NEXUS21

TECHNOLOGY IN MOTION

Model L-75ix
Installation Manual

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Safety Information

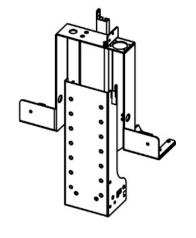
WARNINGS:

- 1. Do not use this product for any application other than those specified by Nexus 21.
- 2. Do not exceed the weight capacity. This can result in serious personal injury or damage to the equipment. It is the installer's responsibility to ensure that the total combined weight of all attached components does not exceed that of the maximum figure stated.
- 3. Follow all technical specifications and instructions during the installation.
- 4. Only use attachments/accessories specified by the manufacturer.
- 5. Close supervision is necessary when this system is being used by, or near, children, or disabled persons.
- 6. It is the responsibility of the installer to warn all potential users of the dangers of interfering with the mechanism during operation.
- 7. Read all technical instructions fully before installation and use. It is the installer's responsibility to ensure that all documentation is passed on the users and read fully before operation.
- 8. Failure to provide adequate structural strengthening, prior to installation can result in serious personal injury or damage to the equipment. It is the installer's responsibility to ensure the structure to which the Lift System is affixed can support four times the weight of the system.
- 9. Risk of electric shock. Do not attempt to open the Control Box.
- 10. To reduce risk of fire or electric shock, do not expose parts to rain or other liquids.
- 11. Protect the power cord from being walked on or pinched.
- 12. Keep all documentation.
- 13. Heed all warnings.
- 14. Clean only with a dry cloth.
- 15. Refer all service questions to Nexus 21 if the system does not operate normally.

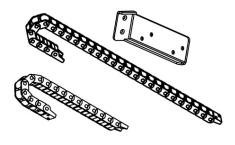
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Nexus 21 intends to make this and all documentation as accurate as possible. However, Nexus 21 makes no claim that the information contained herein covers all details, conditions or variations, nor does it provide for every possible contingency in connection with the installation or use of this product. The information contained in this document is subject to change without prior notice or obligation of any kind. Nexus 21 makes no representation of warranty, expressed or implied, regarding the information contained herein. Nexus 21 assumes no responsibility for accuracy, completeness or sufficiency of the information contained in this document.

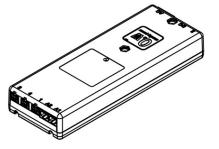
Parts List:



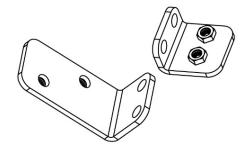
Lower Assembly



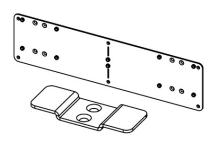
Upper Cable Track Bracket
Upper Cable Track – Long
Upper Cable Track – Short



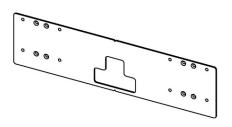
Control Box



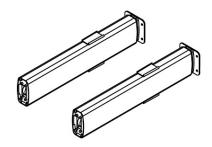
Lower Cable Track Brackets



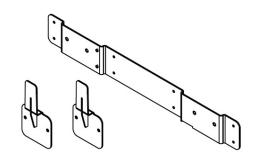
Above Enclosure Bracket
Install Hook



Top Beam Support

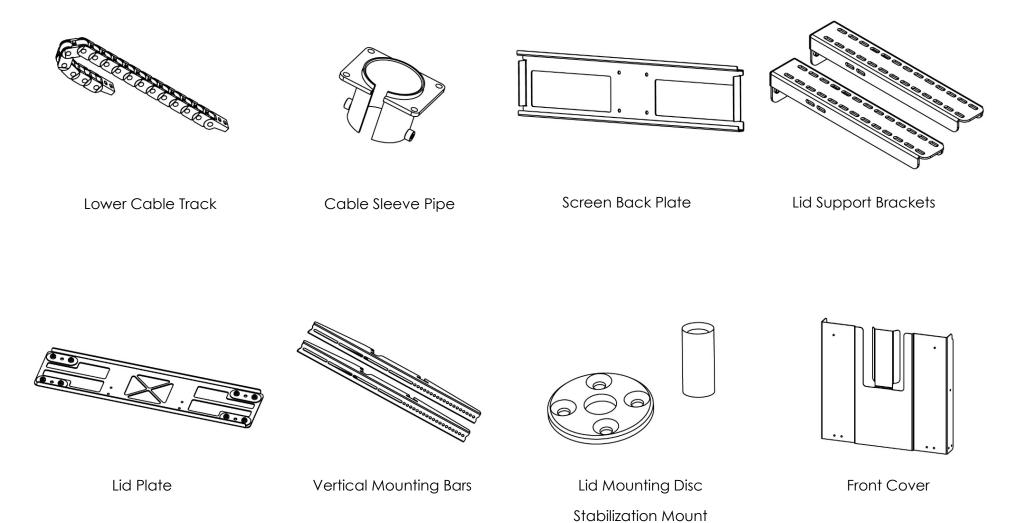


Column Assemblies



Rear Support Bracket
Bayonet Sleeves

Parts List Continued:



Hardware List:

Cable Management Hardware Pack:

- (12) BHMS M5 X 10mm
- (4) SHMS M4 x 8mm
- (2) FHMS M3 x 10mm
- (2) FHWS #10 x 1-3/4"
- (2) Velcro Hook & Loop Strips
- (4) Wire Clips
- (4) Zip Ties

Tools:

- (1) -- 7/32" hex key
- (1) -- 4mm hex key
- (1) -- 3mm hex key
- (1) -- 2.5mm hex keys
- (1) -- 2mm hex key

Lid Installation Hardware:

- (16) #6 x 1/2" FHWS Screws
- (4) SHMS 5/16"-18 X 1-1/2
- (4) SHMS 5/16"-18 X 3/8"
- (4) 2.5 LG Spring
- (4) Lid Mounting Disc
- (4) Stabilization Mount
- (4) Dowel Centers

TV Mounting Hardware:

- (4) BHMS 3/8"-16 x 3/4"
- (6) BHMS M6 X 10mm
- (4) FHMS M6 x 12mm
- (1) Large Assorted Hardware Pack

Front Cover Hardware:

• (2) – BHMS M6 x 10mm

Upper Assembly Hardware:

- (8) FHMS M6 x 30mm
- (8) FHMS M6 x 16mm
- (4) BHMS M6 X 10mm
- (4) BHMS M5 X 10mm
- (8) THWS #10 x 3/4"
- (2) FHWS #8 x 3/4"

Pre-Installation Hardware:

- (2) FHMS M6 x 30mm
- (6) FHWS #8 x 3/4"

Lower Assembly Hardware:

• (8) – FHMS M6 x 16mm

Before you Begin:

Important: Consult a licensed General Contractor for questions that pertain to construction, weight and materials to be used for your enclosure. Refer to the L-75ix Dimensional Drawing to determine interior sizing of your enclosure.

Minimum Lift System Extension: 48" [122 cm]

Maximum Lift System Extension: 52" [132 cm]

Maximum Screen Size: 75"

Maximum Lift System Weight Capacity: 100 lbs [45.4 kg] (TV plus Lid)

Maximum Motorized Swivel: Up to 180° in either direction

Support Info

Mon – Thu: 7 AM to 4 PM MST

Fri: 7 AM to 2:30 PM MST

Sat & Sun: Closed

Ph: 480 - 306 - 5462

Email: support@nexus21.com

Office Info

16121 N 78th St

Scottsdale, AZ 85260

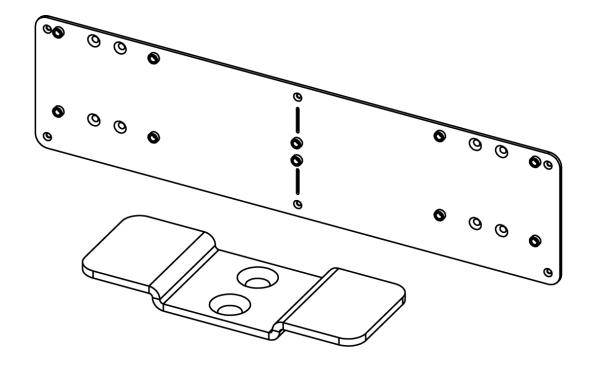
Ph: 480 - 951- 6885

Website: www.nexus21.com

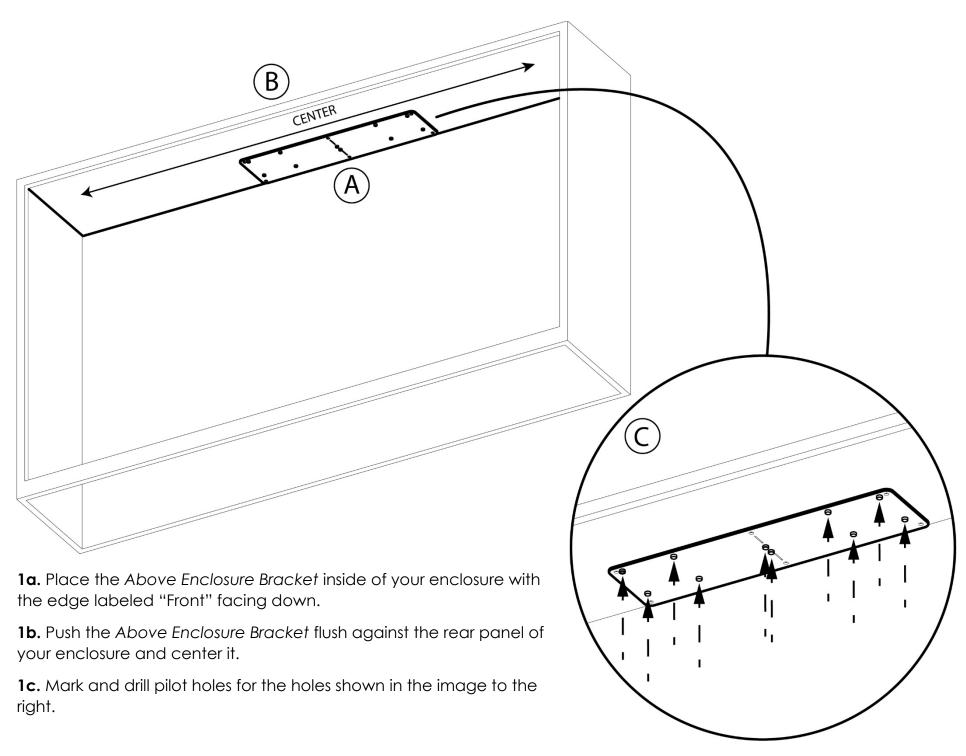
Email: info@nexus21.com

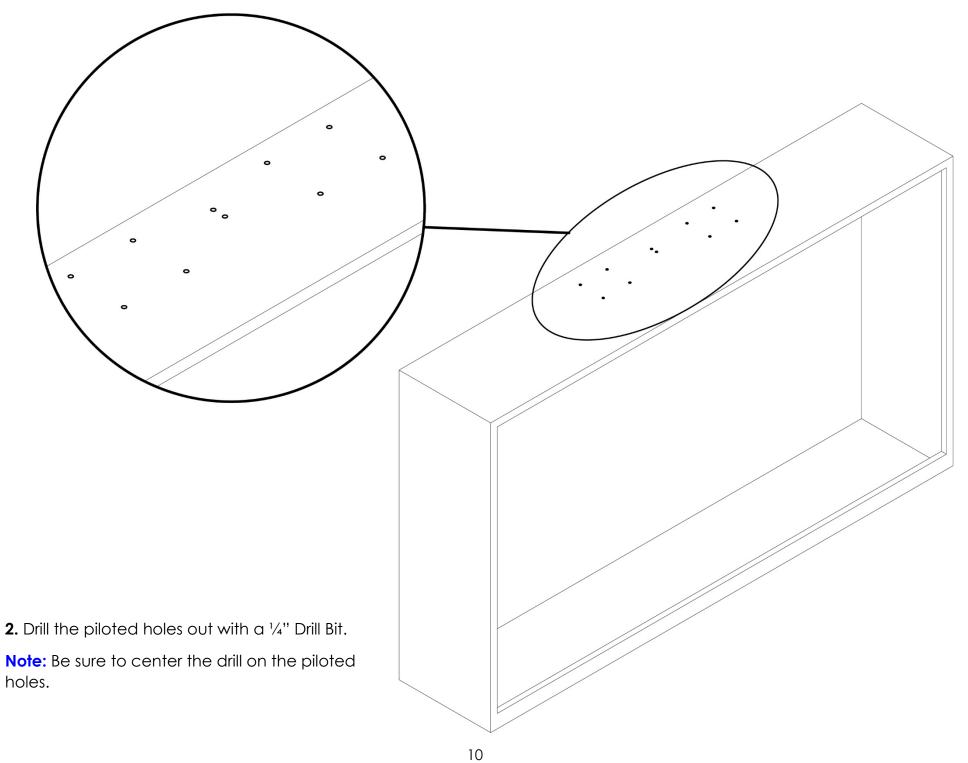
Pre-Installation

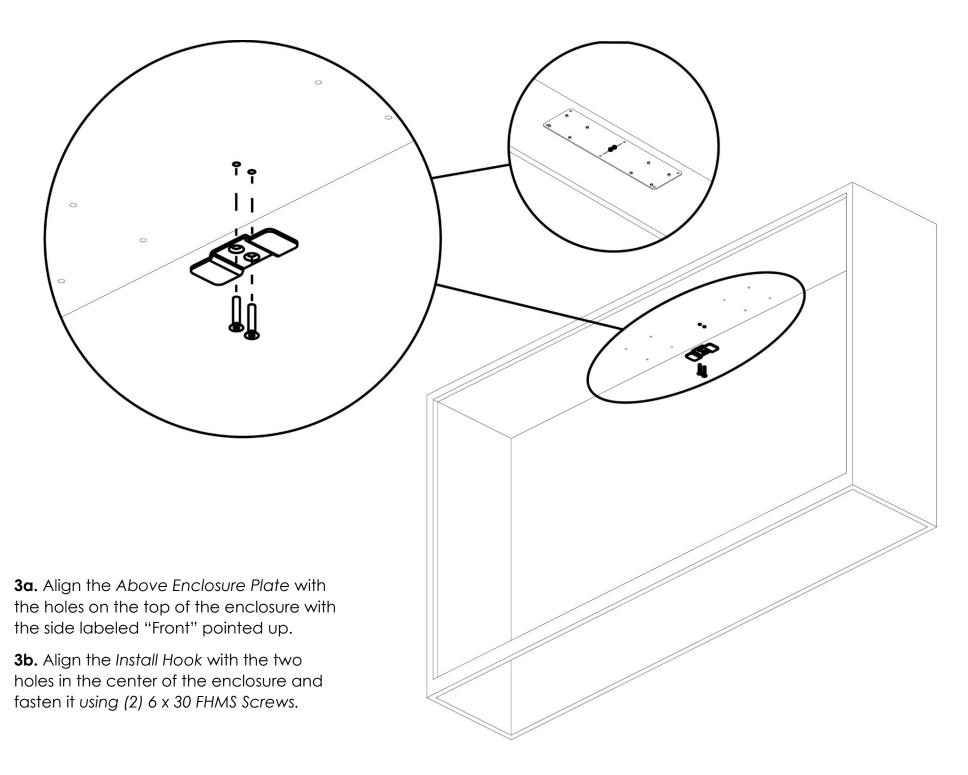
Parts List:

