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Below is a parts list describing all of the items included with the Model DL-45b Lift System. You may also wish to refer to the diagram shown on "Supplemental Page A" (at the end of this document).

Before beginning assembly and installation, please make sure that you have all items included on the list. If any parts are missing or damaged, please contact Nexus 21. Our contact information is shown at the top of this page.



### Parts List, continued

### <u>Cables</u>

- **Motor Cable** Black cable with white, six-pin plugs. Use this cable to connect the Lift Column to the Control Box (using slot #1 & #2 on the Control Box). Three feet long.
- Power Cable Connects Control Box to power outlet. Three feet long.
- **RF Cable (only present if you ordered the RF version of the Lift System)** Use to connect the RF Receiver to the Control Box. Ends have telephone-style connectors. One foot long.

### <u>Hardware</u>

- 10. Four (4) -- Screen Locks (In bag labeled PDM-0108 Located in box with Part #2 and #3)
- 11. Eight (8) -- 6mm x 12mm Flat Head Machine Screw
- 12. Twenty-Eight (28) -- 6mm x 12mm Button Head Machine Screw (4 Leftover)
- **13.** Four (4) -- 1½" x ¼" Steel Threaded Taper Pins (For Floating Top)
- 14. Sixteen (16) -- 3/8 16 x ¾" Button Head Machine Screw
- **15.** Eight (8) -- 6mm x 16mm Button Head Machine Screw
- 16. Two (2) -- #10 x 1 ¾" Flat Head Wood Screw
- 17. Forty-Four (44) -- #10 x ¾" Truss Head Wood Screw (12 Leftover)
- **18.** Four (4) -- #8 x <sup>3</sup>/<sub>4</sub>" Flat Head Wood Screw (For IR controls only)
- 19. RF Controls or IR Controls (see explanation on page 6)
- 20. Two (2) -- Allen Wrenches 4mm and 7/32"
- **21.** One (1) -- "Snakeskin" Wire Management Sleeve
- 22. Four (4) -- Velcro end Ties, for use with Wire Management Snakeskin
- 23. Four (4) -- Plastic Ties, also for use with Wire Management Snakeskin
- 24. Four (4) -- Square Multi Mount Washers
- 25. Four (4) -- Lid Catch Brackets w/ (8) #10 x ¾" THWS

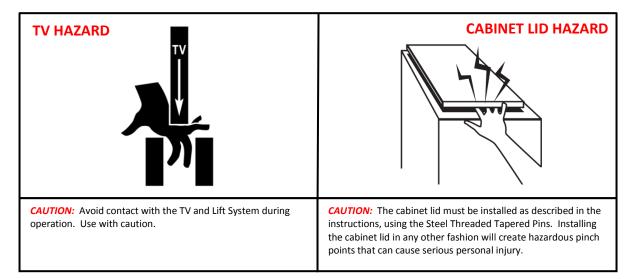
### Wire Management



The Lift System has no exposed gears or moving parts that can damage your wires, so wire management is simple. We have included a 48" SNAKESKIN sleeve, which is a state-of-the-art wire bundling and protection system (the sleeve can be cut shorter if you wish). The System also includes 4 Velcro end ties and 4 plastic ties. Use the Velcro ties at the ends of the SNAKESKIN, to close the ends of the sleeve and to keep the wires together inside it. Use the plastic ties to fasten the cable bundle in a fixed position, so it moves up and down with the lift.

# ▲ SAFETY INFORMATION ▲

# SEVERE PERSONAL INJURY AND PROPERTY DAMAGE CAN RESULT FROM IMPROPER INSTALLATION OR ASSEMBLY. READ THE FOLLOWING WARNINGS BEFORE BEGINNING:



#### 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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### **Types of Controls for Nexus 21 Lift Systems**

All Nexus 21 Lift Systems come standard with a **wireless remote control** and receiver. We offer a choice of two different type of remotes: IR and RF (both of which are explained in detail below). Our standard control type is RF, so unless you specifically requested the IR version when you made your purchase, you probably received the RF controls with this Lift System. The method of installation for each type of remote control is slightly different, so you should now identify which type of remote you have by reading below, and then follow the instructions for that type of remote.

