







SMALL PARTS ENCLOSED

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Skyline Exhibits
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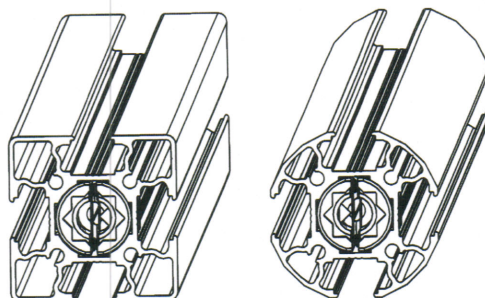
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BASIC ASSEMBLY

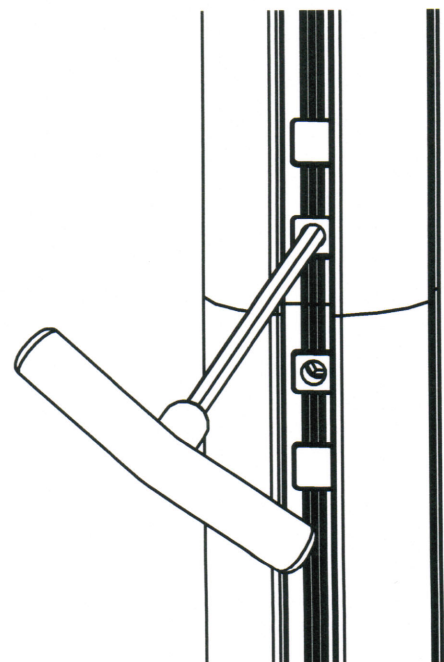
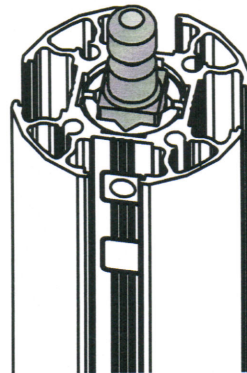
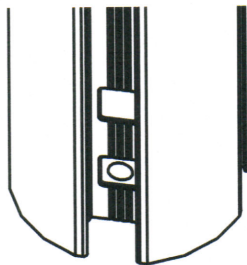
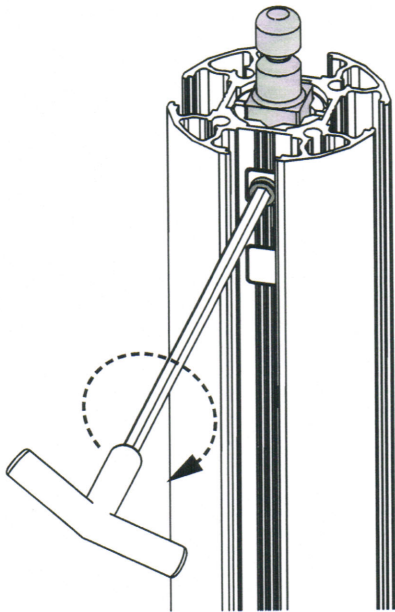
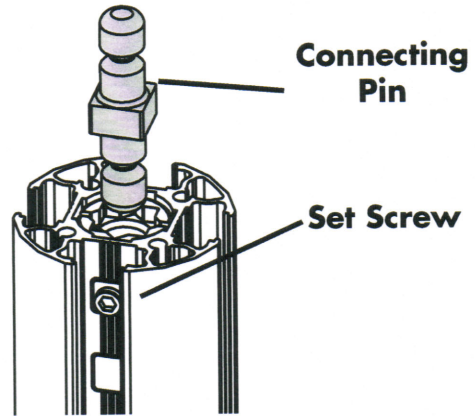


IMPORTANT

- 1. Always follow set up instructions carefully.** Some assembly methods can stress components beyond the requirements of the exhibits design and the intended capacity of the system components.
- 2. Review entire design before beginning.** The first step should be an understanding of how the design goes together, and an inventory of parts. Follow the recommended assembly sequence of the design as it may be difficult to add some components at a later time.
- 3. Floor layout is important.** Moving a design can introduce undesired stress on system components. Because connections may also loosen when moved, an accurate floor layout can save time in the long run. Always build a section of the design which will stand on its own. This “base section” will then define the datum points for which all other dimensions are referenced. Make certain the base section is positioned correctly relative to the floor space because the rest of the exhibit must be assembled relative to the location of the base section.
- 4. Tools.** You will need a 1/4” and a 5/32” hex driver to assembly the tube system components. Levels, squares, and a string line can also be used to make the assembly proceed smoothly. Leveling, and checking for plumb should be done continuously as the booth is assembled.
- 5. Tighten All Connections.** Make sure primary connections are tightened and secure before adding secondary connectors. Make certain to tighten all connections as you go along! NOTE: A battery-operated driver can speed up the assembly process. However, a low battery or a weak driver can also be the culprit when loose connections are noticed. Checking for tightness (torque) by hand is preferred.
- 7. Packaging.** When unpacking your display and accessories, take note of the packing system and the materials used. Keep all packing materials and repack components in the same manner as originally shipped. Components and accessories can be damaged during shipping or storage if not packed carefully.
- 8. DO NOT DISASSEMBLE TUBES.** Although the tubes can be disassembled, this should never be done. The tubes are carefully assembled in our facility and any attempt to disassemble them will void the warranty and will render the tube unusable.packed carefully.

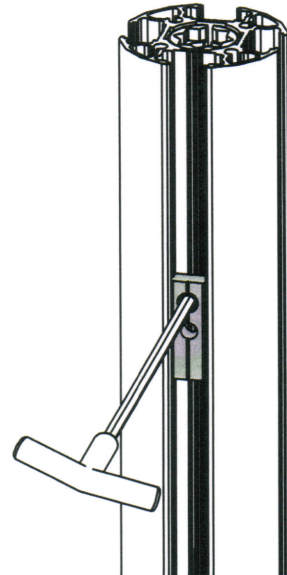
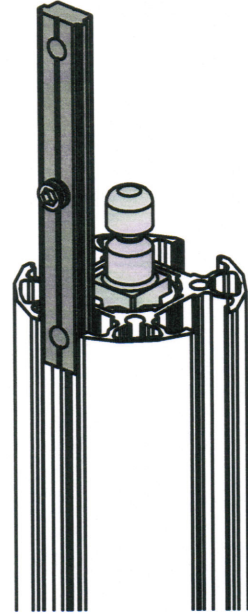
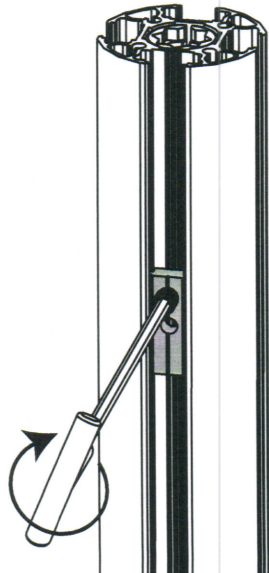
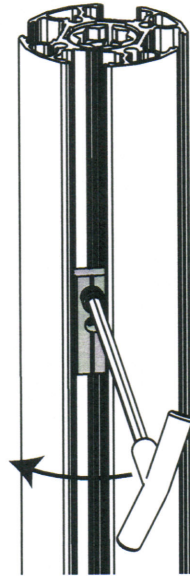
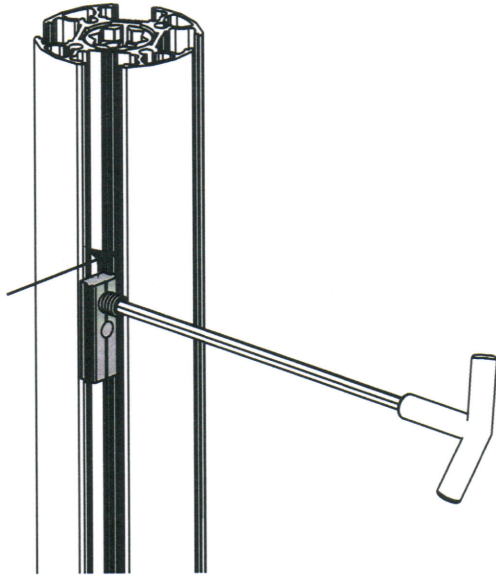
Assembling Tubes:

Connecting pins are used to join tubes together and to prevent a tube from rotating when attached to another tube or to a base plate. Fit a connecting pin into the tube insert and secure it with the tube set screw. Fit the second tube onto the pin and secure it by tightening its set screw.



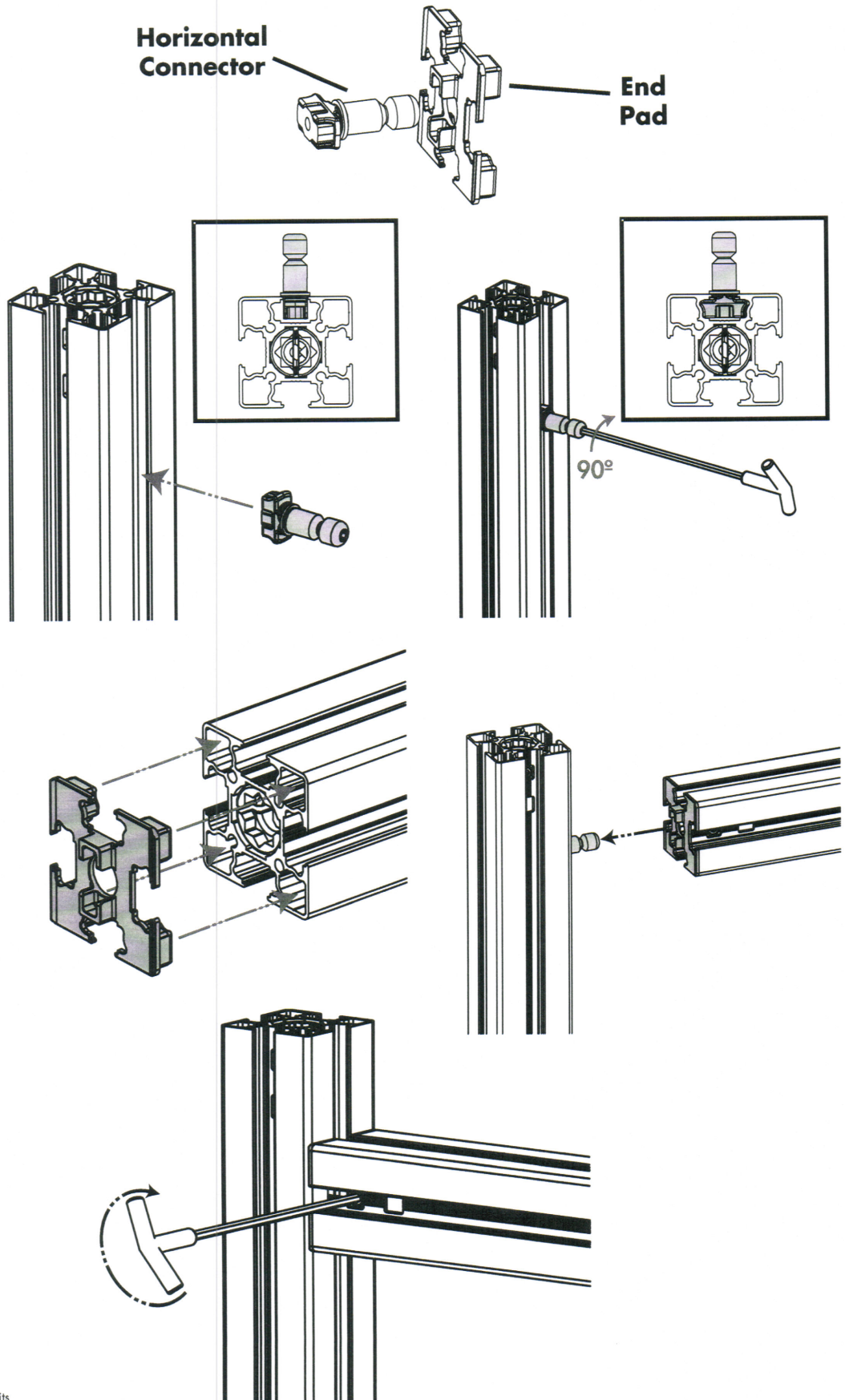
Nut Plates:

Nut Plates are needed when attaching many accessories. Nut plates can be installed in one of two ways: by sliding the plate into the slot before the tubes are assembled, or by angling the plate into the slot. Using the allen wrench inserted into the set screw will help when angling in the nut plate.



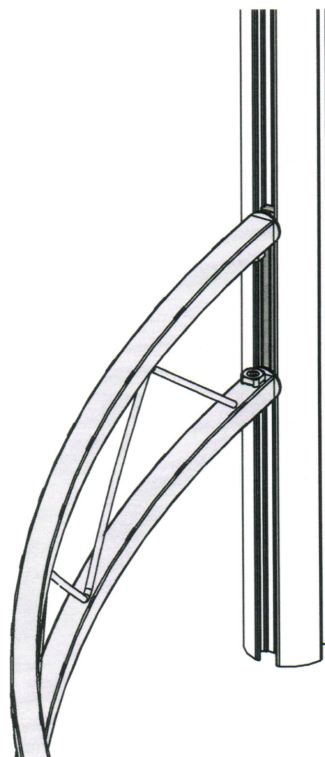
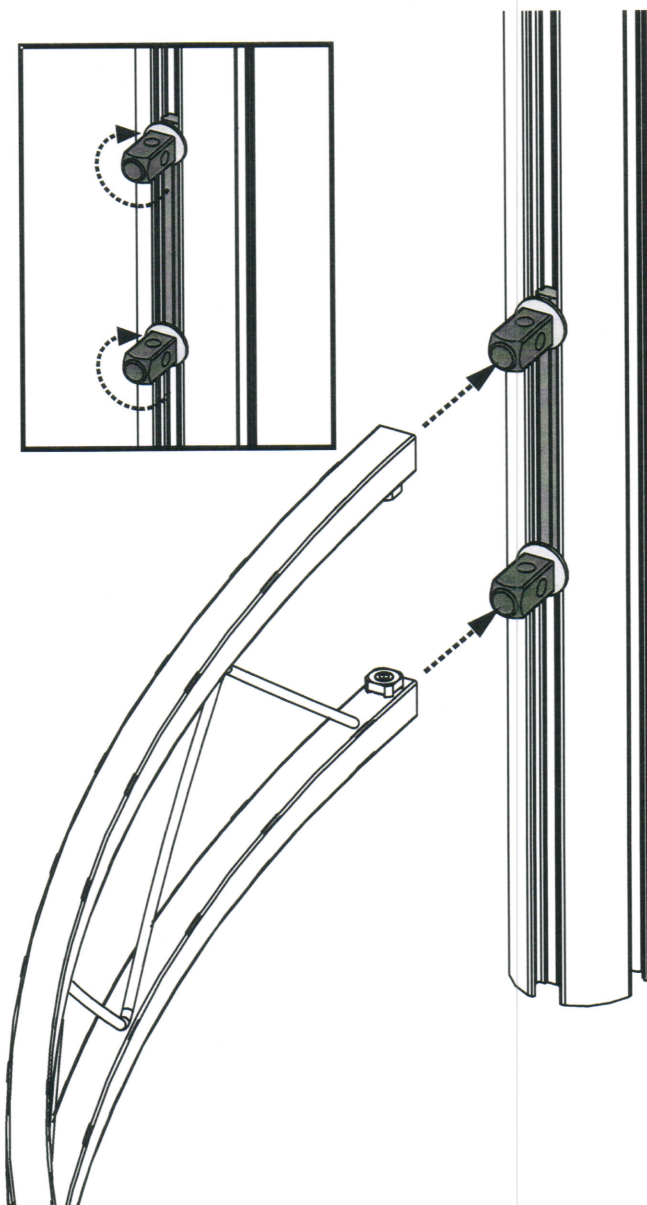
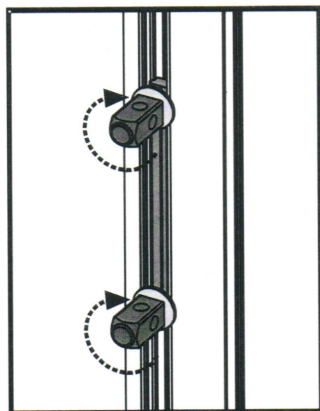
Connecting Horizontal Tubes:

Fit Horizontal Connector into the slot of the vertical tube where the horizontal tube will be attached. Using an allen wrench, turn the Connector 90° to lock it into position. Fit the End Pad into the end of the horizontal tube. The center hole of the End Pad will fit onto the Horizontal Connector with the center "lip" fitting into the slot of the vertical tube. Secure the assembly by tightening the set screw of the horizontal tube.



