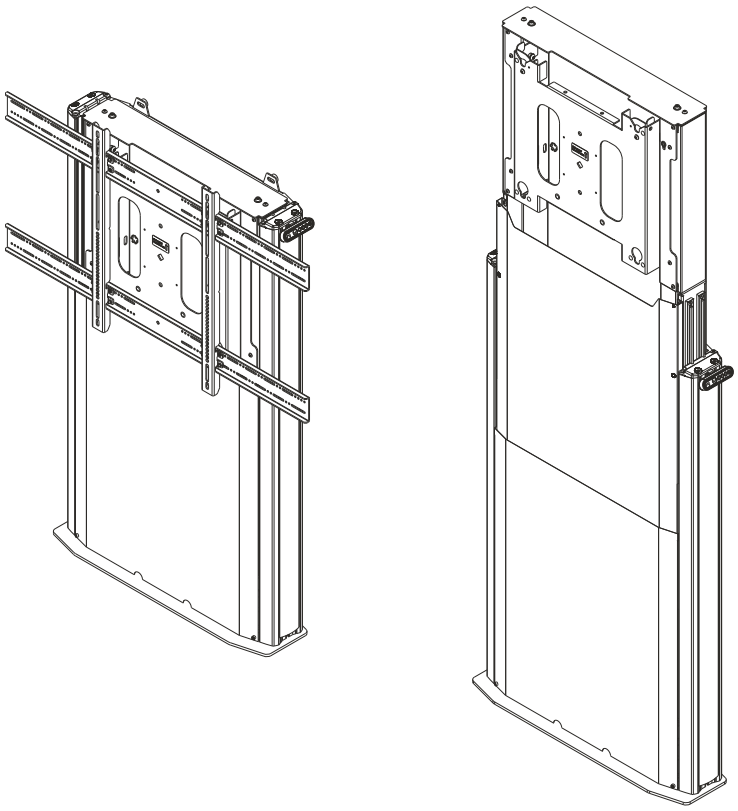
INSTALLATION INSTRUCTIONS



Electrical XL Height Adjustable Floor Stand

CHIEF®

Our Mounts. **Your Vision.**

XFD1U

DISCLAIMER

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DEFINITIONS

⚠WARNING alerts you to the possibility of serious injury or death if you do not follow the instructions.

⚠CAUTION alerts you to the possibility of damage or destruction of equipment if you do not follow the corresponding instructions.

⚠DANGER alerts you to an imminently hazardous situation which, if not avoided, will result in death or serious injury.

MOUNTING SYSTEM: A MOUNTING SYSTEM is the primary Chief product to which an accessory and/or component is attached.

ACCESSORY: AN ACCESSORY is the secondary Chief product which is attached to a primary Chief product, and may have a component attached or setting on it.

COMPONENT: A COMPONENT is an audiovisual item designed to be attached or resting on an accessory or mounting system such as a video camera, CPU, screen, display, projector, etc.

⚠ IMPORTANT SAFETY INSTRUCTIONS

WARNING: FAILURE TO READ AND FOLLOW THE FOLLOWING INSTRUCTIONS CAN RESULT IN SERIOUS PERSONAL INJURY, DAMAGE TO EQUIPMENT OR VOIDING OF FACTORY WARRANTY. It is the installer’s responsibility to make sure all components are properly assembled and installed using the instructions provided.

When using an electrical mounting system, basic precautions should always be followed, including the following:

READ ALL INSTRUCTIONS BEFORE USING THIS PRODUCT!!!!

⚠DANGER: TO REDUCE THE RISK OF ELECTRIC SHOCK:

1. Always turn off power at source before cleaning.

⚠ WARNING: TO REDUCE THE RISK OF BURNS, FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS:

1. Unplug from outlet before putting on or taking off parts.
2. Close supervision is necessary when this furnishing is used by, or near children, invalids, or disabled persons.
3. Use this furnishing only for its intended use as described in these instructions. Do not use attachments not recommended by the manufacturer.
4. Never operate this mounting system if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or dropped into water. Return the mounting system to a service center for examination and repair.
5. Keep the cord away from heated surfaces.
6. Never operate the furnishing with the air openings blocked. Keep the air openings free of lint, hair, and the like.
7. Never drop or insert any object into any opening.
8. Do not use outdoors.
9. Do not operate where aerosol (spray) products are being used or where oxygen is being administered.
10. To disconnect, turn all controls to the off position, then remove plug from outlet.

⚠WARNING: Failure to provide adequate structural strength for this mounting system can result in serious personal injury or damage to equipment! It is the installer’s responsibility to make sure the structure to which this mounting system is attached can support five times the combined weight of all equipment. Reinforce the structure as required before installing the mounting system.

⚠ WARNING: Exceeding the weight capacity can result in serious personal injury or damage to equipment! It is the installer’s responsibility to make sure the weight of all components attached to the XFD1U does not exceed 310 lbs (140.6 kg).

⚠ WARNING: Use this mounting system only for its intended use as described in these instructions. Do not use attachments not recommended by the manufacturer.

⚠WARNING: Never operate this mounting system if it is damaged. Return the mounting system to a service center for examination and repair.

IMPORTANT ! : The XFD1U is designed to be mounted to:

- a bare concrete wall with a minimum thickness of 8" (203mm):
- a bare 8" x 8" x 16" (203mm x 203mm x 406mm) concrete block wall; or
- wood studs spaced 16" on center with a maximum drywall covering of 5/8”.
- a 2" x 4"-25ga minimum steel stud wall.
- a bare drywall wall with a minimum thickness of 1/2" (12.7mm).

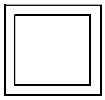
NOTE: The XFD1U stand has no user serviceable parts.

NOTE: The XFD1U stand can support screen sizes up to a maximum of 100" wide.

NOTE: The XFD1U stand is intended for Institutional Use.

NOTE: To reduce the risk of electric shock, this furnishing has a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not change the plug in any way.

NOTE: This product is a double-insulated, cord-connected product and must be serviced accordingly. In a double-insulated product, two systems of insulation are provided instead of grounding. No grounding means for grounding to be added to the product Servicing a double-insulated product requires extreme care and knowledge of the system, and is to be done only by qualified service personnel. Replacement parts for a double-insulated product must be identical to the parts they replace. A double-insulated product is marked with the symbol (square within a square)



Electrical Specifications	
Input voltage, frequency	100-240 V~, 50-60 Hz, 450W
Duty Cycle	Intermittent: 10%; max 2 minutes on/18 minutes off

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

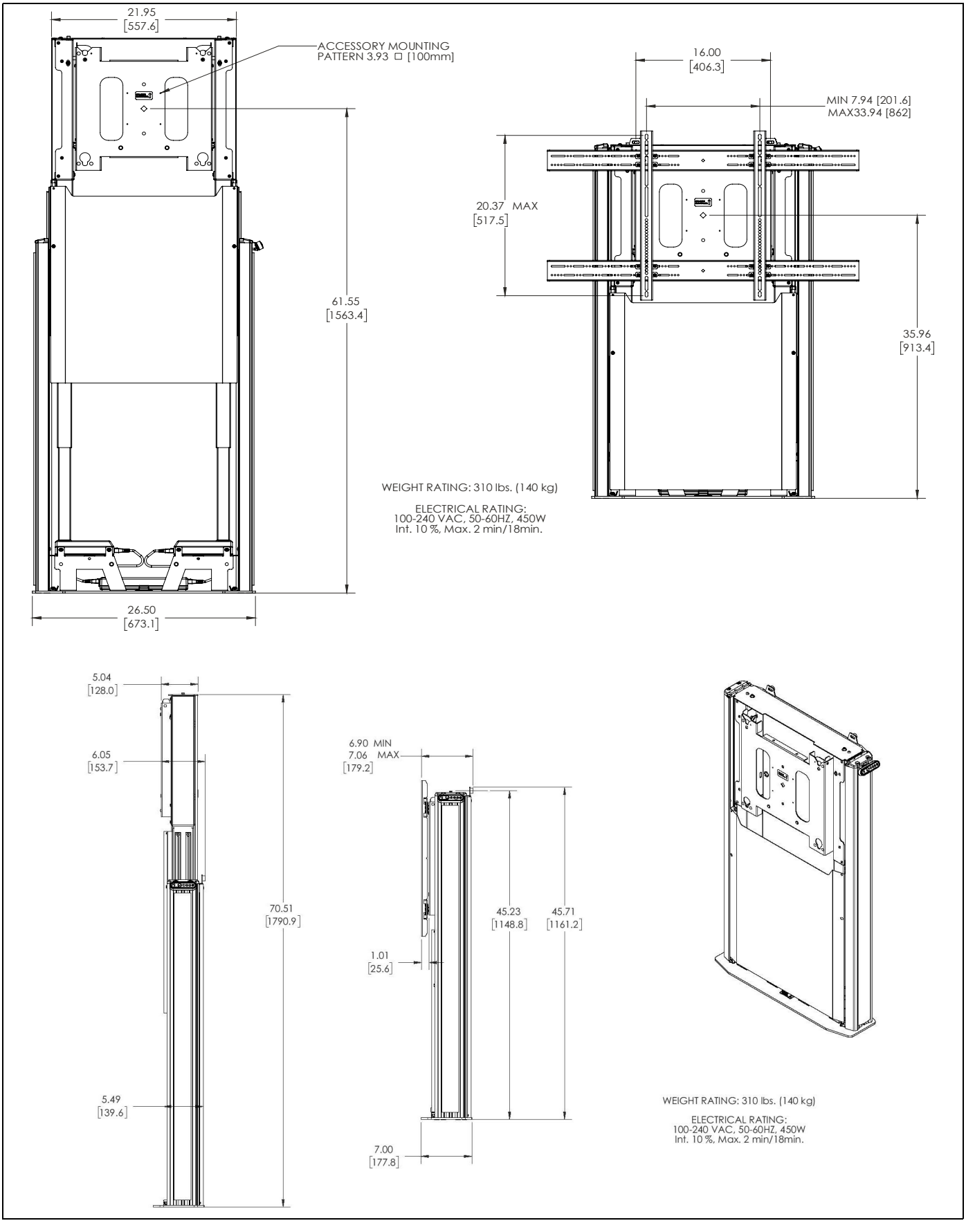
⚠CAUTION: Changes or modifications to this unit not expressly approved by the manufacturer can void the units FCC compliance rating and make the unit illegal to operate.

