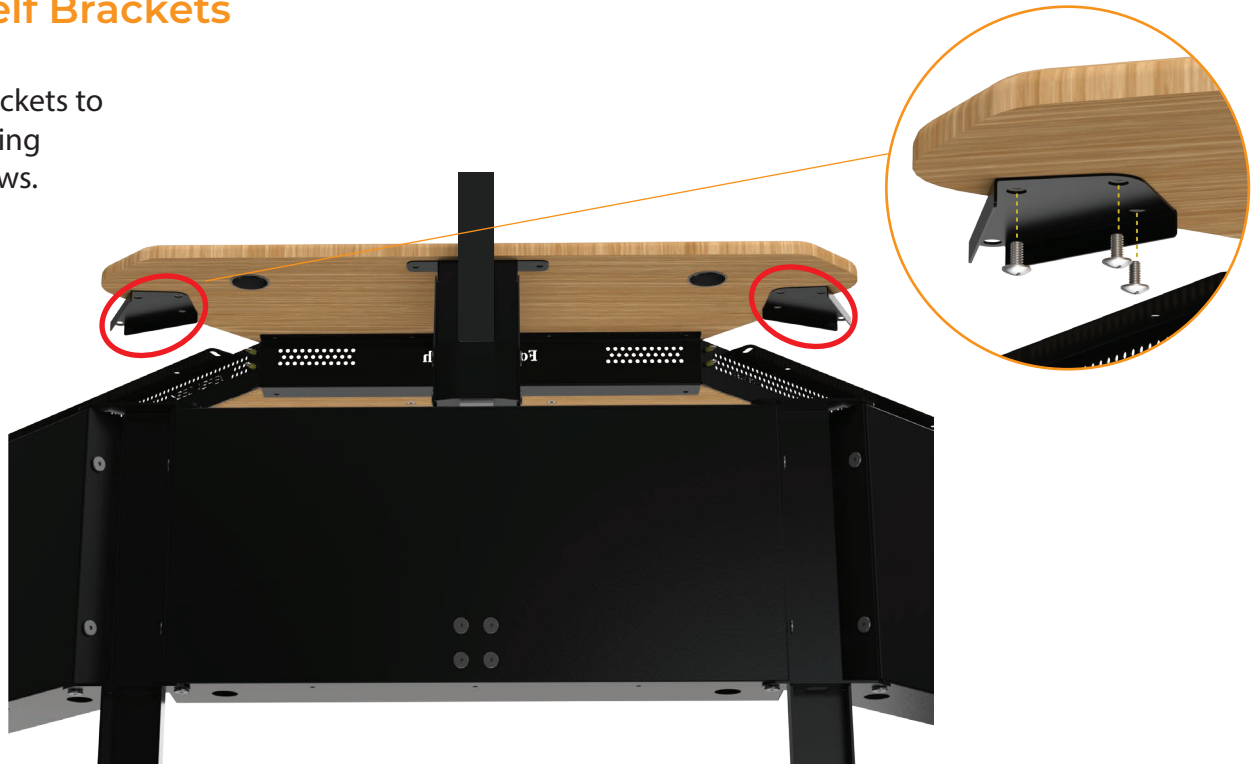
Step 18 Shelf Brackets

Attach (2) Shelf Brackets to the Center Shelf using (6) Truss Head Screws.

x6



Truss Head Screw



Assembly

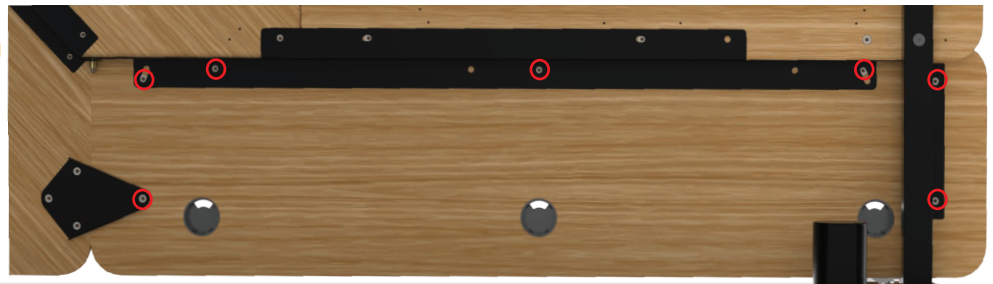
Step 19 Side Shelves

Align the Side Shelf with the Moving Beam and Side Front Panel. Then use (7) Truss Head Screws to attach the parts together as shown. **Repeat for other side.**

x14



Truss Head Screw



Step 20 Link Brackets

Place (2) Link Brackets where the Side Surfaces meet the Center Surface.