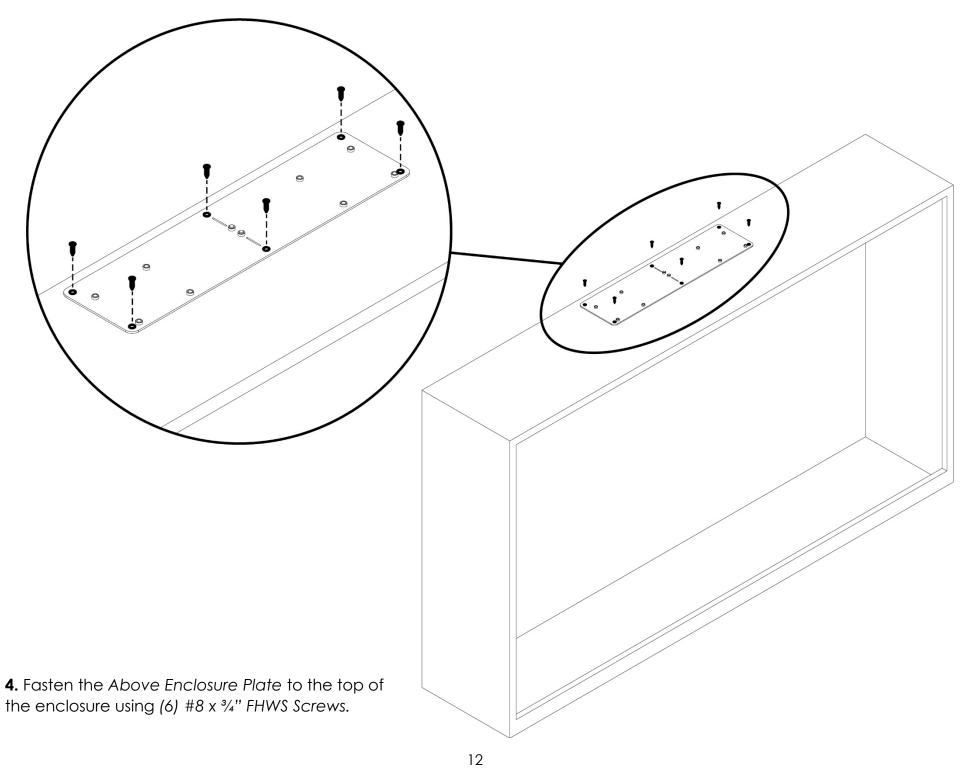


- Above Enclosure Plate
- Install Hook
- Pre-Installation Hardware Pack
 - o (2) FHMS M6 x 30mm
 - o (6) FHWS #8 x 3/4"



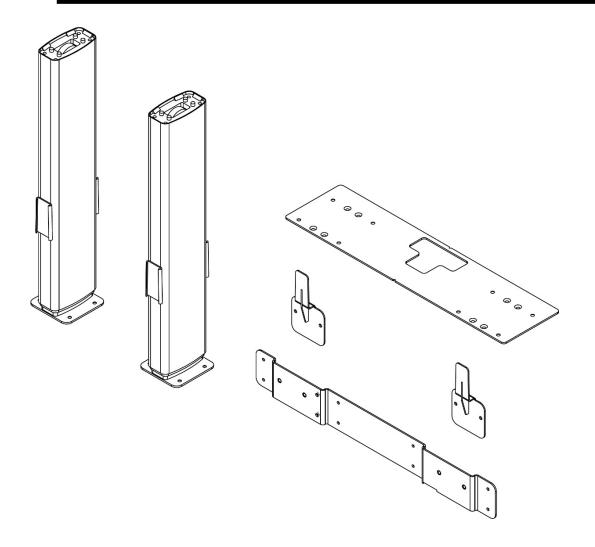




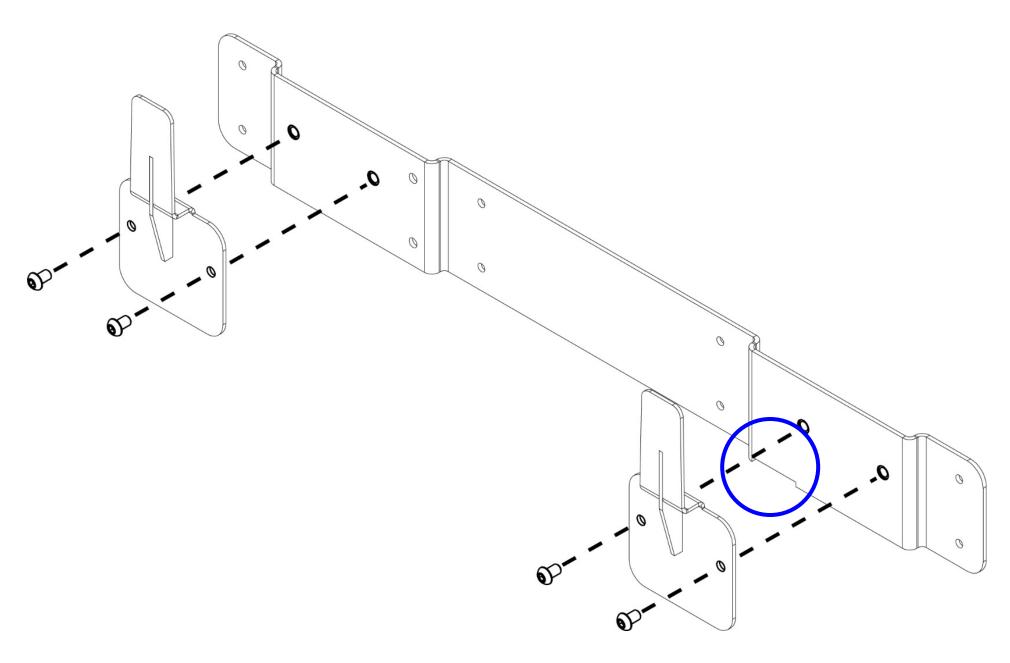


Upper Assembly

Parts List:

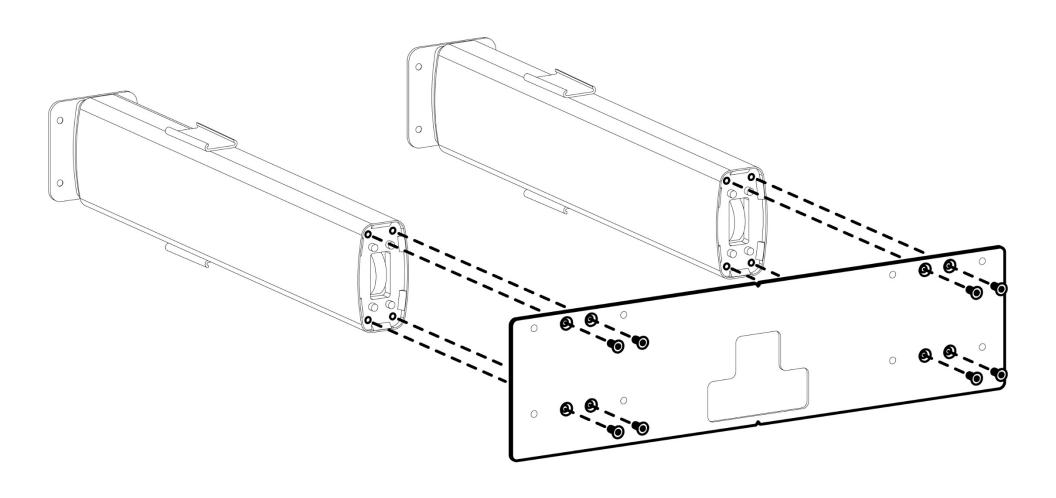


- (2) Column Assemblies
- (2) Bayonet Sleeves
- Rear Support Bracket
- Top Beam Support
- Upper Assembly Hardware
 - o (8) FHMS M6 x 16mm
 - o (4) BHMS M6 X 10mm

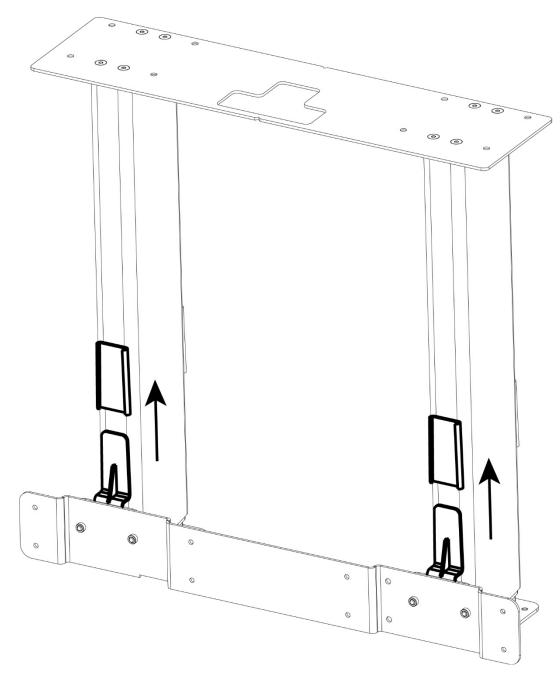


5. Fasten each Bayonet Sleeve to the Rear Support Bracket using (4) 6 x 10 BHMS Screws.

Note: Use the Notch circled in the image above to ensure proper orientation.



6. Fasten the Top Beam Support to the top of the Column Assemblies using (8) 6 x 16 FHMS Screws.

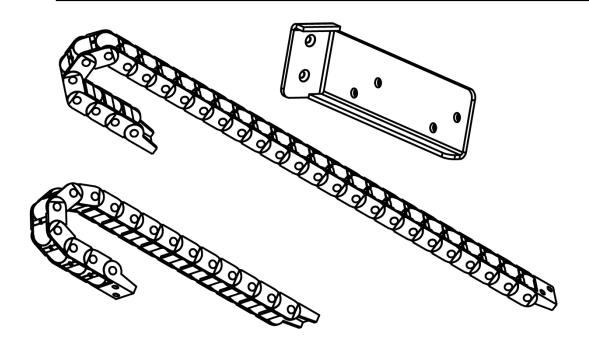


7. Slide and tap the Rear Support Assembly up into the metal sleeves on the Column Assemblies.

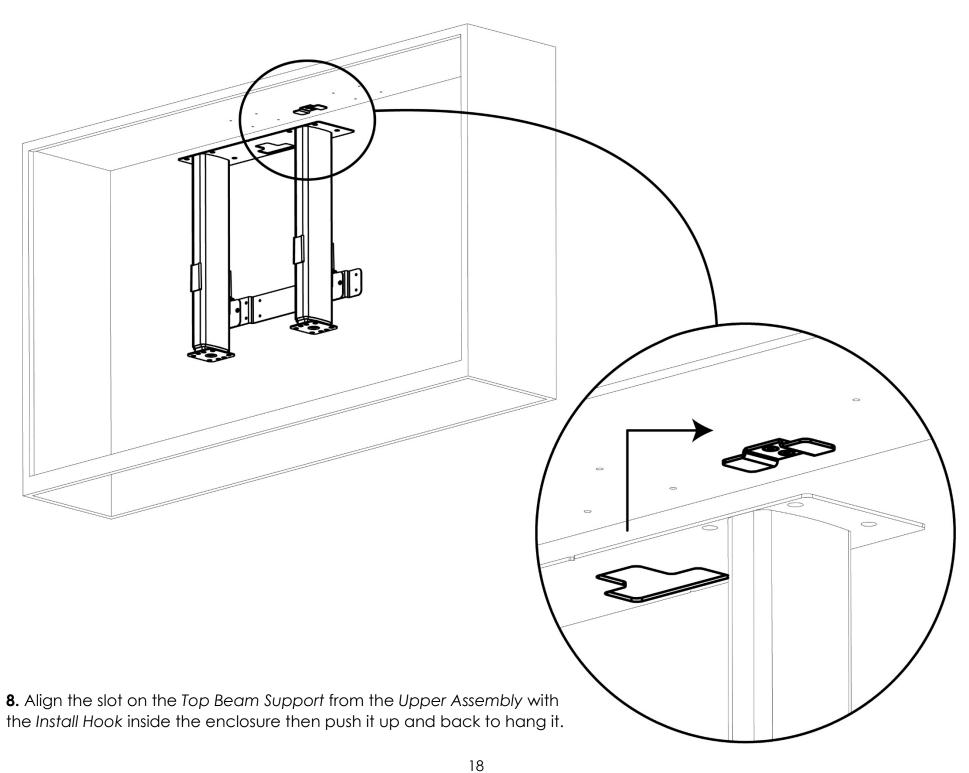
Note: Use the picture above as a reference for proper orientation.

