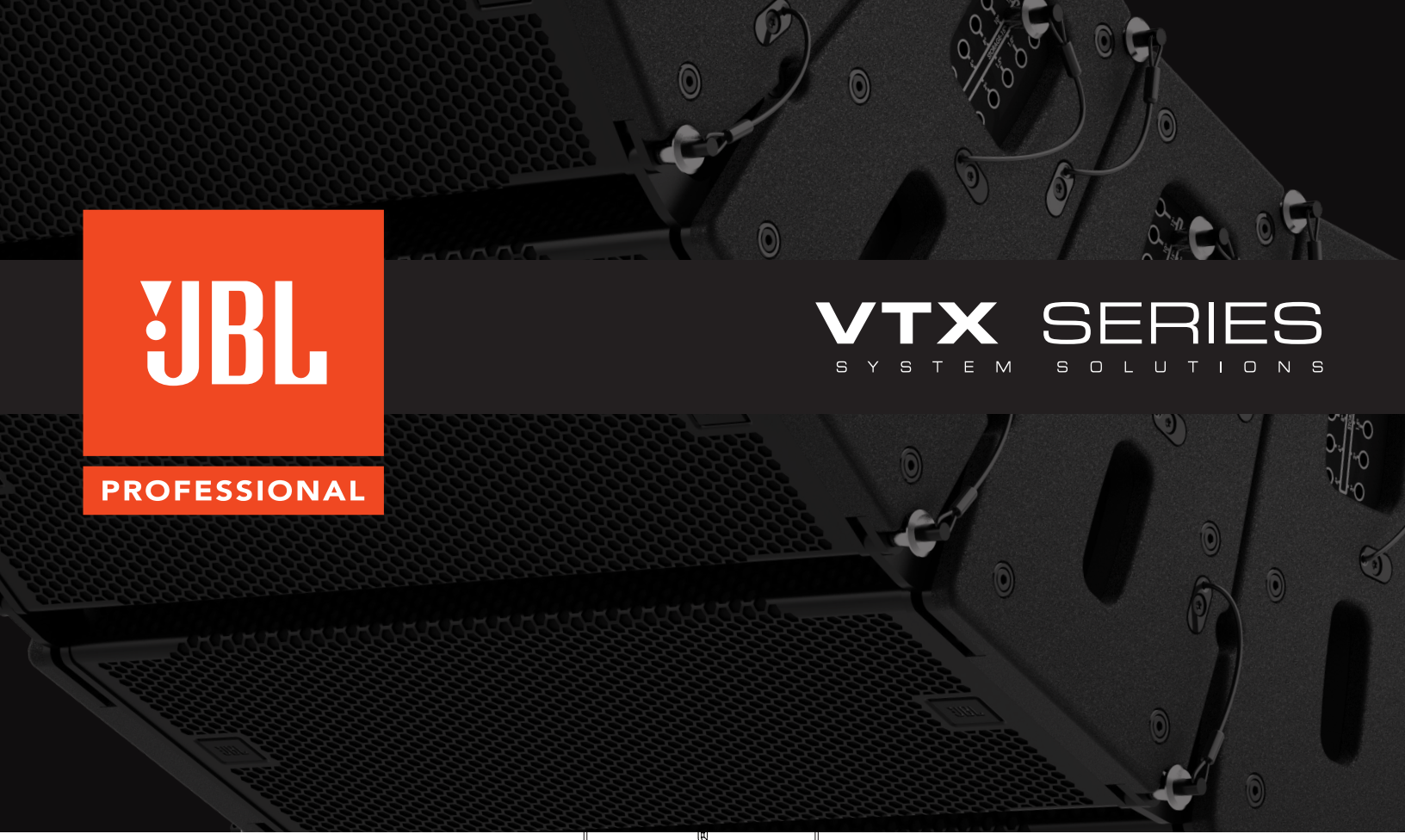
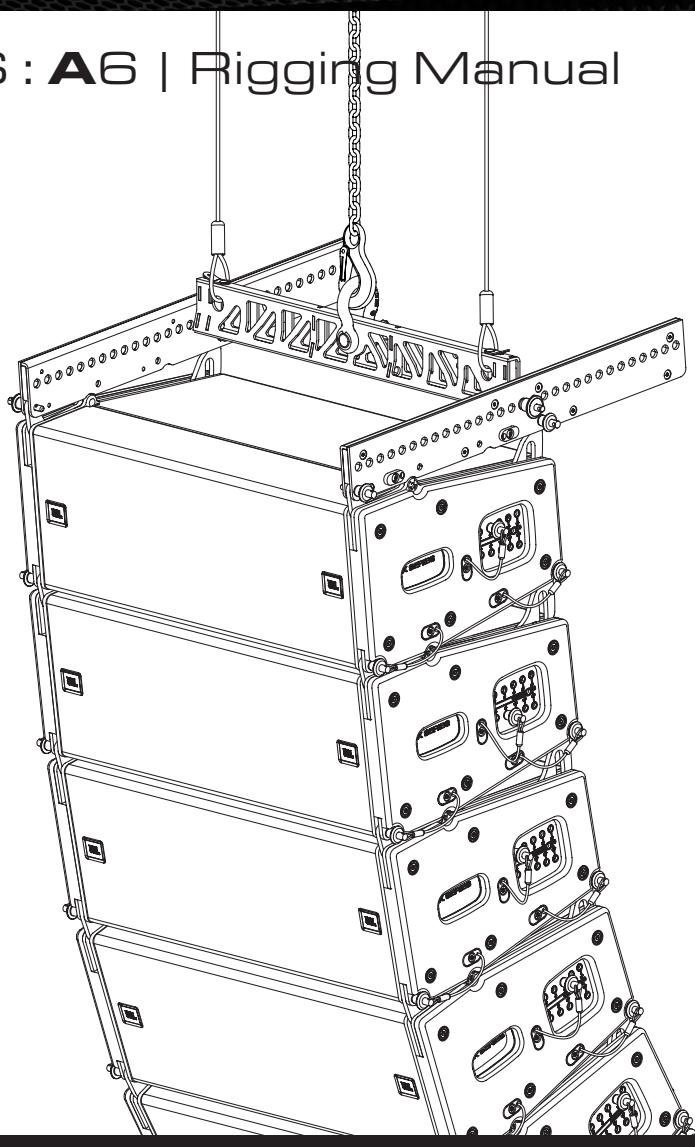


JBL PROFESSIONAL

VTX SERIES
SYSTEM SOLUTIONS

VTX SERIES : A6 | Rigging Manual



GENERAL INFORMATION

VTX A6 - Rigging Manual

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JBL PROFESSIONAL

8500 Balboa Blvd

Northridge, CA 91329

USA

Thank you for purchasing JBL VTX Series products

In more than 75 years of JBL innovations, the VTX Series stands apart as a milestone in the practical application of creative engineering. VTX products herald the next generation in line array loudspeaker systems: a new era in performance, system integration and user friendliness. VTX products draw on multiple JBL patents in driver, waveguide, and suspension technology, as well as custom amplification, DSP, control, and system management designs created in collaboration with HARMAN Professional sister companies.

VTX loudspeakers marry custom transducer design and in-house manufacture, breakthrough technologies, and a comprehensive system approach to deliver a premium experience for all who come into contact with them, from the FOH mixing engineer to the systems engineer, rigger, road crew, warehouse manager, and, of course, the audience. Designed for operators of portable and fixed systems alike, the VTX Series features JBL's legendary sound quality coupled with expert support and advanced tools that enable optimal specification, configuration, and operation of VTX systems in any venue, anywhere in the world. The VTX Series delivers a comprehensive solution: the finest sound quality available, plus efficient and intuitive setup, tuning, networking, and control.

TABLE OF CONTENTS

1 - SAFETY

1.1 SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not expose the product to direct rain or sea spray.
6. Clean only with a dry cloth.
7. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
8. Only use attachments/accessories specified by the manufacturer.
9. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
10. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as if liquid has been spilled or objects have fallen into the apparatus, or if the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
11. Contact JBL Professional for advanced servicing issues.
12. CAUTION - DO NOT PERFORM ANY SERVICING UNLESS YOU ARE QUALIFIED TO DO SO.
13. Prolonged exposure to excessive SPL can cause hearing damage. The loudspeaker is easily capable of generating sound pressure levels (SPL) sufficient to cause permanent hearing damage to performers, production crew, and audience members. Caution should be taken to avoid prolonged exposure to SPL in excess of 90 dB.
14. Read the **System Rigging Manual** before installation and use of the product.

1.2 GENERAL HARDWARE INFORMATION

Any hardware used in an overhead suspension application must be load rated for the intended use. Generally, this type of hardware is available from rigging supply houses, industrial supply catalogs, and specialized rigging distributors. Local hardware stores do not usually stock these products. Compliant hardware will be referenced with a working load limit (WLL) and a traceability code.

1.3 ATTACHMENT TO STRUCTURES

A licensed Professional Engineer must approve the placement and method of attachment to the structure prior to the installation of any overhead object. The following performance standards should be provided to the Professional Engineer for design purposes: Uniform Building Code as applicable, Municipal Building Code as applicable, and Seismic Code as applicable. The installation of the hardware and method of attachment must be carried out in the manner specified by the Professional Engineer. Improper installation may result in damage, injury, or death.

1.4 IMPORTANT SAFETY WARNING

The information in this section has been assembled from recognized engineering data and is intended for informational purposes only.

None of the information in this section should be used without first obtaining competent advice with respect to applicability to a given circumstance. None of the information presented herein is intended as a representation or warranty on the part of JBL. Anyone making use of this information assumes all liability arising from such use.

All information presented herein is based upon materials and practices common to North America and may not directly apply to other countries because of differing material dimensions, specifications, and/or local regulations. Users in other countries should consult with appropriate engineering and regulatory authorities for specific guidelines.

Correct use of all included hardware is required for secure system suspension. Careful calculations should always be performed to ensure that all components are used within their working load limits before the array is suspended. Never exceed the maximum recommended load ratings.

Before suspending any speaker system, always inspect all components (enclosure, rigging frames, pins, eyebolts, track fittings, etc.) for cracks, deformations, corrosion, or missing/loose/damaged parts that could reduce strength and safety of the array. Do not suspend the speaker until the proper corrective action has been taken. Use only load-rated hardware when suspending JBL suspendable loudspeaker models.

1.5 ARE YOU NEW TO RIGGING?

If you are new to rigging, you should:

- Know the rules for safe rigging.
- Attend a safe rigging seminar.
- Meet and establish a relationship with a licensed mechanical or structural engineer. Get in the habit of asking them questions instead of assuming their answers. Learn from what they tell you.
- Research and understand the codes, practices, and requirements of the venues where you intend to operate your sound system.

1.6 INSPECTION AND MAINTENANCE

Suspension systems are comprised of mechanical devices and, as such, require regular inspection and routine maintenance to ensure proper functionality. Before suspending or pole mounting any speaker system, always inspect all components (enclosure, suspension frames or brackets, pins, eyebolts, etc.) for cracks, deformations, corrosion, or missing/loose/damaged parts that could reduce strength and safety of the array. Do not suspend or pole mount a speaker until the proper corrective action has been taken.

Installed systems should be inspected at least once a year. The inspection must include a visual survey of all corners and load-bearing surfaces for signs of cracking, water damage, delamination, or any other condition that may decrease the strength of the loudspeaker enclosure.

Accessory suspension hardware provided with or for VTX systems must be inspected for fatigue at least once a year or as required by local ordinance. The inspection must include a visual survey of the material for signs of corrosion, bending, or any other condition that may decrease the strength of the fastener. Additionally, any eyebolts must be checked for possible spin-out of the enclosure.

Refer to the manufacturer's guidelines for inspection and maintenance of all other hardware and fittings.

JBL is not responsible for the application of its products for any purpose or the misuse of this information for any purpose. Furthermore, JBL is not responsible for the abuse of its products caused by avoiding compliance with inspection and maintenance procedures or any other abuse.

Prior to suspending the system, an expert, trained and experienced in suspending speaker systems, should inspect all parts and components.

1.7 SYMBOLS

The following symbols are used in this document:

CAUTION: This symbol gives notice of a potential risk of harm to the individual or the equipment. Instructions marked with this symbol must be strictly followed.

TIP: This symbol gives notice of helpful, relevant information about the topic.

INSTRUCTIONS: This symbol gives notice of instructions that must be followed for proper installation and use of the product.

TOOLS REQUIRED: This symbol gives notice of tools that must be used for proper installation and use of the product.

TIPPING HAZARD: This symbol gives notice of a potential tip hazard. Use caution when moving the cart/apparatus combination to avoid injury from tip-over.

1.8 RESOURCES AND DOCUMENTATION

Several resources are available to VTX Series owners to illustrate proper and safe use of the equipment. Below is an overview of what is available and a brief description of each resource:

USER MANUAL: This document focuses on the electromechanical aspects of the system, including amplification, wiring, speaker presets, tuning, and optimization. User manuals do not include information regarding rigging and suspension hardware.

RIGGING MANUAL: This document focuses on the mechanical aspects of the system, including step-by-step rigging instructions, accessory usage, mechanical limits, and safety instructions. All users must read this document.

SPECIFICATION SHEETS: These documents include detailed specifications for loudspeakers and accessories. Specifications include acoustical performance, material types, weight, and general mechanical information. Specification sheets are available for each product.

CUSTOMER DRAWINGS: This is a collection of files that includes detailed drawings for each SKU. The collection consists of detailed dimensional 2D PDF/DXF documents and simplified 3D DXF models. Depending on the product, additional types of 3D files might be available for download at www.jblpro.com.

VIDEO TUTORIALS: Software and hardware video tutorials are available for watching on the JBL Professional YouTube channel.

2 - MECHANICAL LIMITS

The VTX A6 suspension system and accessories comply with the 2006/42/EC Machinery Directive and have been designed following the guidelines of DGUV regulation 17 (BGV-C1) for a minimum safety factor of 4:1. Minimum safety factor requirements for suspended arrays are often set by local regulations. Use JBL Line Array Calculator 3 (LAC-3) software to check mechanical limits and ensure compliance with local regulations. ANSI Standard E1.8 (Entertainment Technology Loudspeaker Enclosures Intended for Overhead Suspension), Section 5.3.4, specifies a minimum safety factor of 5:1. If compliance with the ANSI standard is needed, make sure that the array design produces a minimum safety factor of 5:1.

2.1 SUSPENDED ARRAY

ARRAY FRAME	NOTES	SAFE LIMIT	MAXIMUM LIMIT
VTX A6 MF	Non-mixed arrays using the VTX A6 Mini Frame	(15)	(24)
VTX A6 SB	(1) Suspension Bar used as an Array Frame (top)	(16)	(24)
VTX A6 SB (2)	(2) Suspension Bars are used (top and bottom)	(12)	(24)
VTX A6 CM	Non-mixed arrays using the VTX A6 Ceiling Mount	(8)	(8)

2.2 GROUND-STACKED ARRAYS

ACCESSORY	NOTES	SAFE LIMIT	MAXIMUM LIMIT
VTX A6 BP	Base plate for ground stacking A6 systems	(2)	(8)

TERMINOLOGY:

Safe Limit: The safe limit provides the number of cabinets that can be used in an array while maintaining a safety factor of 4:1 or higher. The safety factor of an array is determined by the number of cabinets, the array shape, and the overall array angle. An array constructed within the safe limit will always yield a safety factor greater than 4:1 regardless of array parameters and conditions. Ground-stacked arrays within the safe limit are stable under normal conditions. Designs exceeding the safe limit and up to the maximum limit are possible, but JBL Line Array Calculator 3 software should be used to check mechanical safety for the given configuration.

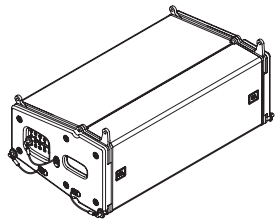
Maximum Limit: Arrays larger than the maximum limit are not allowable under any conditions.

NOTES:

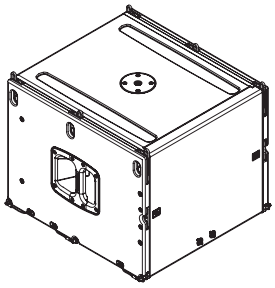
- LAC-3 allows for array designs with a minimum design factor of 4:1. Anything lower than that is not allowed.
- For exact mechanical limits of mixed arrays (A6s suspended under B15s), always check the design with LAC-3.
- Safe and maximum limits are only applicable to the specified accessory (i.e. base plate or array frame). When several accessories are combined (for example, ground-stacked arrays with a base plate and subwoofers underneath), the design should always be evaluated and checked with LAC-3.
- For additional information on B15 limits, refer to the **VTX B15 Rigging Manual**.

CAUTION: Limits for ground-stacked arrays always assume that the stacking surface (floor or stage) is flat. Do not deploy ground-stacked arrays on non-flat surfaces to avoid tipping hazards.

