

NEXUS₂₁

TECHNOLOGY IN MOTION

Installation Manual for L-65x

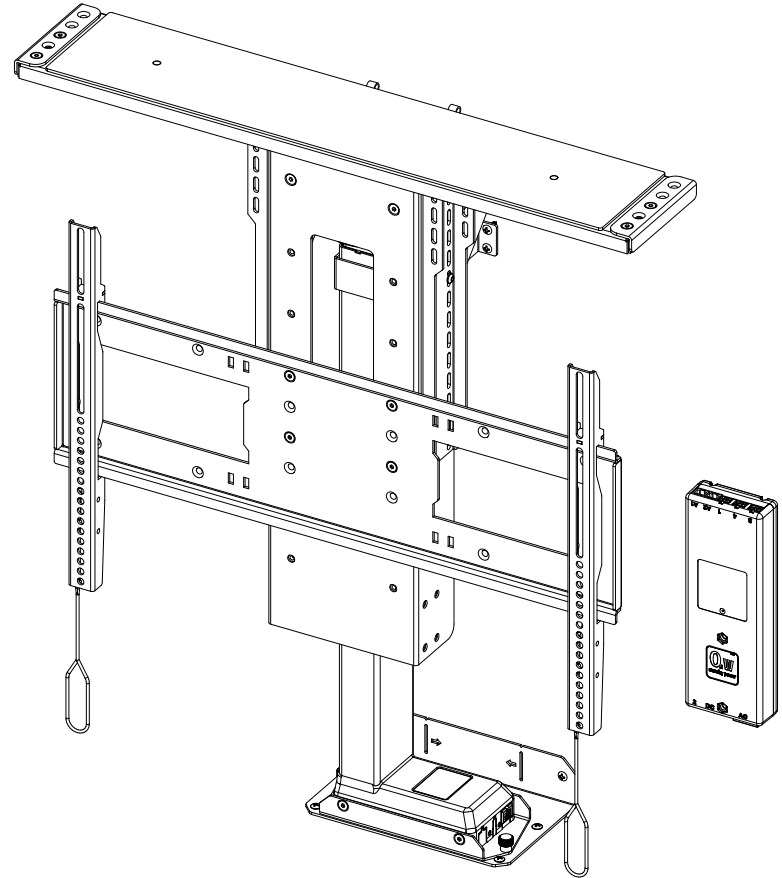


Table of Contents

Safety Information	Page 3
Parts & Hardware List	Page 4
Warranty & Return Policies	Page 6
Assembly & Installation	Page 8
Connecting the Lift System	Page 13
Assembly & Installation Continued	Page 16
TV Mounting	Page 29
Lid Installation	Page 34

Safety Information

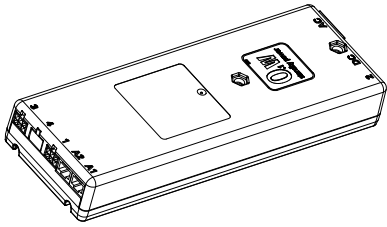
WARNINGS:

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 to 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.
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.

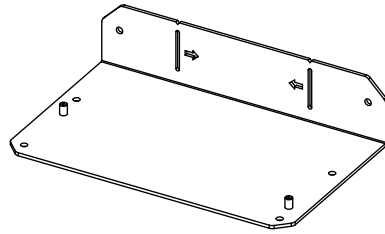
Safety Notice: Avoid contact with the TV and Lift System during operation. The lid of your enclosure must be installed as described in the instructions, using the Lid Adapter Plate. Installing the enclosure lid in any other fashion will create hazardous pinch points that can cause serious personal injury. Do not, under any circumstances, allow any person or pet to position themselves under the TV at any time.

Disclaimer: Nexus 21 disclaims any liability for modifications, improper installations, or installations over the specified weight range. Nexus 21 will not be liable for any damages arising out of the use of, or inability to use, Nexus 21 products. Nexus 21 bears no responsibility for incidental or consequential damages. This includes, but is not limited to, any labor charges for the servicing of Nexus 21 products performed by anyone other than Nexus 21. 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.

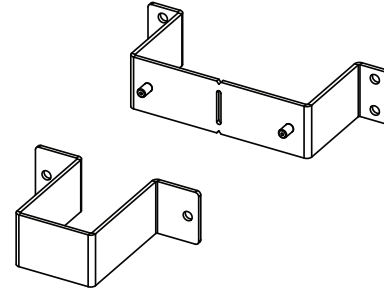
Parts List



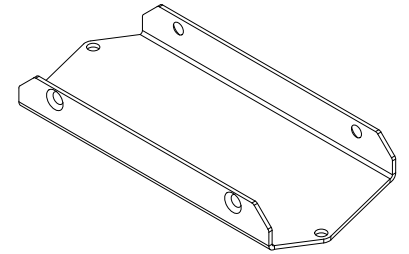
Control Box



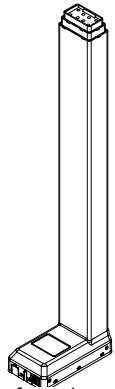
Base Mount



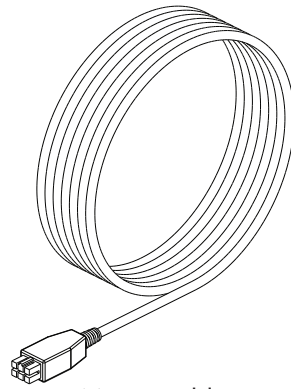
Column Clamp Base & Extension



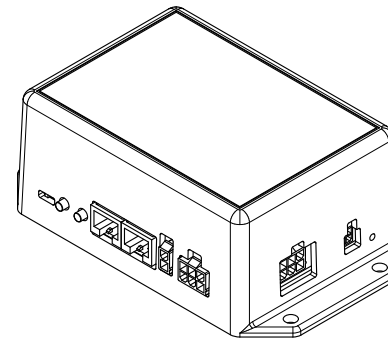
Lift Column Mount



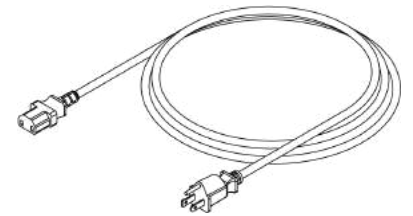
Lift Column



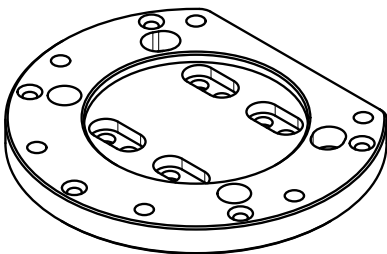
Motor Cable



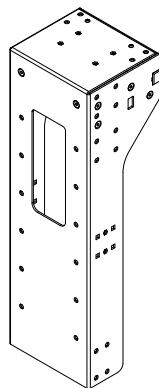
IP Control Module



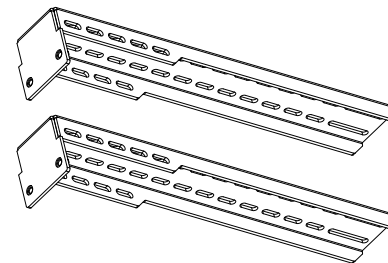
Power Cable



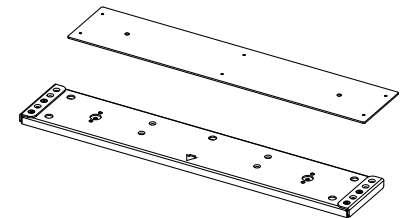
Lift Column Adapter



Motorized Swivel

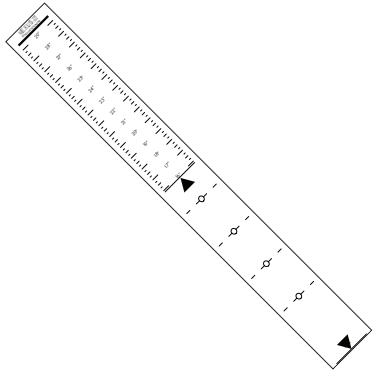


(2) Lid Support Bracket

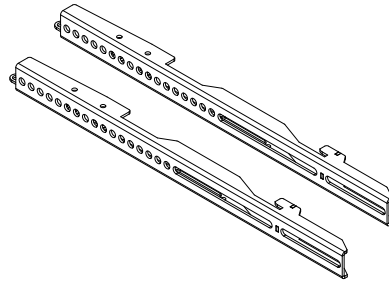


Lid Plate & Lid Adapter Plate

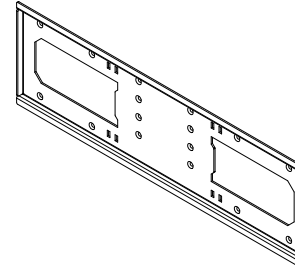
Parts List Continued



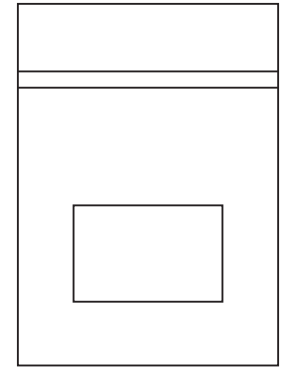
TV Mounting Template



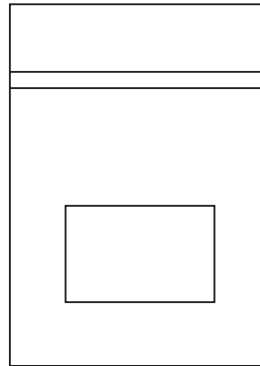
(2) Vertical Mounting Bar



Screen Backplate



Hardware Pack



IP Control Kit

Hardware Pack Contains:

(2) - #10 x 1-3/4 FHWS
(18) - #10 x 3/4 THWS
(14) - M6 x 12 BHMS

(12) - M6 x 12 FHMS
(4) - M6 x 16 BHMS
(4) - M6 Thumb Screw
(4) - M6 Nyloc Nut (Alt)

(1) - M4 Small Hex Key
(4) - Lid Corner Catches
(4) - Snakeskin Ties

(4) - Plastic Ties
(4) - Wire Clips
(1) - Large Assorted Hardware Pack*

*Large Assorted TV Hardware accommodates most TV's but additional hardware may be necessary to mount certain TV's.

10-Year Full Replacement Warranty

Nexus 21 products are manufactured to the highest standards of quality and we are proud to provide the industry's longest, most comprehensive warranty: 10 years of full-replacement coverage.*

Nexus 21's dedicated product-support specialists are ready to assist you with any questions. We ask that our specialists be consulted before any repairs or modifications are attempted, as these may void the product warranty.

How It Works:

Step 1:

If you experience any problem with a Nexus 21 system, call our Product-Support Team at 1-480-306-5462.

Step 2:

We'll guide you through some of our basic troubleshooting procedures to help identify any issues. The majority of reported issues are resolved with us on the first call without a need for replacement parts or systems.

Step 3:

In the event that you do need a replacement part or system, we'll ship it to you right away, along with a prepaid UPS return shipping label and a package for the defective part or system to be returned to our office. Nexus 21 will cover the shipping cost of the replacement part or system within the continental United States and Canada (excludes Hawaii, Alaska and Puerto Rico). Shipping costs for replacement parts or systems shipped internationally will be covered up to a value of \$50. Any additional shipping costs, including applicable duties and taxes, are the responsibility of the customer or receiving party.

The Details:

Nexus 21 warrants all systems to be free from defects in material and workmanship from the date of purchase until the end of the coverage period (shown below). The warranty includes all parts, motorized components, electronics and metal parts. If a Nexus 21 system or part proves to be defective in material or workmanship during the expressed warranty period, Nexus 21 will replace it free of charge. If the exact original purchase product is not available (due to upgraded designs or discontinuation of a model), the defective product will be replaced with a similar product of equal or greater value. The replacement will then be covered by the balance of the time remaining on the customer's original warranty. A Nexus 21 product-support representative will determine whether a part or an entire system should be replaced.

* Coverage periods for the warranty are as follows:

Residential and Hotel Use

- All Nexus 21 motorized products (except Apex): 10 years
- Apex Motorized Wall Mount: 5 years

Commercial and Educational Use

- All Nexus 21 motorized products (except Apex): 5 years
- Apex Motorized Wall Mount: 3 years

The Nexus 21 full-replacement warranty does NOT cover: any product on which the serial number has been defaced, modified or removed; damage, deterioration or malfunction resulting from accident, misuse, neglect, power surges, fire, water, lightning or other acts of nature; unauthorized product modification; failure to follow manufacturer's recommended installation instructions supplied with the Nexus 21 system; repair or attempted repair by anyone not authorized by Nexus 21; causes external to the product such as electric power fluctuations or failure; use of supplies or parts not meeting Nexus 21 specifications or any other cause which does not relate to a product defect.

PLEASE NOTE: In order for any warranty claim to be covered fully under the outlined policy we will require the name, company name or contact information for the original purchaser of the product to qualify the claim. If the information requested cannot be supplied to us or located on file, replacement parts or systems may not be covered under warranty.

Return Policy

Within 30 Days of Delivery:

Customers may return a Nexus 21 product(s) for any reason within 30 days of the date it is received for a full refund of the purchase price. Shipping charges associated with your order are not eligible for refund. To initiate a product-return request, please review the following conditions:

- The product must be unused and complete. Full or partial assembly of the product may void eligibility for return.
- The product must be returned in its original packaging to ensure it is not damaged during shipping.
- Customers must call Nexus 21 and speak with a representative to initiate a return request.
- All returns are subject to an inspection process by a member of Nexus 21 Product Support before a refund is issued.
- Please allow a minimum of 2 weeks from the date the return is received for a refund to be processed.
- Any Nexus 21 product that is received back and deemed unfit for resale or restock upon inspection due to installation or shipping damage will not be eligible for a full refund.
- Customers are responsible for shipping charges to send the product back to us.
- All returns must be processed back to the original form of payment used in the purchase of the item(s).

Nexus 21 ships each product encased in custom die-cut foam, which is purpose-engineered for vibration dampening to reduce any risks of shipping damage. It is mandated that all product returns be shipped back to Nexus 21 in their original packaging. If you do not have the original packaging, please contact Nexus 21 Product Support at 1-480-306-5462. A new set of packaging materials can be requested and the cost will be deducted from the refund amount.

After 30 Days

Returns received 30-60 days after the product has been delivered are not eligible for a full refund of the purchase price. All returns accepted back during this time frame will be subject to a **restocking fee of 25% of the original purchase price**. The following conditions apply to any returns received within this stated timeframe:

- The product must be unused and complete. Full or partial assembly of the product may void eligibility for return.
- The product must be returned in its original packaging to ensure it is not damaged during shipping.
- Customers must call Nexus 21 and speak with a representative to initiate a return request.
- All returns are subject to an inspection process by a member of Nexus 21 Product Support before a refund is issued.
- Please allow a minimum of 2 weeks from the date the return is received for a refund to be processed.
- Any Nexus 21 product that is received back and deemed unfit for resale or restock upon inspection due to installation or shipping damage will not be eligible for a full refund.
- Customers are responsible for shipping charges to send the product back to us.
- All returns must be processed back to the original form of payment used in the purchase of the item(s).

Nexus 21 ships each product encased in custom die-cut foam, which is purpose-engineered for vibration dampening to reduce any risks of shipping damage. It is mandated that all product returns be shipped back to Nexus 21 in their original packaging. If you do not have the original packaging, please contact Nexus 21 Product Support at 1-480-306-5462. A new set of packaging materials can be requested and the cost will be deducted from the refund amount.

Nexus 21 will not accept return requests past 60 days of the product being delivered.

To initiate a Return follow the steps listed below:

Step 1: Call 1-888-981-9919 and request to return your product(s).