**NOTE:** If you will be using the Lift with a home control system (like the ones made by companies such as Crestron or Control 4) the most common form of control is to WIRE IT DIRECTLY to the relays of your home control system. This direct-wire method is called **Integration by Contact Closure**, and is accomplished by using the Backup Control Switch (Height Limit Switch) that was supplied with the Lift System to connect the Lift to the control unit from your home control system.

## **Before You Begin the Installation: Identify Your Control Type**

**IR (Infrared)** – This control option allows you to utilize a 3<sup>rd</sup> party universal style remote control to raise and lower the TV Lift. Your universal remote will "learn" the IR codes from the provided IR Handset, which will enable you to control the lift. The universal remote will then communicate with the "eye" located on the IR Receiver via your 3<sup>rd</sup> party emitter (or flasher). Instructions for mounting the IR controls are on page 13. Instructions for setting the TV Lift's travel limit are on Supplemental Page B.





**<u>RF</u> (Radio Frequency)** - This system utilizes a wireless remote control handset that sends a radio signal to the RF Receiver. The radio signal can go through cabinet walls and does not require line-of-sight. Instructions for mounting the RF controls are on page 14. Instructions for setting the Lift System travel limit are on Supplemental Page B.

TIP: Planning to integrate the TV Lift with your UNIVERSAL REMOTE CONTROL? The RF version of the Nexus 21 controls won't do it. Switch to IR.

These are the parts included with RF controls:









**Height Limit Insert** 

Integration by Contact Closure – To direct-wire the TV Lift controls to a home control system (Crestron, Control 4, AMX, etc.) you will use the Back-up Control Switch (Height Limit Switch). You won't use any Nexus 21 receiver or handset for this type of control because you will use the handset or control pad that comes with your home control system. Instructions for setting up the System using Contact Closure are on "Supplemental Page C".

# Assembly and Mounting – Things to Think About First

### **SAFETY NOTICE:**

• For proper support, the Lift System MUST NOT be attached to any material that is less than <sup>3</sup>/<sub>4</sub>" thick. This applies to BOTH the back and bottom mounting points.

• The Lift Column is ONLY designed and rated for VERTICAL, NON-INVERTED USE. **DO NOT MOUNT THIS LIFT SYSTEM UPSIDE DOWN or SIDEWAYS (HORIZONTALLY, AS IN A LATERAL MOUNT)!** 

**TIP:** Inverted (drop down) lift systems are available from Nexus 21. Contact Customer Service at (866) 500-5438.

### Space requirements for the DL-45B Lift System are as follows:

Depth = TV Depth x  $2 + 10^{"}$ , or  $16^{"}$  minimum.

Height = TV Height + 2.5", or a minimum of 29.5", whichever is greater.

Width = TV Width + 2", or 43.5" whichever is greater.



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**IMPORTANT NOTE:** The TV must be mounted **as high up as possible inside the cabinet**, so that when the Lift is in the fully "DOWN" position (fully retracted), the top of the TV will be just underneath the lid of the cabinet.

### Lift System height and mounting position:

The Top Support Brackets (Part #8) allow you to adjust the installation height of the Lift up to 8" (in ½" increments) to fit your cabinet height. When fully assembled, the height of the Lift will be a minimum of 29.5" and a maximum of 37.5" with the Top Support Brackets in the highest position. If the inside height of your cabinet is taller than this, you will need to mount the lift higher up inside the cabinet.

About the Cabinet Lid (Cabinet Top)

### SAFETY NOTICE -- REFER TO PAGE 4:

• WARNING! YOU <u>MUST NOT</u> DIRECTLY SCREW THE CABINET LID (TOP) TO THE LIFT SYSTEM!! THIS CREATES HAZARDOUS "PINCH POINTS" AND MAY AFFECT THE OPERATION OF THE LIFT OR CAUSE DAMAGE TO THE CABINET TOP.



<u>/!</u>\

• For floating lids, **DO NOT USE SCREWS to attach the lid to the Lift System**. Instead, use the "Threaded Taper Pins". This will keep the lid firmly in place, but will also allow it to **separate from the lift system** if anything (like a finger) gets in the way when the TV lowers.