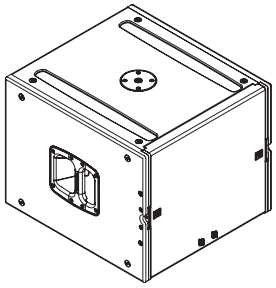
3 - SYSTEM COMPONENTS



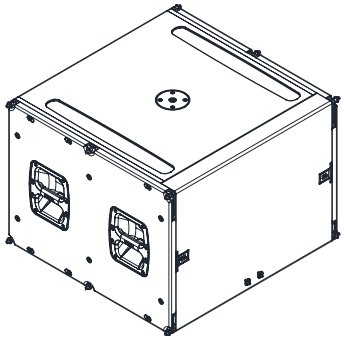
VTX A6



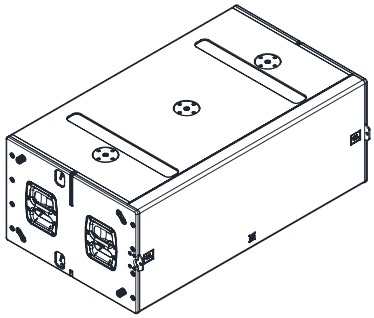
VTX B15



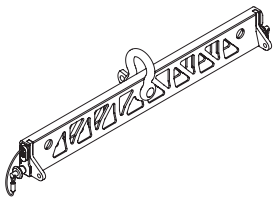
VTX B15G



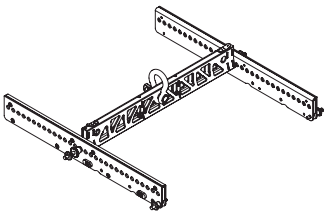
VTX B18



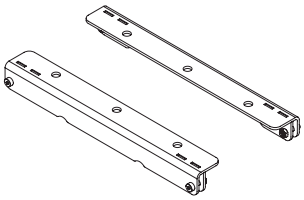
VTX B28



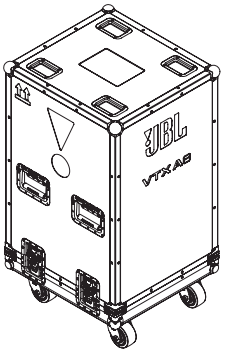
VTX A6 SB | Suspension Bar



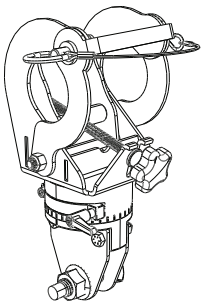
VTX A6 MF | Mini Frame



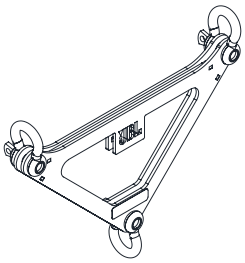
VTX A6 CM | Ceiling Mount



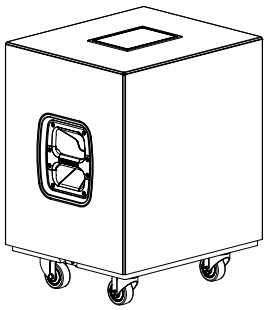
VTX A6 Road Case



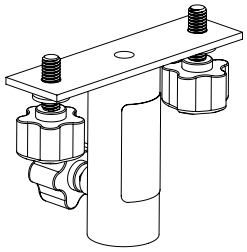
VTX RC500 | Rotating Clamp



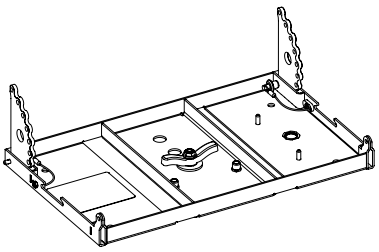
VTX DELTA | Delta Plate



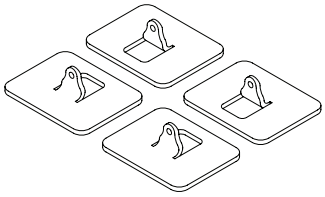
VTX B15 ACC | Caster Board & Cover



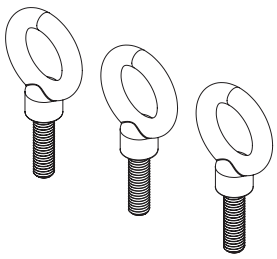
VTX PM | Pole Mount



VTX A6 BP | Base Plate



VTX B1 GND



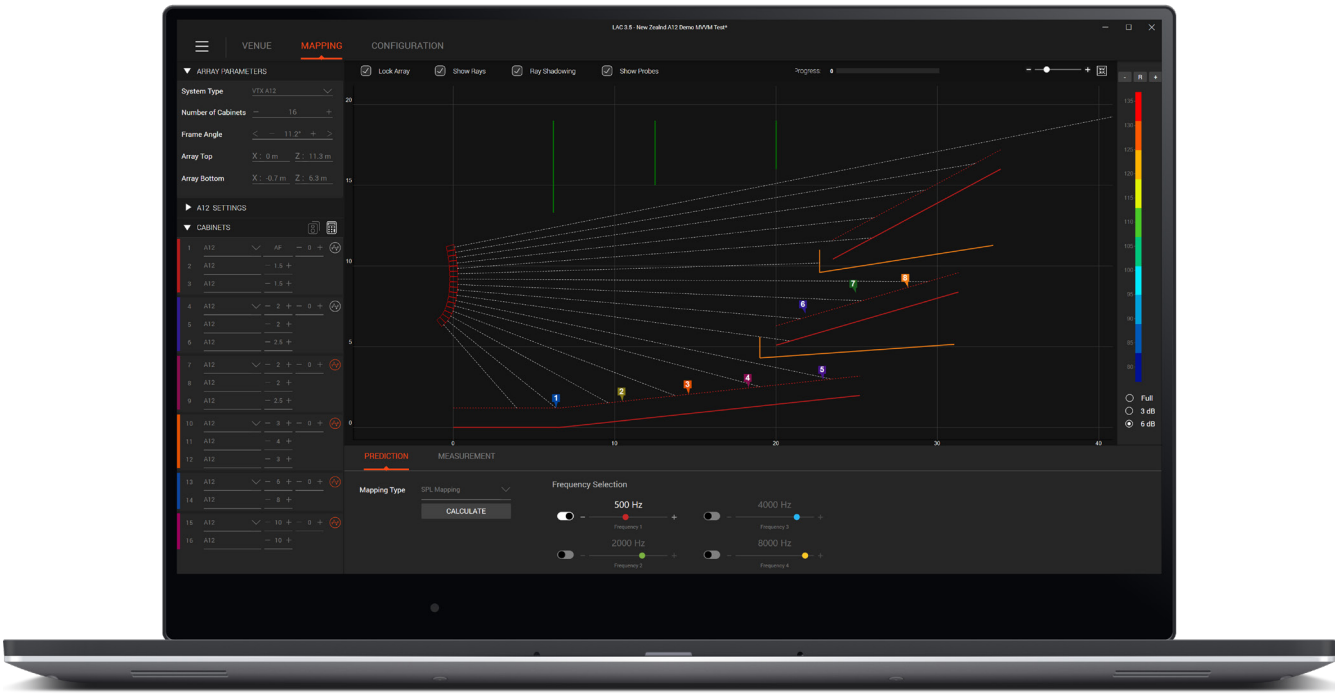
229-00009-01 | M10 Eyebolt Set

CAUTION: Always use components and accessories specified and approved by JBL Professional. When a cart is used, use caution when moving the cart to avoid injury from tip-over.

4 - SOFTWARE

4.1 LINE ARRAY CALCULATOR 3™

Line Array Calculator 3 acoustical prediction software is used for the design and mechanical validation of VTX Series line array systems. Using LAC-3 is a three-step process. First, venue dimensions are defined using either X/Y/Z coordinates or the fast distance/angle method. Second, array configurations are built from VTX Series loudspeaker models. Third, virtual measurement microphones and a suite of built-in DSP functions are applied to make predictions of the system's coverage and the linearity that will be delivered by the defined array configuration in the specified space. Loudspeaker quantities and models, splay angles, and array aiming can be modified until prediction shows that the desired coverage is attained throughout the venue. The built-in coverage-and-delay calculator determines subwoofer delay values for electronic delay steering (EDS) that achieves optimal low frequency coverage.

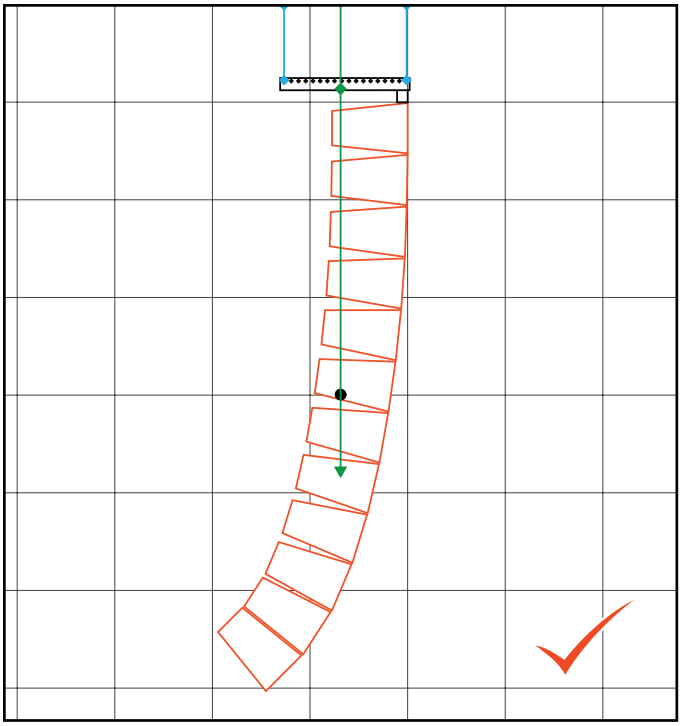


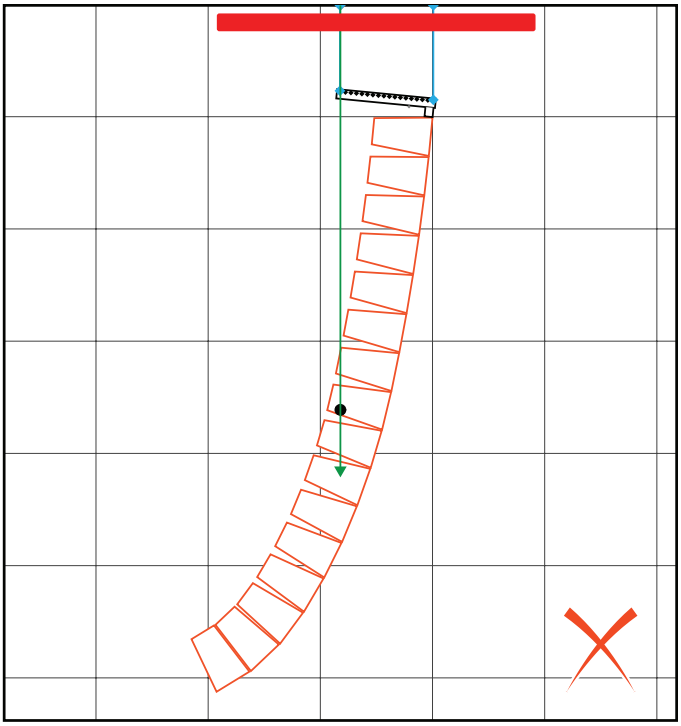
Beyond acoustical predictions, LAC-3 validates the mechanical properties of arrays and selected JBL accessories. Configuration limits are calculated in real time, for either suspended or ground-stacked arrays, based on array parameters such as the number of cabinets, cabinet-to-cabinet splay angles, overall array aiming, and selected accessories. In the case of suspended arrays, a safety factor is calculated to aid in designing systems that conform to local regulations. Warnings and error messages notify the user when an array or a specific accessory is outside safe working limits. For ground-stacked arrays, a tipping factor calculated from a complex set of variables suggests whether an array design is likely to be stable, potentially unstable, or unsafe. Array statistics like array size, depth, and weight are also calculated, and a PDF report facilitates system deployment. Mechanical data can be transferred to JBL's Array Link™ app running on an iOS® or Android™ mobile phone using a QR code, with no need for internet connectivity. All relevant rigging information and options are presented in an easy-to-understand layout.

CAUTION: All VTX systems should be designed and validated using the LAC-3 software application. This is the only way to ensure that safe mechanical conditions are met for any given configuration.

4.2 SUSPENDED ARRAYS

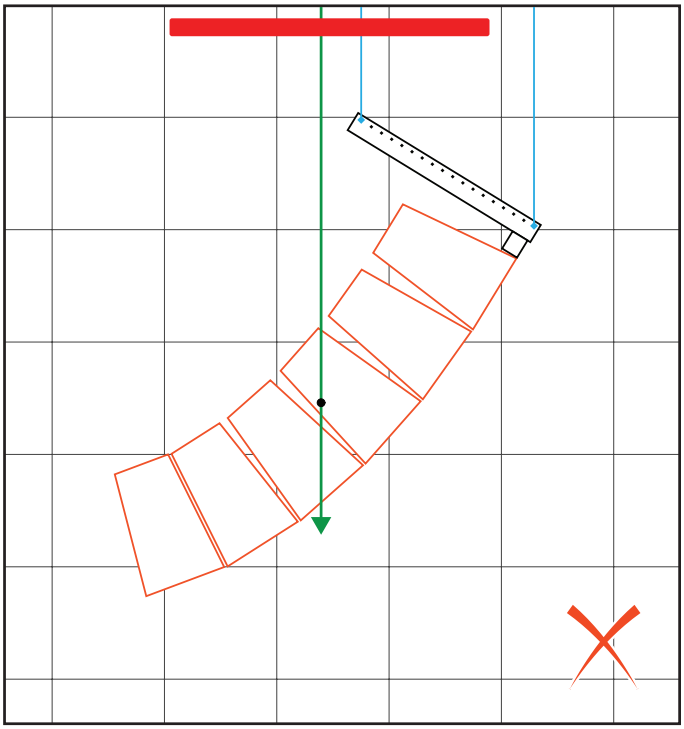
Line Array Calculator 3 checks the mechanical safety of suspended arrays and takes into consideration all variables that can affect the mechanical safety and safety factors. The software validates the mechanical stresses on the enclosures, speaker rigging components, and all accessories used as part of an array. Parameters like array down angle and curvature are considered and a safety factor is generated for the given configuration. The generated safety factor value represents the minimum of any components used, and values are always rounded down.





A red banner appears at the top of the array views when the software detects a mechanical error. The banner explains the issue, and some configurations might include more than one error. In that case, the software will present the additional messages as the errors are cleared. Configurations generating a mechanical error should never be used, as their safety factor falls under the minimum of 4:1. The safety factor generated by the application can be used to design arrays with safety factors other than 4:1 and based on local regulations.

In addition to mechanical and safety errors, the software notifies of configurations that cannot be realized in real life. An example of such a condition is when the center of gravity of an array falls outside of the footprint of the array frame. In this case, the error can be cleared by changing the down angle or using a pull-back at the bottom of the array.



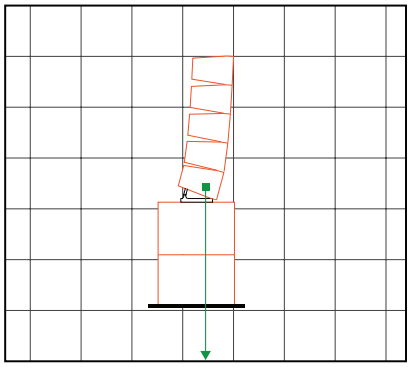
● Center of Gravity ● Suspension Points

4.3 GROUND-STACKED ARRAYS

Line Array Calculator 3 checks for the mechanical safety of ground-stacked arrays. The software takes into consideration several variables that can affect the stability of an array, including outside factors such as someone pushing on an array. Based on this data, LAC-3 generates a safety assessment factor and notifies the user of potential mechanical or stability problems. Errors and warnings generated fall into one of the following categories:

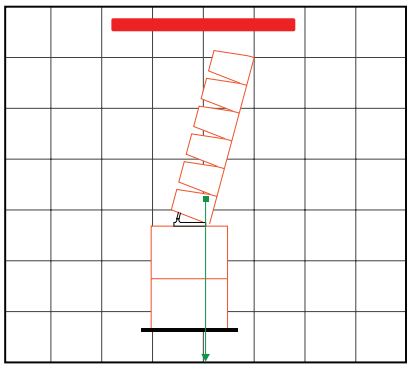
No errors or messages

In this case, the array is stable under normal conditions and can be used as is. The array also complies with the mechanical limits set by JBL for the speakers and selected accessories.



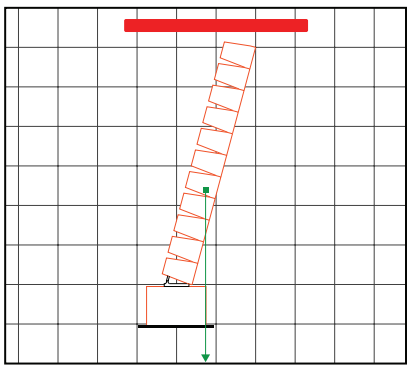
WARNING: Stability Hazard! - Stack Could Become Unstable - Secure to Ground

This message is an alert that the array is potentially unstable and a tipping hazard condition has been detected. The user is responsible for securing the array to the ground, stage, or other structure that can provide additional support and is rated for the weight of the array. This message may also be warning of external factors that can influence stability, such as someone accidentally pushing the array.