Responsible Party:

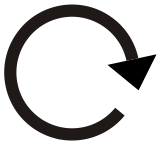
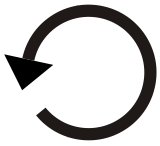
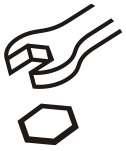
Milestone AV Technologies
6436 City West Parkway
Eden Prairie, MN 55344
866-977-3901
info@milestone.com

--SAVE THESE INSTRUCTIONS--

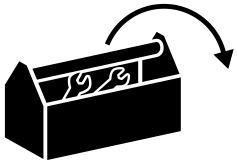
DIMENSIONS


21.95
[557.6]
ACCESSORY MOUNTING
PATTERN 3.93 □ [100mm]
61.55
[1563.4]
26.50
[673.1]
16.00
[406.3]
MIN 7.94 [201.6]
MAX33.94 [862]
20.37 MAX
[517.5]
35.96
[913.4]
WEIGHT RATING: 310 lbs. (140 kg)
ELECTRICAL RATING:
100-240 VAC, 50-60HZ, 450W
Int. 10 %, Max. 2 min/18min.
5.04
[128.0]
6.05
[153.7]
70.51
[1790.9]
5.49
[139.6]
6.90 MIN
7.06 MAX
[179.2]
45.23
[1148.8]
45.71
[1161.2]
1.01
[25.6]
7.00
[177.8]
WEIGHT RATING: 310 lbs. (140 kg)
ELECTRICAL RATING:
100-240 VAC, 50-60HZ, 450W
Int. 10 %, Max. 2 min/18min.

LEGEND

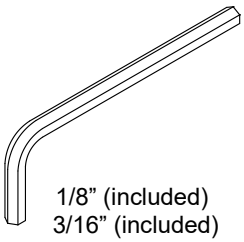
	Tighten Fastener Apretar elemento de fijación Befestigungsteil festziehen Apertar fixador Serrare il fissaggio Bevestiging vastdraaien Serrez les fixations
	Pencil Mark Marcar con lápiz Stiftmarkierung Marcar com lápis Segno a matita Potloodmerkteken Marquage au crayon
	Loosen Fastener Aflojar elemento de fijación Befestigungsteil lösen Desapertar fixador Allentare il fissaggio Bevestiging losdraaien Desserrez les fixations
	Drill Hole Perforar Bohrloch Fazer furo Praticare un foro Gat boren Percez un trou
	Phillips Screwdriver Destornillador Phillips Kreuzschlitzschraubendreher Chave de fendas Phillips Cacciavite a stella Kruiskopschroevendraaier Tournevis à pointe cruciforme
	Adjust Ajustar Einstellen Ajustar Regolare Afstellen Ajuster
	Open-Ended Wrench Llave de boca Gabelschlüssel Chave de bocas Chiave a punte aperte Steeksleutel Clé à fourche
	Remove Quitar Entfernen Remover Rimuovere Verwijderen Retirez
	By Hand A mano Von Hand Com a mão A mano Met de hand À la main
	Optional Opcional Optional Opcional Opzionale Optie En option
	Hex-Head Wrench Llave de cabeza hexagonal Sechskantschlüssel Chave de cabeça sextavada Chiave esagonale Zeskantsleutel Clé à tête hexagonale
	Security Wrench Llave de seguridad Sicherheitsschlüssel Chave de segurança Chiave di sicurezza Veiligheidssleutel Clé de sécurité

TOOLS REQUIRED FOR INSTALLATION



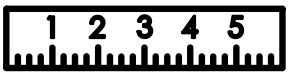
7/32" (5.3mm) - wood studs
3/8" (10mm) - concrete/drywall
1/2" (12.7mm) - steel studs

1/2" (deep)

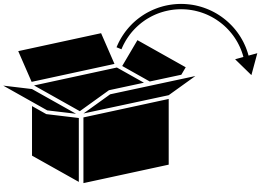


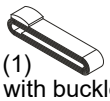
1/8” (included)
3/16” (included)

#2

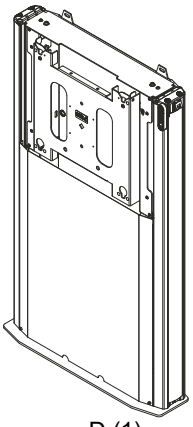


PARTS





A (1)
[Strap with buckle]



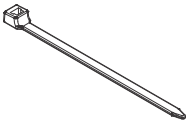
D (1)
[Column assembly]

Q (1) - PSBU interface + hardware
(See PSBU parts list on page 7)

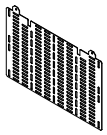
B (1)
#10-24

C (1)
#10

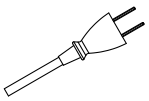
+ installation instructions



E (8)
[Cable tie]



F (1)
[Component bracket]

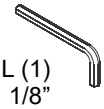


G (1)
[Power cable]

H (4)
[Cable clip]

J (2)
[Large spacer]

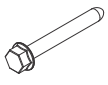
K (1)
3/16”



L (1)
1/8”

M (2)
#10-24 x 3/8"

N (1)
[Hardware bag]

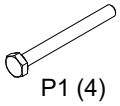


N1 (4)
5/16 x 2 1/2"

N2 (4)
Ux10x60mm

N3 (4)
[5/16" slotted washer]
(not used)

P (1)
[Steel stud hardware bag]

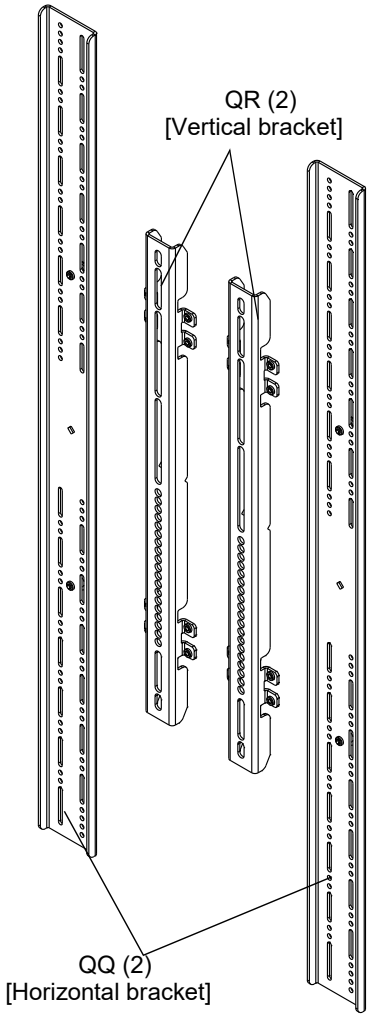


P1 (4)
1/4-20 x 2 1/2"

P2 (4)
1/4"

P3 (4)
[1/4-20 toggle anchor]

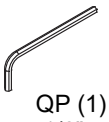
PARTS - PSBU INTERFACE



Hardware Kit

Bag A QA (4) M4 x 12mm	**Bag B** QB (4) M4 x 20mm	**Bag C** QC (4) M4 x 25mm
Bag D QD (4) M5 x 12mm	**Bag E** QE (4) M5 x 20mm	**Bag F** QF (4) M5 x 25mm
Bag G QG (4) M6 x 12mm	**Bag H** QH (4) M6 x 20mm	**Bag I** QI (4) M6 x 25mm
Bag J QJ (4) M8 x 12mm	**Bag K** QK (4) M8 x 20mm	**Bag L** QL (4) M8 x 30mm
Bag M QMA (8) [Nesting spacer]	QMB (4) [Universal spacer]	

QN (8)
#10-24 x 1/2"



QP (1)
1/8”

Assembly And Installation

Stand Assembly/Setup

IMPORTANT ! : The XFD1U packaging was designed to help make the installation and setup easier. Do NOT remove assembly prior to reading installation instructions!