### Which Lid Style Will You Use? (There are 2 Different Styles) – Hinged Lid Not Compatible

**<u>Floating Lid (Floating Top)</u>** – The whole top of the cabinet sits on top of the Lift System and raises/lowers with the TV. This is the standard Installation method, using the Top Plate (part #8) and Threaded Taper Pins.

<u>Cut-Out Floating Lid (Top)</u> – You will "cut out" part of your cabinet top, customizing it to the size of your TV. That cut-out lid then sits on top of the Lift System and raises/lowers with the TV. This method uses the Top Plate (part #8) and Threaded Taper Pins, but you must set up a "catch" for the cut-out lid so that when the TV lowers, the lid stops level with the rest of your cabinet top (like a manhole cover).

**NOTE:** There are several different methods for setting up the "catch", but the hardware to do it is not included with the Lift System because it is part of the cabinet. Hardware suggestions include: buy 4 small corner brackets and screw to underside of main top, with edges exposed to catch the corners of the cut-out lid. The same thing can be accomplished with 1" x 1" "cleats", which are strips of hardwood, mounted underneath, with edges exposed to catch the lid.

### You Are Ready to Begin

**Step 1: Inventory the Parts List.** Carefully inspect all items, making sure you have everything in the Parts List on page 1. Be sure to open the Nexus 21 TV Mount carton that includes parts #5 and #6.

**Step 2:** Attach four Foot Plates to both Lift Columns. Using the small allen wrench provided, attach two Foot Plates to each lift column using **eight (8) 6mm x 16mm BHMS,** four (4) per lift column.

Step 2a:



Step 2b:





Step 3b:

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Step 3: Attach both Screen Support Brackets to the top of the Lift Columns. Slide one (1) Screen Support Bracket down on top of each lift column. Using eight (8) 6mm x
16mm BHMS Screws (four screws per Screen Support) fasten each Screen Support to the top of each lift column.





**Step 4: Attach the Top Support Brackets to the Screen Support Brackets.** Measure the interior height of the cabinet, from the base of the cabinet to the bottom side of the lid opening. Use this measurement to figure out exactly what set of holes to use when attaching the Top Support Brackets. The Top Support Brackets should sit  $\frac{1}{2}'' - \frac{3}{4}''$  below where the lid will rest when collapsed. Using **Sixteen (16) 6mm x 12mm BHMS Screws** (four screws per Top Support Bracket) fasten one Top Support Bracket to each of side of both Screen Support Brackets.



Step 5: Attach a Top Plate to each set of Top Support Brackets. Using eight (8) 6mm x 12mm FHMS Screws (four screws per Top Plate) fasten one Top Plate to each set of Top Support Brackets.









Step 6: Attach the Screen Back Plates to the Screen Support Brackets. Using sixteen (16) 3/8" x 16mm BHMS Screws (eight screws per Screen Back Plate) fasten the Screen Back Plates to both of the Screen Support Brackets. Make sure to rotate one lift column, so both lift columns face the opposite direction before you attach the plates. You will want to install each Screen Back Plate so it's centered, or slightly higher than the center, on the back of the TV after the TV is mounted.

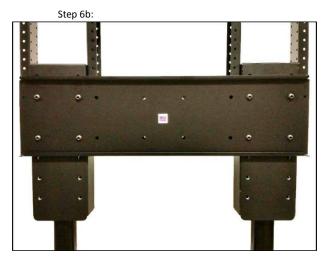


Step 6c:



**Step 7: Position the Lift Columns in the cabinet.** Make sure they are centered from left to right and front to back within your cabinet opening. You may need to twist the lift columns while they rest in the cabinet in order to square the Foot Plate with the cabinet.