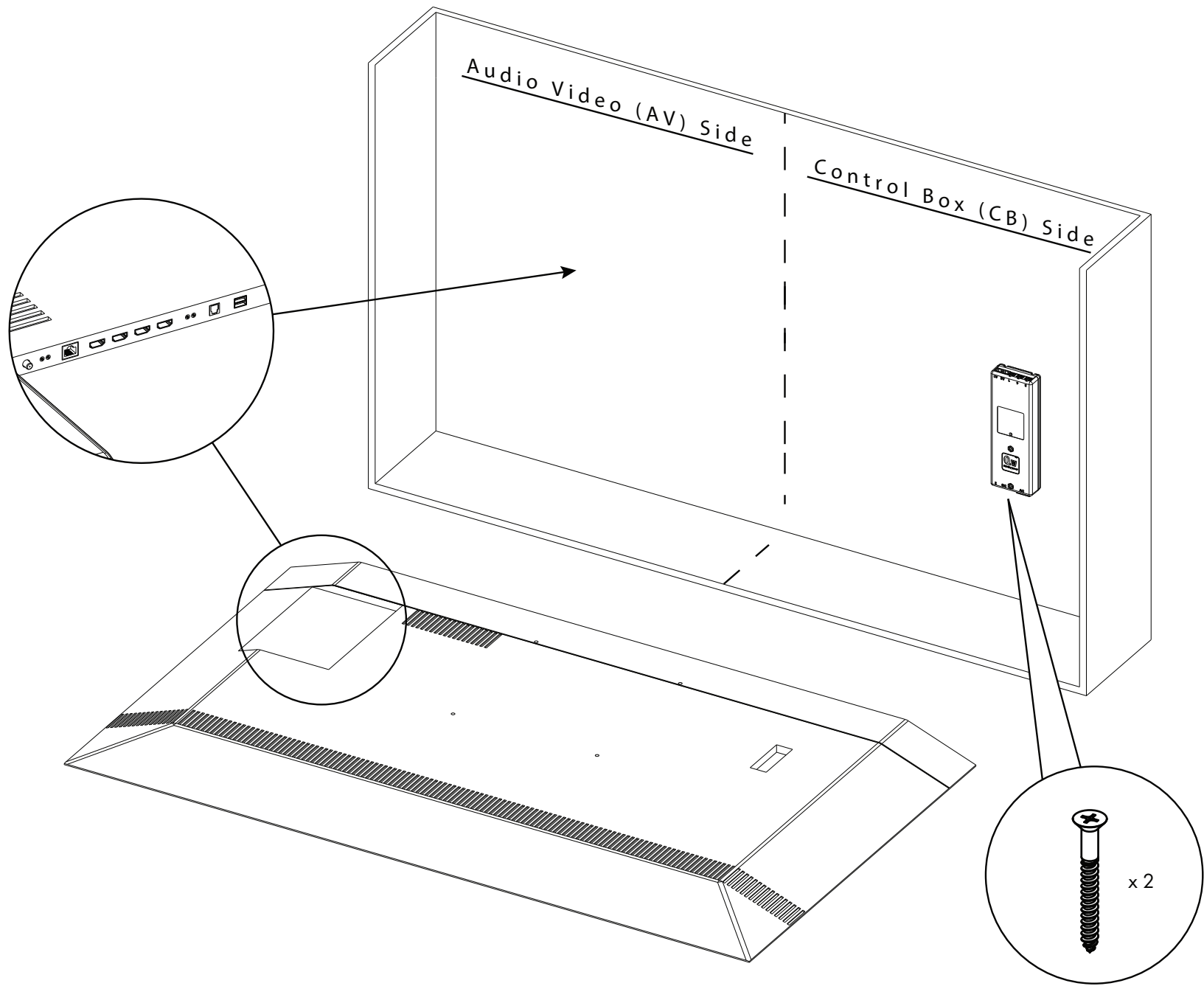
Step 2: Your Account Manager will provide you with a link to a form for you to fill out digitally.

Step 3: Arrange shipment of the product to our office. Emailing the tracking information to support@nexus21.com can expedite the process.

Once your product is received, please allow up to 2 weeks for us to inspect and process your return. You will receive a confirmation email indicating that your return has been successfully processed. Refunds may take 5 - 10 business days depending on your issuing bank.

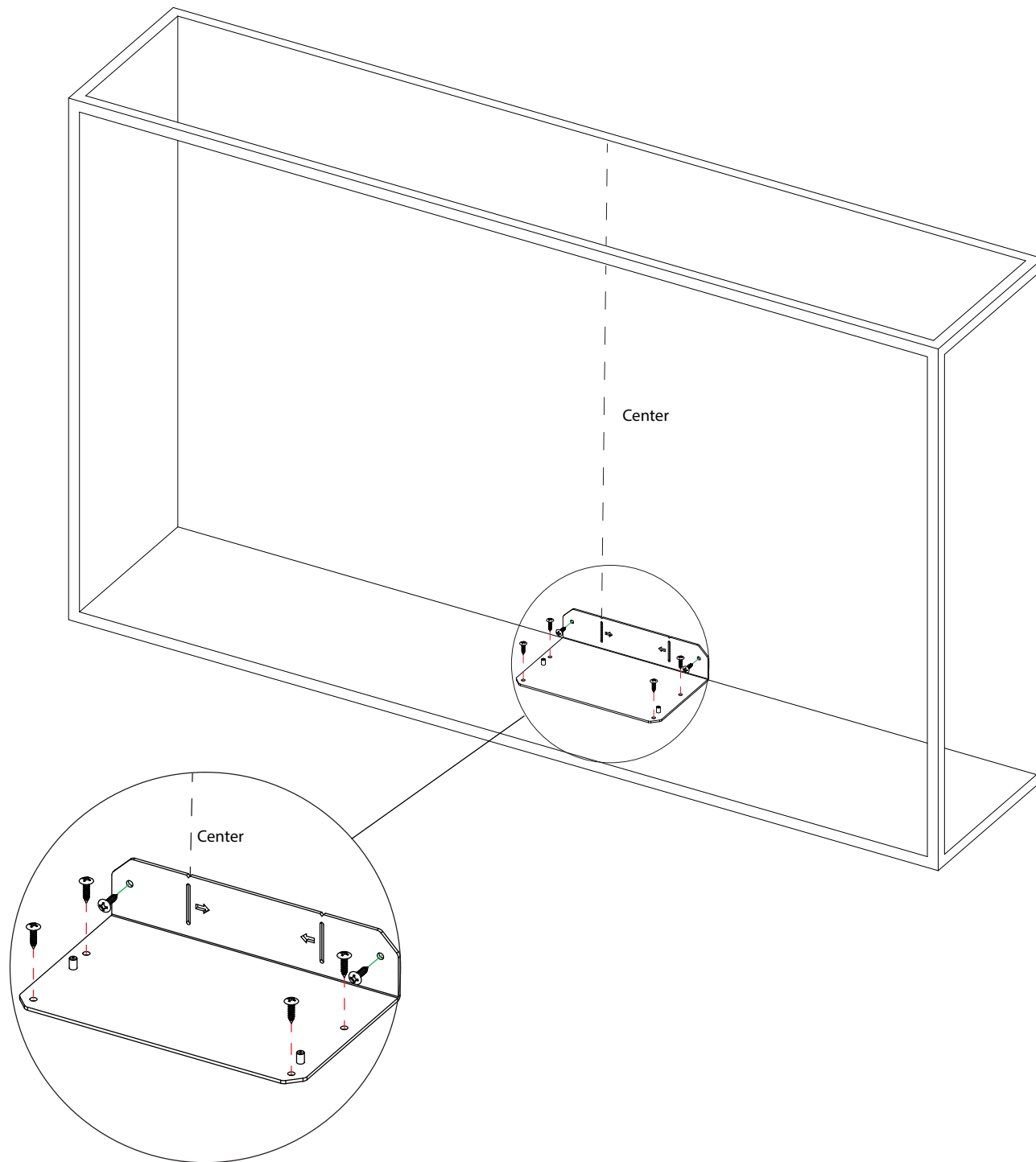
Assembly & Installation

This section of the manual will walk you through how to assemble and install your L-65x lift system.



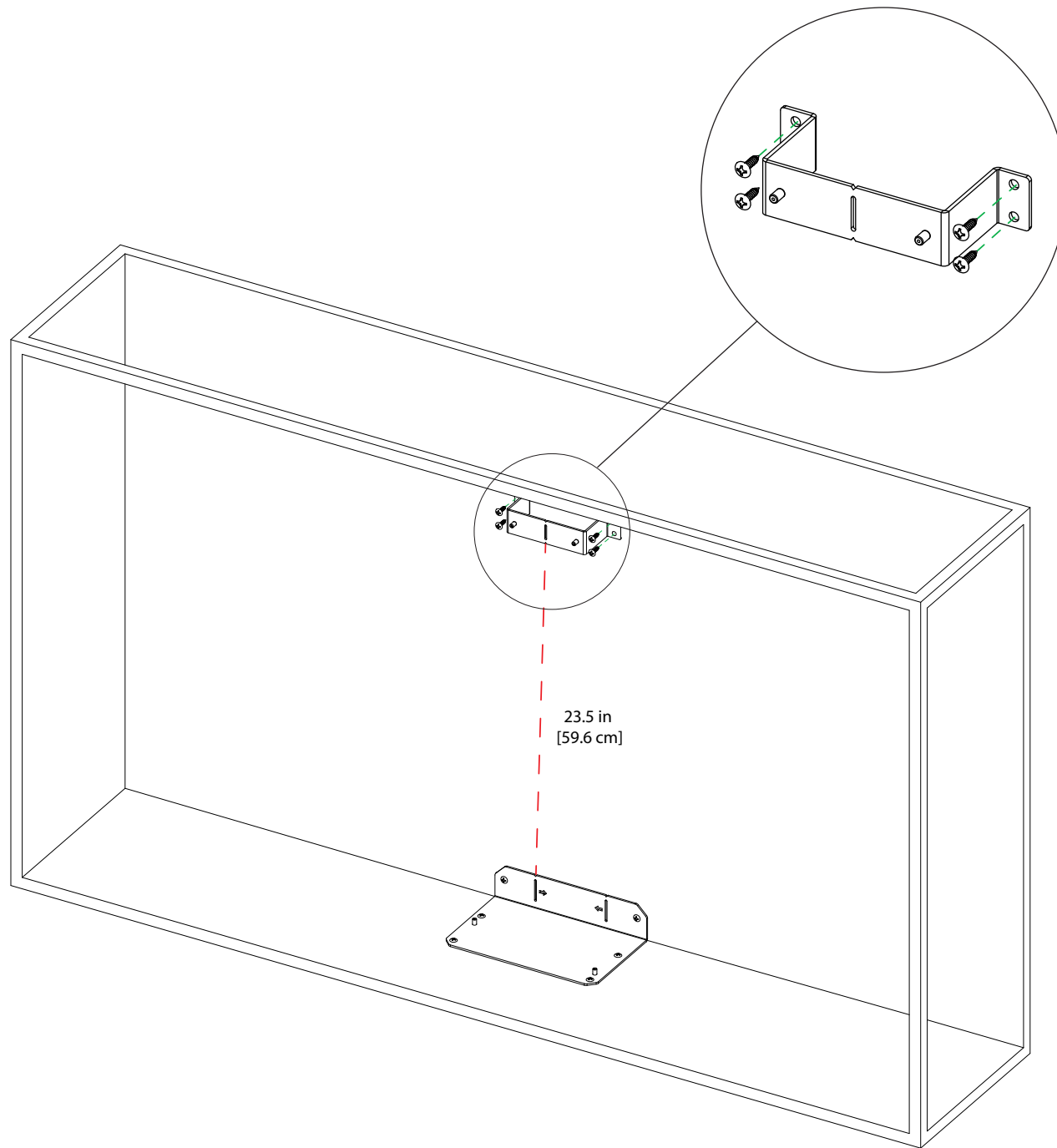
1a. Identify which side of your TV the AV ports are on; this will be the AV Side of the Cabinet. The other side will be where you mount your control box; this will be the CB Side. For illustration purposes, the rest of this manual will show an installation with the AV side on the left and the CB side on the right.

1b. Secure your Control Box to the CB side of the cabinet using (2)#10 x 1-3/4 FHWS.

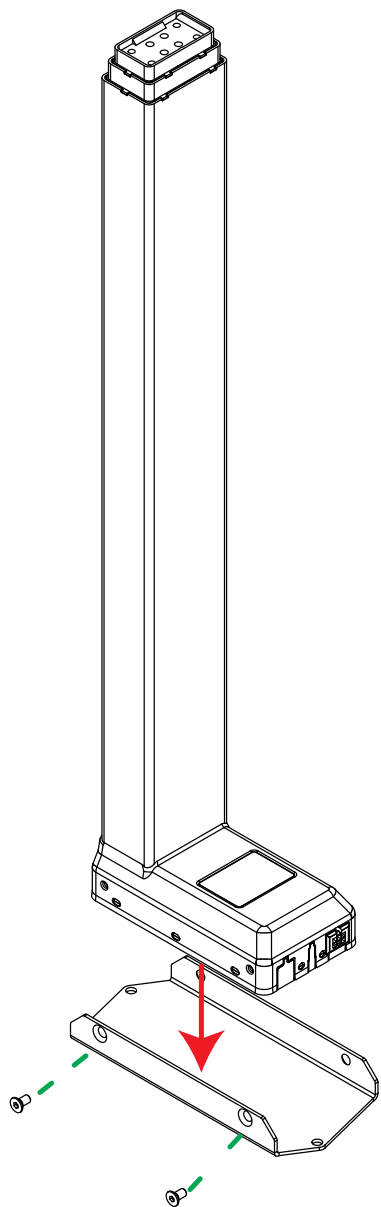


2. Attach the Base Mount to the base and rear panels of the cabinet using (6) #10 x 3/4 THWS by aligning the center line on the Base Mount with the center of the cabinet.

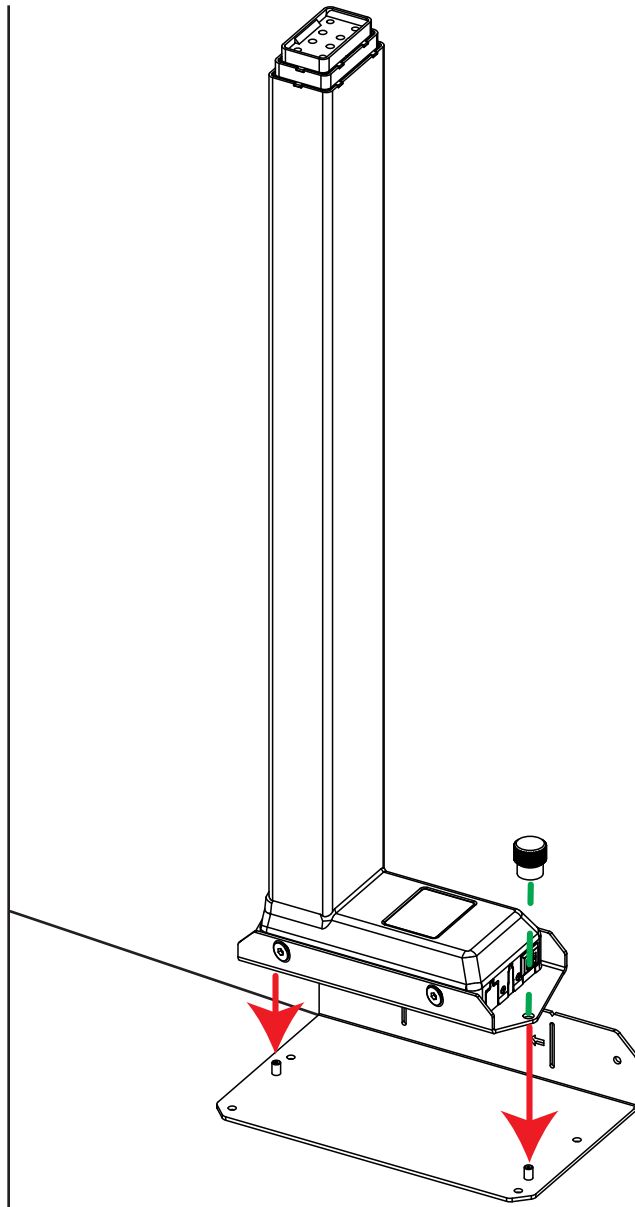
Note: If your CB Side is on the right, align the center line with the arrow pointing to the right with the center of your cabinet. If your CB side is on the left, align the center line with the arrow pointing to the left.



3. Attach the Column Clamp Base to the rear of the cabinet 23.5" [59.6 cm] from the top of the Base Mount using (4) #10 x 3/4 THWS.
Note: Use the Center line Cutout on the Base Mount and Column Clamp Base to assist with locating them on the inside of your cabinet.