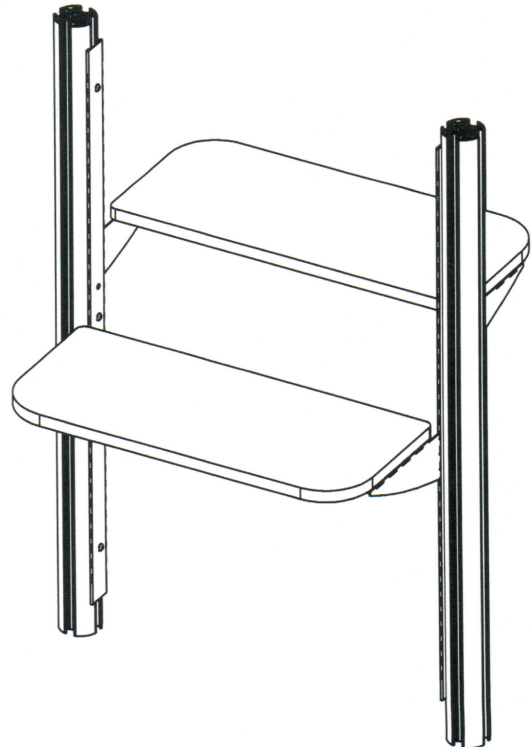
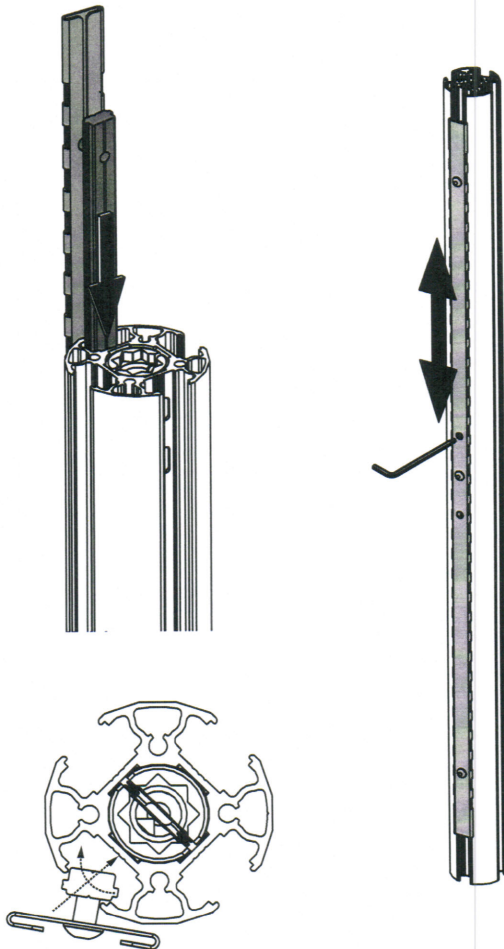
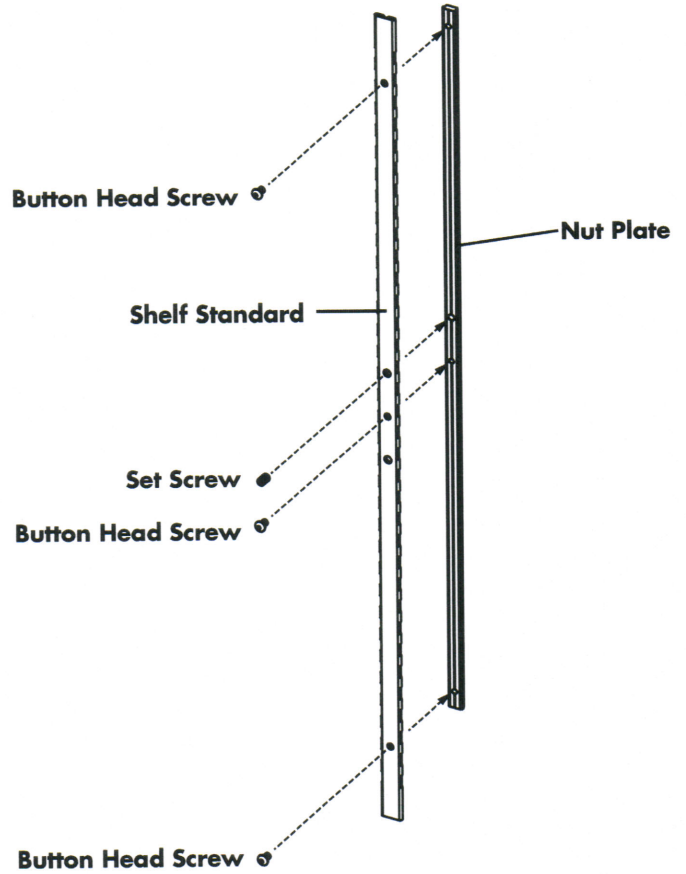
SkyTruss to Slotted Tube:

SkyTruss to Tube Ultra Connectors come assembled. Slide or angle the nut plate into the slot, making sure the washer is outside the slot. Slide the connector to the desired location, then turn the SkyTruss blocks to secure. The blocks are spring loaded allowing them to adjust for mounting the SkyTruss. Fit the SkyTruss Section onto the blocks and tighten the SkyTruss set screws.



Shelf Standard:

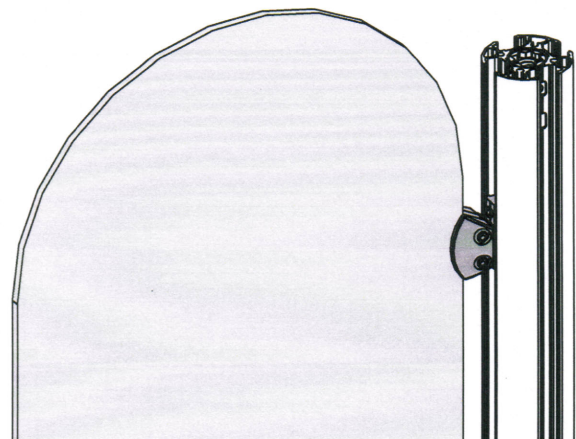
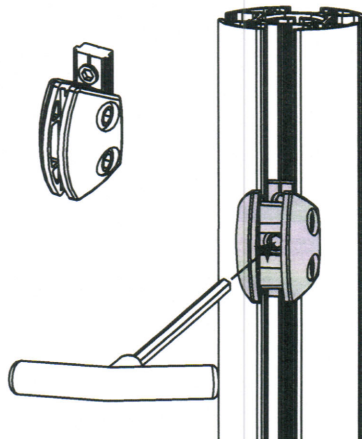
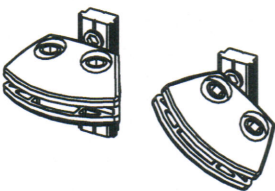
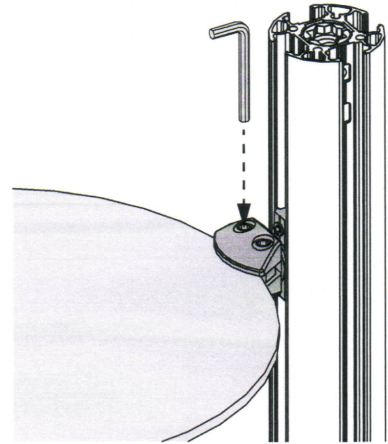
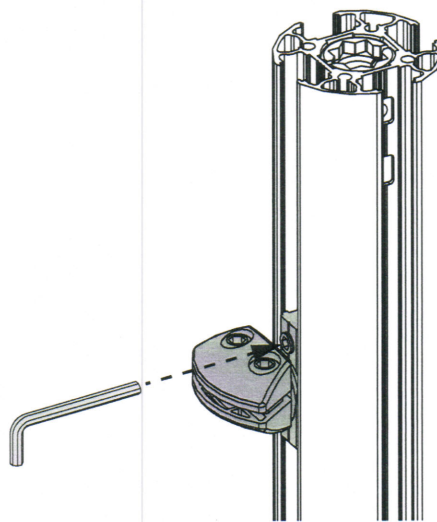
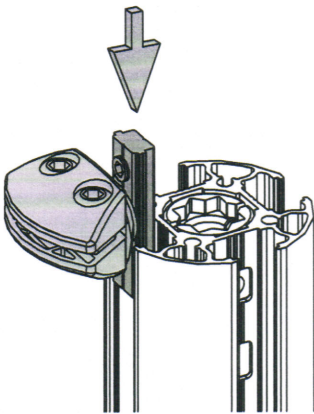
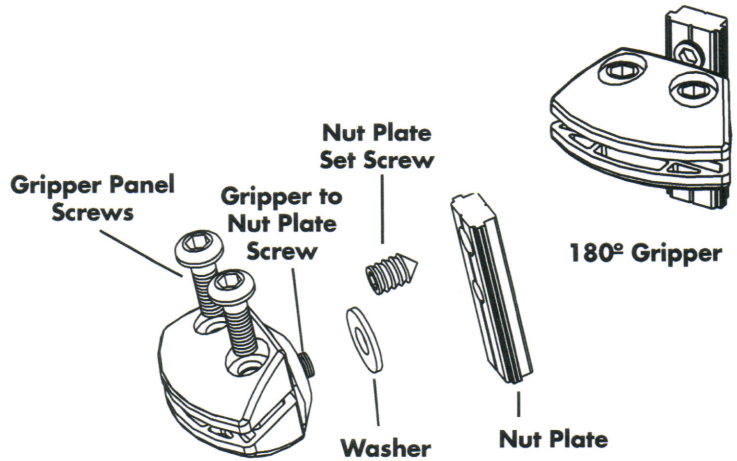
Screw the set screw into the nut plate. Loosely attach the Double Shelf Standard to the nut plate with the three 1/4-20 x 3/8" button head retaining screws. Slide or angle the nut plate into the slot. Slide the shelf standard into position and screw down the set screw to lock it in place. Finish by tightening the three retaining screws. Shelf brackets can be used on either side of the shelf standard. Remove the Shelf Standard by unscrewing the retaining screws. Leave the nut plate and set screw in place for the next setup.



Grippers:

Grippers are used to hold panels or plexi shelves up to 3/16" thick. A single 180° Gripper positioned horizontally will hold one shelf. Two Grippers positioned vertically can be used to hold a larger sign.

180° Gripper: Slide or angle the nut plate into the slot making sure the washer is outside the slot, position the gripper, then tighten the nut plate set screw. Turn the gripper horizontally or vertically, then tighten the gripper to nut plate screw. Fit the panel or sign into the mouth of the gripper and secure it with the gripper panel screws.

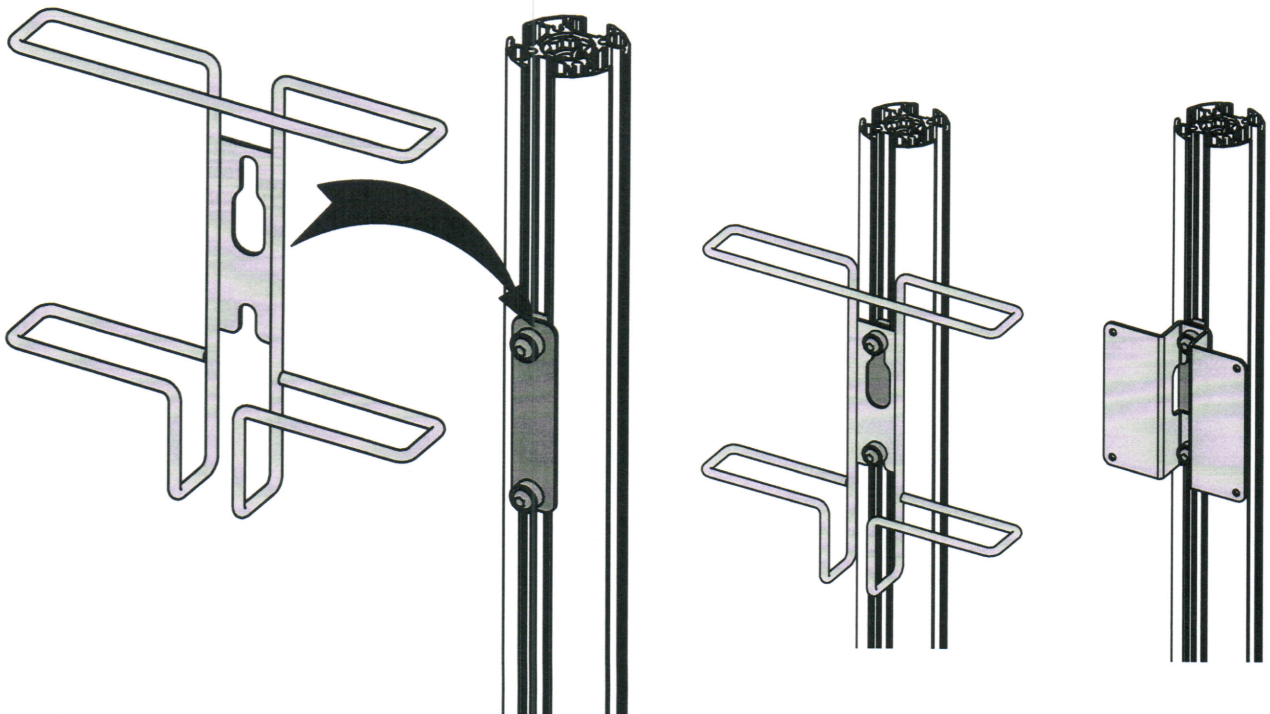
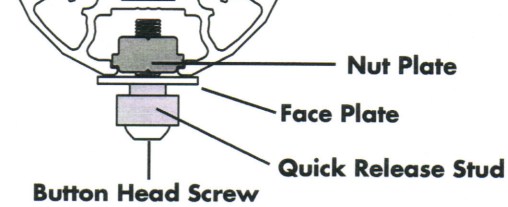
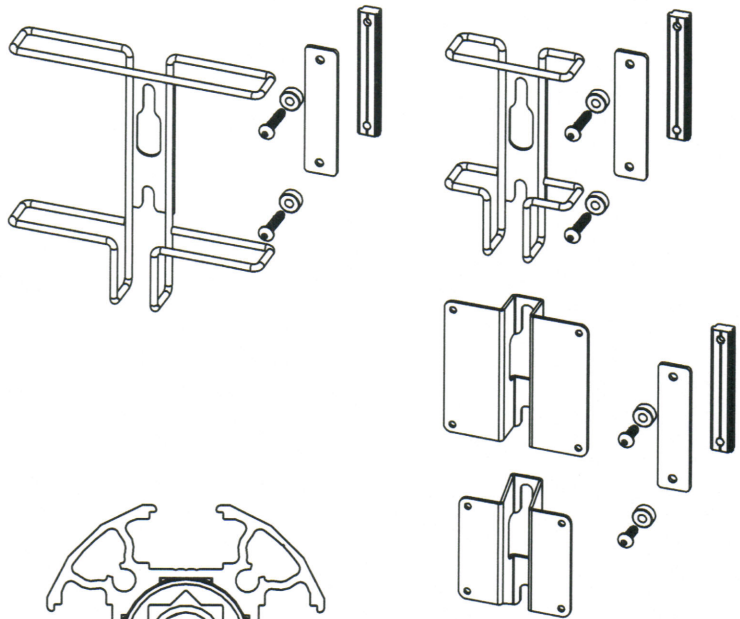


Literature Racks and Monitor Mounts:

Assemble the mounting base by fitting the 1/4-20 x 1" Button Head Screws through the Quick Release Studs, the Face Plate, and into the Nut Plate. Slide or angle the Nut Plate into the tube slot, slide the assembly to the desired location, then tighten the screws to lock it into position.