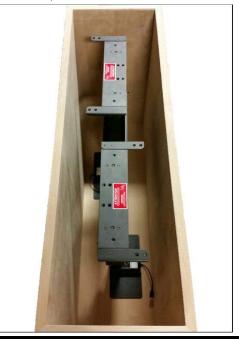




Step 6d:



Step 7b:

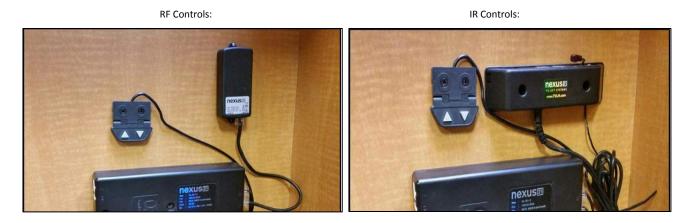


**Step 8: Mount the Foot Plates to the base of the cabinet. Using Twelve (12) #10 x ¾" THWS Screws** (six screws per Foot Plate) fasten both Foot Plates to the base of the cabinet.

**NOTE:** You may need to twist or rotate the lift columns in order to square the Foot Plates with the cabinet walls.

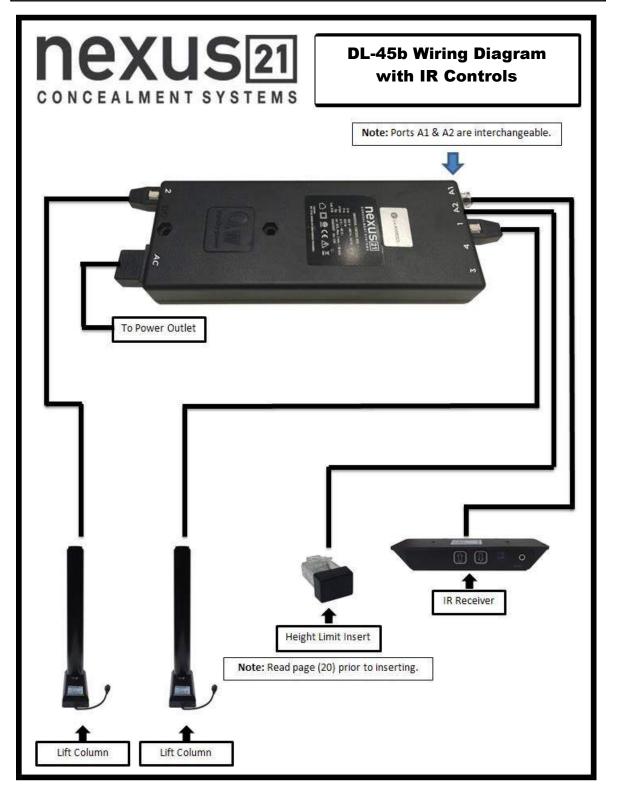


Step 9: Mount the Control Box and controls to the wall at a nearby accessible location: Using (4) #10 x ¾" FHWS mount the Control Box to the wall. Using (2) #8 x ¾" FHWS mount the Wired Back Up Switch. If you ordered IR Controls, then you will use (2) #8 x ¾" FHWS to mount the IR Receiver. If you ordered RF Controls, then you will use (2) #6 x ¾" FHWS to mount the RF Receiver.



Step 10: Connect the cables for the IR Controls & Control Box as noted on the diagram on the following page, or on page 14 for the RF Controls & Control Box.

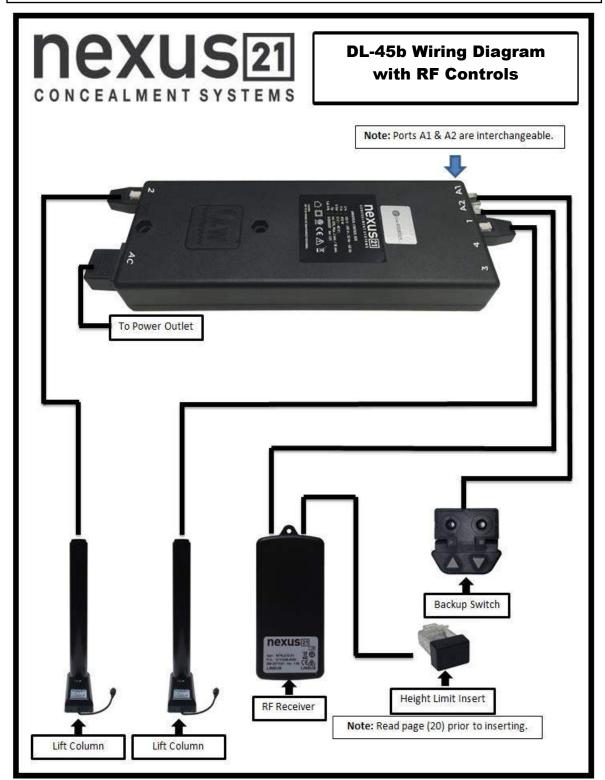
### IF YOU HAVE IR CONTROLS, USE THIS DIAGRAM (for RF Controls, see the following page)



