



JOHNS HOPKINS

WHITING SCHOOL
of ENGINEERING

Pop-Up Studio
Overview and
Assembly Manual

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Baltimore, Maryland

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Introduction

The instructional studio design presented in this document was created under a scenario that required adaptability for different spaces, flexible content sharing, and a central interface for controlling and recording live online courses. Specifically we were asked to create 35 studios in two months for rooms that ranged from 10x10 to 35x20 with different ceiling height, lighting, and acoustics. These studios would not be permanent installations in the room and might move by the next semester. In addition, ongoing studio support would be provided by the school's IT group, which meant using equipment that was familiar to their team. Leaning on prior experience delivering live courses from the Applied Physics Laboratory, we partnered with Johns Hopkins Engineering faculty to envision a new approach to live online course delivery.

The instructional studios started with a mobile standing desk, which serves as the command center for instruction. The desk has a room controller, document camera, and an interactive display with adapter for laptop content share. Behind the desk is a whiteboard with whiteboard camera. In front of the desk, we designed an AV cart that includes a shotgun mic pair, LED light panels, two large displays, one off-lens teleprompter, and PTZ camera.

Every aspect of the studio design was focused on reducing external factors introduced with differing spaces, while supporting the delivery of engaging learning experiences. The light panels guarantee consistent lighting regardless of the space. Using two shotgun mics provides professional audio and allows instructors to freely move around, while reducing noise pickup from other directions. Positioning the main camera below the small monitor (off-lens teleprompter) creates the feeling of direct eye contact with the audience, and the two larger displays provide a large view of students and shared content.

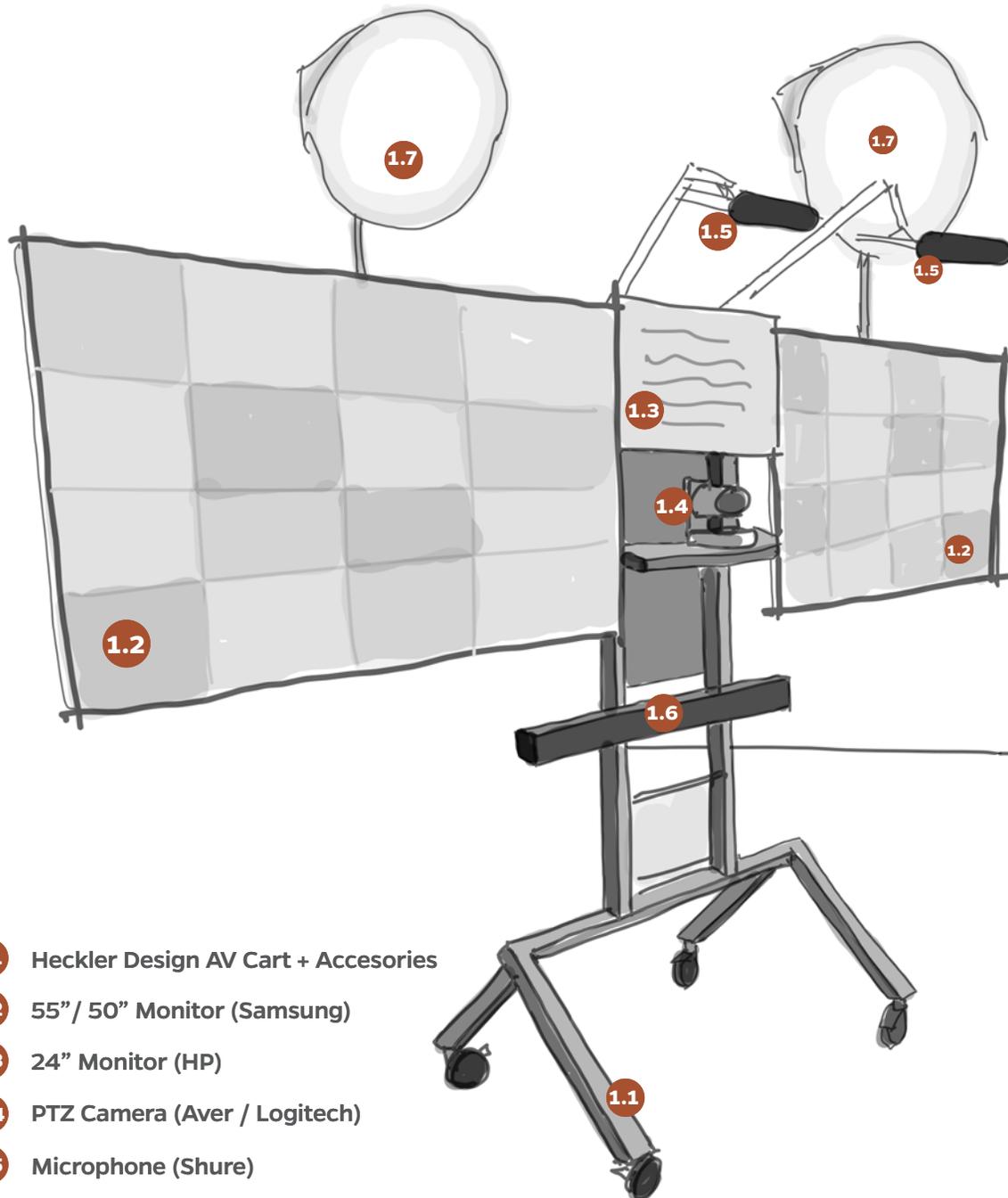
The studios put the instructor in control of the meeting using a Zoom Rooms controller-- allowing them to easily switch between and share multiple types of content simultaneously: main camera, document camera, laptop content, digital annotations, and whiteboard writing.

Ultimately these studios enable flexible, high quality live direct-to-device content delivery and recording that improves the learning experience for students and in an effort to help support similar initiatives across the JHU system and universities across the nation, our team has assembled this Overview and Assembly Manual. This manual is intended to provide an exhaustive resource so that others may quickly deploy these studios in other settings.

Should you have any questions, please do not hesitate to reach out, as we would be pleased to provide guidance in helping you get your pwn studios up and running.

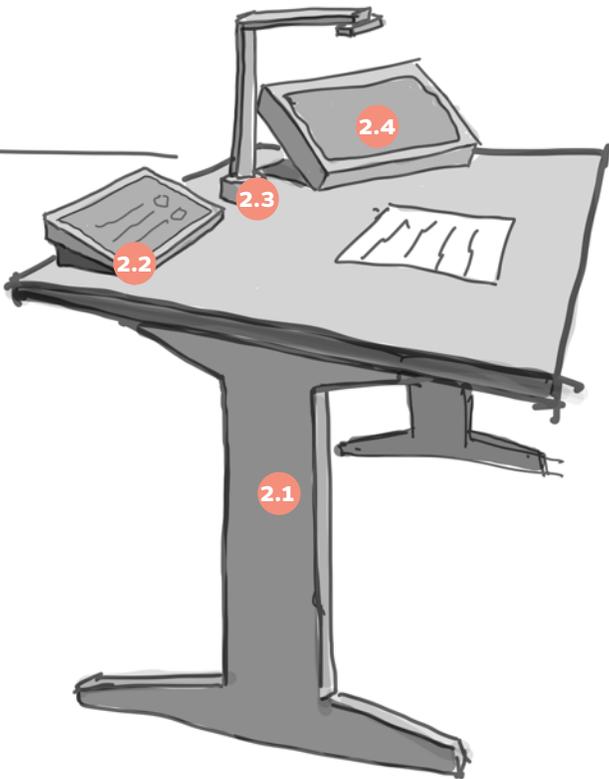
Nathan Graham
Director, Center for Digital and Media Initiatives

Studio Overview

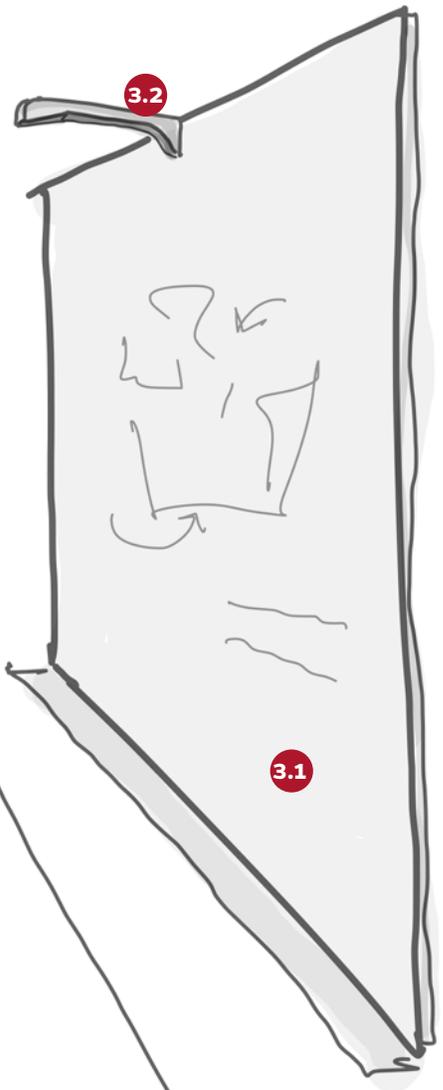


- 1.1 Heckler Design AV Cart + Accesories
- 1.2 55"/ 50" Monitor (Samsung)
- 1.3 24" Monitor (HP)
- 1.4 PTZ Camera (Aver / Logitech)
- 1.5 Microphone (Shure)
- 1.6 Speakers (PreSonus)
- 1.7 LED Lights

- 2.1 Adjustable Standing Desk
- 2.2 Zoom Rooms Controller (iPad w/ Case)
- 2.3 Document Camera (IPEVO)
- 2.4 Touch Display (Huion Kanvas)



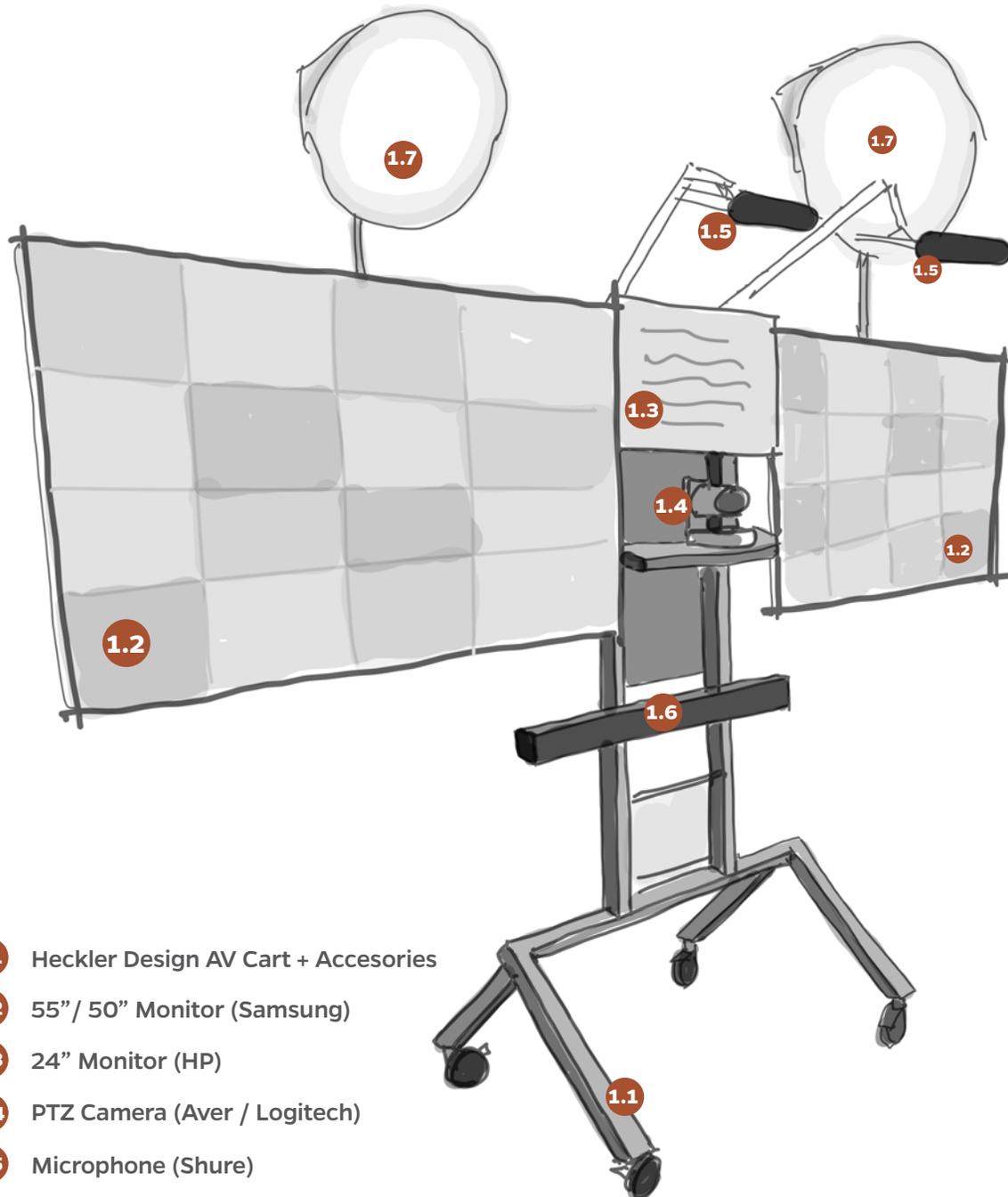
2.0 - Desk/ Podium



- 3.1 Whiteboard
- 3.2 Whiteboard Camera (Kaptivo)

3.0 - Whiteboard

1.0 - AV Cart



- 1.1 Heckler Design AV Cart + Accesories
- 1.2 55"/ 50" Monitor (Samsung)
- 1.3 24" Monitor (HP)
- 1.4 PTZ Camera (Aver / Logitech)
- 1.5 Microphone (Shure)
- 1.6 Speaker(s) (PreSonus)
- 1.7 LED Lights

* AV Components within 1.1c -Big Compartment (Not pictured at left)

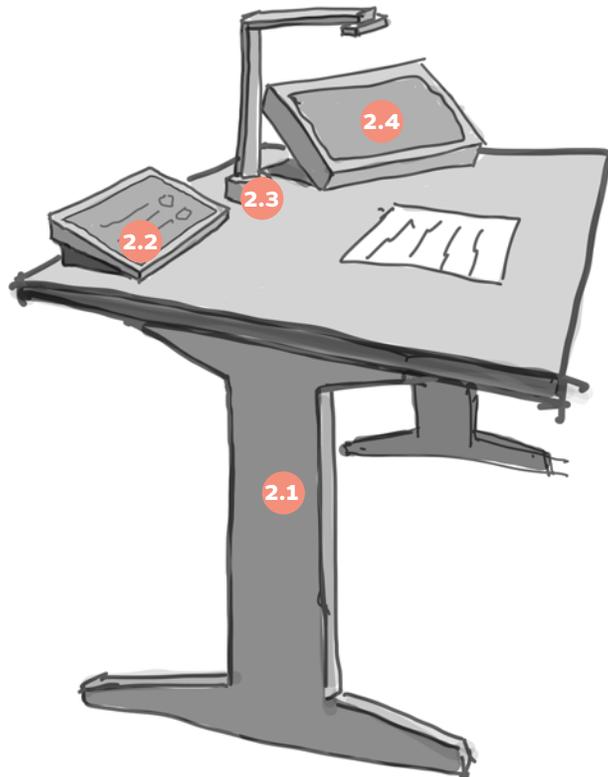
Component List

Component Number	Name	Manufacturer	Model Number	Quantity	Note
1.1a	AV Cart (Main Structure)	Heckler Design	H489	1	
1.1b	Dual Display Arms	Heckler Design	H490	1	Attaches to 1.1a - AV Cart
1.1c	Camera Mount	Heckler Design	H927	1	Attaches to 1.1a - AV Cart
1.1d	Multi-Shelf	Heckler Design	H491	1	Attaches to 1.1a - AV Cart
1.1e	Big Compartment	Heckler Design	H536	1	Attaches to back of 1.1a - AV Cart
1.1f	Sound Bar Mount	Heckler Design	H707	1	Attaches to 1.1a - AV Cart
1.2	55"/50" Monitor	Samsung	UN50RU7100 / UN55RU8000	2	Monitor sizes should always match
1.3	24" Monitor	HP	VH240a	1	
1.4	PTZ Camera	Aver / Logitech	S40 / Rally	1	- Aver S40 to be used in consistent light rooms - Logitech Rally to be used in mixed light rooms
1.5a	Microphone - Long	Shure	VP89L	1	Mounts to Boom Pole
1.5b	Microphone - Medium	Shure	VP89M	1	Mounts to Boom Pole
1.5c	Boom Pole	ProAm	BOOM_ADJ	2	Custom mounting solution to AV Cart Monitor Arms
1.6a	Speaker/s	PreSonus	Eris 3.5 (pair)	1	Mounts with VHB Tape to 1.1e Multi-Shelf. for sound bars, use Heckler Sound Bar AV Cart Mount
*1.6b	2-Input USB Audio Interface	Focusrite	Scarlett 2i2	1	
1.7	LED Light Kit (pair)	Fovitec	600XB Bi-Color Led Panel With Dmx, 2-Light Kit w/ Stands	1	Custom mounting solution to AV Cart Monitor Arms
*1.8a	Zoom Rooms Computer	Dell	Optiplex 7070 Micro	1	Mounts with Human Centric - Dell Optiplex Mount
*1.8b	HDMI Splitter	OREI	HD-102 1x2 HDMI Powered Splitter	1	
*1.8c	HDMI Capture Card	Logitech	Screen Share	1	
*1.8d	Computer Mount	Human Centric	Dell Optiplex Mount	1	

* AV Components within 1.1c -Big Compartment (Not pictured at left)

2.0 - Desk/ Podium

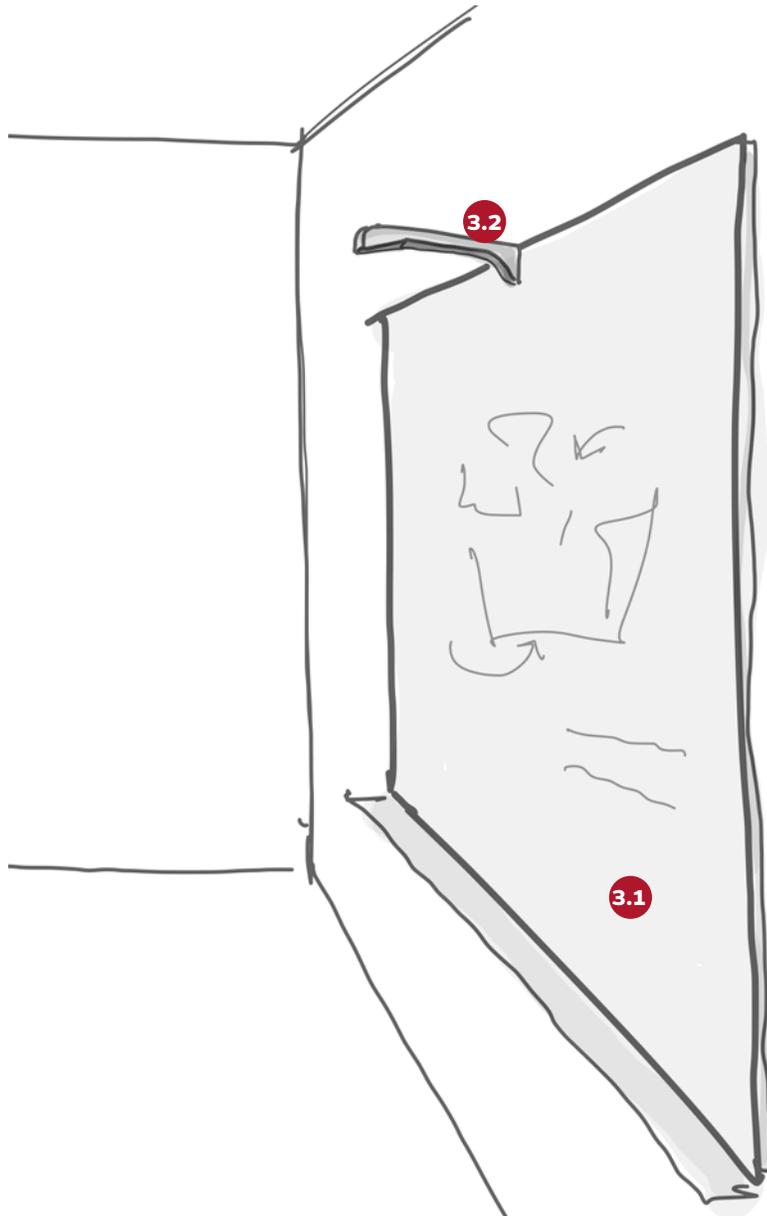
- 2.1 Adjustable Standing Desk
- 2.2 Zoom Rooms Controller (iPad w/ Case)
- 2.3 Document Camera (IPEVO)
- 2.4 Touch Display (Huion Kanvas)



Component List

Component Number	Name	Manufacturer	Model Number	Quantity	Note
<i>As specified by JHU - May be substituted with comparable specifications</i>					
2.1	Adjustable Standing Desk	Uncaged Ergonomics	Rise-Up 48x30 Height Adjustable Desk	1	
2.2a	Zoom Rooms Console Housing	Heckler	H601 Zoom Rooms Console for 10.2" iPad	1	
2.2b	iPad	Apple	10.2" iPad 32gb	1	
2.2c	Ethernet + PoE for iPad	Redpark	T272 Gigabet Ethernet + Power over Ethernet for Zoom Rooms Console	1	Mounts inside base of 2.2a
2.2d	Ethernet Power Injector	n/a	n/a	1	Data Outlet
2.3	Document Camera	IPEVO	VZ-X Wireless	1	
2.4	Touch Display	Huion	Kanvas 20	1	mirrors right monitor

3.0 - Whiteboard

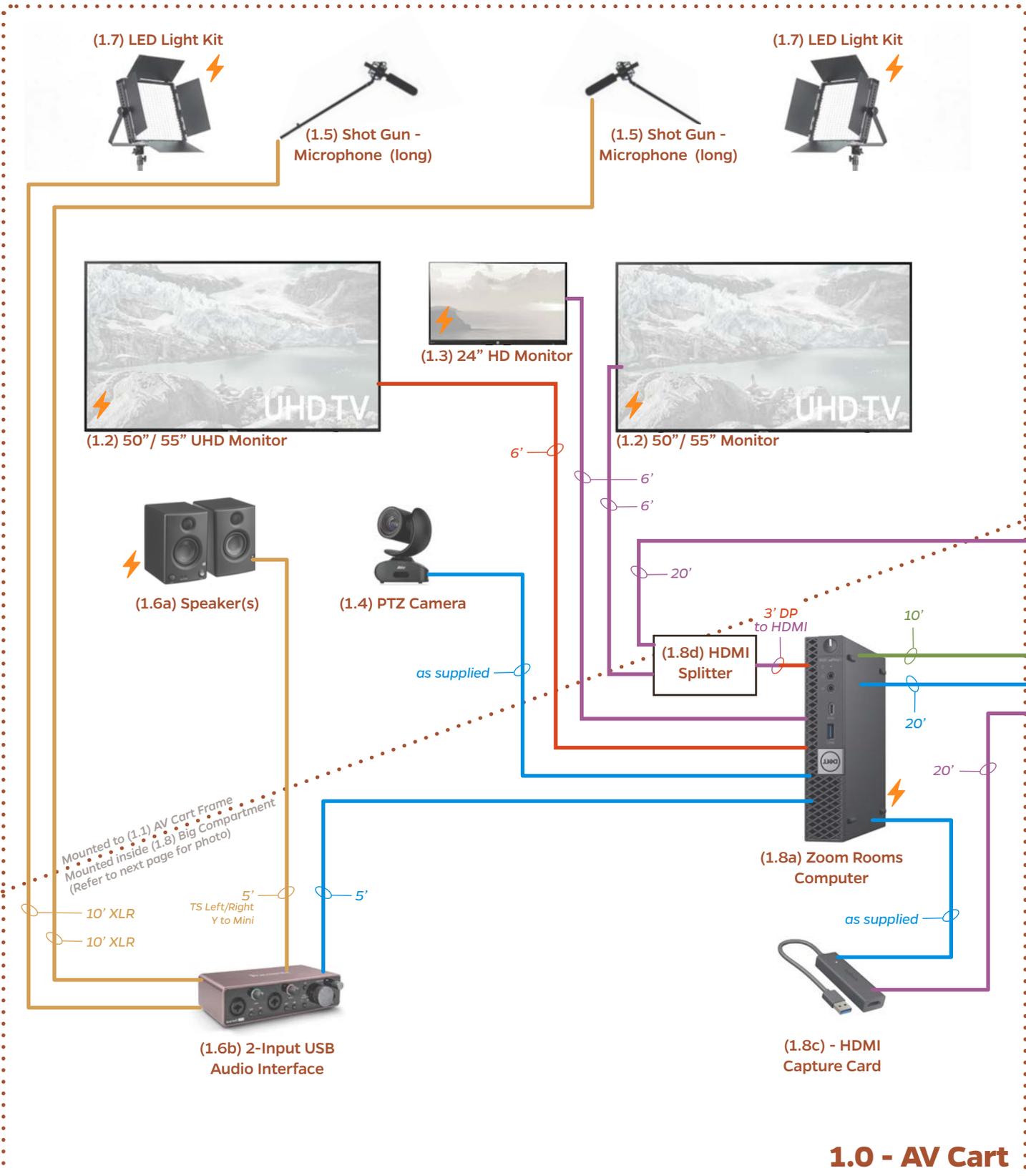
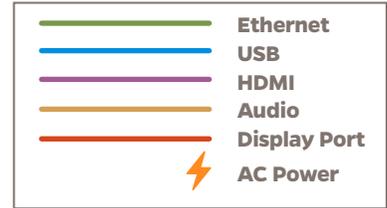


- 3.1 Whiteboard
- 3.2 Whiteboard Camera (Kaptivo)

Component List

Component Number	Name	Manufacturer	Model Number	Quantity	Note
<i>As specified by JHU - May be substituted with comparable specifications</i>					
3.1	Whiteboard	Quartet	4x6 Porcelain Whiteboard	1	Center at 56" above finished floor (AFF)
2.2	Whiteboard Camers	Kaptivo	Kaptivo for Zoom Rooms	1	

Wiring Diagram



Local Network

(2.2c) PoE Injector

15'



(2.2c) Ethernet + PoE for iPad



(2.2b) iPad - Zoom Rooms Controller

2.2a Zoom Rooms Console



(2.3) Document Camera



(2.4) Touch Display

3'



BYO Laptop

2.0 - Desk/ Podium

20'



(3.2) Whiteboard Camera

3.0 - Whiteboard

Assembly Guide

The following is a detailed guide for assembling the pop-up studios including the manufacturers' assembly instructions reordered specific to this installation, as well as, instructions for the custom modifications for these units. The upper level installation steps are as follows:

1.0 - AV Cart

1. Assemble **(1.1a) AV Cart - Main Structure** [pg 18](#)
2. Add **(1.1b) Dual Display Arms** to (1.1a) AV Cart [pg 26](#)
3. Attach **(1.1e) Big Compartment** to (1.1a) AV Cart [pg 29](#)
4. Attach **(1.1d) Multi-shelf** to (1.1a) AV Cart [pg 34](#)
5. Attach **(1.1c) Camera Mount** to (1.1d) Multi-Shelf [pg 36](#)
6. Attach **(1.1f) Sound Bar Mount** to (1.1a) AV Cart [pg 40](#)
7. Attach **(1.7) LED Light Kit - Poles** to each end of (1.1b) Dual Display Arms [pg 46](#)
8. Attach **(1.5c) Boom Pole** to each end of (1.1b) Dual Display Arms [pg 47](#)
9. Install **(1.5a) and (1.5b) Microphones** to (1.5c) Boom Pole [pg 48](#)
10. Attach **(1.7) LED Light Kit - LED Panels** to (1.7) LED Light Kit - Poles [pg 49](#)
11. Mount **(1.3) 24" Monitor** to the top of (1.1e) Big Copartment. [pg 50](#)
12. Mount **(1.2) 50"/ 55" Monitors** to (1.1b) Dual Display Arms. [pg 51](#)
13. Mount **(1.4) PTZ Camera** to (1.1c) Camera Mount. [pg 55](#)
14. Mount **(1.6a) Speaker/s** to (1.1f) Sound Bar Mount [pg 56](#)
15. Attach **(1.8d) Computer Mount** to the inside of (1.1e) Big Compartment [pg 57](#)
16. Install remaining components inside (1.1e) Big Compartment [pg 58](#)
17. Feed all cables through the top corners of (1.1e) Big Compartment. [pg 58](#)
18. Connect all components with the cables as identified in the Wiring Diagram [pg 59](#)