Fit the Literature Rack or Monitor Mount onto the Quick Release Studs.

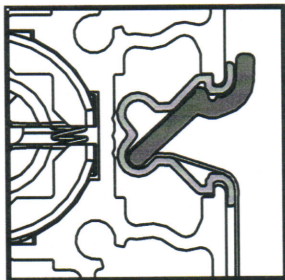
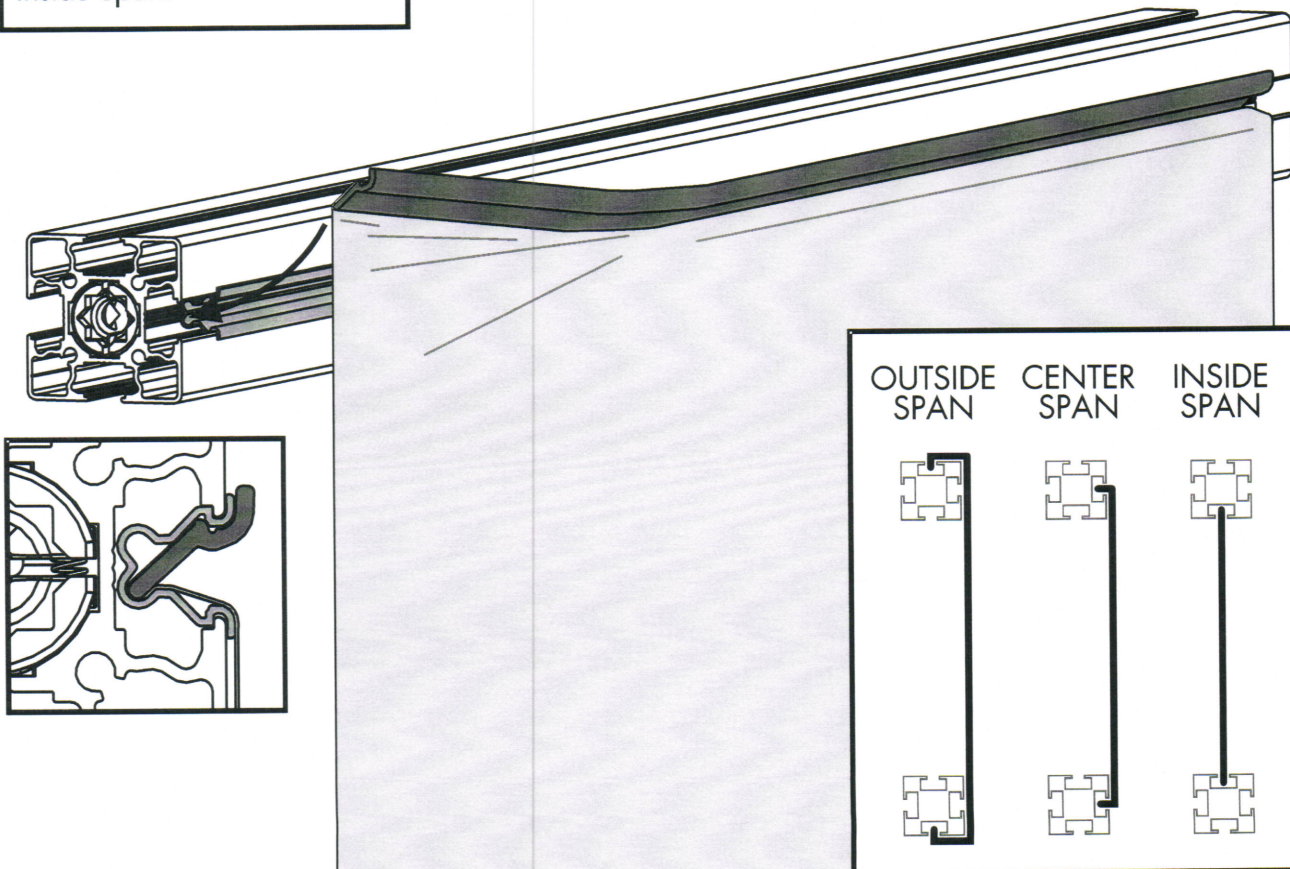
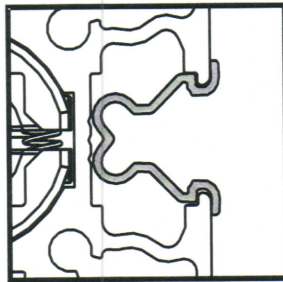
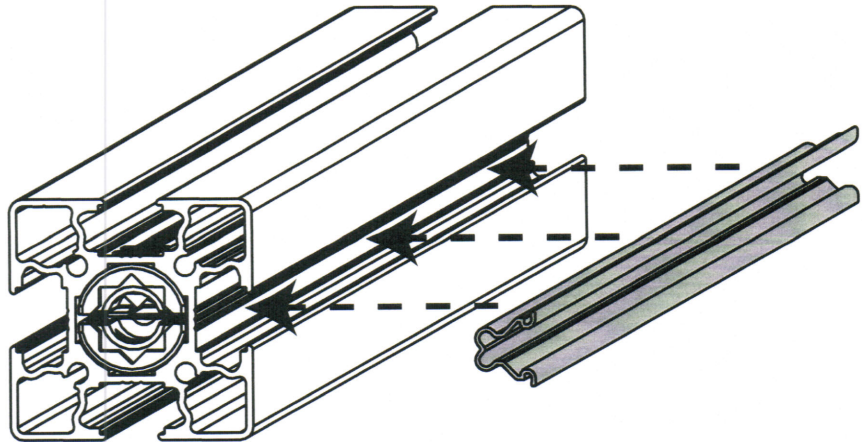
To remove: lift off the Rack or Mount, loosen the screws of the base until the assembly can be angled or slid out of the slot. Keep the base assembly together for the next setup.



Slotted Banners:

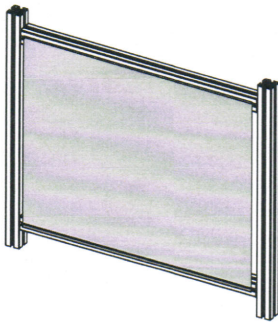
To mount banners onto Tube Ultra, each slot where a banner will be used will have an insert installed during pre-setup before leaving the Skyline manufacturing facility. If, at any time, the position needs to be changed, the insert can be snapped out of the slot and snapped into a different location. The banner has a flexible extrusion attached at each end. This extrusion angles into the insert as shown with the outside lip fitting over the insert. Start at one end of the banner and work your way across.

Banners can be installed in one of three variations: Outside Span, Side Span, or Inside Span.

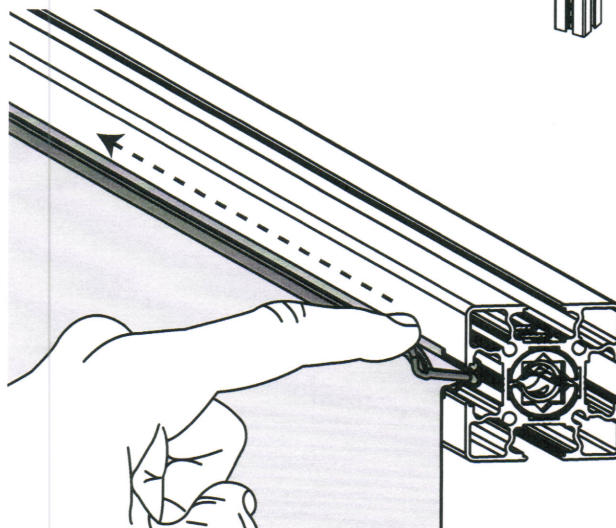
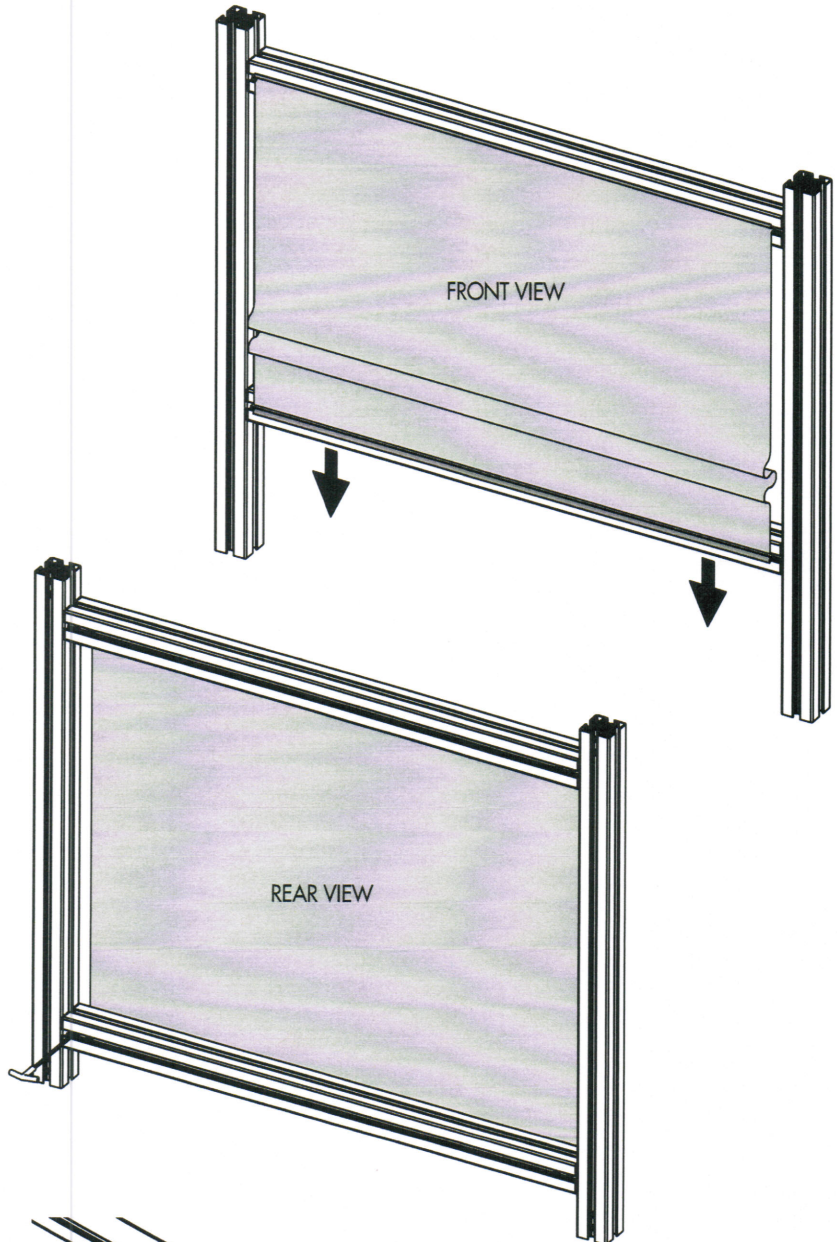


Slotted Banners (cont.):

Fit the top horizontal tube to the desired finished level. Attach the lower horizontal tube below it some inches above its final position. This will allow some slack in the banner making the installation easier. Attach the top of the banner to the top horizontal tube and the bottom to the bottom horizontal tube (see page 19). Slightly loosen the set screws securing the bottom horizontal tube to the connector pins in the vertical tube. Carefully slide the bottom horizontal tube, end caps, and the connector pins down the vertical tube until the banner is taut. Finish by tightening the set screws on the bottom horizontal tube.



To remove the banner, simply use your finger to pull the lip of the extrusion off the insert, then, run your finger down the length of the banner extrusion.