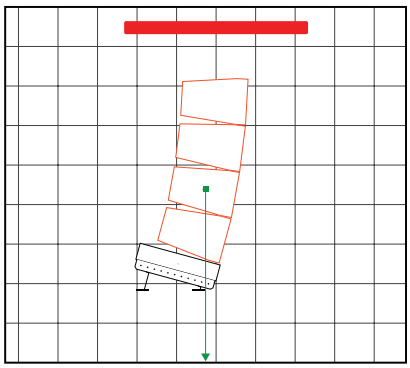
Configuration exceeds the maximum number of boxes allowed

This message is presented when the specified array design exceeds the mechanical limits set by the JBL team for the speakers or selected accessories. Array designs that trigger this message should not be used under any conditions, as they can lead to hardware damage and/or injury.



Invalid CG Location

This message is presented when the center of gravity of an array design exceeds the footprint of the selected accessory. Array designs that trigger this message should not be used under any conditions, as they can lead to hardware damage and/or injury.

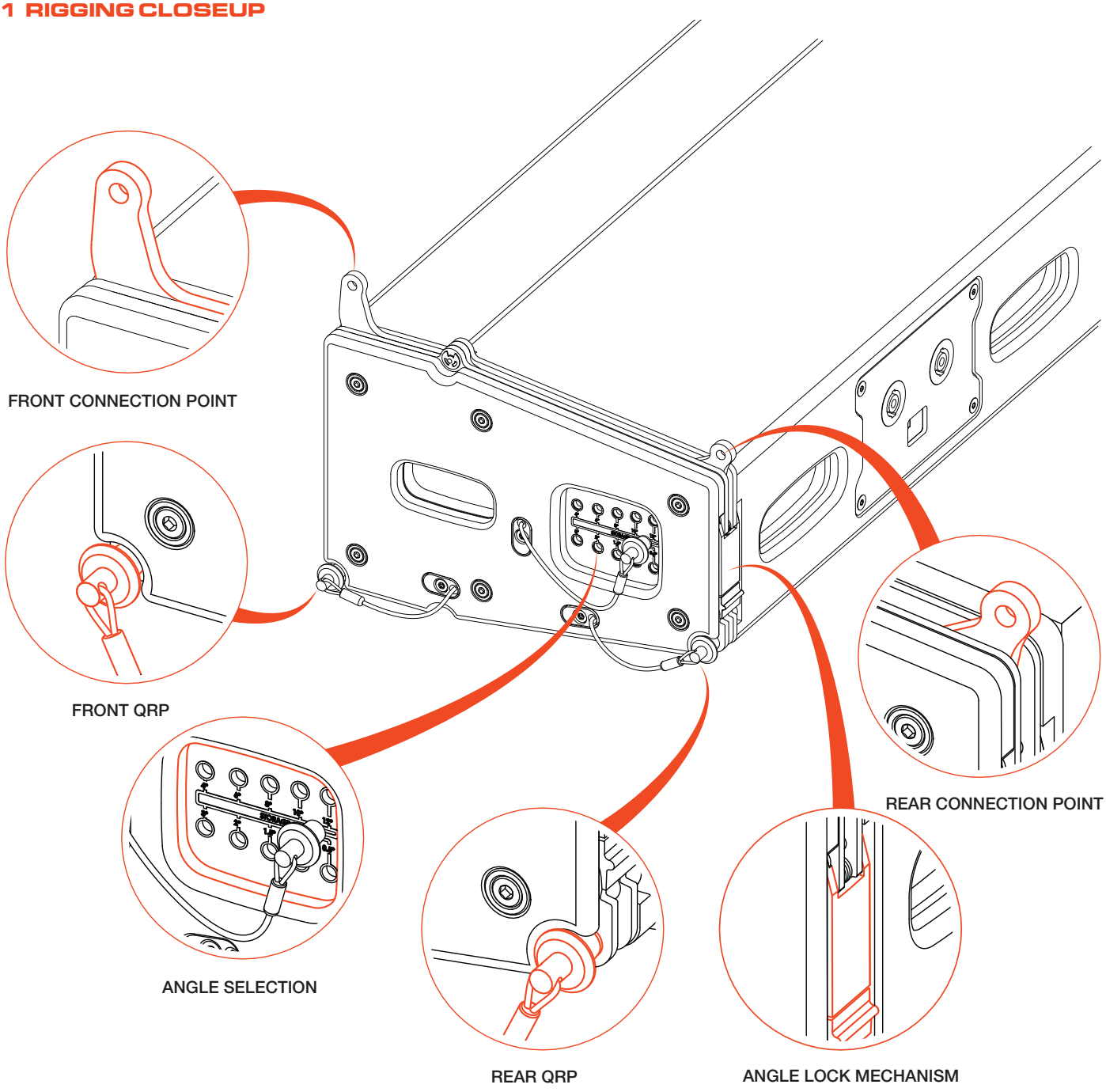


● Center of Gravity

5 - RIGGING SYSTEM OVERVIEW

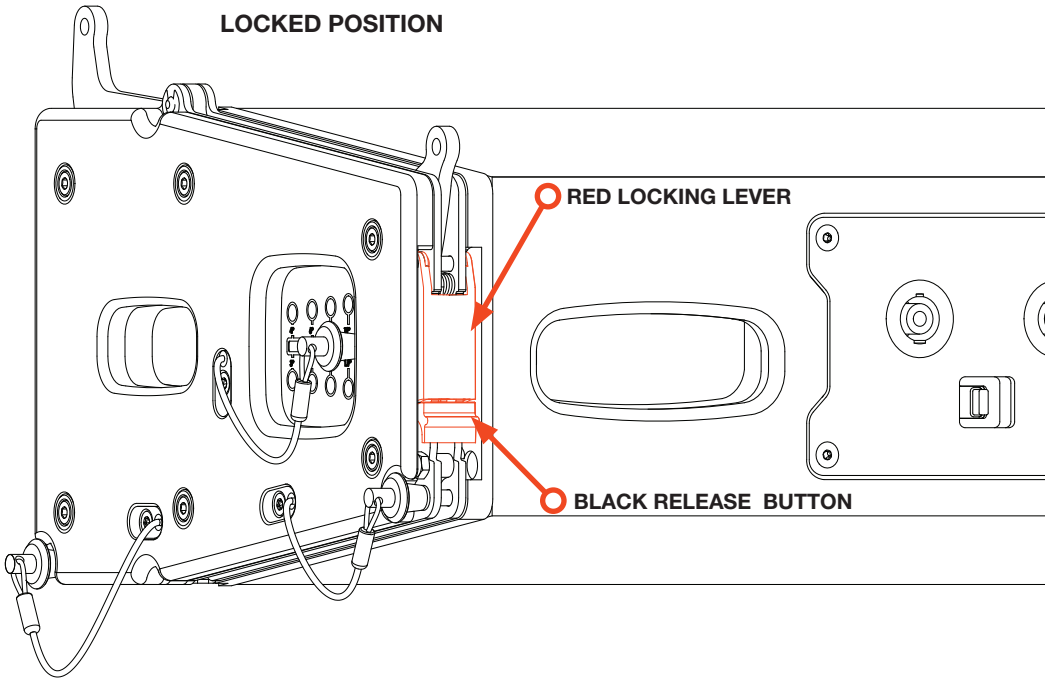
VTX A6 cabinets include a next-generation rigging system that is easy to use, simple to understand, and highly accurate. The VTX A6 Case contains and transports a vertical stack of up to four A6 enclosures, collapsed and set to the 15-degree position. Cabinet-to-cabinet splay angle selection is done while the system is still on the ground, simply by moving the angle selection quick release pins (QRP) to the desired positions. When speakers are lifted off a case, an automatic Angle Lock mechanism engages to secure the cabinets to their selected positions. The cabinets maintain their splay positions until the user releases the Angle Lock mechanism, at which point the cabinet angles collapse back to 15 degrees and the cabinets can be stored in the Case.

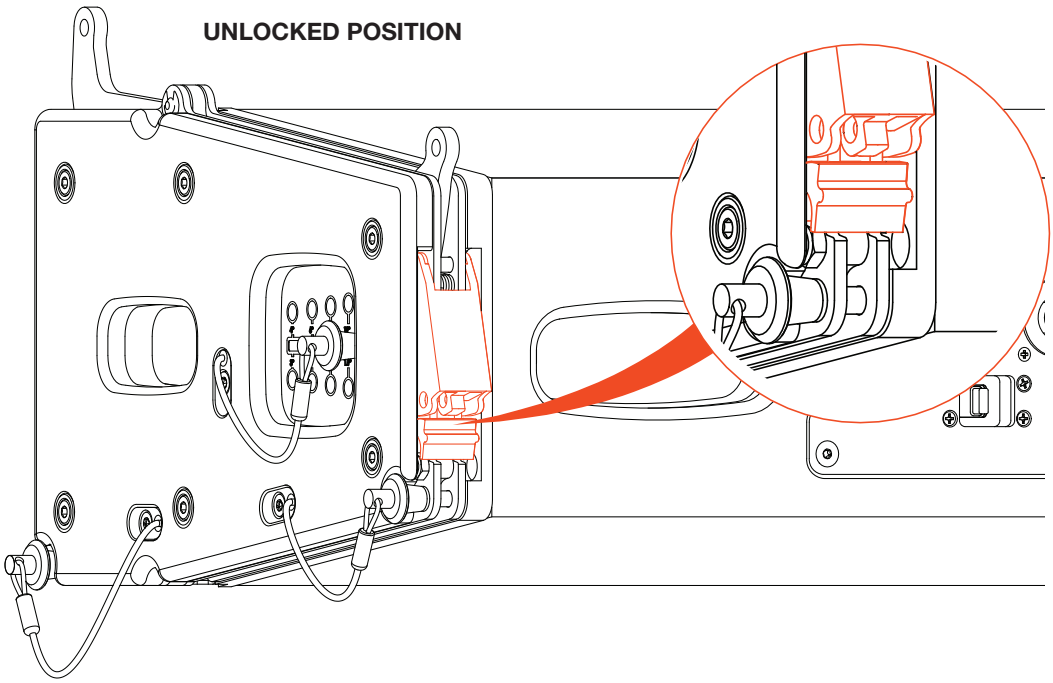
5.1 RIGGING CLOSEUP



5.2 ANGLE LOCK MECHANISM

VTX A-Series cabinets include an innovative Angle Lock mechanism that automatically engages to fix their angles at the selected positions when the system is suspended. Angles can be preselected while the system is still on the ground, eliminating extra steps. The Angle Lock mechanism consists of two main parts: the red **LOCKING LEVER** and the black **RELEASE BUTTON**. The system is locked when the locking lever is recessed into the cabinet, and remains locked until the Angle Lock mechanism is released. When it's time to de-rig the system, pressing the **RELEASE BUTTON** disengages the Angle Lock mechanism, which allows the cabinets to collapse again to an angle of 15 degrees for travel in the VTX A6 Case..





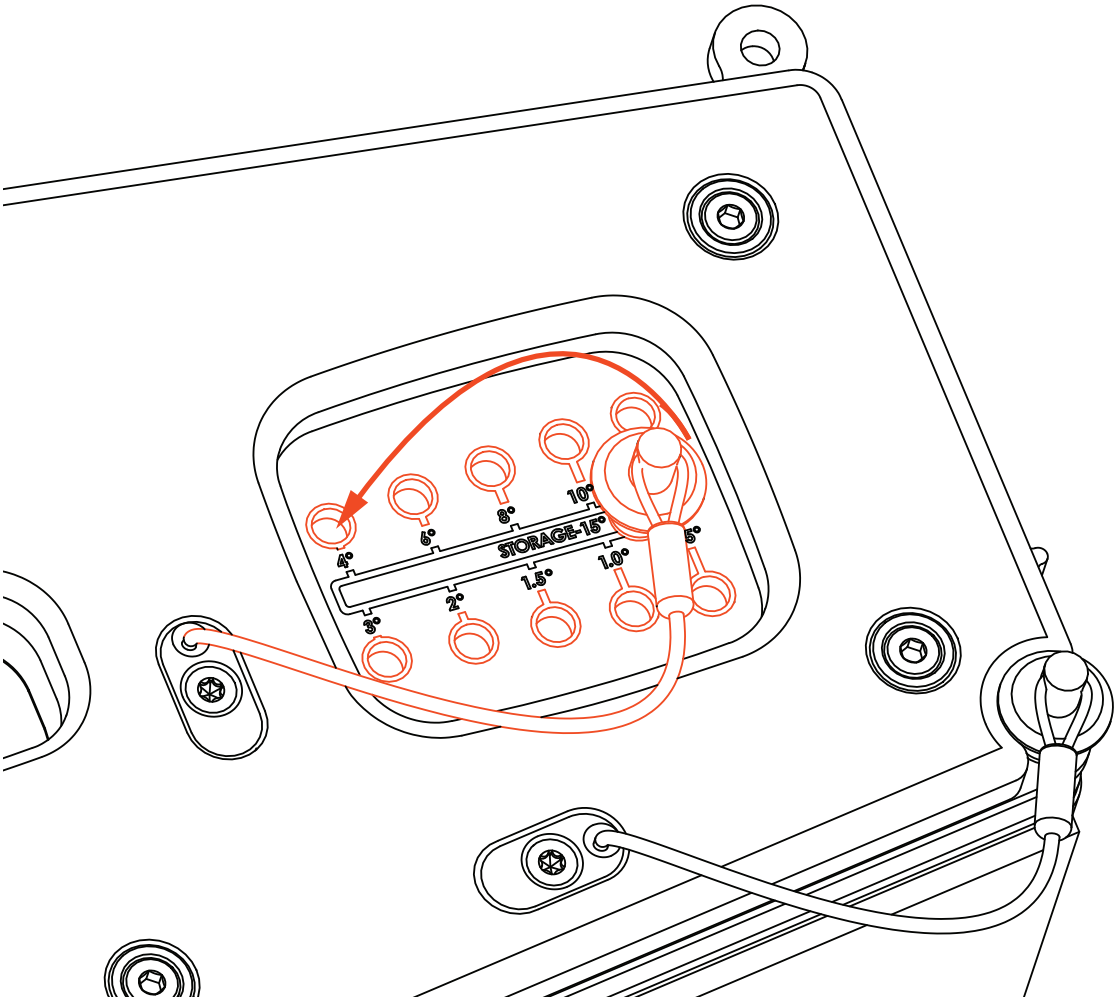
5.5 ANGLE SELECTION

The Angle Selection panels on either side of each VTX A6 cabinet, are used to select the cabinet-to-cabinet splay angle. The panels offer eleven unique positions, labeled in degrees. The positions range from 0.5 to 15 degrees.

VTX A6 ANGLE OPTIONS: 0.5°, 1.0°, 1.5°, 2°, 3°, 4°, 6°, 8°, 10°,12°, 15°

A dedicated quick release pin is available for setting the angle. Angles are selected while VTX A6 cabinets sit in the VTX A6 Road Case resting on the ground. Since the quick release pins are not under load when the system is on the ground, they can be moved freely to the desired position. During transportation, VTX A6 cabinets should always be set to 15 degrees. This ensures the rigging system is locked, preventing any accidental movement or unintended change of angle.

To select an angle, remove the quick release pins from the STORAGE position (15°) and set them to the position for the desired angle. Lifting the array from the ground shifts weight to the quick release pins, making angle selection no longer possible.



CAUTION: Every quick release pin in a VTX A6 system must be set in a hole before the array is flown. Do not suspend a VTX A6 system if any pins hang free.

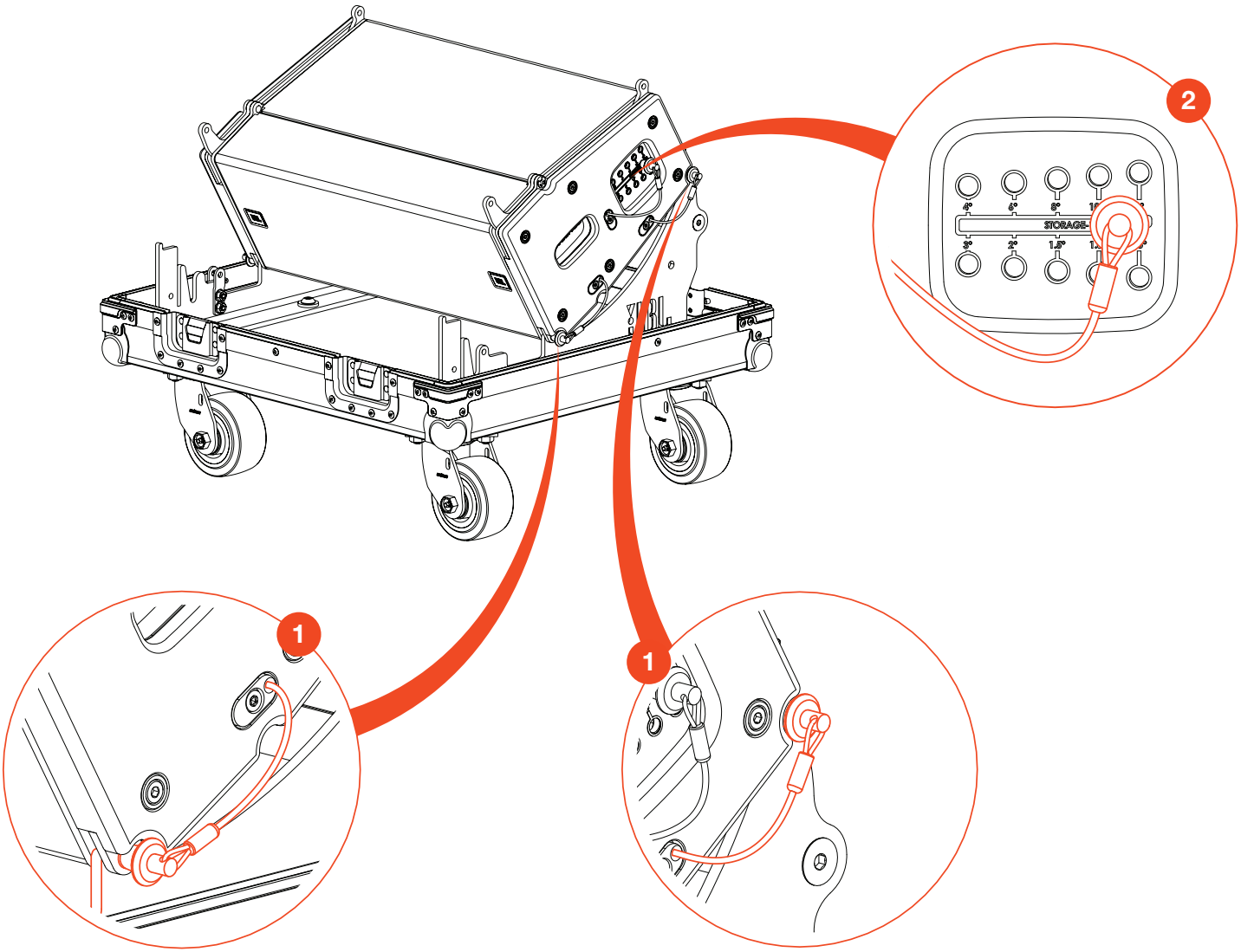
6 - TRANSPORTATION

The VTX A6 Road Case carries four VTX A6 cabinets and all four cabinets should be set to the STORAGE position (15º) to secure the rigging for transportation.