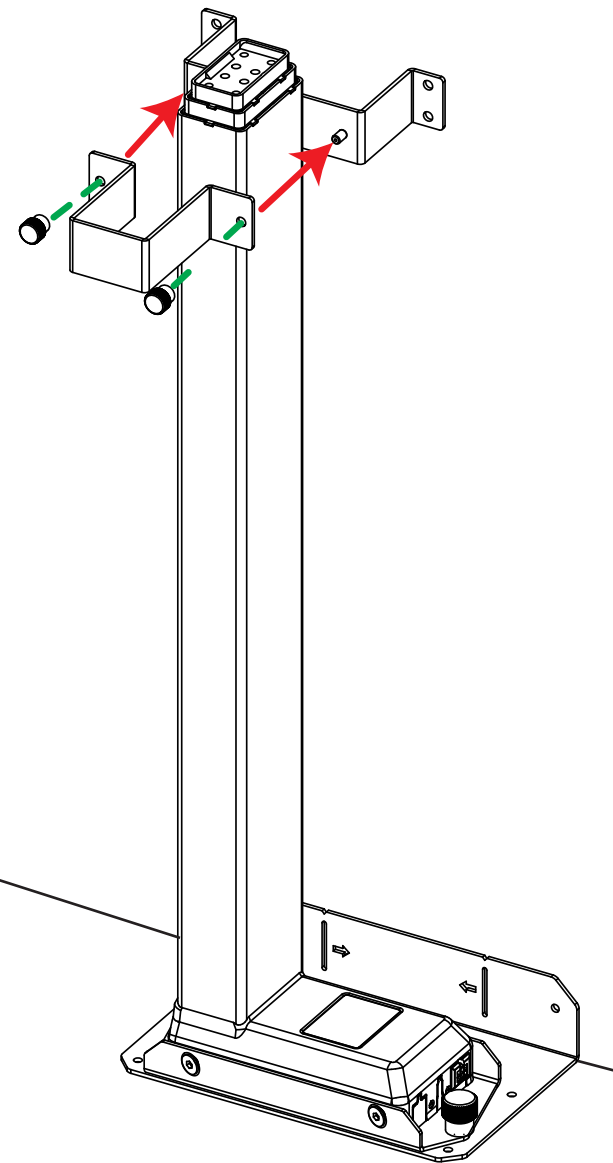


4a. Attach the Lift Column Mount to the base of the Lift Column using (4) M6 x 12 FHMS.



4b. Attach the Lift Column Assembly to the Base Mount using (2) Thumb Screws. Ensure the foot of the column is facing the same direction as the CB Side.

Note: (2) M6 Nyloc Nuts can be substituted for the Thumb Screws.

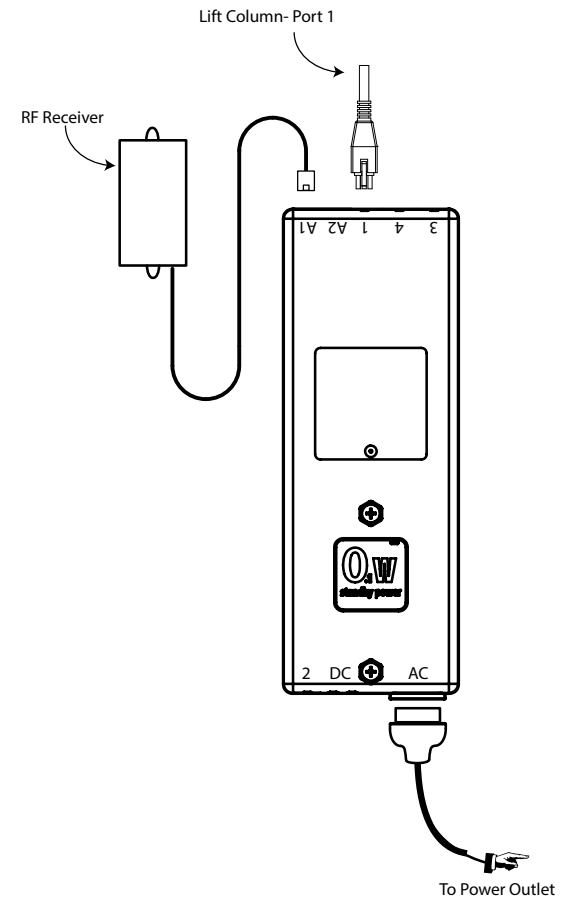
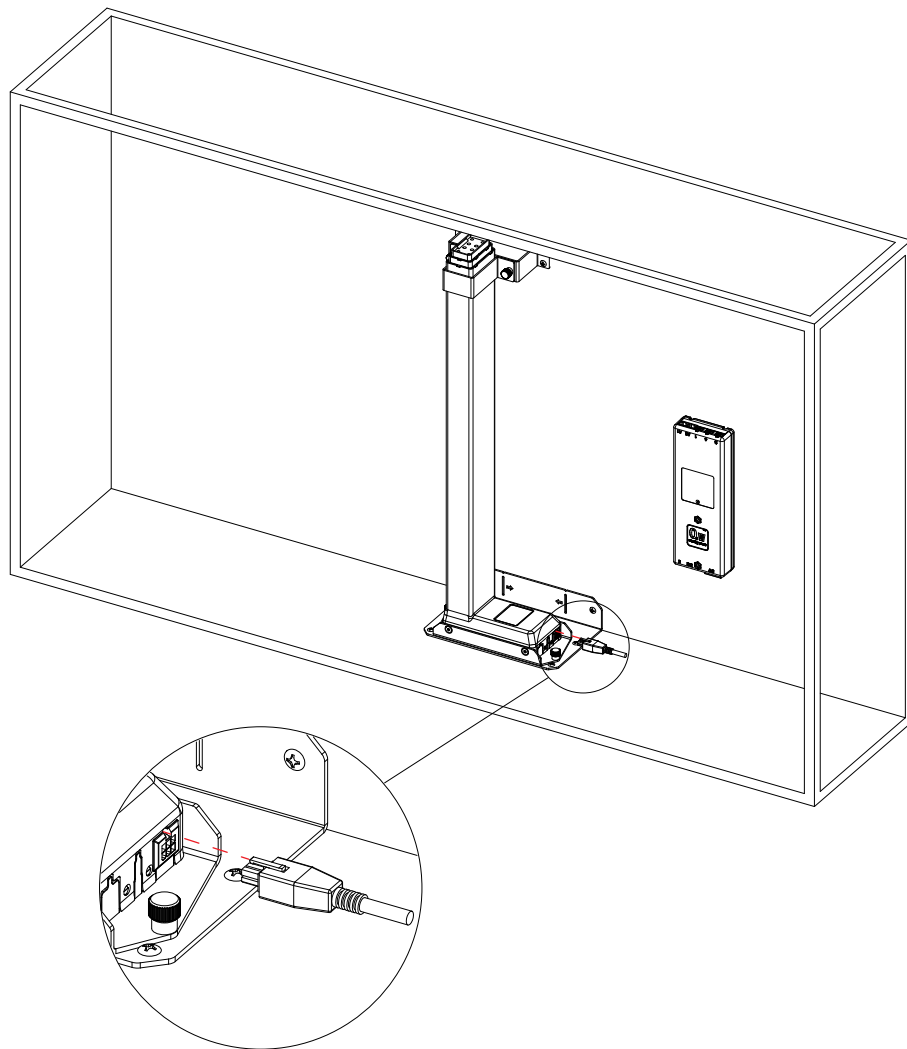


5. Slide the Column Clamp Extension around the front of the lift column and secure it to the Column Clamp Base using (2) Thumb Screws.

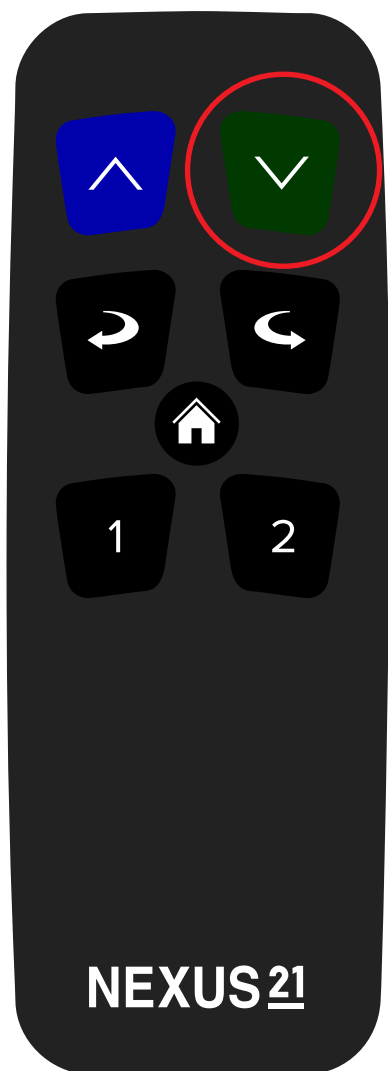
Note: (2) M6 Nyloc Nuts can be substituted for the Thumb Screws.

Connecting the Lift System

This section of the manual will walk you through how to connect your L-65x lift system.

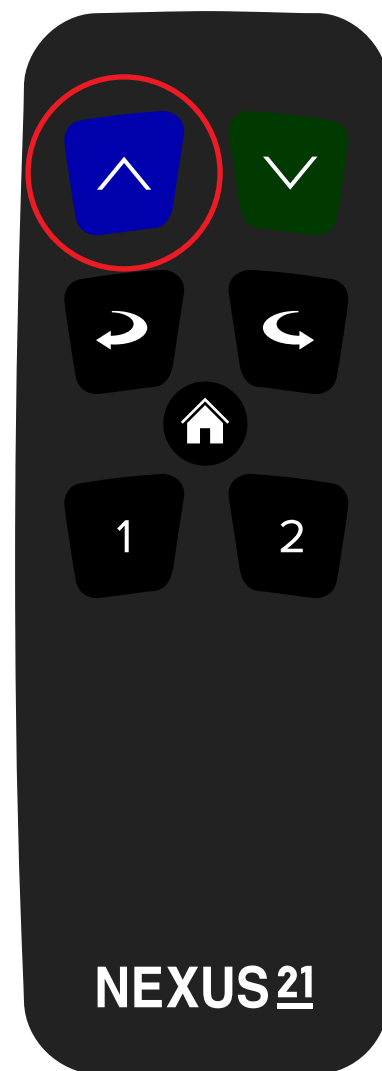


- 6a.** Connect one end of the Motor Cable to the Lift Column and the other end to Port #1 on the Control box
- 6b.** Connect the RF Receiver to Port A1 on the Control Box.
- 6c.** Connect to the Power Cord to the AC Port on the bottom of the Control Box.



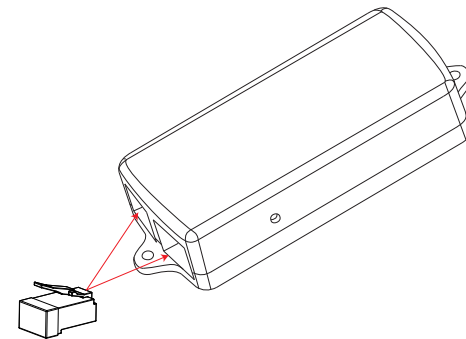
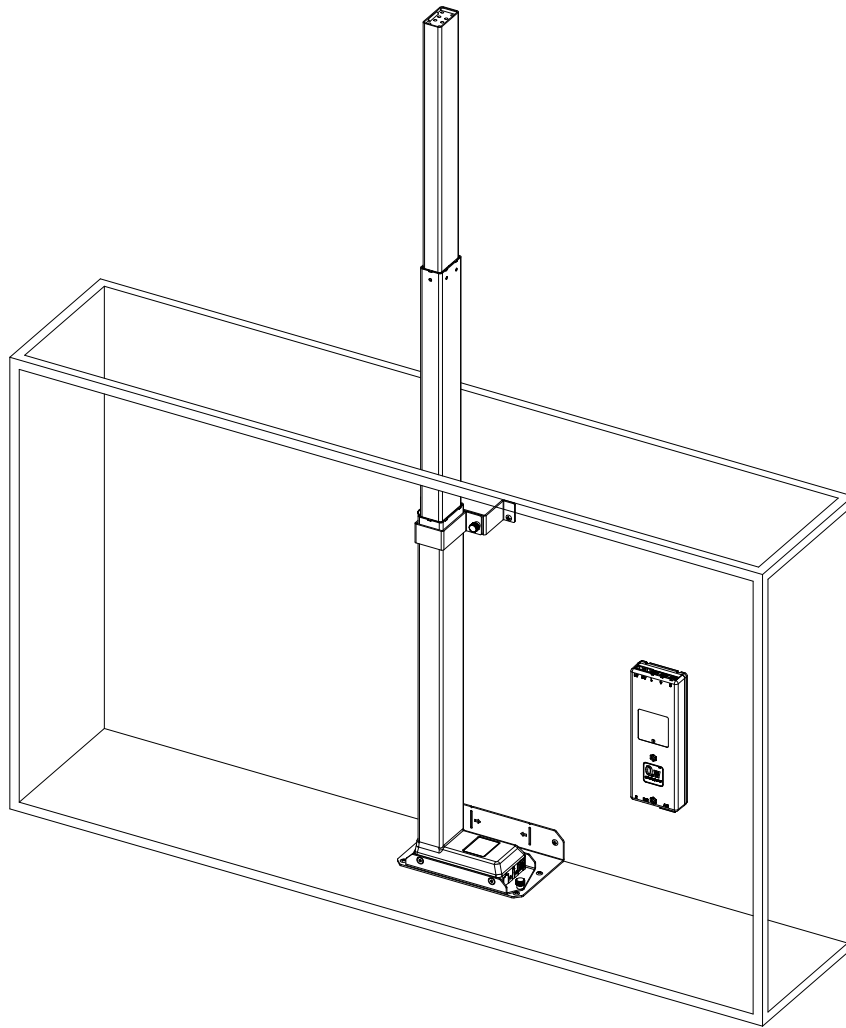
7. Press the Down button on the RF Remote, release, then press and hold it for 5 seconds to perform an 'Initialize'.

During this time, you should observe a slight movement from your system indicating it has successfully been initialized. If you do not observe this movement, repeat this step.



8. Test the function of the lift system by pressing the Up button on the RF Remote to raise the system to its full extended position.

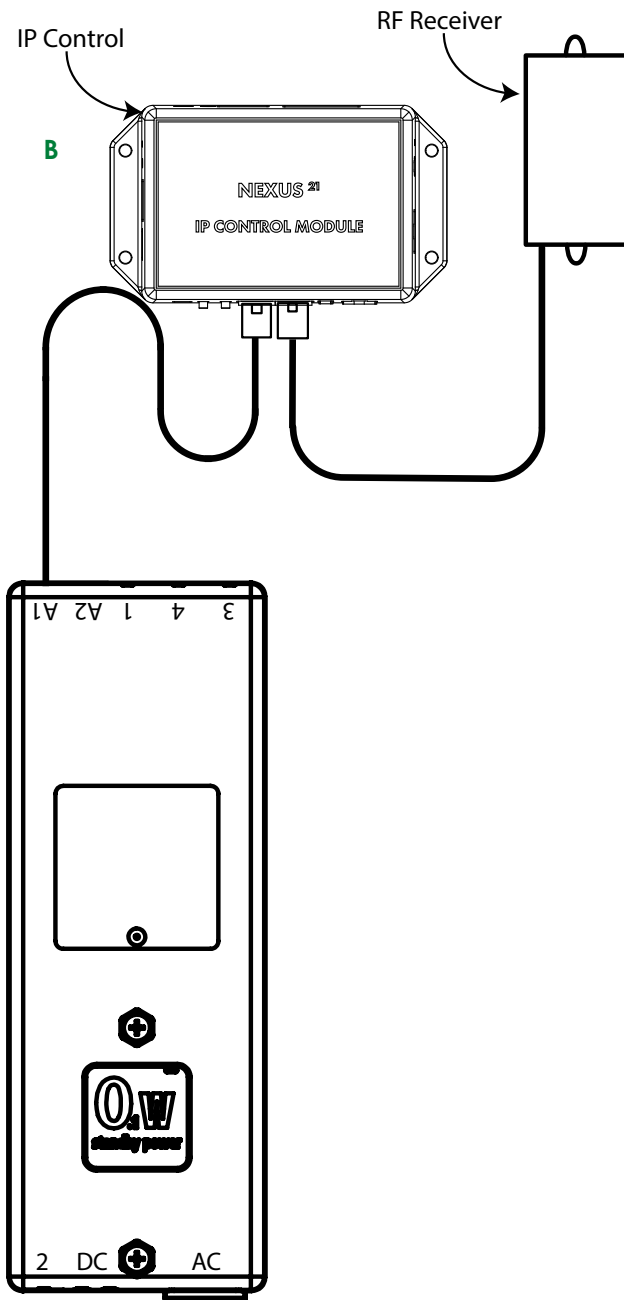
Once the system is extended, it will not be able to be retracted until a later step.