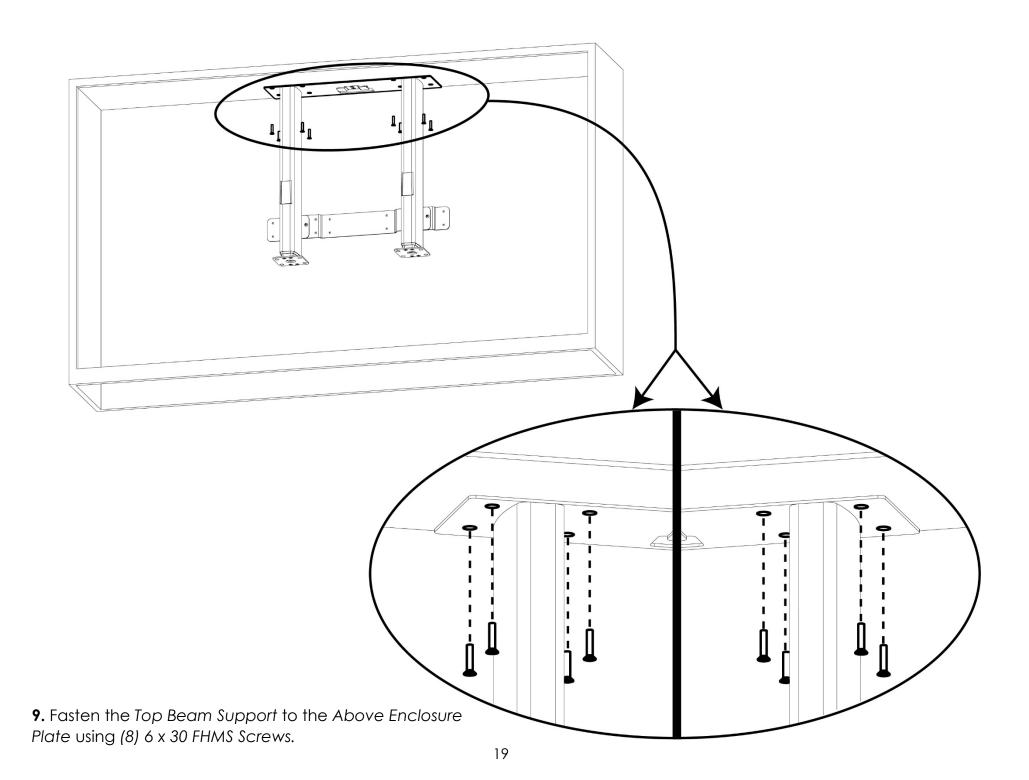
Upper Assembly Installation

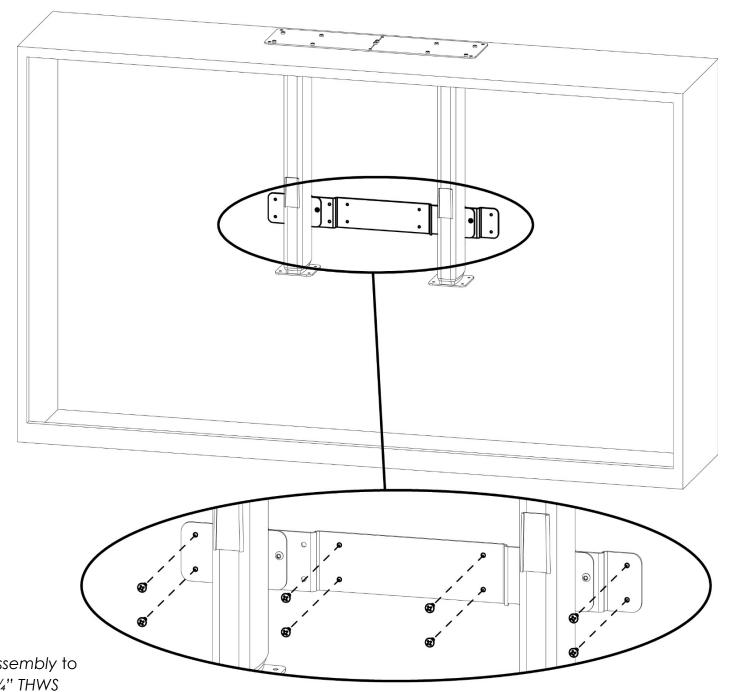
Parts List:



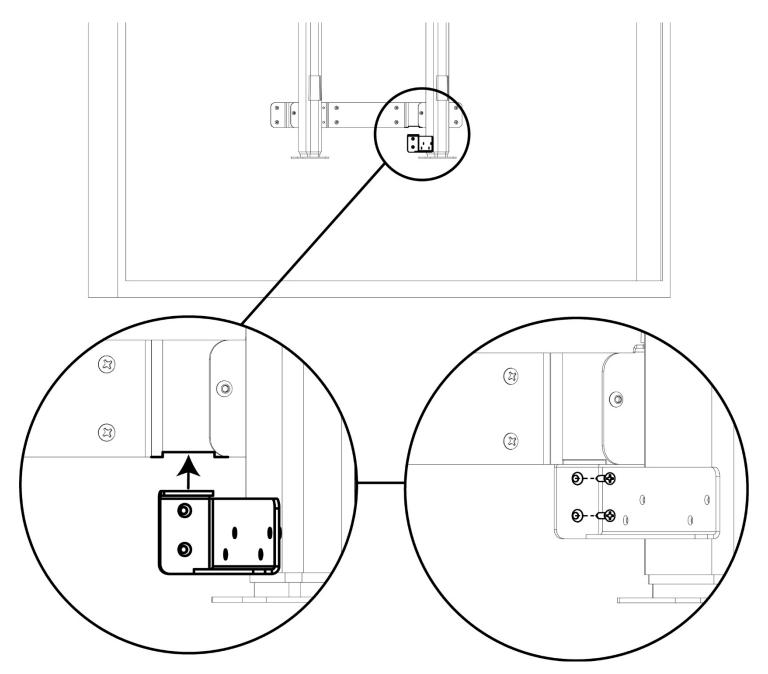
- Upper Cable Track Bracket
- Upper Cable Track Long
- Upper Cable Track Short
- (4) 4.5m Motor Cables
- Swivel Cutoff Cable
- Upper Assembly Hardware
 - o (8) FHMS M6 x 30mm
 - o (4) BHMS M5 X 10mm
 - o (8) THWS #10 x 3/4"
 - o (2) FHWS #8 x 3/4"





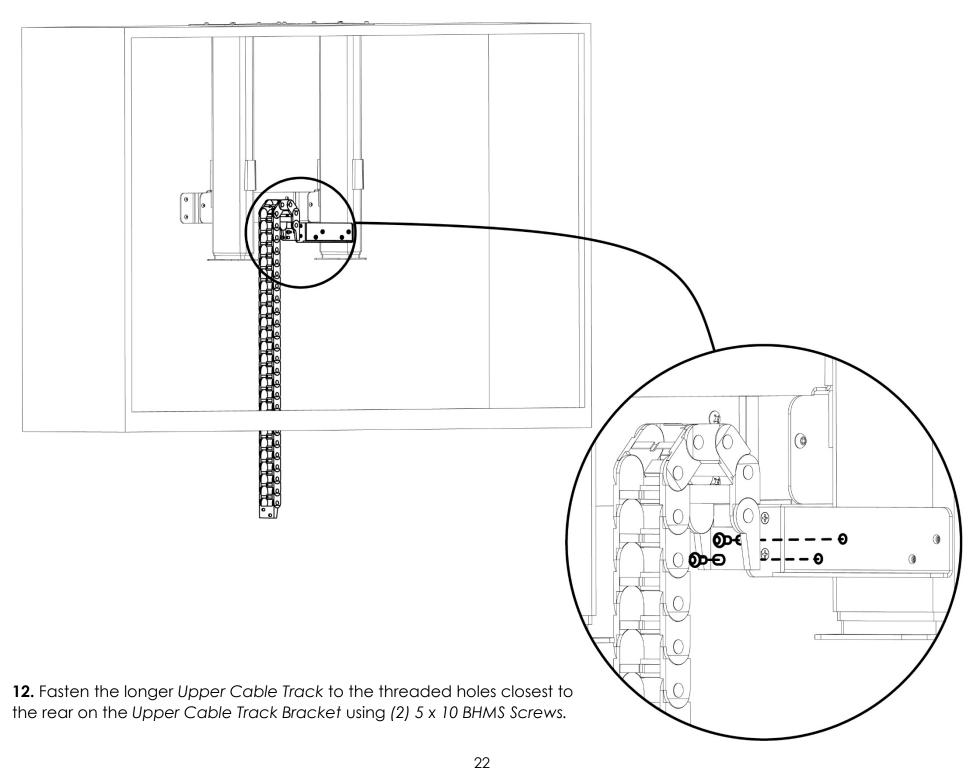


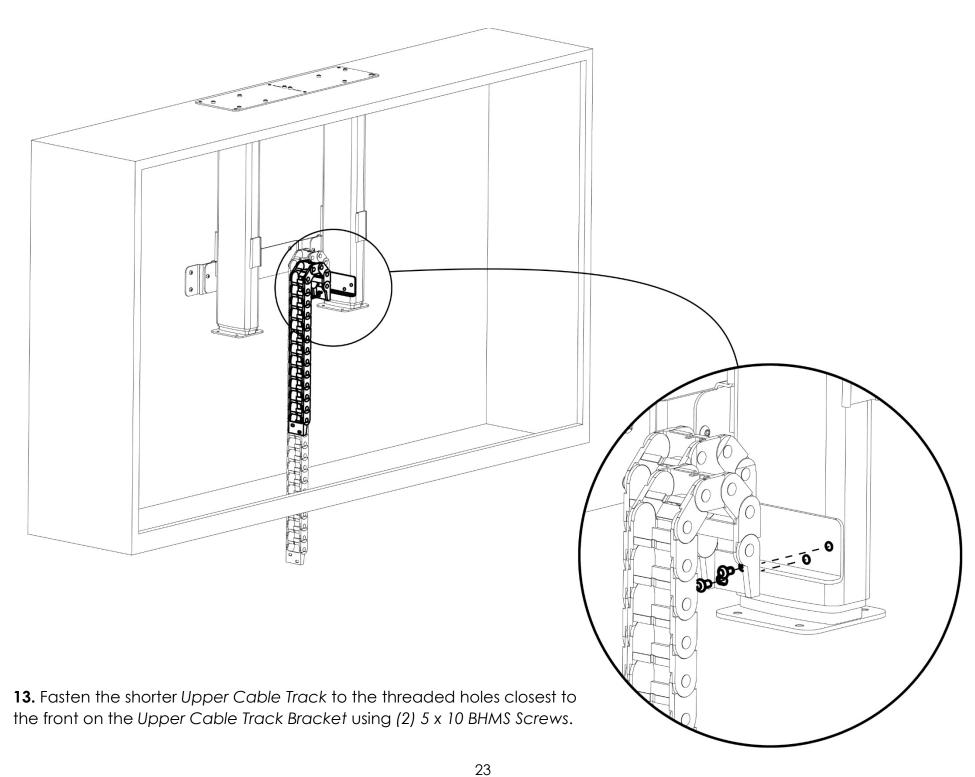
10. Fasten the Rear Support Assembly to the enclosure using (8) #10 x 3/4" THWS Screws.

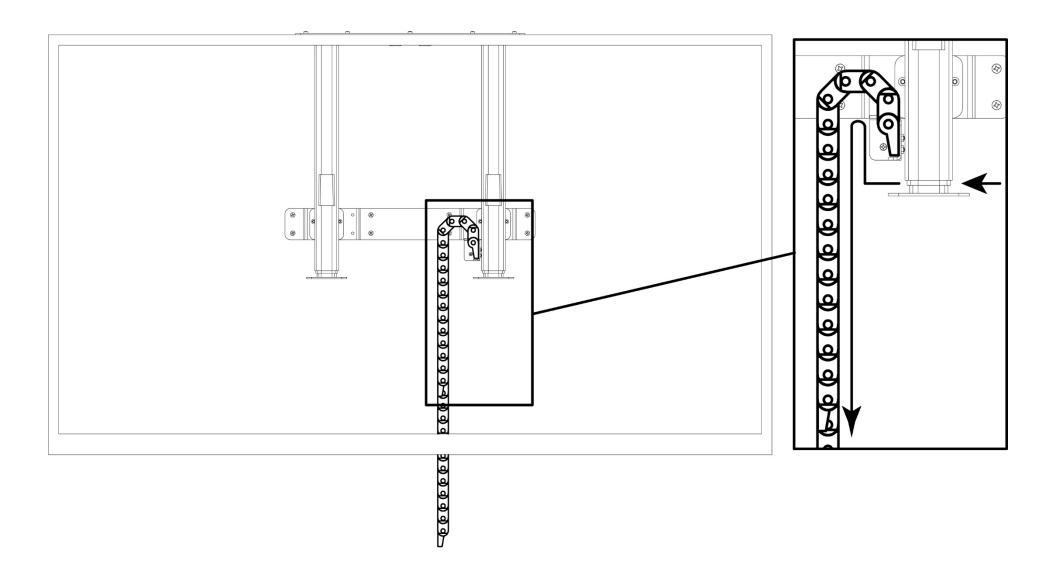


11. Fasten the Upper Cable Track Bracket within the notch of the Rear Support Assembly using (2) #8 x 3/4" FHWS Screws.

Note: Ensure the top of the bracket is touching the Rear Support Assembly.





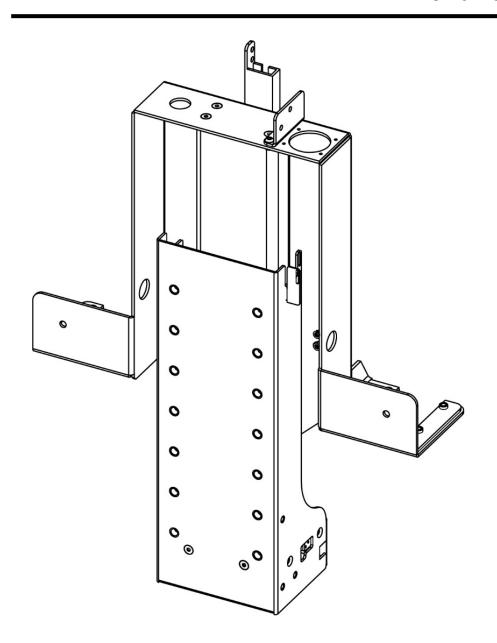


14. Starting from the right of the Upper Assembly, pass (3) 4.5m Motor Cables behind the right Column Assembly then through the longer Upper Cable Track.

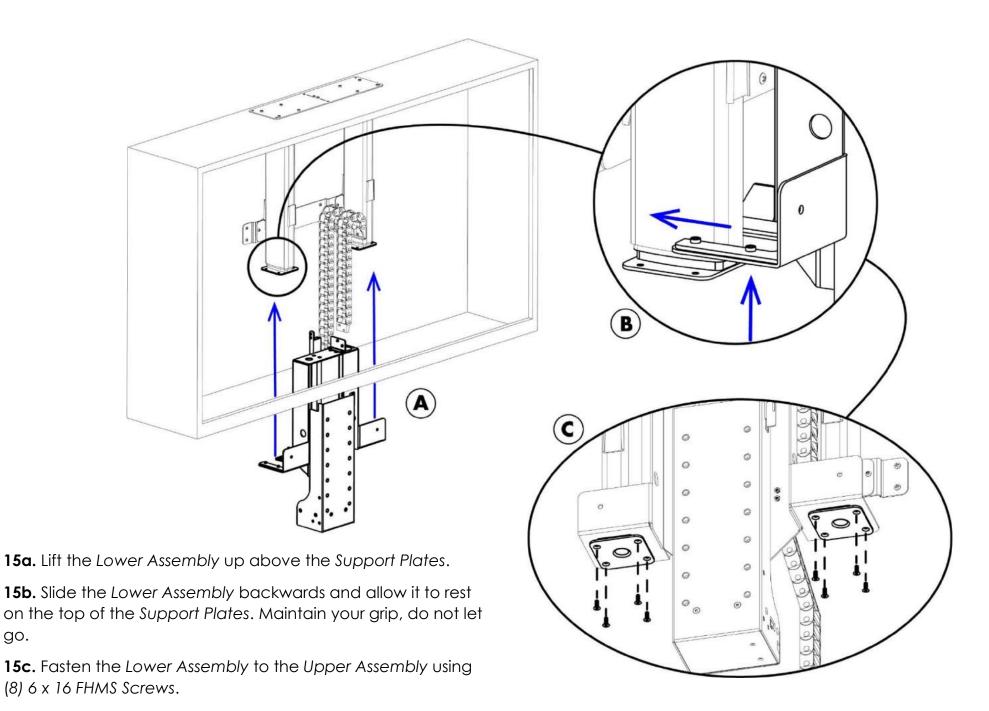
Repeat this same process for the shorter *Upper Cable Track*, using the (1) 4.5m Motor Cable labeled Swivel, the Swivel Cutoff Cable, and any other cables needed for your TV.