6.1 INSTALLING VTX A6 CABINETS ON THE ROAD CASE

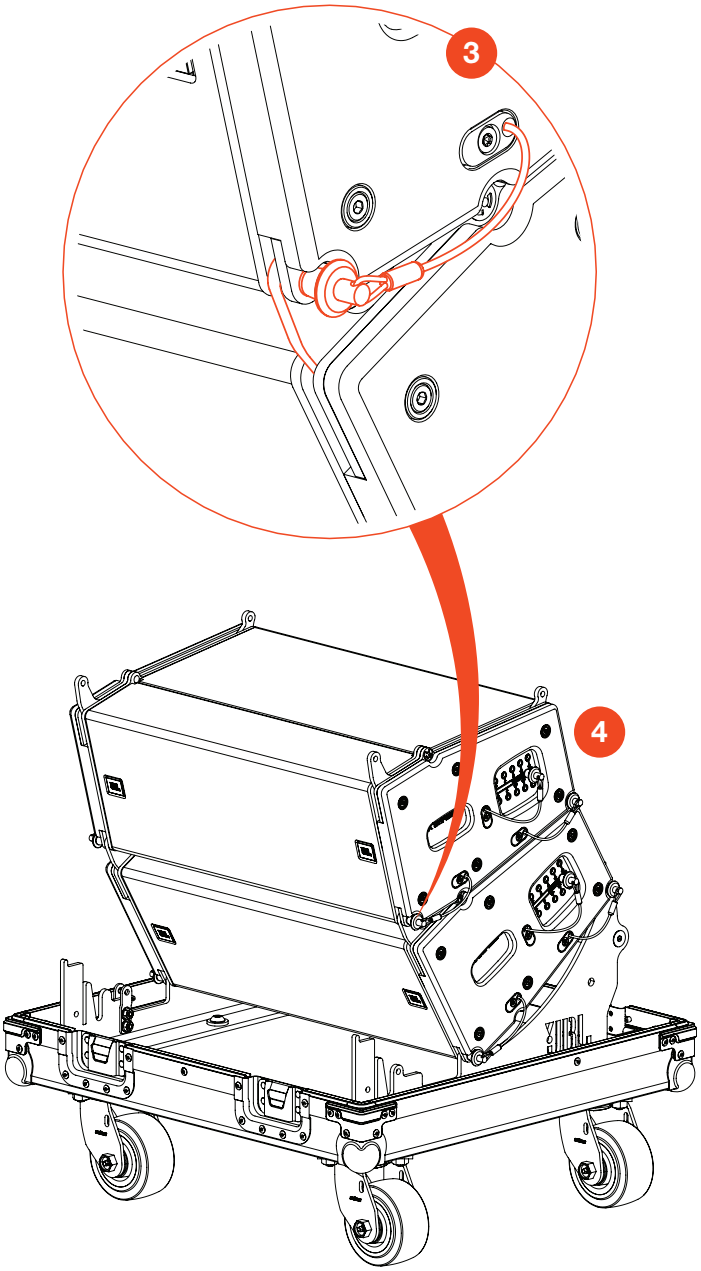
STEPS:

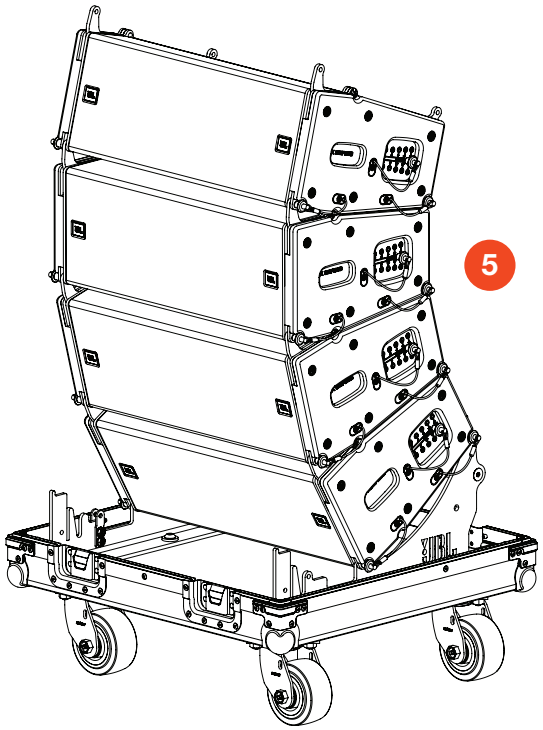
1. Attach the first A6 cabinet to the case.
2. Select the STORAGE position (15º) for the cabinet and set the red locking lever to the locked position.



STEPS:

3. Attach the next cabinet and install the pins on each side to secure the cabinets together.
4. Set the cabinet angle to the STORAGE position (15º) and make sure the red locking lever is in the locked position.
5. Repeat this process until all four cabinets are secured on the VTX A6 Road Case Bottom.

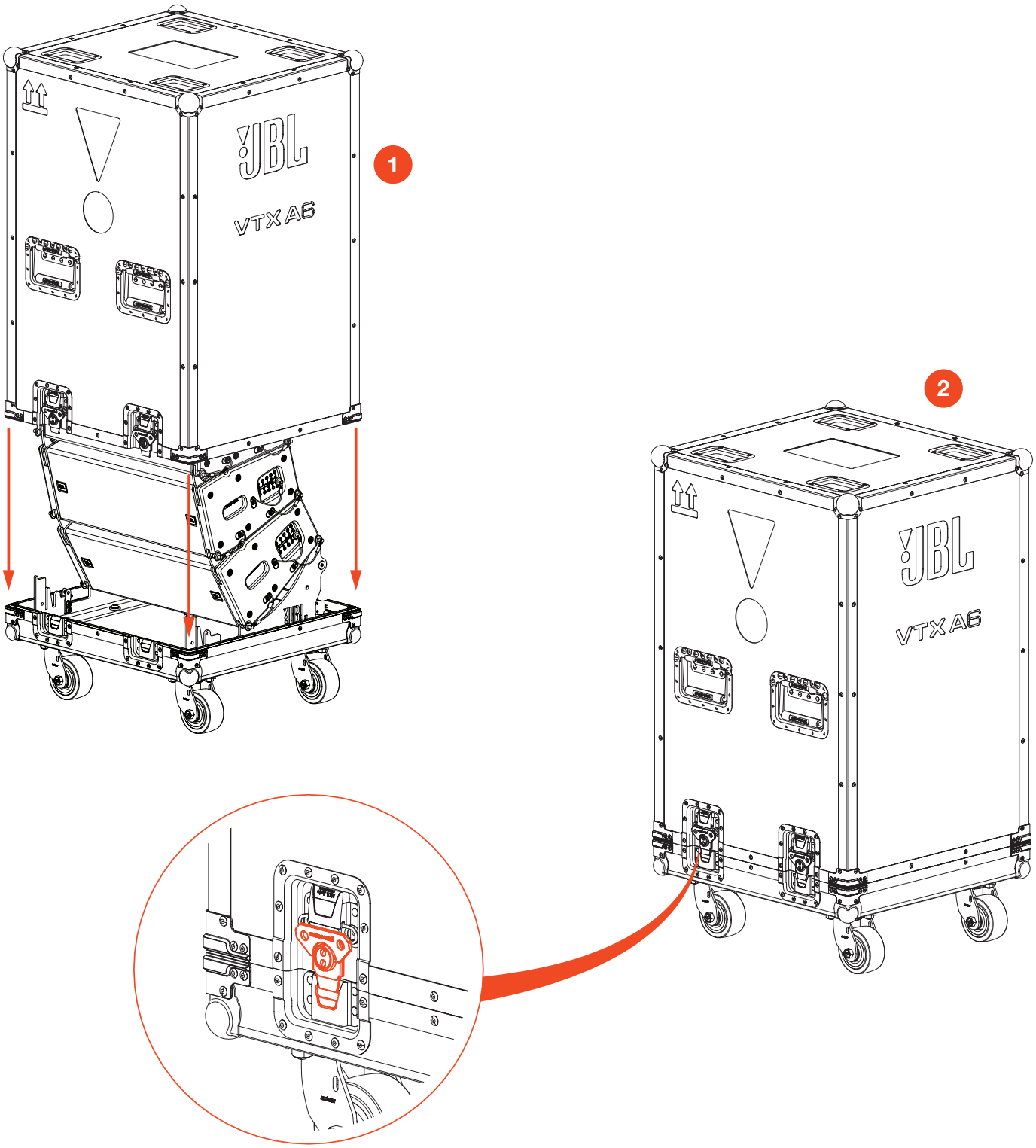




6.2 CLOSING THE CASE

STEPS:

1. Lower the Road Case Top over the stack of A6 cabinets, aligning it with the footprint of the Road Case Bottom.
2. Secure the two parts of the A6 Road Case with the four cam latches.

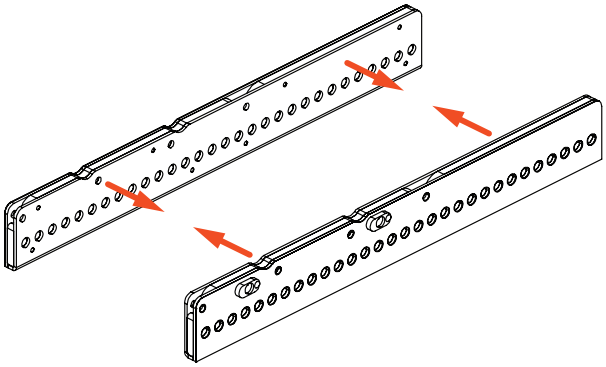


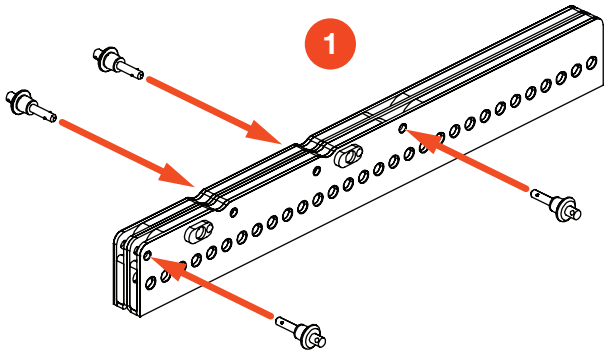
6.3 STORING ACCESSORIES

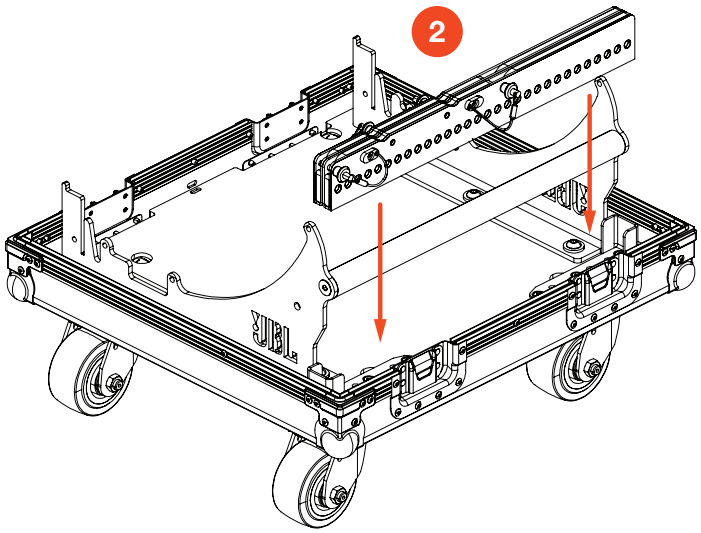
The VTX A6 CASE includes mounting brackets for storing one A6 Mini Frame, one Base Plate and one Suspension Bar.

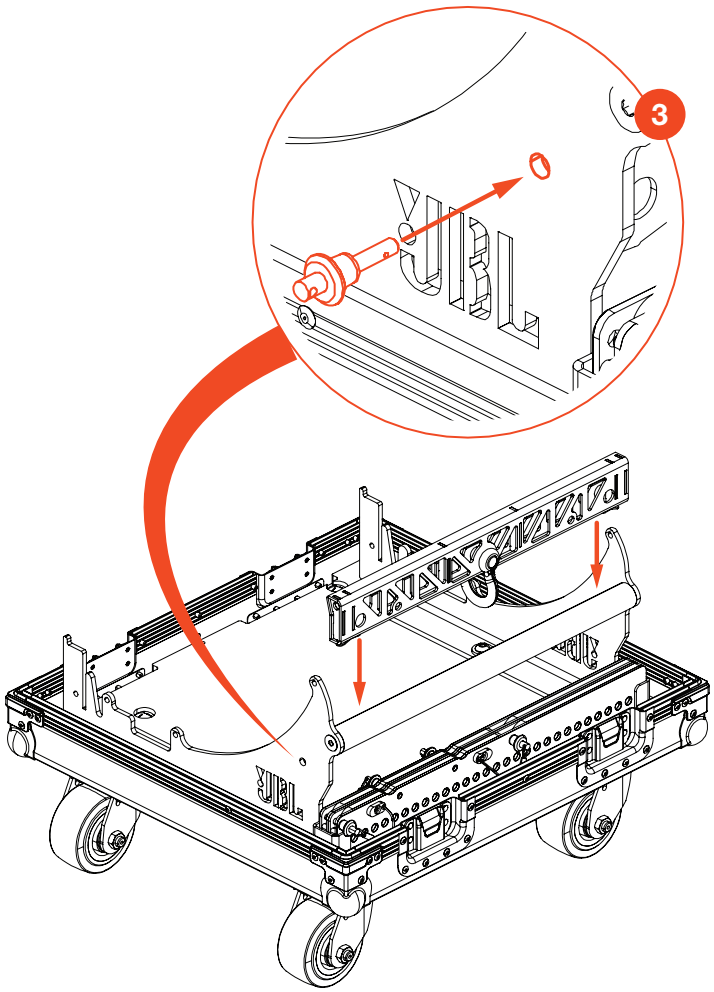
STEPS | MINI FRAME:

1. Pin the side arms to one another using the attached pins.
2. Drop the side arms into the slot at the rear of the case; the magnets in the case will hold them in place.
3. Pin the Spreader bar between the Case brackets using the attached pins.