1. Remove all parts and extra packaging from sides of box leaving only the column assembly (D) in the box. (See Figure 1)
2. Lift column assembly (D) up using the two finger tabs at the bottom of the assembly. (See Figure 1)
3. Carefully set column assembly (D) base on the edge of box. (See Figure 1) and (See Figure 2)

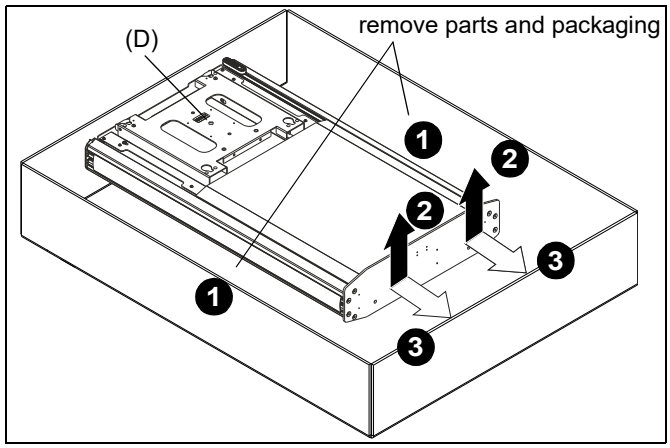


Figure 1

4. Remove stand from box by tipping it from the top onto its base. (See Figure 2)

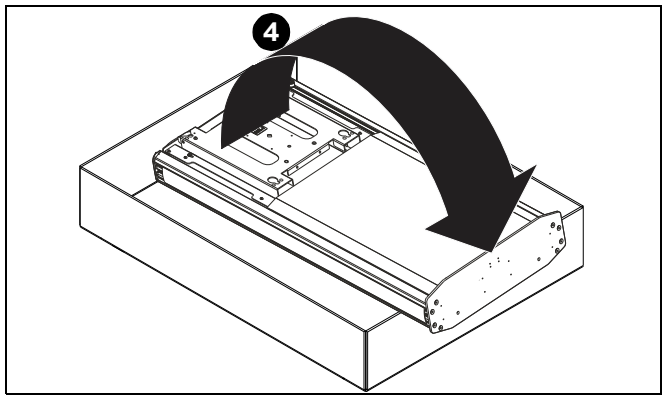


Figure 2

5. Secure control pad into control pad bracket. (See Figure 3)

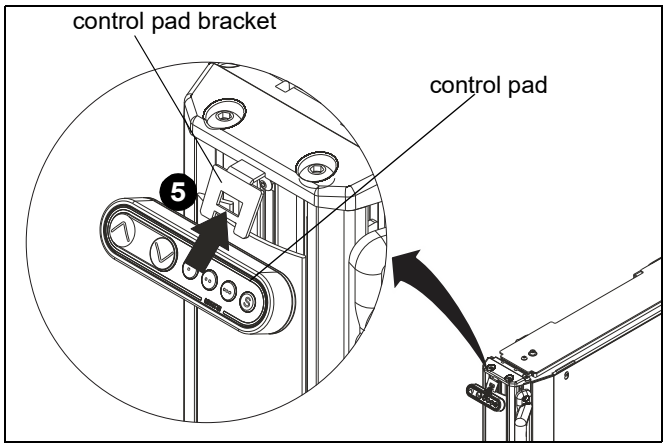


Figure 3

6. Remove bottom two screws from back cover. (See Figure 4)
7. Loosen top two screws from back cover. (See Figure 4)
8. Remove back cover by lifting cover up and out. (See Figure 4)

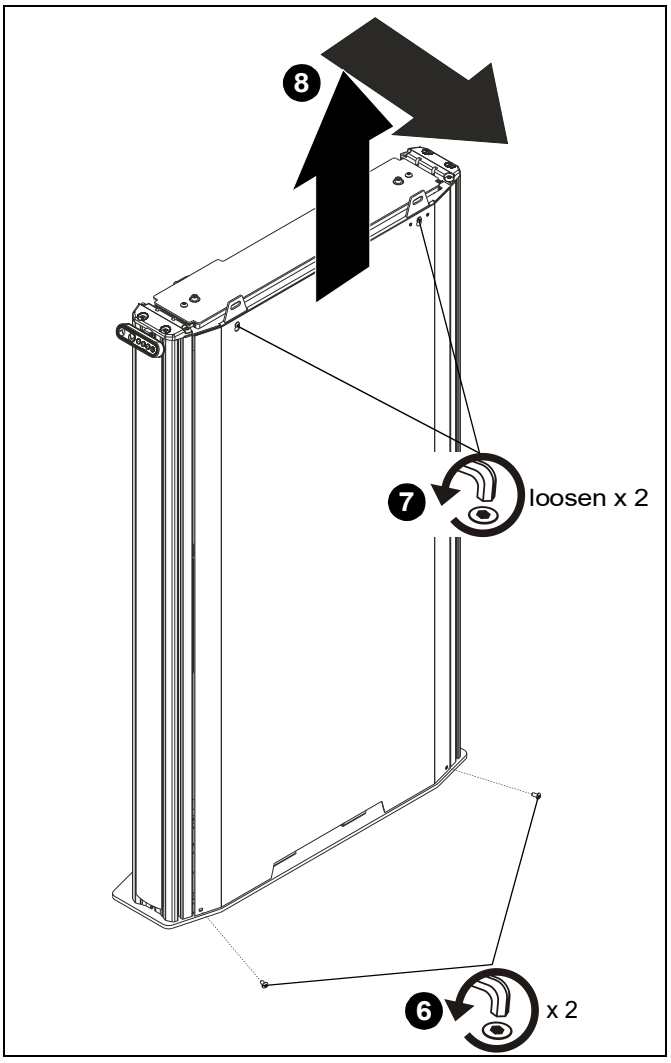


Figure 4

9. Plug in power cable (G) to power supply. Provide strain relief using the cable tie (E) on nearest cable clip. (See Figure 5)

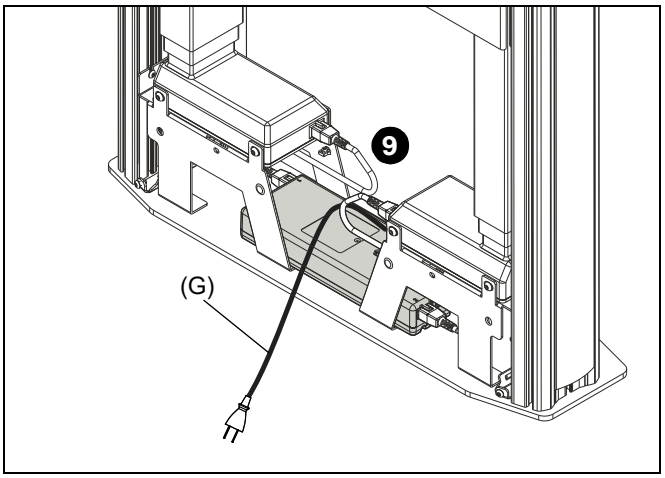


Figure 5

10. (Optional) Place component bracket (F) in mounting position. (See Figure 6)
11. (Optional) Use two #10-24 x 3/8" button head cap screws (M) to secure component bracket. (See Figure 6)

NOTE: Strap with buckle (A) and/or cable ties (E) may be used to secure components to component bracket (F).