Then, use (12) Wood Screws to attach the brackets to the surfaces as shown.

x2

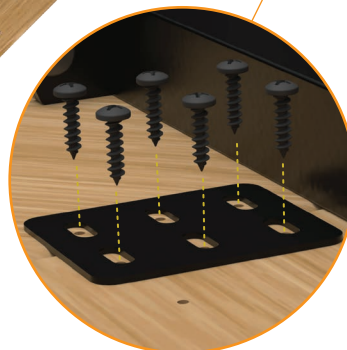
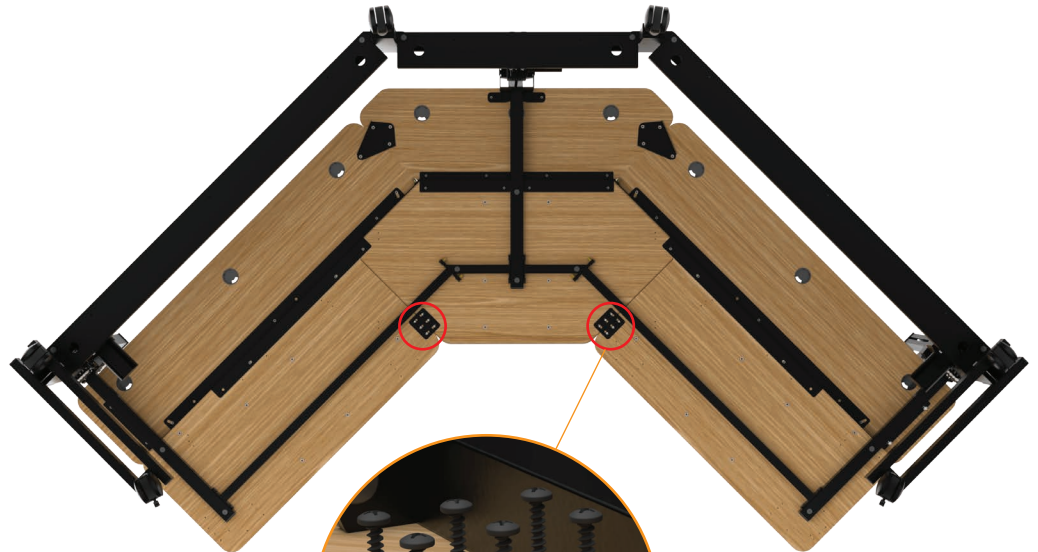


Link Brackets

x12



8A x 5/8
Wood Screw



Assembly

Step 21 Control Switch

Attach the Switch Bracket to the Side Surface on the right side using (2) 8A x 5/8" Wood Screws as shown.



Step 22 Complete

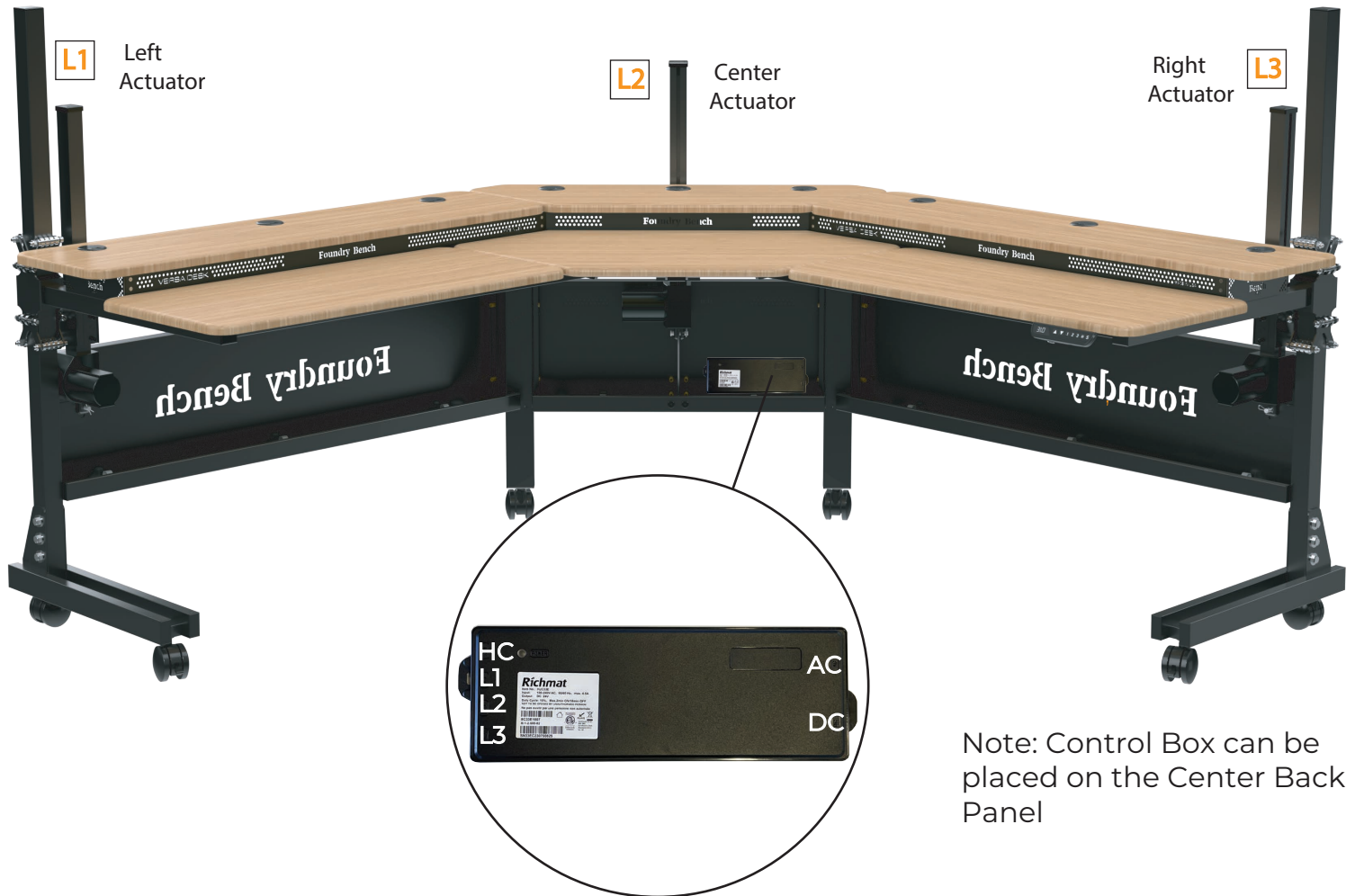
Assembly is now complete. Please refer to the next page to complete the wiring of the electronics.