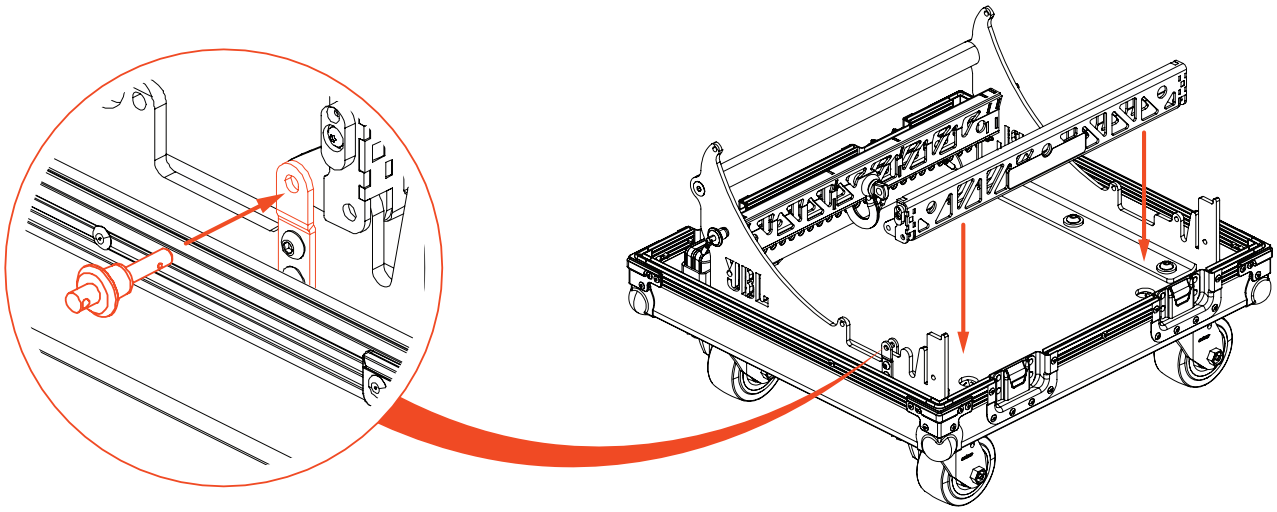






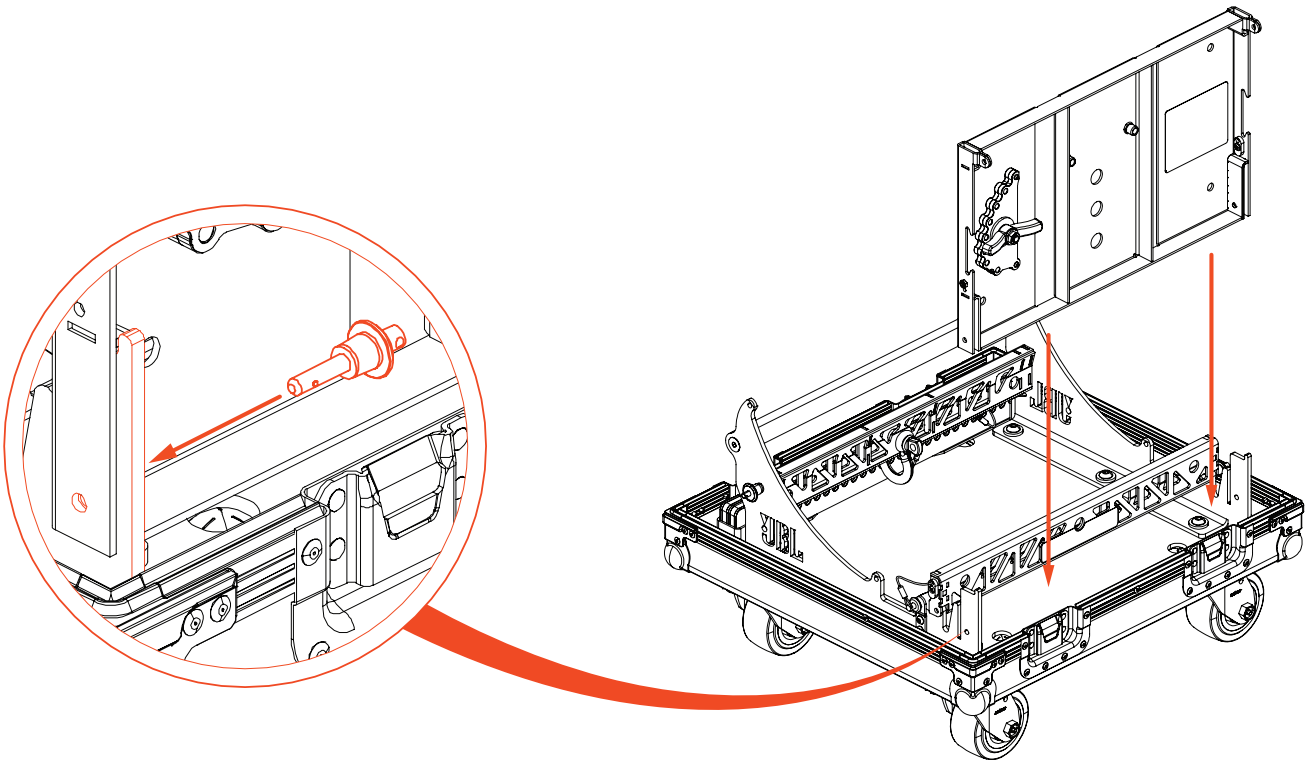
STEPS | SUSPENSION BAR:

1. With the pins removed, drop the Suspension Bar into the two brackets in the front of the road case bottom.
2. Using the pins attached, pin the Suspension Bar through the brackets on either end to secure it.

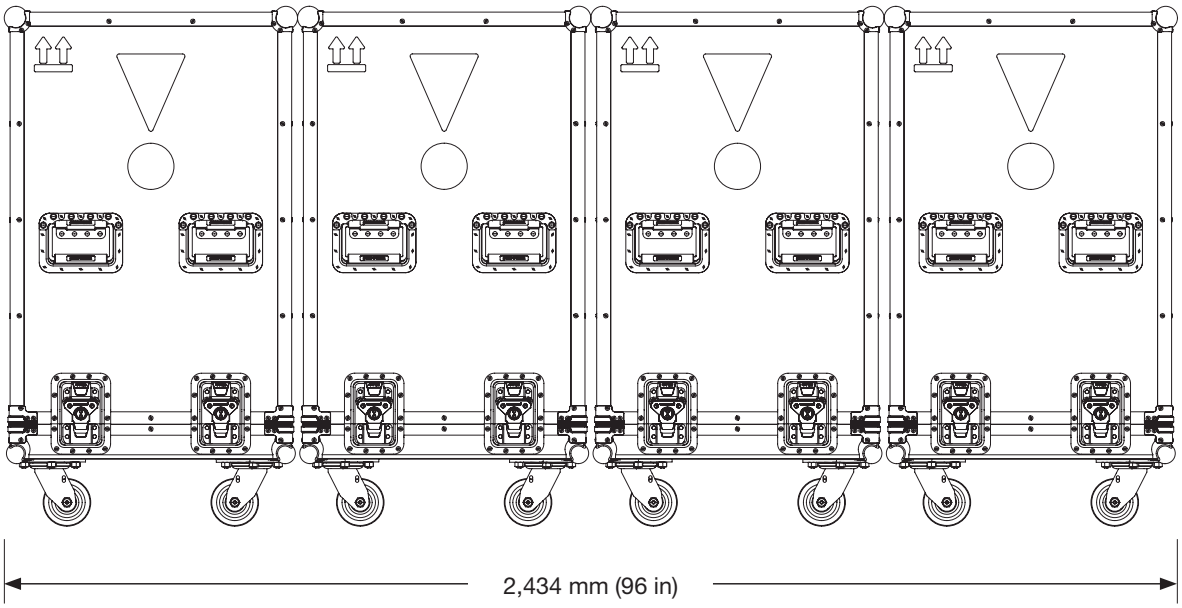


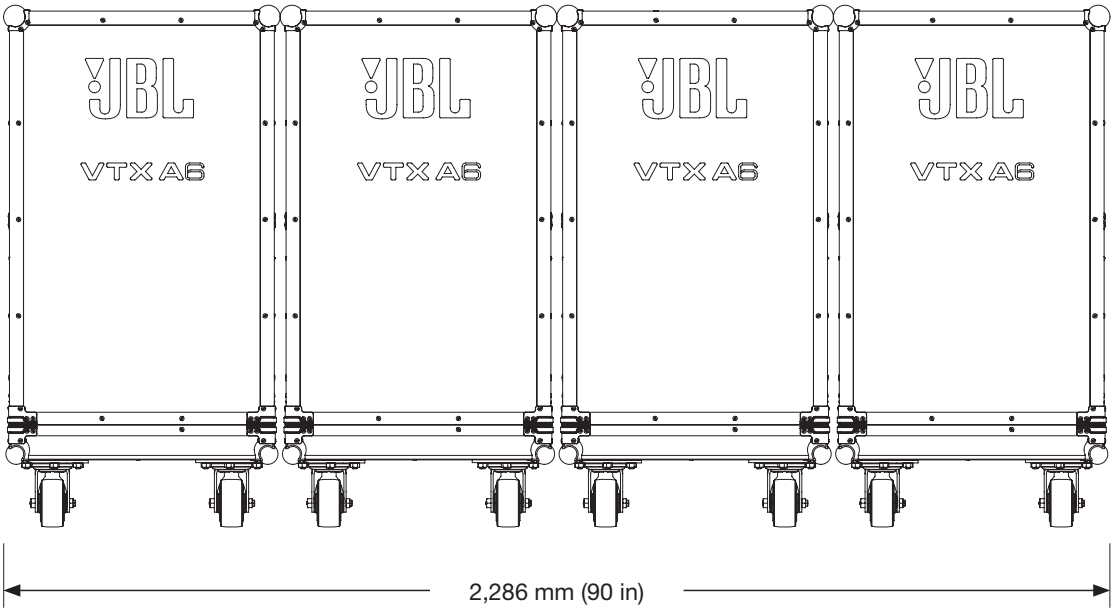
STEPS | BASE PLATE:

1. With the pins removed, drop the Base Plate into the two brackets in the front of the road case bottom.
2. Using the pins attached, pin the Base Plate through the brackets on either end to secure it.



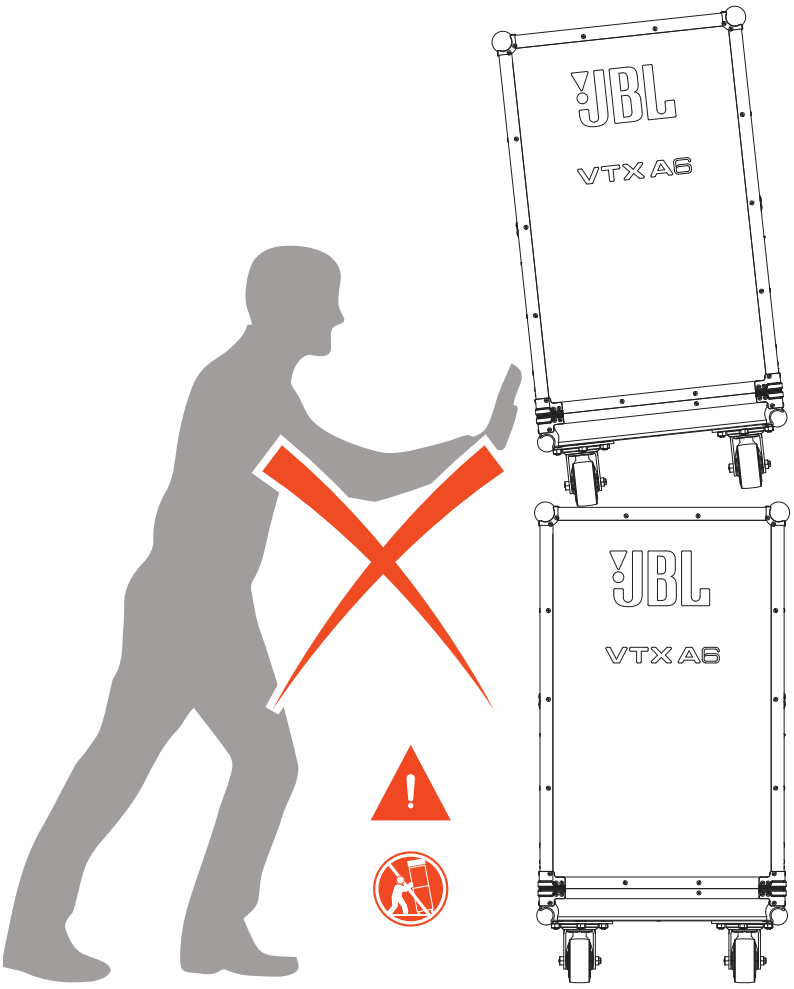
6.4 TRUCK PACKING





6.5 STORING AND STACKING CASES

The VTX A6 CASE includes four caster cups that can be used to double stack cases. The cups are rated to handle the load of a fully loaded VTX A6 CASE but are intended for storage, not transportation.



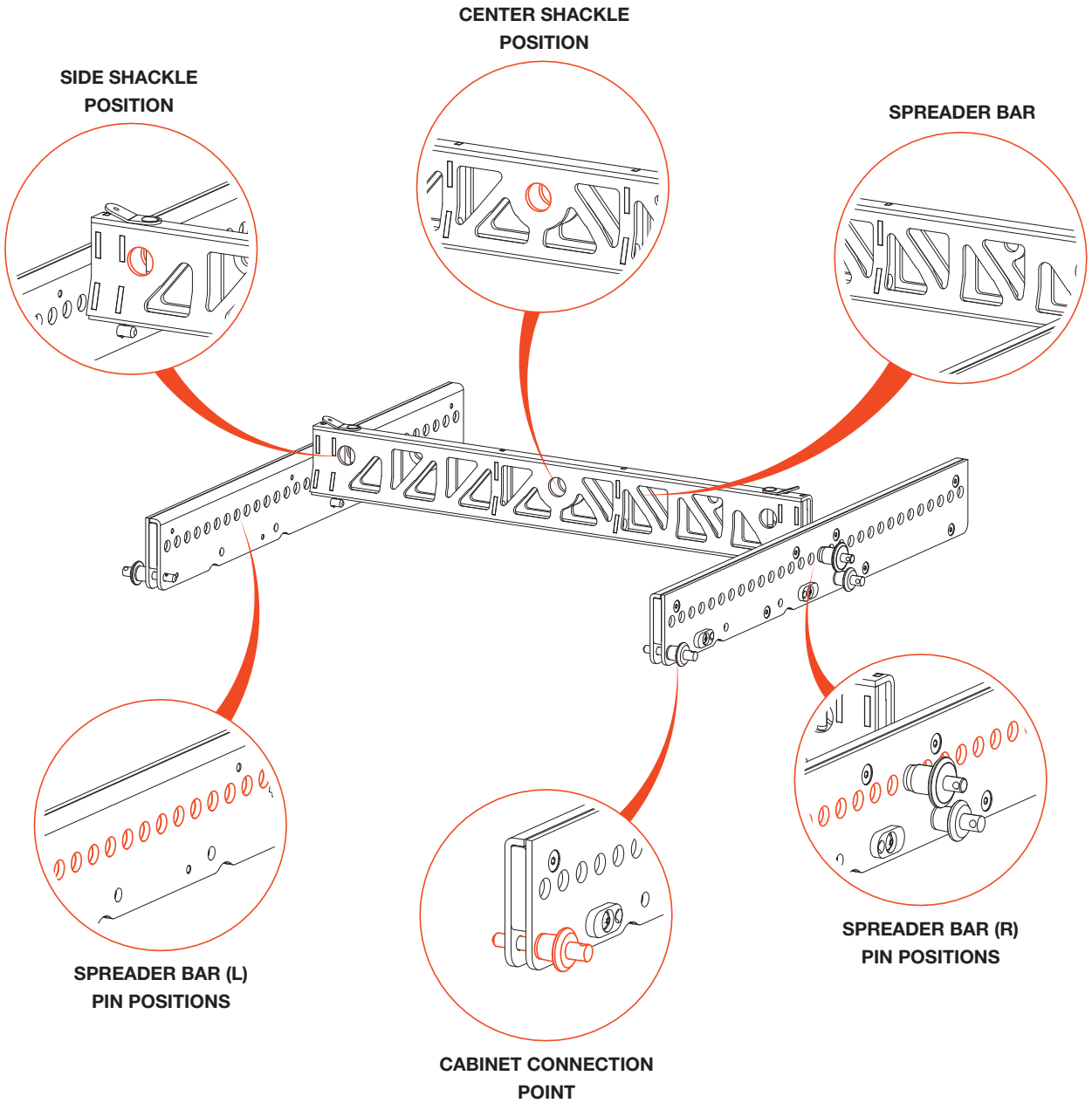
TIPPING HAZARD: Pushing stacked cases, is unsafe. This can result in falling cases and personal injury. Never push stacked cases.

CAUTION: The cups are rated to handle the load of a fully loaded VTX A6 CASE but are intended for storage only, not transportation.

7 - VTX A6 MF MINI FRAME

The VTX A6 MF Mini Frame is a lightweight, compact, and inexpensive array frame used for suspending VTX A6 and VTX B15 arrays. The three-piece design is comprised of two side arms and one Spreader Bar. The side arms connect to the cabinets, while the Spreader Bar can be pinned to one of 30 pick-point positions, providing excellent tilt resolution. The Mini Frame was designed to work primarily in single-point applications, although dual-point is supported by using the two Spreader Bar side shackle positions. The Mini Frame can be used in conjunction with the VTX RC500 Rotating Clamp, allowing smaller A6/B15 arrays to be suspended from standard-sized trusses or pipes. The three pieces can be collapsed and pinned together for storage.

7.1 MINI FRAME OVERVIEW



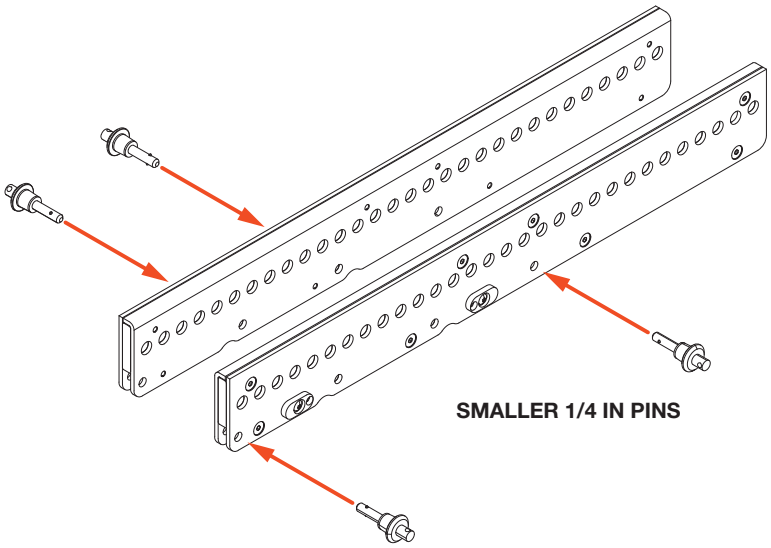
TIP: The Mini Frame is compatible with ½-inch shackles. Two, high-quality, black ½-inch shackles are included with every Mini Frame. Always use high-quality shackles from reputable sources.