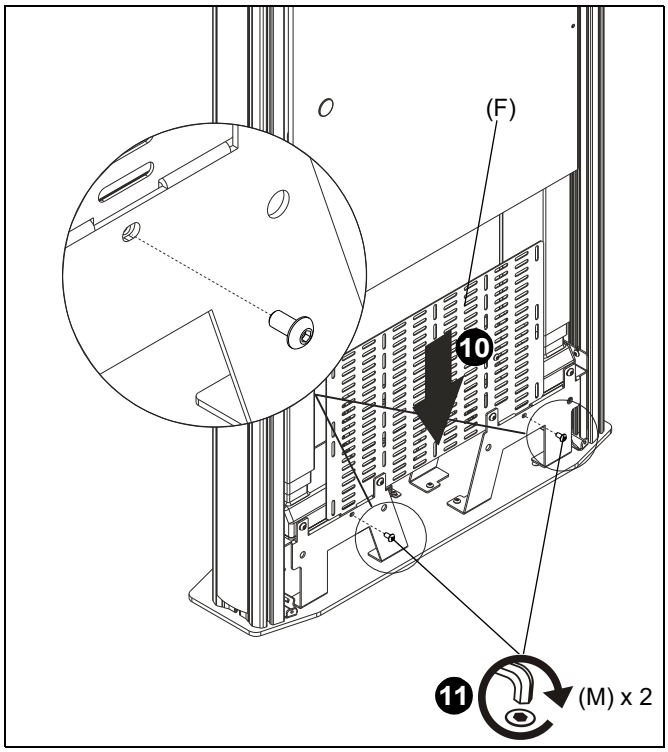


Figure 6

12. Press and hold "DOWN" button for three seconds to initialize lift mechanism. (See Figure 7)
13. Press and hold "UP" button until mount reaches it's maximum height. (See Figure 7)

NOTE: If lifting mechanism does not function properly refer to "Troubleshooting" Section.

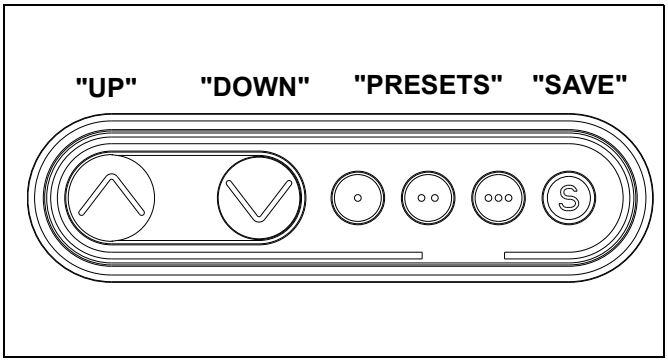


Figure 7

14. Remove bottom two screws from front cover. (See Figure 8)
15. Use finger tabs to pull front cover out and slide down. Cover must be flexed to remove pins from uprights in order to remove. (See Figure 8)

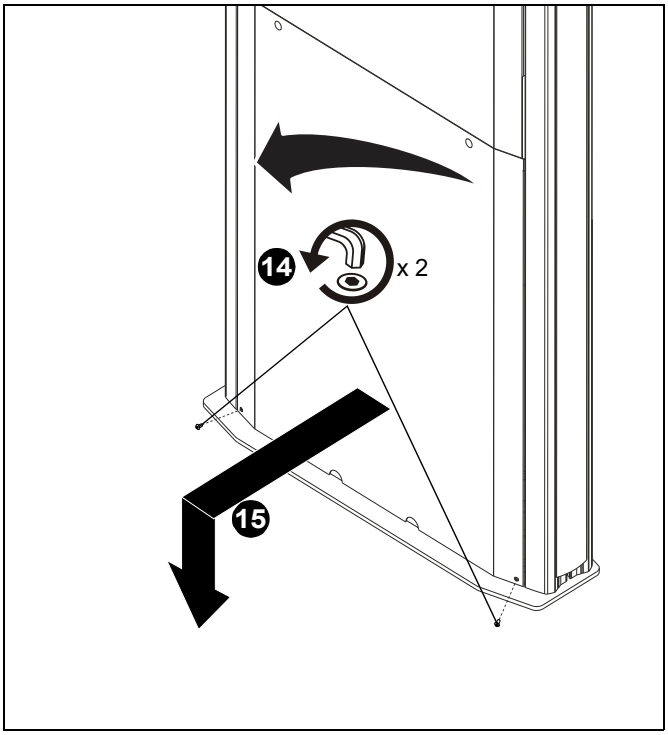


Figure 8

16. Attach display and signal cables to power source. Use cable clips (H) and cable ties (E) to route as necessary. (See Figure 9)

IMPORTANT ! : Make sure to install cables when lift is at the highest position and so that there is enough length to reach input locations for display and signal.