Lower Assembly Installation

Parts List:



- Lower Assembly
- Lower Assembly Hardware Pack
 - o (8) 6 x 16 FHMS Screws

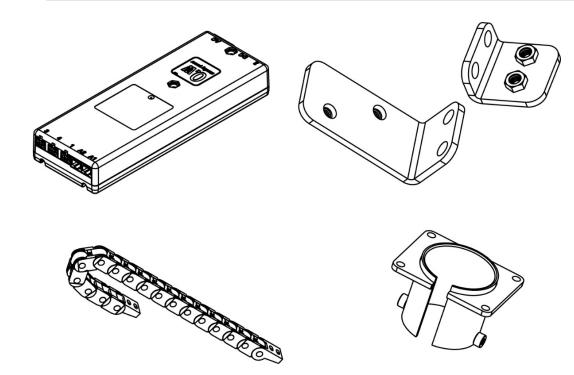


Important Note: Be careful not to damage the Swivel Cutoff Cable and Micro Switch while hanging the Lower Assembly.

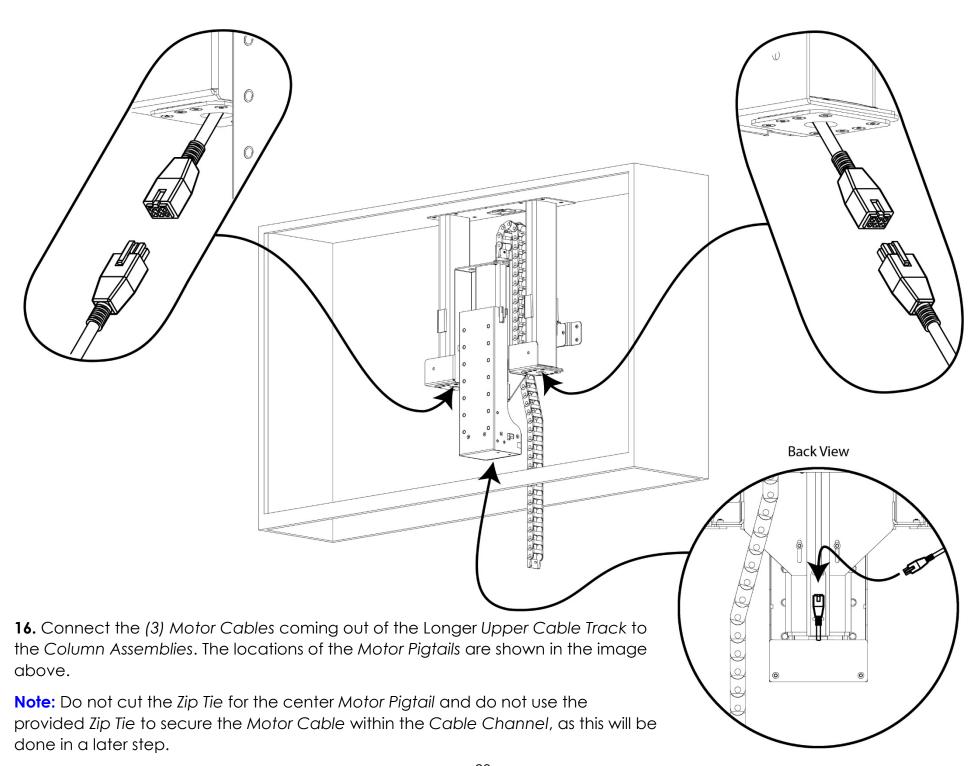
go.

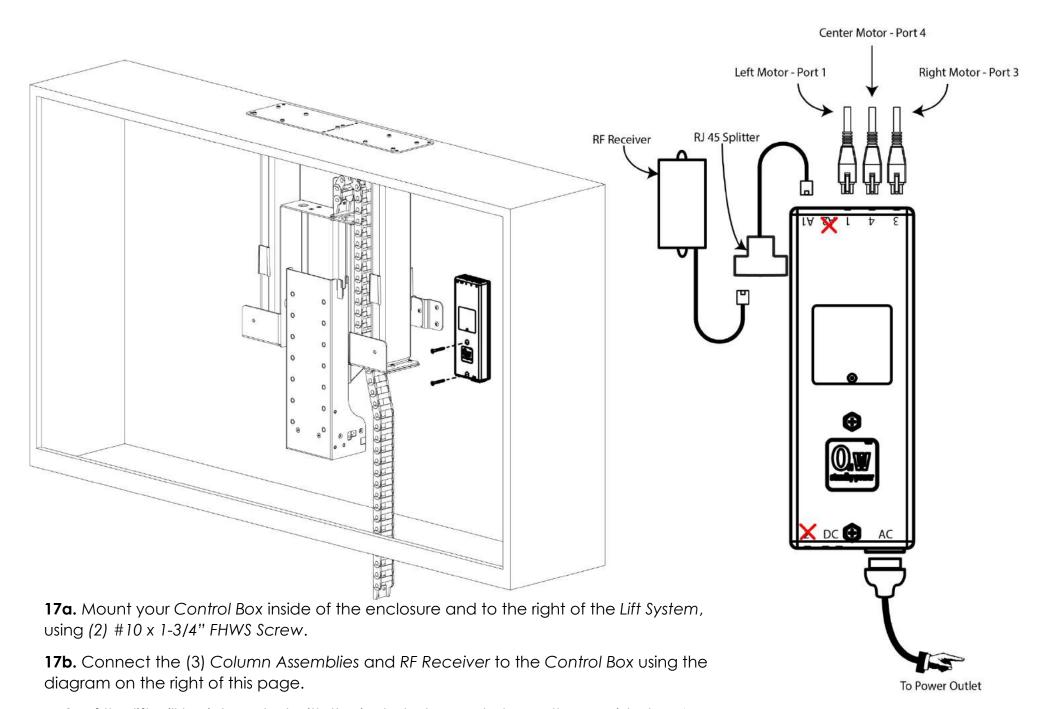
Cable Management & System Setup

Parts List:

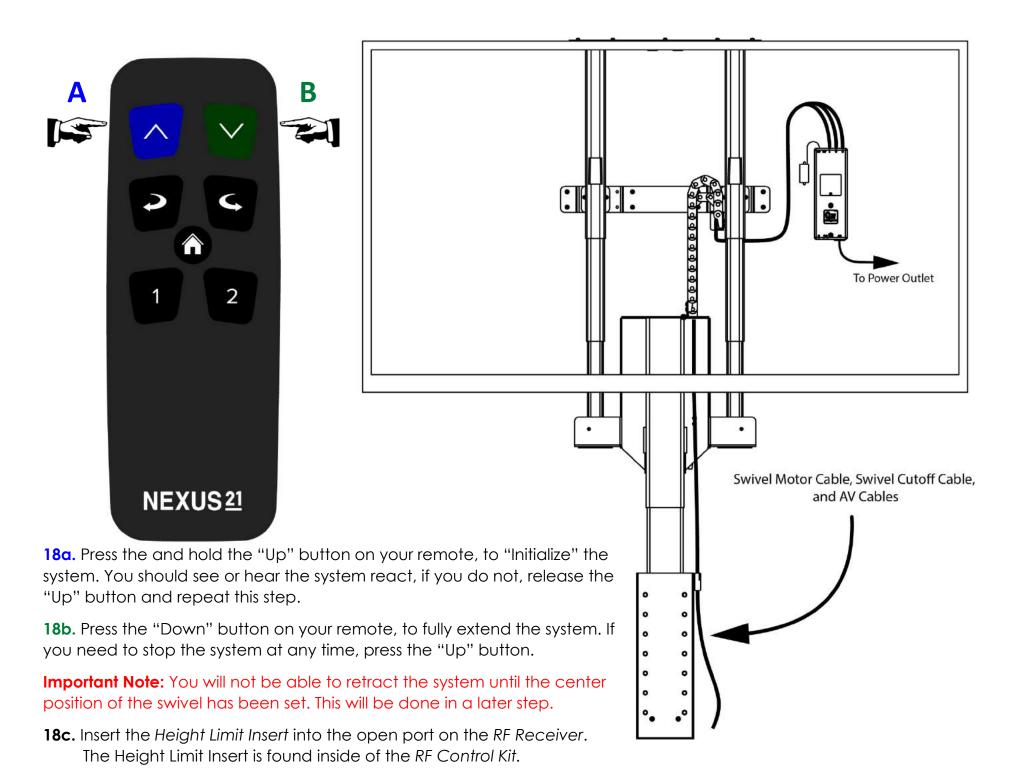


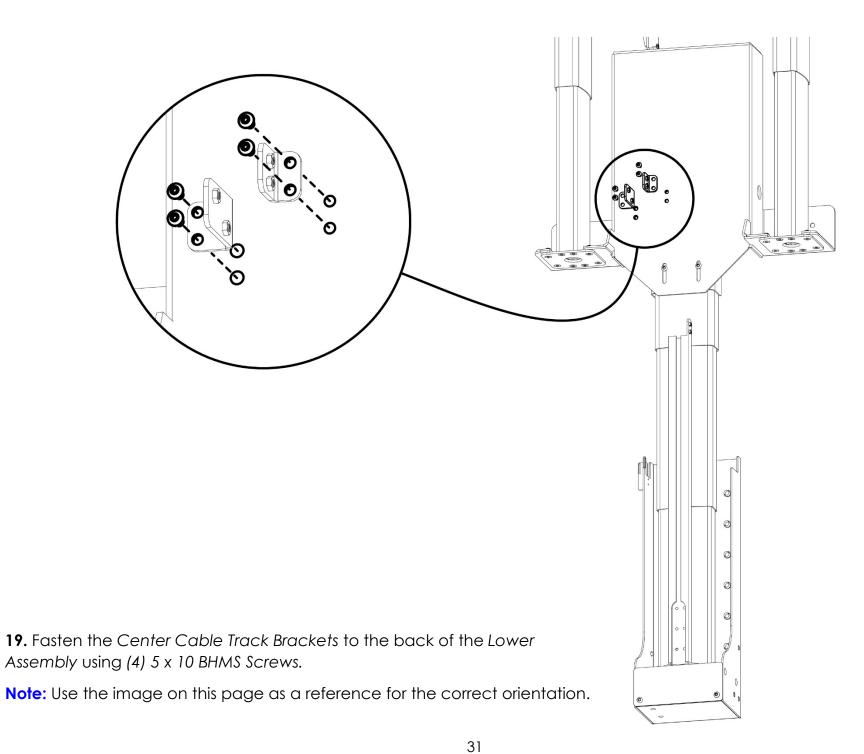
- (2) Center Cable Track Brackets
- Lower Cable Track
- Cable Sleeve Pipe
- Snakeskin
- Buckled Velcro Strap (Inside Small White Box)
- Control Box
- RF Control Kit
- Power Cable
- Cable Management Hardware Pack
 - o (12) BHMS M5 X 10mm
 - o (4) SHMS M4 x 8mm
 - o (2) FHMS M3 x 10mm
 - o (2) FHWS #10 x 1-3/4"
 - o (2) Velcro Hook & Loop Strips
 - o (4) Wire Clips
 - o (4) Zip Ties

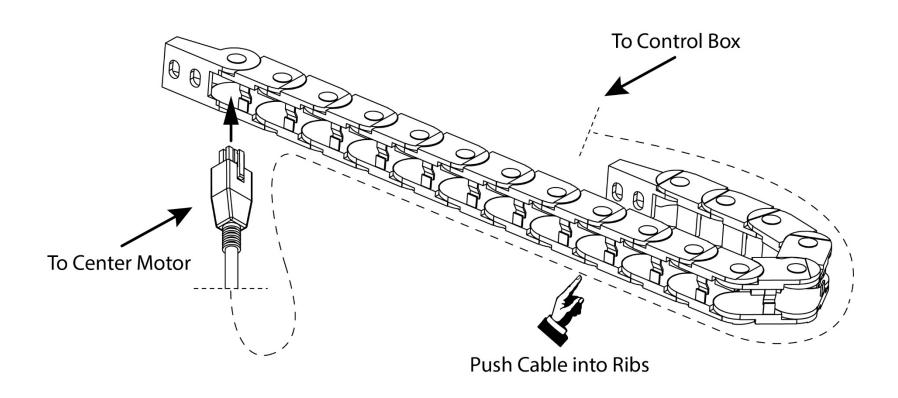




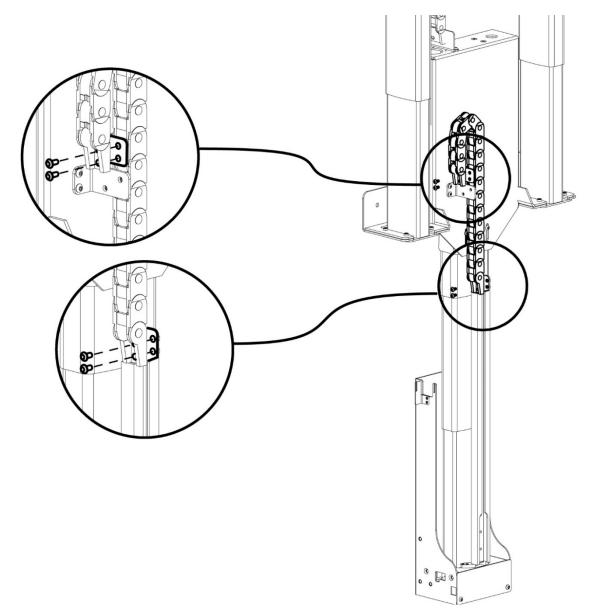
Note: If the lift will be integrated with the included *IP controls*, use the provided *RJ 45* Splitter included in the *RF Control Kit*.