Assembly

Wiring

Front View of Foundry Bench Corner Standing Desk



Assembly

Foundry Wiring

Place the control box inside the center panel as shown before beginning the wiring steps.

**L1**

Connect the Left Actuator directly to the L1 port on the control box. Untie the twist tie to fully extend the actuator wire.



Assembly

Foundry Wiring

- L3** Similarly to L1, Connect the Right Actuator directly to the L3 port on the control box. Untie the twist tie to fully extend the actuator wire.



- L2** Connect the Center Actuator directly to the L2 port on the control box.



Assembly

Foundry Wiring

HC Connect the end of the extension cable (circle in red) to the HC port of the control box.



Extend the cable through the side panel towards the control switch as shown and connect the corresponding end of the control switch.

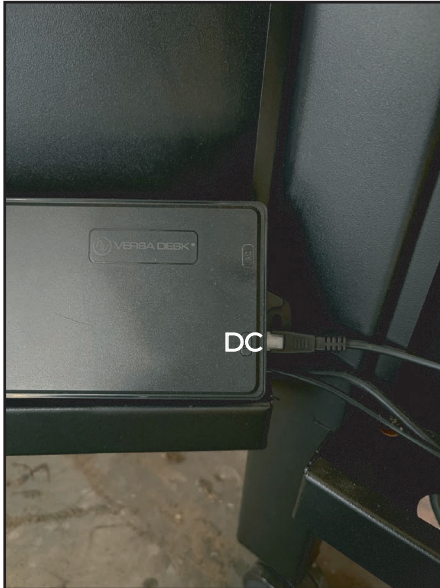


Assembly

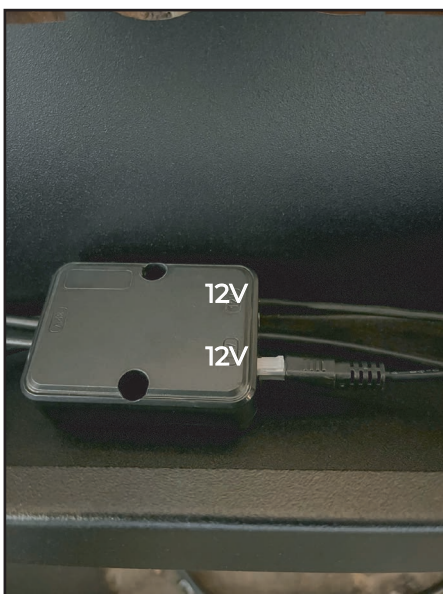
Foundry Wiring



Connect the end of the HJC45 Power Box to the DC port of the control box. Similar to the previous step, extend the Power Box through the side panel towards the control switch.



Connect the end of the Y-Split cable to a 12V port on the Power Box and another end to corresponding end of the control switch.



Y-Split cable to the Power Box



Y-Split cable to the Control Switch

Assembly

Foundry Wiring

Locate the wire at the back of the Center Panel connected to the USB Charger. Connect the end to the 12V port on the Power Box.