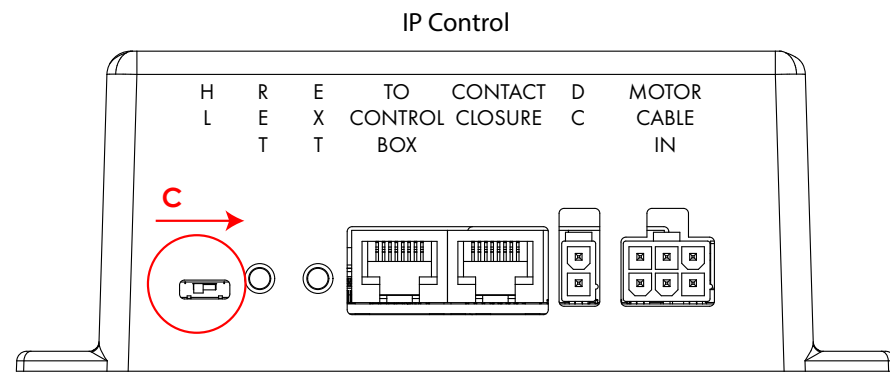
9a. Press the “Up” button on your RF Remote to fully extend the Lift System.

9b. Insert the Height Limit Insert into the open port on the RF Receiver. The Height Limit Insert is found inside of the RF Control Kit.

Note: If this lift will be integrated with IP Control do not complete 9b and see the next page for connection information.



IF USING IP CONTROL MODULE (Optional)

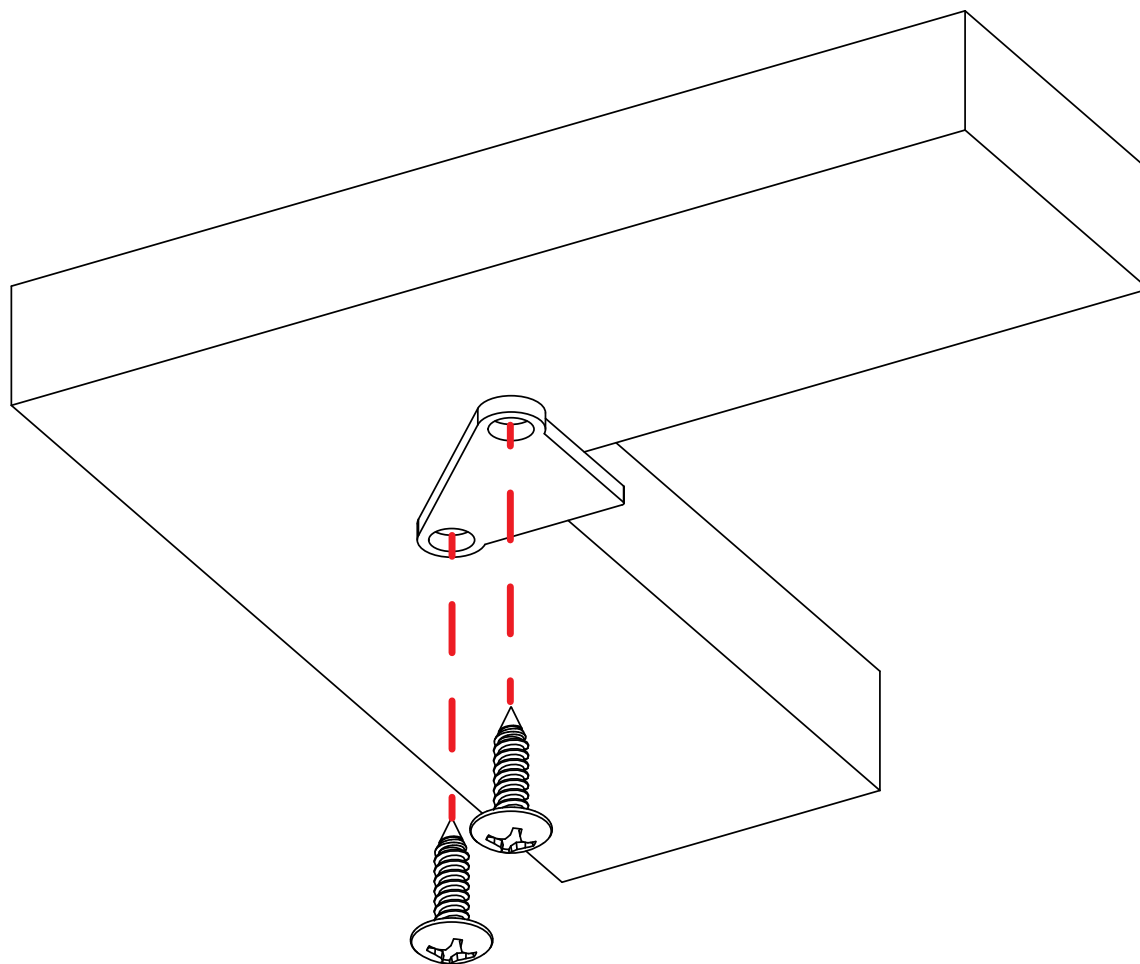


10a. Disconnect the RF Receiver from the Control Box and plug it into the "Contact Closure" Port of the IP Control Module.

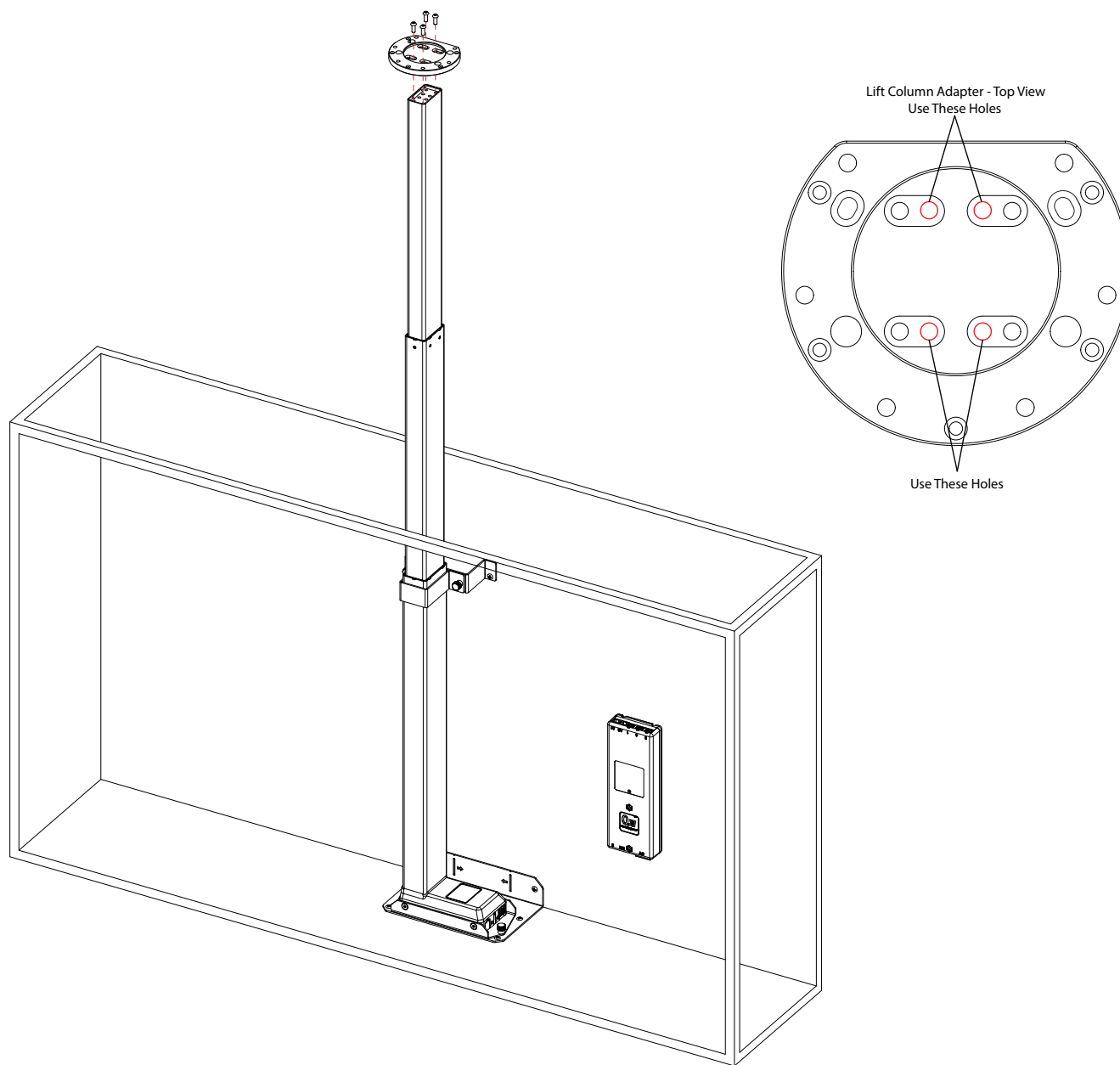
10b. Connect one end of the provided CAT 5 Cable to Port A1 on the Control Box, and the other to the "To Control Box" Port on the IP Control Module.

10c. Slide the switch under "HL" on the IP Control Module to the right to set the Height Limit.

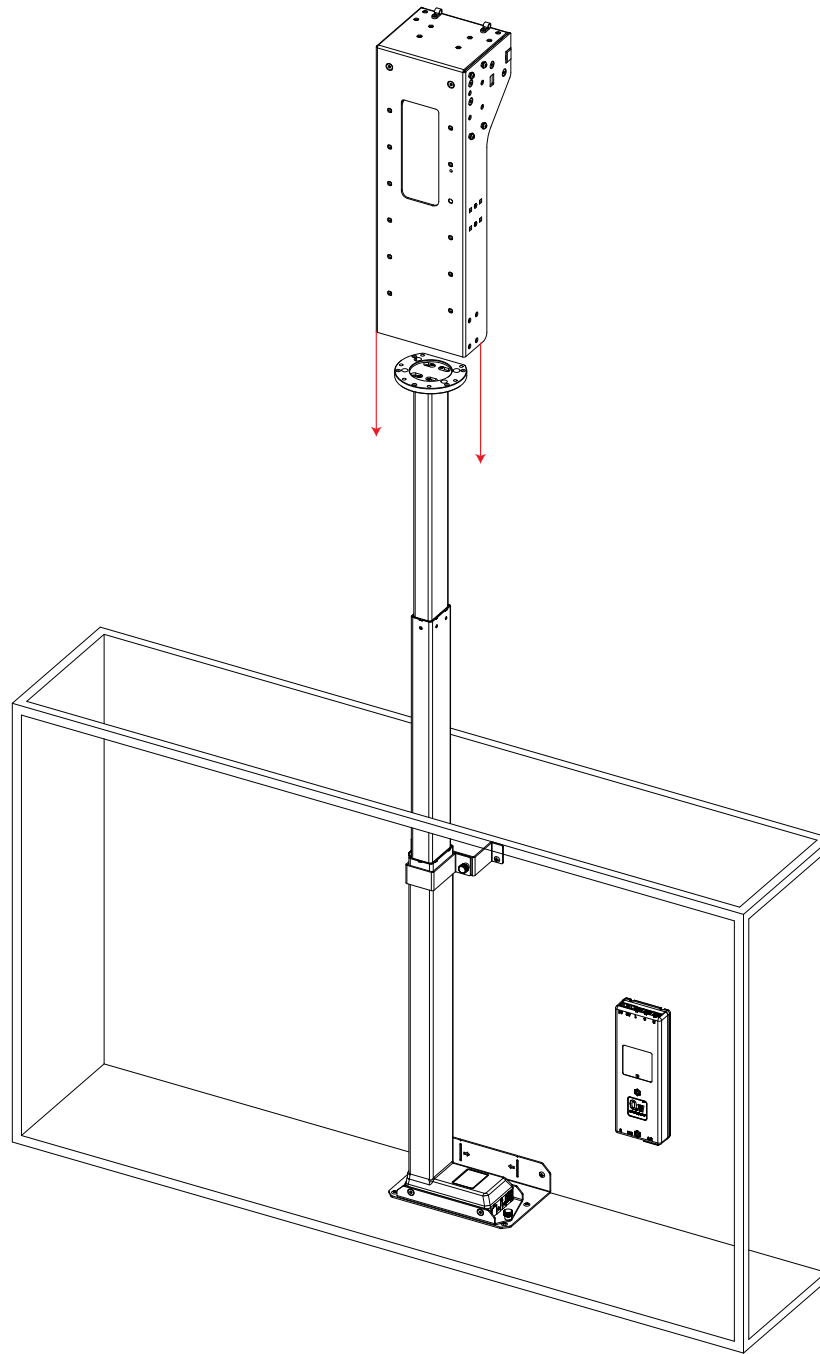
Assembly & Installation Continued



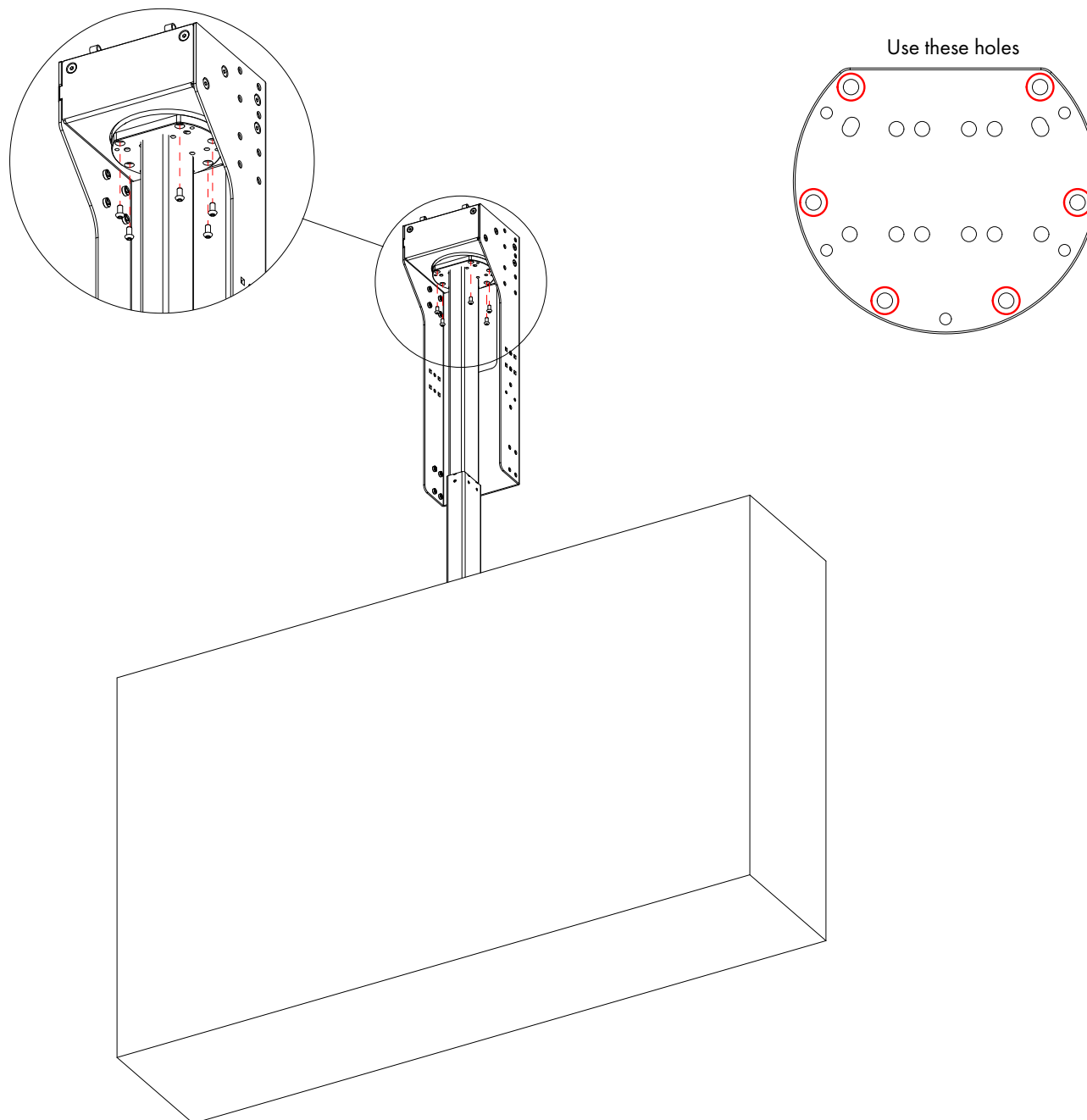
11. If your cabinet does not have a built in Lid-Catch, install the provided Lid Corner Catches from the Hardware Pack in each corner of the cabinet using (8) #10 x 3/4 THWS.