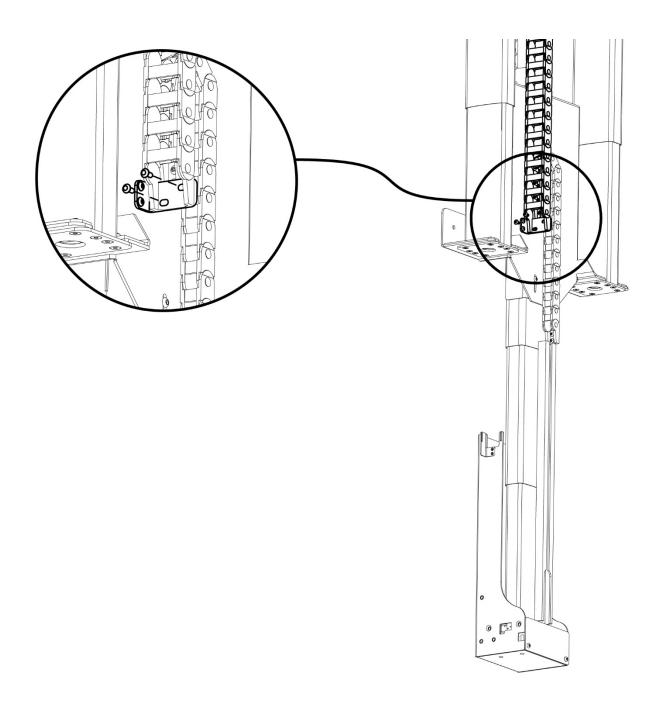
- **20a.** Disconnect the center Motor Cable from the Pigtail.
- 20b. Feed the end of the Motor Cable through the Rib shown in the image above.
- **20c.** Push the rest of the Motor Cable into the remaining Ribs of the Lower Cable Track.



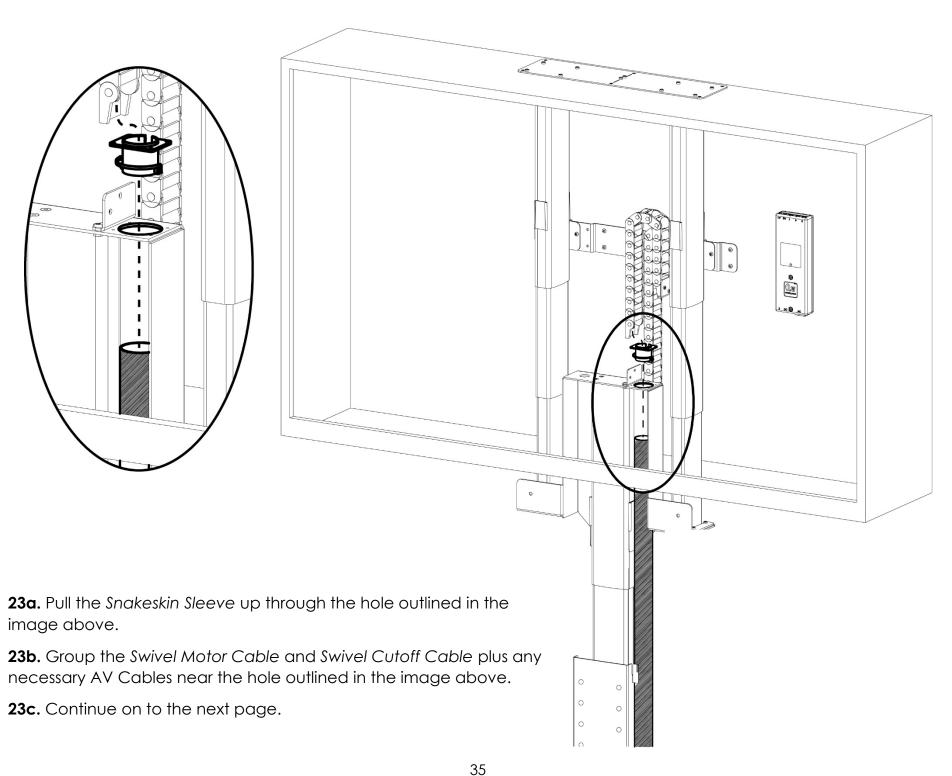
21a. Orient the Lower Cable Track to be as shown in the image above.

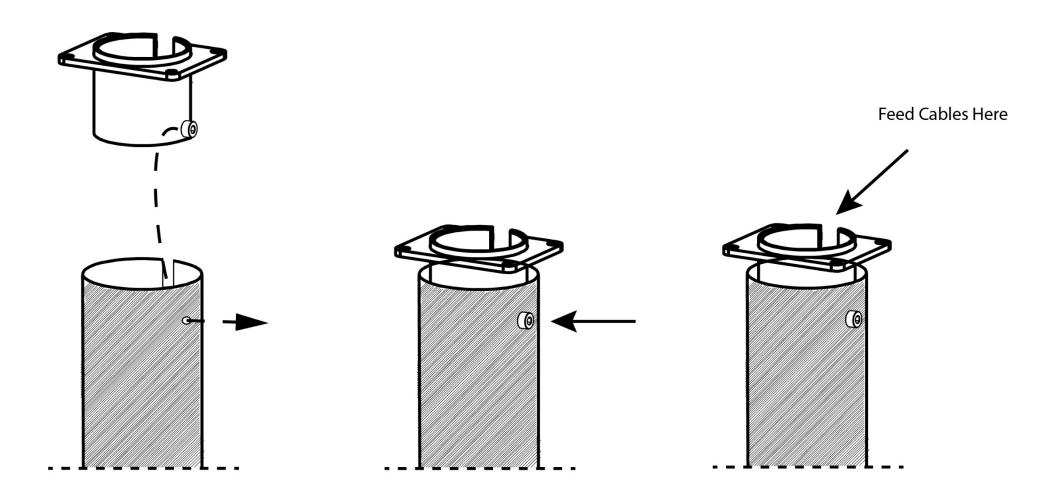
21b. Fasten the Lower Cable Track to the Center Cable Track Bracket and Center Cable Channel using (4) 5 x 10 BHMS Screws.

21c. Push the rest of the Motor Cable into the remaining Ribs of the Lower Cable Track.

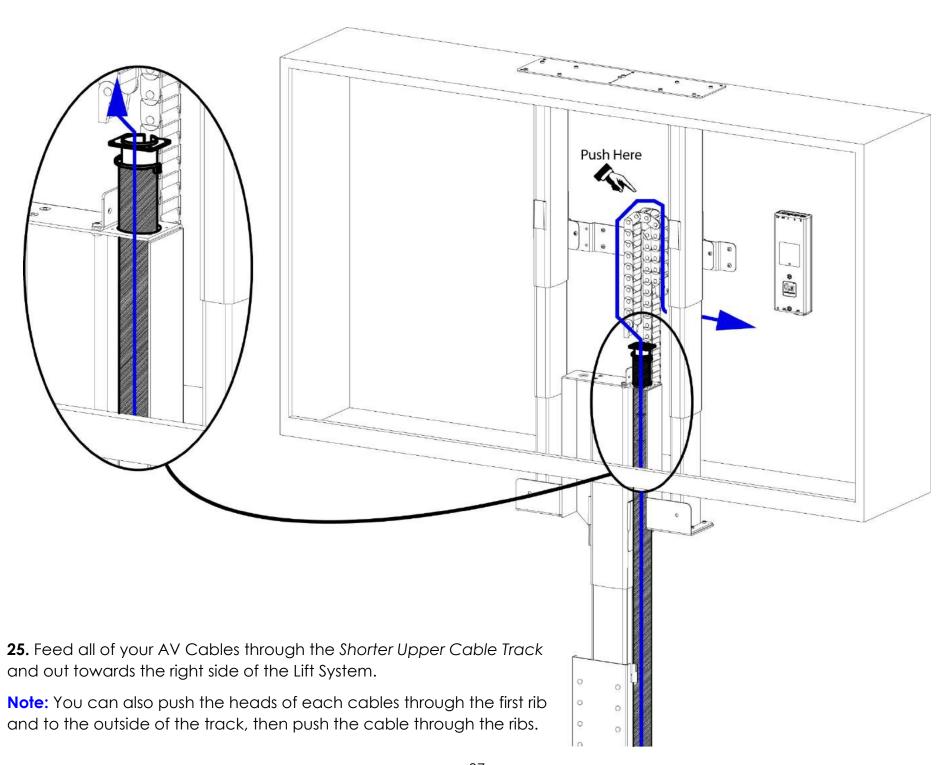


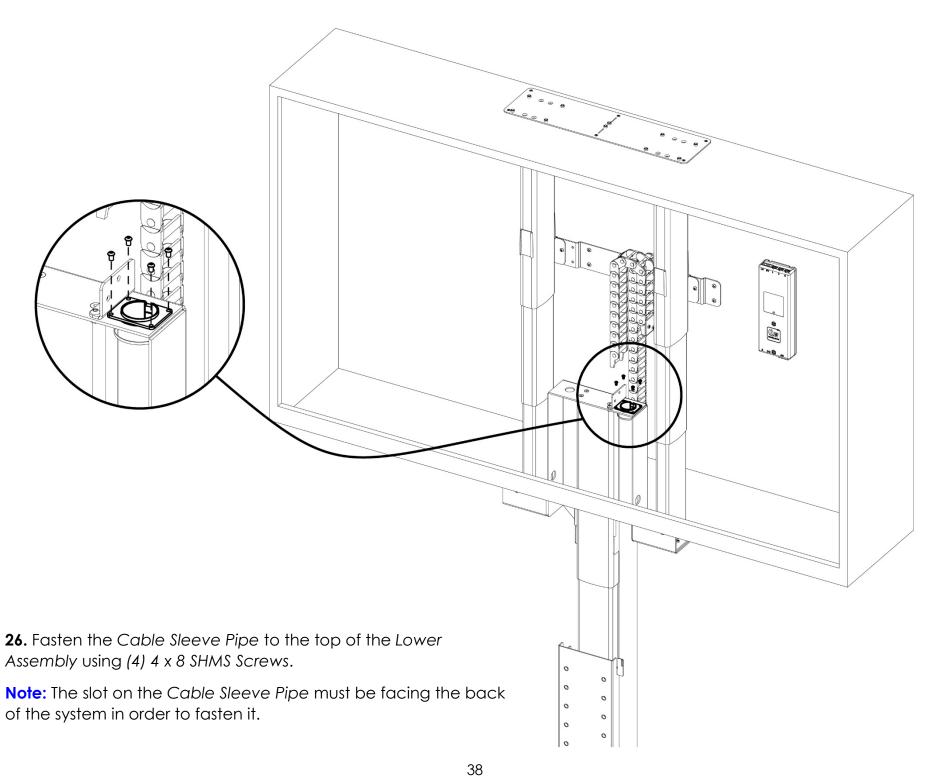
22. Fasten the longer Upper Cable Track to the other Center Cable Track Bracket using (2) 5×10 BHMS Screws.