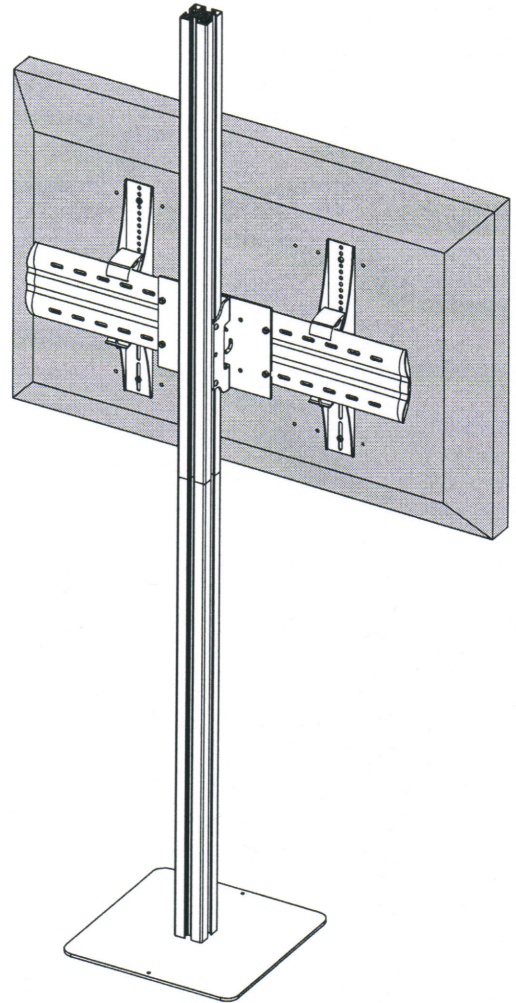
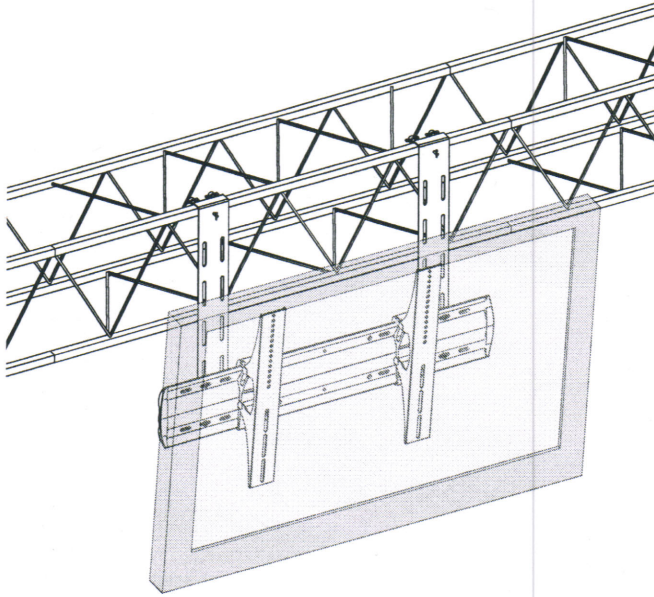
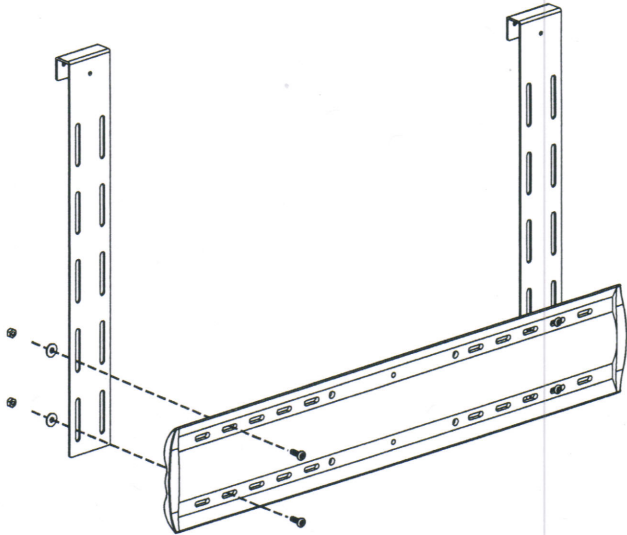


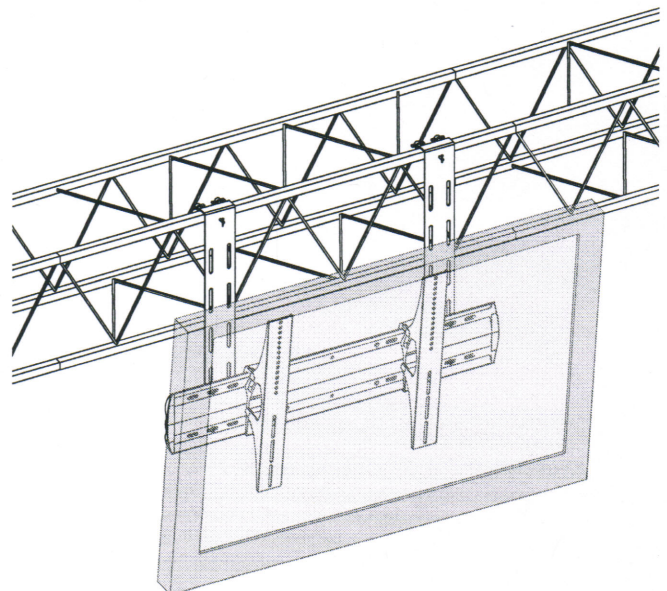
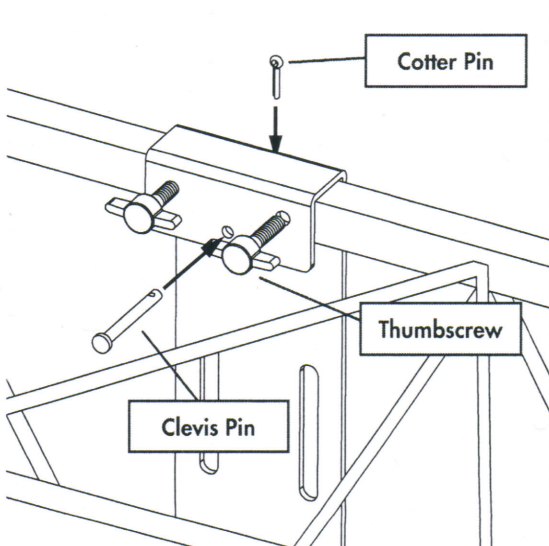
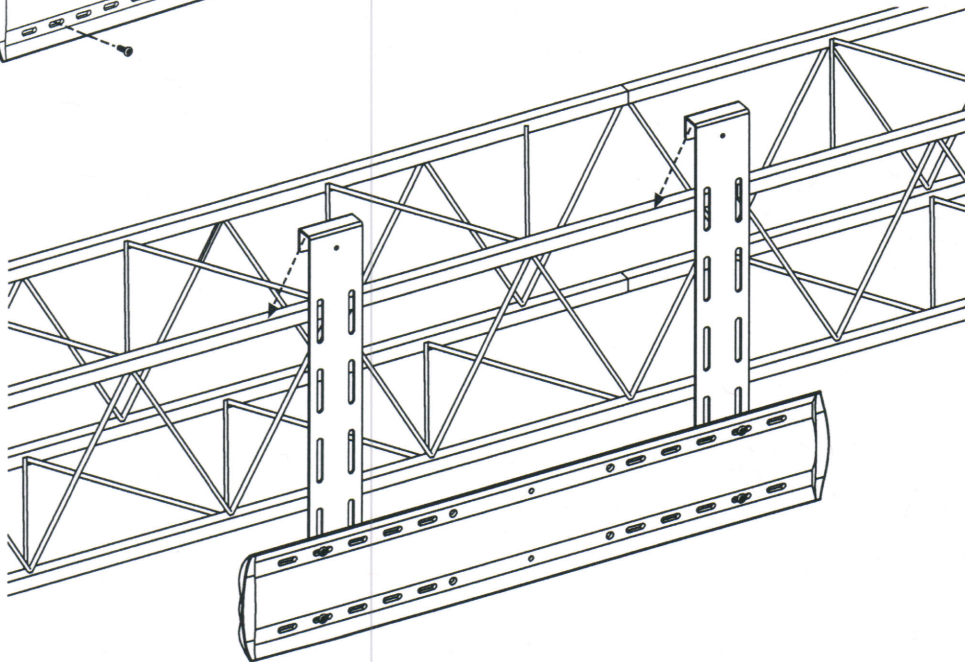
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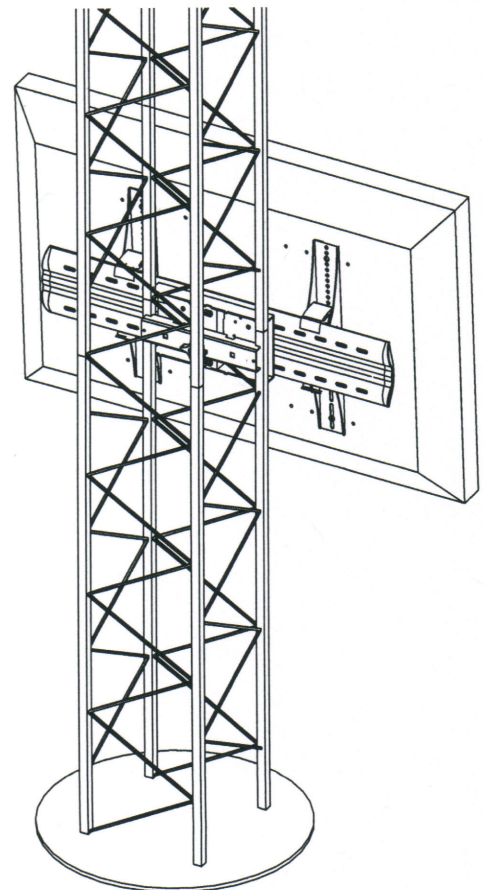
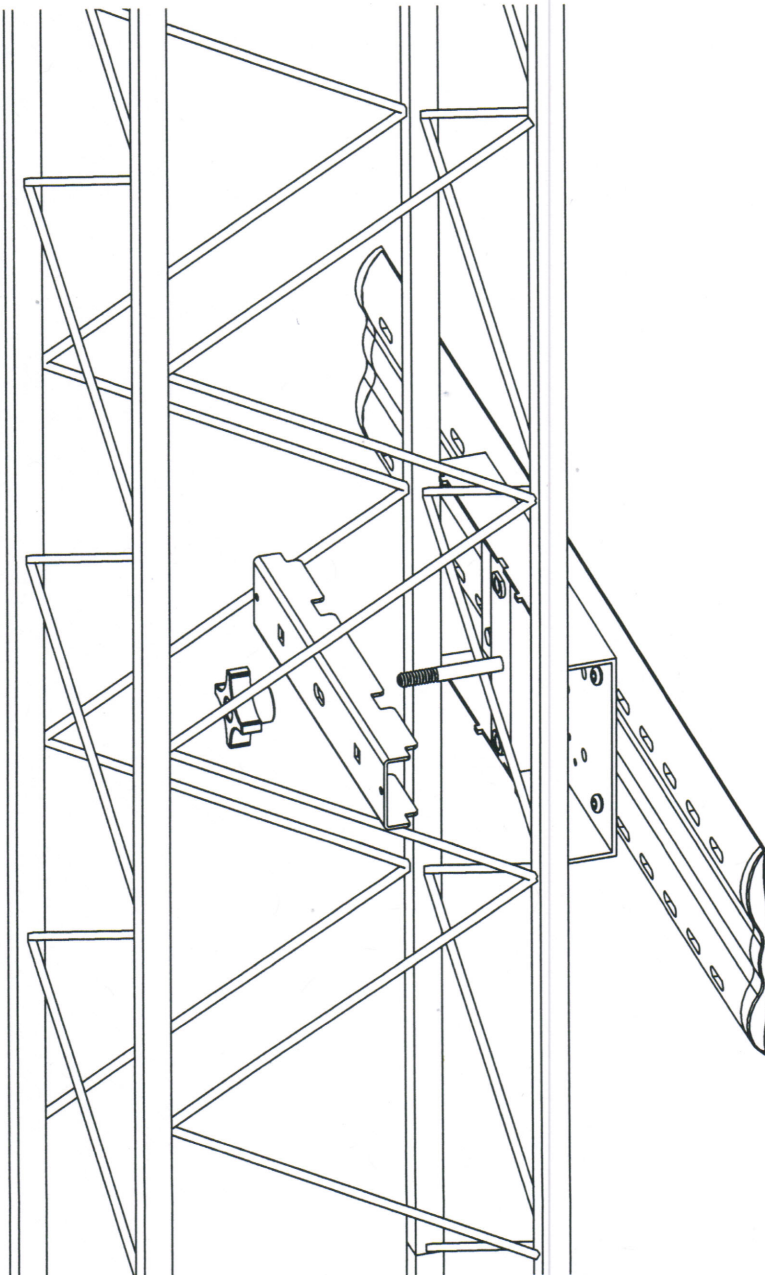
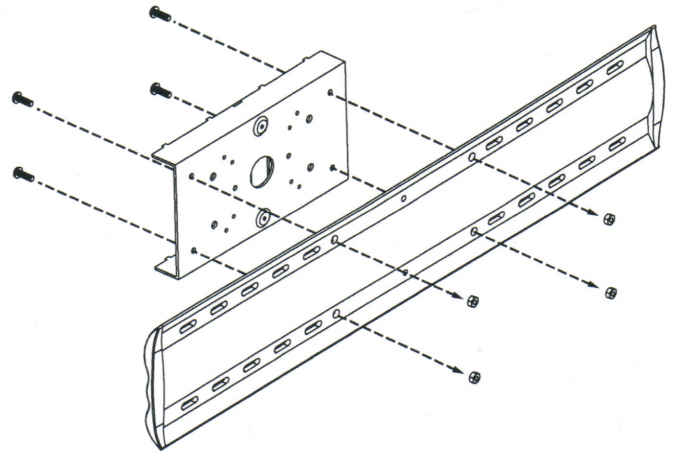


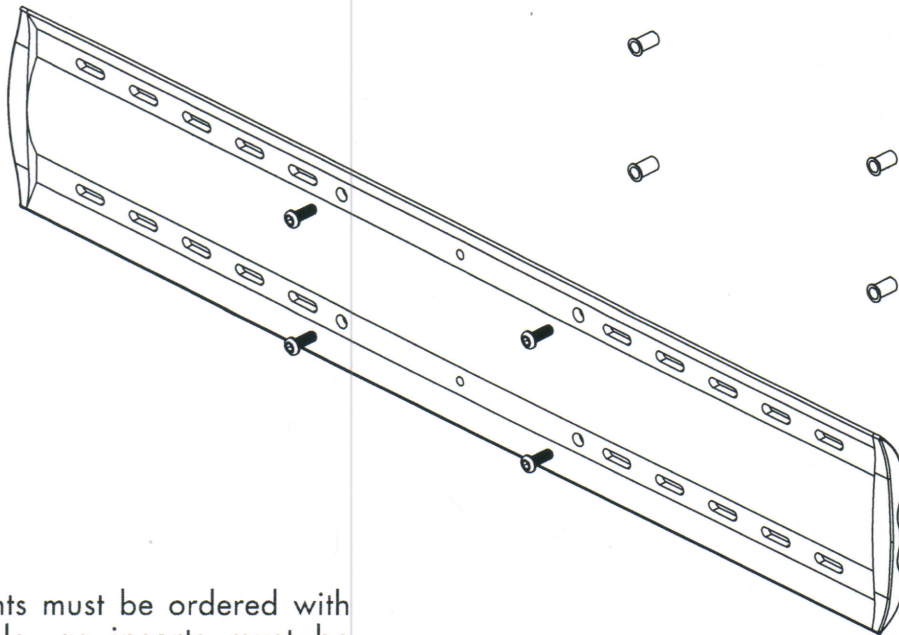
Attach the hanging brackets to the back side of the Plasma Mount base with bolts, washers, and nuts. Multiple slots in the hanging bracket allow the Plasma Mount base's position to be adjusted to the desired height. Hang the assembly from the upper horizontal tubes of the SkyTruss section. Tighten the thumbscrews, then fit the clevis pins into the lower center hole in the hanging bracket and secure with the cotter pins.

Prepare the monitor for hanging by attaching Monitor bracket arms - see page 8.



Attach the SkyTruss mounting bracket to the back side of the Plasma Mount base with bolts and nuts. Hold the assembly up to the vertical SkyTruss section and slide the mounting bracket bar onto the center bolt of the mounting bracket. Secure with the hand knob. Prepare the monitor for hanging by attaching Monitor bracket arms - see page 8.