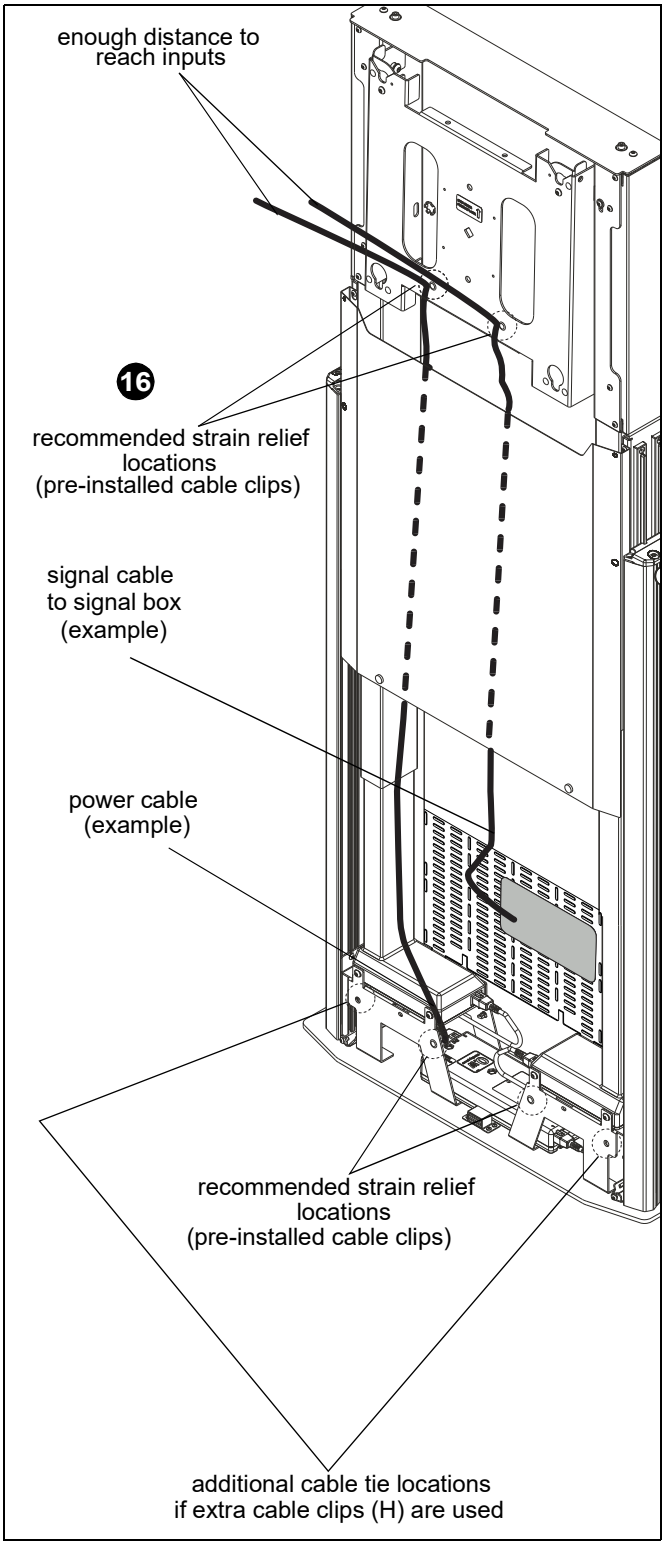


Figure 9

17. Reinstall front cover by using two screws removed in Step 13. (See Figure 10)

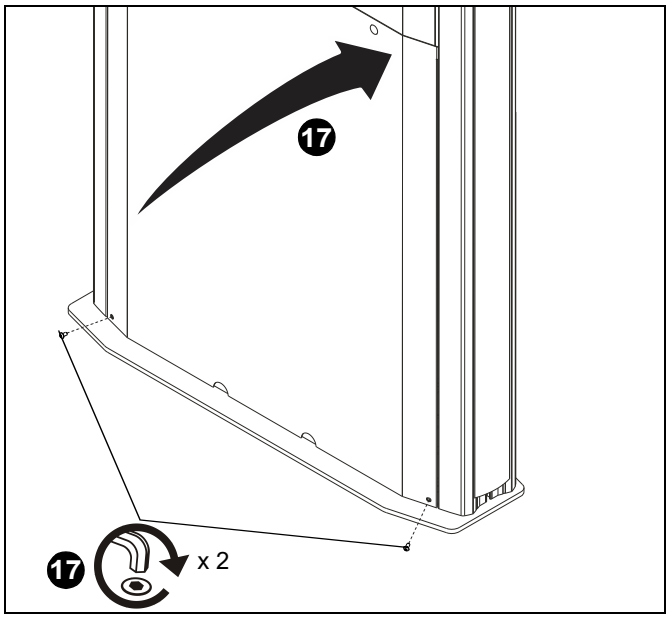


Figure 10

18. Reinstall rear cover and secure by installing screws removed in Step 6. (See Figure 11)
19. Tighten screws that were loosened in Step 7. (See Figure 11)

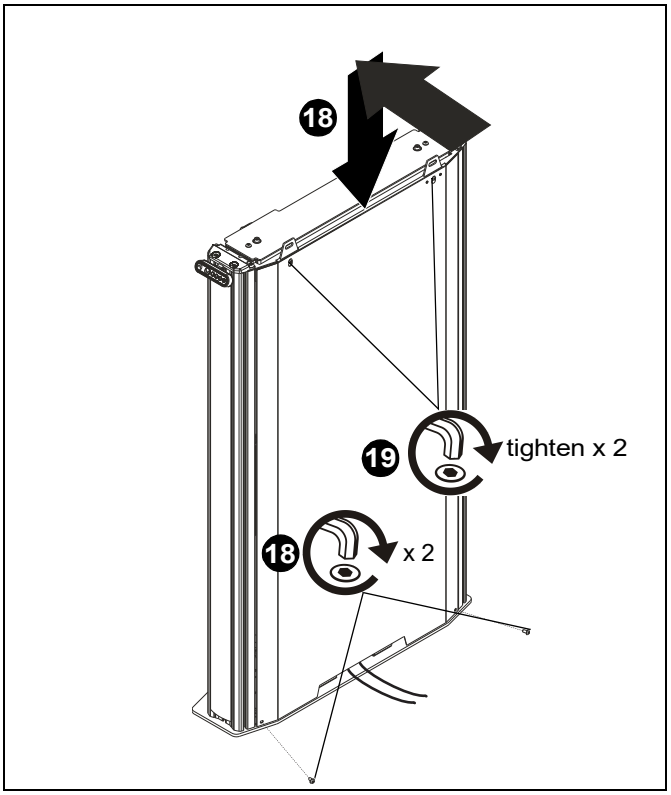


Figure 11

20. Lower mount to its lowest position and move it to desired mounting location.

Attachment to Wall

The XFD1U is designed to be mounted to:

- a bare concrete wall with a minimum thickness of 8" (203mm):
- a bare 8" x 8" x 16" (203mm x 203mm x 406mm) concrete block wall; or
- wood studs spaced 16" on center with a maximum drywall covering of 5/8”.
- a 2" x 4"-25ga minimum steel stud wall.
- a bare drywall wall with a minimum thickness of 1/2" (12.7mm).

NOTE: Space can be created behind the mount (on any substrate) by using large spacers (J) or nesting spacers included with PSBU behind installation tabs during installation. Large spacers (J) will provide 0.75" while two nesting spacers will provide 0.375".

Installing to Wood Stud Wall

1. Use a stud-finder to locate 16" studs.
2. Place column assembly against wall making sure to line up attachment brackets with studs. (See Figure 12)
3. Mark hole locations at each mounting location. (See Figure 12)
4. Drill two 7/32” holes at marked hole locations. (See Figure 12)

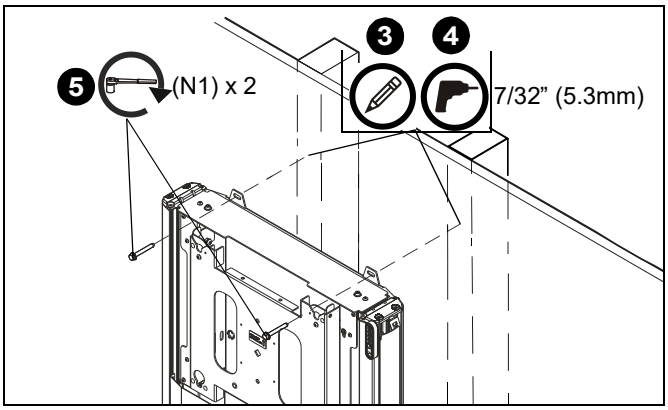


Figure 12

5. Install two 5/16 x 2 1/2” hex head cap screws (N1) through holes on attachment brackets and into drilled holes on wall. (See Figure 12)

Installing to a Concrete Wall

1. Place column assembly against wall at desired mounting location. (See Figure 13)
2. Mark hole locations at each mounting location. (See Figure 13)
3. Drill two 3/8” holes at marked hole locations. (See Figure 13)
4. Install an anchor (N2) into each pilot hole using a hammer, making sure that the anchor is flush with the wall. (See Figure 13)