2.0 - AV Cart

1. Assemble **(2.1) Standing Desk** [pg 60](#)
2. Assemble **(2.2a) Zoom Rooms Console** [pg 63](#)
3. Install **(2.2b) iPad** into (2.2a) Zoom Rooms Console. [pg 66](#)
4. Install **(2.2c) Ethernet + PoE for iPad** into (2.2a) Zoom Rooms Console [pg 68](#)
5. Arrange all remaining components on surface of (2.1) Standing Desk [pg 69](#)
6. Connect all components with the cables as identified in the Wiring Diagram [pg 70](#)

3.0 - Whiteboard

1. Mount **(3.1) Whiteboard** to the wall [pg 71](#)
2. Mount **(3.2) Whiteboard Camera** to the wall above (3.1 Whiteboard) [pg 72](#)
3. Connect all components with the cables as identified in the Wiring Diagram [pg 74](#)

Step #1 - Assemble (1.1a) AV Cart - Main Structure

Heckler AV

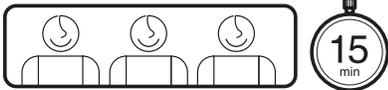
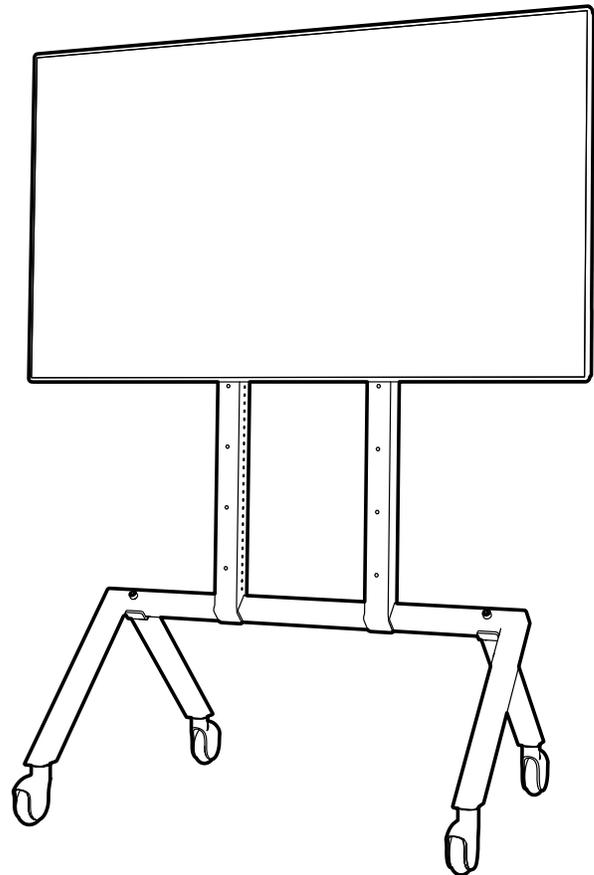


Hecklerdesign

AV CART

for VESA 400 Displays

Assembly & Installation



Watch Assembly Video:

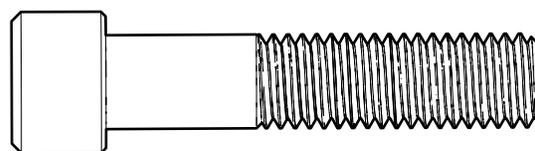
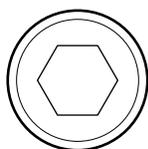
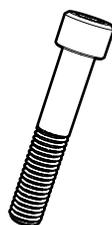


Limited Warranty

Heckler Design warrants your product hardware to be free from defects in material and workmanship throughout the life of the product, and electronic components for a period of one year from the original date of purchase. If you discover a defect in a product covered by this warranty, we will repair at our option using new or refurbished components, or if repair is not possible, replace the item. We reserve the right to request order numbers, receipts, and other supplemental order information as proof of purchase to validate warranty claims.

H489 R05

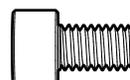
4x



Vertical Arm & Rear Leg
Assembly Screw (2 3/4 inch)

F515

8x



Multi Shelf Installation Screw

F522

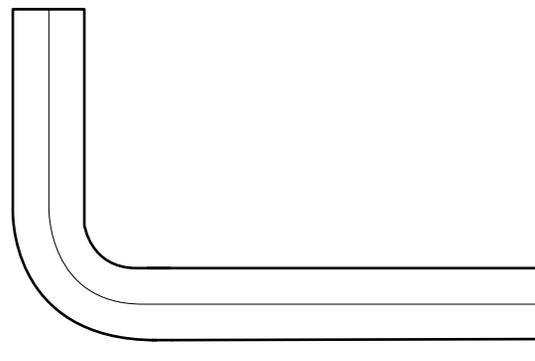
8x



Zip Tie Anchor Installation Screw

F533

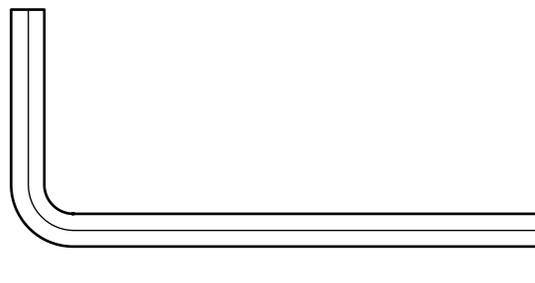
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3/8" Inch Hex Key-AV Cart

F516

1x

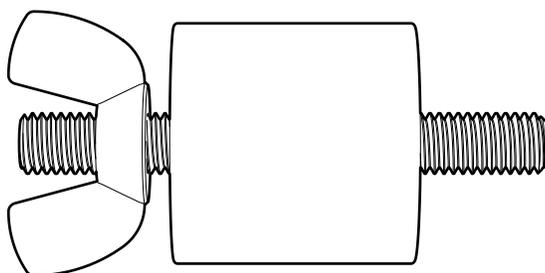
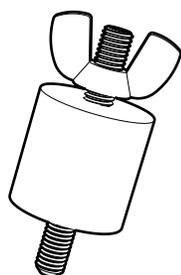


5mm Hex Key-MultiShelf Installation Tool

F523

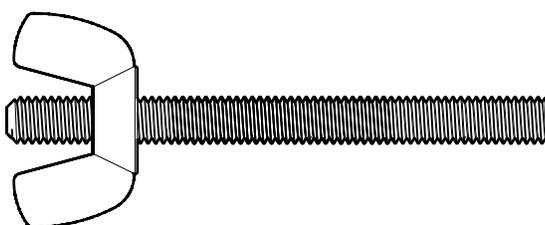
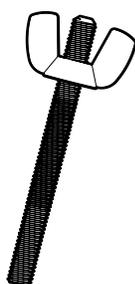
 Keep your special assembly tool in a safe place. To purchase a replacement, please contact service@hecklerdesign.com.

4x



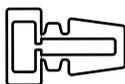
M8 Display Mounting Hardware
F521

4x



M6 TV Set Screw
F589

4x



Zip Tie Mount - Leg
F532

8x



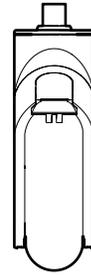
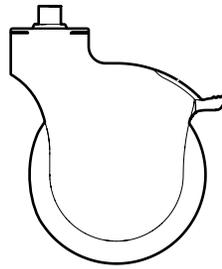
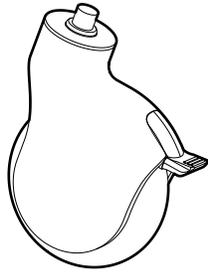
Zip Tie Mount - Vertical Arm
F531

8x



Zip Tie
F530

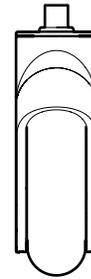
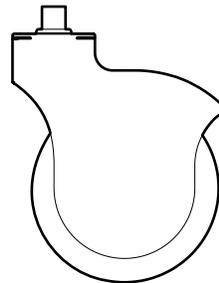
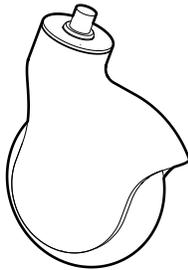
2x



Front Braking Casters (not to scale)

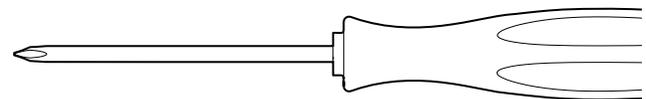
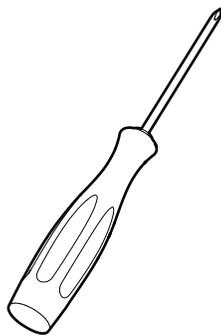
F562

2x



Rear Non - Braking Casters (not to scale)

F563



Phillips Head Screwdriver



VESA 400 hole pattern display recommended
(VESA Adapter Kit available for VESA 300, 500, 600 displays)

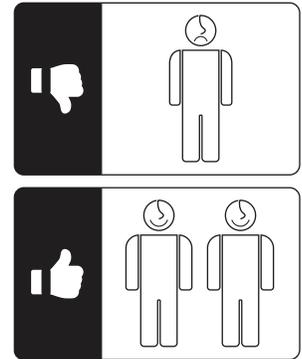
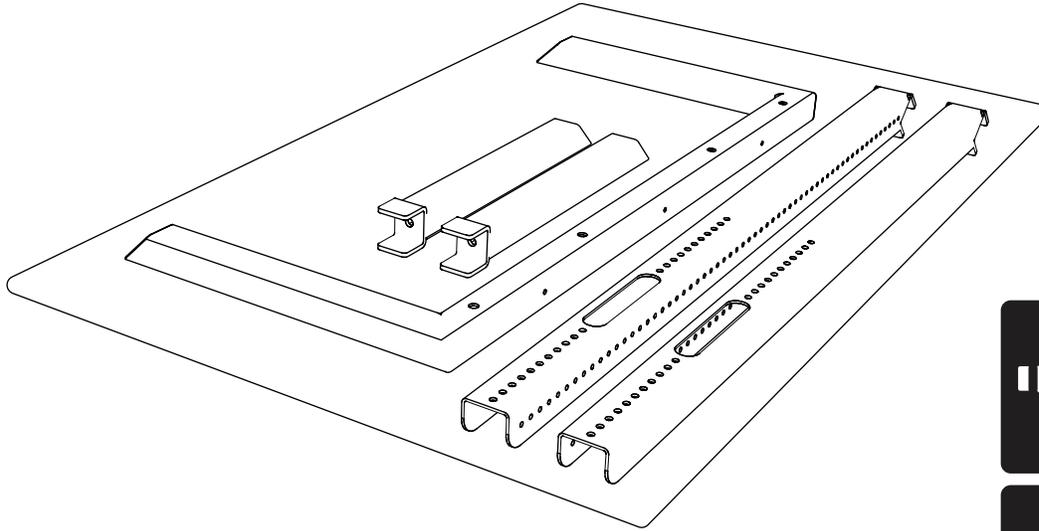
MAX display size: 75 inches

MAX load weight: 250 pounds

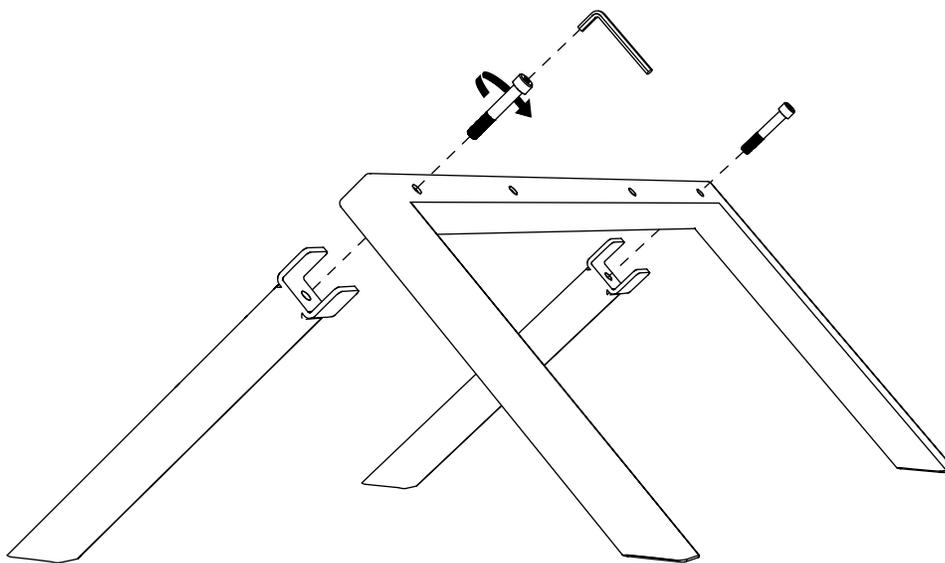
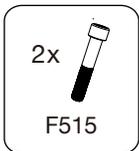
Two-Person assembly

Do not overtighten display mounting screws

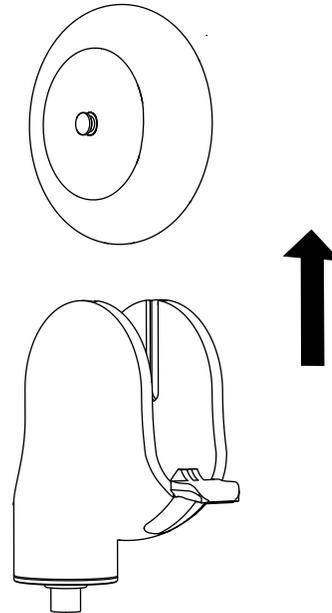
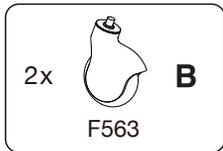
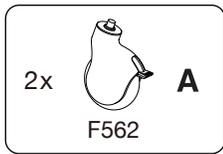
1 Unpack large parts onto soft surface



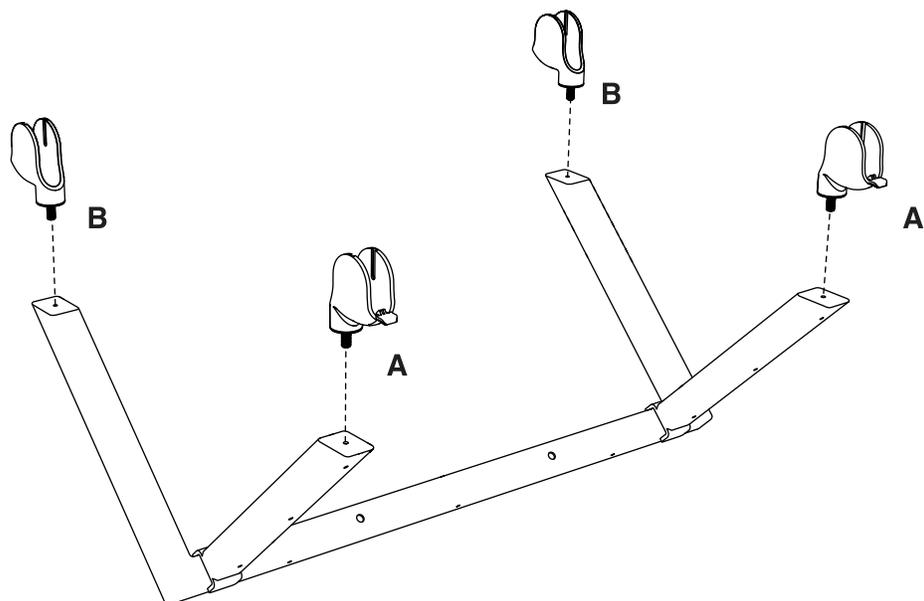
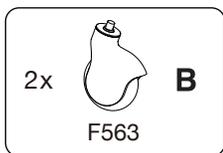
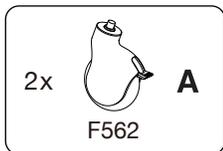
2 Assemble legs to base



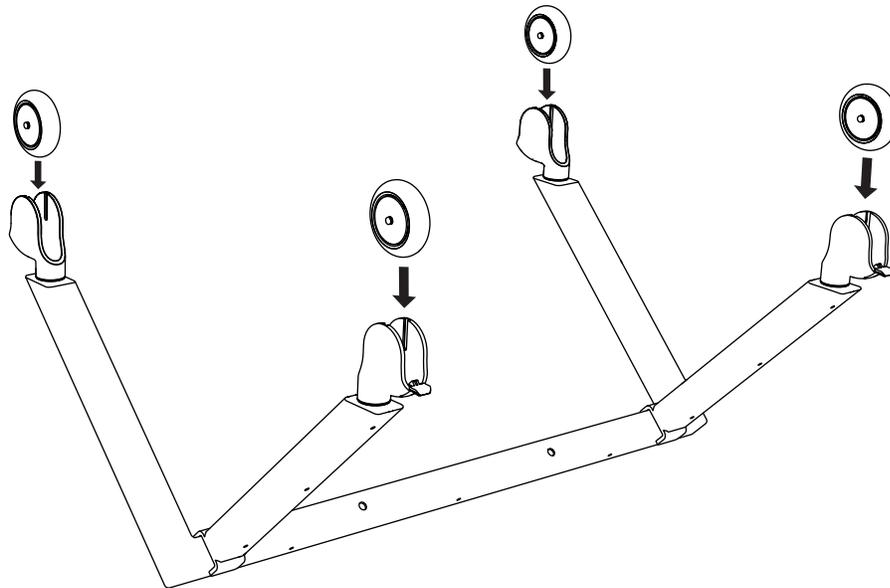
3 Pop the wheels out of casters



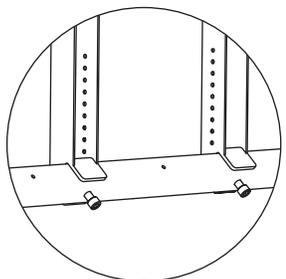
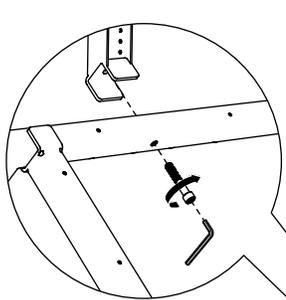
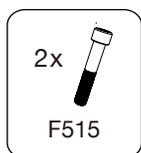
4 Install casters



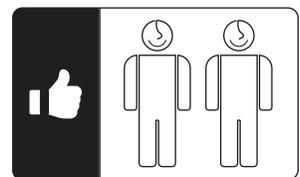
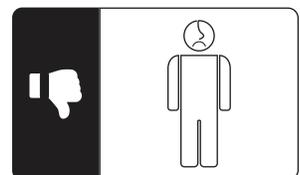
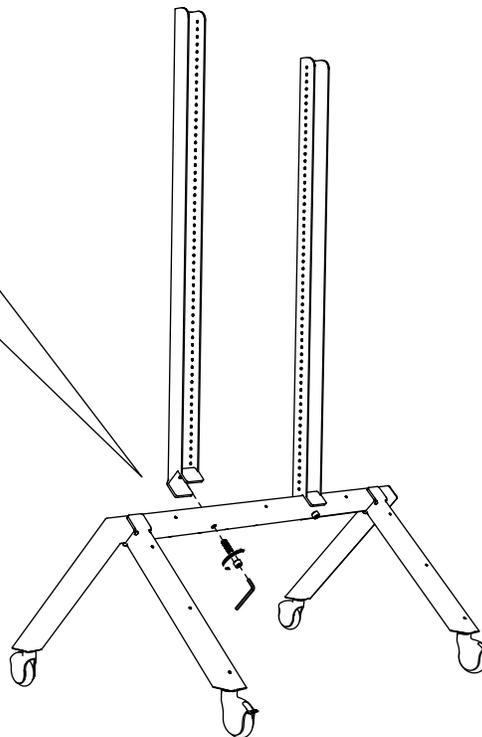
5 Pop the wheels back



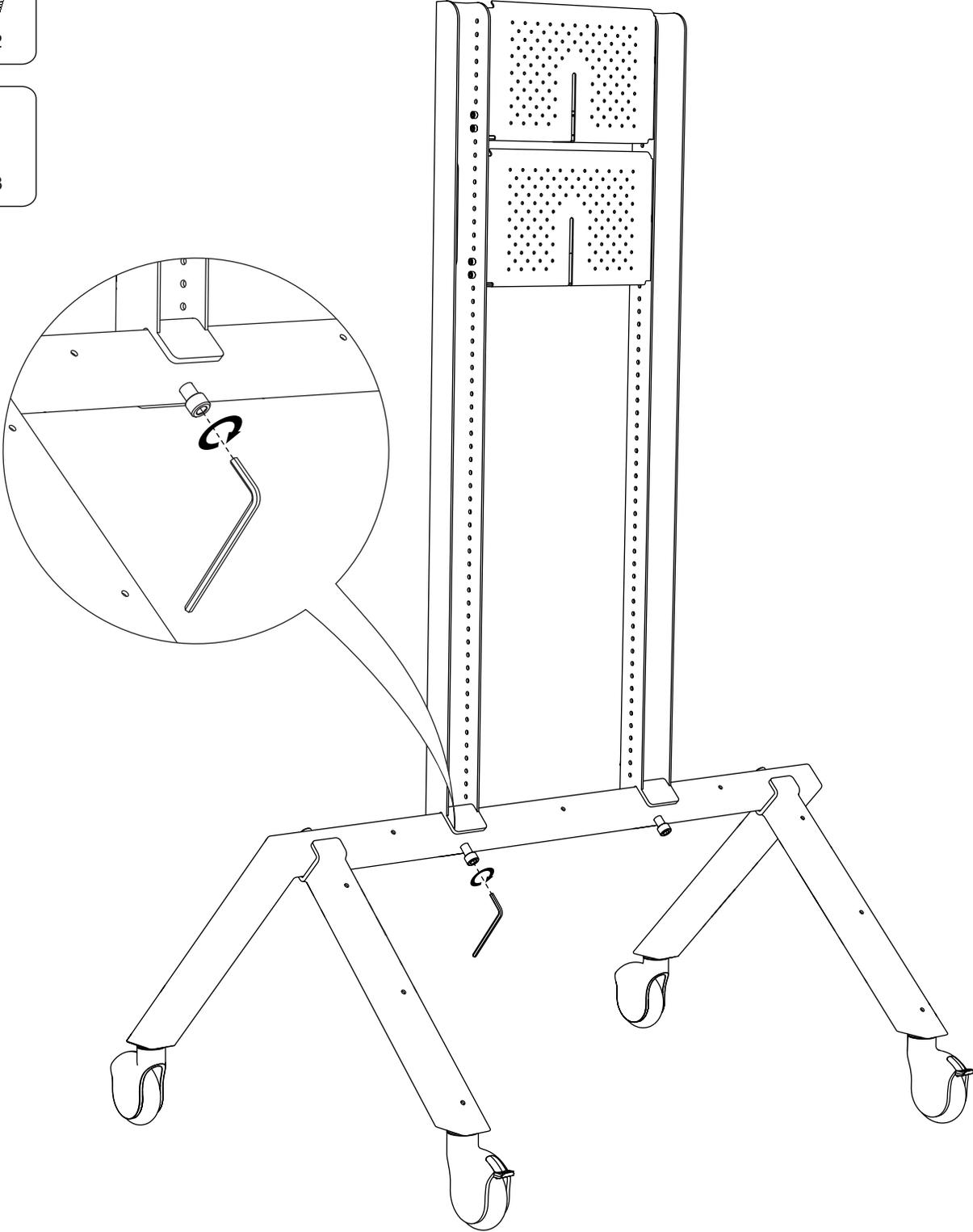
6 Assemble vertical arms to base



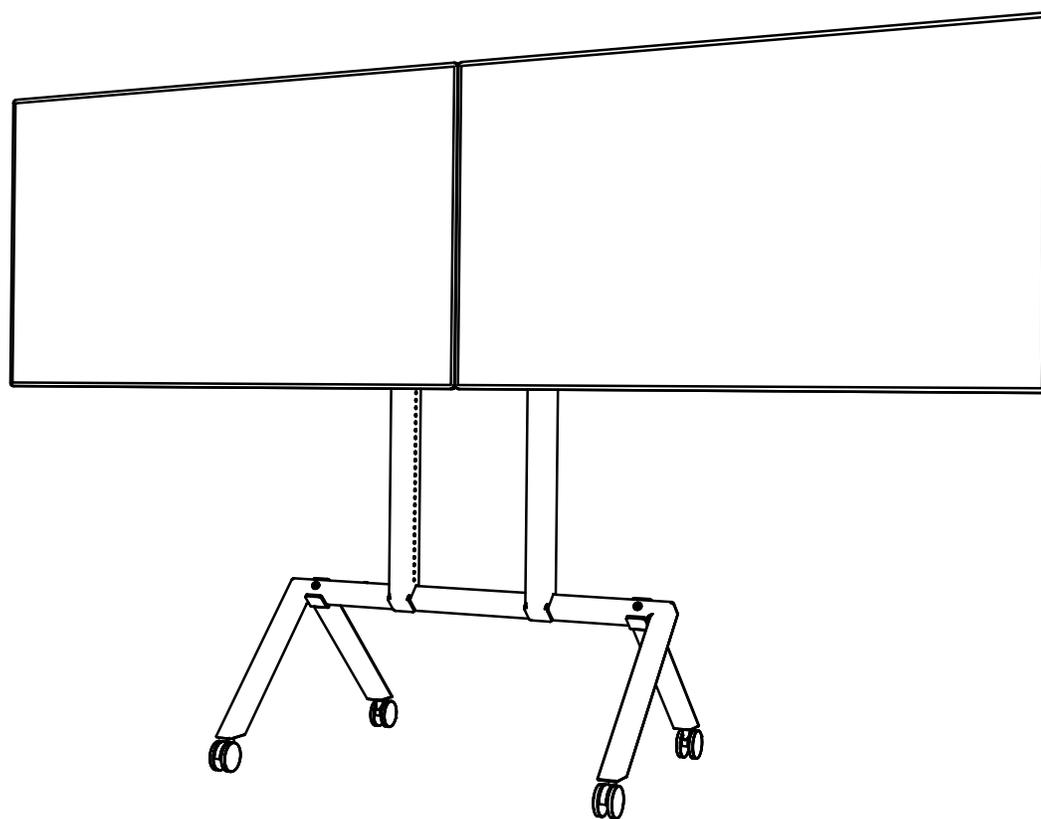
i Do not fully tighten arm assembly screws until Step 8



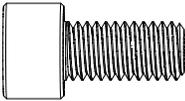
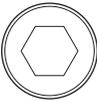
8 Tighten the arm assembly screws



Installing Dual Display Kit

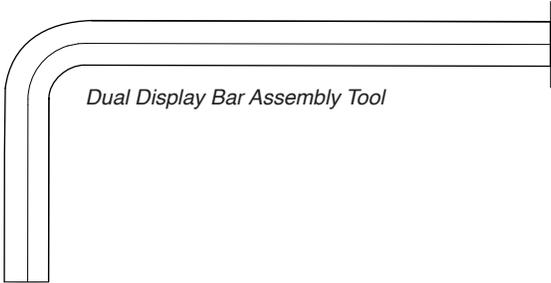


8x



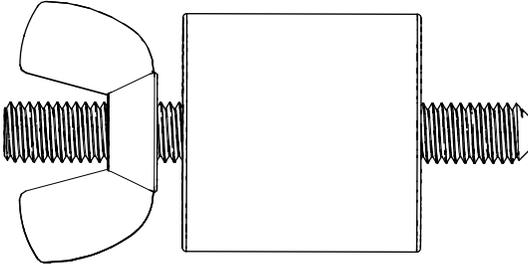
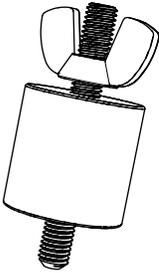
Dual Display Bar Mounting Screw