**AC**

Lastly, connect one end of the Power Cord to the AC port in the control box and connect the other end to any power outlet. Your New Desk is now Ready to Be Used!

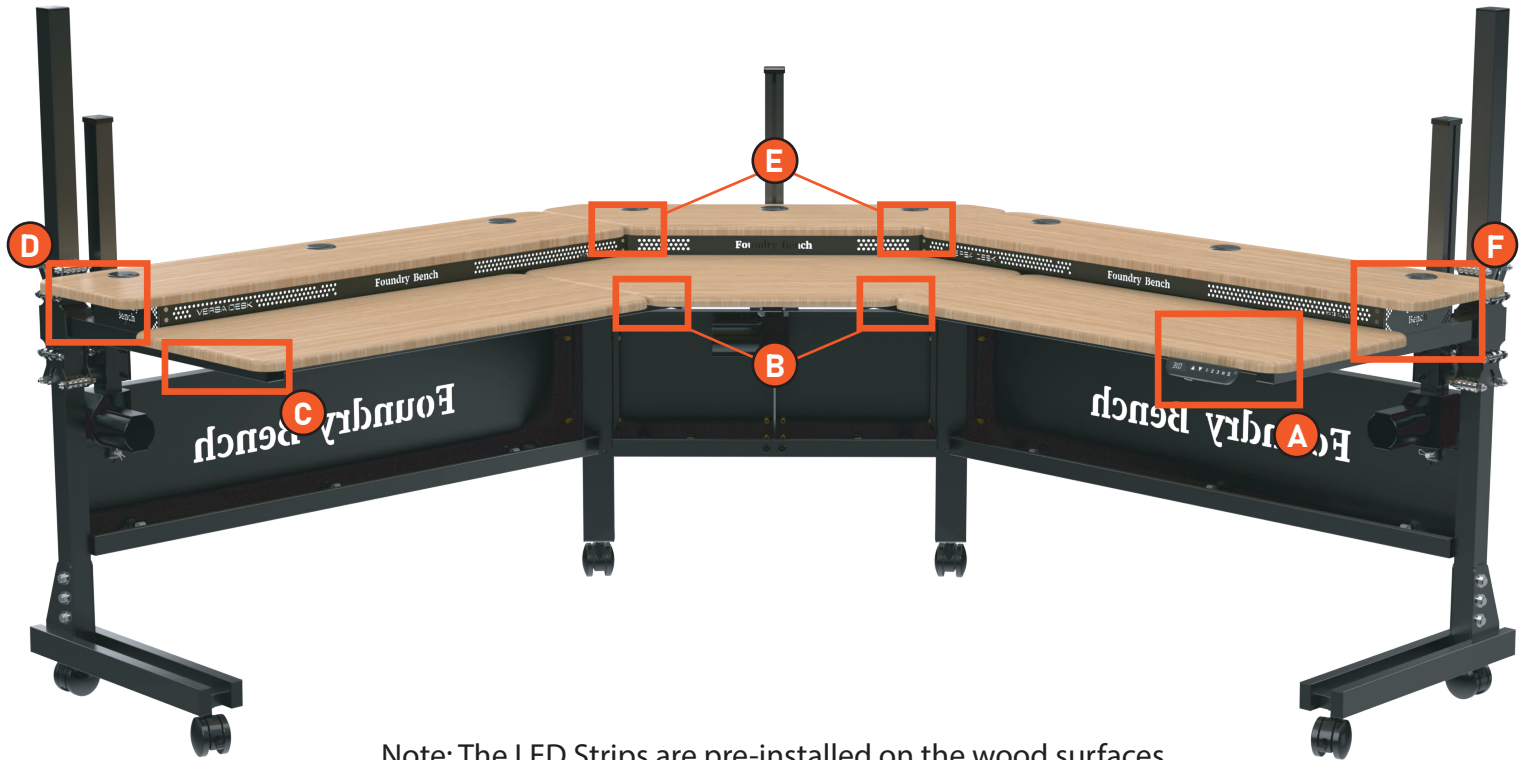




Assembly

LED Wiring

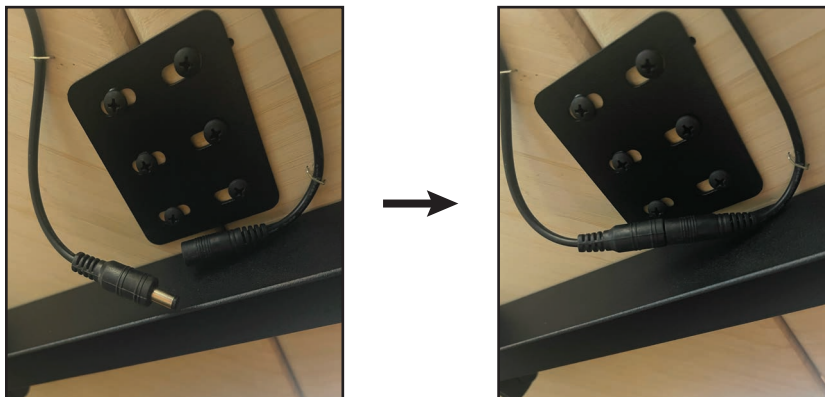
Use the diagram below as reference for the following steps:



Note: The LED Strips are pre-installed on the wood surfaces.