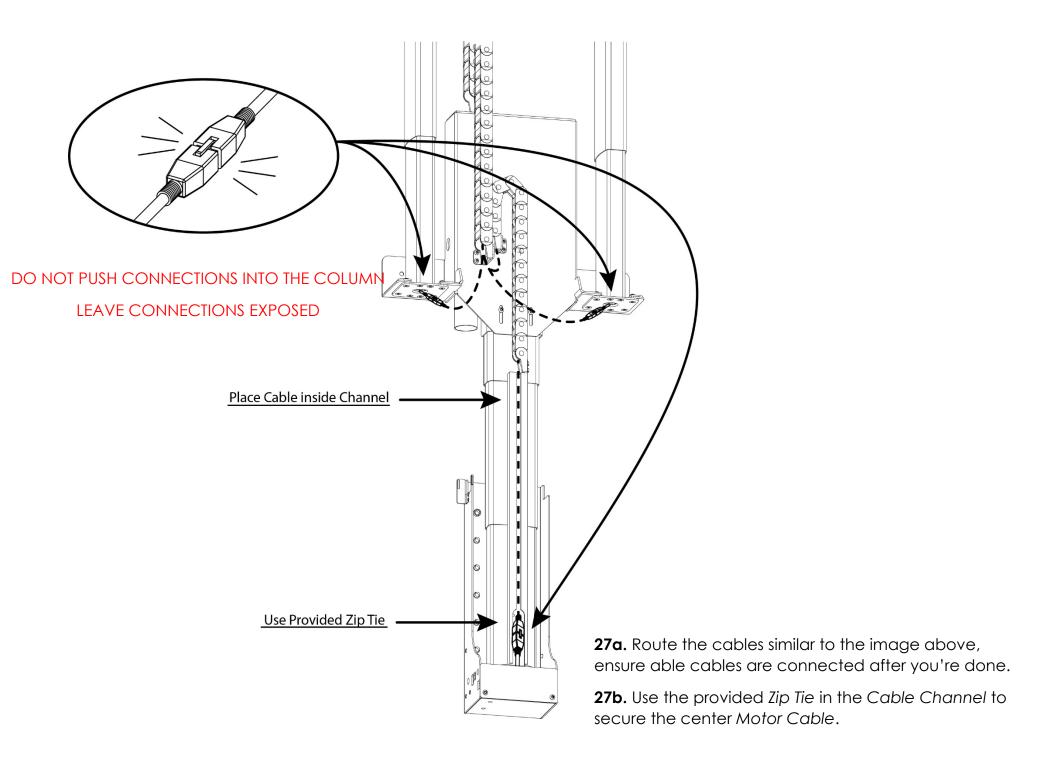


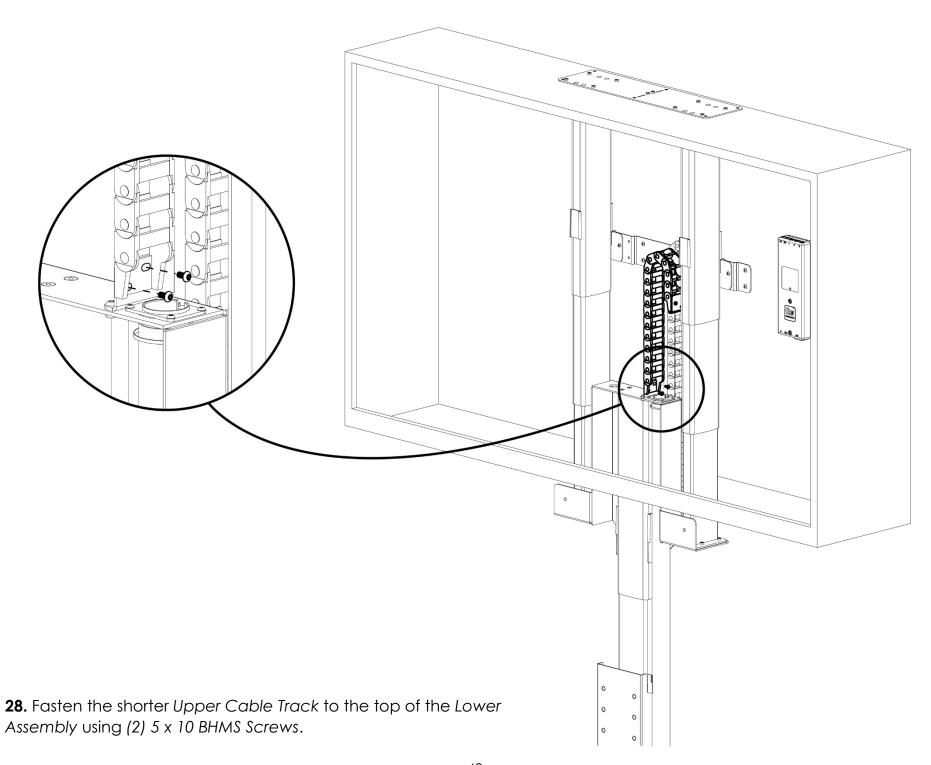


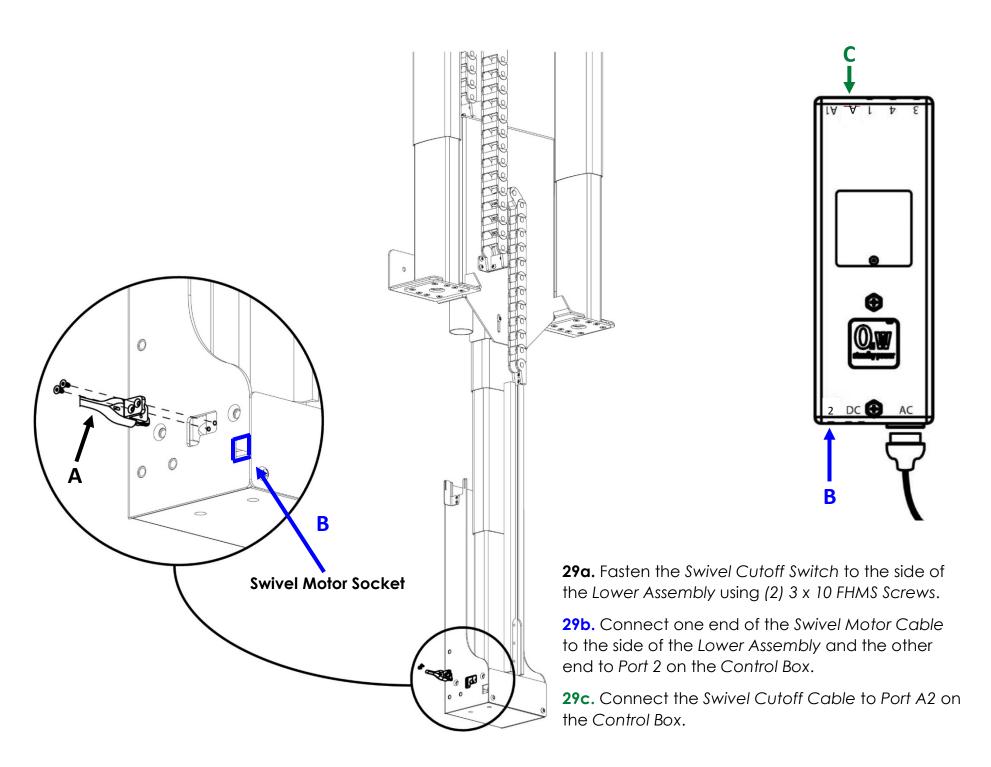
- 24a. Feed your cables through the slit in the Snakeskin Sleeve and slot in the Cable Sleeve Pipe.
- **24b.** Place the screw heads protruding from the Cable Sleeve Pipe through the holes on the Snakeskin Sleeve.
- 24a. Pass the Swivel Motor Cable and Swivel Cutoff Cable plus any necessary AV Cables through the slit on the Cable Sleeve Pipe

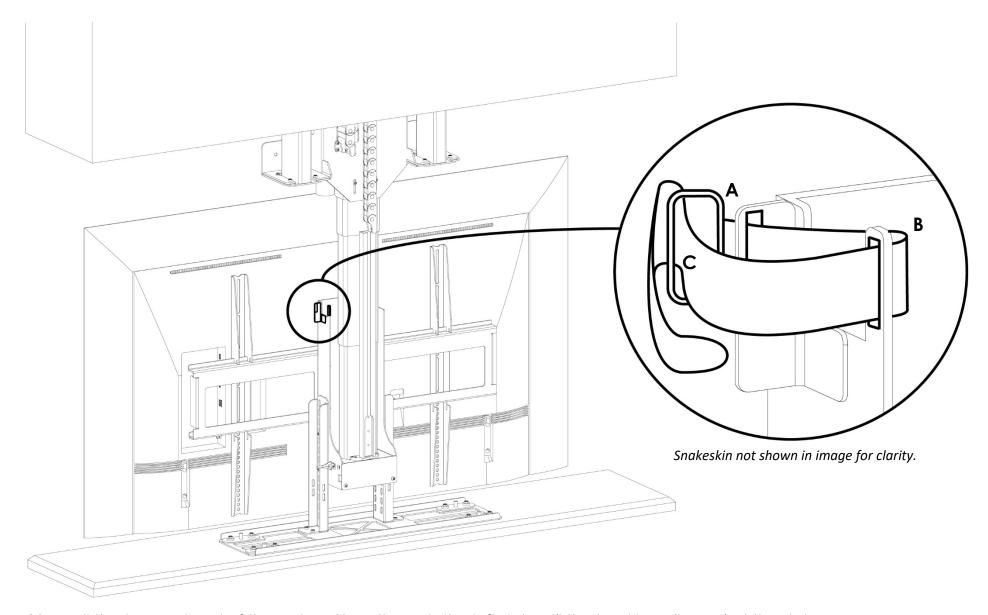






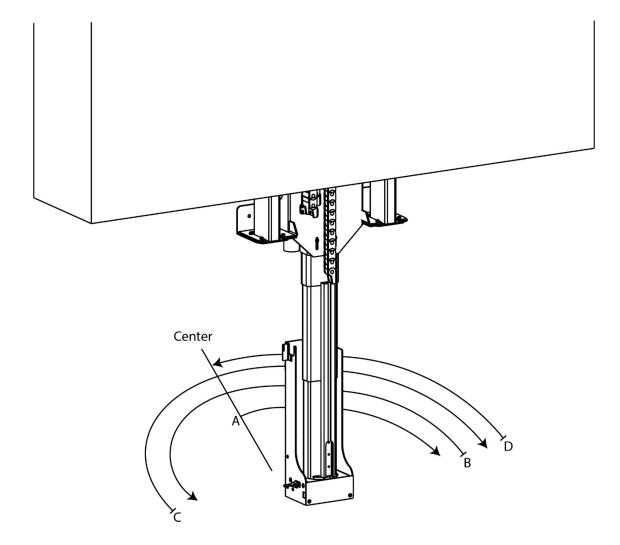






- **30a.** Pull the tapered end of the Velcro Strap through the left slot until the buckle pulls against the slot.
- **30b.** Pull the tapered end of the *Velcro Strap* though the right slot, leaving a slight amount of slack.
- **30c.** Pass the tapered end of the Velcro Strap through the Buckle and cinch it.

Note: Ensure the Velcro Strap is not too tight as it may cause the Snakeskin to get hung up during retraction.

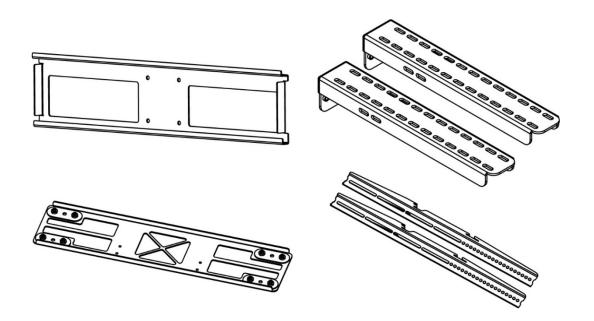


- **31a.** Use the "Left" button on the remote to rotate the Lower Assembly to the left, 45 degrees.
- **31b.** Use the "Right" button on the remote to rotate the Lower Assembly past center, and right 45 degrees.
- 31c. Press the "Left" button to rotate the Lower Assembly past center, and left 45 degrees
- **31c.** Press the "Right" button to rotate the Lower Assembly towards center, if the center position has been learned it will stop.

Note: If your system continues to rotate and does not stop at center, make sure the Swivel Cutoff Cable is connected to the Control Box and repeat these steps.

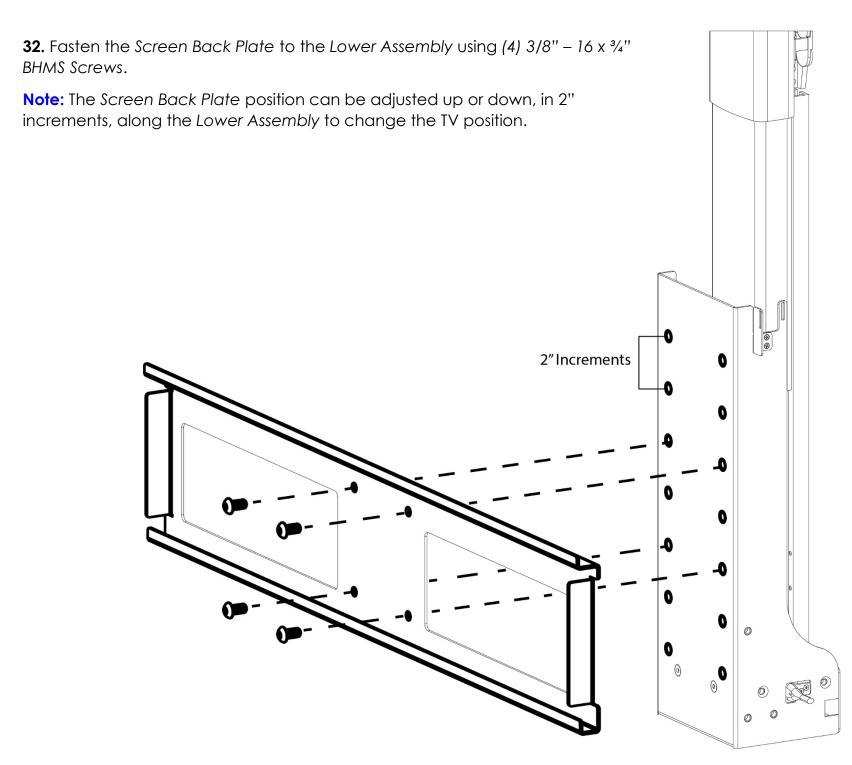
TV Mounting

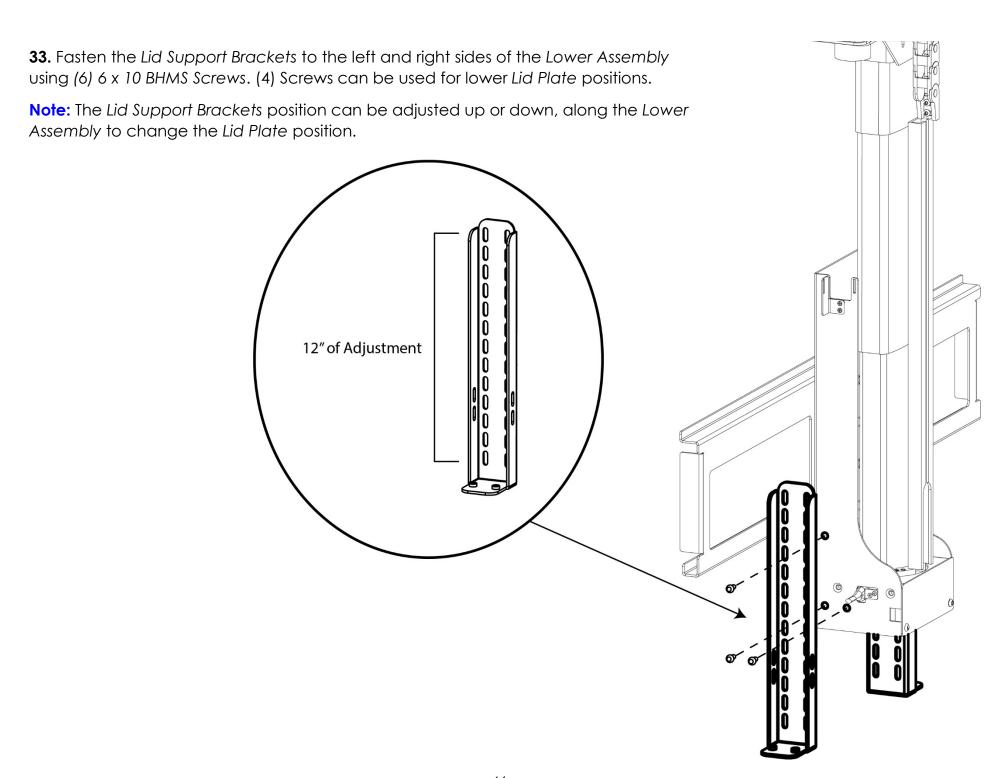
Parts List:

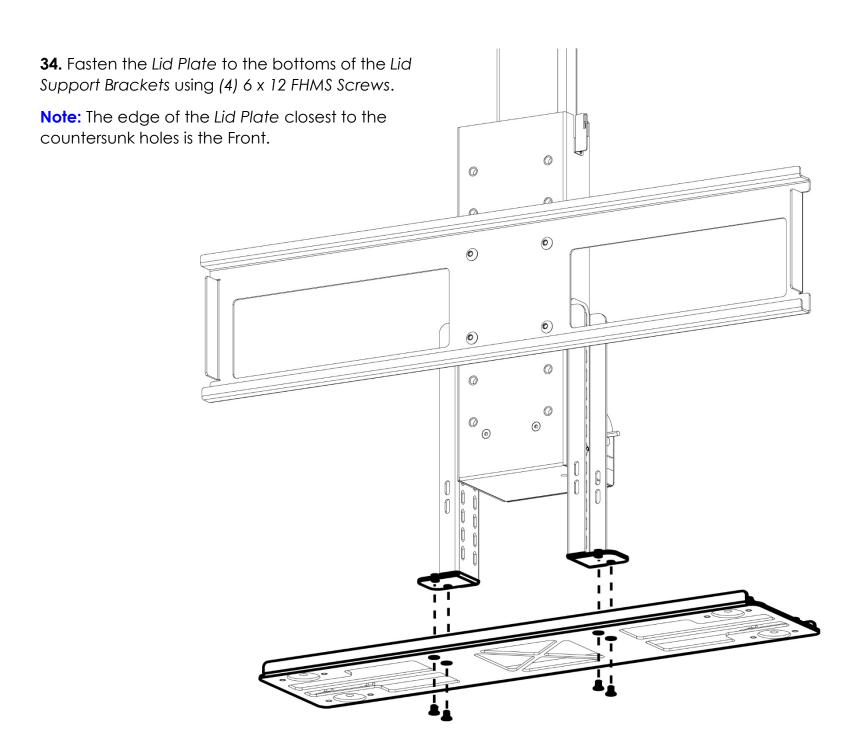


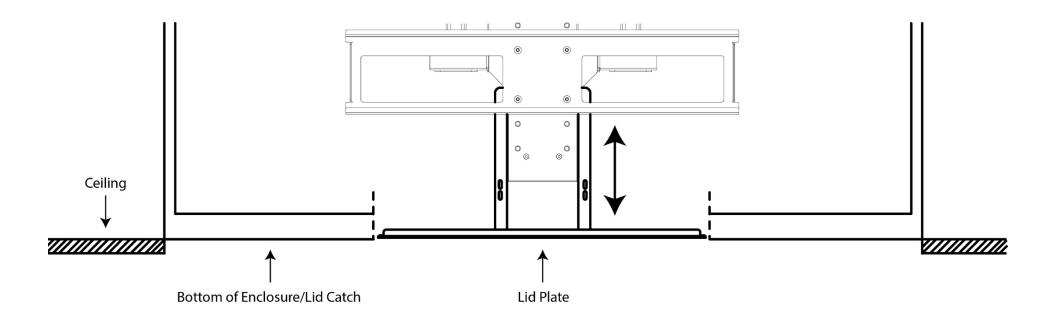
Required Hardware:

- (1) Screen Back Plate
- (2) Lid Support Brackets
- (1) Lid Plate
- (2) Vertical Mounting Bars
- (2) Screen Locks
- TV Mounting Hardware
 - (4) BHMS 3/8"-16 x 3/4"
 - o (6) BHMS M6 X 10mm
 - o (4) FHMS M6 x 12mm
 - o (1) Large Assorted Hardware Pack



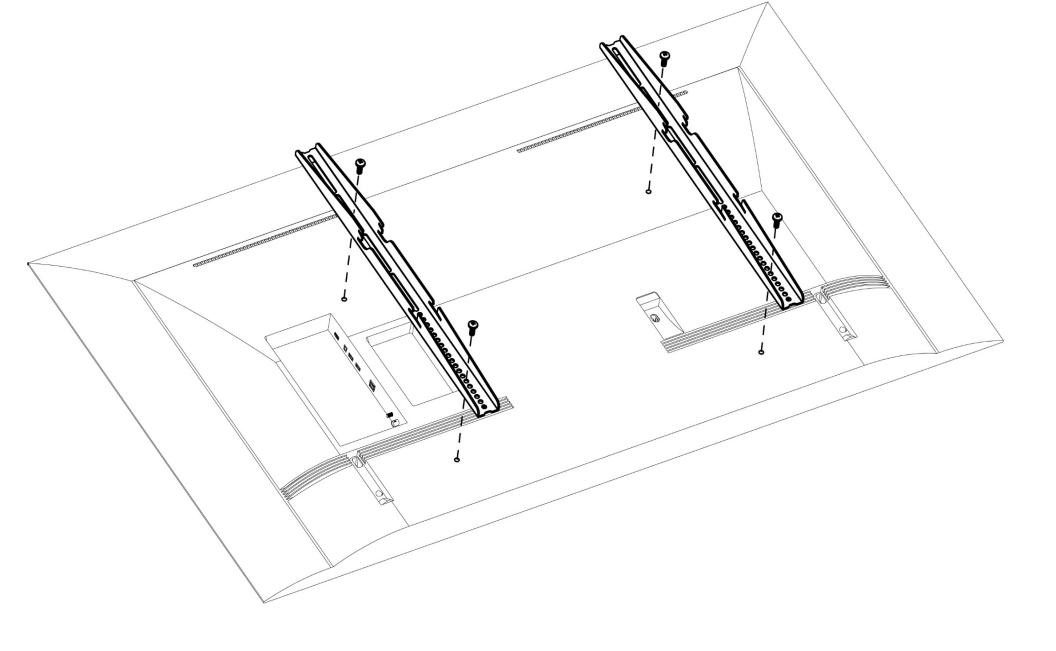






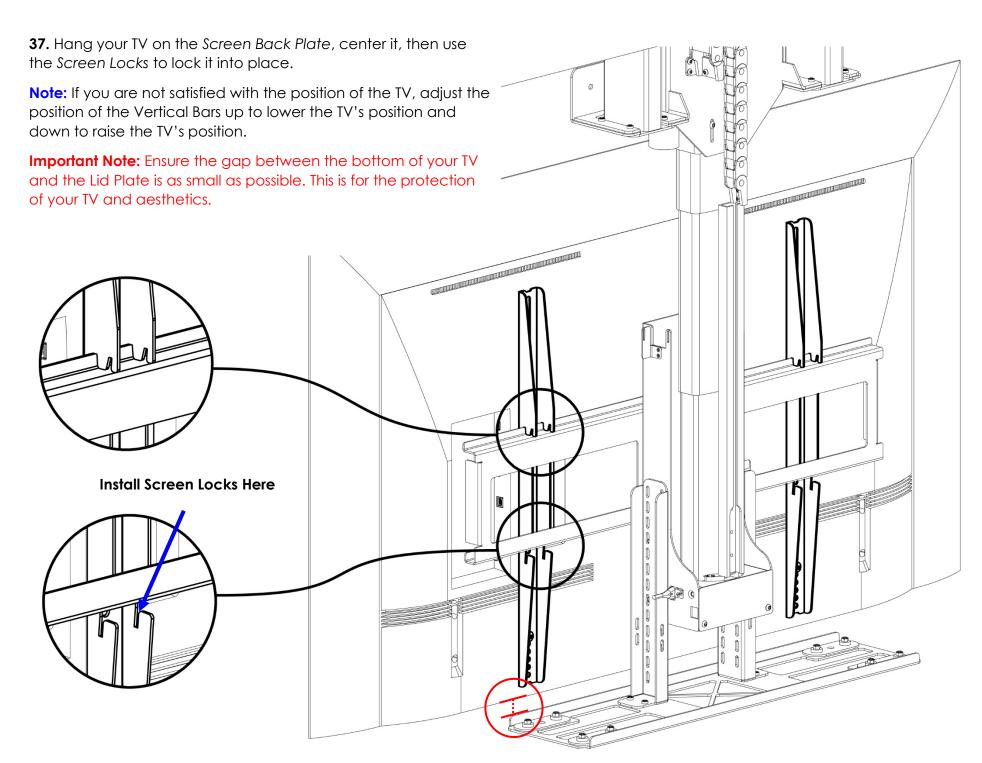
35. Adjust the *Lid Support Brackets* until the bottom face of the *Lid Plate* is flush with the bottom of your enclosure or Lid Catch.

Note: This step is necessary to ensure you can mark the location of the *Lid Stabilization Kit* in a later section of the manual and acts as the lower boundary for locating the correct position of your TV.



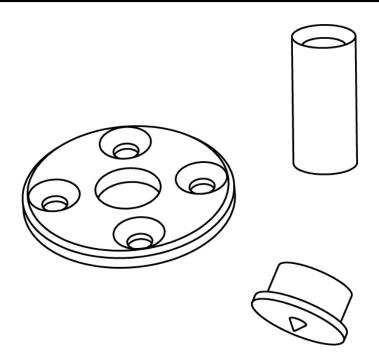
36. Attach the Vertical Mounting Bars to the Mounting Holes on the back of your TV using the Large Assorted Hardware Pack.

Note: The Vertical Mounting Bars can be adjusted up or down along the back side of your TV. Use this adjustment to reduce the gap between the Lid Plate and the bottom of your TV. Be sure the slotted holes are oriented towards the top of your TV.



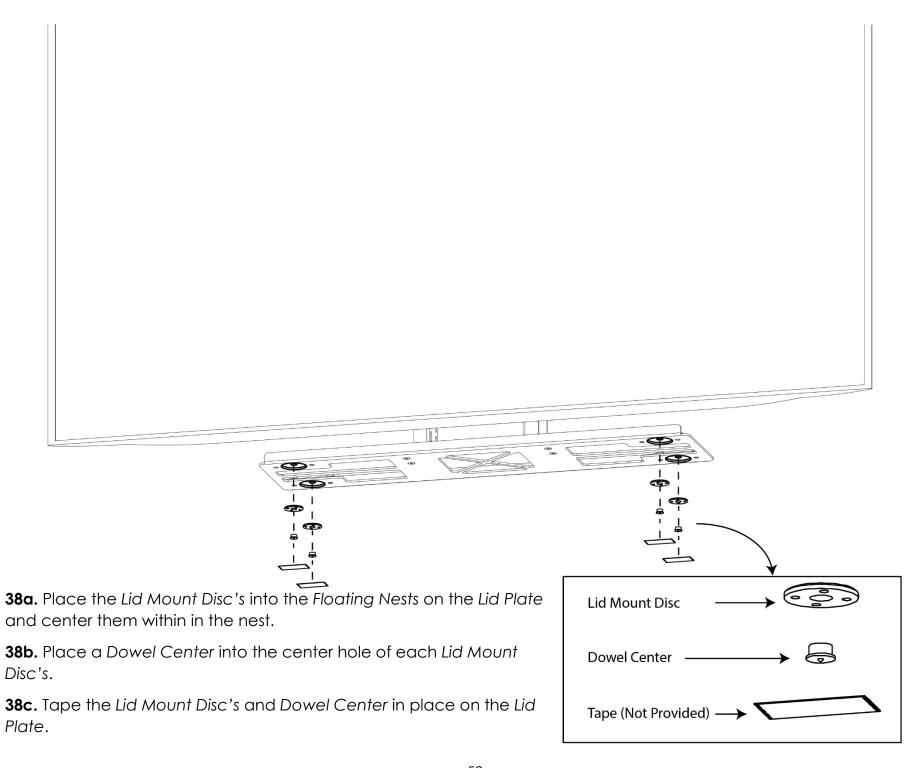
Lid Installation

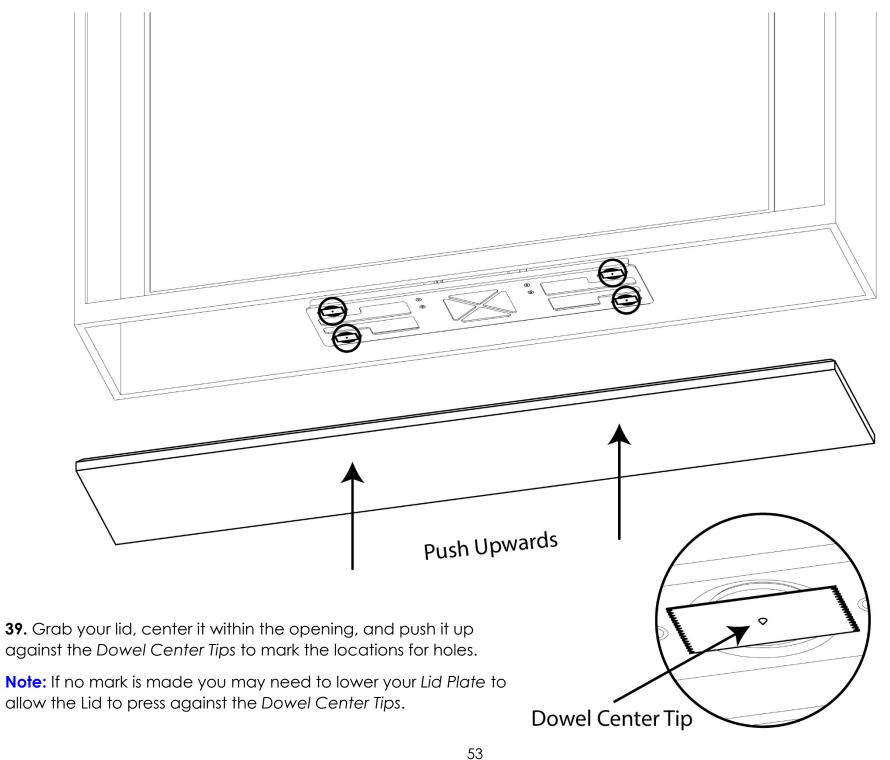
Parts List:

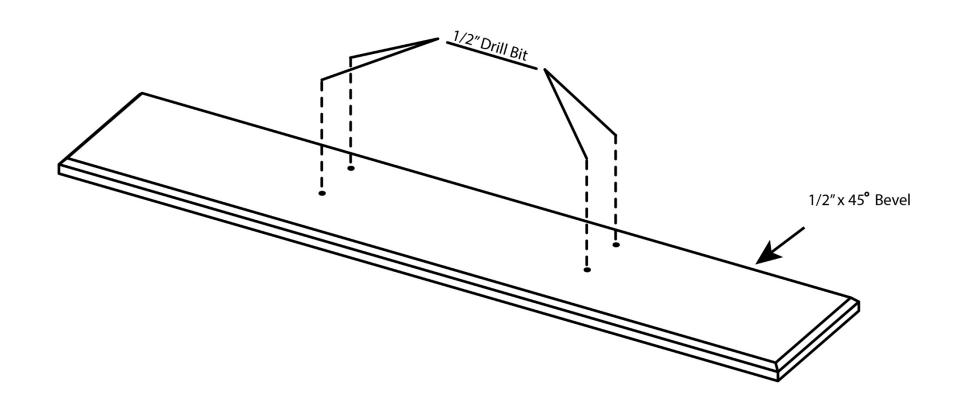


Required Parts & Hardware:

- Lid Installation Hardware
 - o (16) #6 x 1/2" FHWS Screws
 - o (4) SHMS 5/16"-18 X 1-1/2
 - o (4) SHMS 5/16"-18 X 3/8"
 - o (4) 2.5 LG Spring
 - o (4) Lid Mounting Disc
 - o (4) Stabilization Mount
 - o (4) Dowel Centers

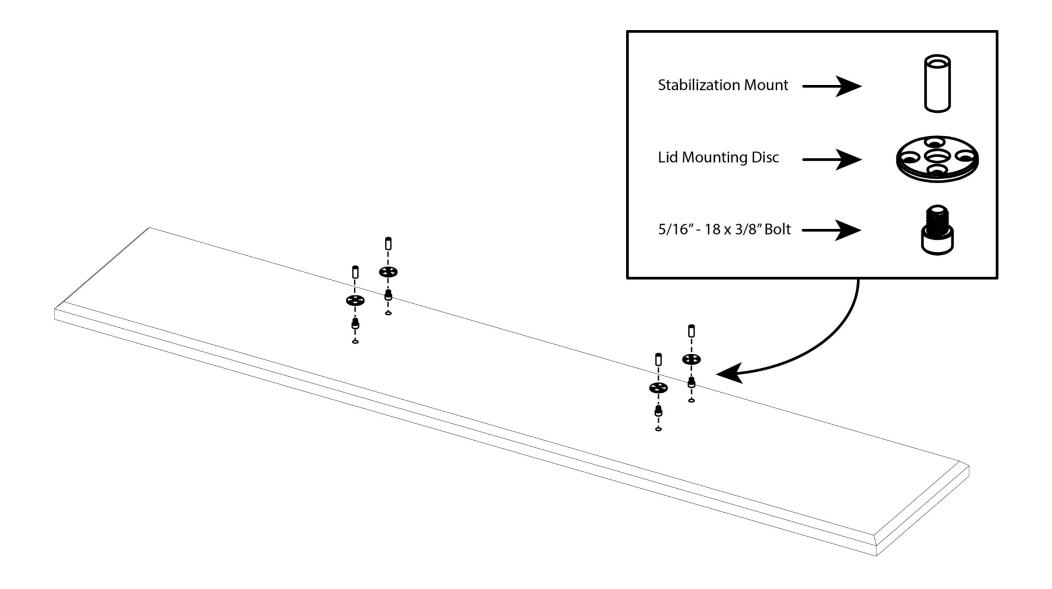






40. Drill a hole in each of the (4) marked locations with a $\frac{1}{2}$ " Drill Bit and make sure the Lid has a $\frac{1}{2}$ " deep, 45 degree bevel all the way around the edge.