1x



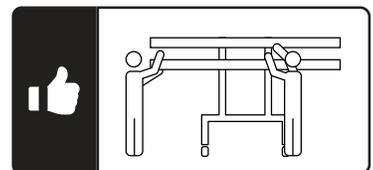
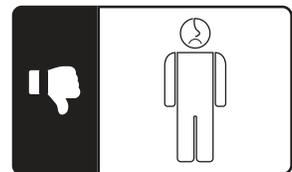
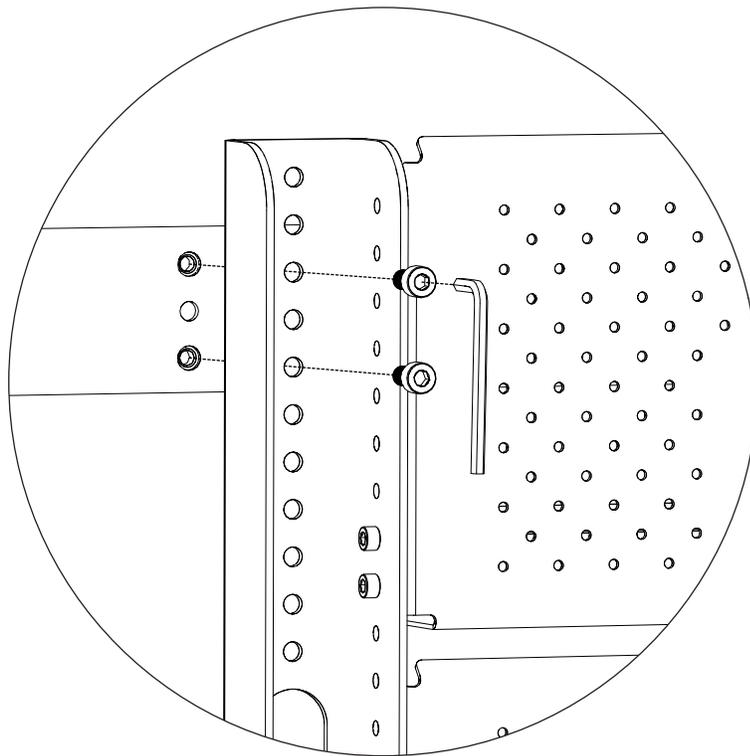
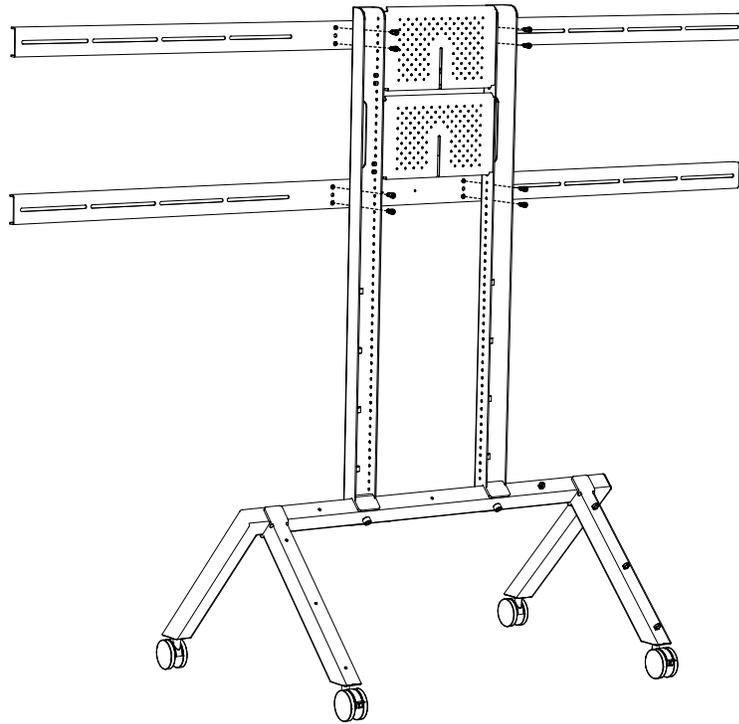
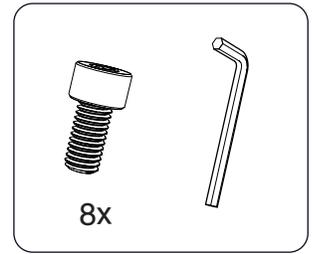
Dual Display Bar Assembly Tool

4x



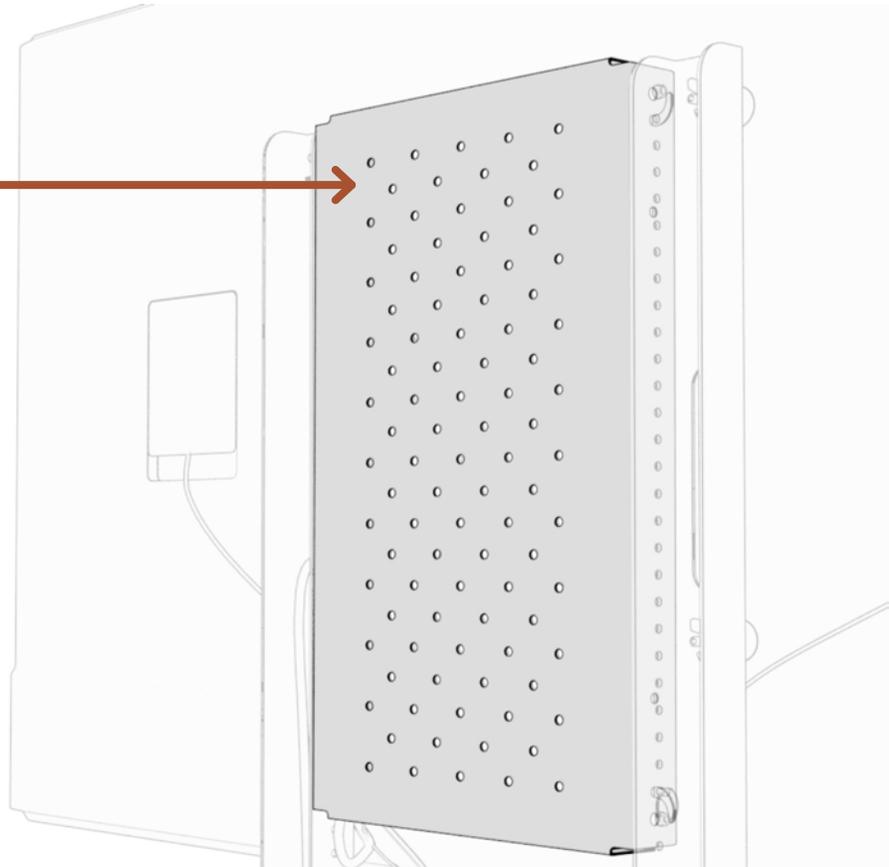
TV Mounting Hardware

1 Install Dual Display bars to vertical arms



Step #3 - Install (1.1e) Big Compartment

****NOTE:** Reverse the big compartment so the AV Equipment is exposed to the back to allow for mounting of **(1.3) 24" Monitor** to the hole pattern.



Heckler AV
BIG COMPARTMENT
for Heckler AV Cart
H536



4x

F522



2x

F533



1x

F523



6x

F530



4x

F653



4x

F492

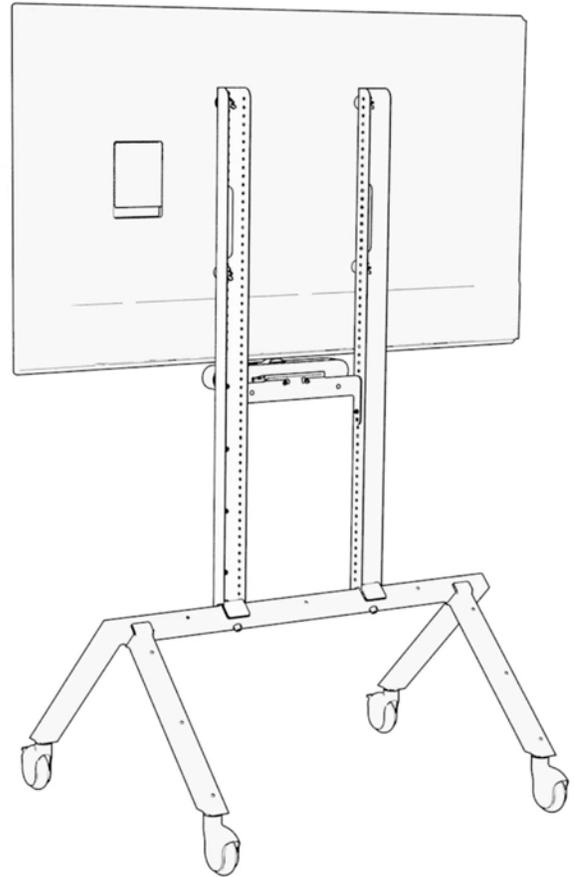


2x

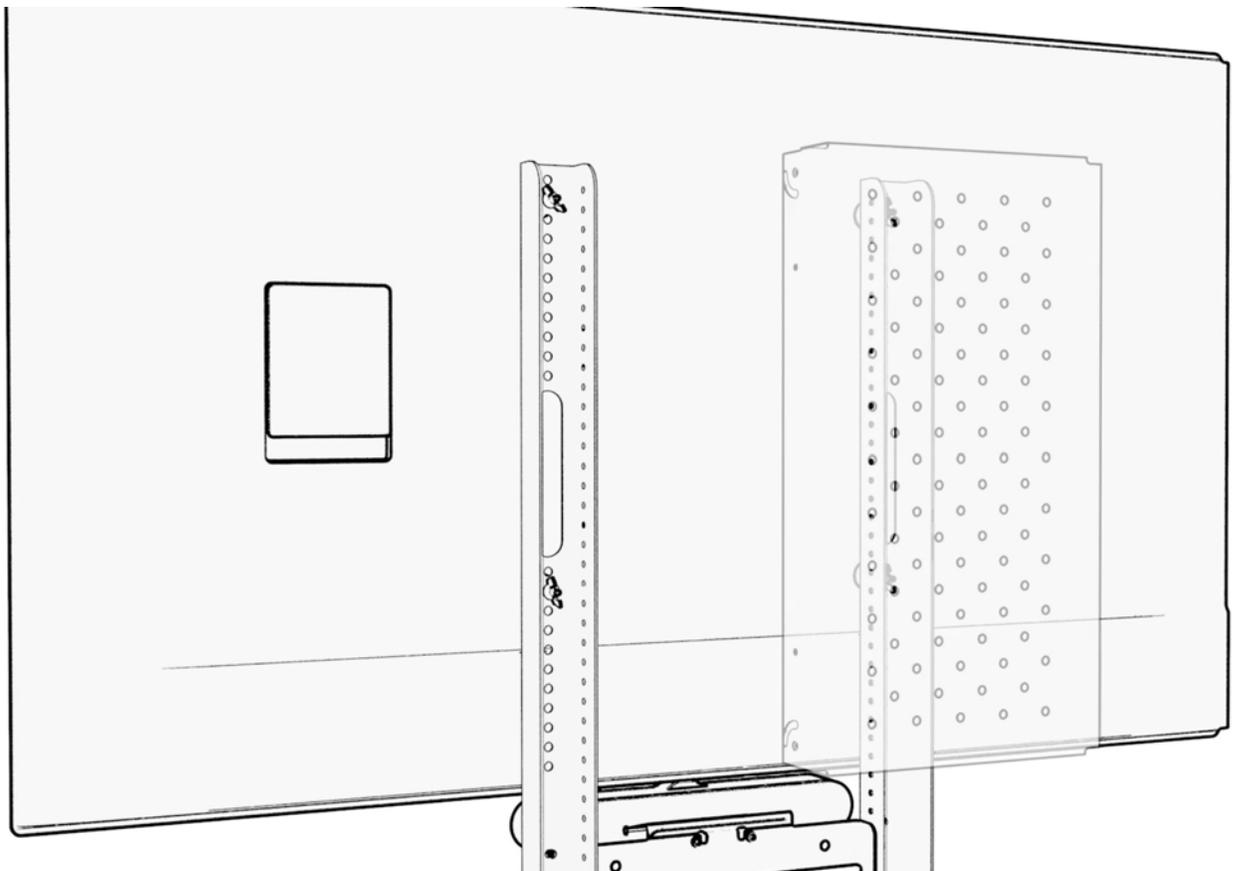
H536

1

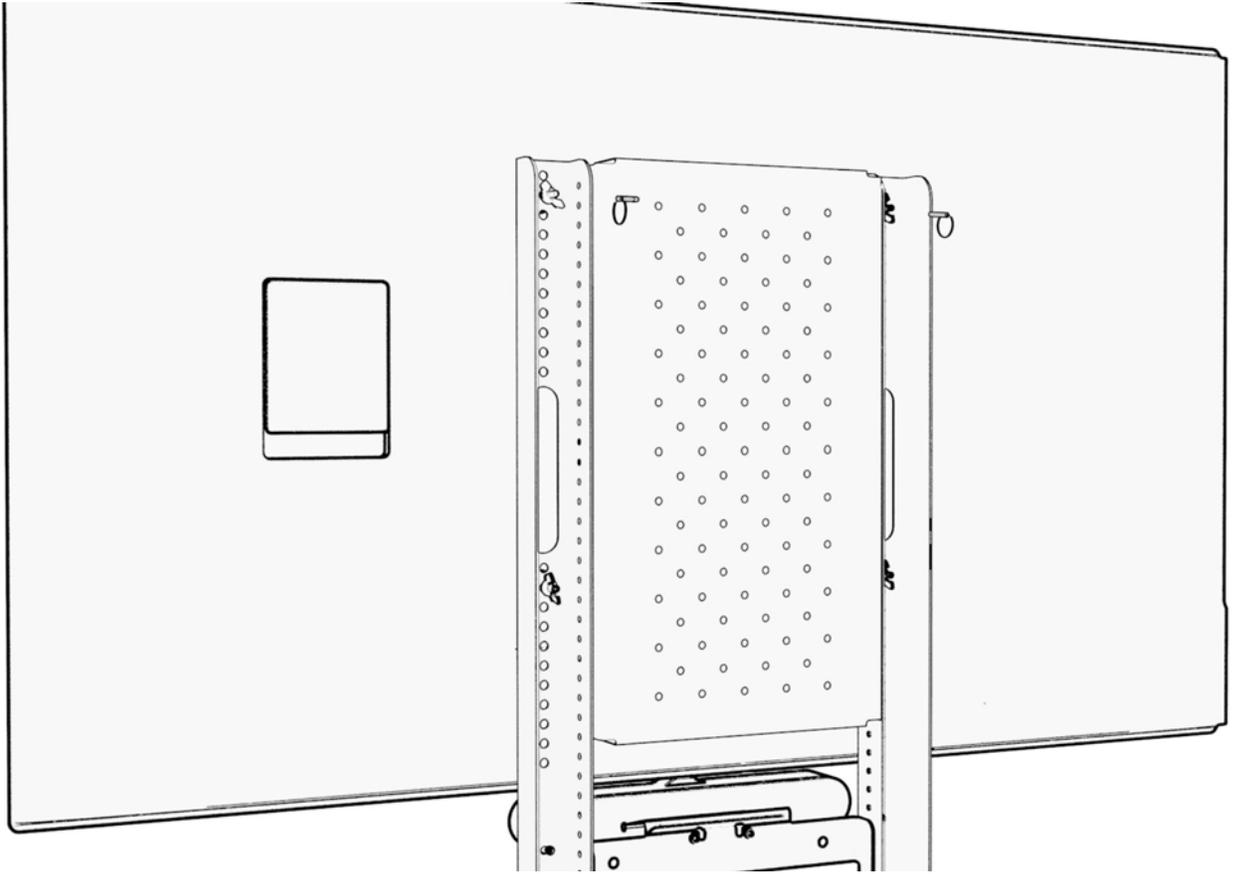
Install to Heckler AV Cart



2



3

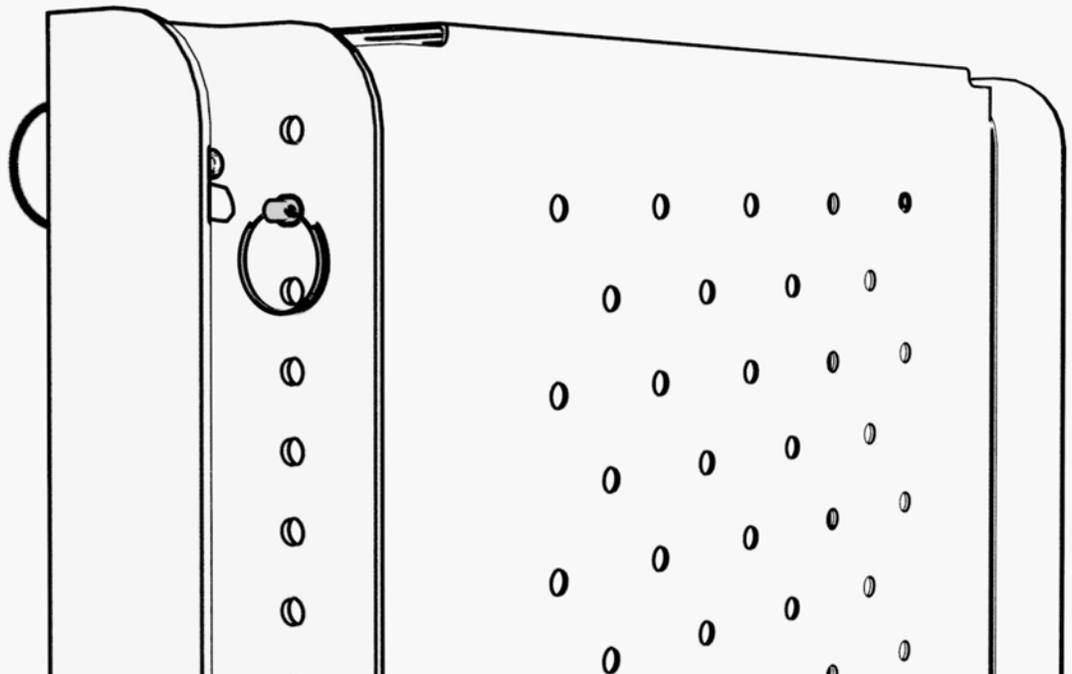


4

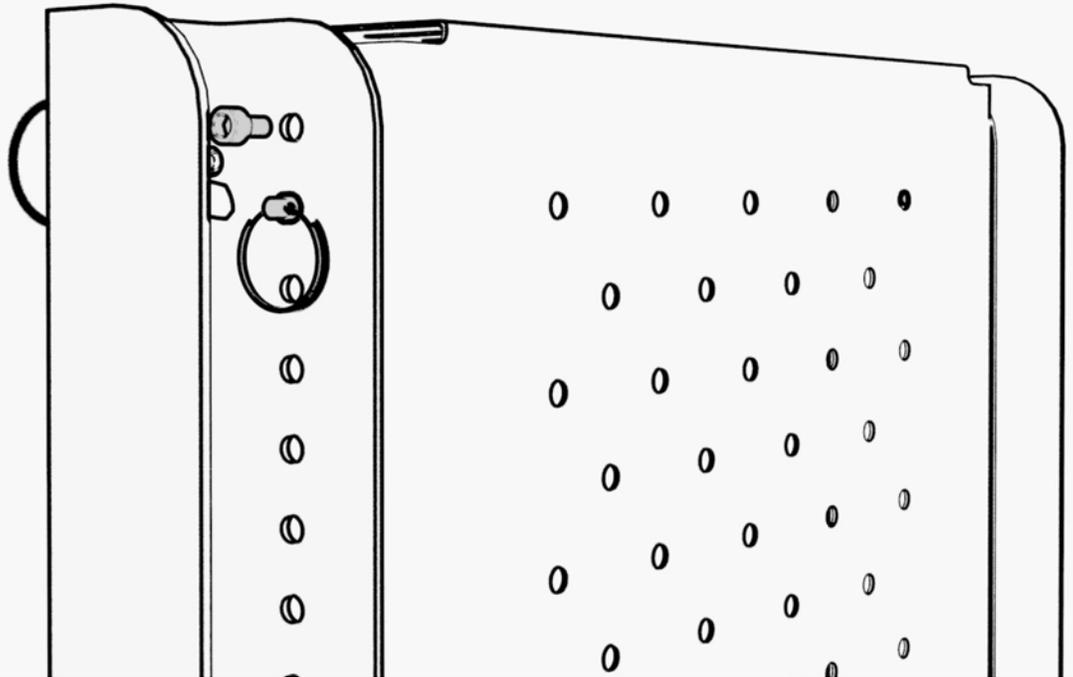
4x



F492



5



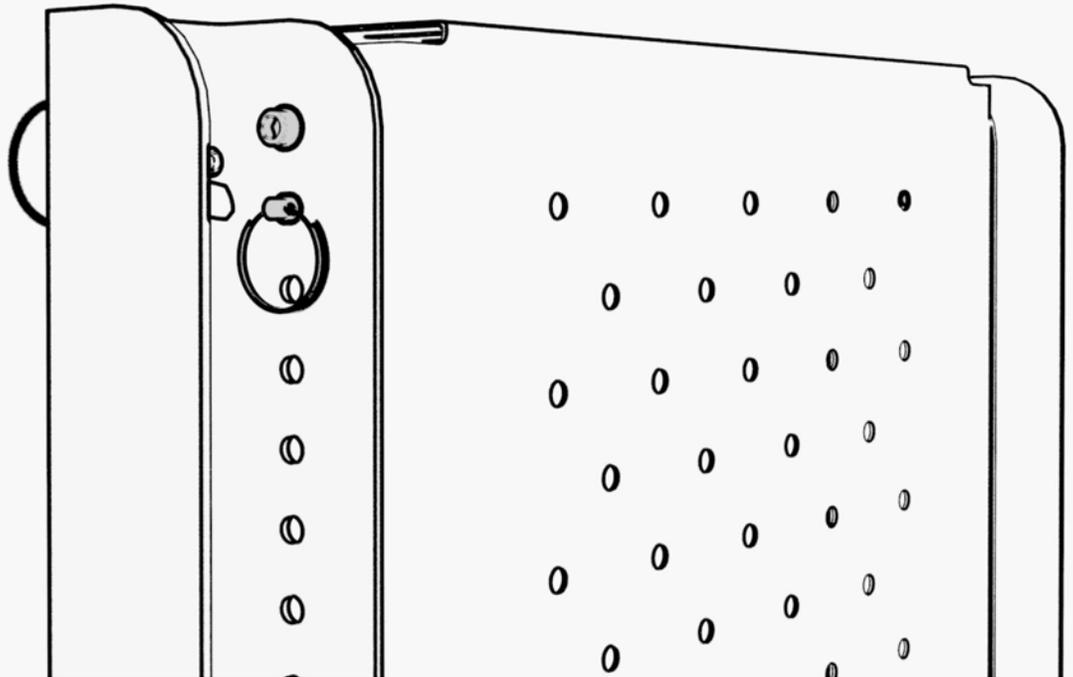
6



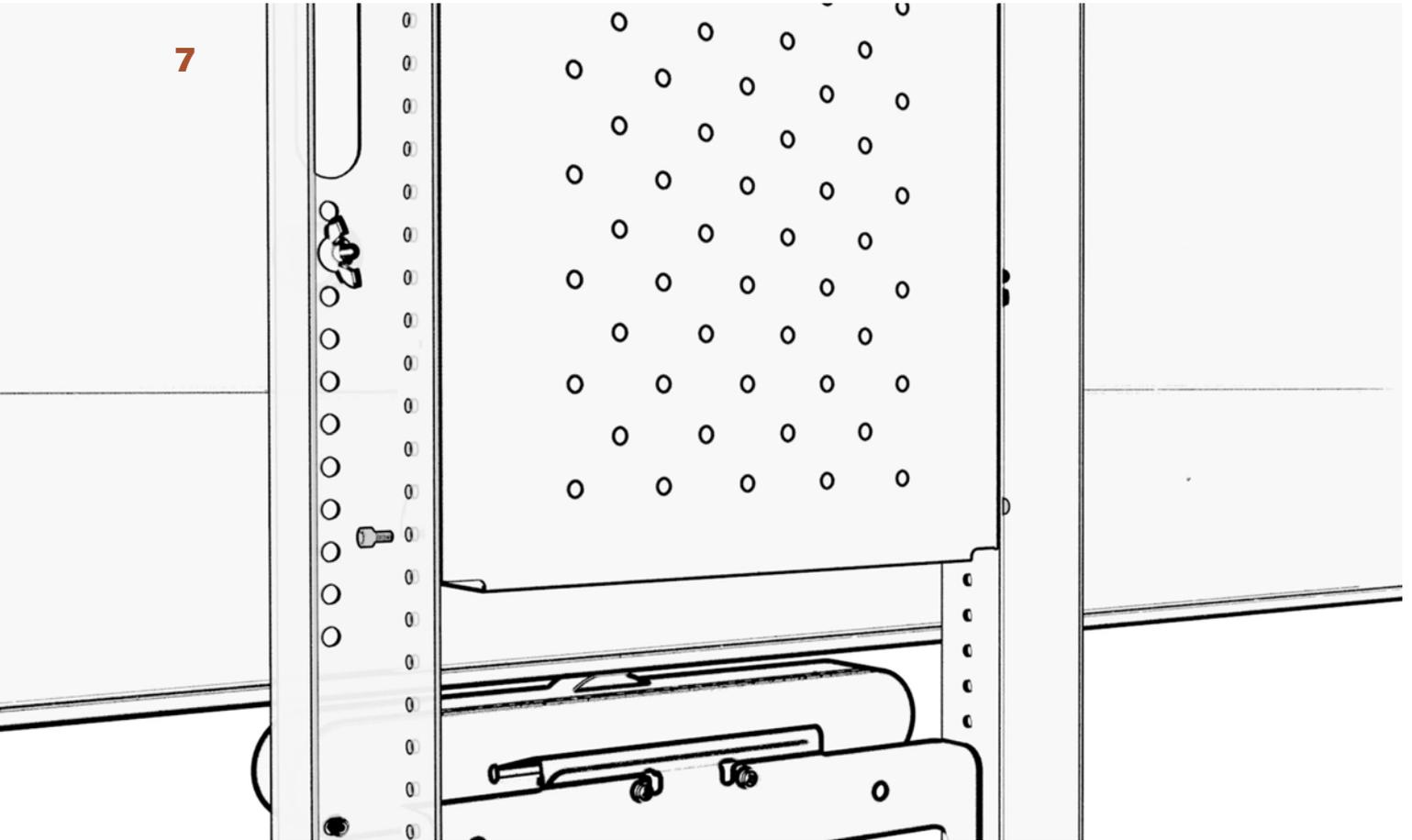
Optional: use screws for increased security