#### Once you have connected the controls, test the Lift Column as follows:

First, you need to "initialize" the Lift System. If you have already raised the Lift Column, lower it again, since this step must be performed in the "down" position. Find the Wired Backup Switch, which has two triangle-shaped buttons - an UP (with raised dot) and a DOWN. Press the DOWN button and HOLD IT DOWN for approximately 5 seconds. You should see a slight movement in the Lift Column. If you do not see the movement, release the Down button, and repeat the process - press and hold the Down button again for 5 seconds. Once you have seen the slight movement, the Lift System is now functional. Test it by pressing the Up button (no need to hold the Up button) and the lift will go up. You may let it go to the top, or stop it at any time by pressing the Down button.

### IF YOU HAVE RF CONTROLS, USE THIS DIAGRAM (for IR Controls, see the previous page)

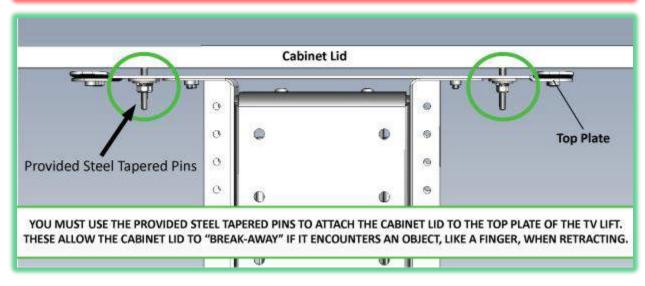


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# Installing the Tapered Pins in the Floating Lid





### What Are the Tapered Pins, and Why Use Them?

The two 1½" x ¼" Steel Threaded Tapered Pins are used IN PLACE OF SCREWS to hold your cabinet top (lid) in place on the Lift System Top Plate (Part #8). The Tapered Pins will keep your lid firmly in place, but will also allow it to **separate from the lift system** if anything (like a finger) gets in the way when the TV lowers. <u>See</u> <u>Safety Notice above. Please do NOT use screws with your cabinet lid.</u>

**Before You Install the Tapered Pins, Here is a Reminder of the Two Types of Floating Lids (Floating Tops): Floating Lid (Floating Top)** – The whole top of the cabinet sits on top of the Lift System and raises/lowers with the TV.

**Cut-Out Floating Lid (Top)** – This option assumes that you have "cut out" part of your cabinet top, customizing it to the size of your TV. That cut-out lid then sits on the Top Plate of the Lift System, held in place by the Taper Pins, and raises/lowers with the TV. You must set up a "catch" for the Cut-Out Lid so that when the TV lowers, the Lid stops level with the rest of your cabinet top (like a manhole cover), and the Lift System continues down a little further into the cabinet (no more than  $\frac{1}{4}$ " to  $\frac{1}{2}$ "). In this way, when the Lift System is fully retracted, the Cut-Out Lid will always be level, and the Top Plate of the Lift System will always be positioned just below the Lid. Since the Lid and the Top Plate are slightly separated from one another, but still very close, the Taper Pins (which are  $\frac{1}{2}$ " long) will still be hanging down through the holes in the Top Plate so when the Lift System moves, everything is properly aligned and the Lid rides smoothly up and down.

### How to Install the Tapered Pins:

You will be screwing the Tapered Pins into the UNDERSIDE of your cabinet lid, and they will hang down and drop into the two holes in the Top Plate (Part #7).