Note: The beveled edge ensures the lid will close perfectly every time.

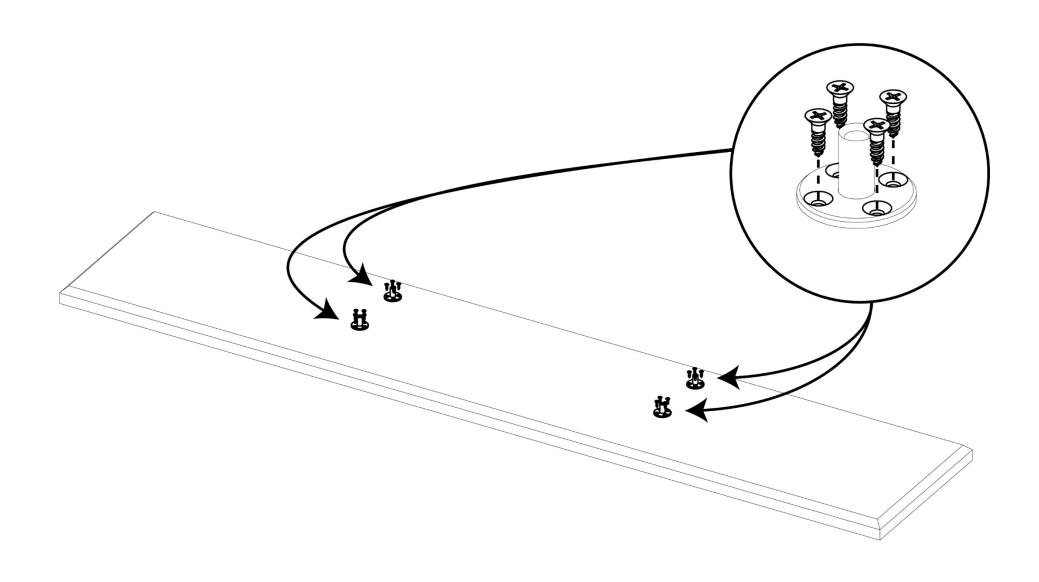


41a. Place a quick setting Epoxy into each hole and then place the SHMS 5/16"-18 X 3/8" Screws into each hole.

41b. Detach the Lid Mount Discs, remove the Dowel Centers, then place them over each of the 5/16"-18 x 3/8" Bolts.

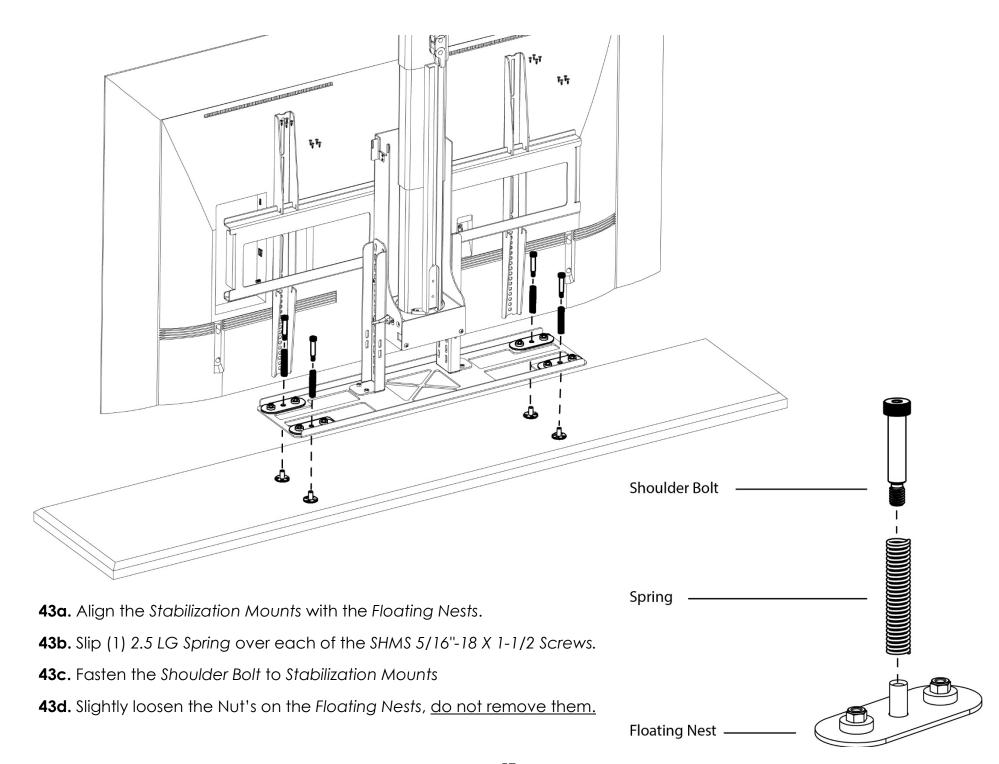
41c. Thread the *Stabilization Mounts* onto each of the *SHMS 5/16*"-18 X 3/8" Screws with the countersunk threads pointed up

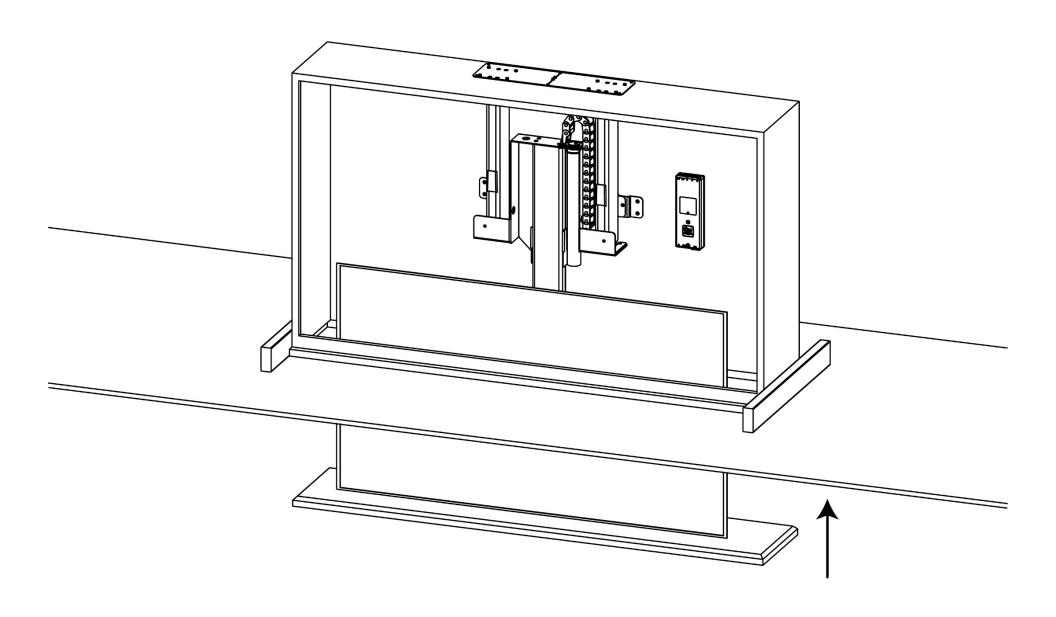
Note: A alternate quick setting adhesive can be used in the event that Epoxy is not available.



42. Fasten the Lid Mount Discs to your Lid using (16) $\#6 \times \frac{1}{2}$ " FHWS Screws.

Important Note: Make sure the Stabilization Mounts remain upright as you fasten the Lid Mount Disc's to the Lid.





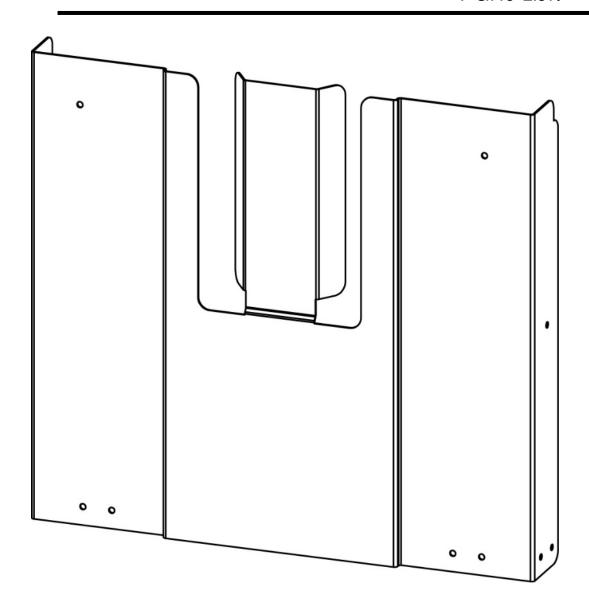
44a. Press the "Up" button on your remote to retract the lift into the ceiling and test the placement of your Lid. If needed, press the "Down" button to stop the system at any time.

44b. Adjust the position so that it is centered within your opening then extend it again.

44c. Tighten the Nuts on each of the *Floating Nests*, be sure to maintain the position of your lid as you tighten them.

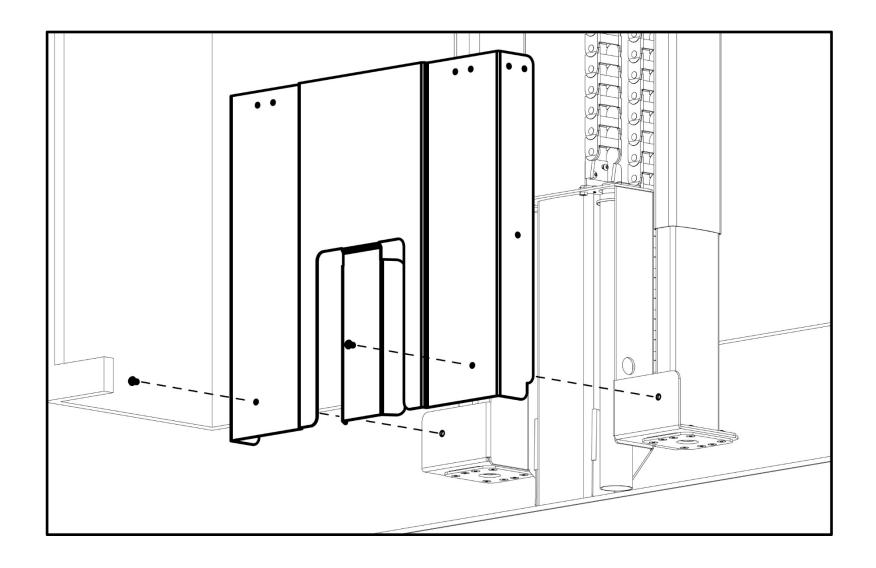
Finishing Touches

Parts List:



Required Hardware:

- Front Cover
- Front Cover Hardware
 - o (2) BHMS M6 x 10mm



45. Fasten the Front Cover to the Lower Assembly using (2) 6 x 10 BHMS Screws.

Note: Be sure the Snakeskin does not protrude through the center opening of the Front Cover after you're done.

System Setup

Parts List:

Important Information

The L-75ix Lift System must always be configured with the provided RF Remote and Height Limit Insert. DO NOT DISCARD.

There are five configurable positions for the L-75ix Lift System:

Maximum Extension, Max Left Swivel, Max Right Swivel, Preset 1, & Preset 2

- The default setting for the Max Left Swivel and Max Right Swivel is 180°. You can set the Max Left Swivel and Max Right Swivel to be a minimum of 5° up to a maximum of 180° or anything in-between.
- Preset 1 and Preset 2 are not pre-configured and must be set prior to use. The position of Preset 1 and Preset 2 are limited by the boundaries set by the Max Left Swivel and Max Right Swivel.
- The steps on the next page will walk you through configuring all five positions.

Changing the Maximum Extension:

- **46.** Press the "Down" button to lower the system, then tap the "Up" button to stop it once it reaches your desired position.
- 47. Plug the Height Limit Insert into the available RJ45 port on the RF Receiver. (The Height Limit Insert is inside the RF Control Kit)

Important Note: The system must travel a minimum of 48" otherwise it will not allow your TV to swivel. If you are using the full extension of the system (52"), the Height Limit Insert is still **REQUIRED**.

Setting the Max Left and Max Right Swivel:

The Max Swivel positions only need to be set when an obstruction is preventing the system from swiveling to a full 180 degrees.

- 48. Press and hold the "Left" button to rotate your TV then release it once the TV reaches your desired Max Left Swivel position.
- **49.** Press and hold the "Down" and "Home" buttons simultaneously for 5 seconds then release. The Max Left Swivel has been set.
- **50.** Press and hold the "Right" button to rotate your TV and release it once the TV reaches your desired Max Right Swivel position.
- **51.** Press and hold the "Up" and "Home" buttons simultaneously for 5 seconds then release. The Max Right Swivel has been set.

Setting the Preset 1 and Preset 2 Positions:

- **52.** Press and hold the "Left" or "Right" button to swivel the TV and release the button once the TV reaches your desired position.
- 53. Press and hold the "1" or "2" button for 5 seconds.

Note: The "Home" position is always pre-saved and cannot be changed. It will always be set at Center Swivel position and the lift fully retracted into the ceiling.

Important Note: If the Center, Max Left Swivel, or Max Right Swivel positions need to be reset, press and hold the "Left" and "Right" buttons simultaneously for 5 seconds to clear them. Once they have been cleared, follow the steps on Pg. 41 to set the Center position followed by the steps on this page to set the Max Left and Max Right Swivel.

While the Center position is unknown, the Lift System will not retract into the ceiling.

Integration Information

The L-75ix can only be integrated with a Control System using IP Control. The IP Control Module will always be included with the purchase of the L-75ix Lift System. Refer to the included Nexus 21 IP Control User Guide for details regarding IP integration.

If you do not wish to integrate your L-75ix with a Control System, use the provided RF Remote to operate your system instead.

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