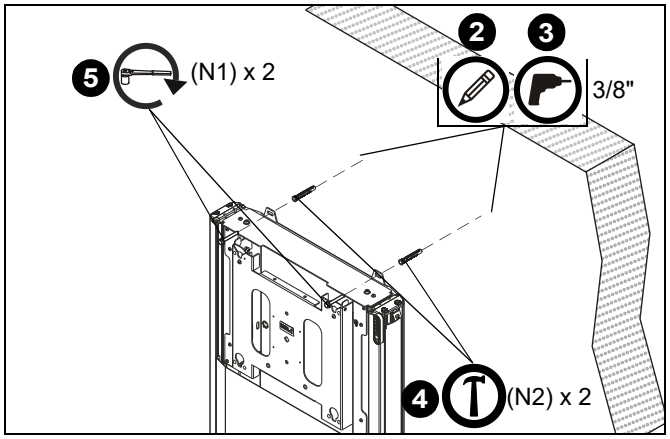


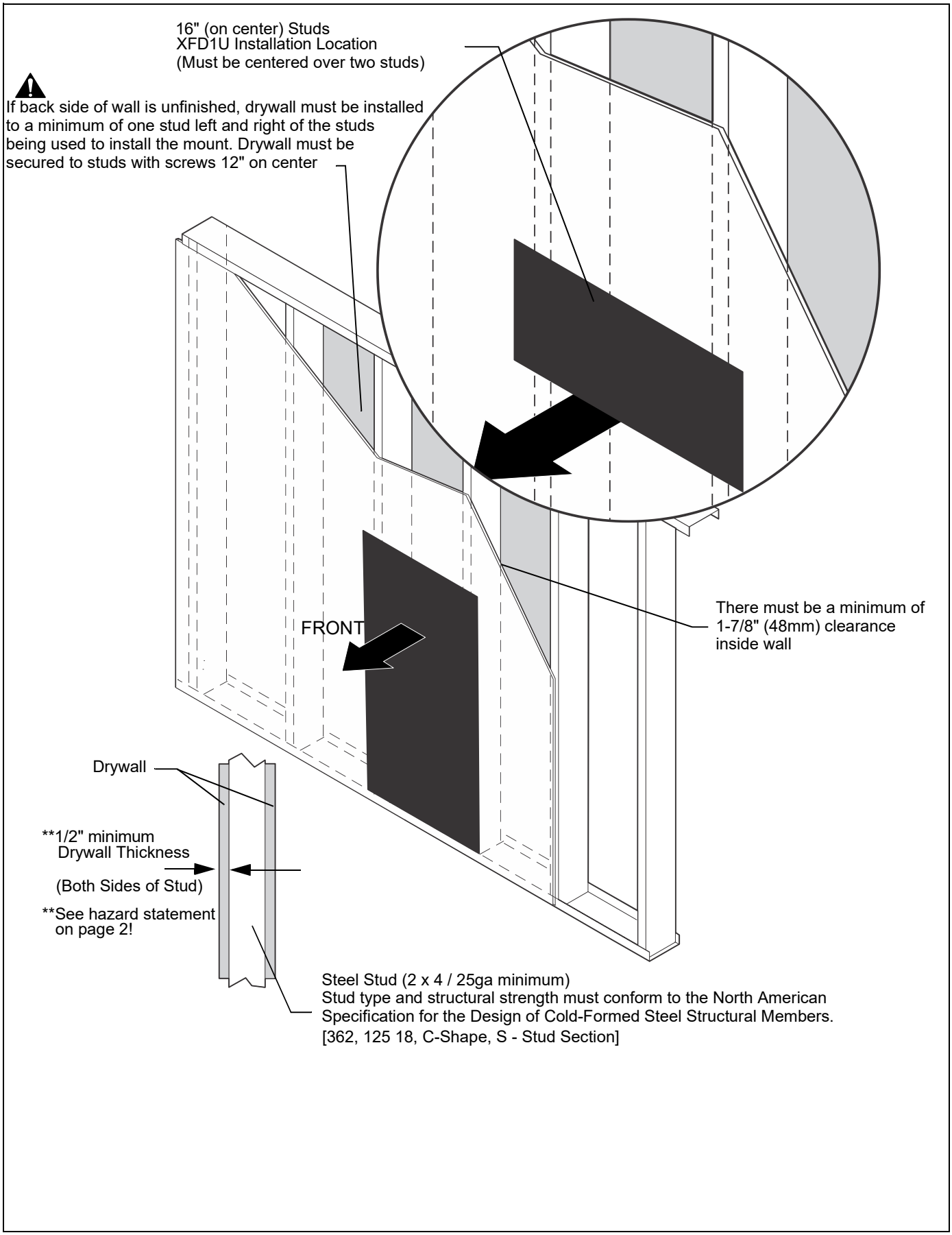
Figure 13

5. Install two 5/16 x 2 1/2” hex head cap screws (N1) through holes on attachment brackets and into anchors (N2) on wall. (See Figure 13)

Installing to Steel Studs/Drywall

NOTE: The installation procedure is the same for installing to steel studs and drywall only except that a pilot hole does not need to be drilled if installing to drywall only.

Site Requirements (Steel Studs)



1. Drill a 1/2" hole at the desired mounting locations.
2. Hold metal channel on anchor (P3) flat alongside plastic straps and slide channel through hole. (See Figure 14)

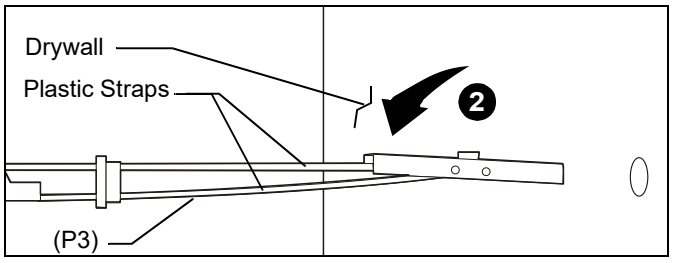


Figure 14

3. Holding plastic straps on anchor (P3), pull anchor away from wall until channel rests flush behind wall making sure anchor channel is positioned vertically on stud. (See Figure 15)
4. Slide plastic cap on anchor (P3) towards wall until flange of cap is flush with wall. (See Figure 15)

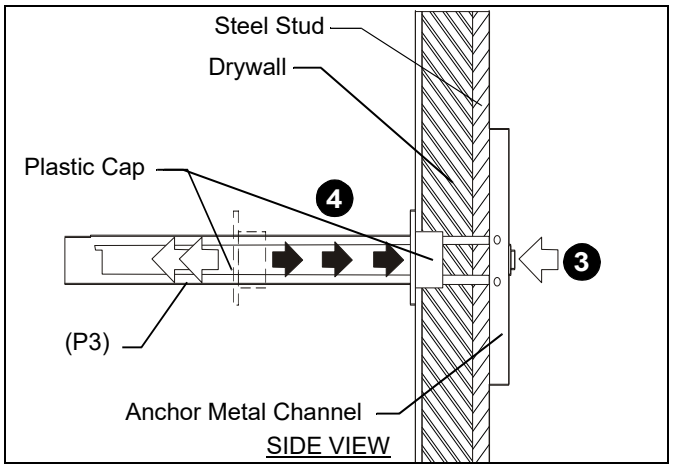


Figure 15

5. Snap off plastic straps on anchor at wall by pushing side to side, snapping off straps level with flange of plastic cap. (See Figure 16)
6. Repeat Steps 1 through 5 for the other mounting hole.

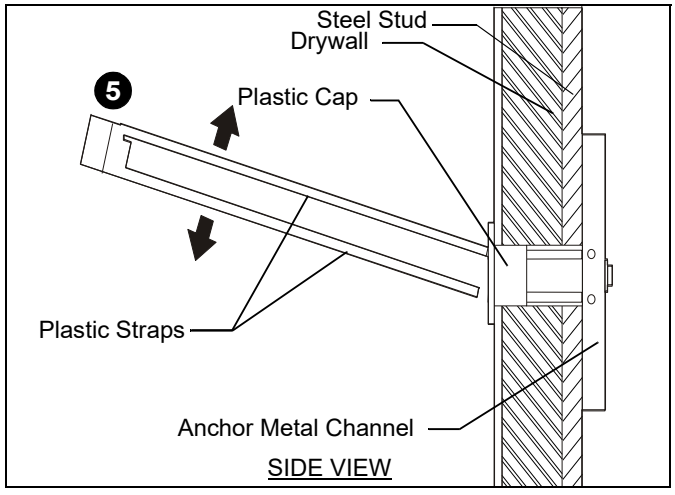


Figure 16

7. Place mount over anchors and align mounting holes on mount with holes in anchors. (See Figure 17)

WARNING: IMPROPER INSTALLATION CAN LEAD TO EQUIPMENT FALLING CAUSING SERIOUS PERSONAL INJURY OR DAMAGE TO EQUIPMENT! Overtightening of mounting hardware can damage the steel studs. DO NOT overtighten mounting hardware!

8. Insert two 1/4-20 x 2 1/4" hex head tapping bolts (P1) through two 1/4" washers (P2), corresponding mounting holes on mount and into anchors (P3) and tighten until flush against mount. DO NOT overtighten! (See Figure 17)

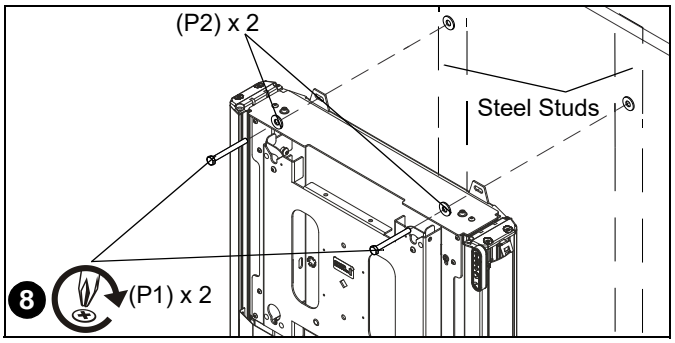


Figure 17

Display Installation

WARNING: Exceeding the weight capacity can result in serious personal injury or damage to equipment! It is the installer's responsibility to make sure the combined weight of all accessories and components attached to the XFD1U head assembly up to (and including) the display does not exceed 310 lbs (140.6 kg).

1. Make sure height is at the lowest possible position.
2. Make sure latching flags are in "open" position.

WARNING: IMPROPER INSTALLATION CAN LEAD TO MOUNT FALLING CAUSING SERIOUS PERSONAL INJURY OR DAMAGE TO EQUIPMENT! DO NOT substitute hardware. Only use hardware provided or specified by manufacturer.