7.2 MINI FRAME STORAGE CONFIGURATION

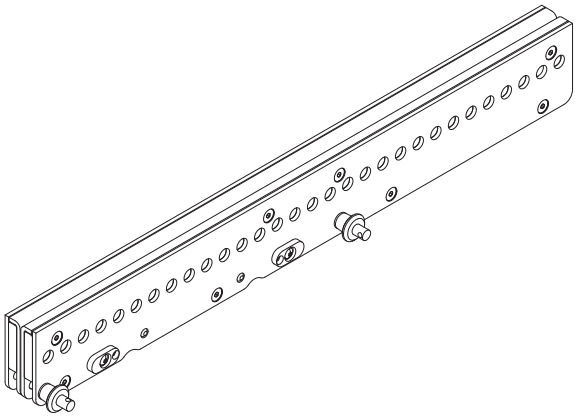
The Mini Frame can be disassembled and pinned together for storage and transportation. Follow the instructions below to prepare the Mini Frame for storage.

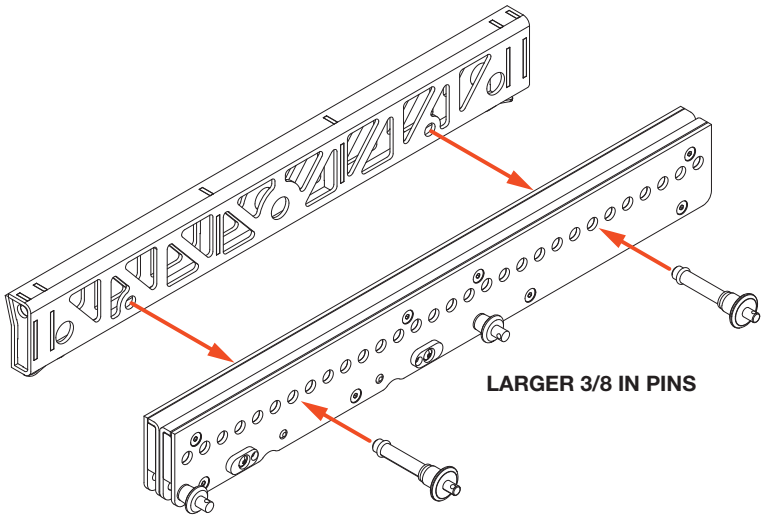
STEPS:

1. Pin the two side arms together using the four quick release pins connected to the side arms. It is not important which storage holes are used for the pins, as this is just for storage.
2. With the two side arms pinned together, use hole positions 7 and 24 to pin the Spreader Bar onto the side arms.

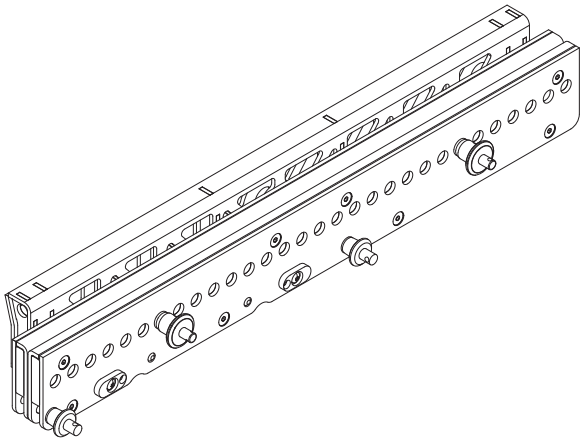


SMALLER 1/4 IN PINS





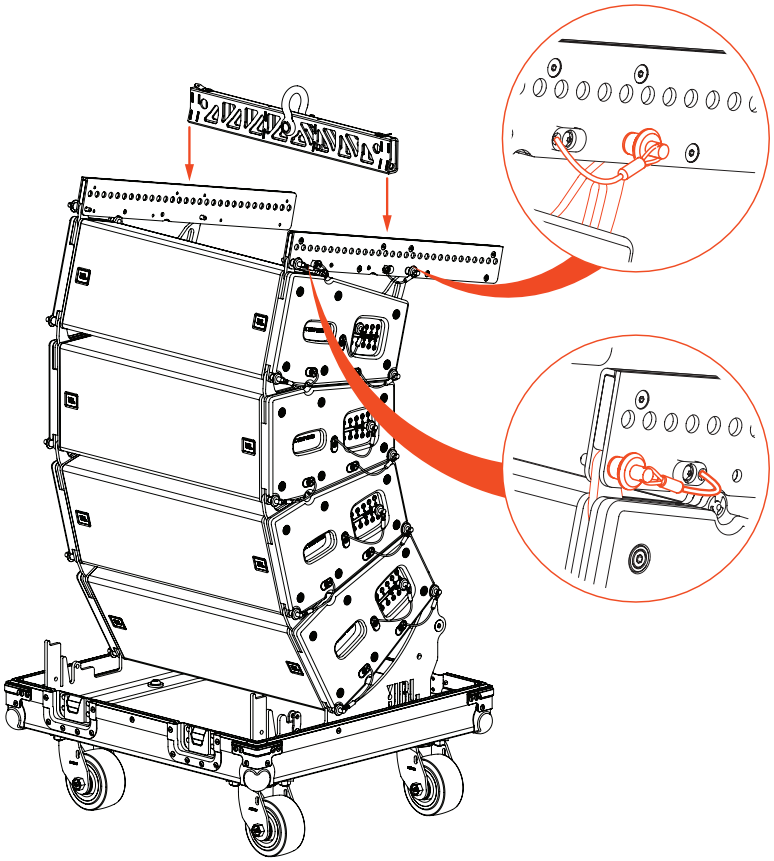
LARGER 3/8 IN PINS

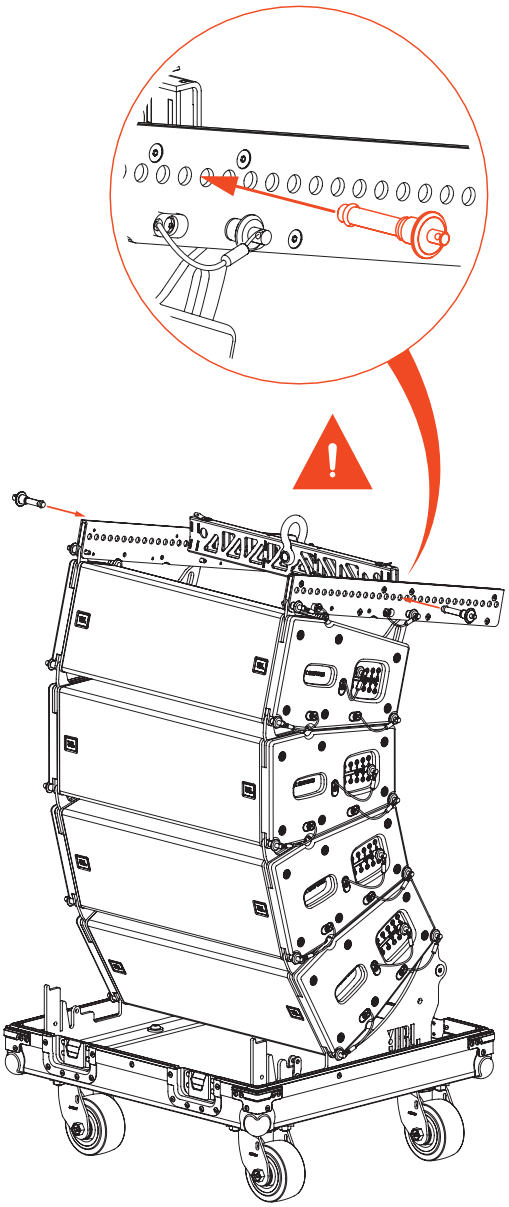


7.3 ATTACHING THE MINI FRAME TO AN A6 CABINET

STEPS:

1. Set the top cabinet to 6°.
2. Attach the two side arms to the top A6 cabinet. The pins should be installed from the outside of the Mini Frame.
3. Attach the Spreader Bar to the side arms using the two Spreader Bar quick release pins.



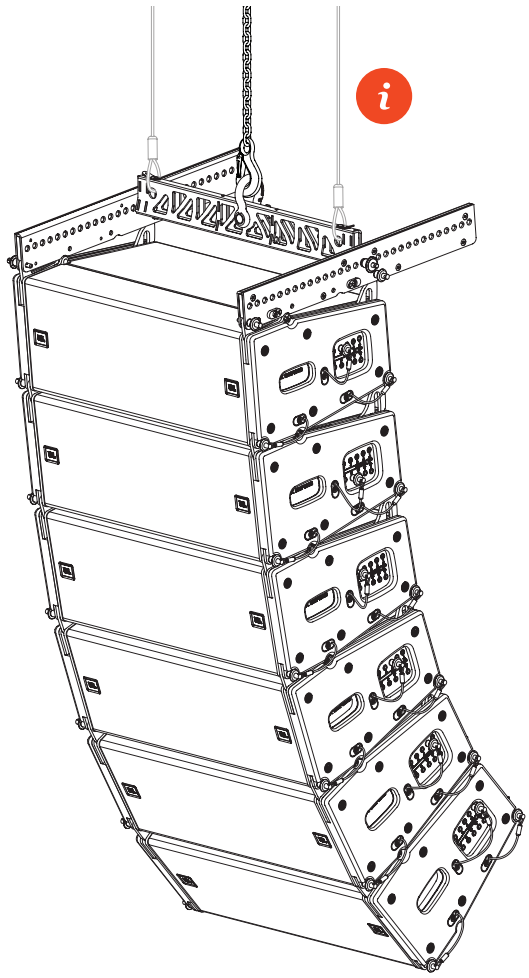


CAUTION: Ensure that the two Spreader Bar pins are fully seated and engaged before suspending an array. Check for correct installation by pulling on them. The QRPs should be fully seated with minimal movement.

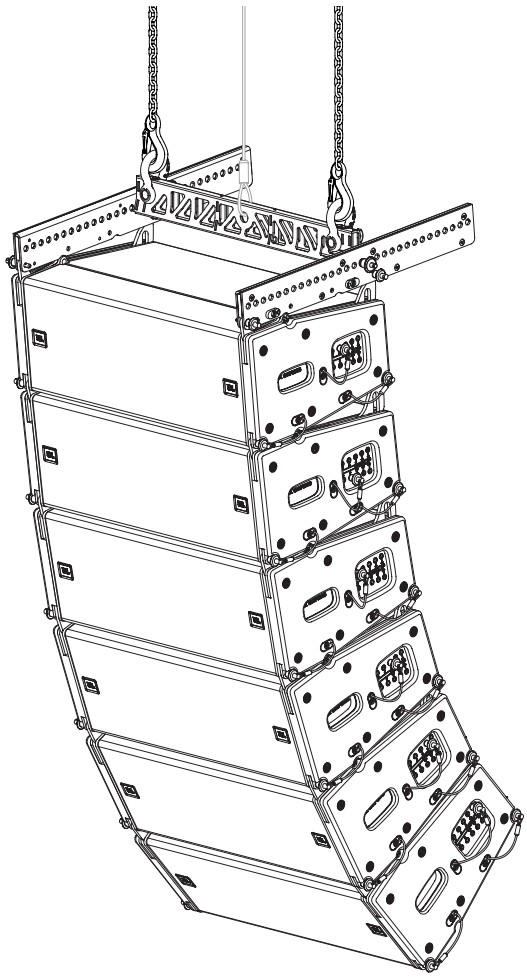
CAUTION: Always make sure that the same hole position is used on both side arms. Failing to use the same position on both sides can result in damaging the Mini Frame.

7.4 MINI FRAME SUSPENSION OPTIONS

The VTX A6 MF Mini Frame can be used in single-point configurations using the center shackle position of the Spreader Bar. Alternatively, the two side shackle positions can be used to facilitate dual-point configurations. When a single point is used, the side shackle positions can be used for safety attachment and vice versa. Additional Spreader Bars can be purchased to implement other safety attachment configurations.



SINGLE-POINT

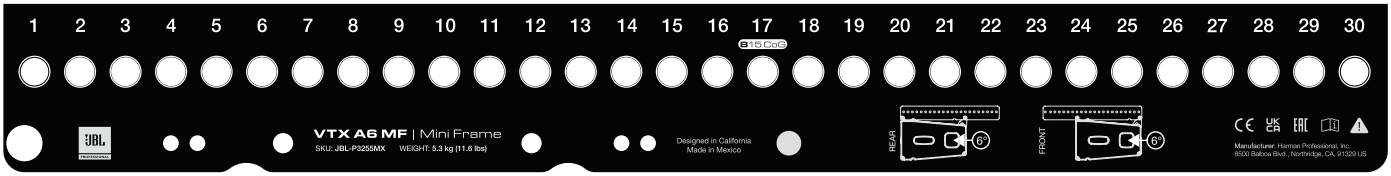


DUAL-POINT
SIDE-BY-SIDE

TIP: Use the open shackle position to facilitate secondary safety attachments for installations or regions requiring such safety measures. It is the responsibility of the installer/user to make sure the array hardware and all other safety hardware are rated for the exact use case and requirements.

7.5 SELECTING SPREADER BAR POSITIONS

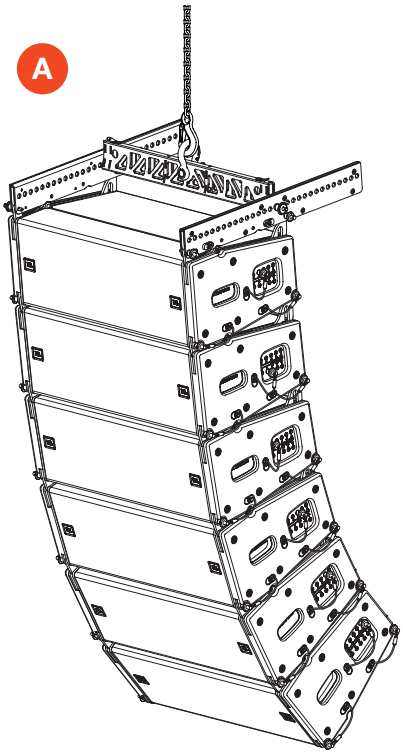
Each of the Mini Frame side arms includes 30 hole positions for attaching the Spreader Bar. The position of the Spreader Bar determines the overall site angle of the array. The further back the Spreader Bar is attached, the more down angle is generated and vice versa. The exact position of the Spreader Bar for a given angle is determined using Line Array Calculator 3 software. Position 17 corresponds to the center-of-gravity of the B15, and is marked as such on the Mini Frame side arms. It can be used to suspend B15s flat (aimed parallel to the ground).

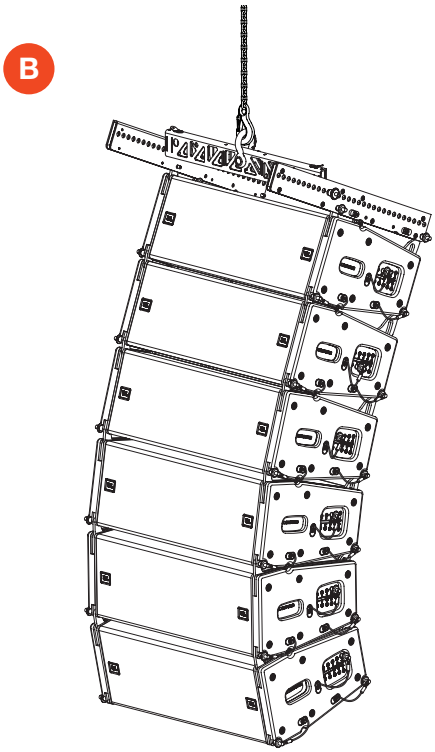


The Mini Frame can be attached to an array in either the standard (rear) or reverse (front) positions depending on the required overall array angle. The standard orientation is more suitable for large down angles, while the reverse orientation is more appropriate when large up angles are required. In both configurations, the top A6 cabinet should be set to the 6° position.