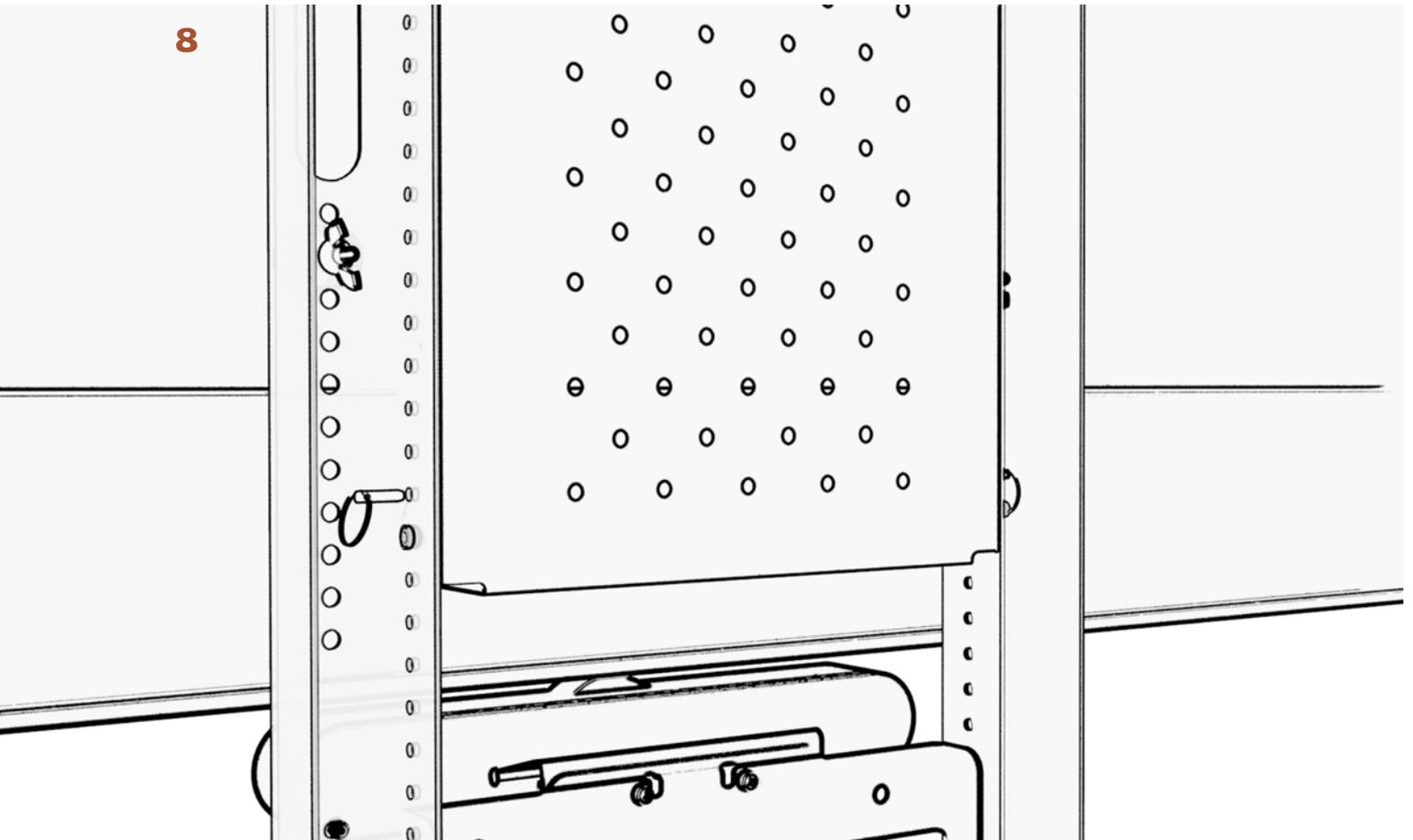
****NOTE:** Use the screws to secure the unit with the open side exposed to the back instead of as shown here



7

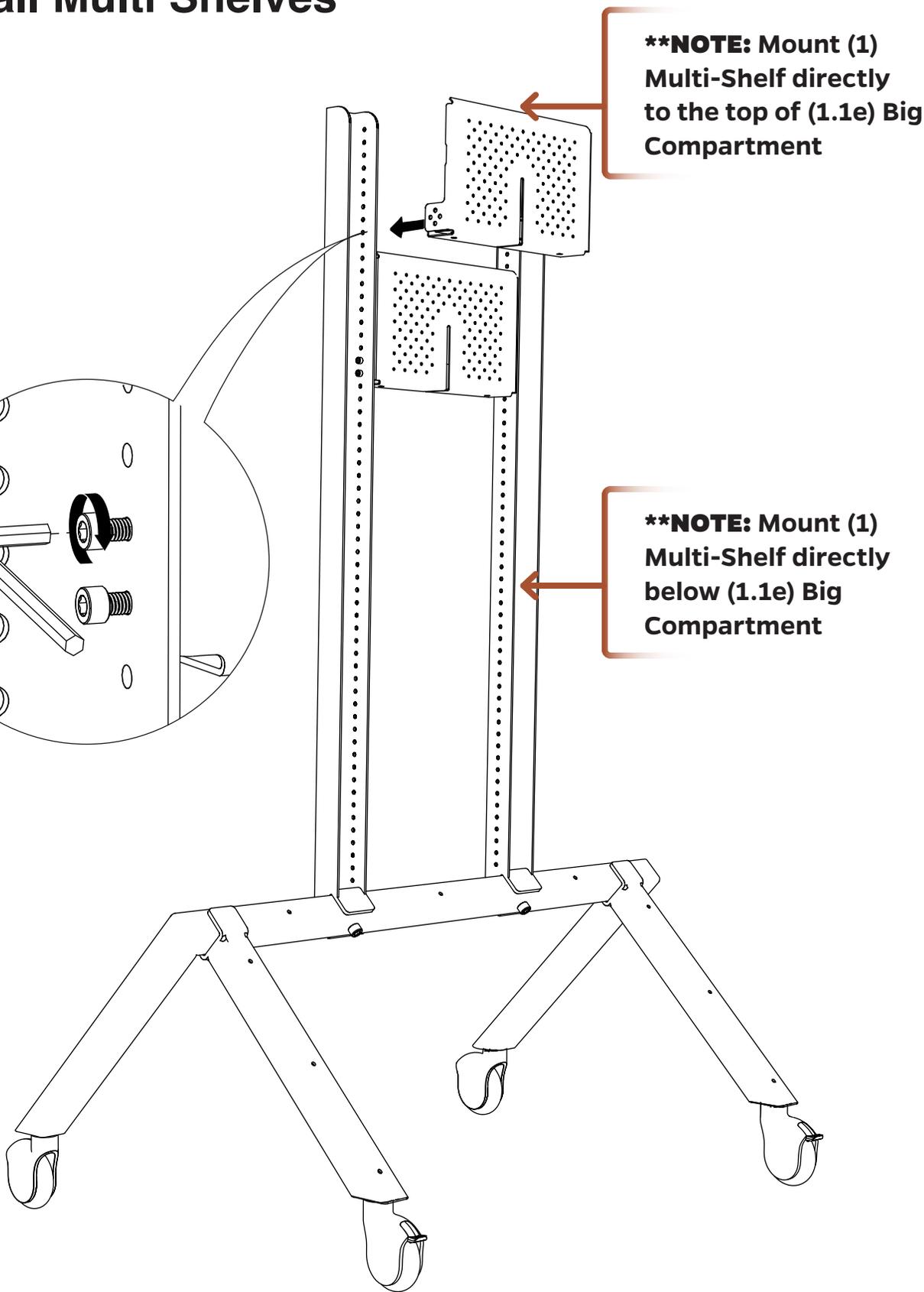
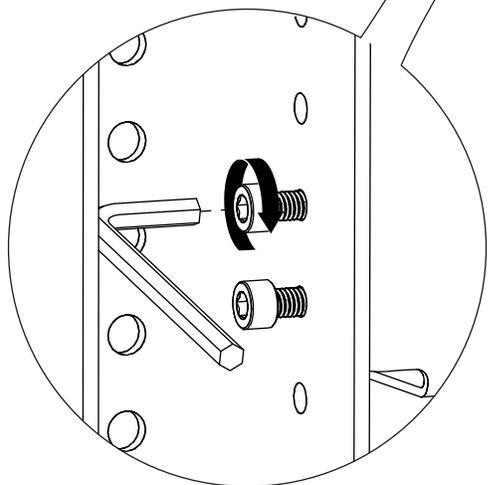


8



Step #4 - Install (1.1d) Multi-Shelf below (1.1e) Big Compartment

Install Multi Shelves

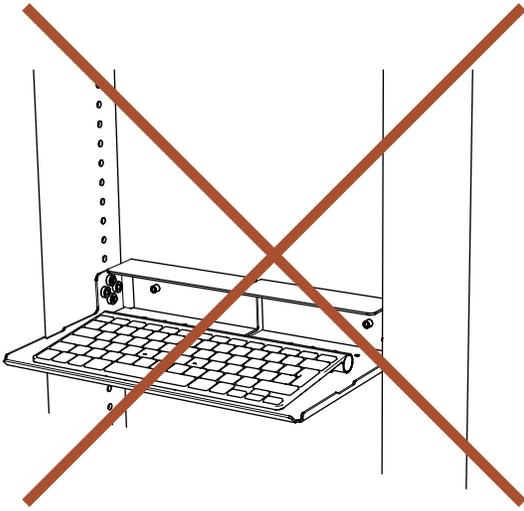


****NOTE: Mount (1) Multi-Shelf directly to the top of (1.1e) Big Compartment**

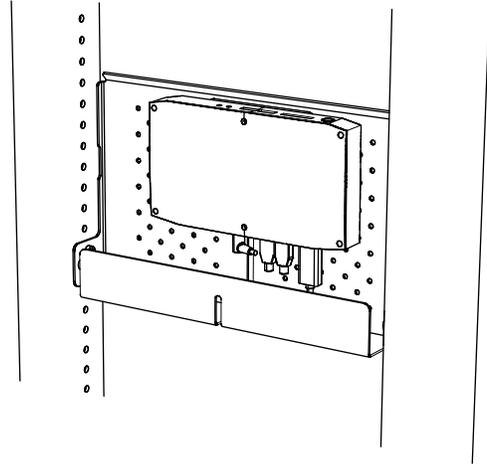
****NOTE: Mount (1) Multi-Shelf directly below (1.1e) Big Compartment**

Install Multi Shelves

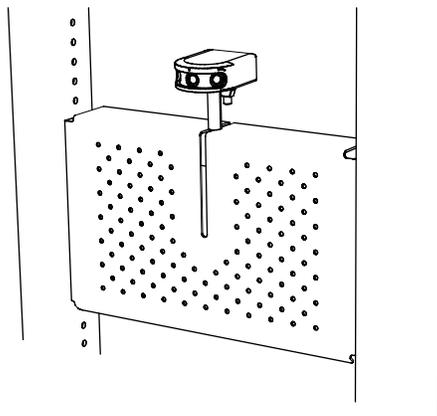
A



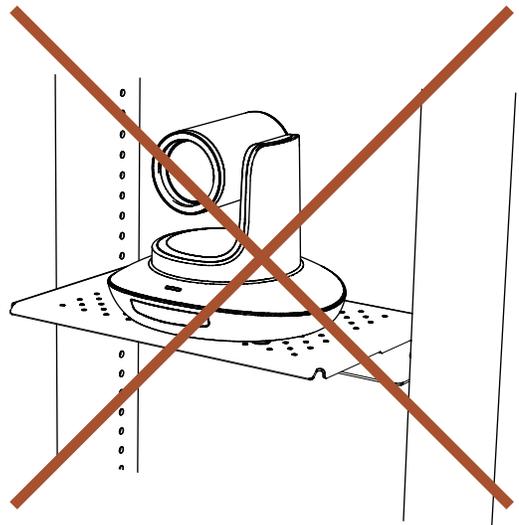
B



C



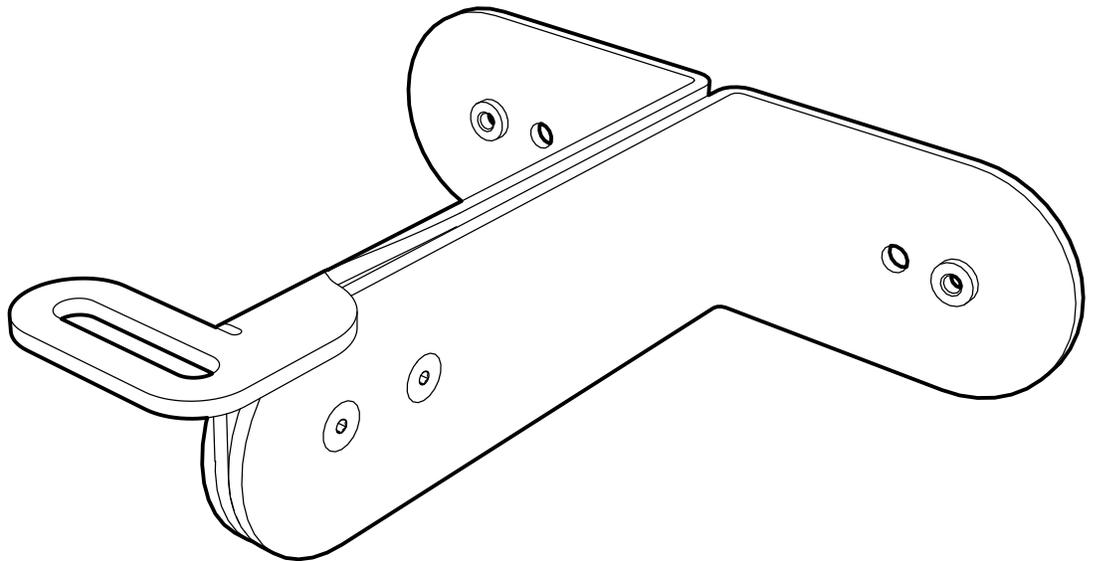
D



Heckler CAM MOUNT



Assembly & Installation



Compatible with:

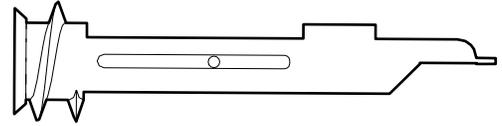
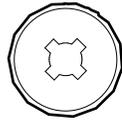
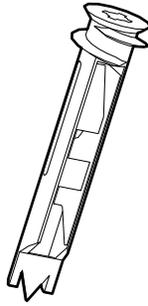
Panacast, Panacast 2, AVer Cam520, AVer Cam530, AVer VC520, AVer All-in-One, Logitech

ConferenceCam Connect, Logitech ConferenceCam BCC950, Logitech ConferenceCam CC3000e, Logitech Group ConferenceCam, Logitech PTZ Pro, Logitech Webcam c930a, Logitech HD Pro Webcam C920, Logitech Brio

Limited Warranty

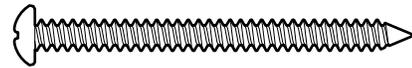
Heckler Design warrants your product to be free from defect in material and workmanship for a period of two years from the original date of purchase. Electronic components are warranted to be free from defect for a period of one year from the original date of purchase. If you discover a defect, please contact service@hecklerdesign.com. Heckler Design will repair, at our discretion, using new or refurbished components. If repair is not possible, Heckler Design will replace the item.

2x



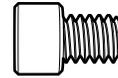
Drywall Anchor
F539

2x



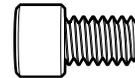
Drywall Screw
F540

1x



Camera Mounting Screw
1/4" - 20, 5/16" Long
F555

1x



Camera Mounting Screw
1/4" - 20, 3/8" Long
F556

2x



Cart Mounting Screw - M4
F542

1x



Length Adjustment Tool - 5/64" Hex Key
F165

1x



Mounting Tool for Heckler AV Cart
- 3mm Hex Key
F537

1x

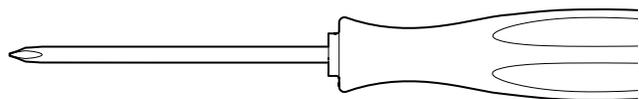
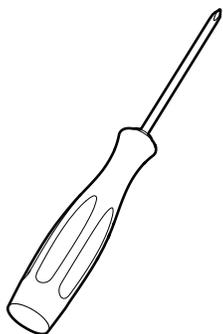


Camera Mounting Tool - 3/16" Hex Key
F545

2x

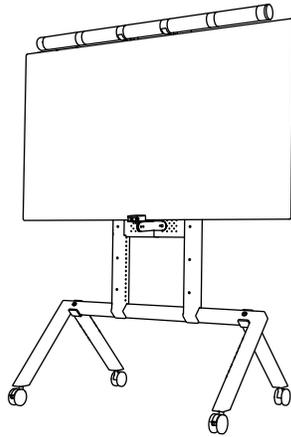


Screw Cap
E123

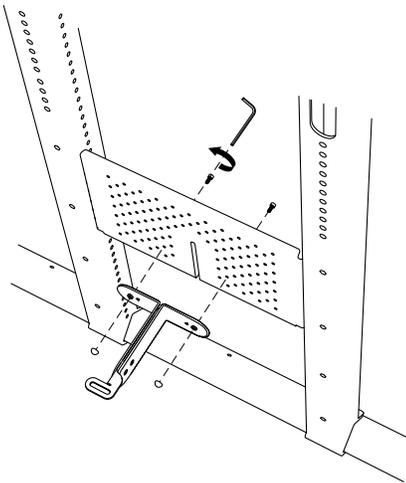


Phillips Head Screwdriver

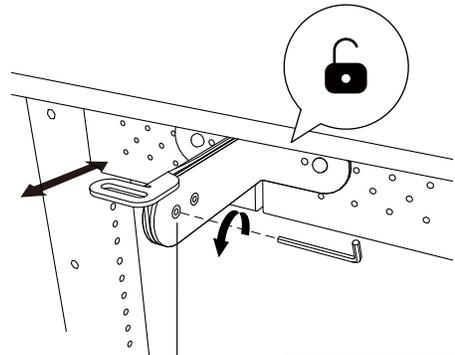
Option B - Mount to Heckler AV Cart



1

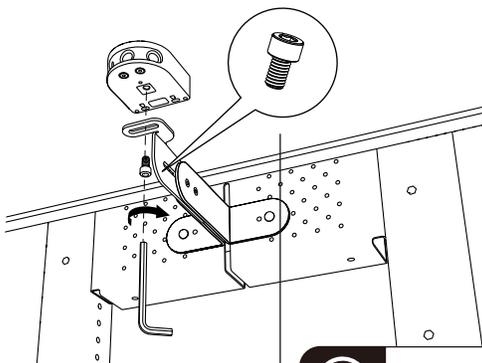


2



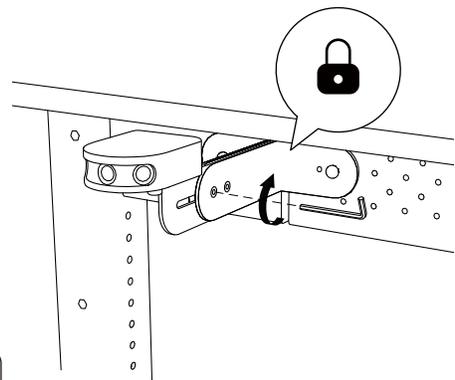
i Loosen, but do not remove.

3



i Select the Camera Mounting Screw that works best with your camera.

4



Step #6 - Install (1.1f) Sound Bar Mount to (1.1a) AV Cart

H707 - Soundbar Mount

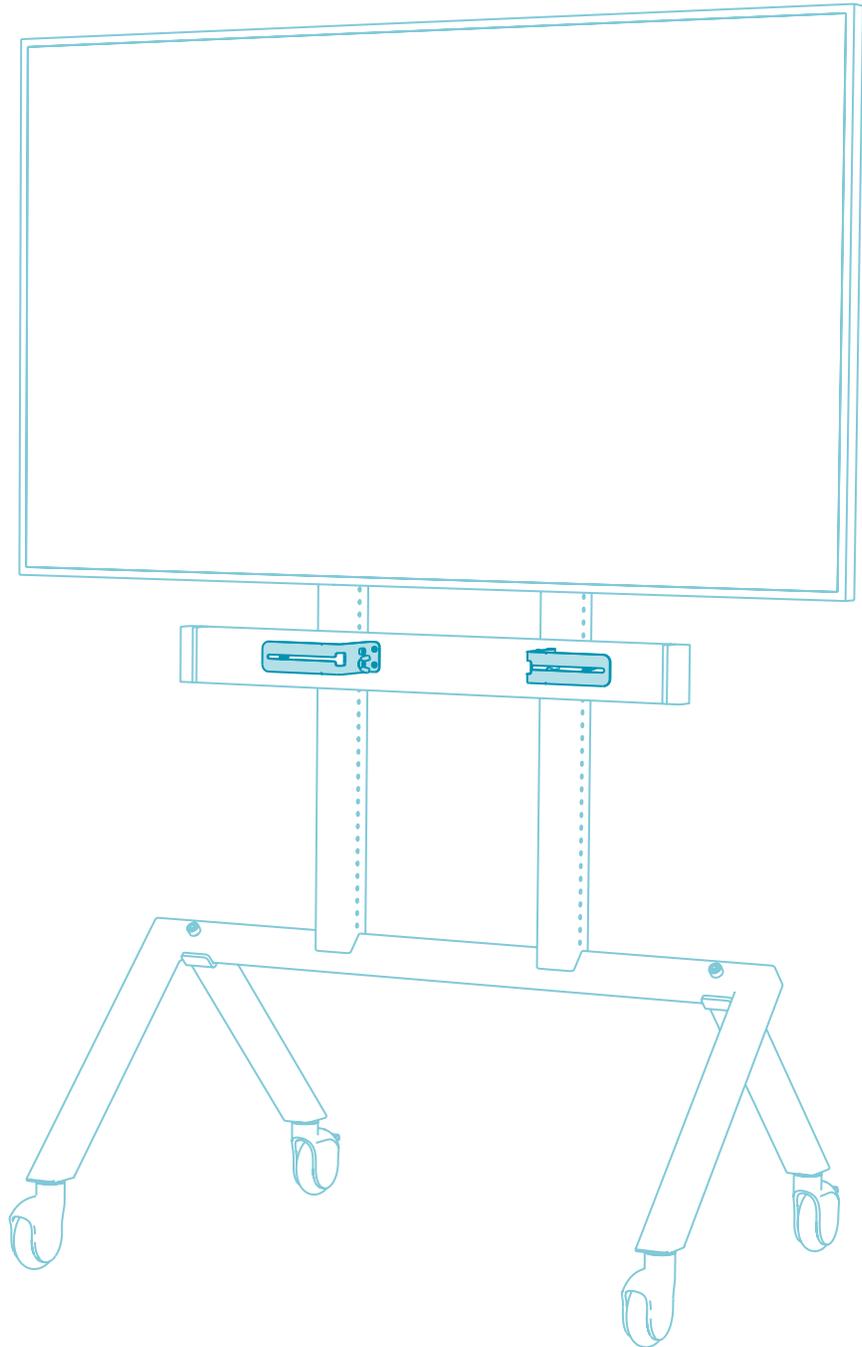
for Heckler AV Cart

Compatible with most soundbar and soundbar-shaped devices with M4, M5, or 1/4-20 mounting points spaced apart from 74 mm to 726 mm.

If you have any questions, please contact Heckler.

service@hecklerdesign.com

844-432-5930



IN THE BOX

- A** 2 x Soundbar Mounting Bracket
- B** 1 x Hex Key, 5mm
- C** 4 x Screw, M6, 10mm
- D** 4 x Wingnut, M6

M4 Soundbar-mounting Hardware

- E** 2 x Set Screw, M4, 20mm
- F** 2 x Wingnut, M4

M5 Soundbar-mounting Hardware

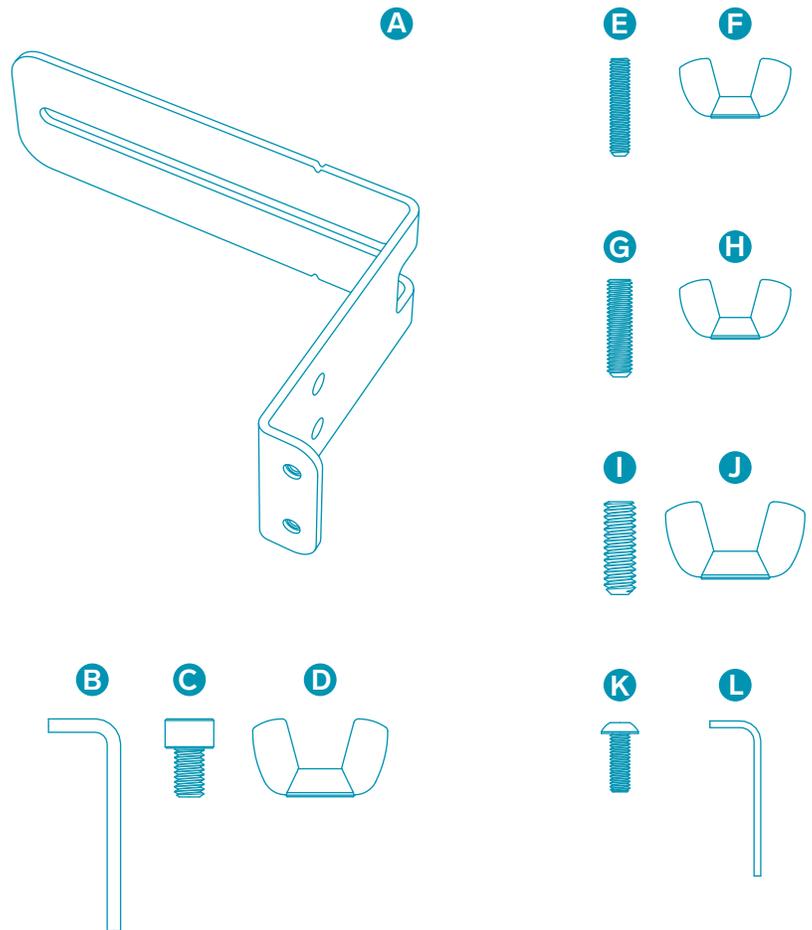
- G** 2 x Set Screw, M5, 20mm
- H** 2 x Wingnut, M5

1/4"-20 Soundbar-mounting Hardware

- I** 2 x Set Screw, 1/4-20, 3/4"
- J** 2 x Wingnut, 1/4-20

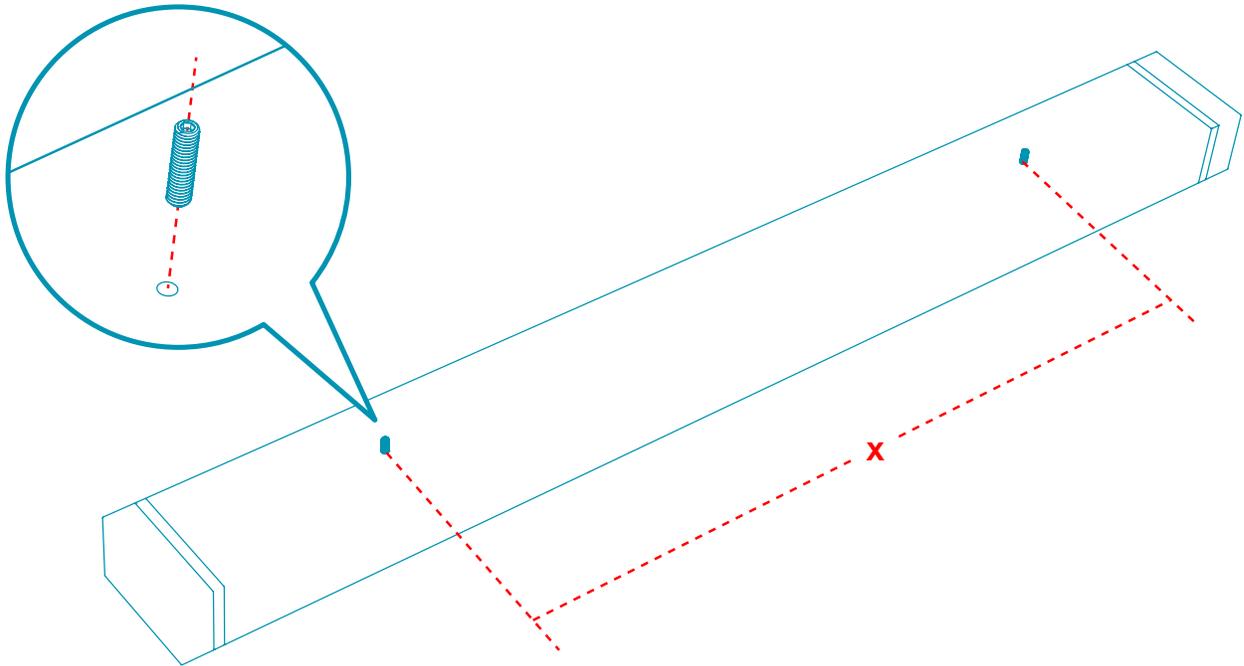
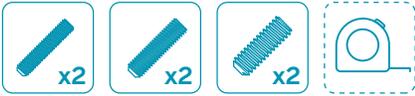
For Mounting to H702 Device Panel

- K** 4 x Screw, M4, 12mm
- L** 1 x Hex Key, 2.5mm



STEP 1

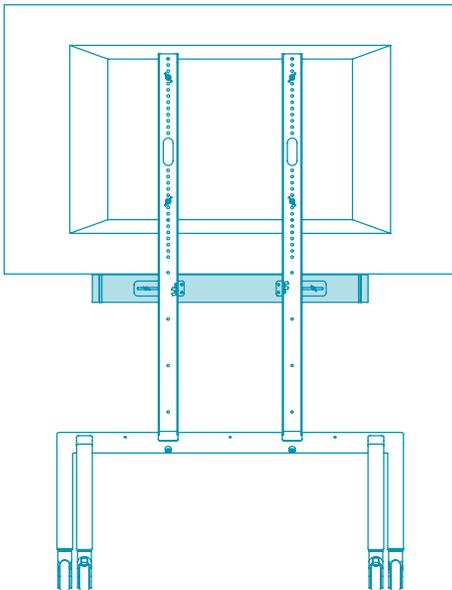
Fasten the appropriate size of set screws to the soundbar and measure the distance between the mounting points.