3. Determine and mark the vertical center position between the Left side Upper and Lower mounting holes in display. (See Figure 18)
4. Determine and mark the vertical center position between the Right side Upper and Lower mounting holes in display. (See Figure 18)

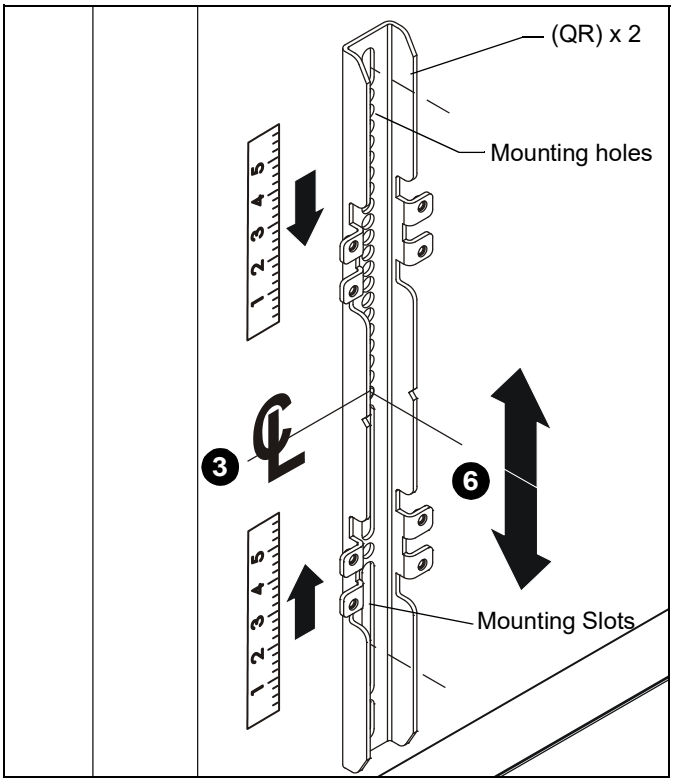


Figure 18

5. Orient vertical mounting bracket (QR) so that mounting holes are on top and mounting slots are on bottom. (See Figure 18)
6. Align mounting holes in vertical mounting bracket (QR) with upper and lower mounting holes in display.
7. Adjust vertical mounting bracket (QR) position until mark made in Step 1 aligns with center mark in vertical mounting bracket (QR).
8. Select correct screws, nesting spacers (if necessary) and universal washers (if required) from the hardware bag (QA-QM) and attach brackets to back of screen. (See Figure 20)

IMPORTANT ! : The M8 screws do **NOT** require a washer. Use the universal washer (QMB) only with M4, M5 and M6 screws.

NOTE: The nesting spacers (QMA) may be used separately, or put two together in different configurations to create different size spacers. (See Figure 19)

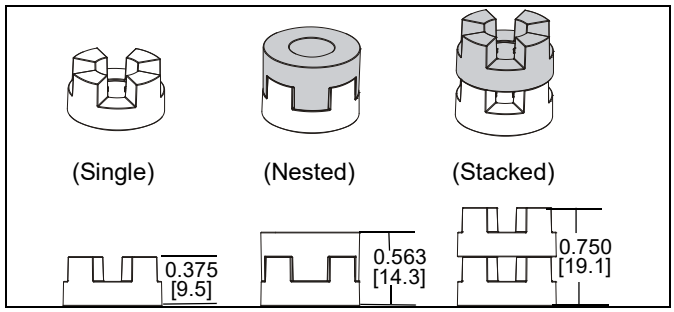


Figure 19

9. If the display has a recessed mounting surface, protrusions or a power box, a spacer and longer mounting hardware must be placed between the display and vertical mounting bracket (QR). (See Figure 20)
10. Repeat Steps 5 through 8 for Right side vertical mounting bracket using the same hole locations to align brackets horizontally.

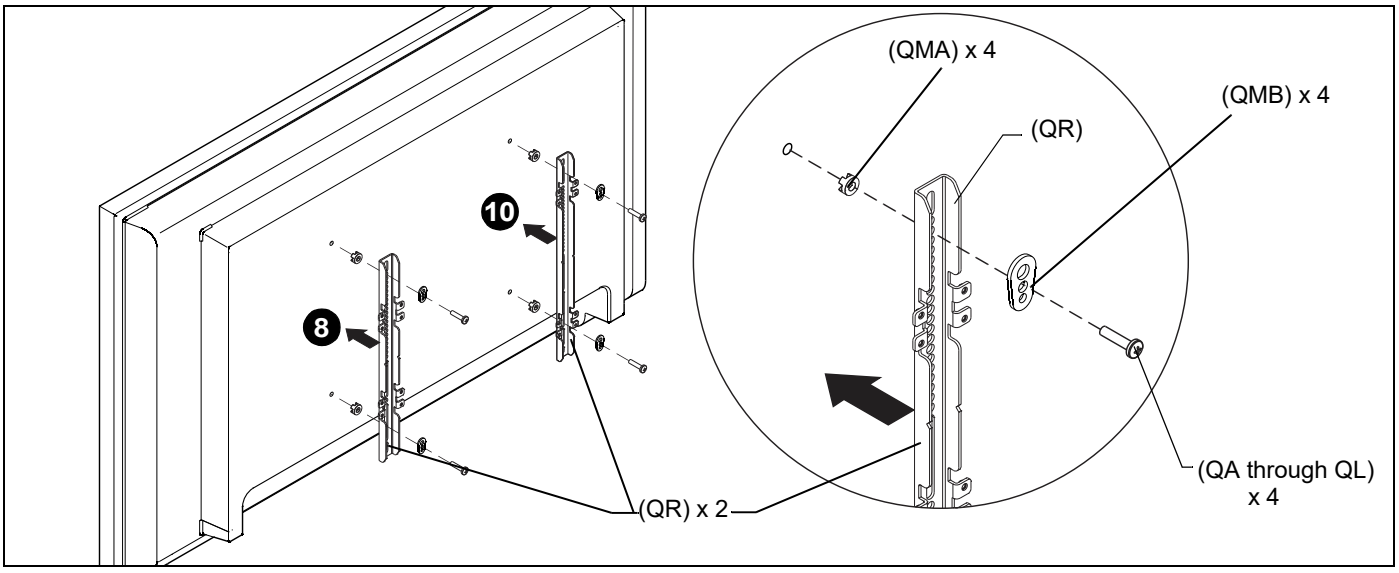


Figure 20

11. Determine and mark the horizontal center position between the Left and Right *TOP* mounting holes in display. (See Figure 21)
12. Determine and mark the horizontal center position between the Left and Right *BOTTOM* mounting holes in display. (See Figure 21)
13. Orient upper horizontal mounting bracket (QQ) so that flanges are facing towards display and resting in recessed area of left and right vertical mounting brackets (QR). (See Figure 21)
14. Adjust Upper horizontal mounting bracket (QQ) position until center diamond in horizontal mounting bracket (QU) aligns with mark made in Step 9, and mounting holes and slots in horizontal mounting bracket (QQ) are aligned with threaded holes in mounting tabs of left and right vertical mounting brackets (QR). (See Figure 21) and (See Figure 22)
15. Use 1/8" hex key (QP) to secure upper horizontal mounting bracket (QQ) to left and right vertical mounting brackets (QR) using four button head flanged screws (QN). (See Figure 22)
16. Repeat Steps 12 through 15 for lower horizontal mounting bracket (QQ).

IMPORTANT ! : The orientation of, and mounting holes used, when installing the lower horizontal mounting bracket must be the same as the upper horizontal mounting bracket. Vertically align upper and lower brackets by aligning holes or end of slots. (See Figure 22)

IMPORTANT ! : Whenever possible install mounting screws diagonally as shown in detail in Figure 22 below.

17. Install display with attached universal interface to mount following the installation instructions provided with the mount.