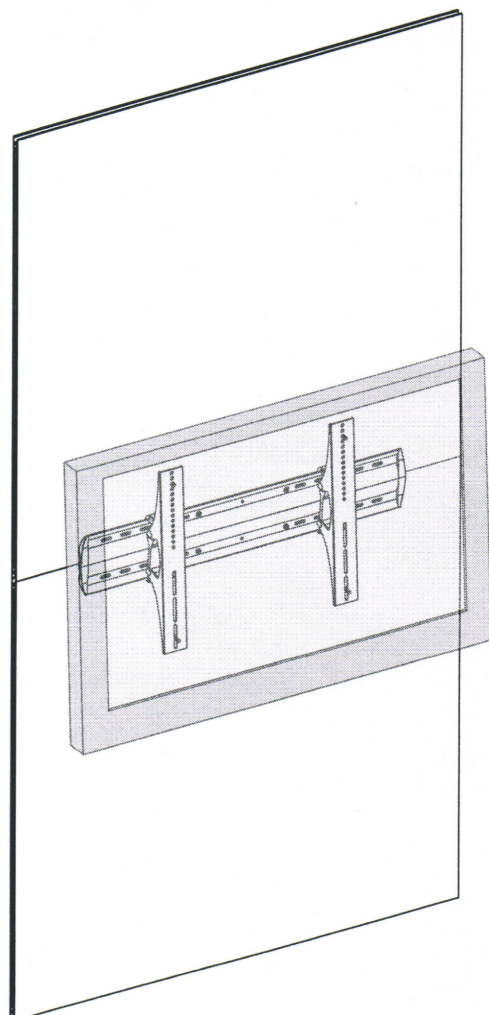
Monitor mounts must be ordered with custom panels, as inserts must be permanently installed in the panel frame. Typically, the inserts will be installed near a horizontal or vertical seam where two panels meet. It is important to note that the inserts must not be installed within 3" of a corner.

Mounting a bracket at a location other than a horizontal or vertical seam requires a custom panel with extrusions installed internally in the proper location during panel fabrication. A custom quote will be required.

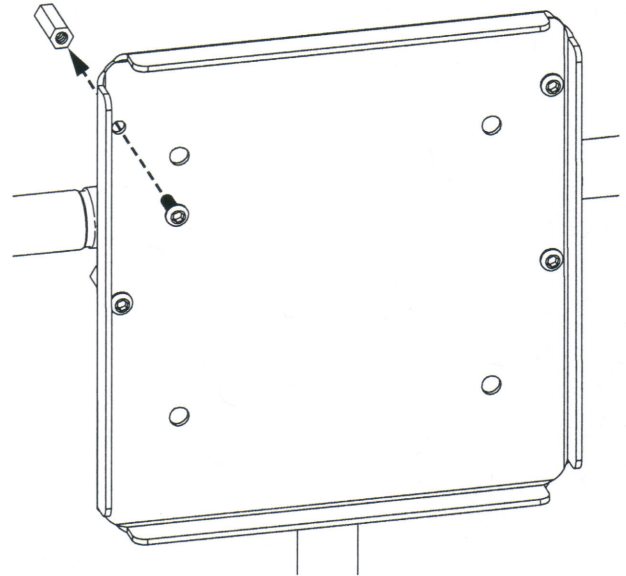
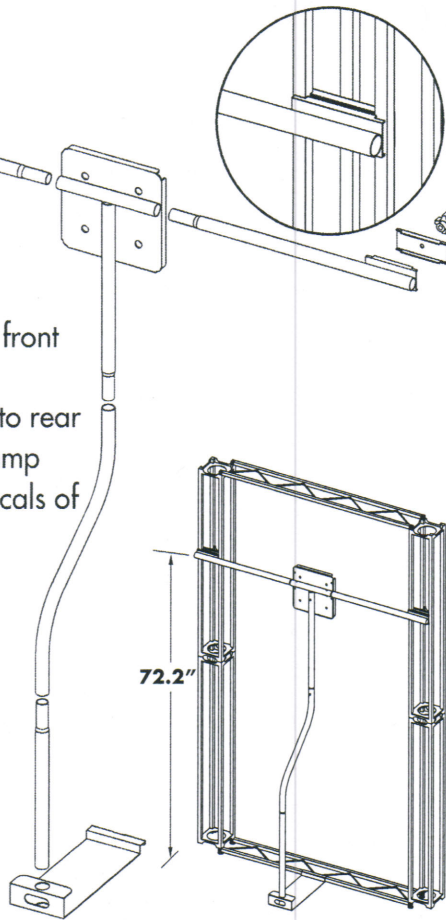
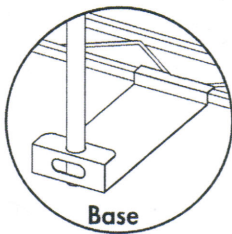
Install the Plasma Mount base by inserting the 1/4-20 x 3/4" button head cap screw through the round holes in the Plasma Mount base and into the inserts in the panel. Be careful not to overtighten the screws to avoid damage to the mount or the panel.

Prepare the monitor for hanging by attaching Monitor bracket arms - see page 8.

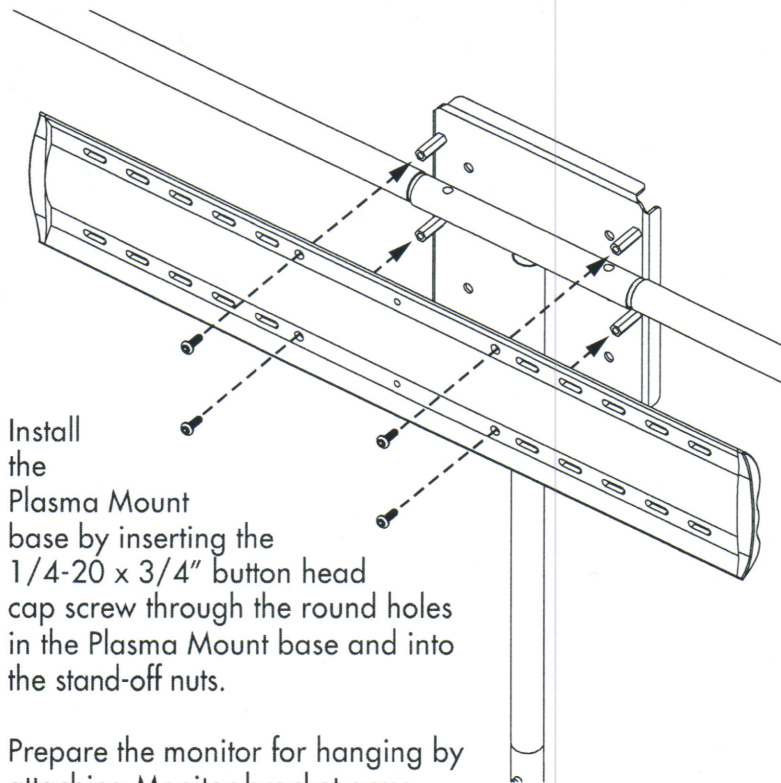
Plasma Monitors weigh a minimum of 100 pounds. The design of the exhibit structure must provide sufficient support and stability.



1. Assemble tubes.
2. Center base over front horizontal of frame.
3. Fit bottom tube into rear hole in base and clamp arms onto front verticals of vertical box.

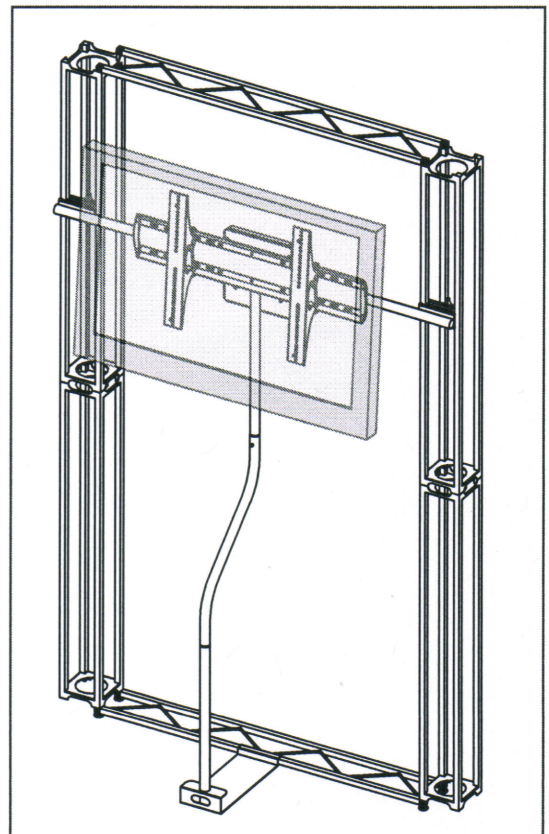


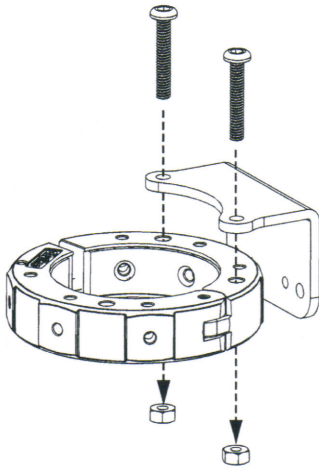
Install the stand-off nuts to the front side of the Inliten bracket with screws.



Install the Plasma Mount base by inserting the 1/4-20 x 3/4" button head cap screw through the round holes in the Plasma Mount base and into the stand-off nuts.

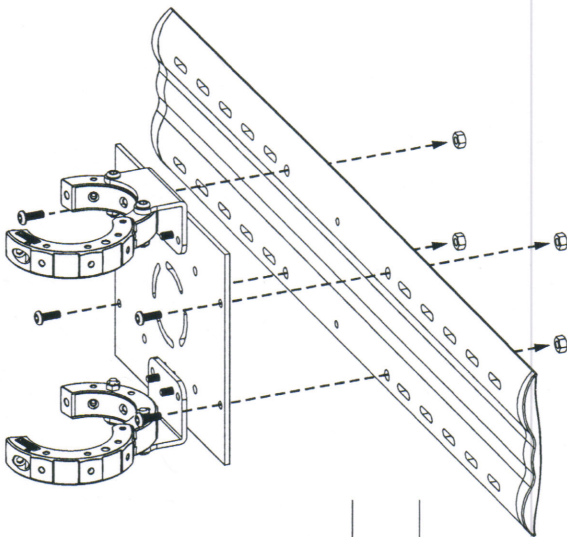
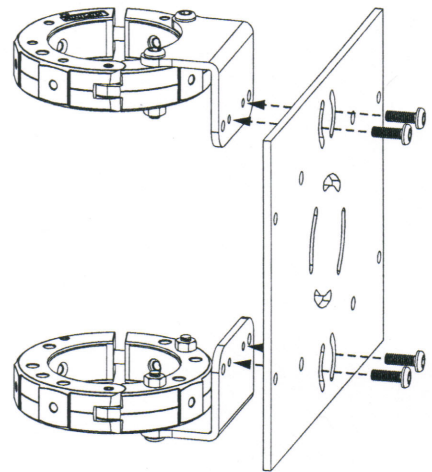
Prepare the monitor for hanging by attaching Monitor bracket arms - see page 8.



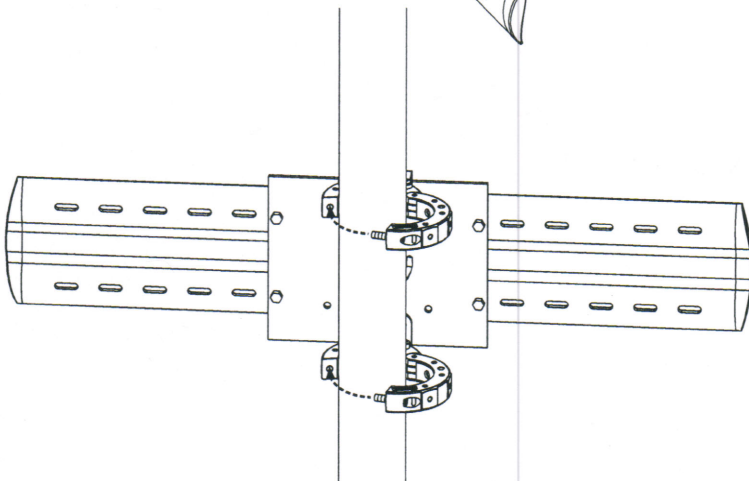


Mount an angle bracket to a tube collar as shown. Repeat for second bracket and collar.

The Plasma Mount Plate mounts to the collar brackets with 4 screws.

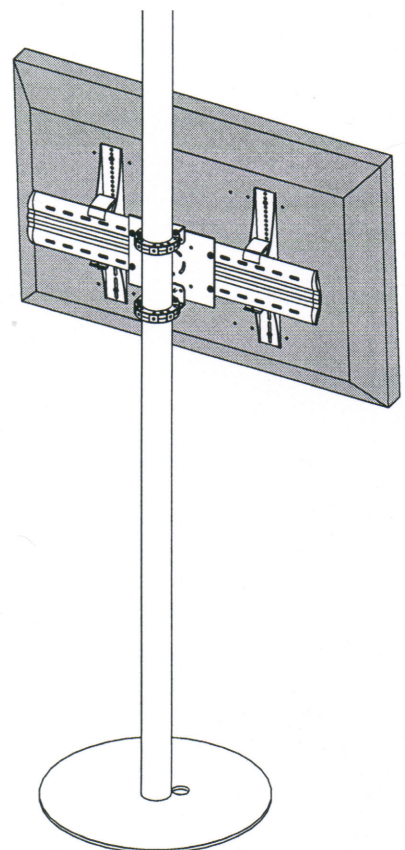


Install the Plasma Mount base by inserting the 1/4-20 x 3/4" button head cap screw into the outer holes of the Plasma Mounting Plate and through the round holes in the Plasma Mount base. Secure the with nuts.

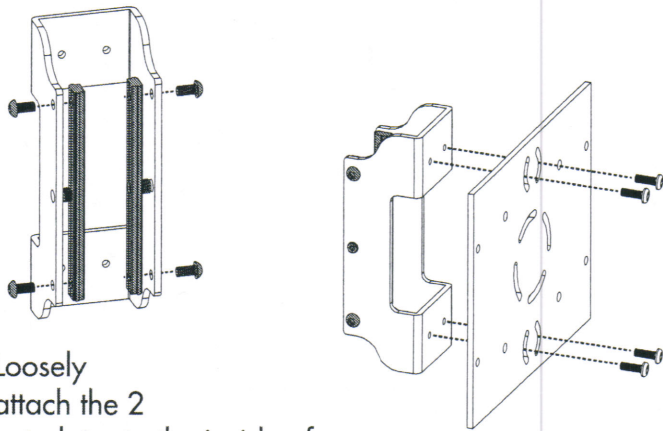


Mount the assembly to the vertical tube by opening the collar brackets, position the assembly at the desired height, closing the collars and securing them with the integrated collar screw.