12. Attach the Lift Column Adapter to the top of the Lift Column using (4) M6 x 16 BHMS.

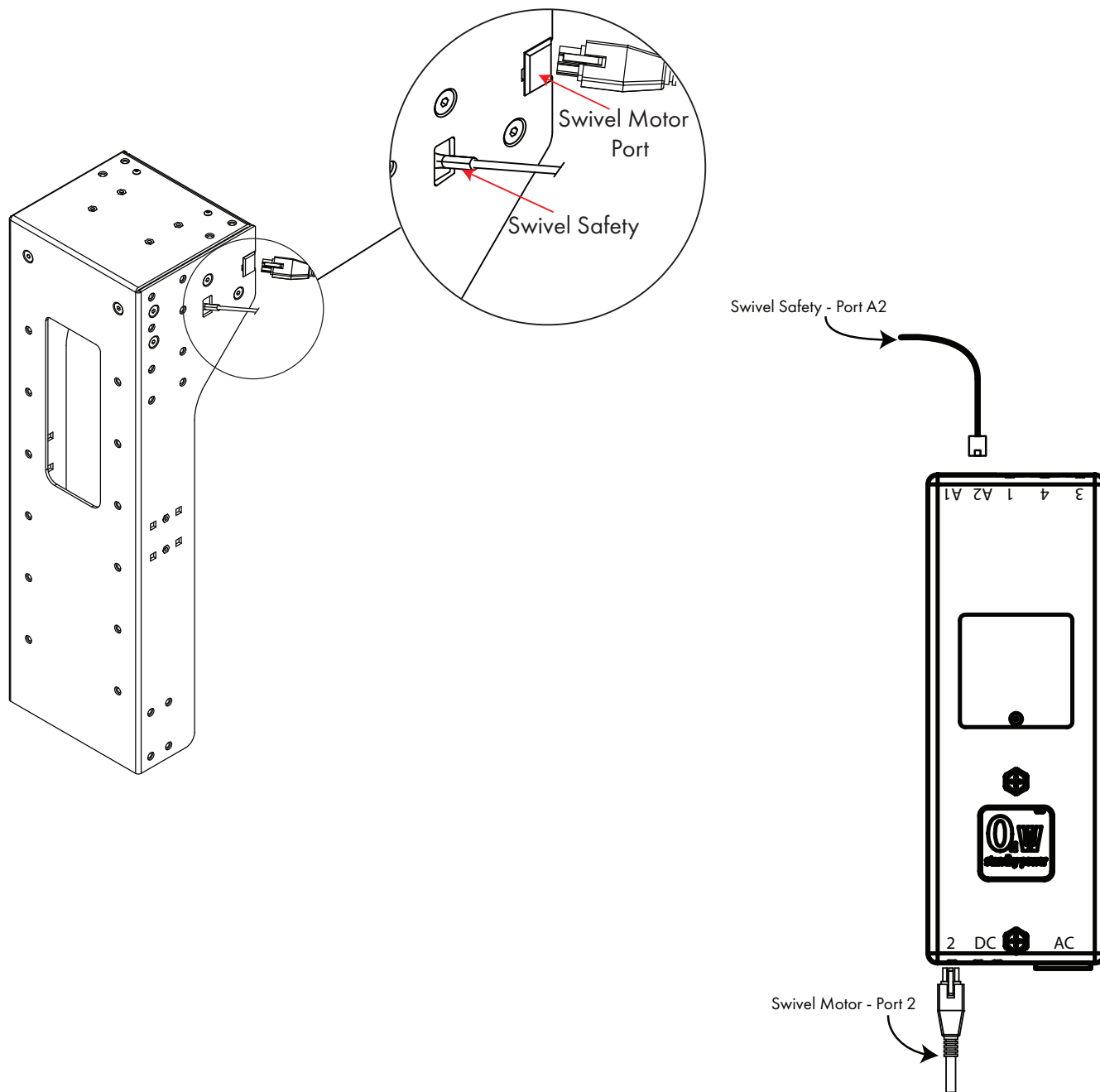


13. Position the Motorized Swivel onto the top of the Lift Column Adapter.



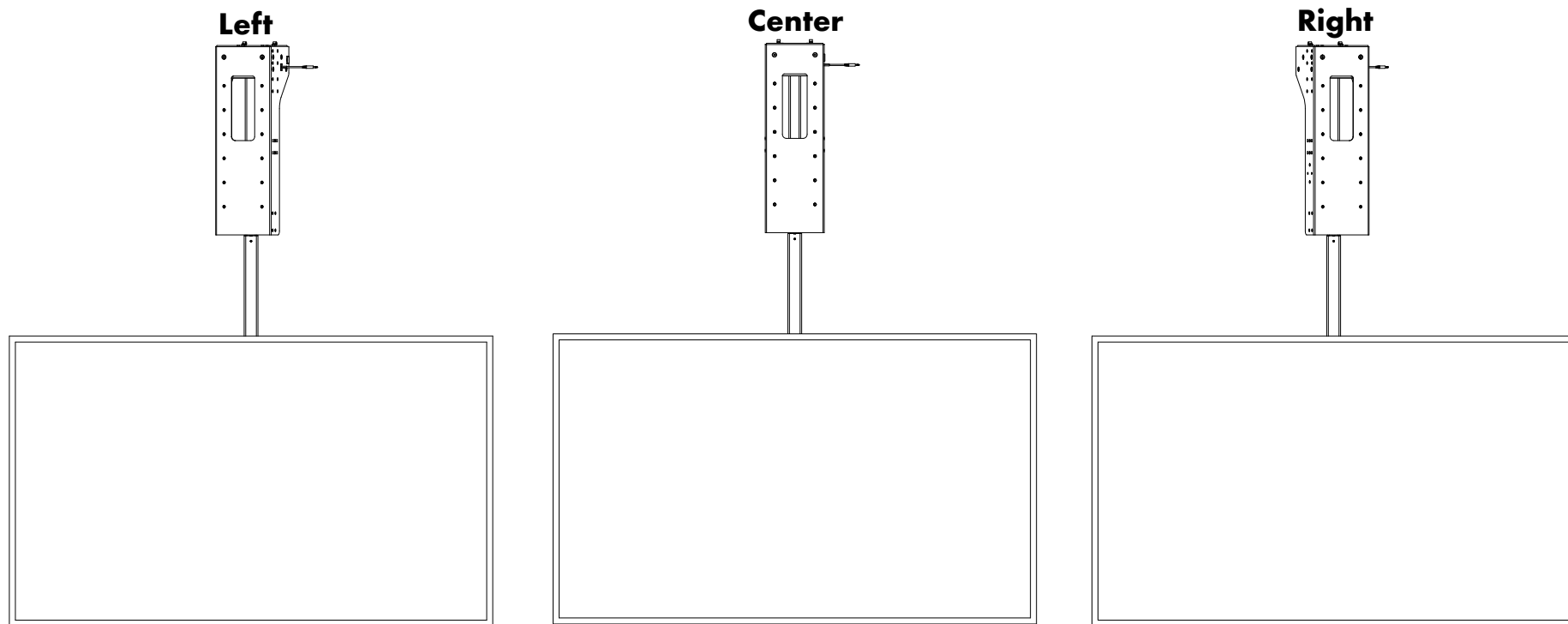
14. Secure the Motorized Swivel to the Lift Column Adapter using (6) M6 x 12 BHMS.

Note: If you cannot reach all 6 of the screws, ensure at least the two in the front and the two in the rear are secured. The remaining two can be secured at a later time.



15a. Connect one end of the Swivel Motor Cable to the side of the Motorized Swivel and the other end to Port 2 on the Control Box.

15b. Connect the Swivel Safety Cable to Port A2 on the Control Box.



16a. Press and hold the “Right” button on the remote for 2 seconds. The system will turn to the right.

Audibly count “One Mississippi...Two Mississippi” then release the button.

16b. Press and hold the “Left” button on the remote for 5 seconds. The system will turn to the left and continue past Center.

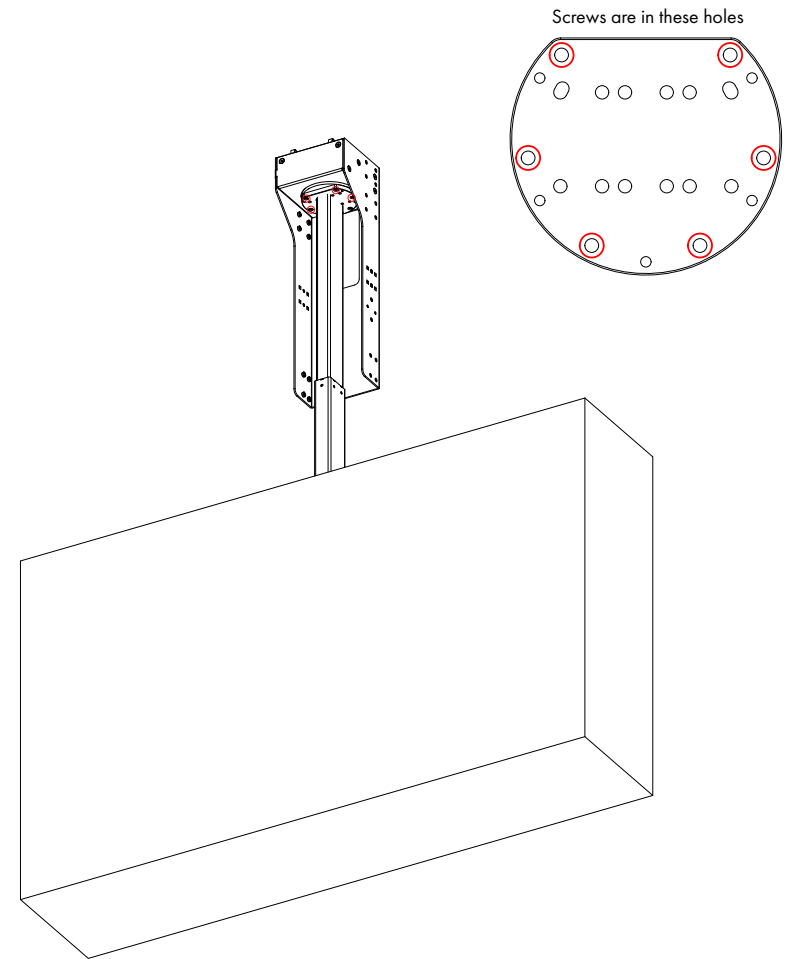
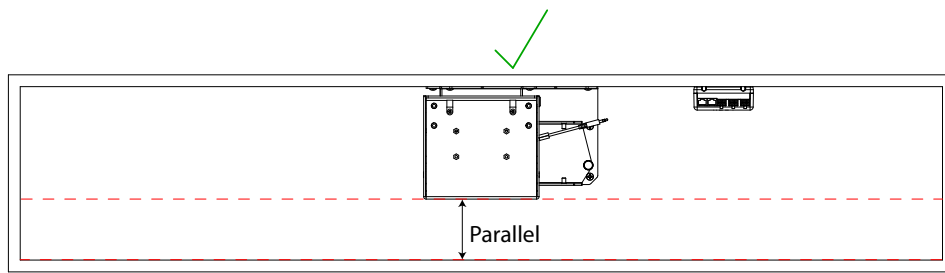
Audibly count “One Mississippi...Two Mississippi...Three Mississippi...Four Mississippi...Five Mississippi” then release the button.

16c. Press and hold the “Right” button on the remote for 5 seconds. The system will turn to the right and continue past Center.

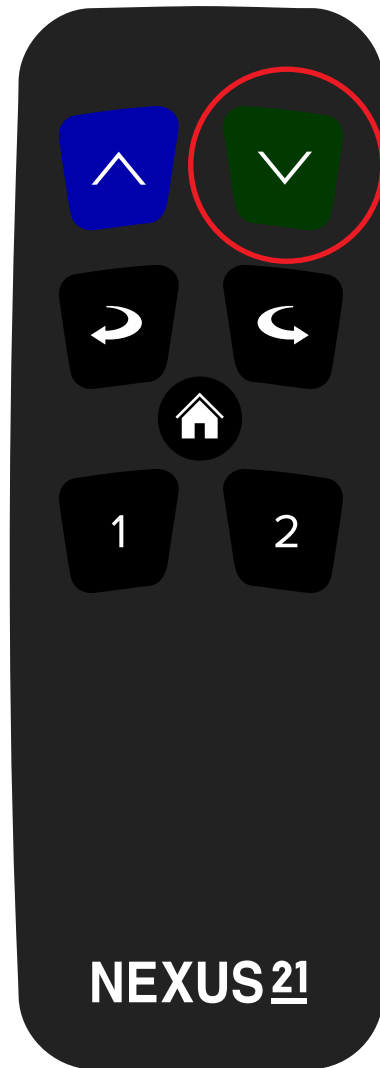
Audibly count “One Mississippi...Two Mississippi...Three Mississippi...Four Mississippi...Five Mississippi” then release the button.

16d. Press and hold the “Left” button on the remote for about 3 seconds. The system will turn to the left and stop Center.