EXAMPLES:

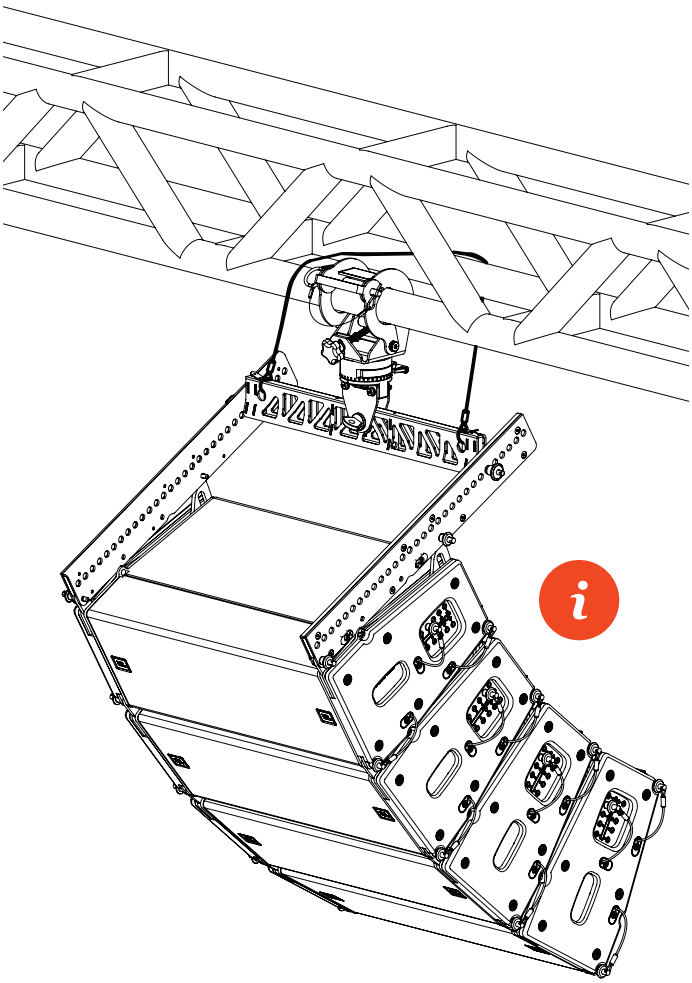
- **A** Normal frame orientation with Spreader Bar set to position 15, creating downtilt.
- **B** Reversed frame orientation with Spreader Bar set to position 18, creating uptilt.

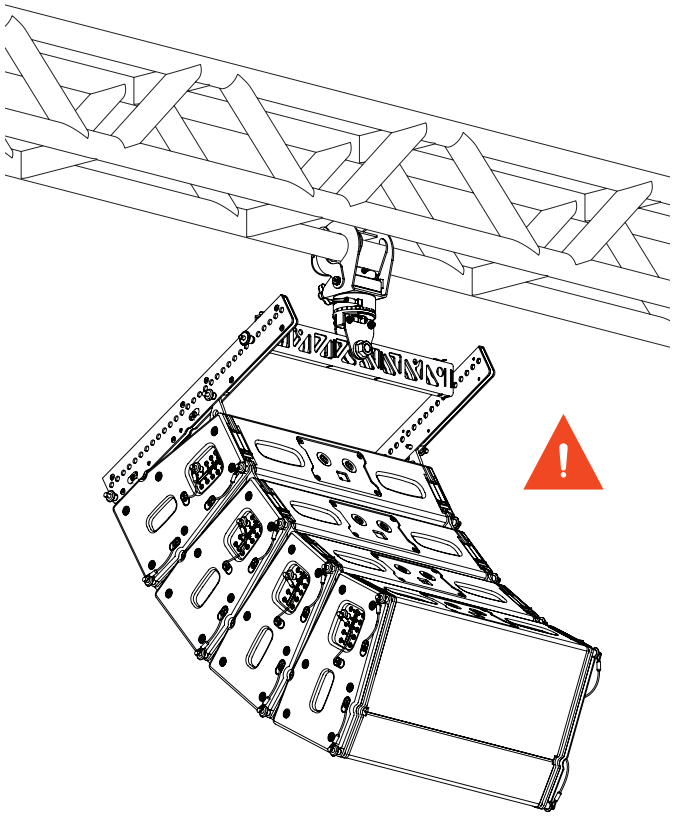




7.6 MINI FRAME AND RC500

The Mini Frame can be used in combination with the VTX RC500 Rotating Clamp. The VTX RC500 is a universal truss/pipe adapter designed for vertically suspending speaker arrays from standard truss structures or pipes. The RC500 supports arrays of up to 500 kg (1,100 lbs) and is compatible with array frames that support ½-inch shackles, such as the VTX A6 MF. The RC500 is attached to the center shackle position of the Mini Frame and allows for 360 degree rotation. For more information on the RC500, refer to the **RC500 User Manual.**





CAUTION: Array weight must always be within the 500 kg capacity of the RC500. For more information on mechanical limits and use cases refer to the RC500 User Manual.

CAUTION: It is the responsibility of the installer/user to ensure the truss/pipe hardware and all other equipment are rated for the exact use case and requirements.

TIP: Use the open shackle position to facilitate secondary safety attachments for installations or regions requiring such safety measures. It is the responsibility of the installer/user to make sure the array hardware and all other safety hardware are rated for the exact use case and requirements.

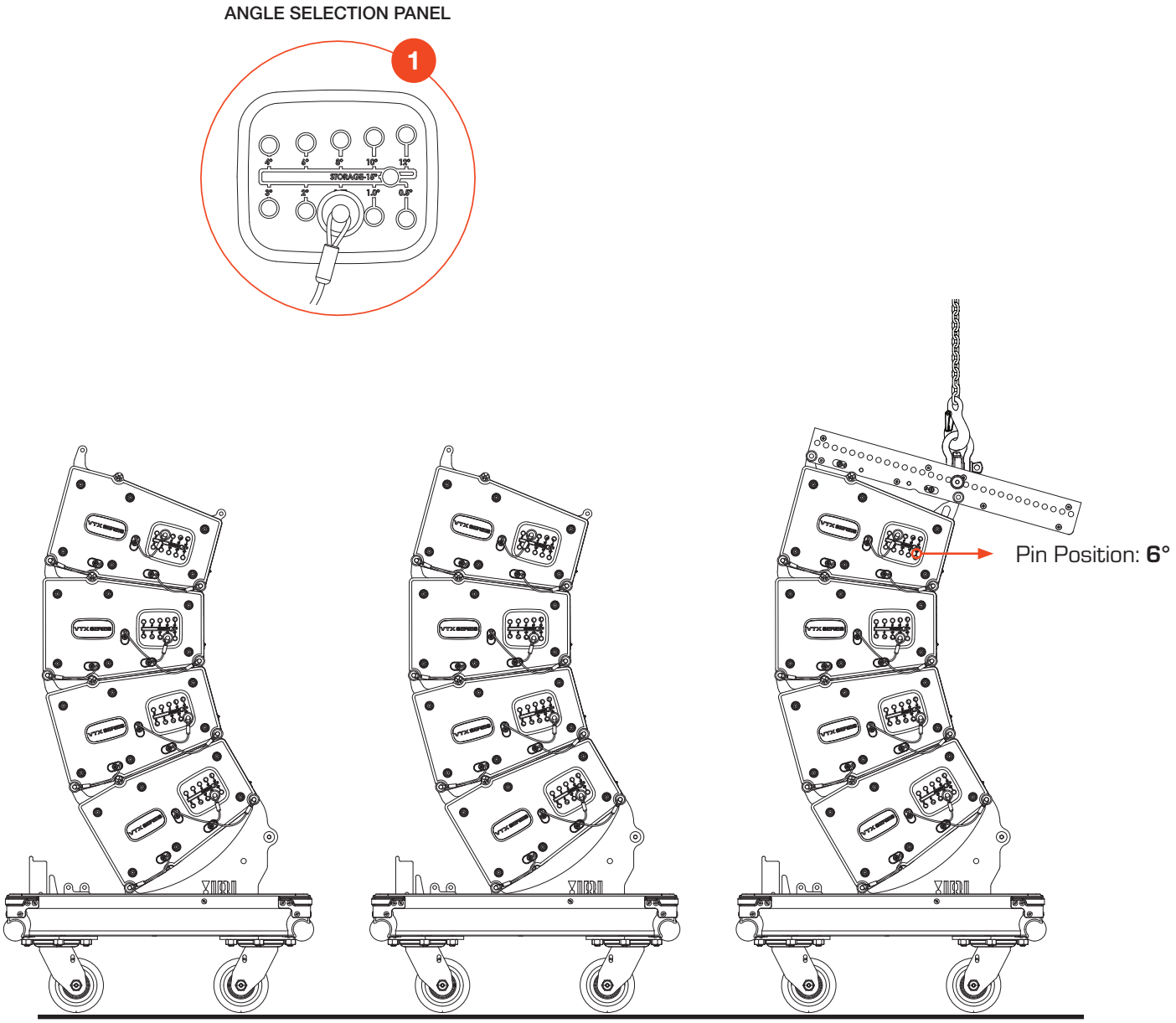
8 - DEPLOYING STANDALONE A6 ARRAYS

Follow the steps below to suspend an A6 array. Instructions on suspending mixed A6/B15 arrays can be found in chapter **10 - Mixed Arrays With A6 and B15.**

8.1 PRESELECT THE ANGLES

STEPS:

1. Using the pin located on the Angle Selection Panels, select the desired cabinet-to-cabinet splay angles.

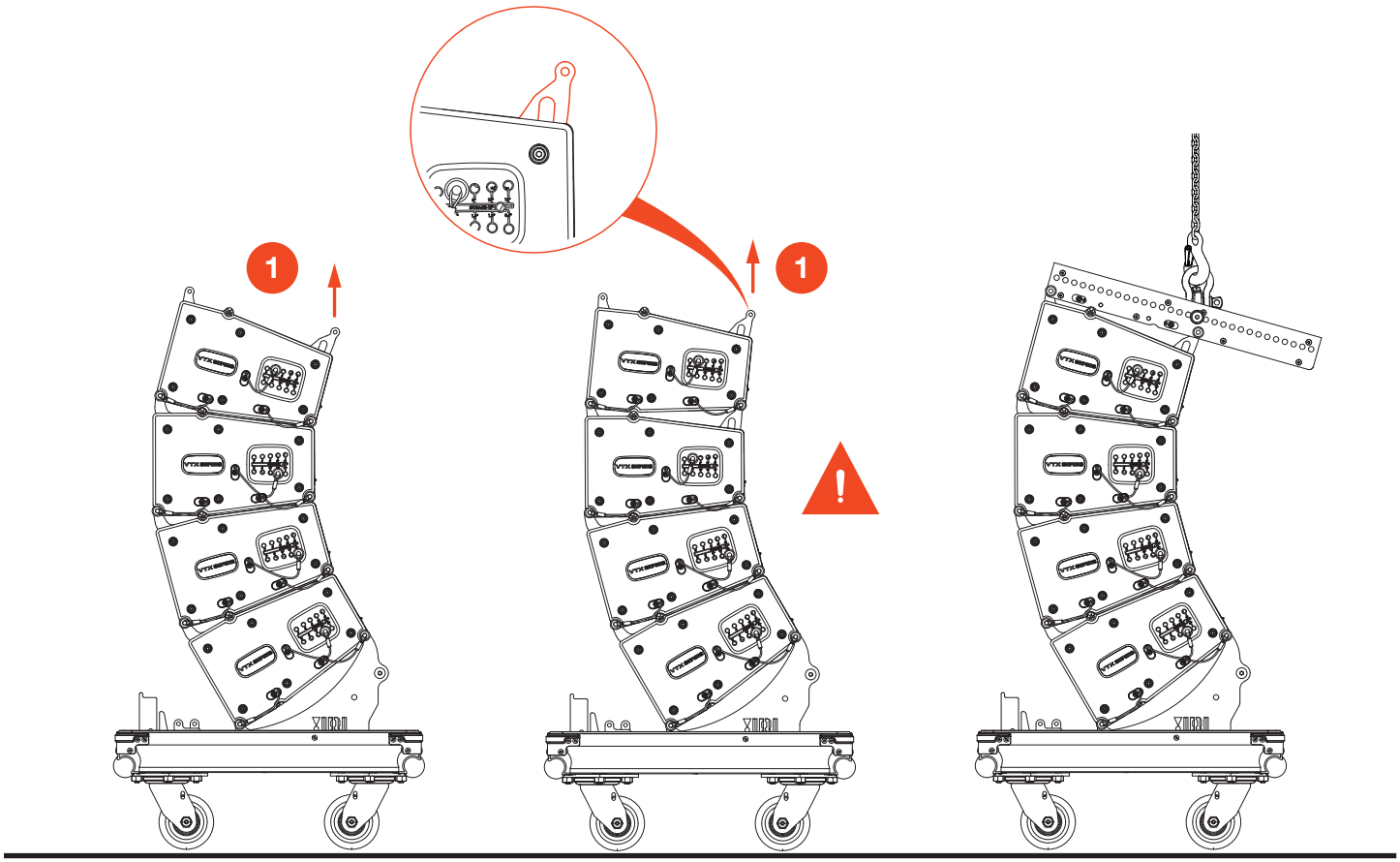


8.2 PRE-EXTENDING THE RIGGING

This step is not required, but provides a convenient shortcut. After selecting all the angles, the rigging of the top A6 cabinet can be extended and locked while still on the ground. This can make it much easier to connect flown cabinets to cabinets on the ground, since the rear rigging connection points will generally sit at a much higher elevation.

STEPS:

1. Pull up the top rigging arms until they fully engage.

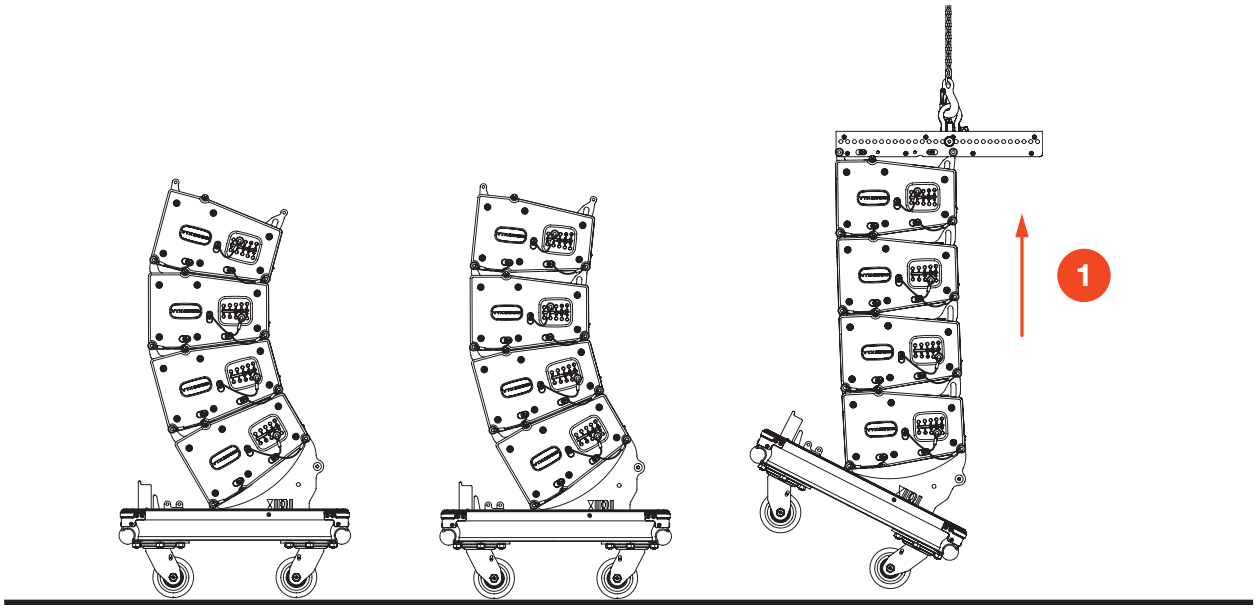


CAUTION: To avoid a stack of cabinets becoming unstable and tipping over, do not pre-extend any more than the top two cabinets.

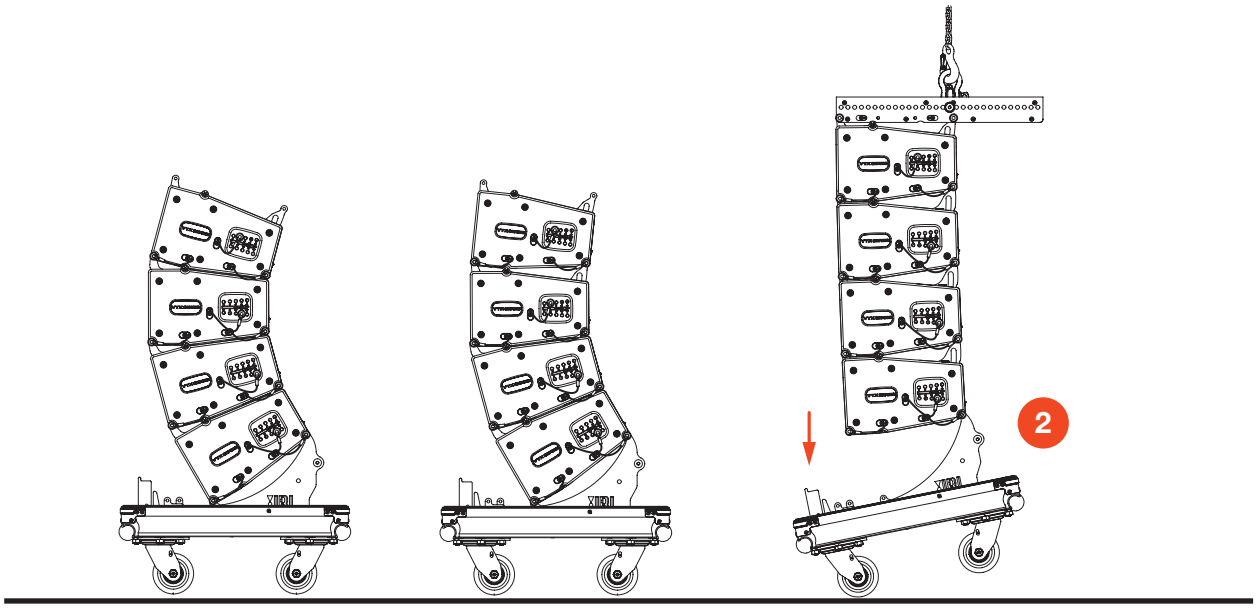
8.3 SUSPEND THE FIRST STACK

STEPS:

1. Check that all red Locking Levers are in the locked position, then engage the hoist to lift the array off the ground. As the hoist lifts, each cabinet will expand to the selected angle. As each cabinet reaches the correct angle, it stops expanding.