A The LED Strip Wiring begins here. There is nothing to connect. Continue to **B**

B Connect the Female and Male ends of the barrel plug.



Assembly

LED Wiring

- C** & **D** Locate the Female end barrel plug in location **C** and locate the Male end barrel plug in location **D**. Then simply connect both ends of the barrel plugs together.



Female End in Location **C**

+



Male End in Location **D**



Connect Both Ends

- E** Ensure the Female and Male ends go through the open space between the bamboo surface and metal frame. Then simply connect both ends of the barrel plug.



Assembly

LED Wiring

- F** Locate the Female End barrel plug in Location **F**. Connect this end with the Male End barrel plug found on the Y-Split cable.



Female End in Location **F**

+



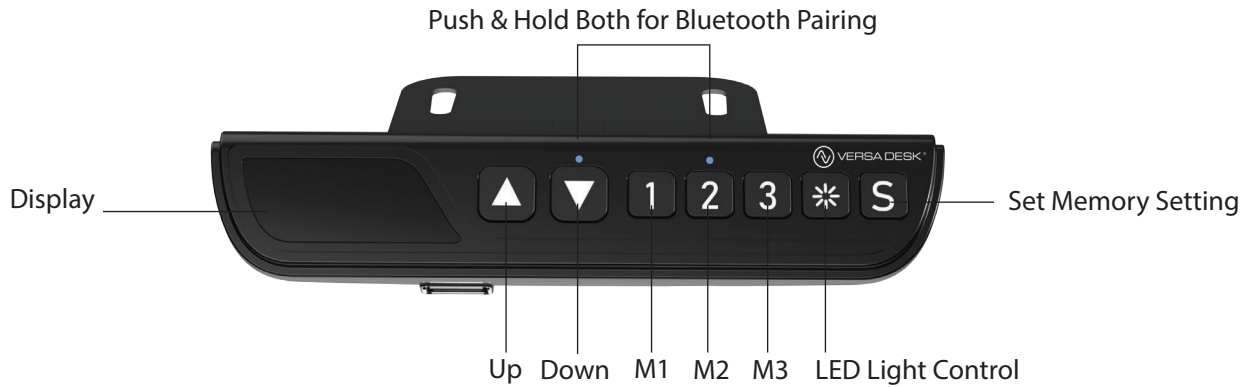
Male End on Y-Split Cable



Connect Both Ends

Your LED Lights are now ready to be used! Press the light symbol on the control switch to turn on/off the LEDs.

Control Switch Operation Instructions



1. INITIALIZATION / RESET

- 1.1 Press and Hold  and  until the Display shows **SET** then release.
- 1.2 Press and Hold  and  again and **continue to hold both buttons down** until the Display shows a number and/or hear a beep.

2. Memory Position

2.1 Set memory position 1:

Adjust the desk to the desired height, then press **1** and **S** hold and for 3 seconds, the height figure flashes for 3 second. Memory Position 1 is set.

2.2 Recall memory position 1:

Change Memory Position Recall Mode: Press and hold  and **2** for 3 seconds, the control shows **R 1 1** (Constant Touch)/ **R 1 2** (One Touch).

(1) " **R 1 1** / Constant Touch": Press and hold on **1**, the desk moves to the preset Memory Position 1.

(2) " **R 1 2** / One Touch": Click **1**, the desk moves to the preset Memory Position 1.