Note: If your system continues to rotate and does not stop at center, contact Nexus 21 Product Support at (480)-306-5462

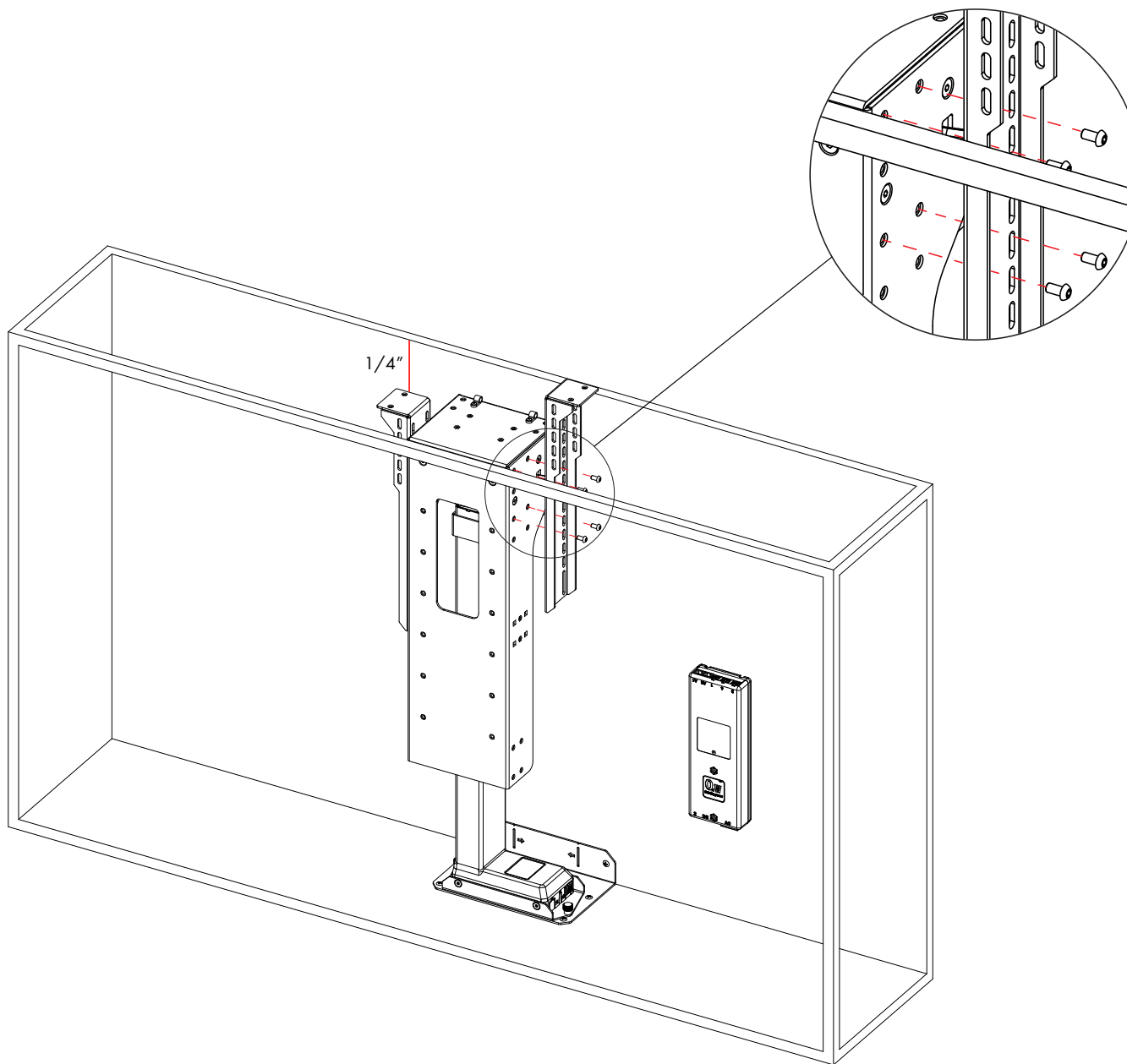


- 16e.** Ensure the Motorized Swivel is square (parallel) relative to your enclosure. If it is not, slightly loosen the bolts on the Lift Column Adapter and square the Motorized Swivel.
- 16f.** Using the Left and Right buttons on your remote, Swivel the lift system and tighten the (6) M6 x 12 BHMS Securing the Motorized Swivel to the Lift Column Adapter.

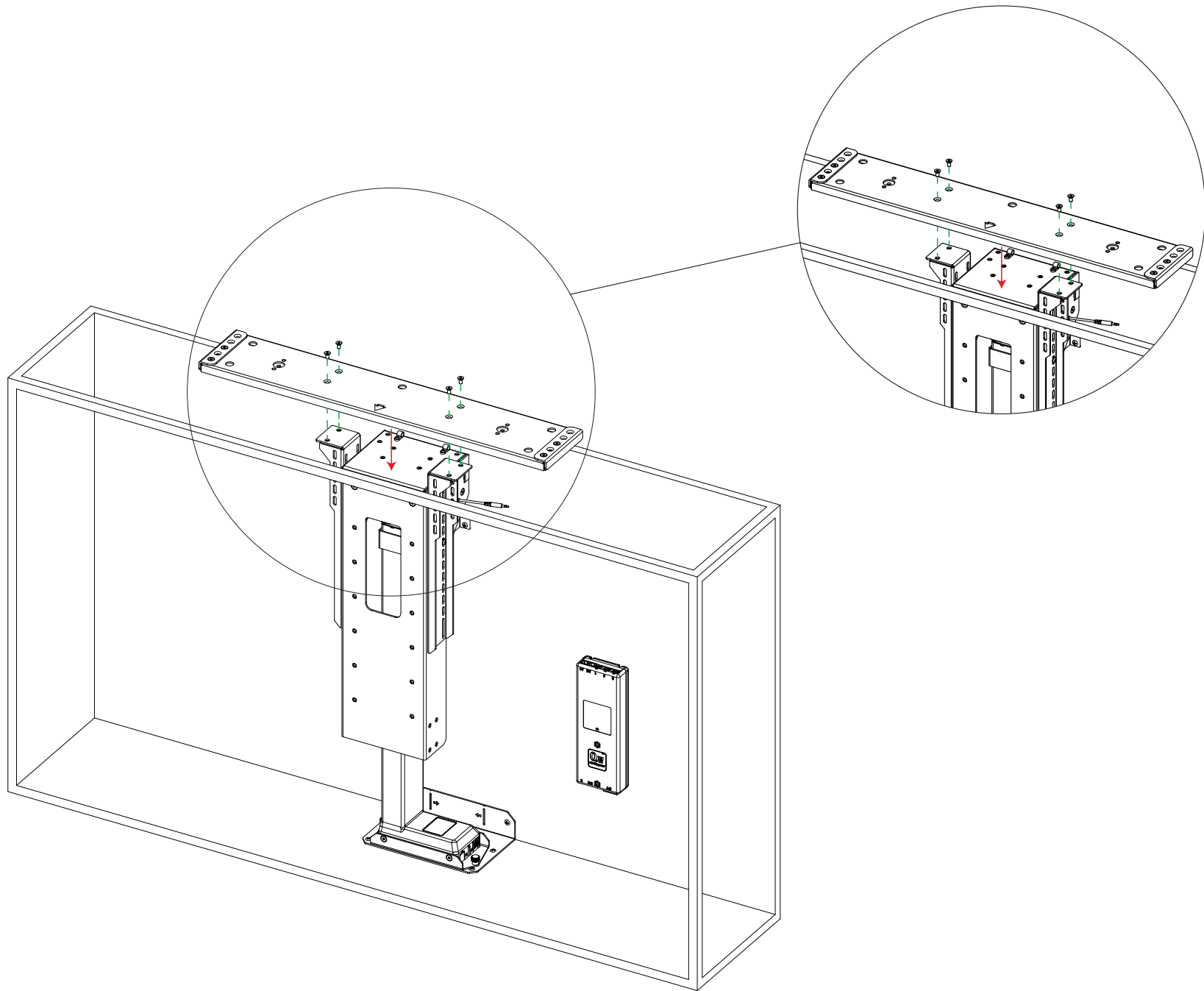


17. Press the Down button on the RF Remote to lower the lift system, release, then press and hold it for 5 seconds to perform an 'Initialize'.

During this time, you should observe a slight movement from your system indicating it has successfully been initialized. If you do not observe this movement, repeat this step.



18. Position your Lid Support Brackets along the left and right sides of the Screen Support so the top of each lid support rests no more than 1/4" from the bottom of the level or straight edge. Attach them using (4) M6 x 12 BHMS per side.

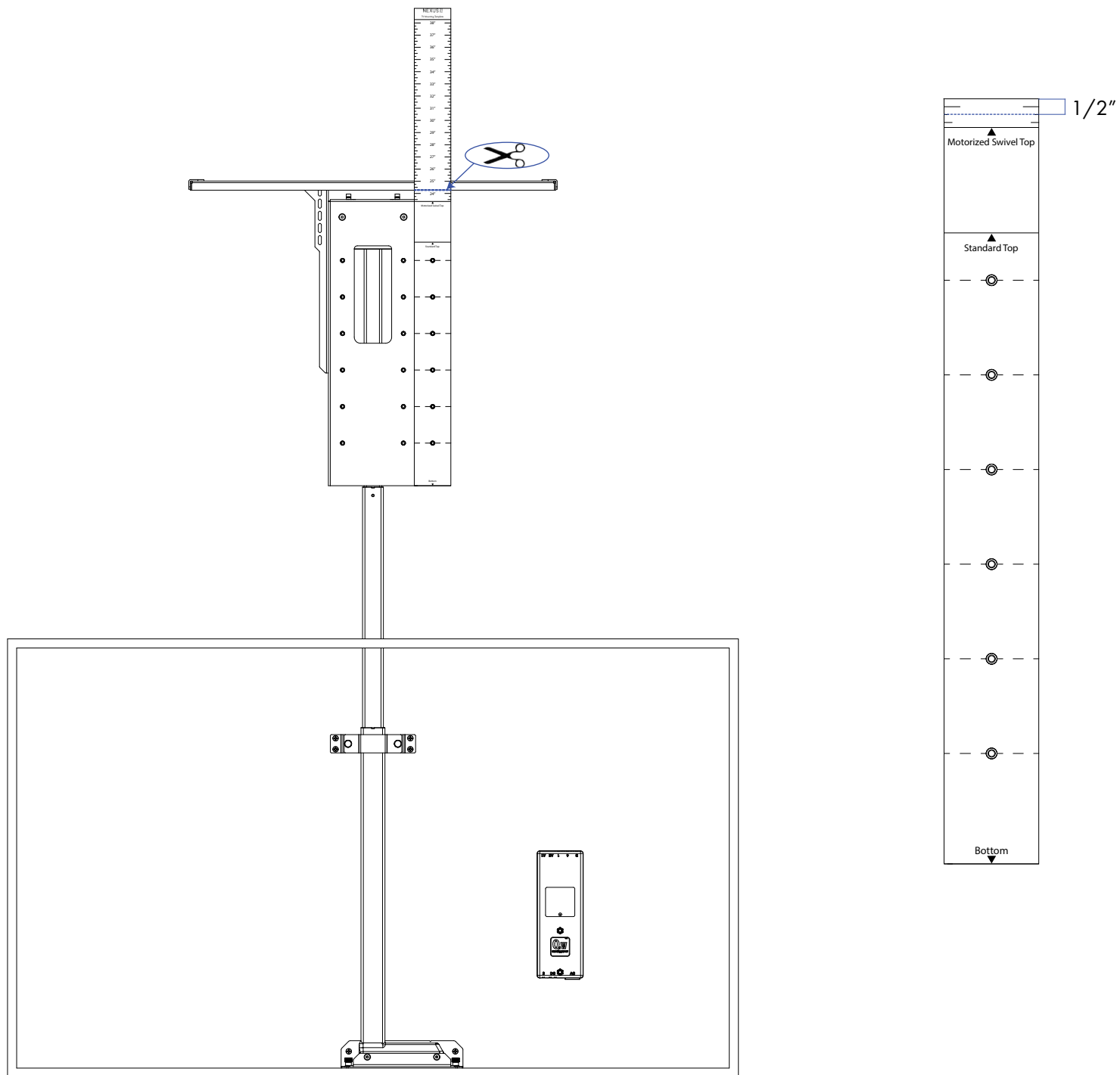


19. Attach the Lid Plate to the Lid Support Brackets using (4) M6 x 12 FHMS.

Note: Ensure the arrow is facing the front of the cabinet.

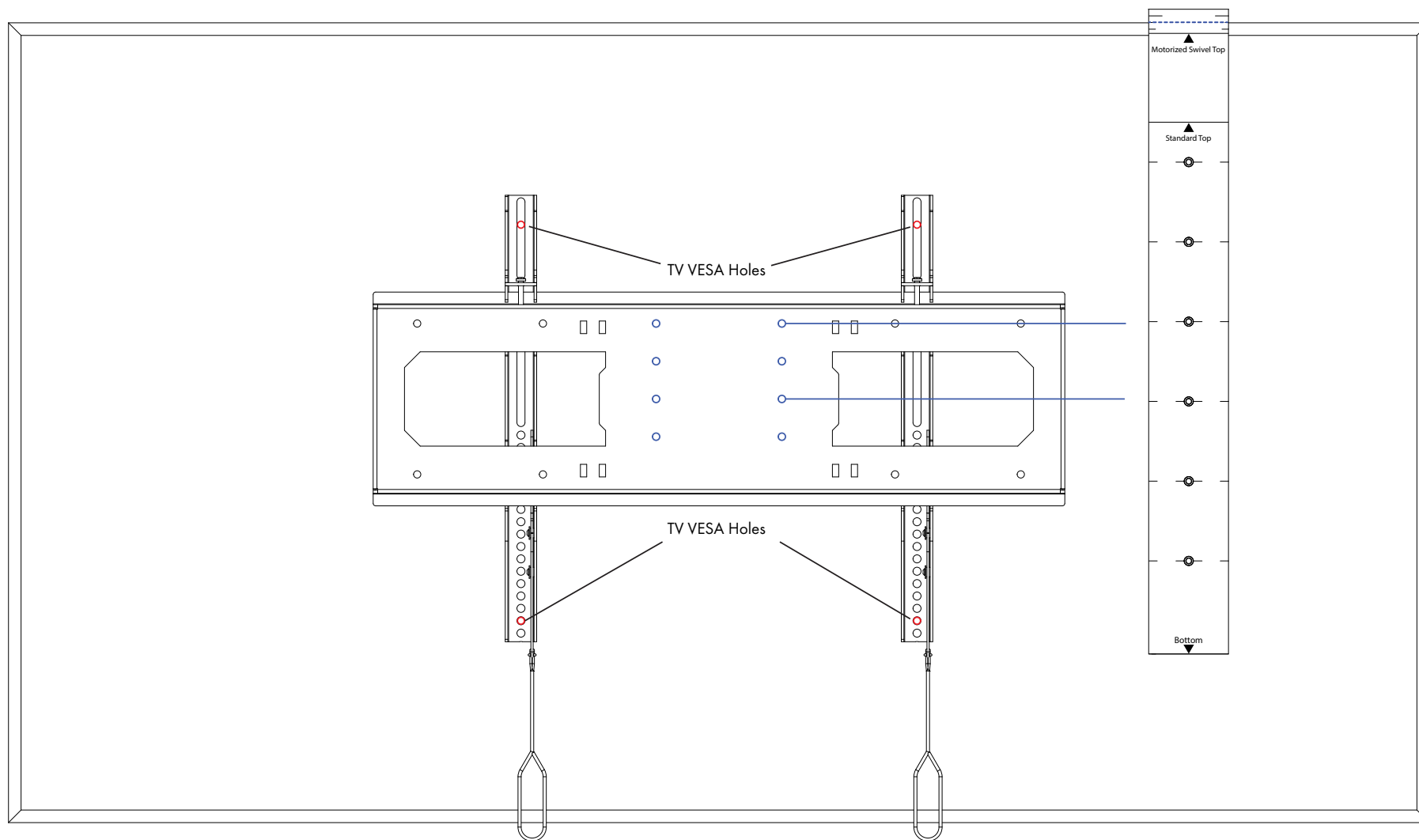
TV Mounting

This section will walk you through mounting your TV to your L-65x Lift System.



20a. Raise your lift, align the template with the holes on the front of the Motorized Swivel, then fold or cut the template to be flush with the bottom of the lid plate.

20b. Measure 1/2" from the new top of the template and draw a line. This line indicates the position for where the top of the TV will be.