**Step 11: Before installing the Tapered Pins, position the Cabinet Lid.** With the Lift System in the fully DOWN position, make sure the Top Plate is within ½" from the bottom side of the lid. Place the Lid on the cabinet and move it around on the Top Plate, making sure it fits centered in the cabinet opening.



**Step 13: Mark the spots for the Tapered Pins.** Again, without bumping the Cabinet Lid out of place, run the Lift System all the way UP, with the Cabinet Lid sitting on top. Look at the UNDERSIDE of the Top Plate, find the two holes, and use a felt-tip pen or a pencil to mark the position of the holes on the underside surface of the Cabinet Lid.

Step 12: Run the Lift System up and down with the Cabinet Lid sitting on top, but not attached. Without bumping the Cabinet Lid out of place, use the Remote Control Handset to send the Lift System up and down. Make sure that when the Lift comes down, the Cabinet Lid drops into the proper position relative to your cabinet opening.

**NOTE:** You may want to temporally tape your lid to the Top Plates, to prevent the lid from shifting. Step 13:



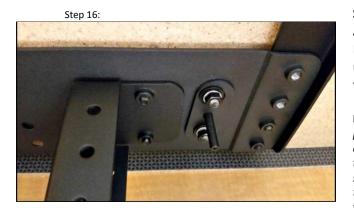
**NOTE:** Make sure the nuts on the bottom side of the Top Plate are hand tight and centered before you mark your lid.

**Step 14:** Remove Cabinet Lid and drill two holes in the marked positions. Use a 7/32'' drill bit to drill two holes,  $\frac{1}{2}''$  deep, in the underside of the Cabinet Top where you have marked.



Step 15: Using a Phillips head screw driver (not provided) screw each Tapered Pin into the holes drilled in step 16.





**Step 17: Attach the Vertical Mounting Bars to the TV.** Before you begin, hand thread

screws (found in bag labeled "TV Mounting Screws/Spacers") into the threaded inserts on the back of both TV's to determine the correct screw diameter (M6 or M8). The length of the screw required will depend on whether the TV has a flat/unobstructed or irregular/obstructed back. Follow diagram "A" for TV's with flat/unobstructed back. Use diagram "B" for TV's with irregular/ obstructed back. The diagrams can be found

on the following page.

**Step 16: Place the Cabinet Lid onto the Lift System.** Align the Tapered Pins with the 2 holes in the Top Plate and put the Lid on. Tighten the nuts on the underside of the hole where the Tapered Pins pass through the Top Plate.

**NOTE:** You will have a ¼" tolerance (in all directions) for the placement of the Tapered Pins into your cabinet lid. There are a set of nuts on the underside of the Top Plate that allow you to adjust the position of the hole that the Tapered Pins will pass through to secure the cabinet lid to the Top Plate. If you happen to position the Tapered Pins a few millimeters off from your intended position, you can still make adjustments to fit properly.

Step 17:



**Step 18: Mount the TVs (with the Vertical Mounting Bars attached) to the Screen Back Plates.** Each Vertical Mounting Bar has "hooks" on either end that allow the bars to "hang" on the Screen Back Plate. Lift both TVs onto the Screen Back Plates. Center both TVs. Be sure that both the upper and lower set of "hooks" fully engages with the Screen Back Plates.

**Step 19a: Insert the Screen Locks into both sets of Vertical Mounting Bars.** The Screen Locks will be placed into the lower "hook" that is just below the Screen Back Plate.



Step 19b: Using a Phillips head screwdriver, tighten both sets of Screen Lock screws into the underside of the Screen Back Plates. This will lock your TVs onto the TV Lift. You have now successfully attached your TVs.



Step 20: Do a final wire management check. Test operate the Lift and be sure that all wires are clear of the Lift so they do not get "hung up" when the TV's are moving either up or down.

Congratulations your DL-45b Lift System is now completed!