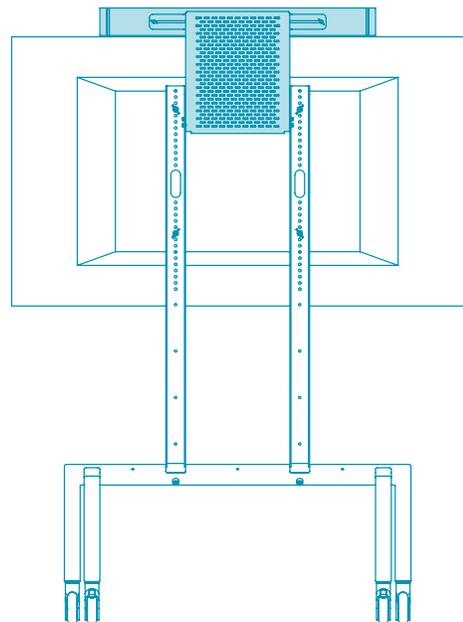
STEP 2

Determine your ideal soundbar position.

Below the display.
Go to page 4.



Above the display.
Go to page 11.



Mounting below the display

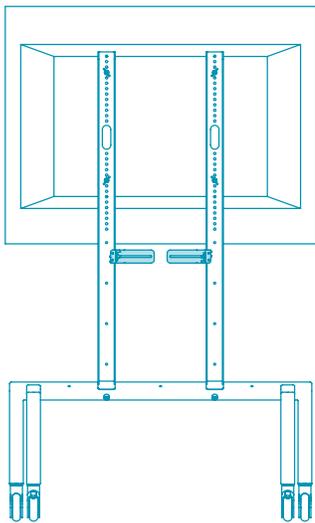
STEP 3

Based on the distance between your soundbar's mounting points, determine the correct installation of the soundbar-mounting brackets.

Option A

74 to 273mm (3 to 10.75 inches)

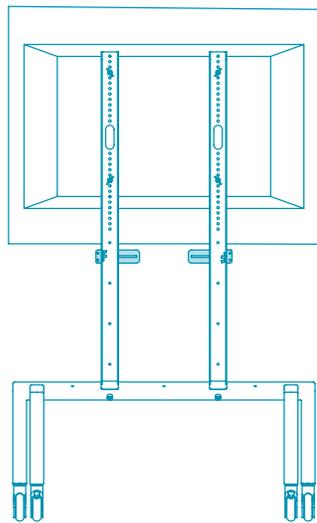
See Page 5



Option B

273 to 400mm (10.75 to 15.75 inches)

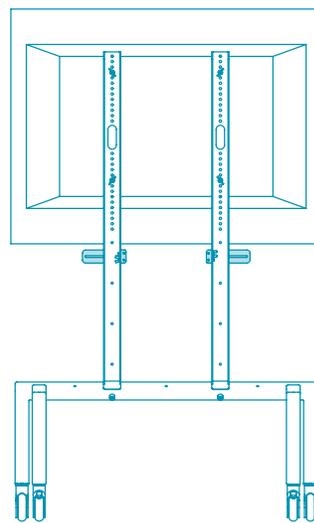
See Page 6



Option C

400 to 585mm (15.75 to 23 inches)

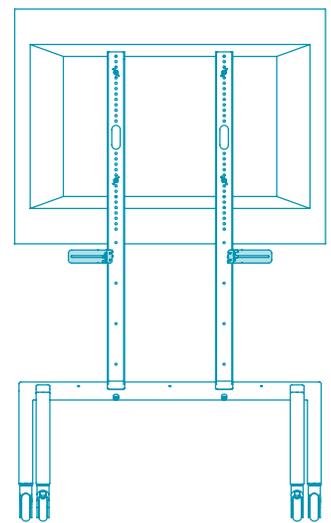
See Page 7



Option D

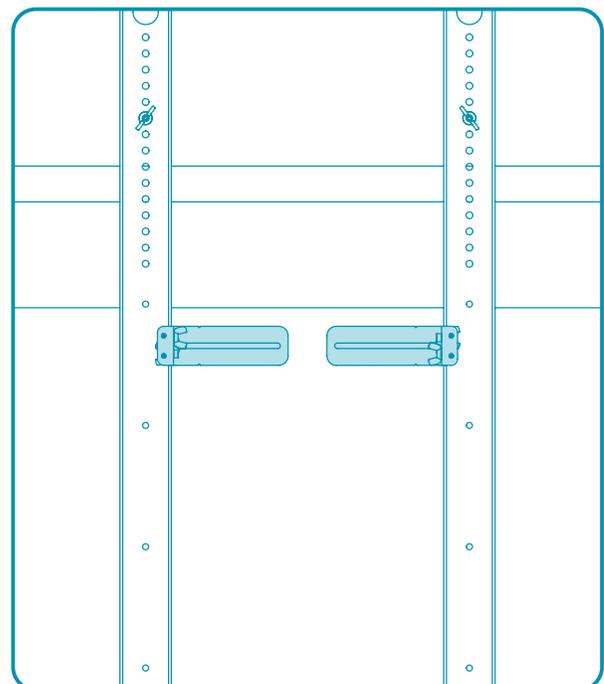
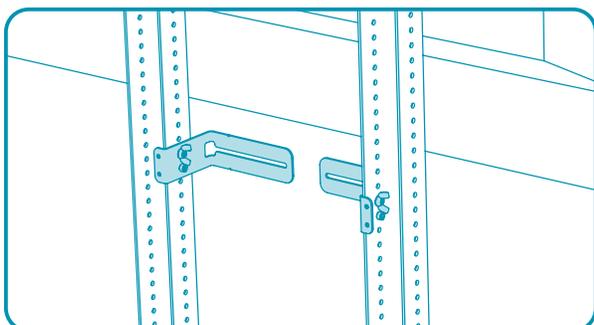
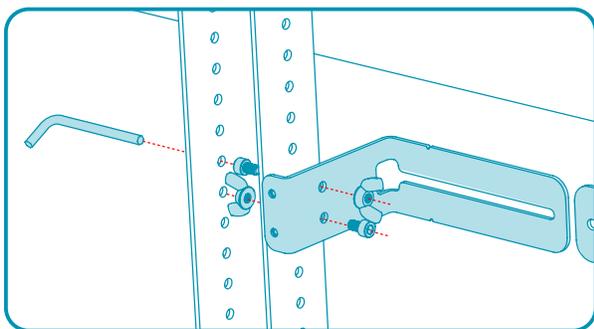
585 to 726mm (23 to 28.5 inches)

See Page 8



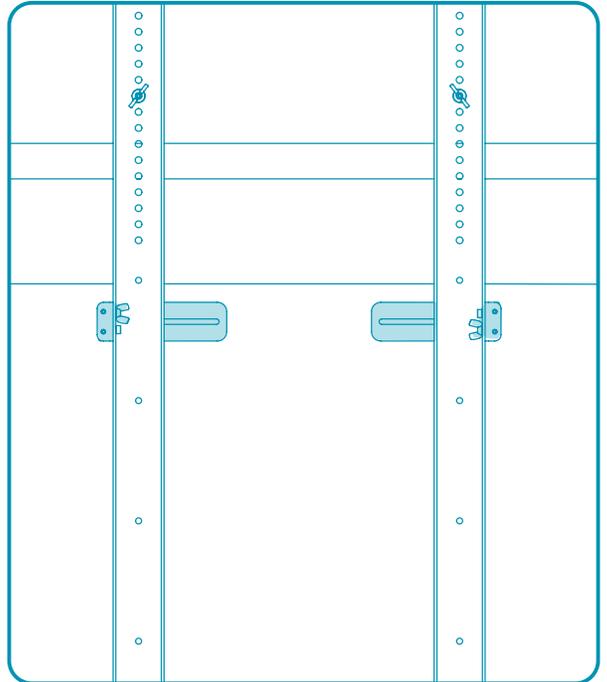
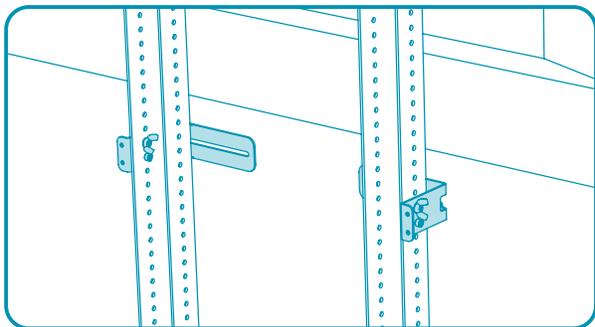
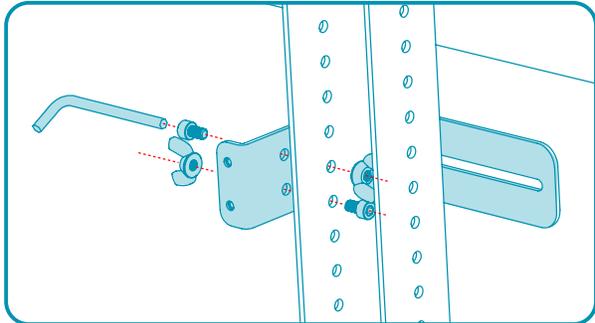
Option A

When the distance between your soundbar's mounting points are spaced 74 to 273mm (3 to 10.75 inches) apart.



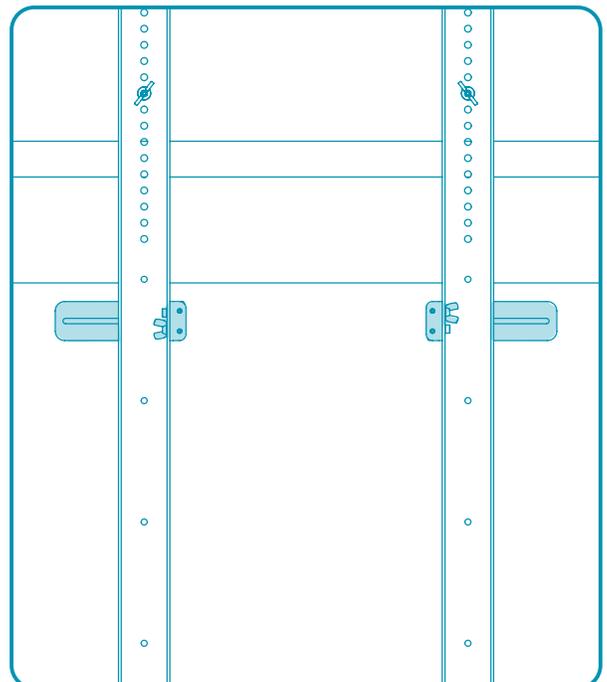
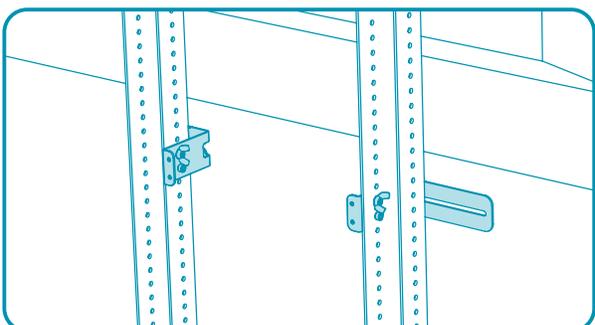
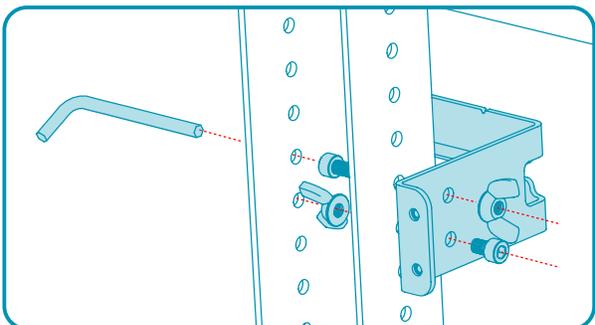
Option B

When the distance between your soundbar's mounting points are spaced 273 to 400mm (10.75 to 15.75 inches) apart



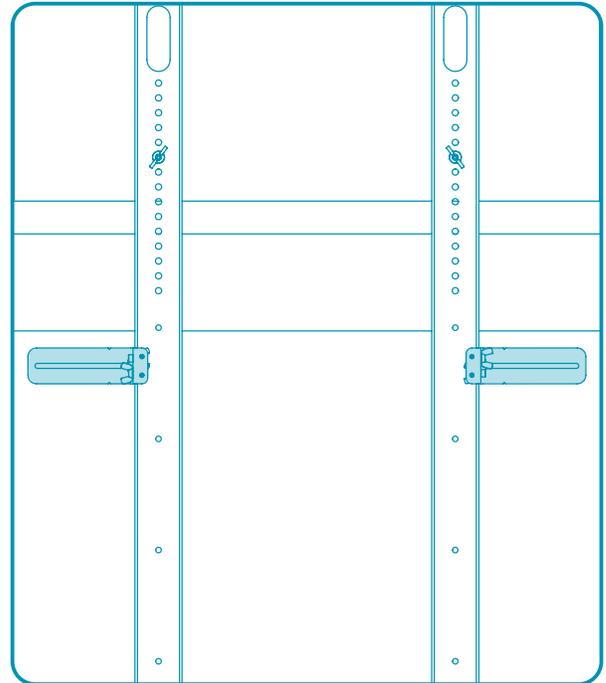
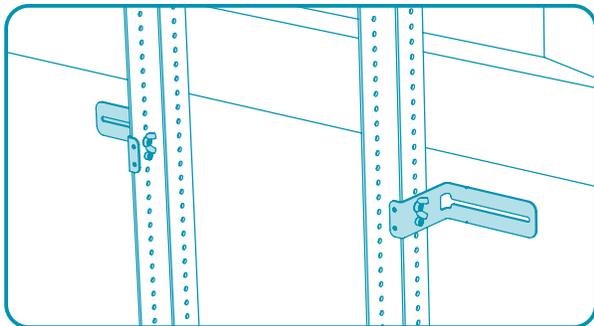
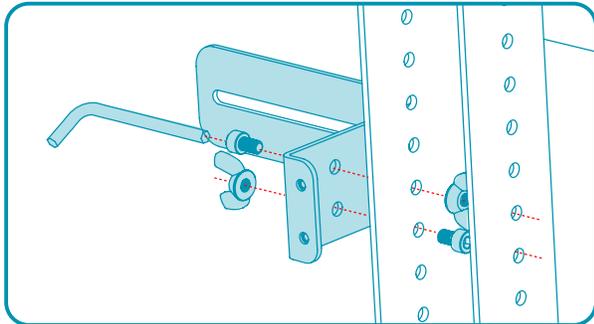
Option C

When the distance between your soundbar's mounting points are spaced 400 to 585mm (15.75 to 23 inches) apart.

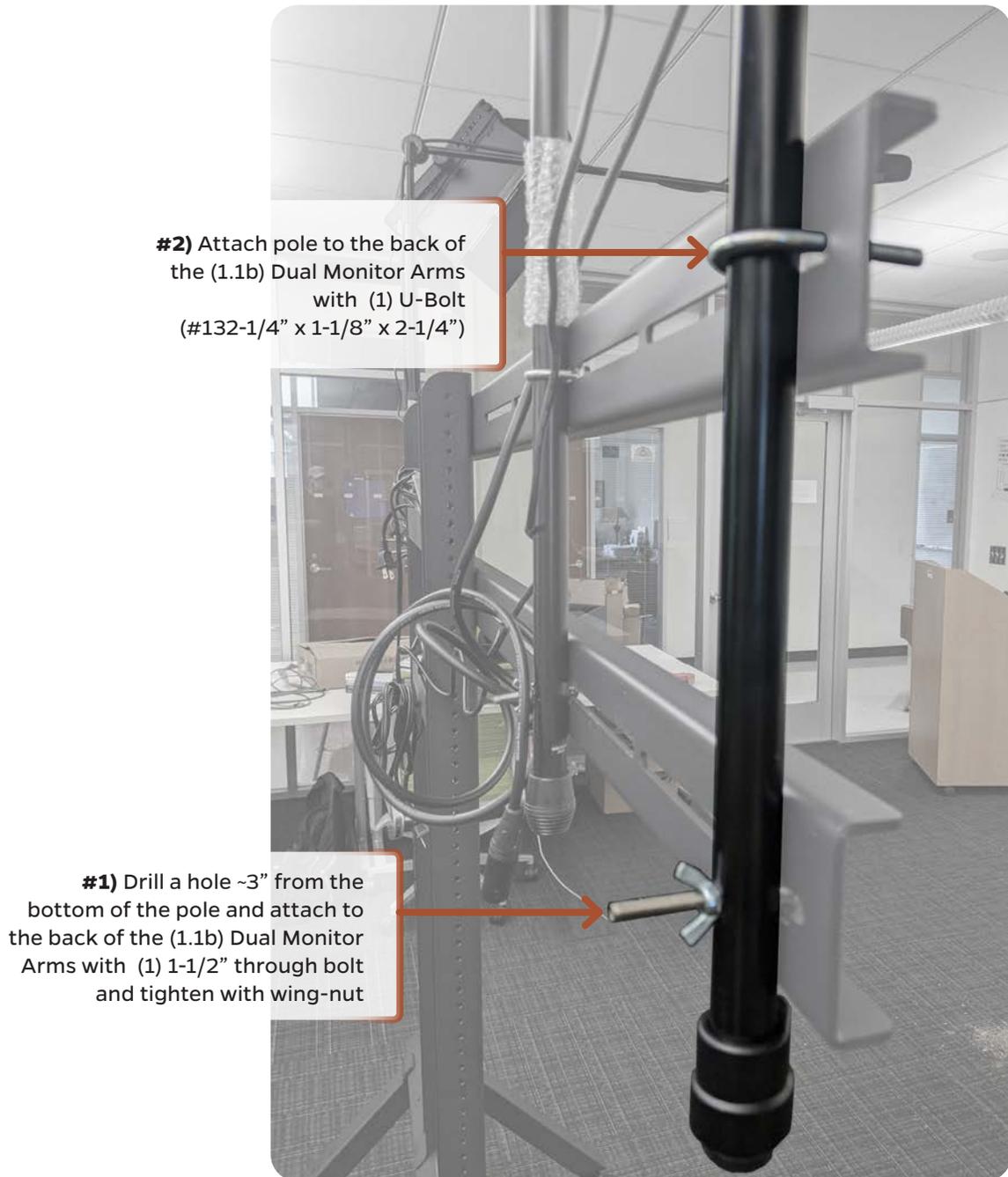


Option D

When the distance between your soundbar's mounting points are spaced 585 to 726mm (23 to 28.5 inches) apart.



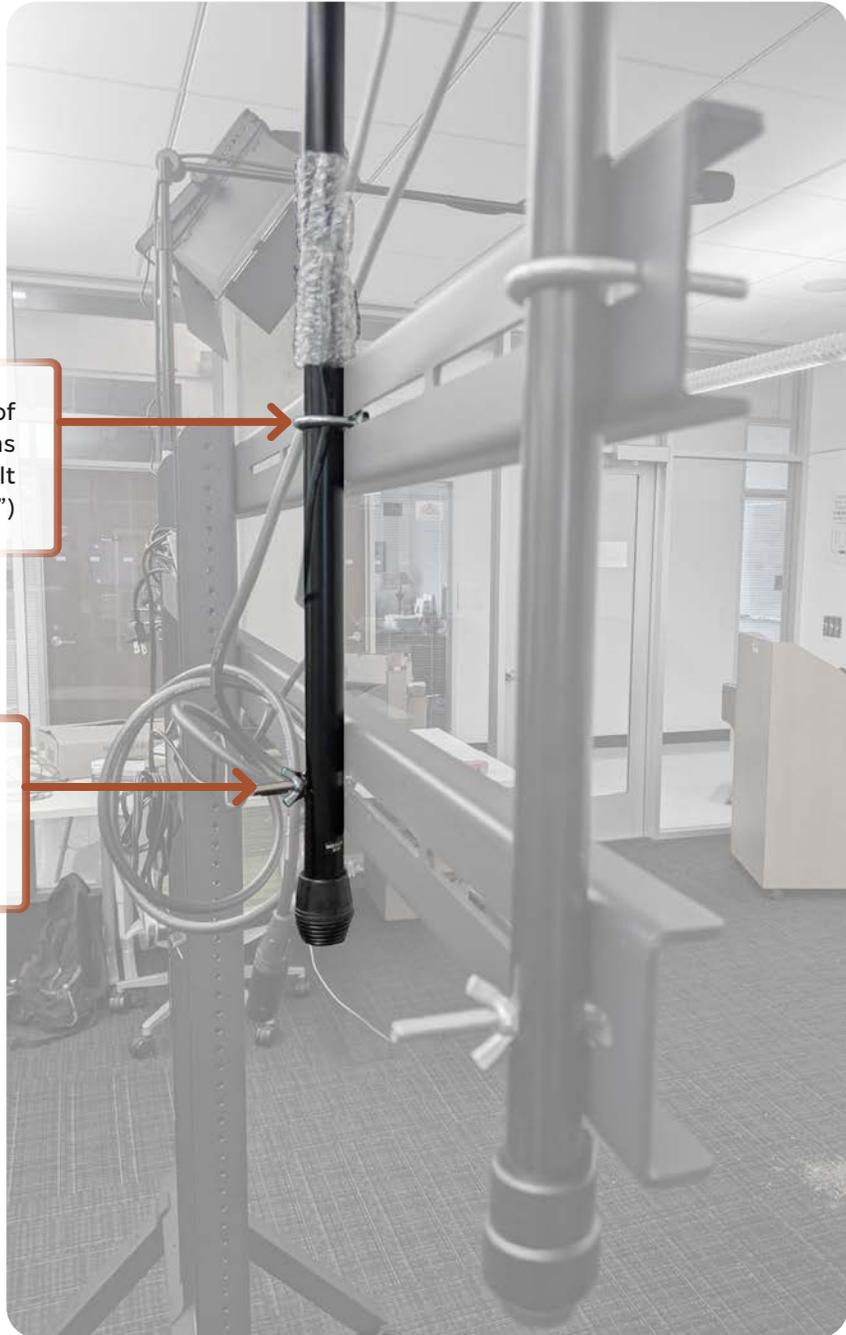
Step #7 - Attach (1.7) LED Light Kit - Poles to (1.1a) AV Cart



Step #8 - Attach (1.5c) Boom Poles to (1.1a) AV Cart

#2) Attach pole to the back of the (1.1b) Dual Monitor Arms with (1) U-Bolt (#132-1/4" x 1-1/8" x 2-1/4")

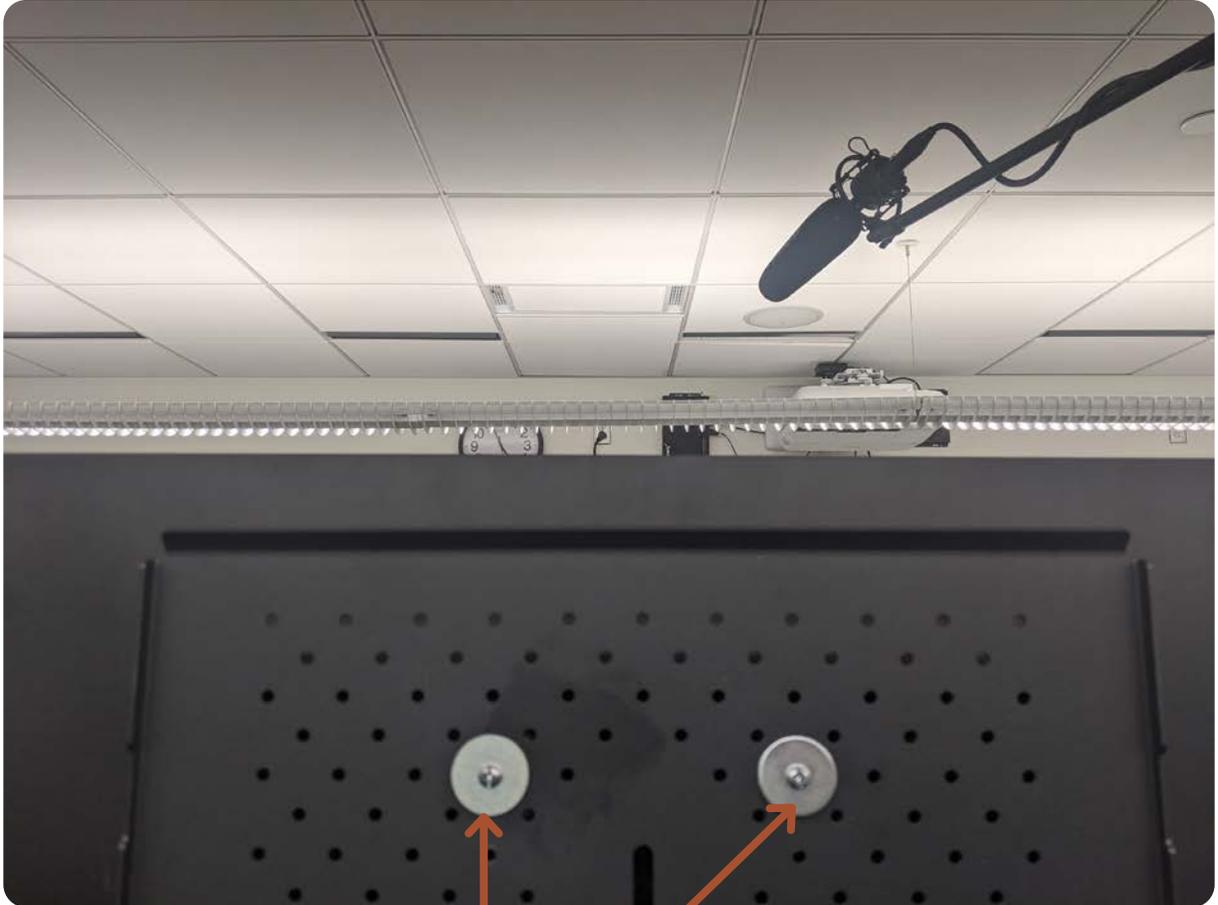
#1) Drill a hole ~3" from the bottom of the pole and attach to the back of the (1.1b) Dual Monitor Arms with (1) 1-1/2" through bolt and tighten with wing-nut



Step #9 - Attach (1.5a+b) Microphones to (1.5c) Boom Poles

Step #10 - Attach (1.7) LED Lights to (1.7) LED Light - Poles

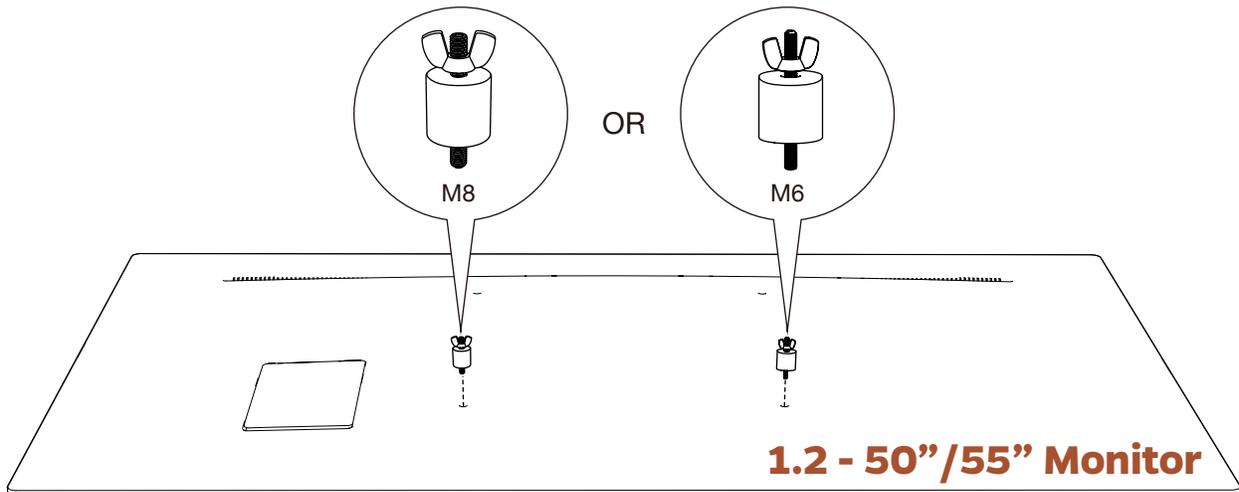
Step #11 - Mount (1.3) 24" Monitor to (1.1e) Big Compartment