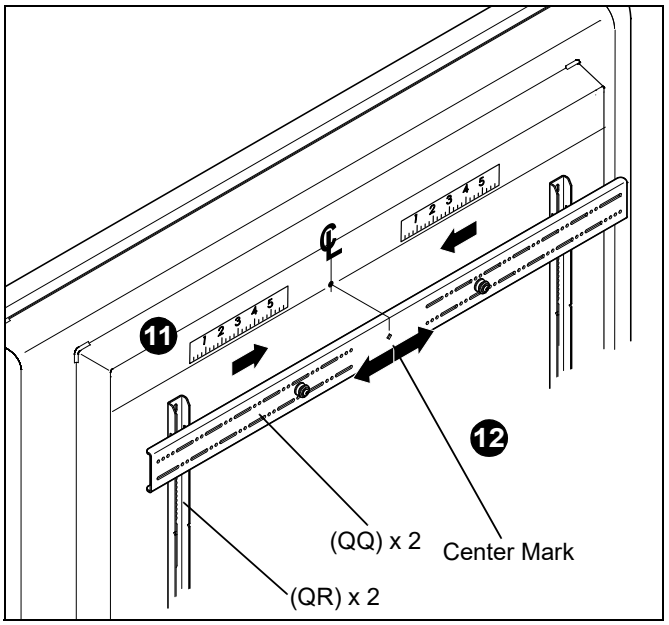


Figure 21

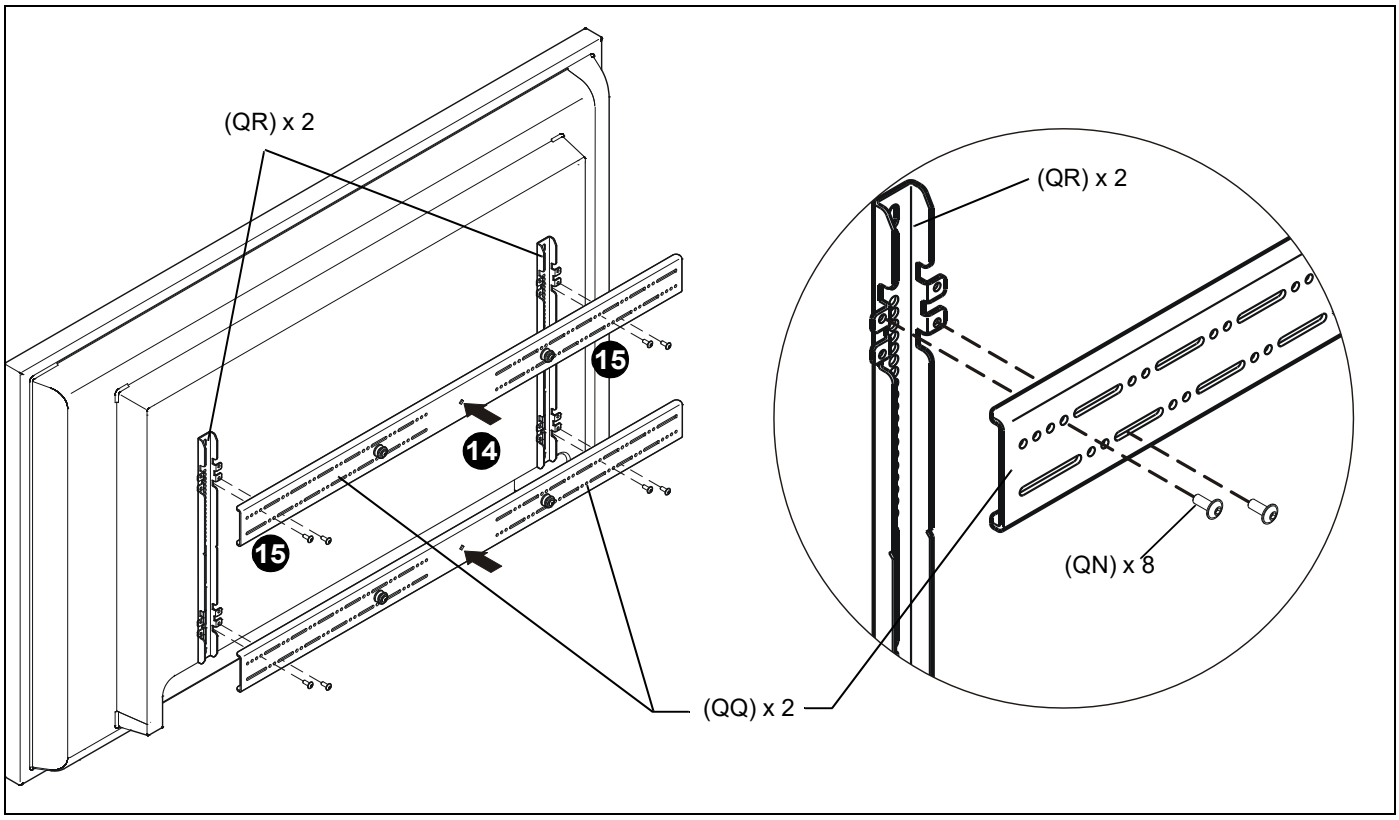


Figure 22

18. Make sure latching flags are in "closed" position prior to using cart!

IMPORTANT ! : Manufacturer recommends using cable ties (Z) to secure the latching flags in closed position on both sides if padlock is not being used. (See Figure 23)

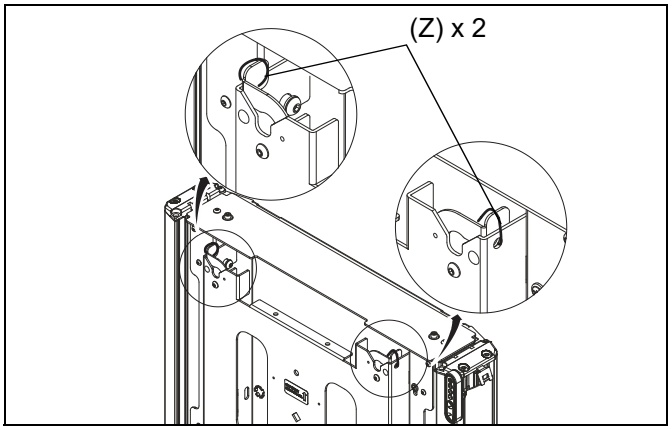


Figure 23

Adjustments

Height Adjustment

1. Press "UP" or "DOWN" buttons to raise or lower height as desired. (See Figure 24)

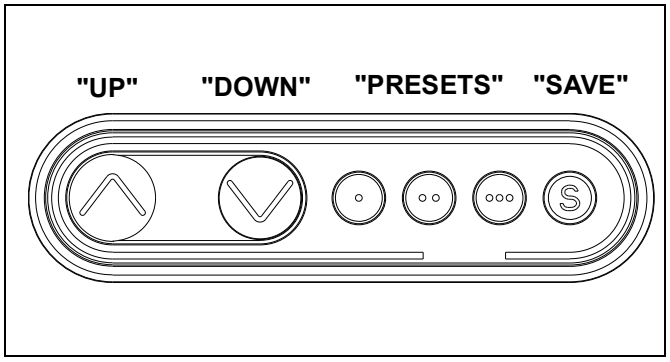


Figure 24

Save Height Levels

1. Adjust height until desired preset level is reached using "UP" and "DOWN" buttons. (See Figure 24)
2. Press "SAVE" button. (See Figure 24)
3. Press one of three preset buttons (., .. or ...) to save preset position. (See Figure 24)
4. Repeat Steps 1-3 as desired.

Leveling Adjustment

1. Use 3/16" hex key to adjust leveling adjustment screws on top of stand. (See Figure 25)
   - Turn Counterclockwise to lower
   - Turn Clockwise to raise

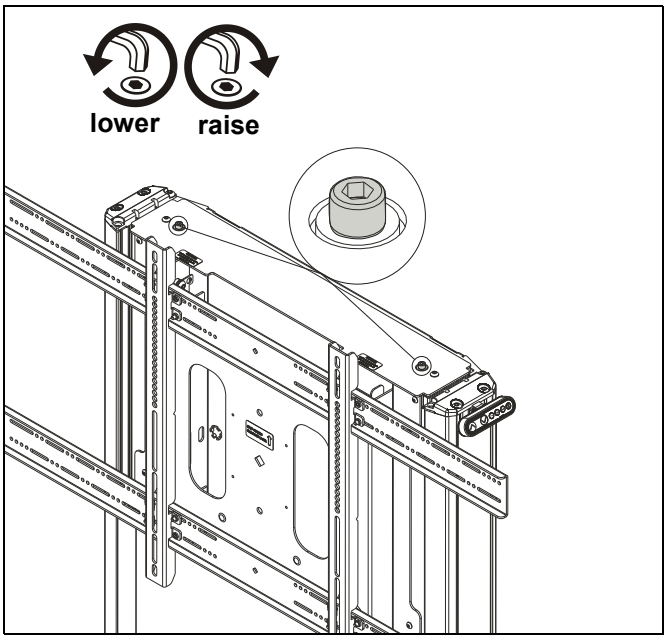


Figure 25

Troubleshooting

If lifting function does not work properly, try to following troubleshooting steps. If none of these work, contact customer service.

1. If there is uneven movement, initialize the control box (reset)
   - Hold "Down" button until lift has reached it's lower limit.
   - Briefly release "Down" button
   - Press and hold "Down" for five seconds, wait until all movement has stopped, then release
2. If there is no movement, check the following
   - Check all cable connectors between controllers and actuators.
   - Check power cable connection to control box.
3. If there is slight movement and then reverse travel, check for any obstructions that may be interfering such as cables or peripheral devices.
4. Contact customer service if none of the above steps fix the problem.

Using Remote and Dongle

Refer to installation instructions included with remote (B) and dongle (C) to set up remote system.

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