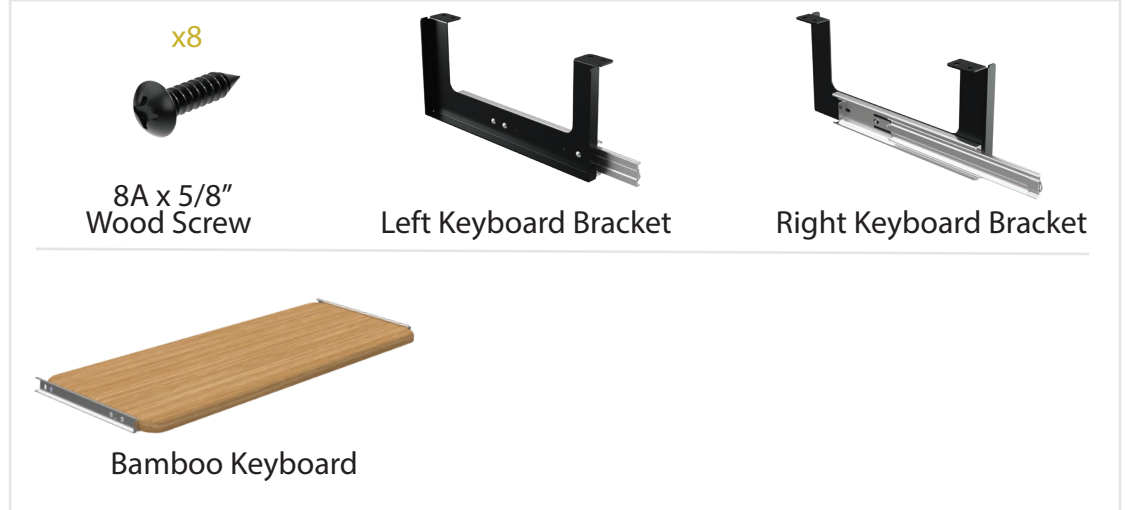
- Set memory position 2: Refer to 2.1 (Buttons: **2** **S**)
- Recall memory position 2: Refer to 2.2 (Buttons: **2**)
- Set memory position 3: Refer to 2.1 (Buttons: **3** **S**)
- Recall memory position 3: Refer to 2.2 (Buttons: **3**)
- Set memory position 4: Refer to 2.1 (Buttons: **4** **S**)
- Recall memory position 4: Refer to 2.2 (Buttons: **4**)

Add-on: Sit to Stand Keyboard Arm and Tray

Tools



Parts

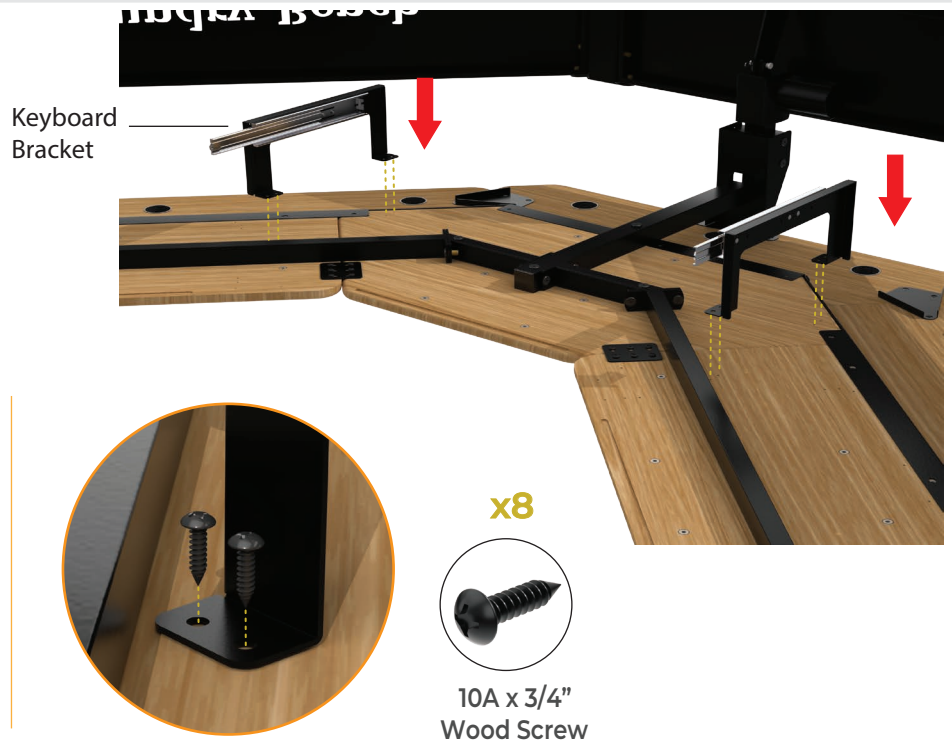
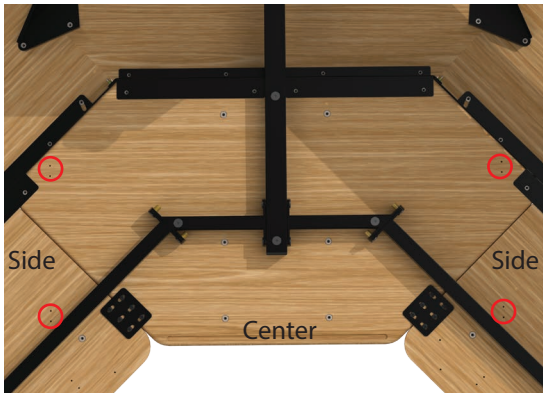