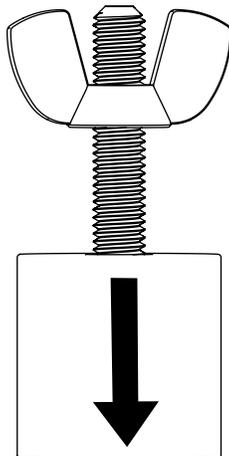
Mount the Monitor directly to the back of (1.1d) Multi-Shelf that is mounted to the top of (1.1e) Big Compartment using two (2) #8-32 x 1 3/4" bolts into VESA mounting holes in the back of the monitor

Step #12 - Mount (1.2) 50"/55" Monitors to (1.1b) Dual Monitor Arms

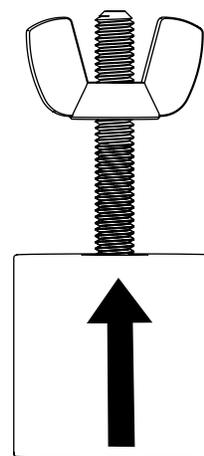
1 Select correct display-mounting screws



M6 Display Mounting Hardware

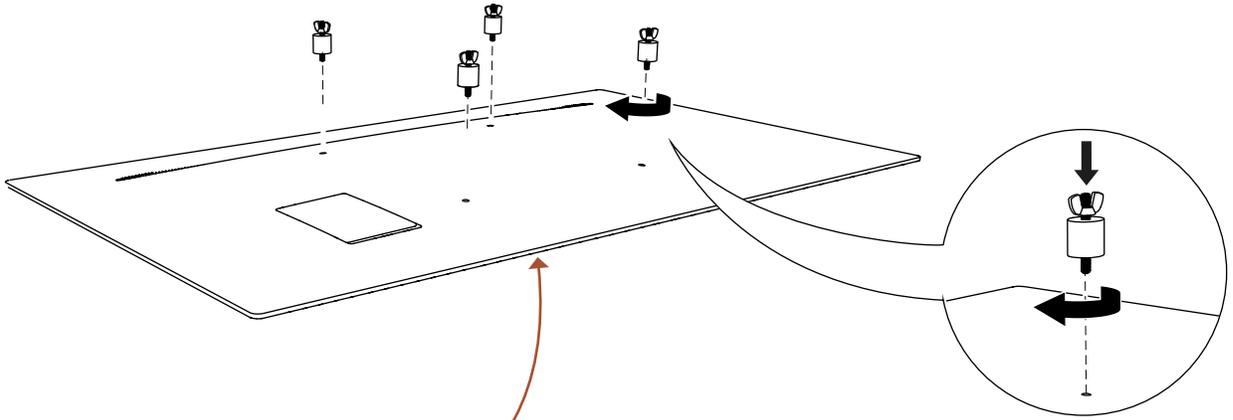


1. Transfer rubber spacers from the M8 set screws.

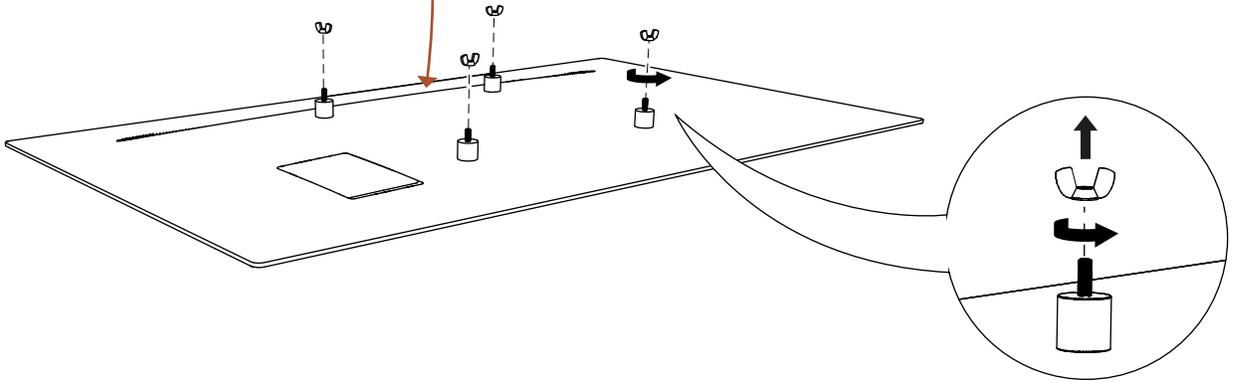


2. Slide rubber spacers on to the M6 set screws.

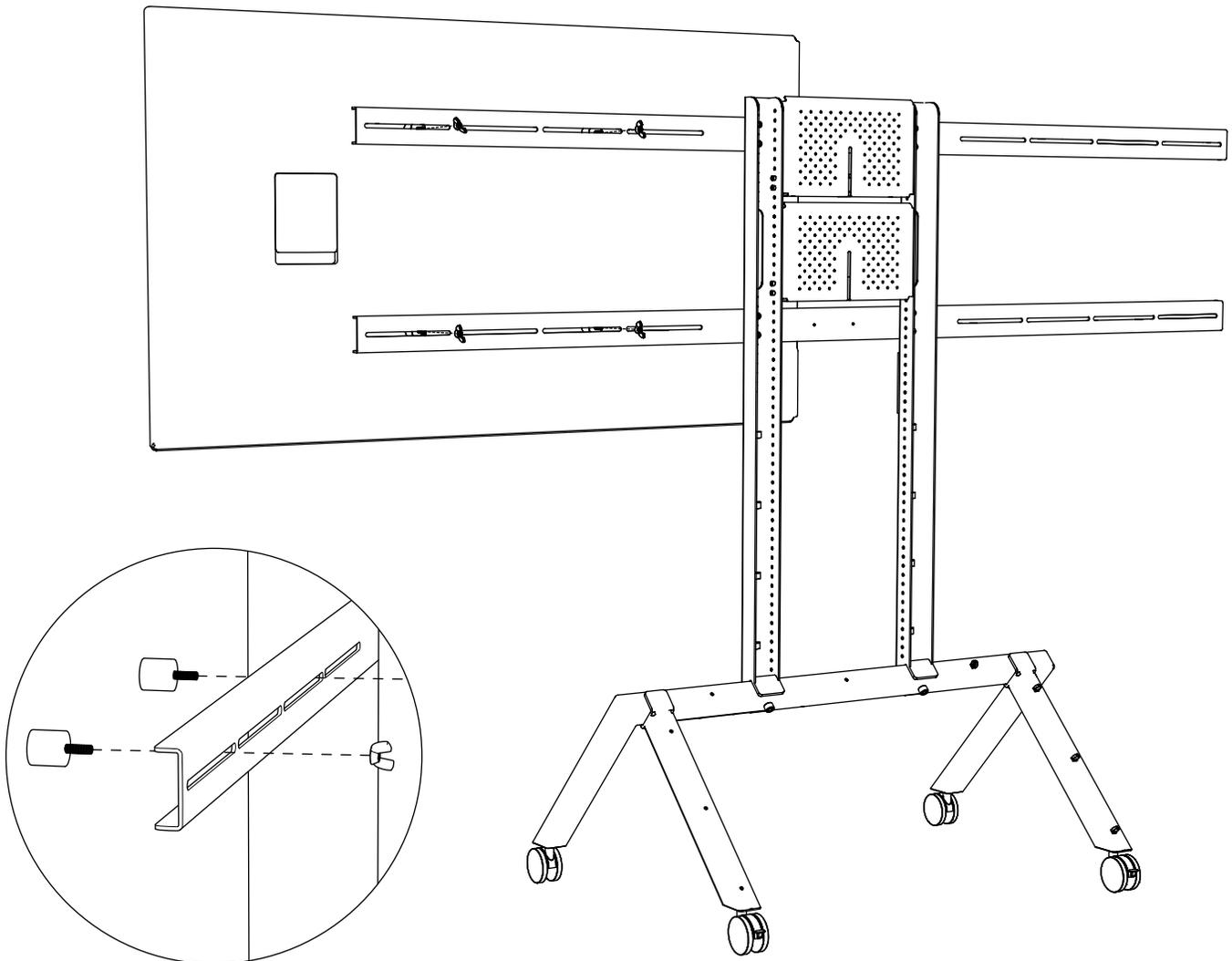
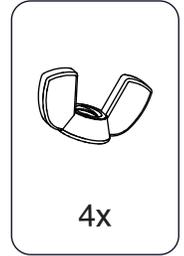
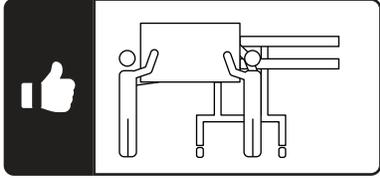
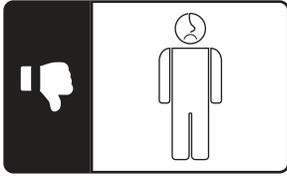
2 Install display mounting hardware



1.2 - 50"/55" Monitor

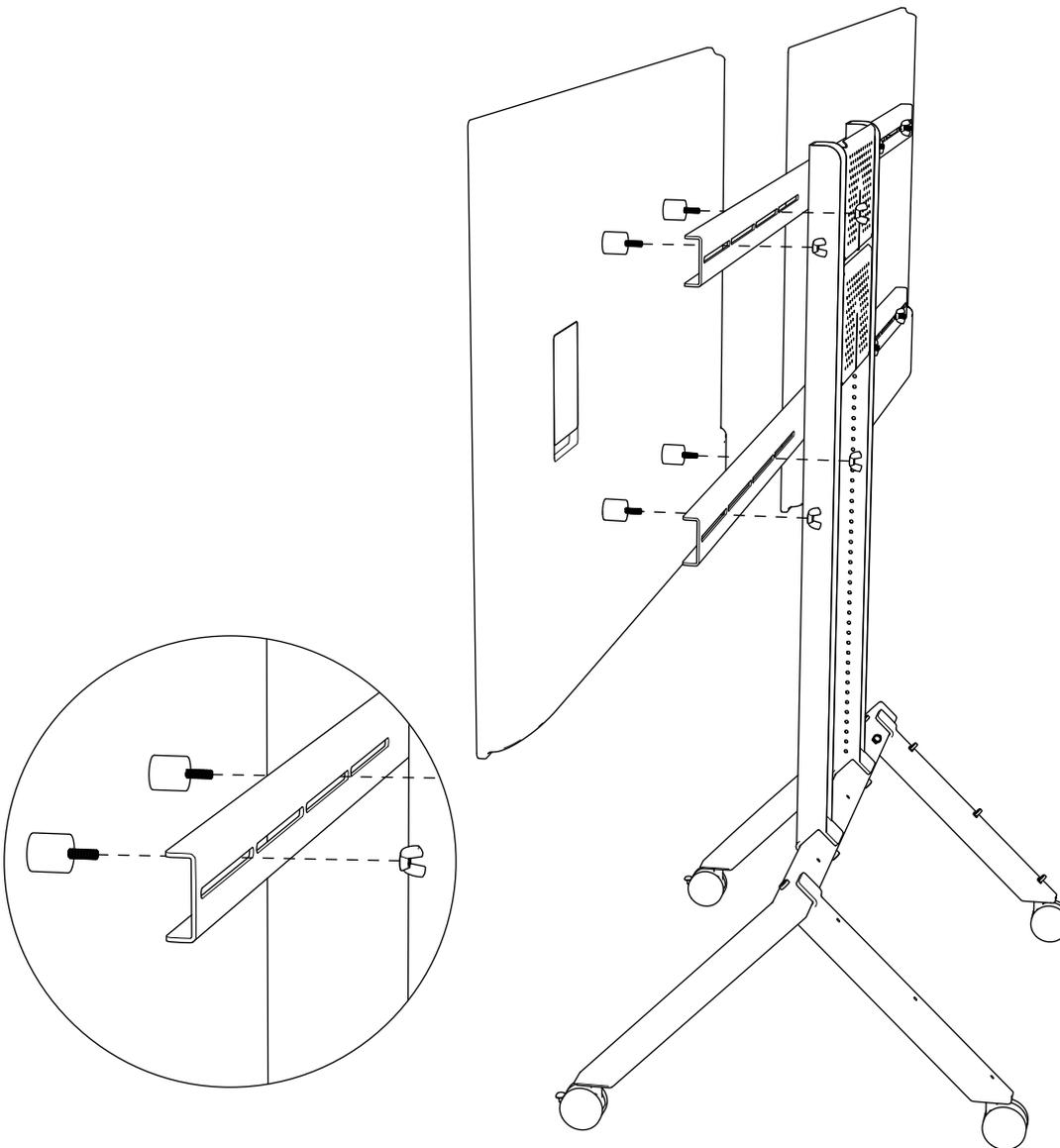
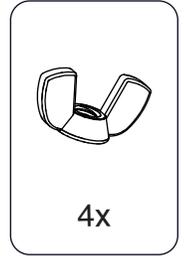
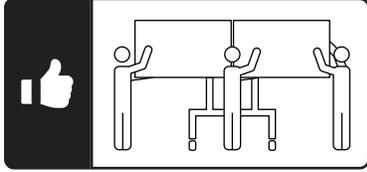
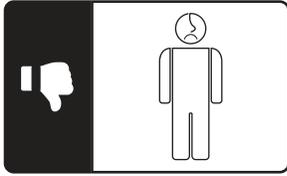


3 Mount first display to Dual Display bars



 **Important Safety Tip:** Support first display until both displays are fully installed to avoid tipping and damage to equipment

4 Mount second display to Dual Display bars

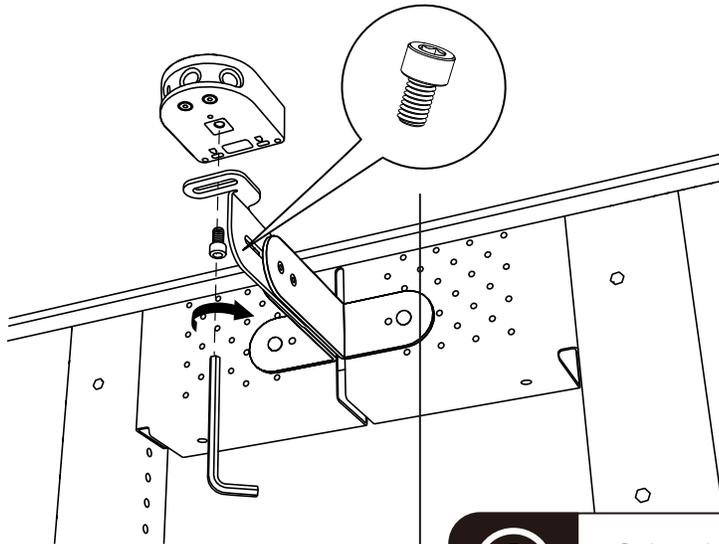


Important Safety Tip: Support first display until both displays are fully installed to avoid tipping and damage to equipment



Adjust TV mounting wingnuts to bring displays even with each other

Step #13 - Attach (1.4) PTZ Camera to (1.1c) Camera Mount



Select the Camera Mounting Screw that works best with your camera.

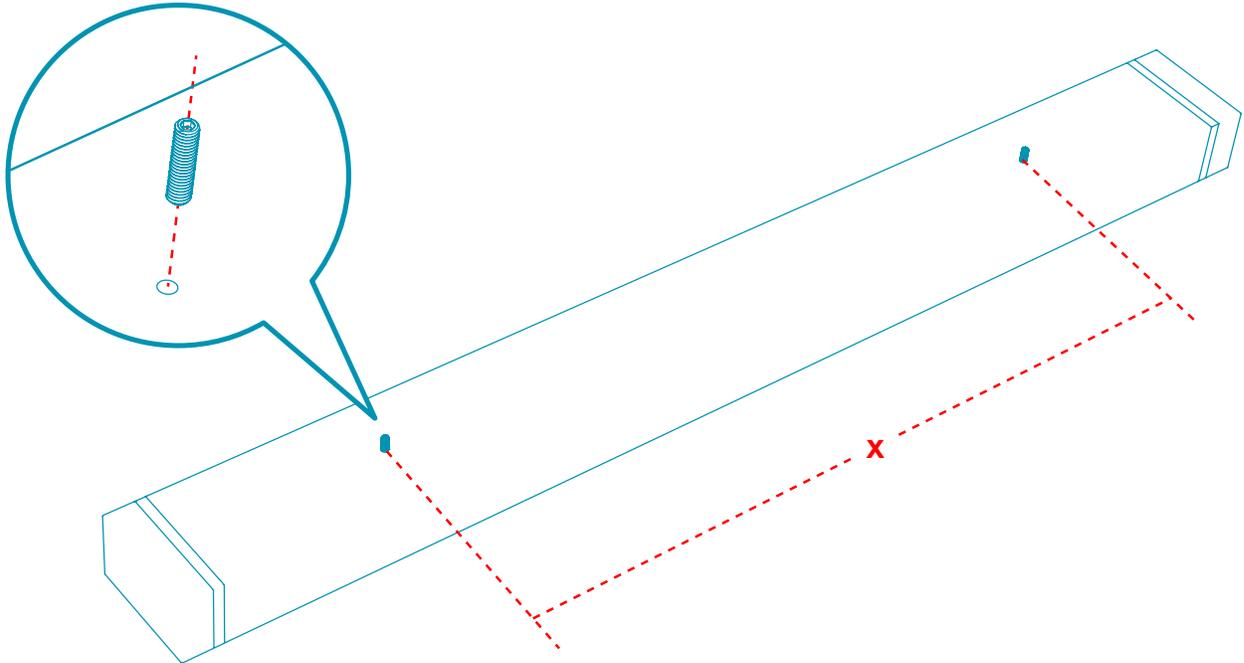
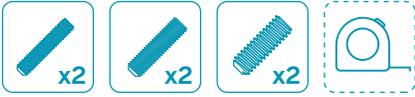
Camera should be located just below (1.3) 24" Monitor



Step #14 - Attach (1.6a) Speakers (1.1f) Sound Bar Mount

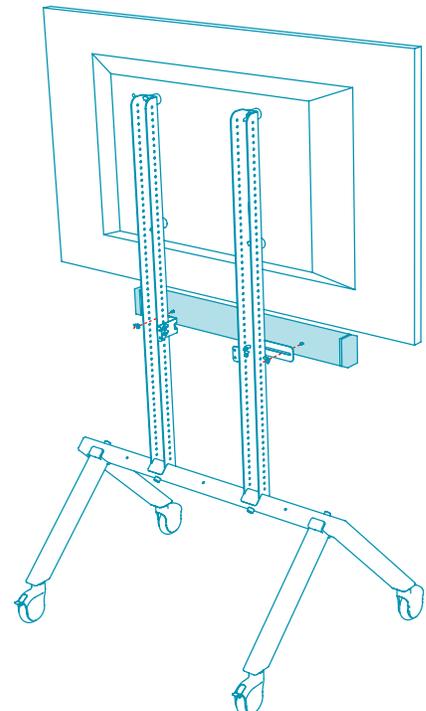
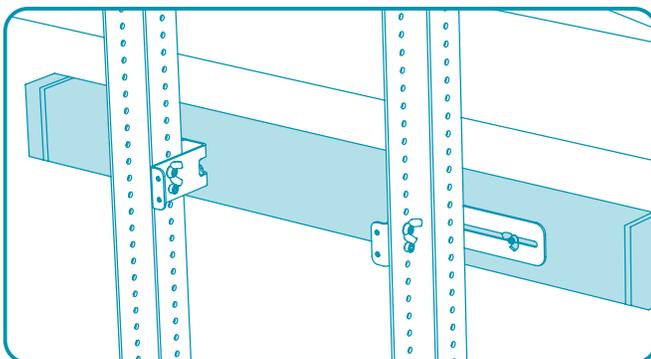
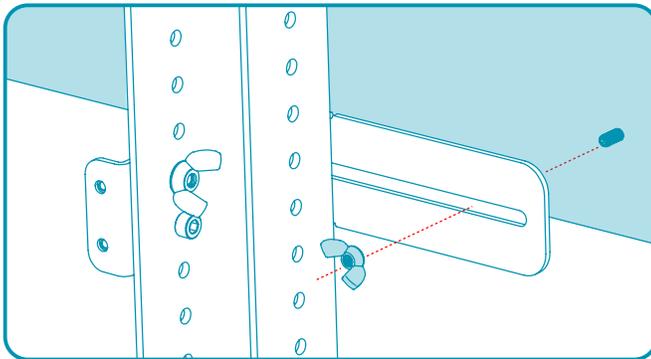
STEP 1

Fasten the appropriate size of set screws to the soundbar and measure the distance between the mounting points.



STEP 4

Fasten the wingnuts and install the soundbar.