# Mounting the TV to the Lift

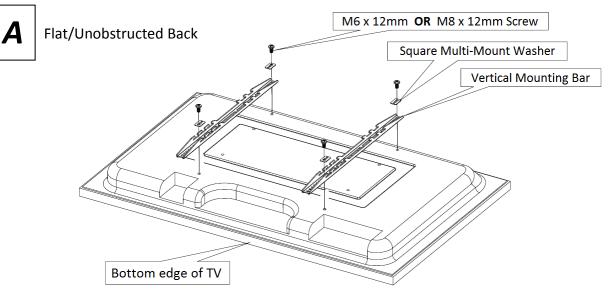


Diagram "A" installation procedure:

1) Place the flat screen TV face down on a protected surface.

2) Position the Vertical Mounting Bars equidistant from the bottom and top of the TV, with the slots facing toward the top of the TV.

3) Using the four (4) Square Multi-Mount washers and the TV mounting screws selected from the bag, attach and tighten the hardware. **DO NOT OVERTIGTHEN HARDWARE. DAMAGE TO TV MAY RESULT.** 

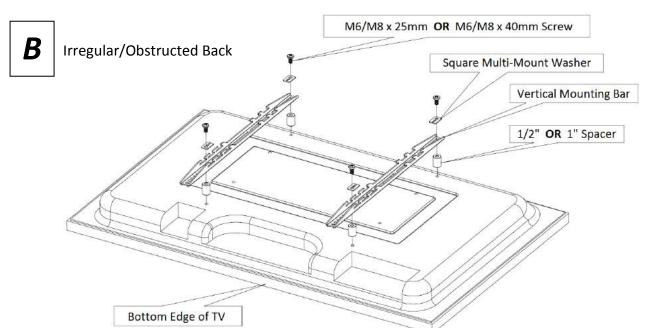


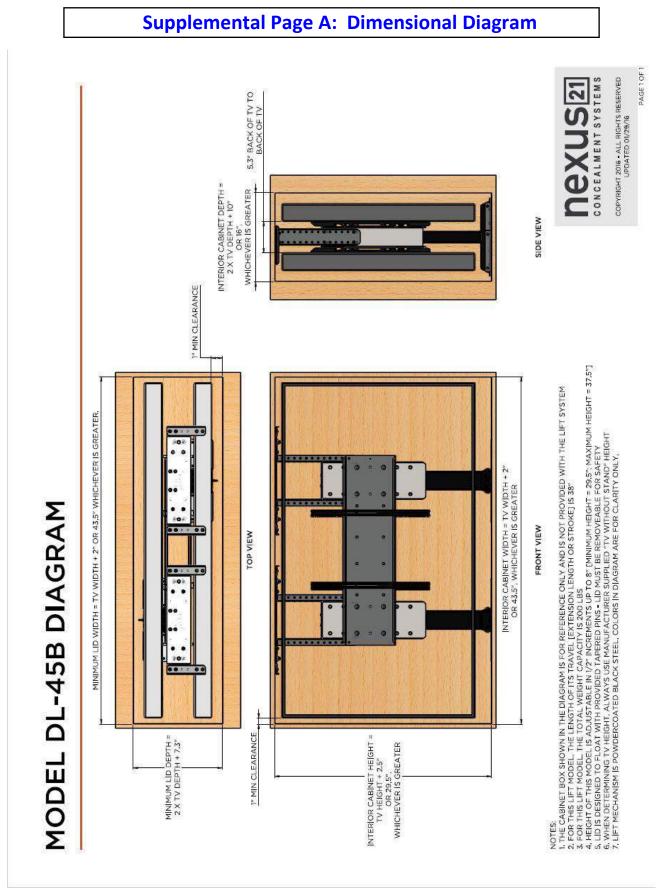
Diagram "B" installation procedure:

1) Place the flat screen TV face down on a protected surface.

2) Position the Vertical Mounting Bars equidistant from the bottom and top of the TV, with the slots facing toward the top of the TV.

3) Using the four (4) spacers needed, (4) Square Multi-Mount washers and the TV mounting screws selected from the bag, attach and tighten the hardware. The hardware will be used in this order (as shown in the diagram above): TV, Spacers, Vertical Mounting Bars, Square Multi-Mount Washers, TV Mounting Screws.

DO NOT OVERTIGTHEN HARDWARE. DAMAGE TO TV MAY RESULT.