Assembly

Step 1

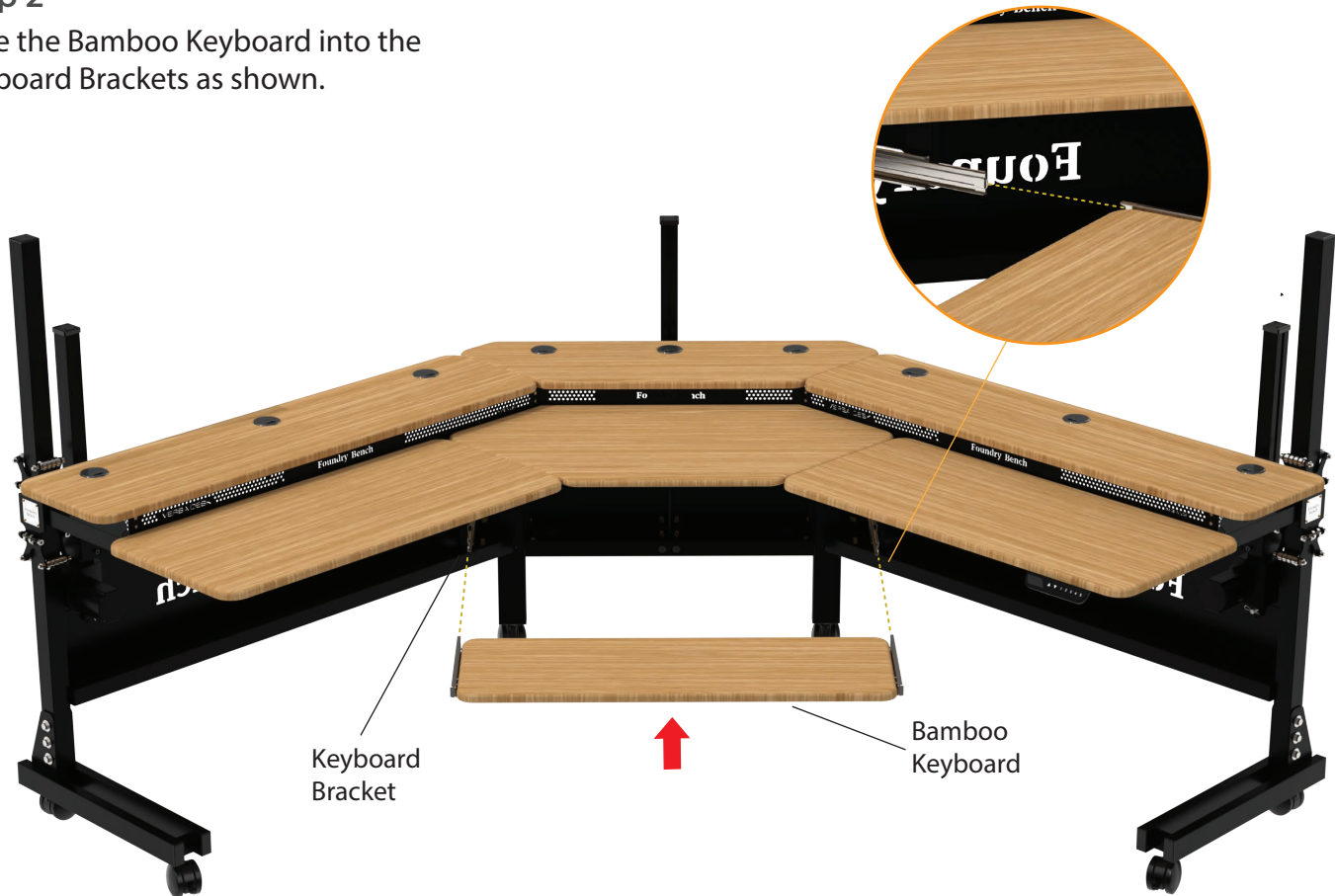
Identify the mounting holes on the bottom side of the surfaces marked in red circles below.

Then, attach both Keyboard Brackets to the Center Surface and Side Surfaces using (8) 10A x 3/4" Wood Screws.



Add-on: Sit to Stand Keyboard Arm and Tray**Assembly****Step 2**

Slide the Bamboo Keyboard into the Keyboard Brackets as shown.