Step #15 - Attach (1.8d) Computer Mount to inside of (1.1e) Big Compartment

Attach Computer Mount to (1.1e) Big Compartment using #8-32 Bolts w/ Nuts

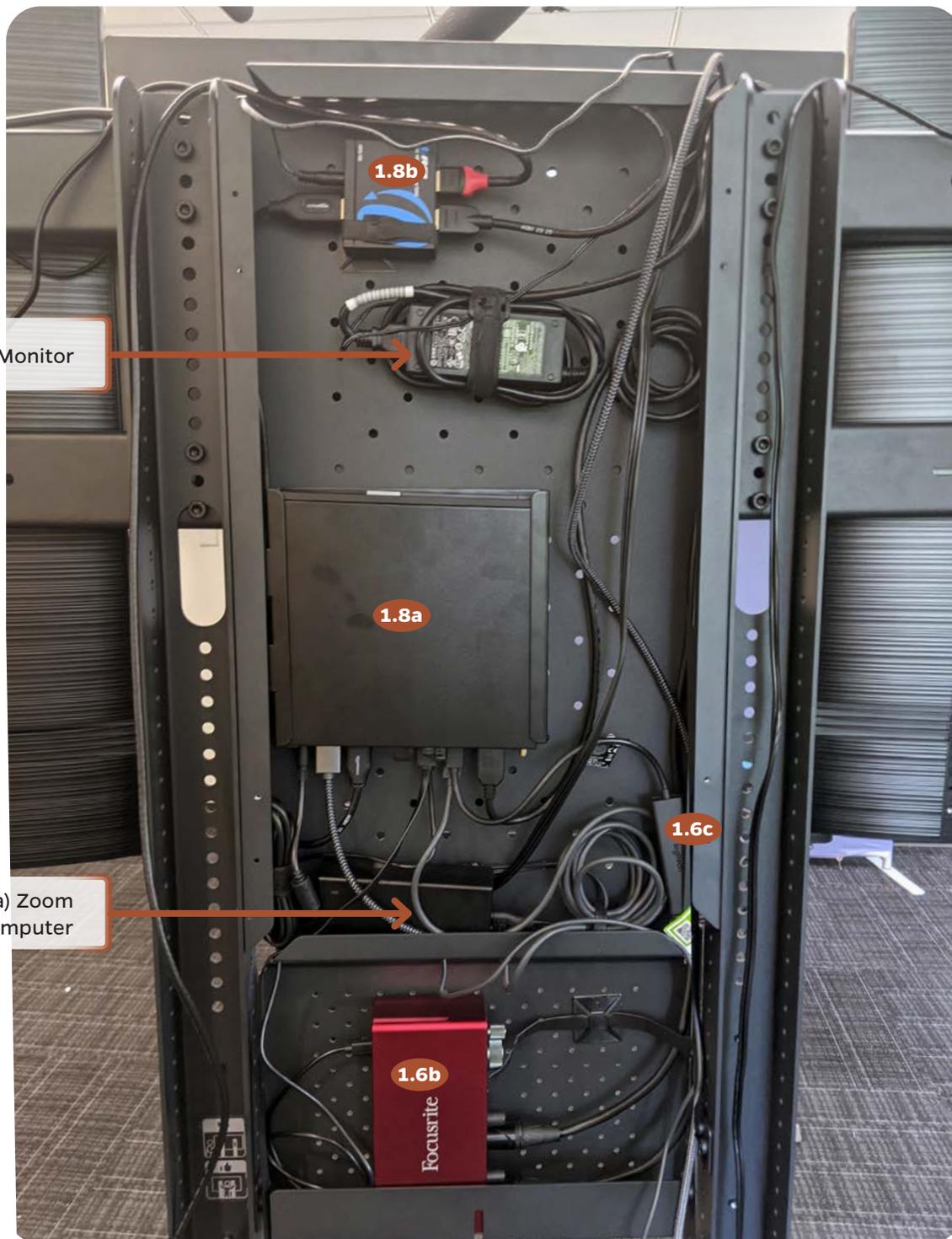


Attach (1.8a) Zoom Rooms Computer to the Computer Mount



Step #16 - Install remaining components into (1.1e) Big Compartment

Step #17 - Feed all cables through top corners of (1.1e) Big Compartment

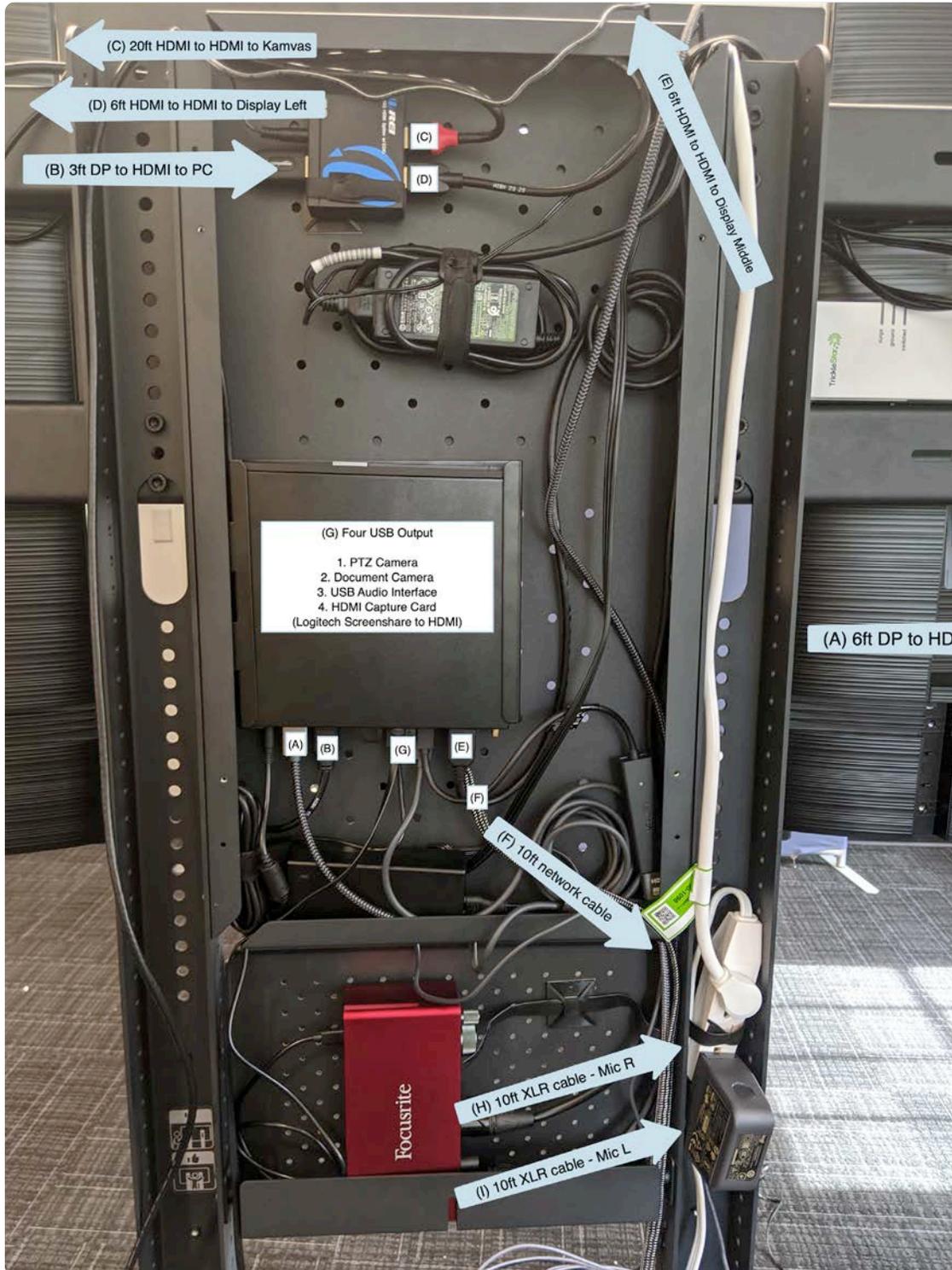


Power brick for (1.3) 24" Monitor

Power brick for (1.8a) Zoom Rooms Computer

Step #18 - Connect all cables to the components

****Note: Refer to Wiring Diagram on pg 15**

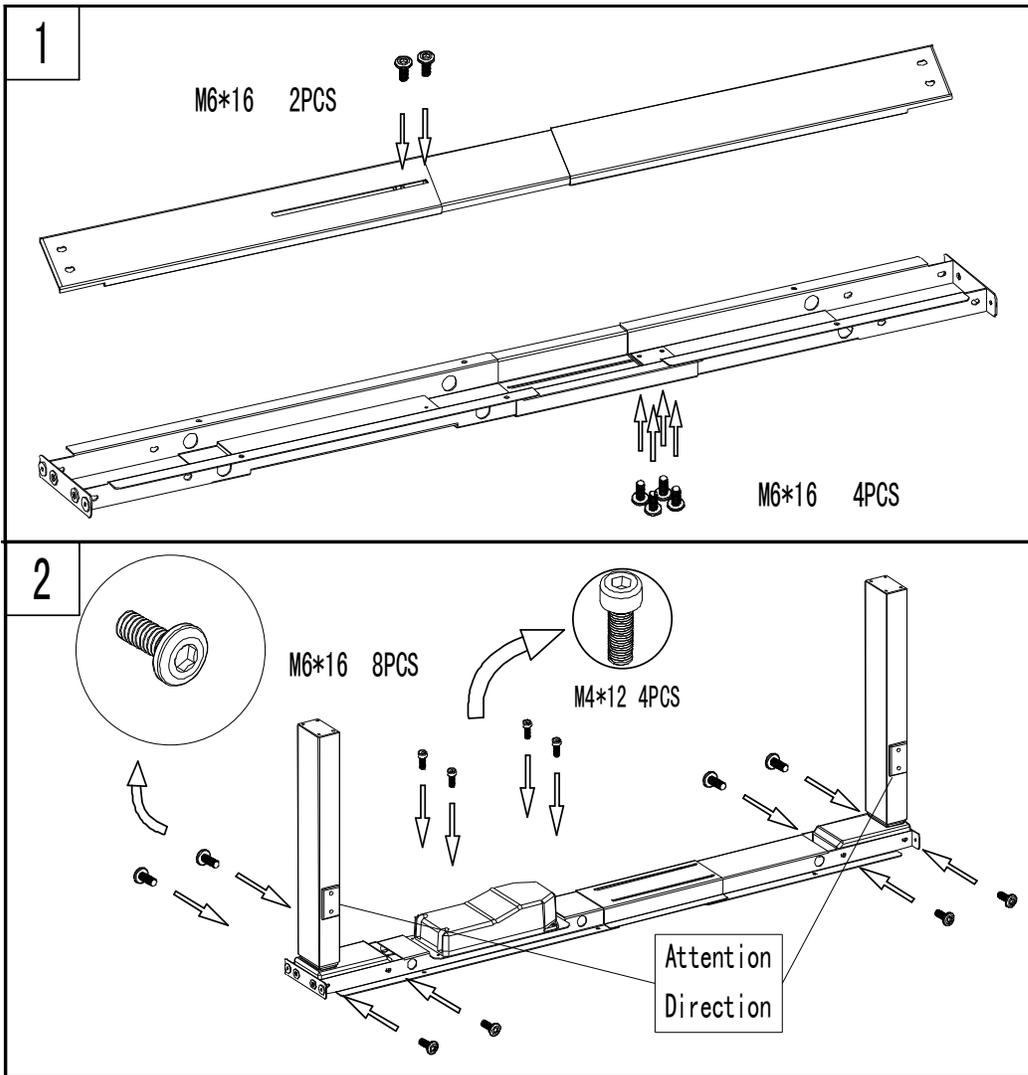
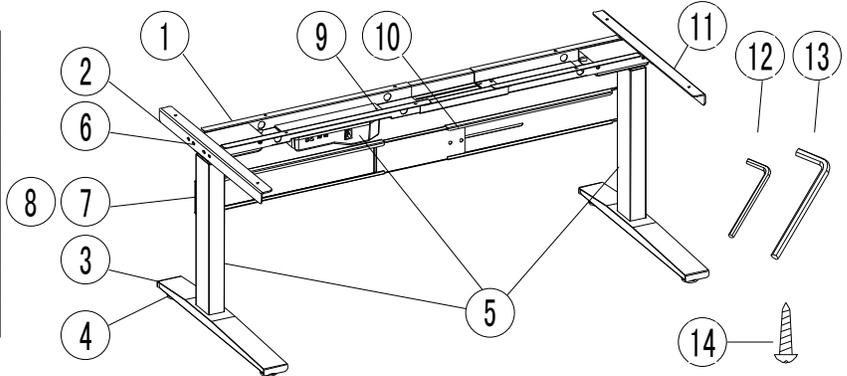


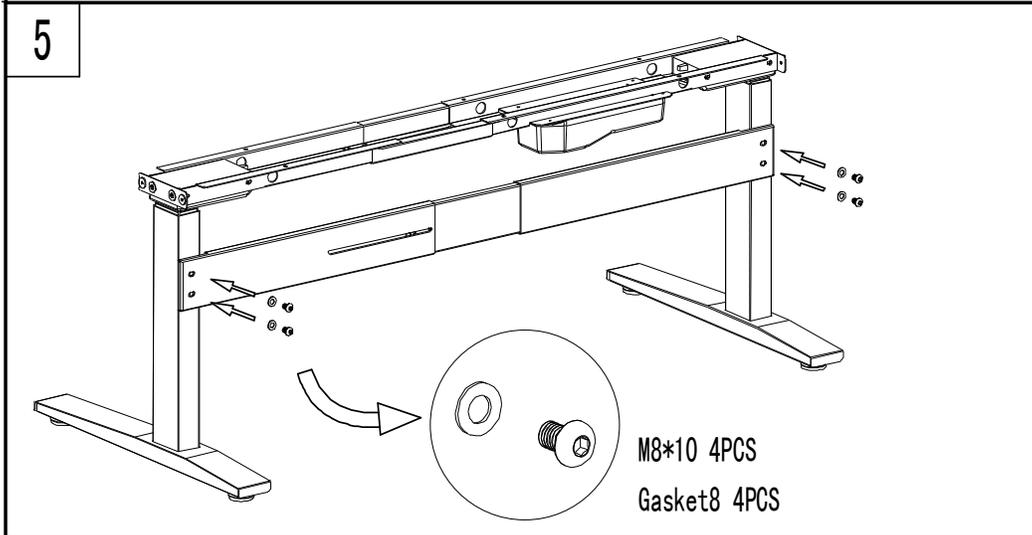
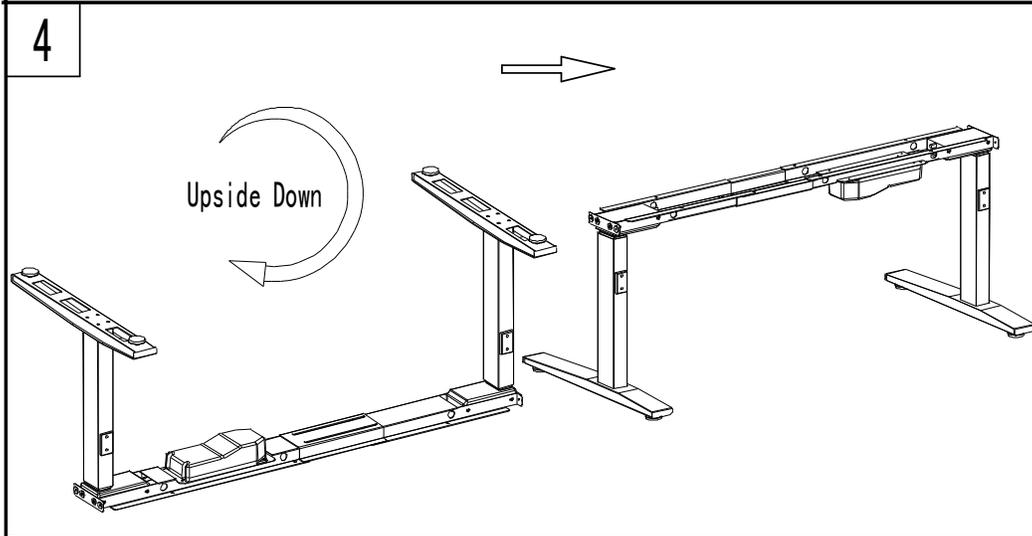
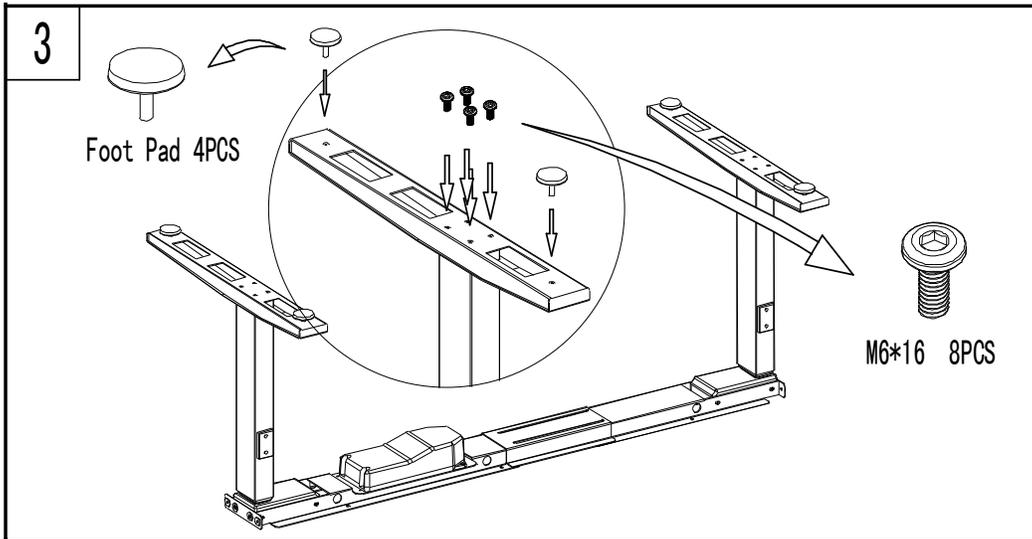
Step #1 - Assemble (2.1) Standing Desk

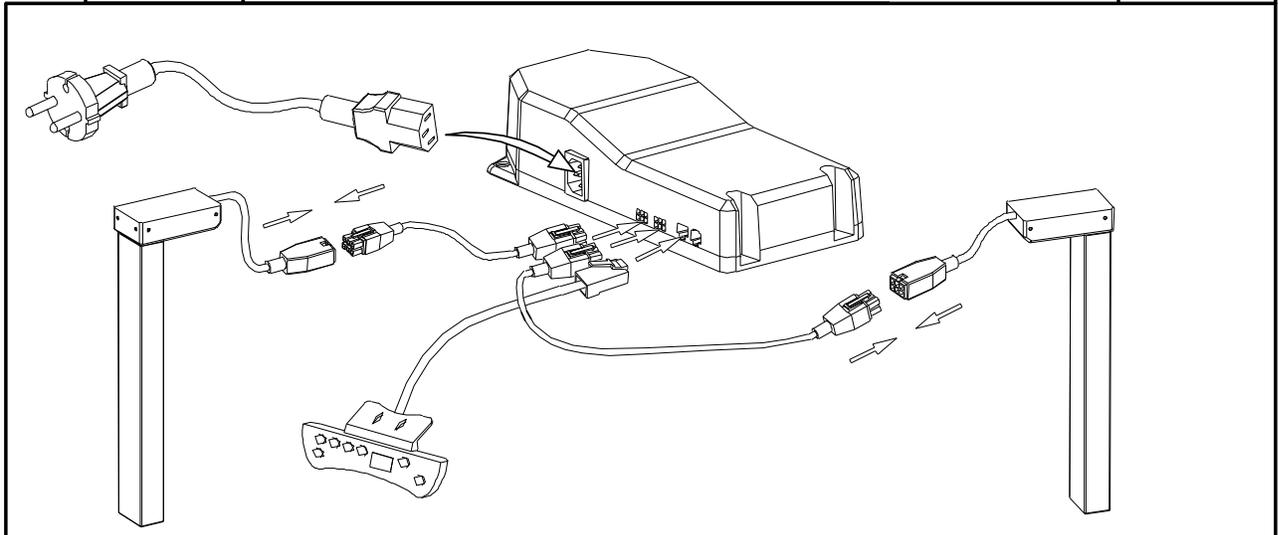
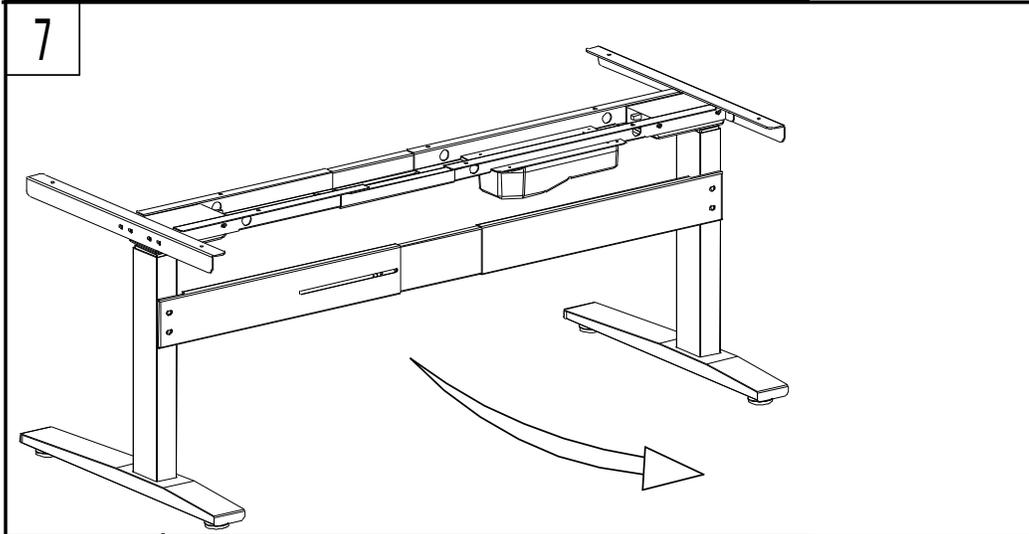
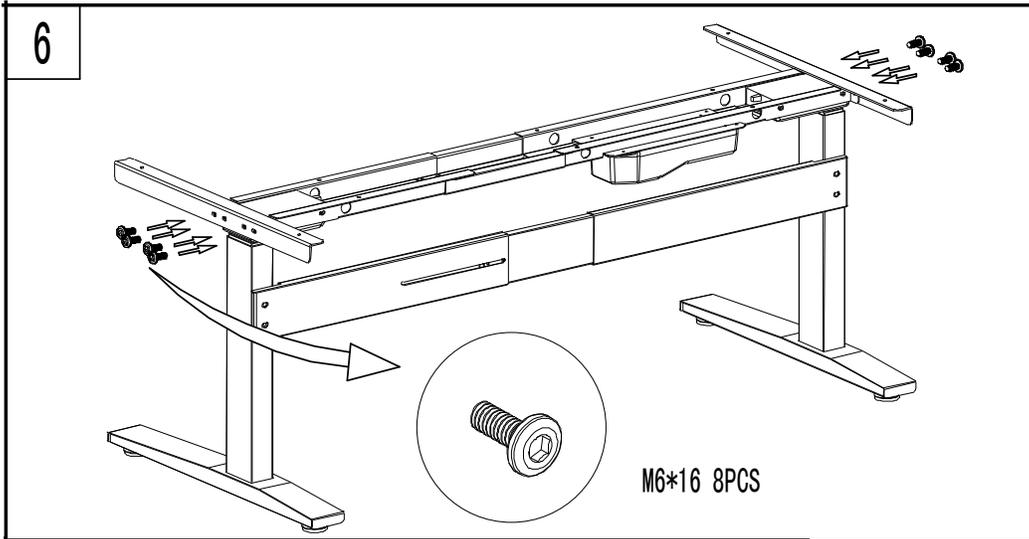
RISE UP Assembly Instructions

Parts and Tools list

NO.	Component Name	Qty	NO.	Component Name	Qty
1	Support Beam	1	9	M4*12	4
2	Left Bracket	1	10	Cross Bar	1
3	Foot Margin	2	11	Right Bracket	1
4	Foot Pad	4	12	3mm Hex Allen	1
5	Lifting System	1Set	13	5mm Hex Allen	1
6	M6*16	30	14	ST4.8*19	12
7	M8*10	4			
8	Gasket 8	4			







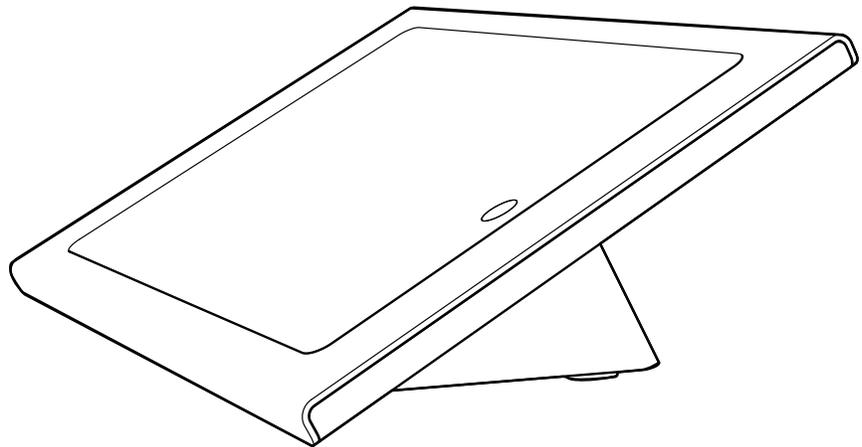
Heckler AV®



ZOOM ROOMS CONSOLE

for iPad 10.2-inch 7th Generation

Assembly & Installation



Compatible with

iPad 10.2-inch 7th Generation

2-Year Warranty

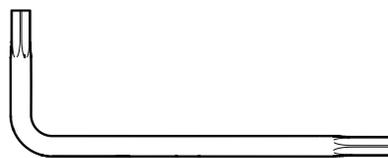
Heckler Design warrants your product to be free from defect in material and workmanship for a period of two years from the original date of purchase. Electronic components are warranted to be free from defect for a period of one year from the original date of purchase. If you discover a defect, please contact service@hecklerdesign.com. Heckler Design will repair, at our discretion, using new or refurbished components. If repair is not possible, Heckler Design will replace the item.

H601

1x



F160



Torx assembly tool



Keep your special assembly tool in a safe place. To purchase a replacement, please contact service@hecklerdesign.com.

4x



F631

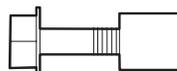


Heckler AV Cart Assembly Screws

1x



F753



Cord anchor

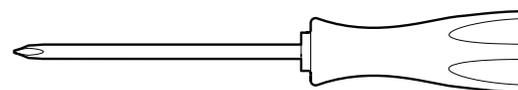
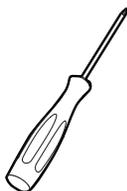
2x



F530

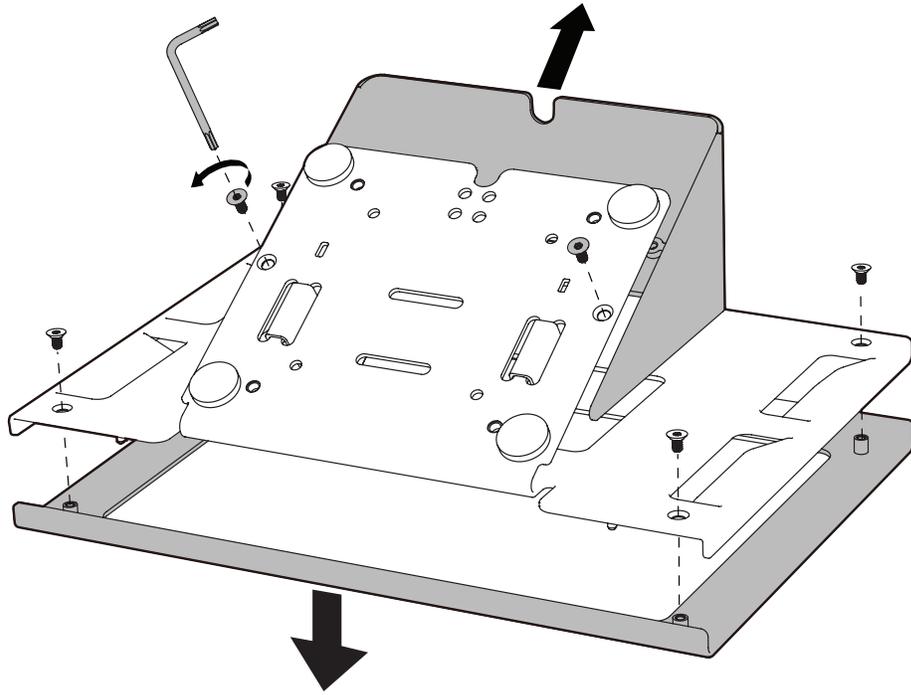
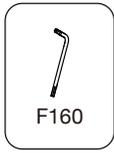


Cable Tie

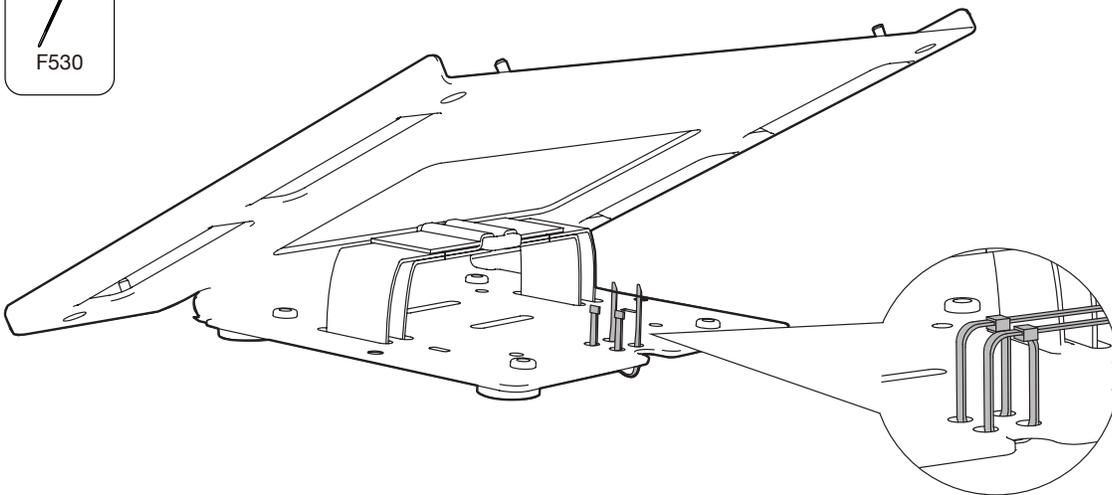


Phillips Screwdriver

1 Remove back cover and front bezel



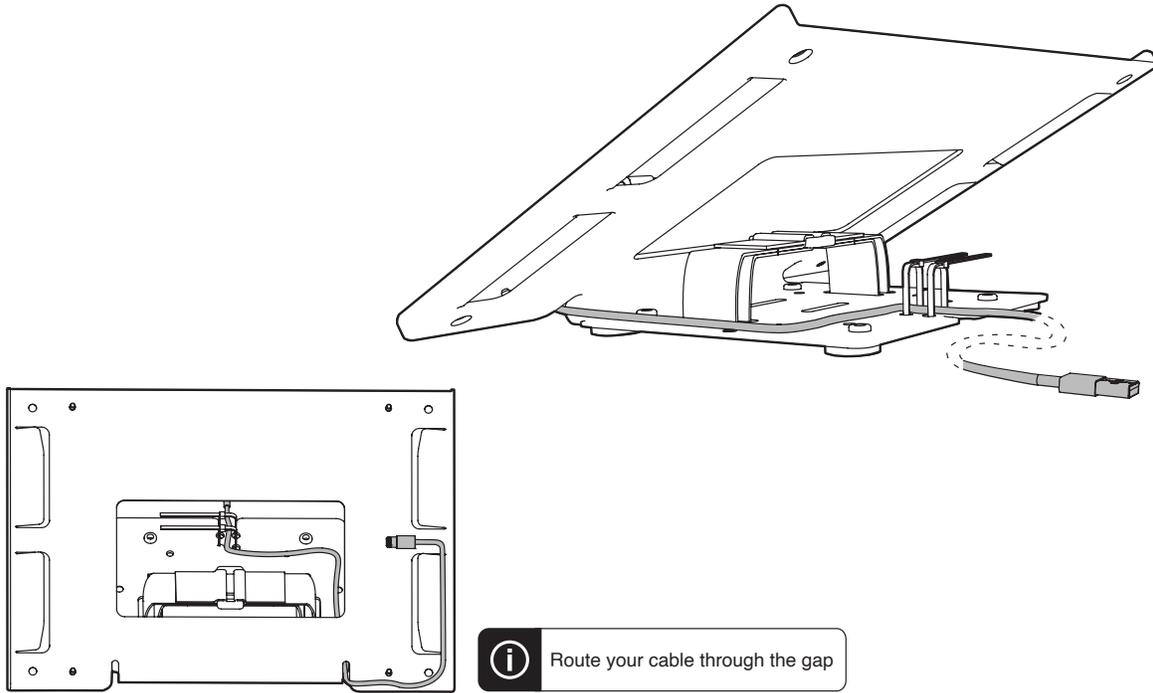
2 Route zip ties through holes



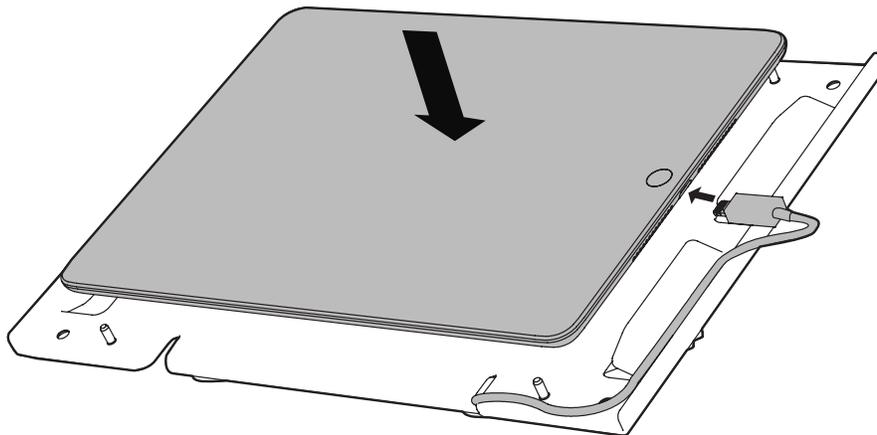
i Leave space for the cable to pass through