# Supplemental Page B: Setting a Height Limit

Please follow this procedure if you would like to limit the distance that your TV Lift extends.

### To set your Travel Limit with IR Controls:

If you want the lift system to always go to its full extension, do NOT use the Height Limit Insert. Simply leave it unplugged and the system will always travel to the full extension. To limit the travel, follow the procedure below:

If you want the lift system to always go to its full extension, do NOT use the Height Limit Insert. Simply leave it unplugged and



1. Using the IR Receiver, run the lift system to height limit position and stop it there.

2. With the lift system stopped, plug the Height Limit Insert into the available RJ45 port on the Control Box. This will set the height limit at this position for both the IR Remote (or 3<sup>rd</sup> party universal remote) and the IR Receiver.

3. If the height limit is set at the incorrect position, remove the Height Limit insert and repeat the procedure.

#### To set your Travel Limit with RF Controls:

the system will always travel to the full extension. To limit the travel, follow the procedure below: 1. Using the Wired Backup Switch, run the lift **RF** Receiver **Control Box** it there. Switch.

system to the ideal height limit position and stop

2. With the lift system stopped, plug the Height Limit Insert into the available RJ45 port on the RF Receiver. This will set the height limit at this position for both the RF Remote and Backup

3. If the height limit is set at the incorrect osition, remove the Height Limit insert and repeat the procedure.

**Height Limit Insert** 

# Supplemental Page C: Connect the Lift to Home Control System

# **Connecting the Nexus 21 Lift System to Other Control Systems**

Use these instructions if you need to wire the Lift System directly to a Home Control System, like those made by Crestron, AMX, Control 4, RTI, etc. A common term for this method of integration is "connection by contact closure."

#### Step 1: Contact Closure Hardware Pack

This pack contains the following parts:

- 1 Contact Closure Cable, RJ-45 to Relays
- 1 Height limit Insert

#### Contents of Contact Closure Hardware Pack:



Contact Closure Cable, RJ-45 to Relays



#### Step 2: Connecting the Lift System to the Control System

Using the *Contact Closure Cable* to connect the three wires directly to the relays on your control module (see image below). Then connect the RJ-45 plug on the *Contact Closure Cable* to the Nexus 21 system, using either one of the two RJ-45 ports on the side of the Nexus 21 *Control Box*.

#### The colored wires function as follows:

BLUE = common (Pin 4 from RJ45) GREEN = Extend (Pin 5 from RJ45) RED = Retract (Pin 8 from RJ45) Wire combinations for the relays:

The lift system uses two relays. One for "extend" and one for "retract." The common wire runs between both relays, by using the **BLUE** common wire, together with a jumper wire you supply.

Relay 1 Extend: BLUE common wire with GREEN normally open. Relay 2 Retract: BLUE common wire (use jumper) with RED normally open.



Close-up View of RJ-45 Pins



#### Step 3: Setting a Height Limit for the Lift System

Begin with the Height Limit Insert UNPLUGGED. Then send the "UP" command from your control system and run the Lift System up to your desired height. Once the Lift System is at the desired height, send the "DOWN" command to stop the lift at the point. Now PLUG the Height Limit Insert into the available RJ45 port on the Nexus 21 Control Box. The Lift will now remember the height and always stop at that point. To change, unplug the Height Limit Insert and repeat Step 3.

#### For technical support or to ask questions, call Nexus 21 Customer Service, toll-free at (866) 500-5438.

Contact Closure Integration Document for L-90

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# Supplemental Page D: Creating a Lid Catch

## How to Properly Install a Lid "Catch" with a Nexus 21 Lift System

There are multiple ways to properly create a "catch" for the lid to rest on, when the lift is in the fully retracted position. Down below are a few examples.

Using the provided Lid Catch Brackets with (8) #10 x 3/4" THWS attach the brackets to each corner of the lid opening. This will provide a support point for the lid to rest on while the lift is in the fully retracted position, assuring the lid is flush with the rest of the cabinetry every time.







Here are a few other examples on how to create a "catch" or "lip" for the cabinet lid to rest upon.