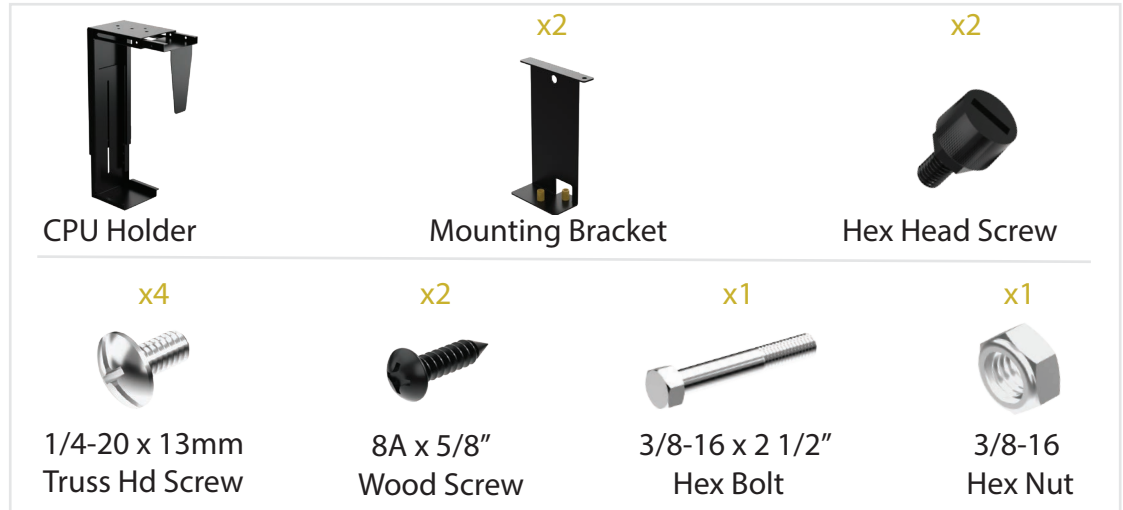


Add-on: CPU Holder

Tools



Parts



Assembly

Step 1

Align the top frame of the CPU Holder with the 4 holes on the mounting brackets.

Then, use **(4) 1/4-20 x 13mm Truss Head Screws** to attach the top frame of the CPU Holder to the mounting brackets as shown.

The screws should go into the inserts of the mounting brackets.



Add-on: CPU Holder

Assembly

Step 2

Decide which side you would like to place the CPU Holder on.

The CPU Holder can be mounted on either one of the moving beams.



Step 3

Align the holes of the mounting brackets with the holes on the moving beam as shown in the upper right corner.

Then, use **(2) 8A x 5/8" Wood Screws** to attach the mounting brackets to the bottom surface as shown.

The image on the bottom right shows a successful completion of this step.



Add-on: CPU Holder

Assembly

Step 4

Fasten the CPU Holder brackets to the moving beam using **(1) 3/8-16 x 2 1/2" Hex Bolt** and **(1) 3/8-16 Hex Nut** as shown.

The image on the bottom right corner shows a successful completion of this step.

x6



3/8-16 x 2 1/2
Hex Bolt

x6

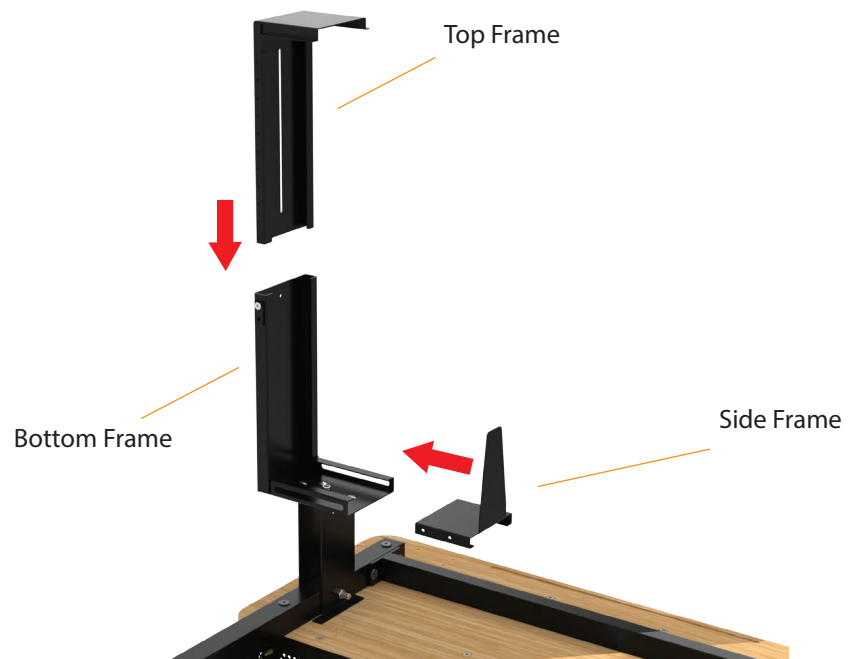


3/8-16 Hex
Nut



Step 5

Attach the bottom frame and the side frame of the CPU Holder to the top frame of the CPU Holder as shown. The frames are designed to simply slide into one another.



Add-on: CPU Holder**Assembly****Step 6**

Secure the side frame to the top frame using **(2) Head Hex Screws** as shown.

**Step 7**

Place your CPU into the CPU Holder.

Adjust the CPU Holder to ensure that your CPU is secured properly. Look at the next page for more details on adjustability.



Add-on: CPU Holder

Adjustability