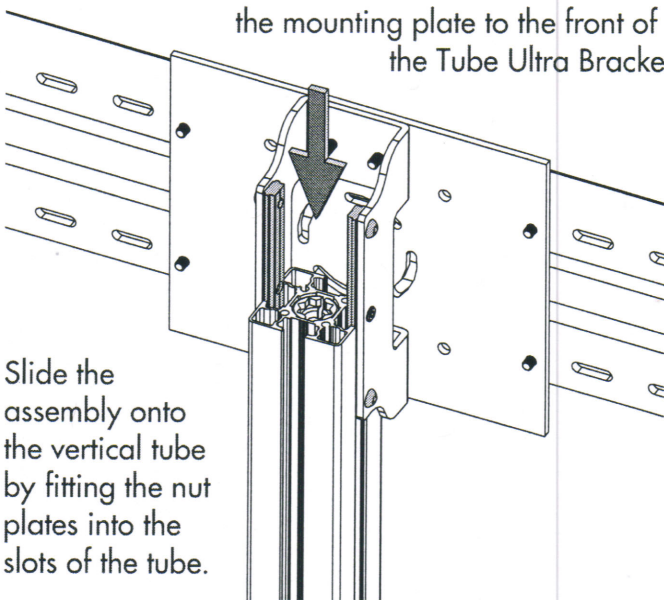
Prepare the monitor for hanging by attaching Monitor bracket arms - see page 8.



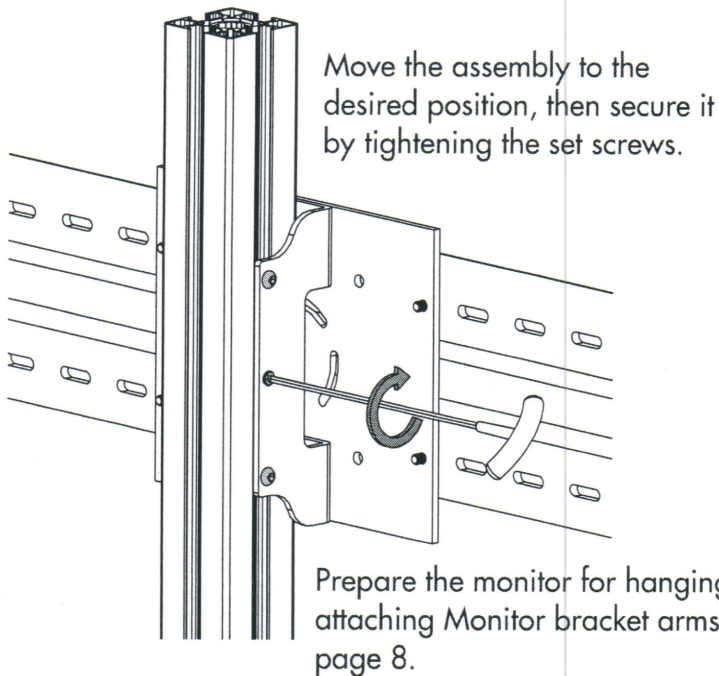
TUBE ULTRA



Loosely attach the 2 nut plates to the inside of the Tube Ultra bracket. Attach the mounting plate to the front of the Tube Ultra Bracket.



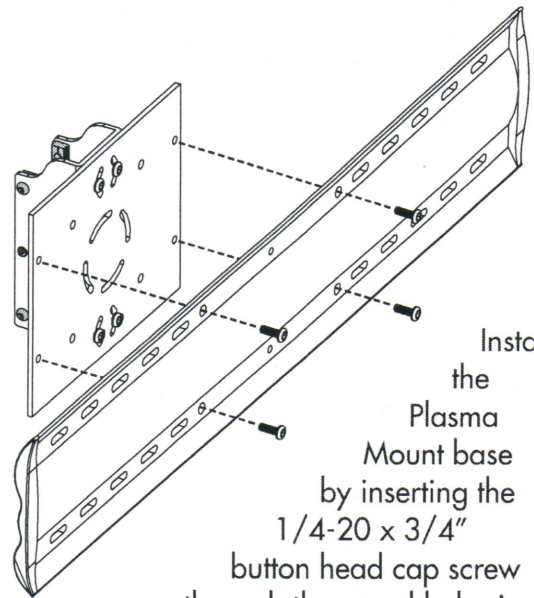
Slide the assembly onto the vertical tube by fitting the nut plates into the slots of the tube.



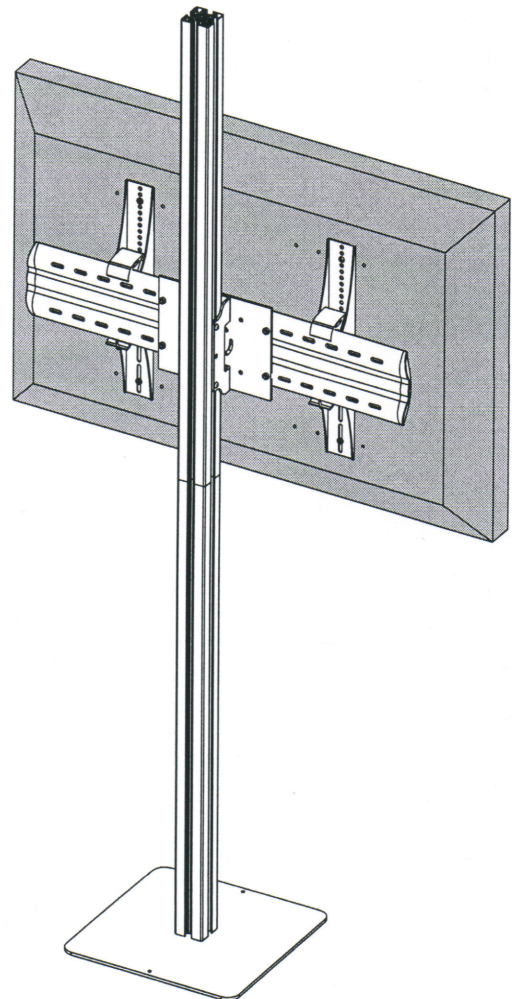
Move the assembly to the desired position, then secure it by tightening the set screws.

Prepare the monitor for hanging by attaching Monitor bracket arms - see page 8.

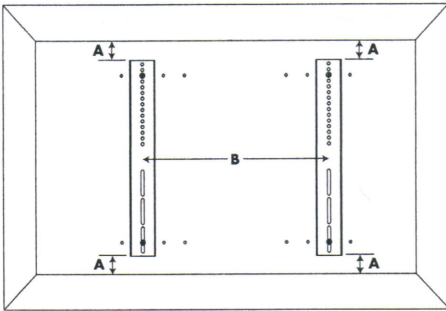
PLASMA SCREEN MOUNTING



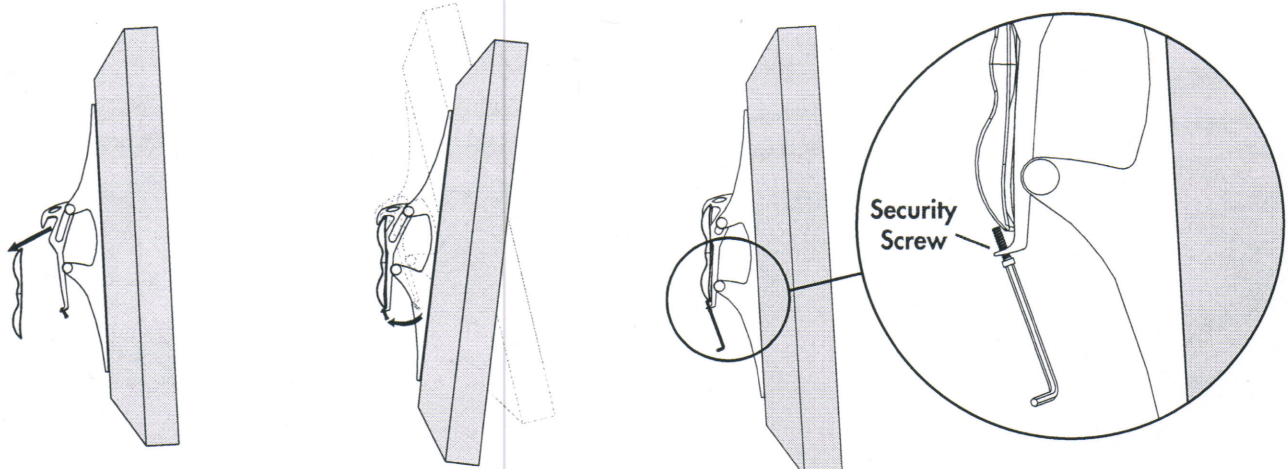
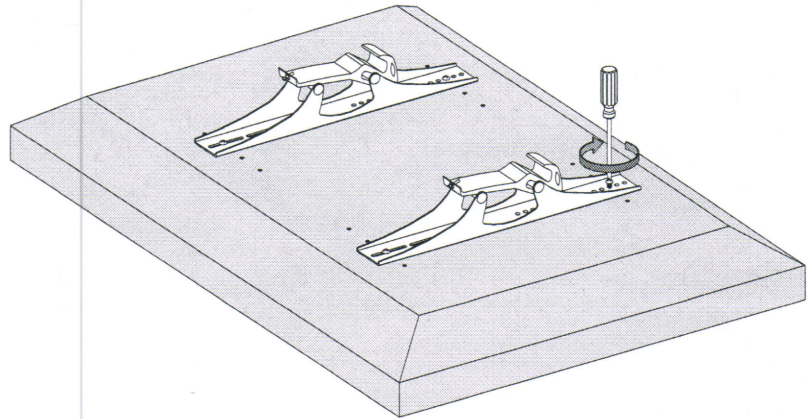
Install the Plasma Mount base by inserting the 1/4-20 x 3/4" button head cap screw through the round holes in the Plasma Mount base and into the mounting plate.



PLASMA SCREEN MOUNTING



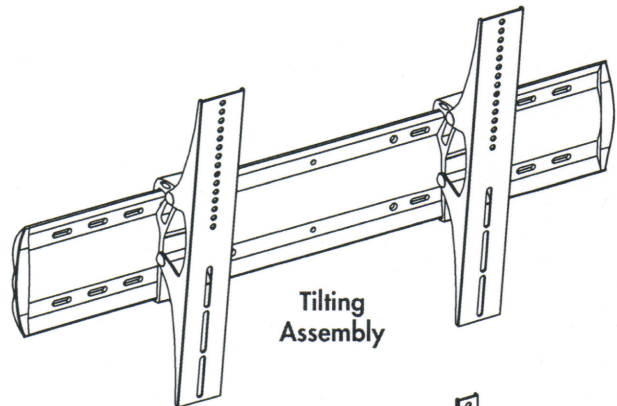
A = A
B is less than 29.5"



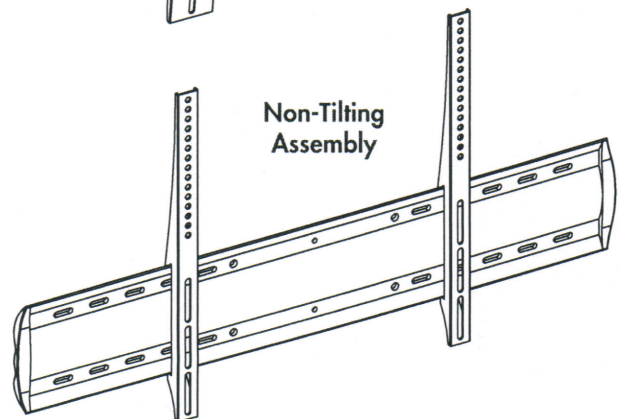
Attach mounting arms to the back of the monitor with screws. Make sure that the screws are fully seated and secure. Center the arms vertically on the back of the monitor.

The mounting arms should also be spaced horizontally as far apart as possible but with no greater spread than 29.5".

After attaching the arms, lift the assembly to the Plasma Mount base and fit the hook of the arms over the upper edge of the base. Lower the assembly until the lower lip of the arm fits over the lower edge of the base. Carefully slide the assembly horizontally until it is centered on the base, then tighten the security screw to lock the assembly in position.



**Tilting
Assembly**



**Non-Tilting
Assembly**

Monitor Bracket

ACCESSORIES

The monitor bracket is designed for monitors weighing less than 50 lbs. with VESA (View Electronics Standards Association) 75 x 75, 100 x 100, and 100 x 200 mounting holes.

A support truss must be installed square with the frame assembly and at least 1-½" below the top of the opening in the front panel before installing the monitor.

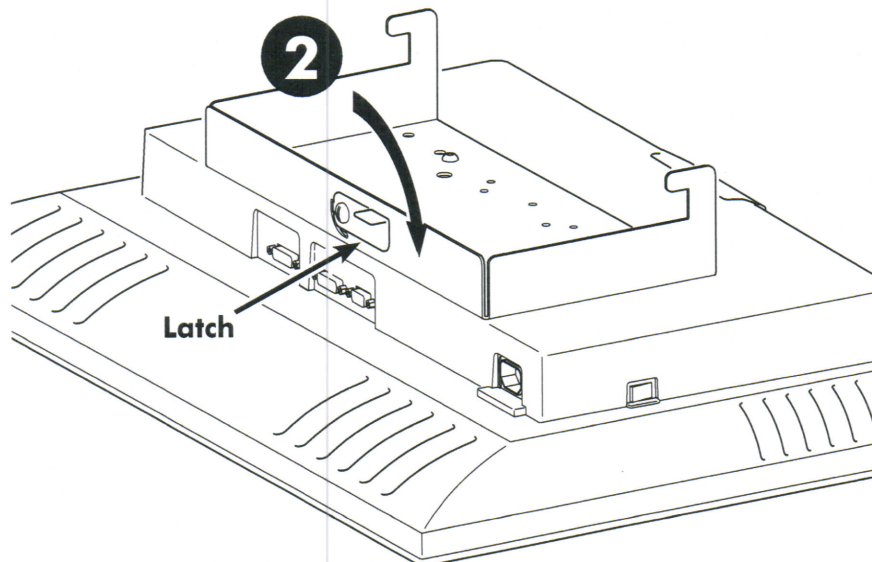
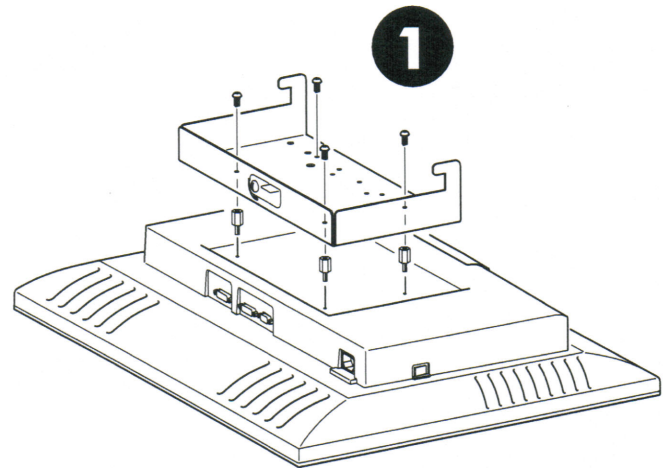
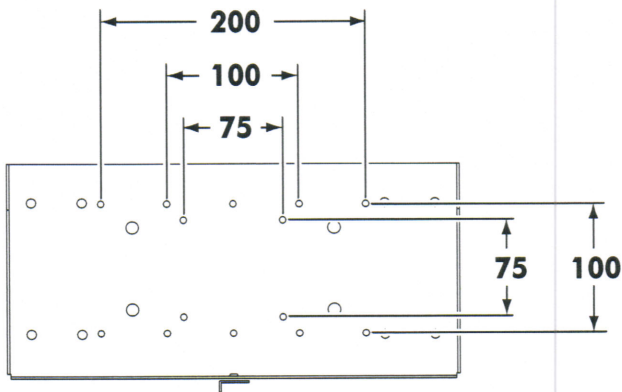
1. Attach the monitor bracket to the back of the monitor.