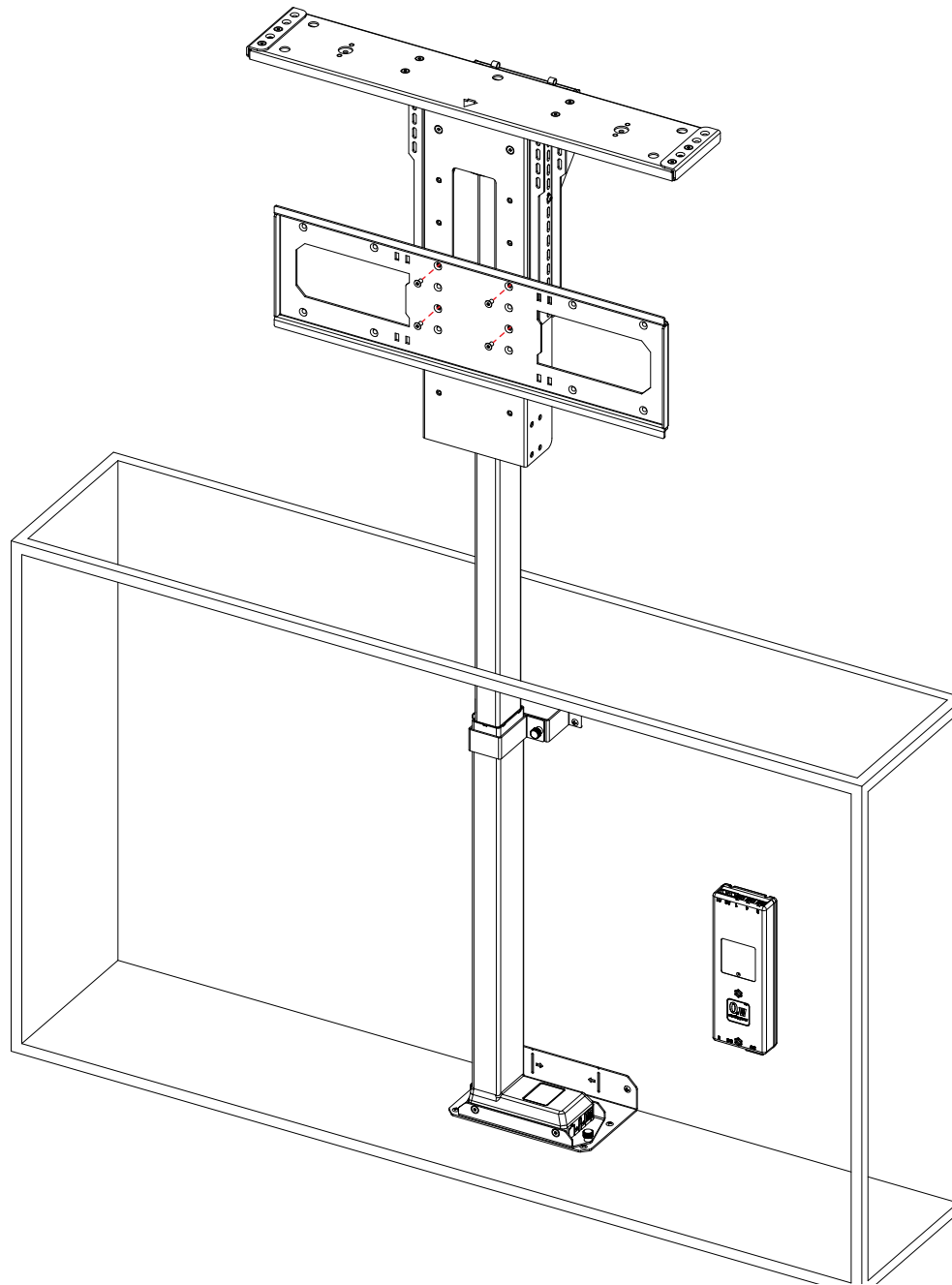
21a. Align the line you just drew with the top of the TV.

21b. Attach the Vertical Mounting Bars to the Screen Backplate, ensuring the spring-loaded latch on each Vertical Mounting Bar is engaged against the Screen Backplate.

21c. Place the Vertical Mounting Bars and Screen Backplate on the back of the TV, position the Vertical Mounting Bars over the VESA holes.

21d. Adjust the vertical position of both until (2) of the holes on the Screen Backplate line up with the lines on the template and the Vertical Mounting Bars align with the VESA holes on your TV. If needed, use the Vertical Mounting Bar Extensions included with the Vertical Mounting Bars.

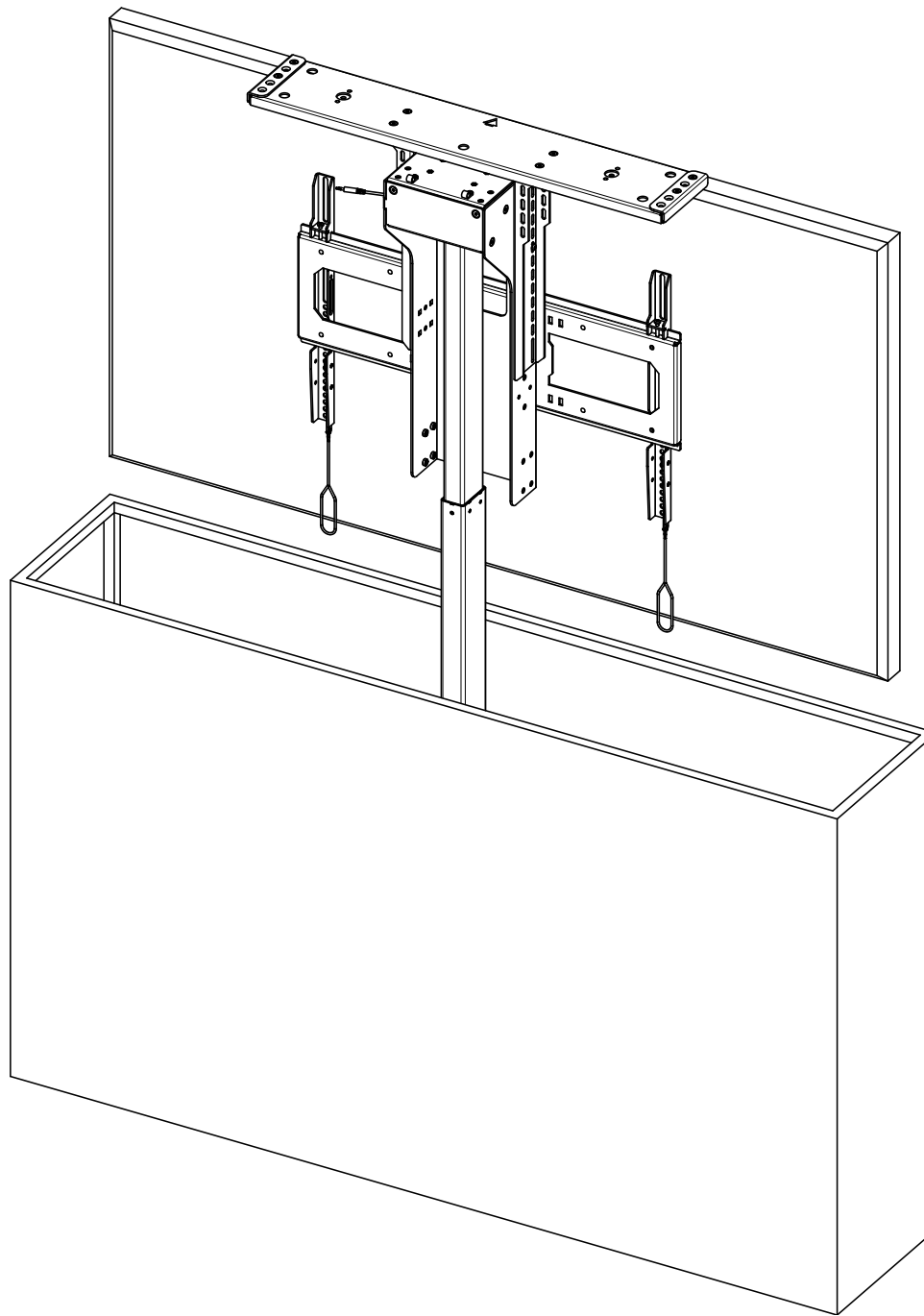
21e. Mark the holes for the Screen Backplate and the hole for mounting your TV on the Vertical Mounting Bars.



22a. Disconnect the Screen Backplate from the Vertical Mounting Bars.

Note: You can disengage the spring-loaded latch on the Vertical Mounting Bars by pulling the straps at the bottom.

22b. Attach the Screen Backplate to the holes on the Motorized Swivel that correspond with the marked holes on your TV Mounting Template using (4) M6 x 12 FHMS.



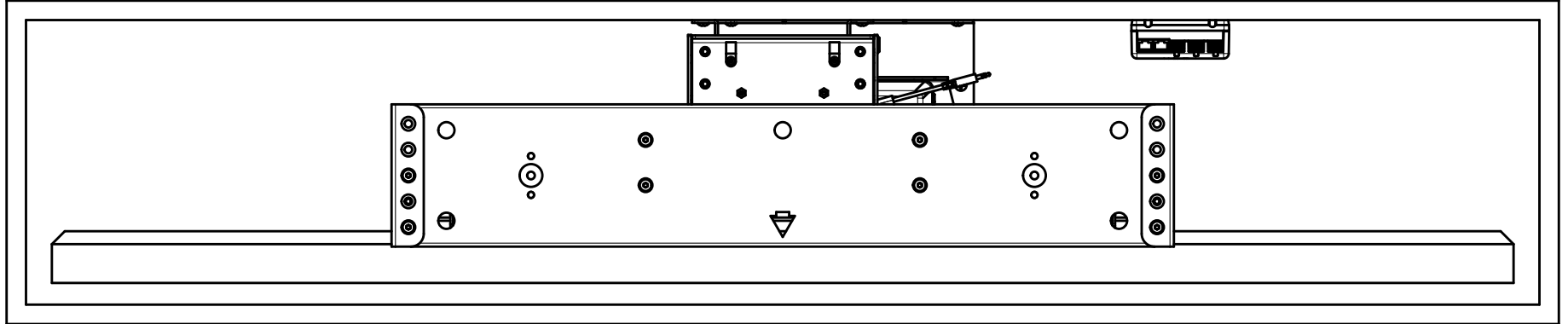
23a. Attach the Vertical Mounting Bars to your TV using the marked holes.

23b. Hang your TV on the Screen Backplate, ensure the spring-loaded latch on each Vertical Mounting Bar is engaged with the Screen Backplate.

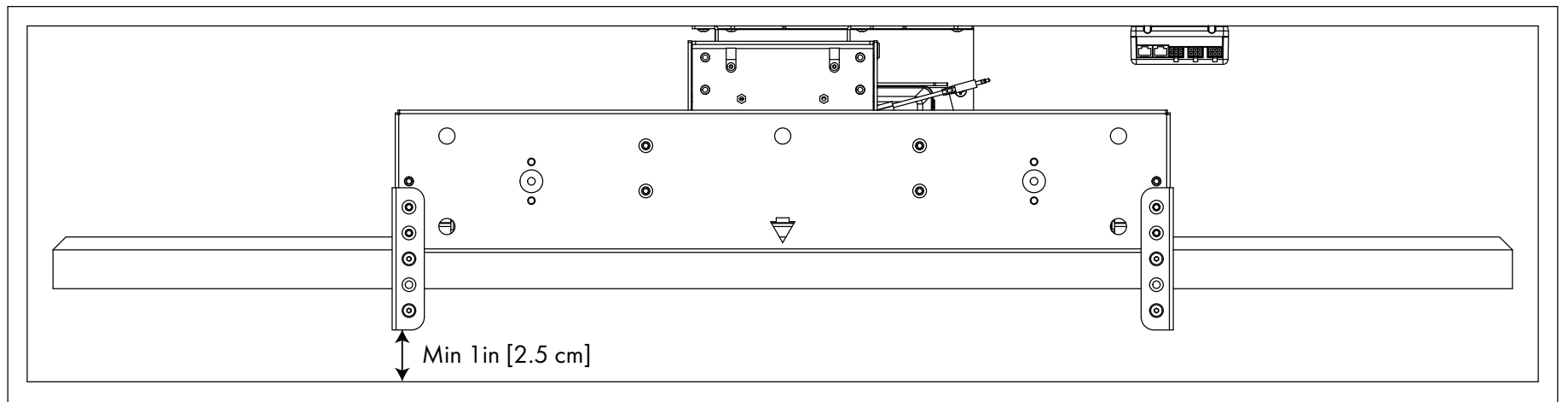
Note: If needed, the level of the TV can be adjusted by tightening the bolts on the back of each Vertical Mounting Bar.

Lid Installation

This section will walk you through installing your lid on your L-65x Lift System.

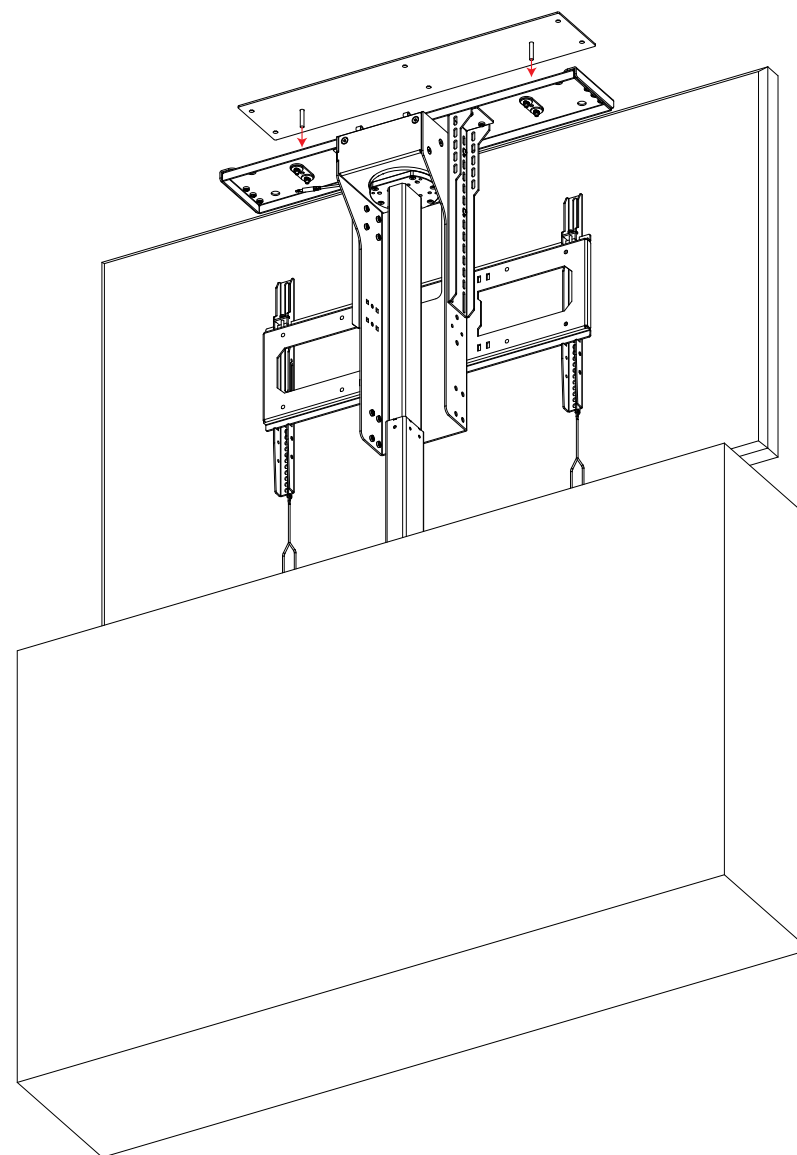
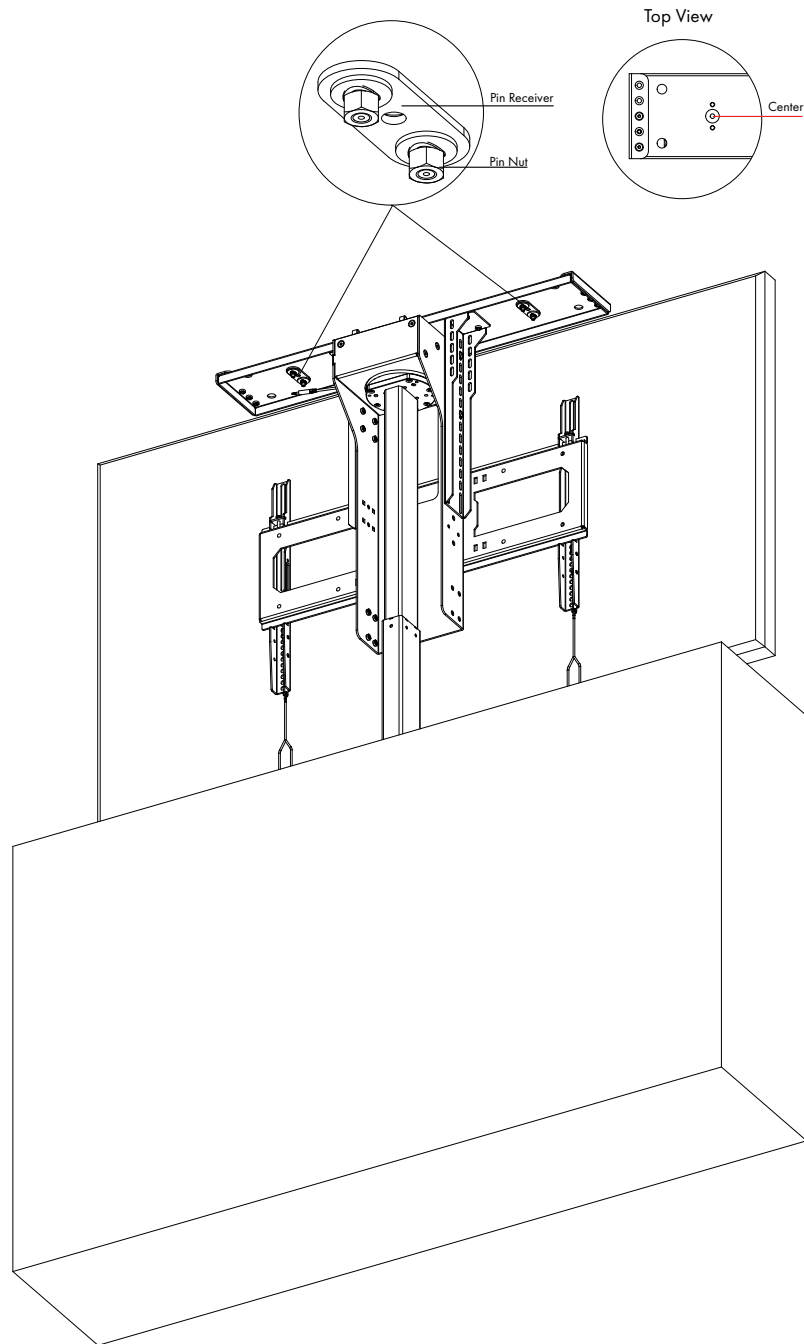