Step #3 - Install (2.2b) iPad

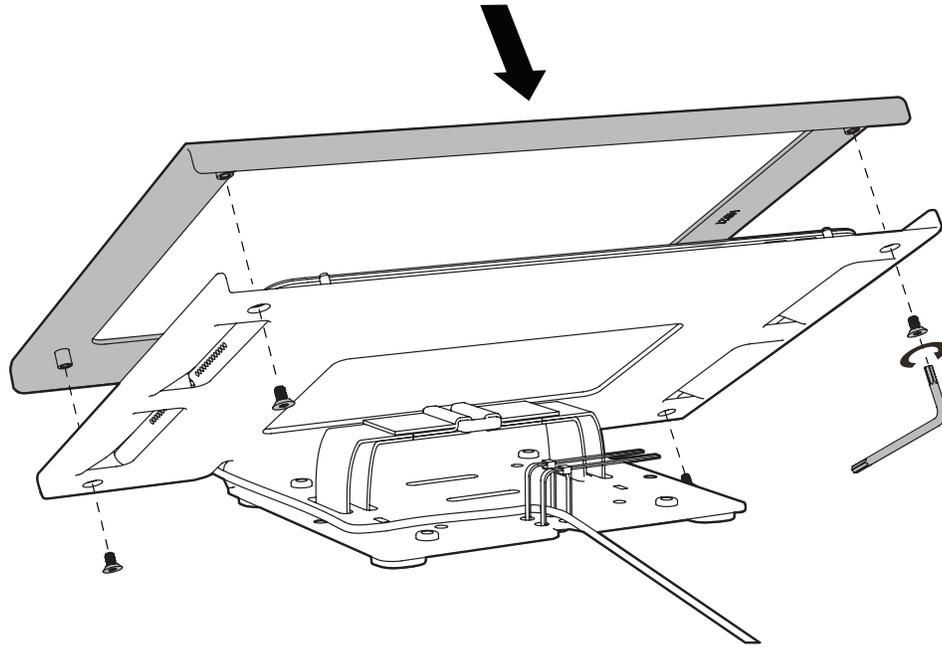
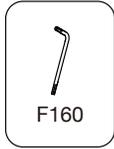
3 Route Apple Lightning cable



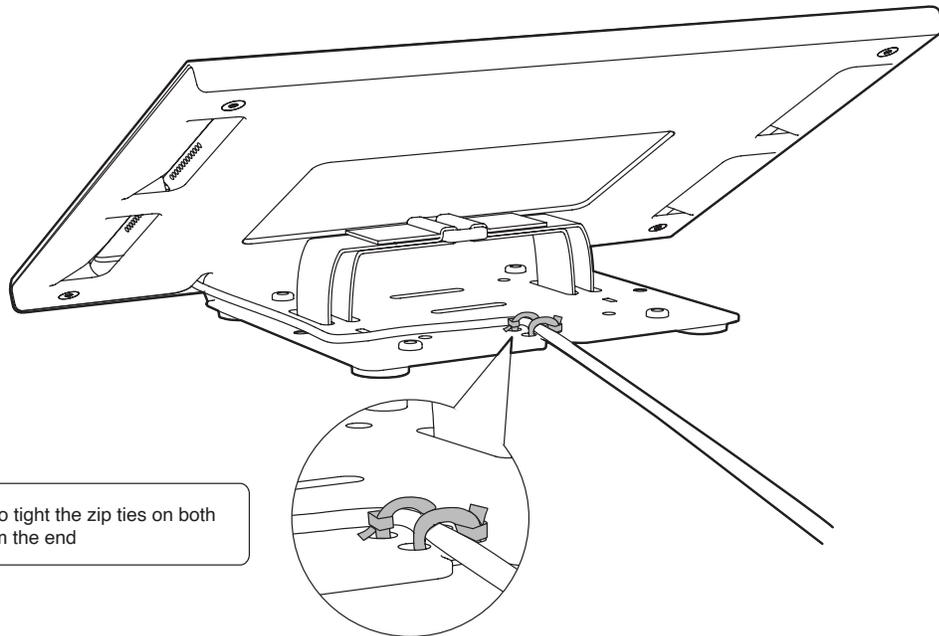
4 Install iPad and plug into power



5 Reinstall front bezel



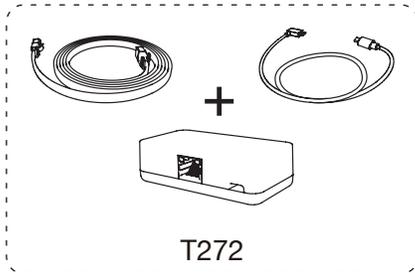
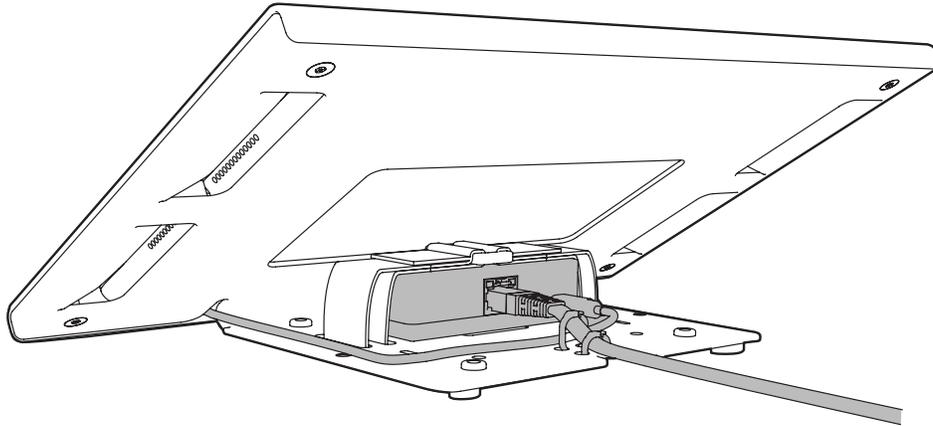
6 Tie down Lightning cable



i Make sure to tight the zip ties on both side and trim the end

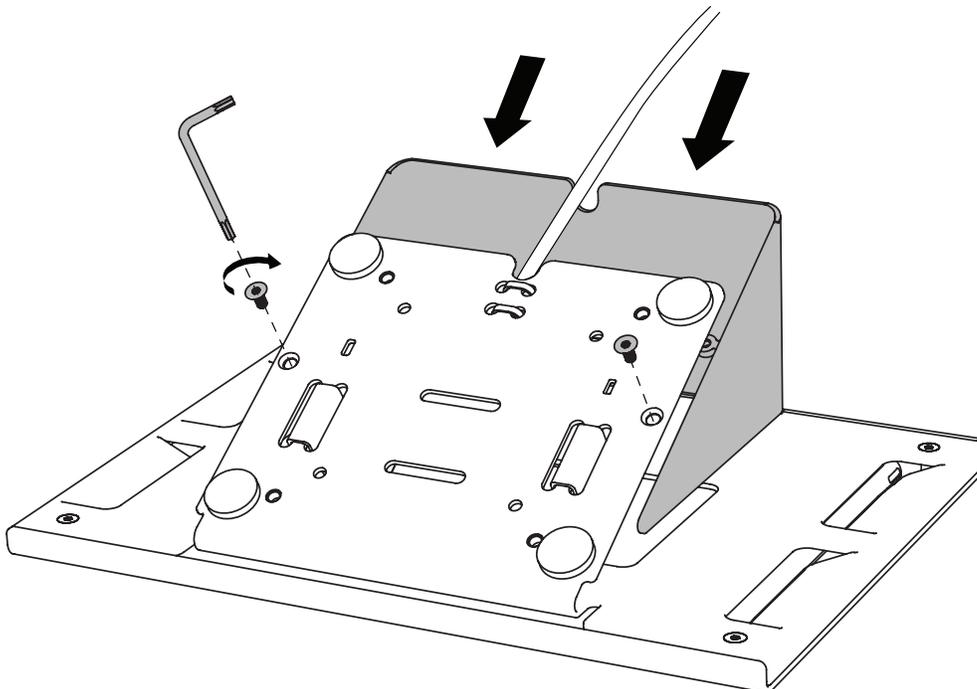
Step #4 - Install Ethernet and PoE for iPad

Install PoE upgrade kit

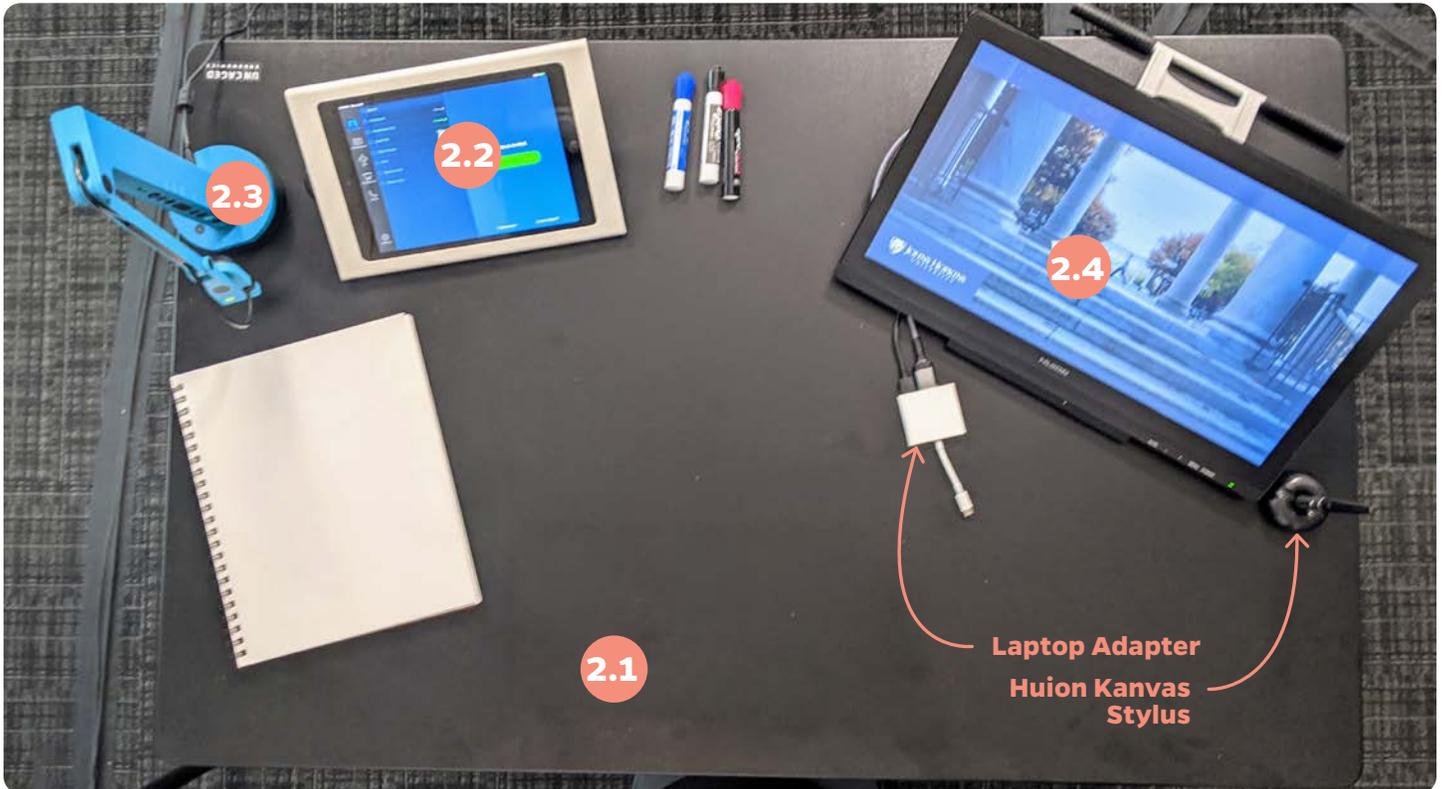


i The pre-installed velcro is for Redpark PoE box, please visit hecklerdesign.com to purchase the component. For PoE upgrade kit instruction guide, please visit: heckler.design/T272

7 Reinstall back cover



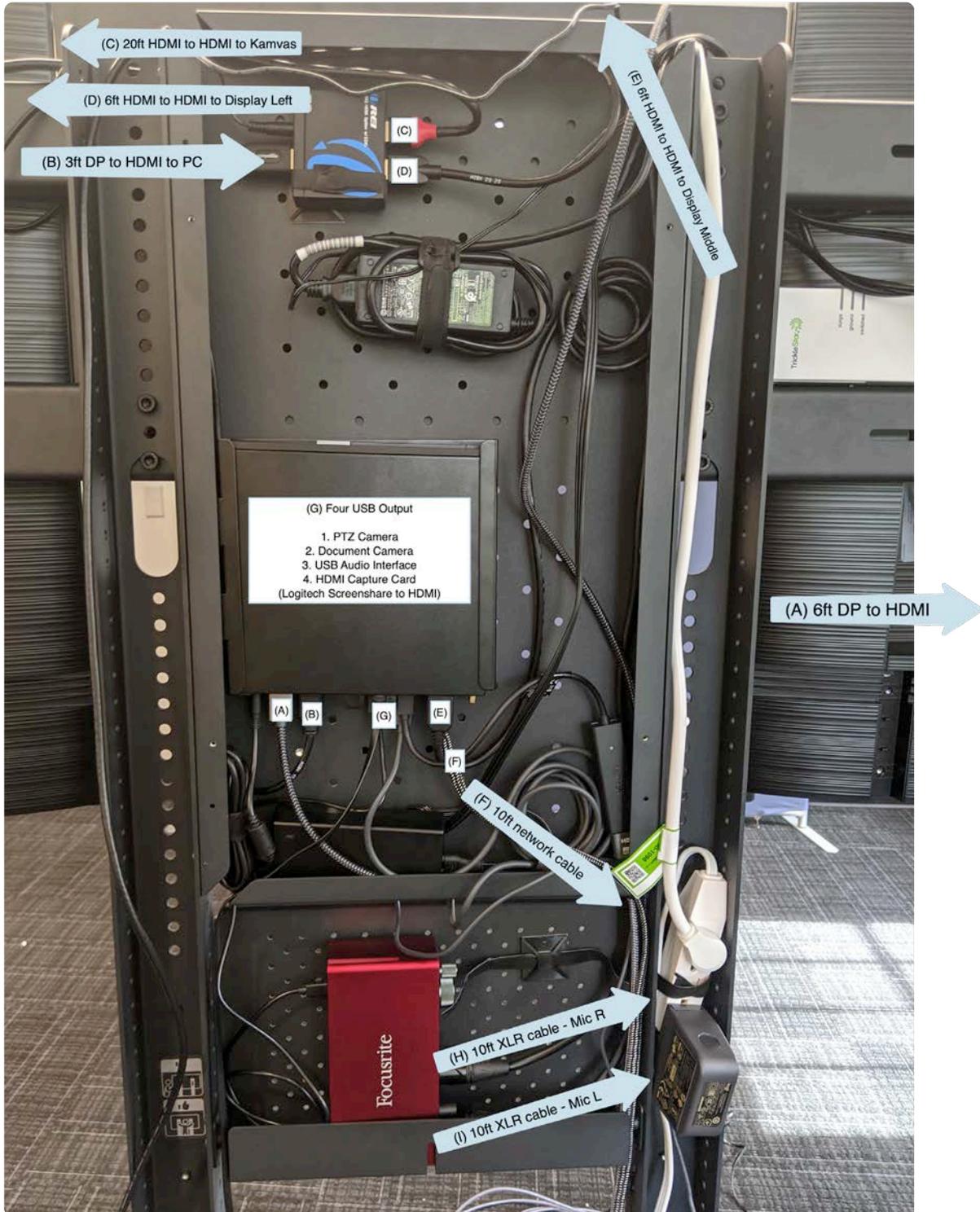
Step #5 - Arrange all remaining components on (2.1) Standing Desk



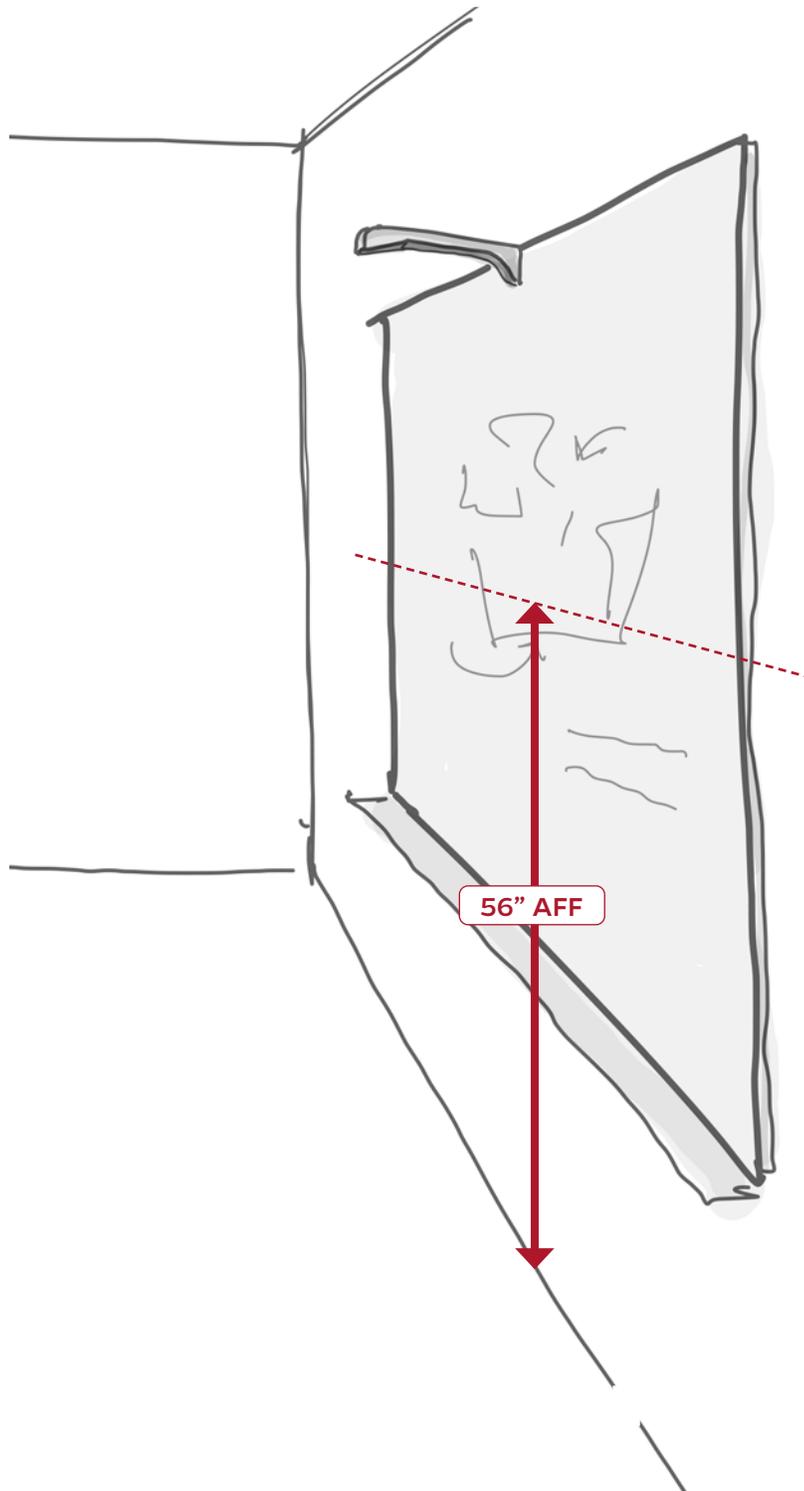
- 2.1 Adjustable Standing Desk
- 2.2 Zoom Rooms Controller (iPad w/ Case)
- 2.3 Document Camera (IPEVO)
- 2.4 Touch Display (Huion Kanvas)

Step #6 - Connect all cables to the components

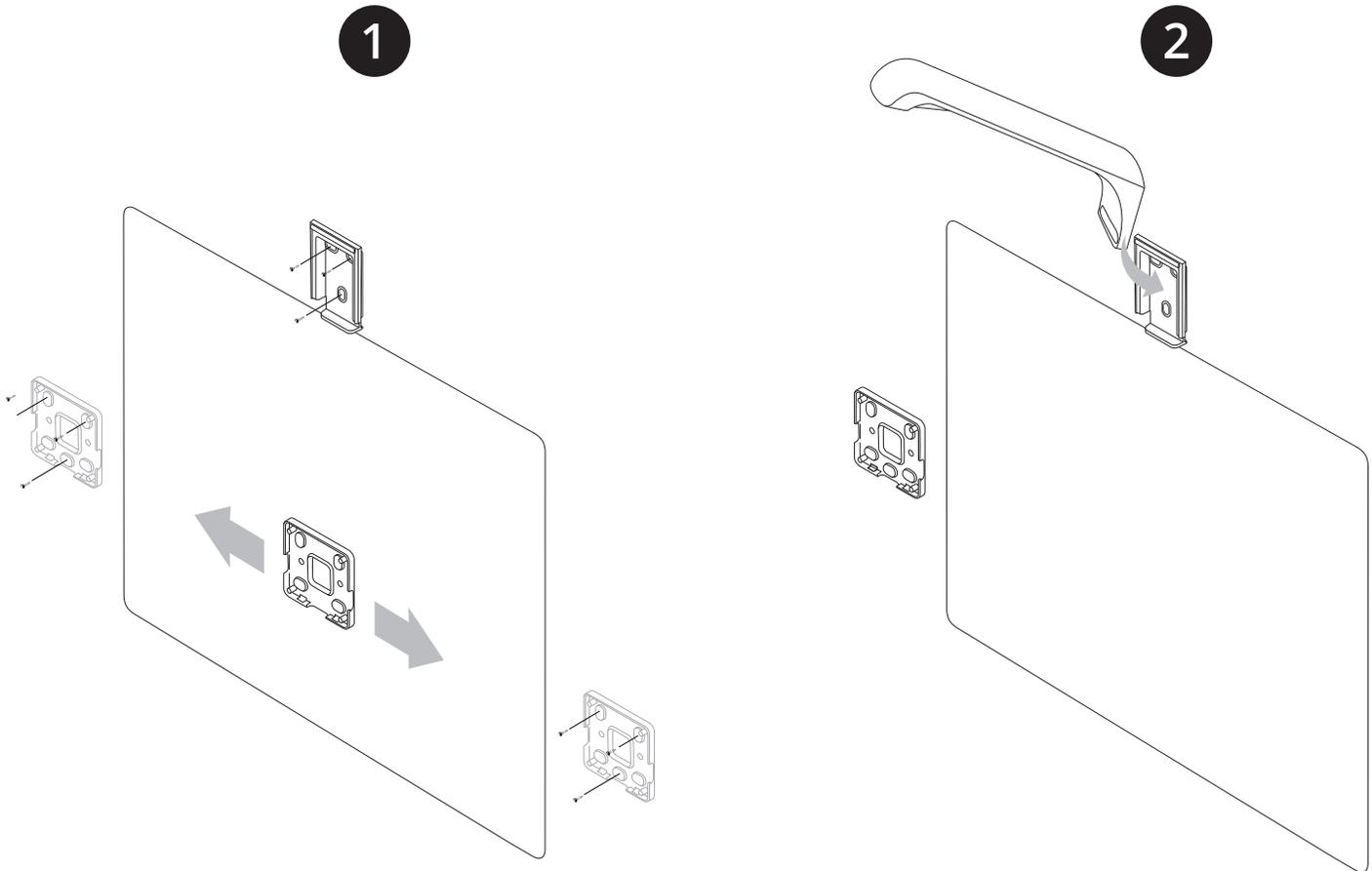
****Note: Refer to Wiring Diagram on pg 15**



Step #1 - Mount (3.1) Whiteboard to the wall



Step #2 - Mount (3.2) Whiteboard Camera above (3.1) Whiteboard

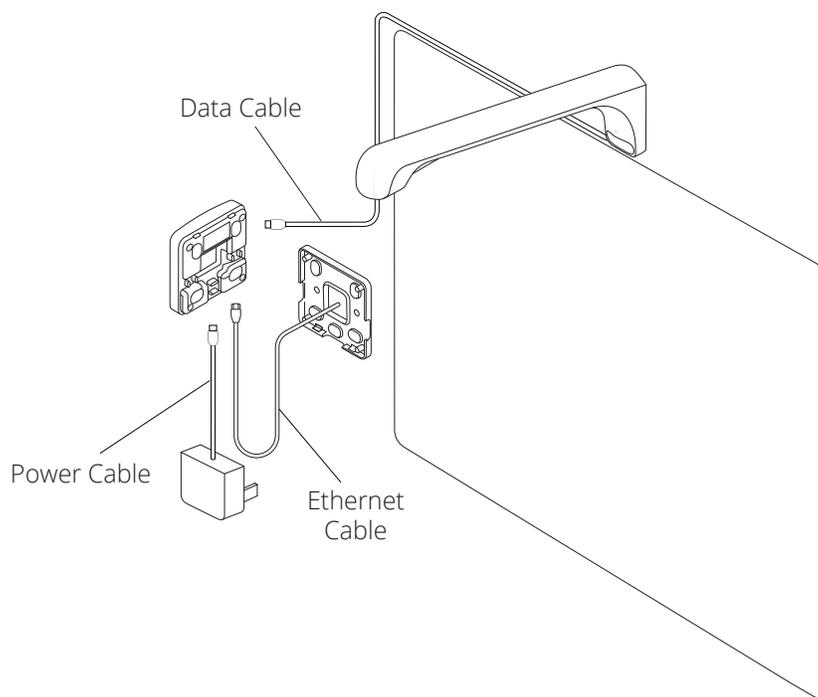


Install the rectangular Kaptivo mounting plate centered above board. Then install the square control pad mounting plate on your preferred side of the board. Use supplied screws.
Maximum board size: 6 ft x 4 ft (1.8m x 1.2m).

Slide Kaptivo unit onto mounting plate.

****Note: Refer to Wiring Diagram on pg 15**

3



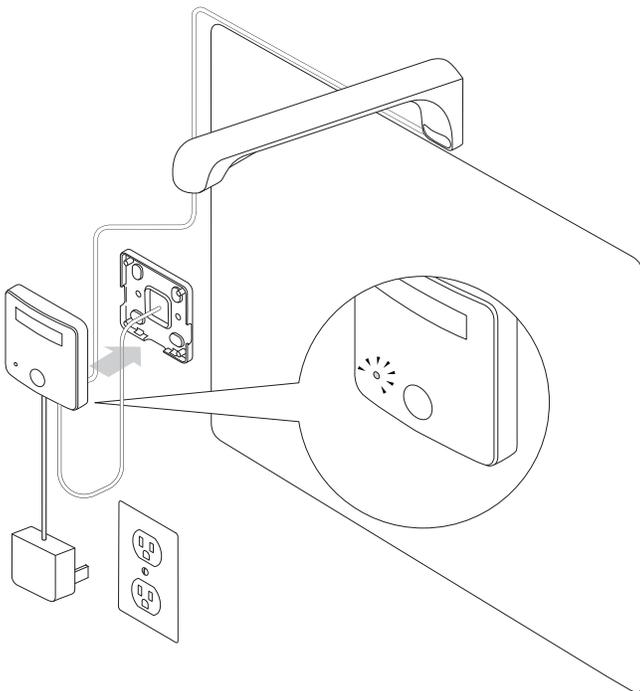
Wi-Fi Connection: Connect Kaptivo data cable and USB power cable to their respective sockets inside the control pad.

Ethernet Connection: Connect Kaptivo data cable, USB power cable, and Ethernet cable to their respective sockets inside the control pad. If Ethernet includes power, the USB power cable is not needed

Step #3 - Connect all cables according to the Wiring Diagram

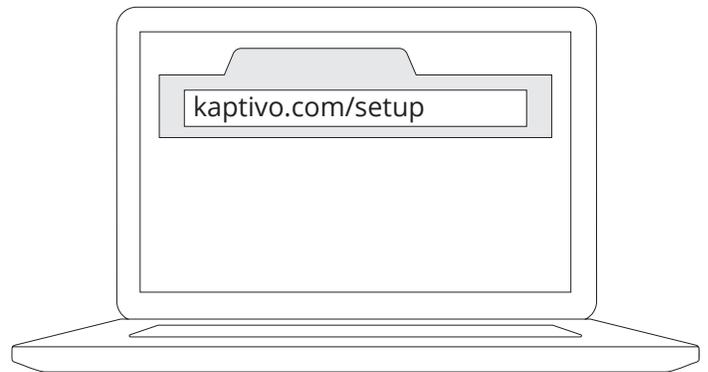
****Note: Refer to Wiring Diagram on pg 15**

4



Push the control pad onto the mounting plate.
Plug in the power adapter to outlet if power is
not supplied by Ethernet connection.

5



Complete the setup and activate your account
by going to **kaptivo.com/setup** in any web browser
and following the online instructions.