Note: Install the monitor bracket as close to the monitor as possible.

Four (4) mounting screws, four (4) 10mm lg. standoffs, and four (4) 20mm lg. standoffs are provided.

Use the standoffs if necessary for monitors with a recessed mounting surface only.

2. Set the monitor bracket latch to the unlocked position.
3. Remove the back panel from the Envoy frame assembly if previously installed.
Fit wire management clips into the sides of the frame at 18" intervals (optional).

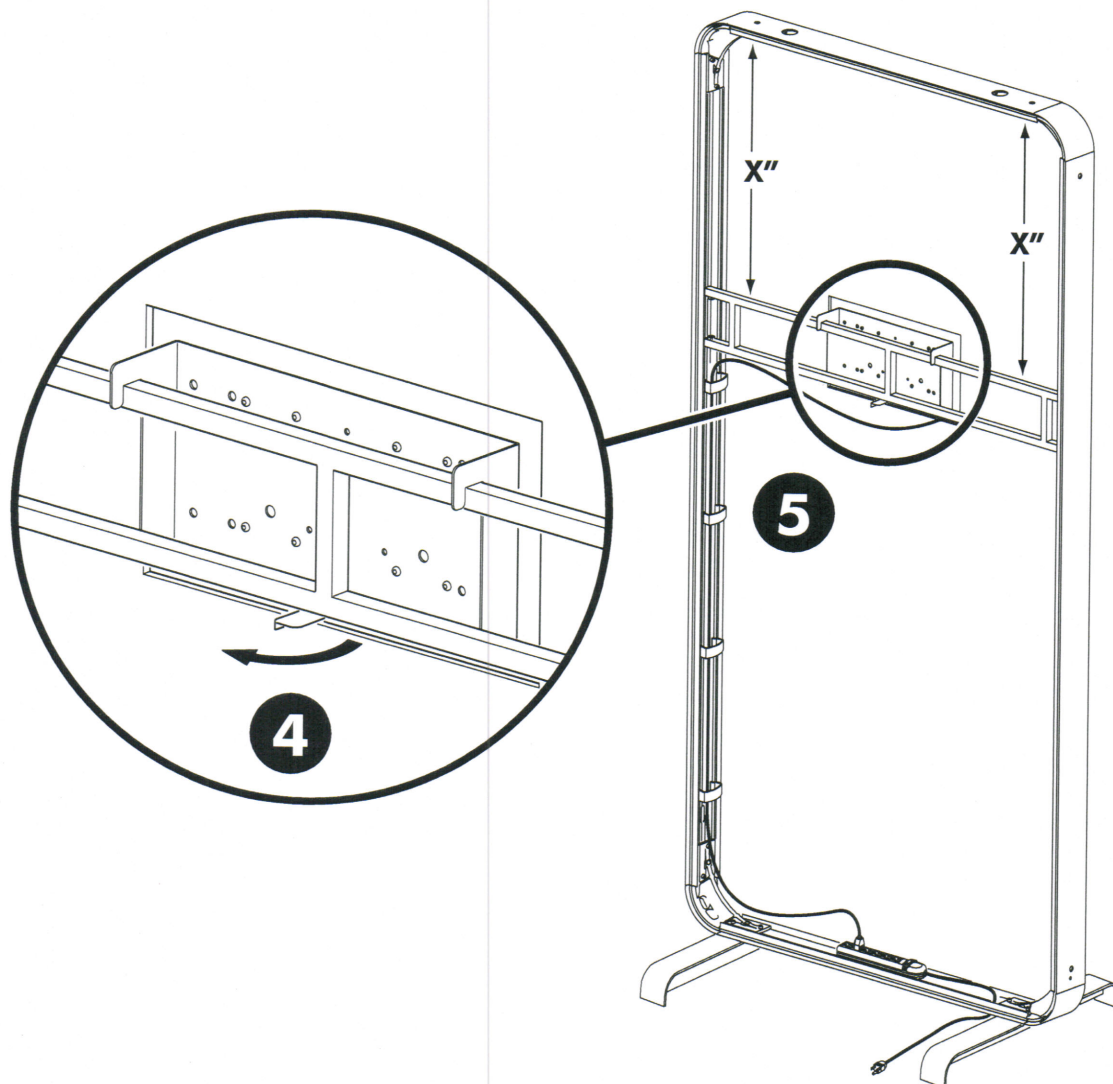


Continued...

Monitor Bracket (continued)

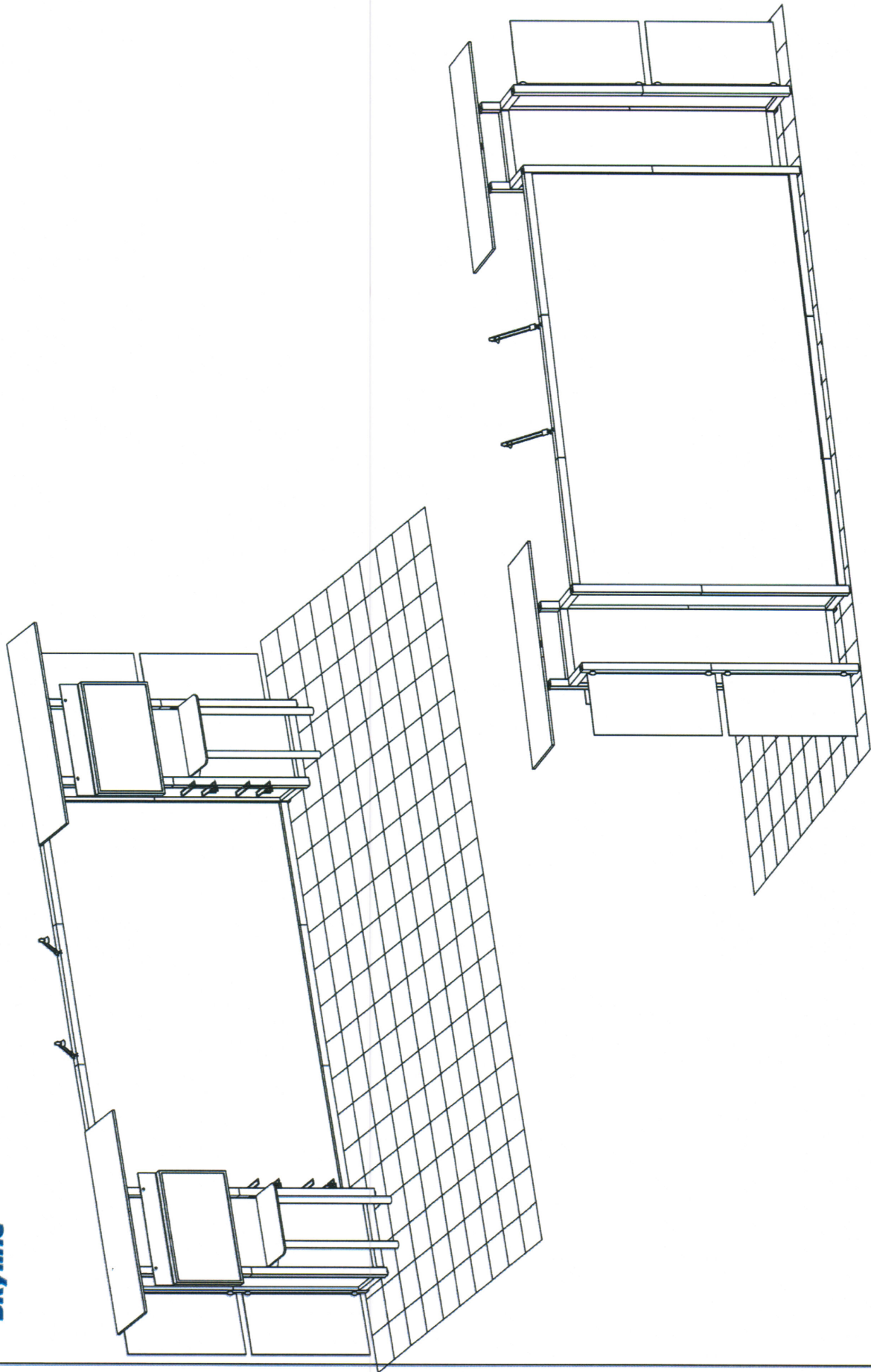
ACCESSORIES

4. Pass the monitor bracket hooks through the front panel and over the top of the truss support assembly. Move the monitor bracket latch to the locked position.
WARNING: Make sure the monitor bracket hooks are fully engaged with the truss support assembly and the monitor bracket latch is in the locked position. Failure to properly install the monitor bracket may result in personal injury and/or damage to property.
5. Run the monitor cords through the front panel, through any optional wire management clips and out one of the holes at the bottom of the assembly.
A power strip can be placed between the panels inside the assembly if multiple devices require electricity.



Numa

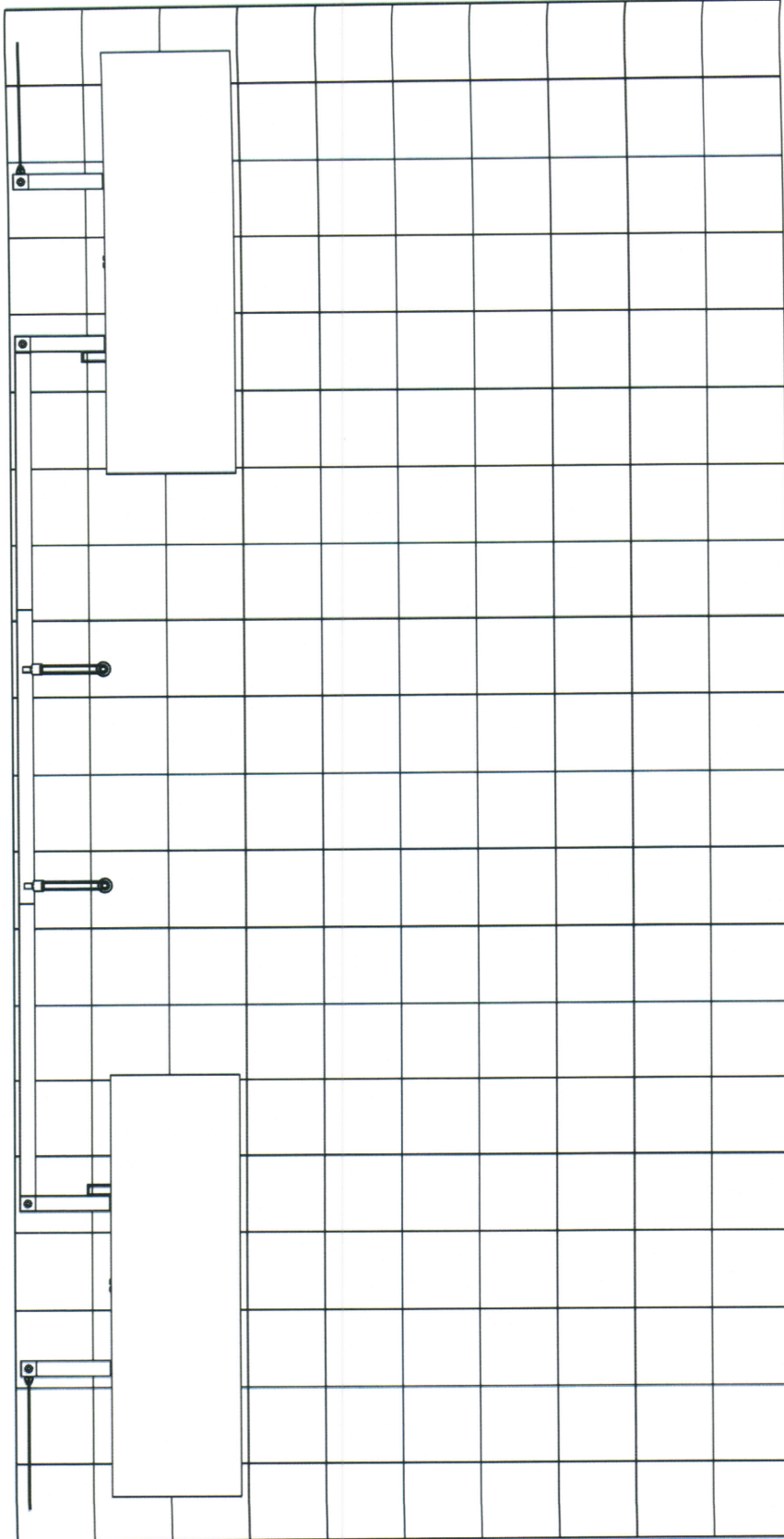
ASSEMBLY INSTRUCTIONS



Skyline

ASSEMBLY INSTRUCTIONS

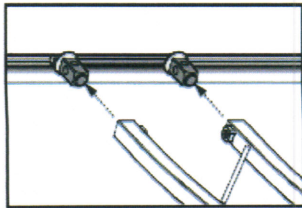
Numa



Booth Size: 10' x 20'
1 square = 1' - 0"