For deeper cabinets, adjust the Lid Plate Extensions



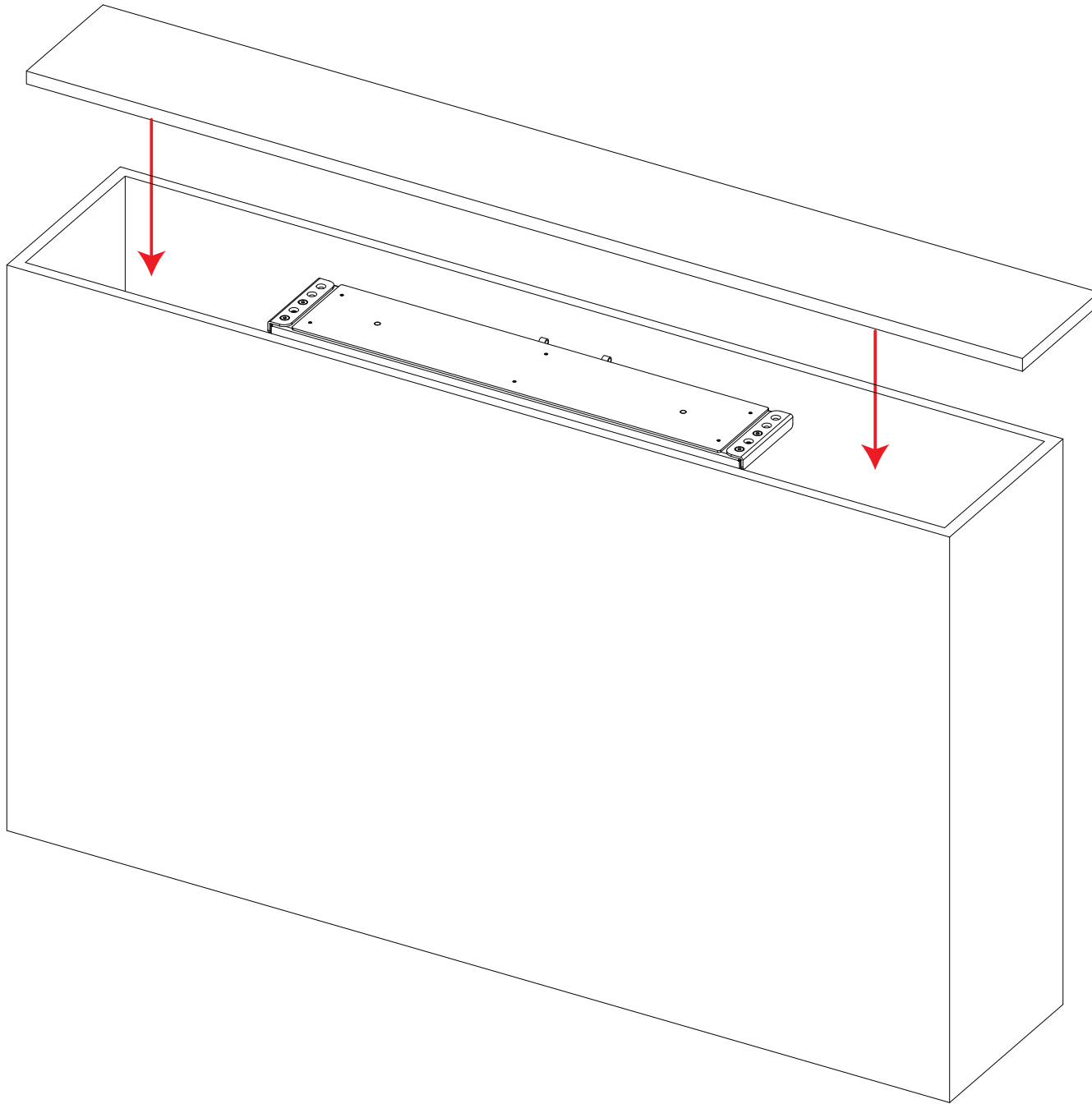
24. Fully Retract your lift system by pressing the Down button on the RF Remote.

Note: If you have a deeper cabinet, remove the (4) M6 x 12 FHMS for the Lid Plate Extensions and adjust them towards the front of the cabinet. Leave at least a 1" gap.

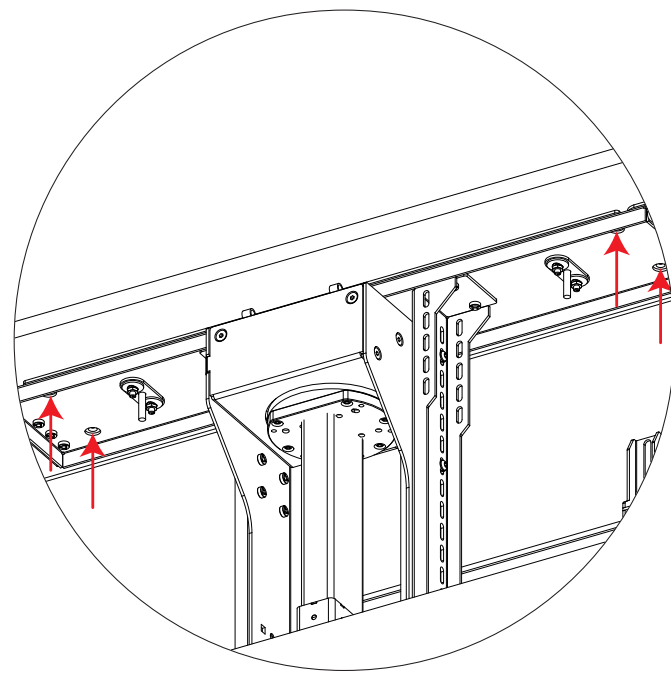
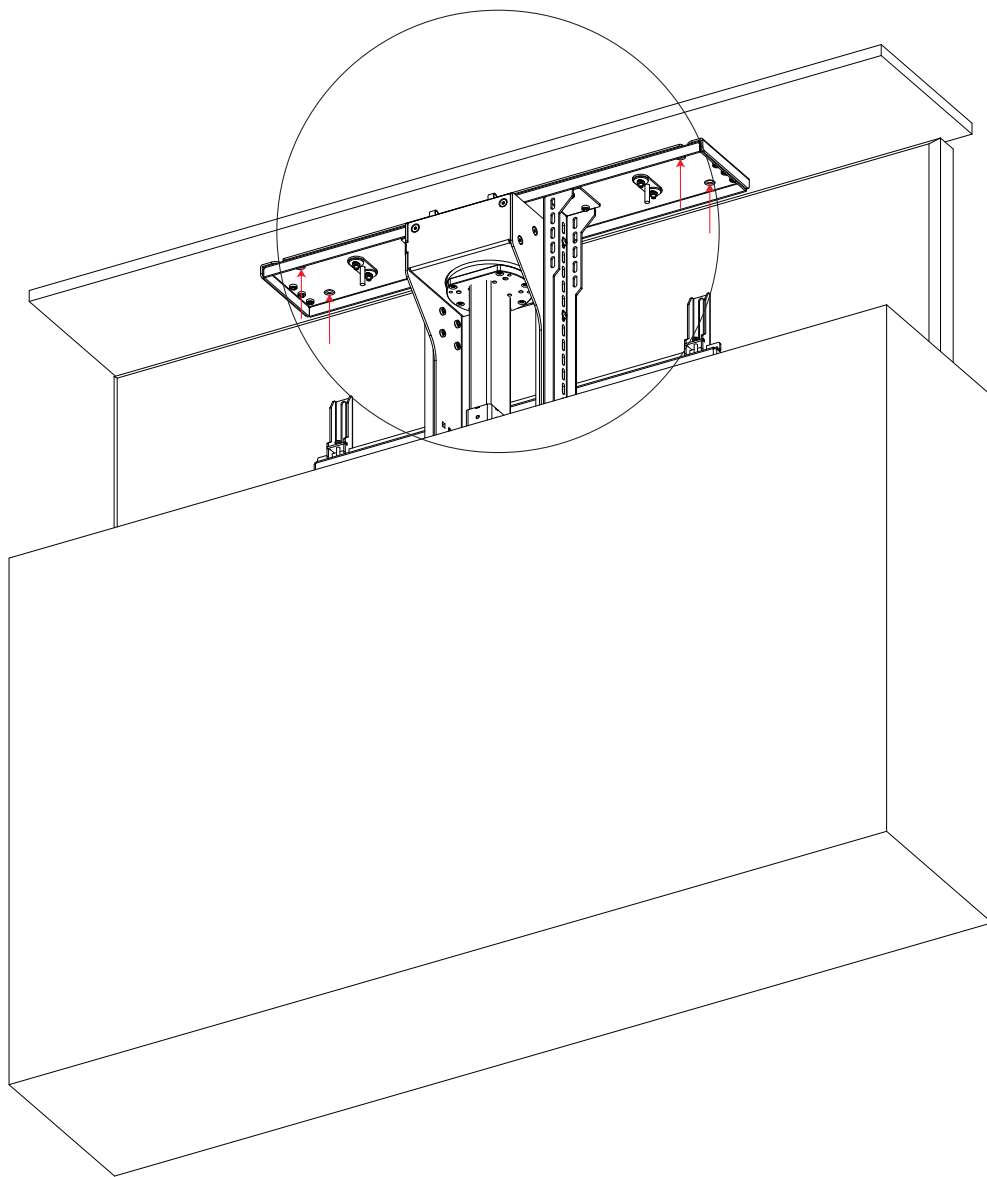


25a. Ensure the holes on the Lid Plate and Pin Receiver are centered with each other. Ensure the Pin Nuts are tight.

25b. Place the Lid Adapter on top of the Lid Plate, align the Lid Pins with the holes on the Pin Receivers.

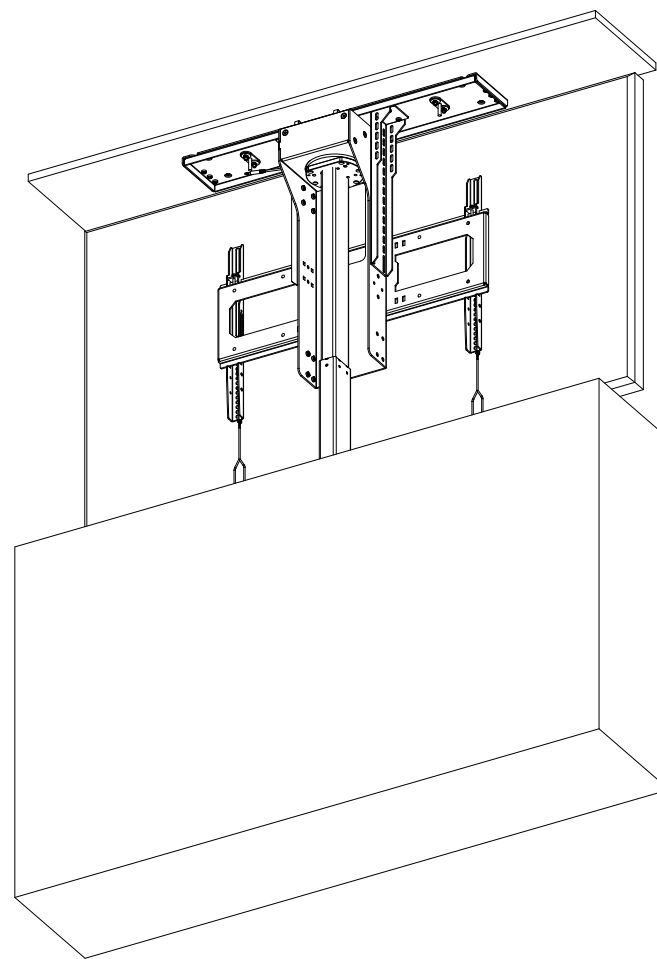
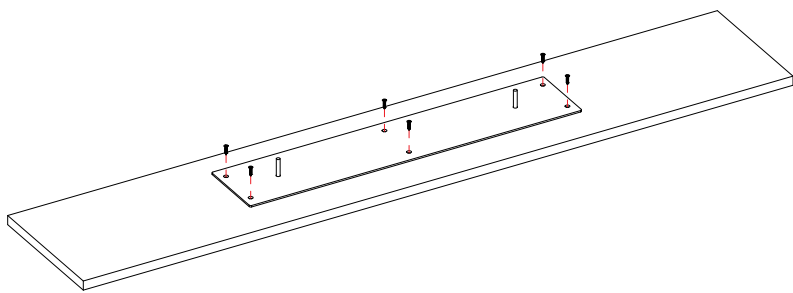


26. Lower the Lift system, then place your lid within the opening of your cabinet so that it rests on the lid catch. Ensure there is an even gap between the lid and the surrounding opening all the way around.



27a. Partially extend your lift system by pressing the “Up” button on the RF Remote until the lift has traveled approximately 18”, then press the “Down” button to stop it.

27b. Mark the 6 holes for the Lid Attachment Points, then remove your lid from the Lid Plate and flip it over.



28a. Align the Lid Adapter with the marked holes then affix your lid to the Lid Adapter using the (6) provided #8 x 3/4 FHWS and countersunk holes.

28b. Place your lid back on top of the Lid Plate and lower your lift system to ensure an even gap all the way around.

Note: If any adjustment is necessary raise the lift, loosen the pin receiver nuts, lower the system, then adjust the lid position until there is an even gap all the way around.

System Setup

Important Information

**The L-65x Lift system must always be configured with the provided RF Remote and Height Limit Insert.
DO NOT DISCARD.**

There are four configureable positions for the L-65x:
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 and Max right Swivel to be a minimum of 5° up to a maximum of 180°.
- 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 how to configure the four positions.

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.

- 29a.** Press and hold the “Left” button to rotate your TV, then release the “Left” button once the TV reaches your desired Max Left Swivel Position.
- 29b.** Press and hold the “Down” and “Home” buttons simultaneously for 5 seconds, then release. The Max Left Swivel has been set.
- 29c.** Press and hold the “Right” button to rotate your TV, then release the “Right” button once the TV reaches your desired Max Right Swivel Position.
- 29d.** Press and hold the “Up” and “Home” buttons simultaneously for 5 seconds, then release. The Max Right Swivel has been set.

Setting the Prest 1 and Preset 2 Positions:

- 30a.** Press and hold the “Left” or “Right” button to swivel the TV and release the button once the TV reaches your desired position.
- 30b.** 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 with the lift fully retracted into the cabinet.

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. 22 to set the Center position followed by the steps on this page to set the Max Left and Max Right Swivel.

For best results, ensure the TV and Lid are removed before resetting the center position.

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

Integration Information

The L-65x 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-65x Lift System. Refer to the included Nexus 21 IP Control User Guide for the details regarding IP Integration.

If you do not wish to integrate your L-65x with a Control System, use the provided RF remote to operate your system instead.

Intentionally Left Blank

Intentionally Left Blank

www.nexus21.com

1 - 888 - 991 - 6166