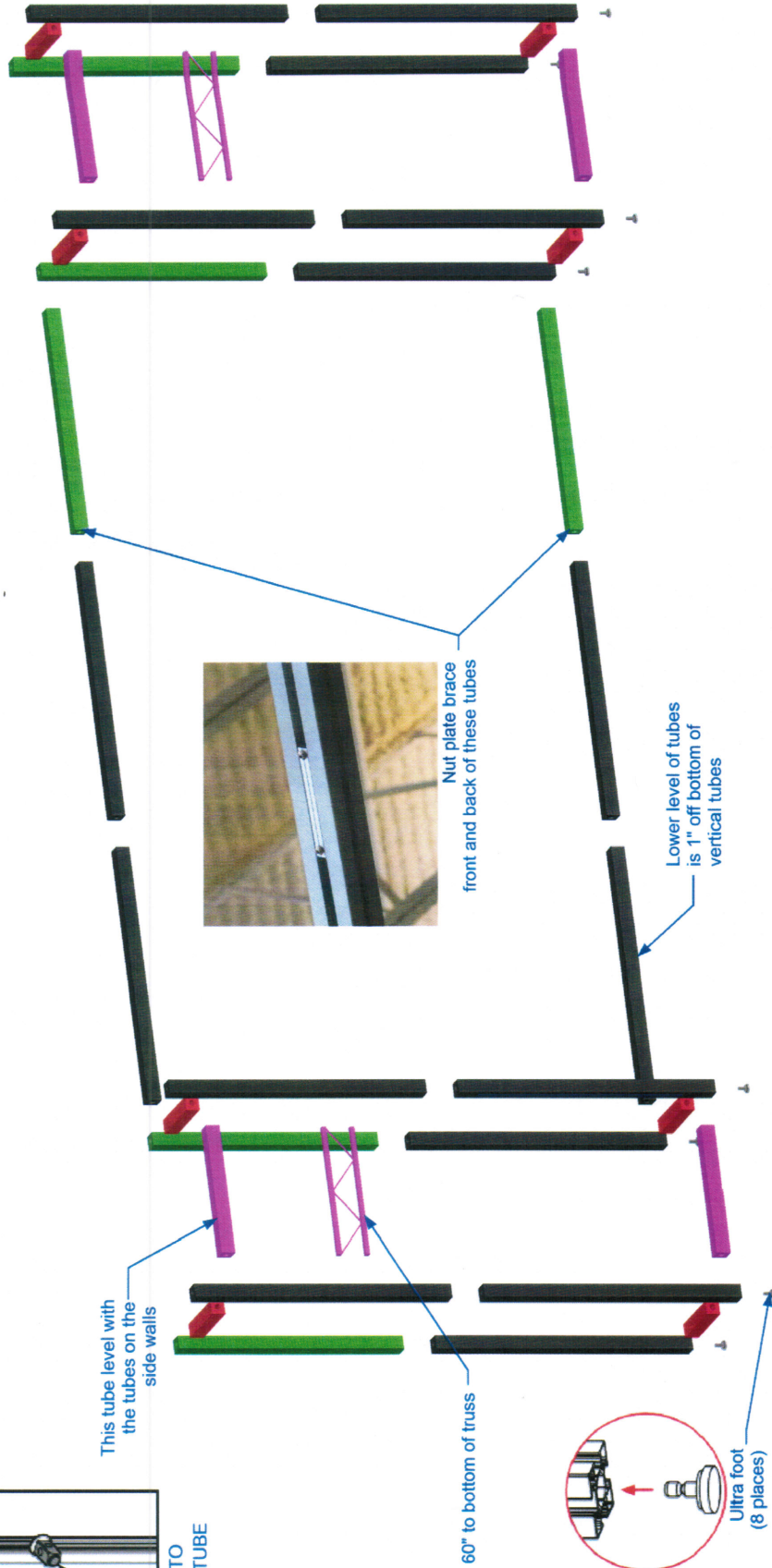
SIZE KEY

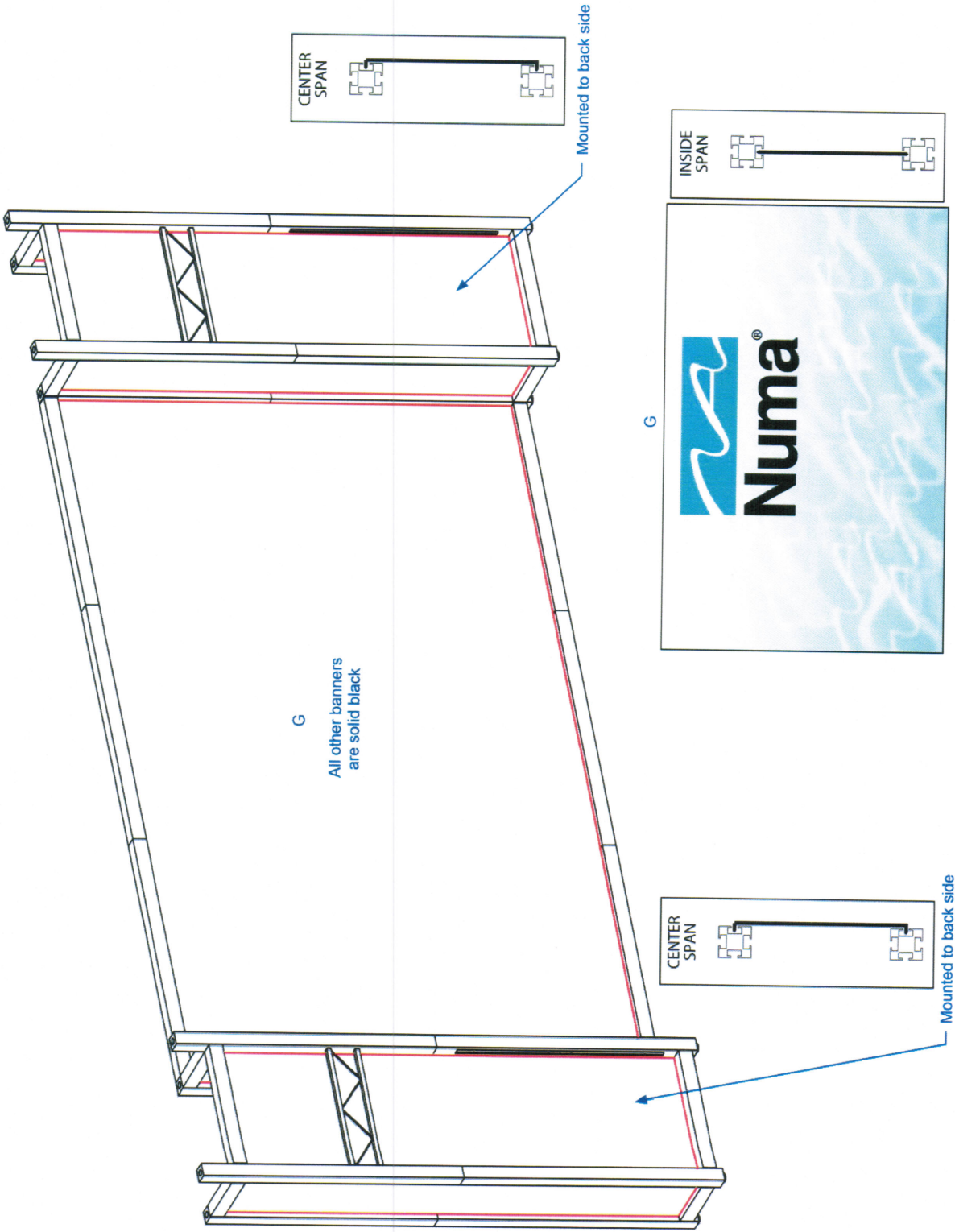
- 11.5" STRAIGHT
- 23" STRAIGHT
- 40.25" STRAIGHT
- 46" STRAIGHT



Item No	Qty	Description
1	16	46" Tube ULTRA
2	8	11.5" Tube ULTRA
3	8	Ultra Foot
4	4	23" Tube ULTRA
5	6	40.25" Tube ULTRA
6	2	5.75" x 23" Flat Truss
7	4	36.5" Double Shelf Standard

ASSEMBLY INSTRUCTIONS





G
All other banners
are solid black

CENTER
SPAN

INSIDE
SPAN

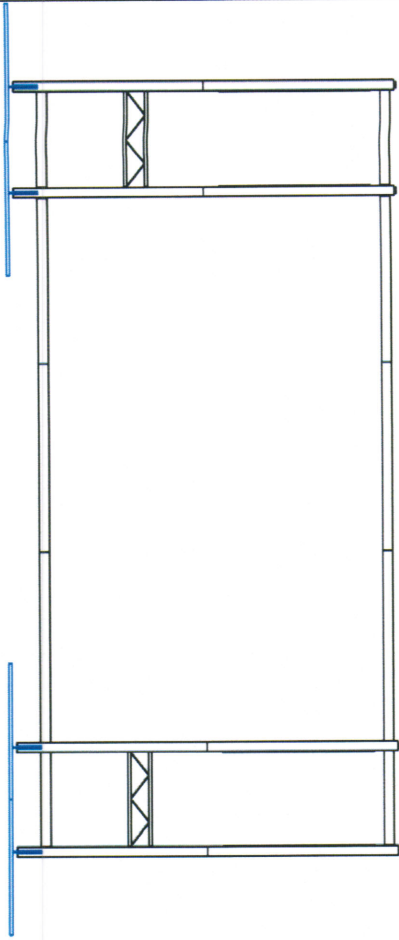
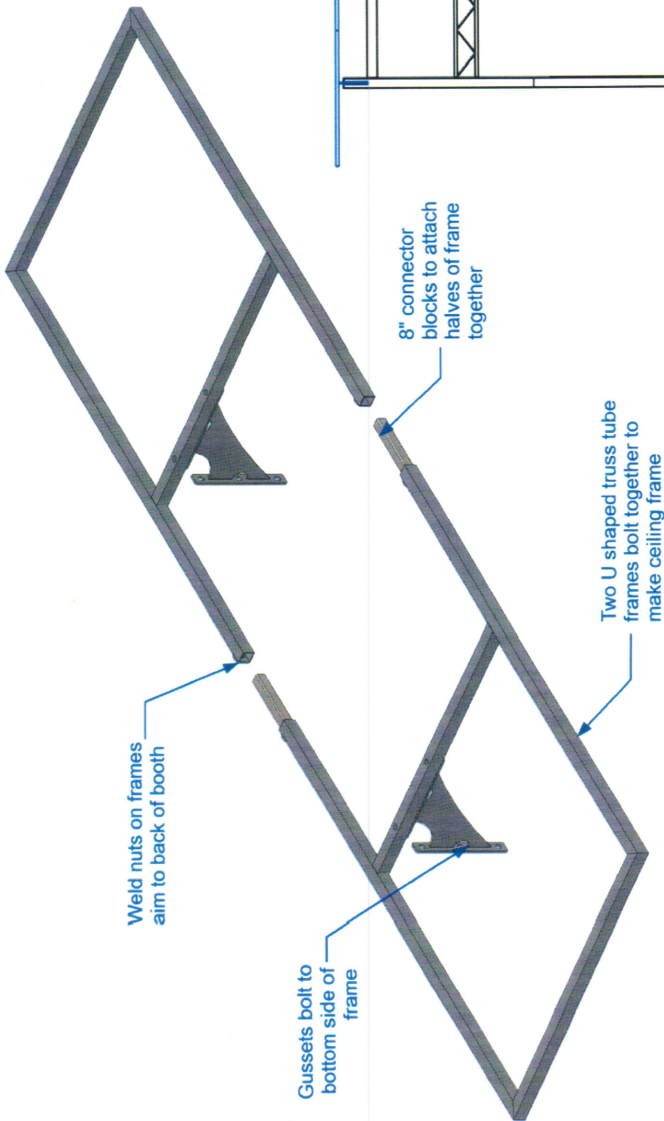


G

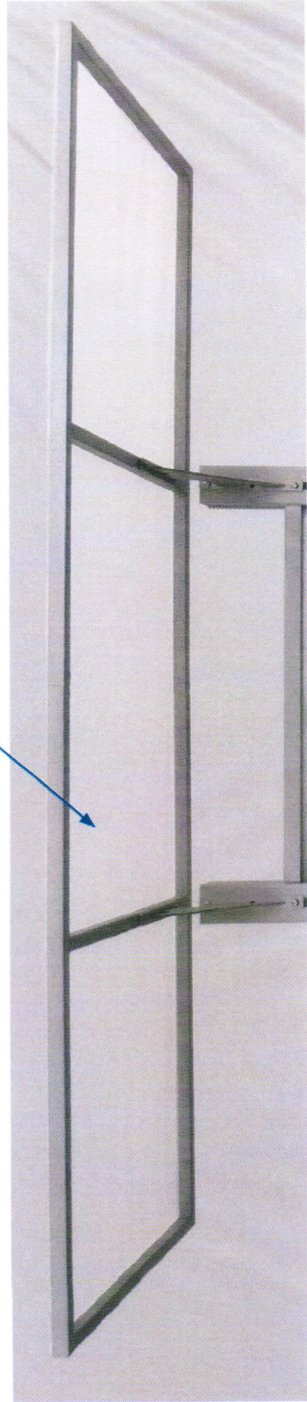
CENTER
SPAN

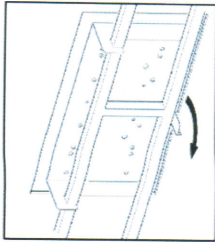
Mounted to back side

Mounted to back side

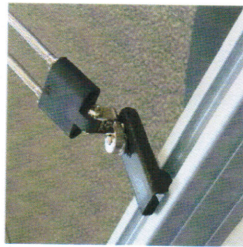


Velcro apply fabric to top of ceilings





MONITOR BRACKET

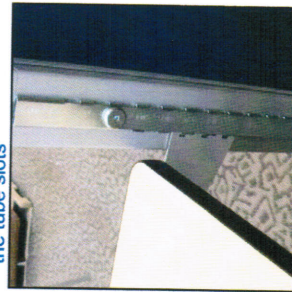
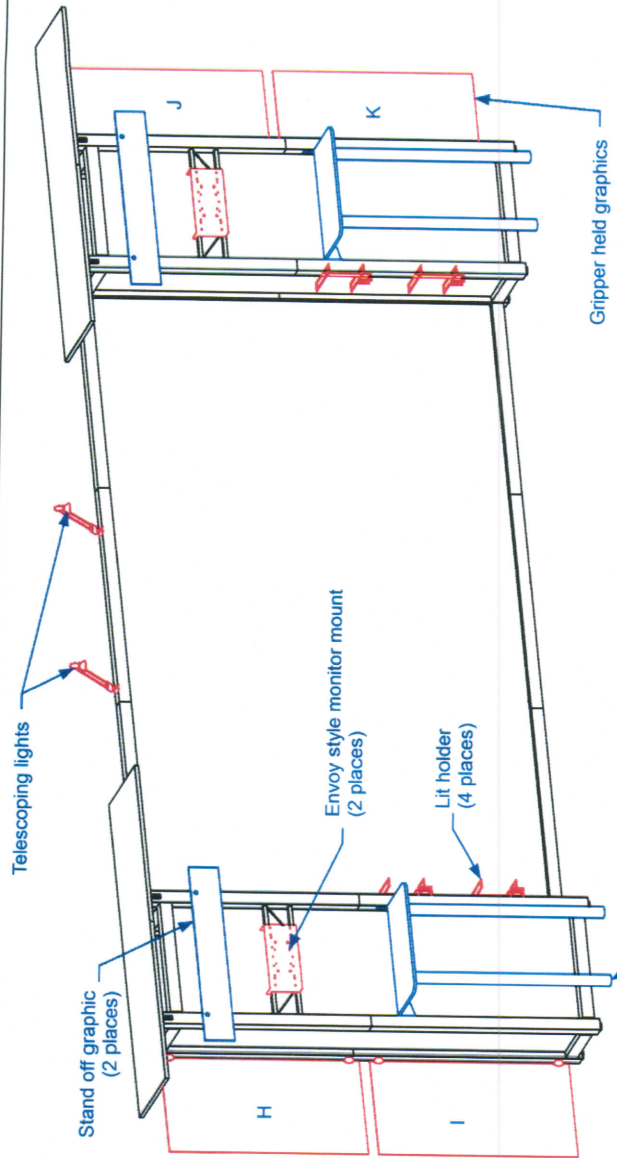


Telescoping lights

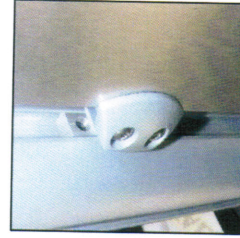


Stand off graphic

ASSEMBLY INSTRUCTIONS



Counters with pipe legs attach to shelf standards in the tube slots



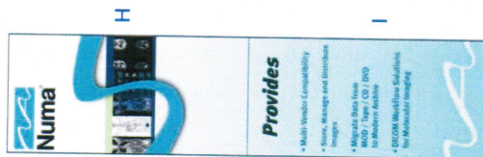
Gripper held graphics



J

K

Place the accessories on the booth as shown. Reference the general instructions found at the beginning of this booklet for assembly help.



H

I