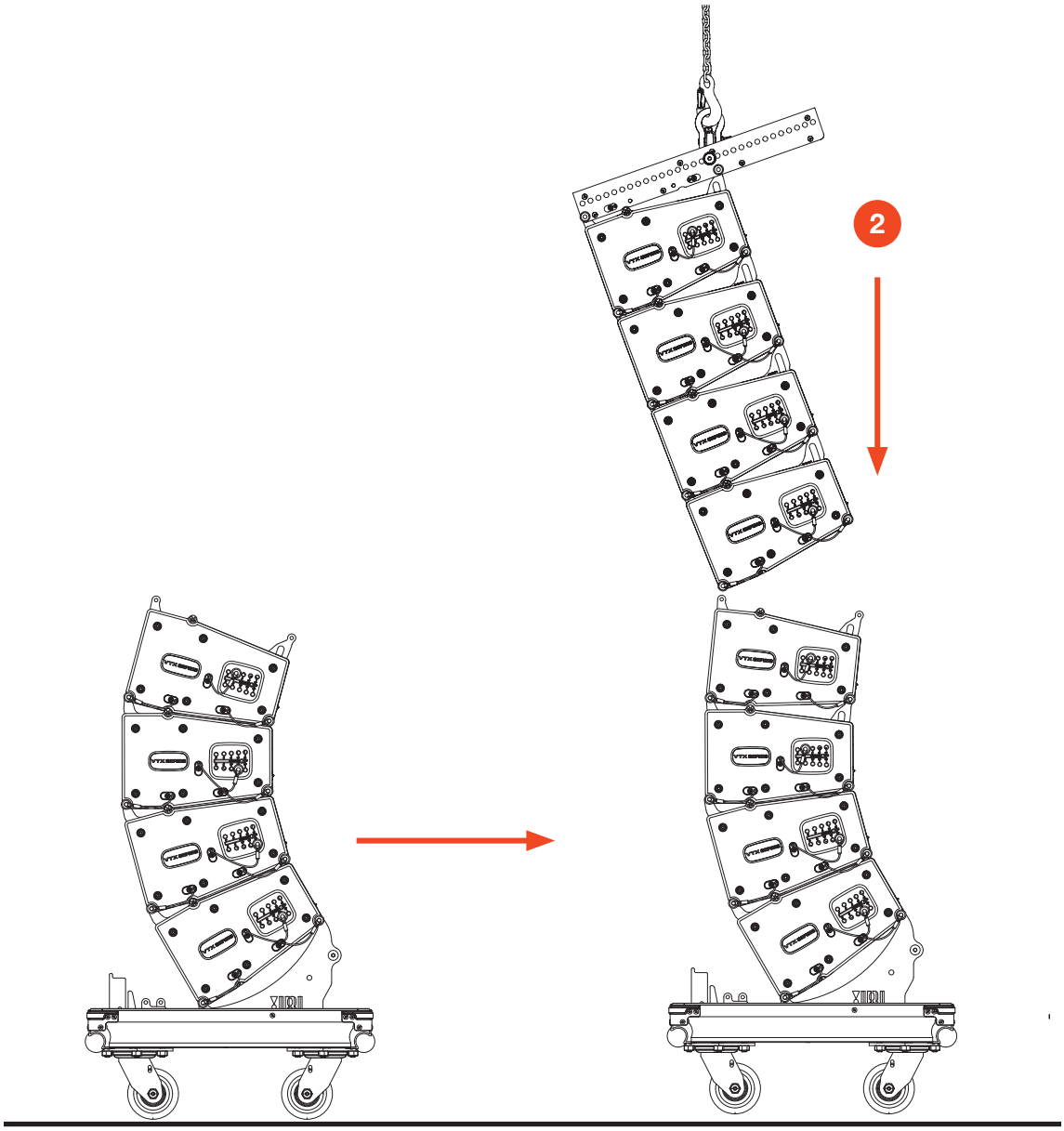
2. When all cabinet angles are set and the array is suspended a short distance off the ground, disconnect the Road Case Bottom by removing the two rear quick release pins, followed by the front pins.



8.4 ATTACH THE NEXT STACK

STEPS:

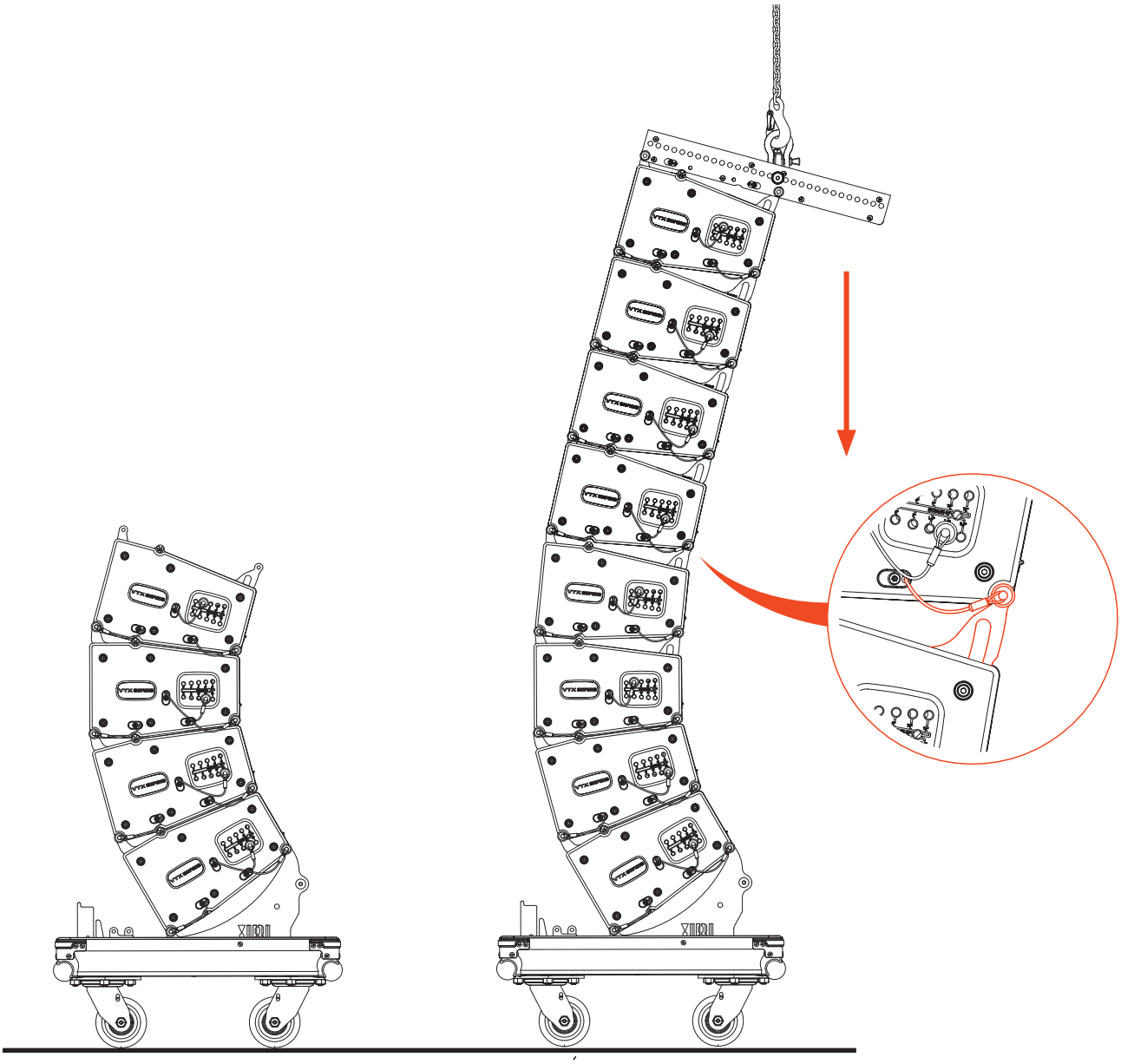
1. Raise the suspended cluster of VTX A6 cabinets and align the next cart of cabinets below the suspended cluster.
2. Once the clusters are aligned, carefully lower the suspended cluster until the front attachment points are nearly touching. Check that the attachment points are aligned, then lower the suspended cluster until the front attachment points join together. Insert the two front quick release pins.



CAUTION: Always ensure that both sides are pinned to the same angle. The top most cabinet should be pinned to 6° for proper attachment of the Mini Frame.

STEPS:

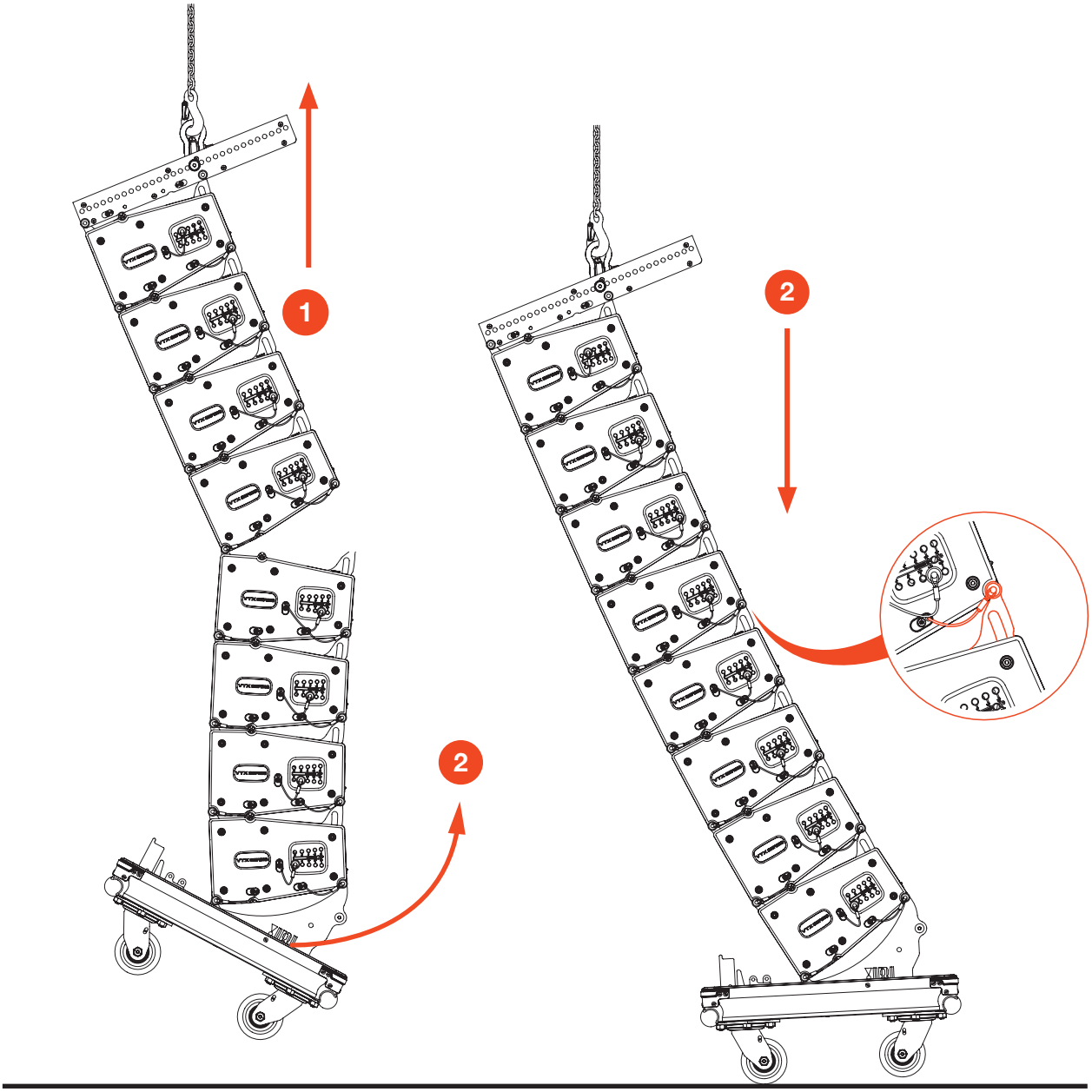
1. After the two front QRPs have been secured, lower the flown array until the two rear connection points join together. Once touching, insert the two rear QRPs to secure the clusters together. If the angle of the flown cluster is too steep (too much down-tilt) and the rear connection points are too far apart, follow the steps shown below to safely connect the clusters.



In some cases, the angle of the flown array may be too steep to fully connect to the cluster on the ground. This can happen when assembling large arrays or when the frame pick-point is too far back as shown in the example below. In this situation, a two-step process is used to engage all four connection points for the array.

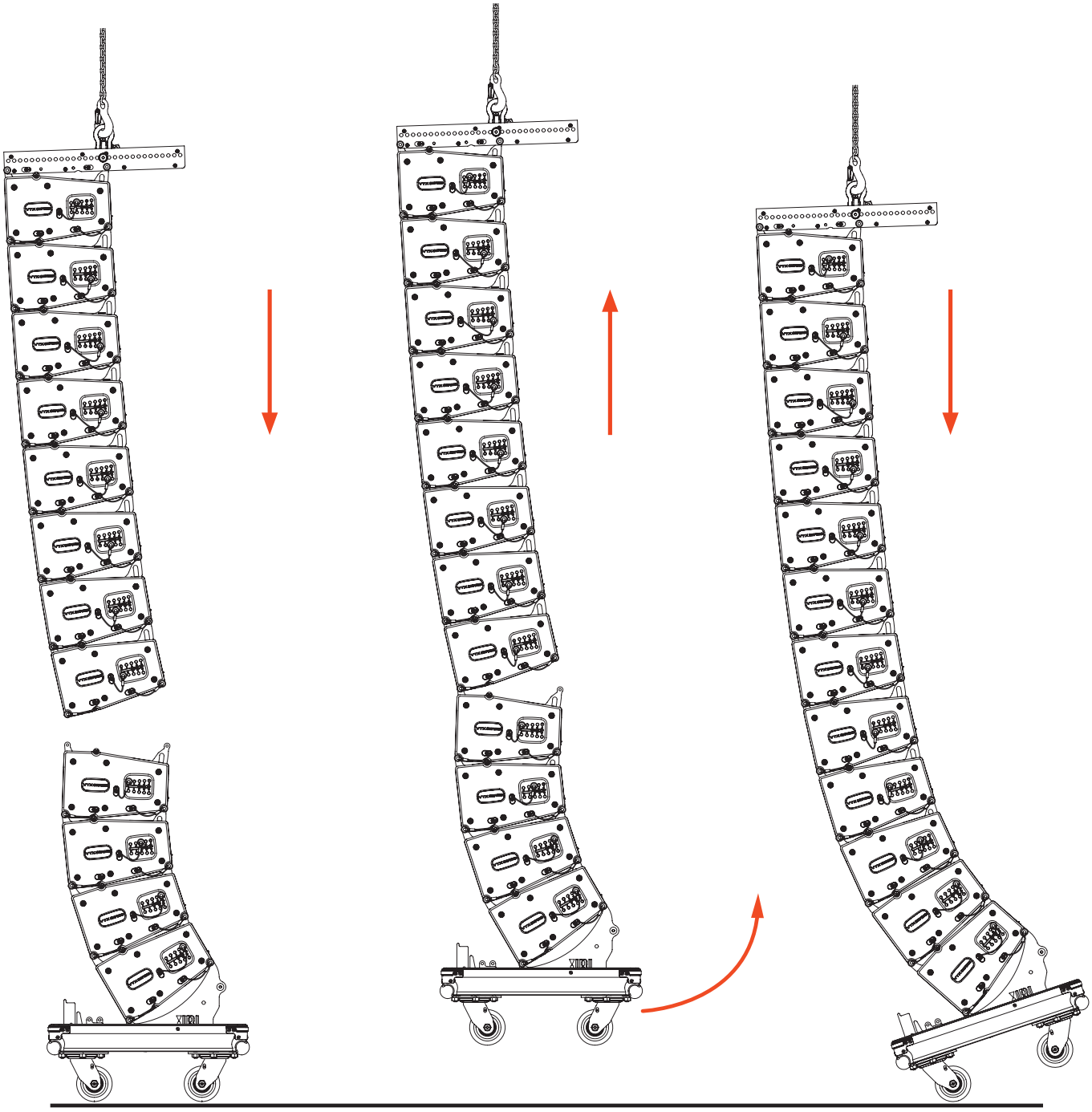
STEPS:

1. With the front QRPs set, use the electric hoist to raise the array. Be aware that the second cluster may swing forward slightly as it lifts off the ground.
2. Once the array is off the ground, grab the lower cluster by the handlebar on the Case Bottom and gently pull back towards the rear of the array. While doing this, lower the array so the front wheels of the Case touch the ground. Lower the array until the rear attachment points engage, then insert the two rear QRPs.
3. Once all four QRPs have been secured, lift the array off the ground and remove the Case Bottom.



8.5 REPEAT UNTIL COMPLETED

Repeat the previous steps until the entire array has been assembled.

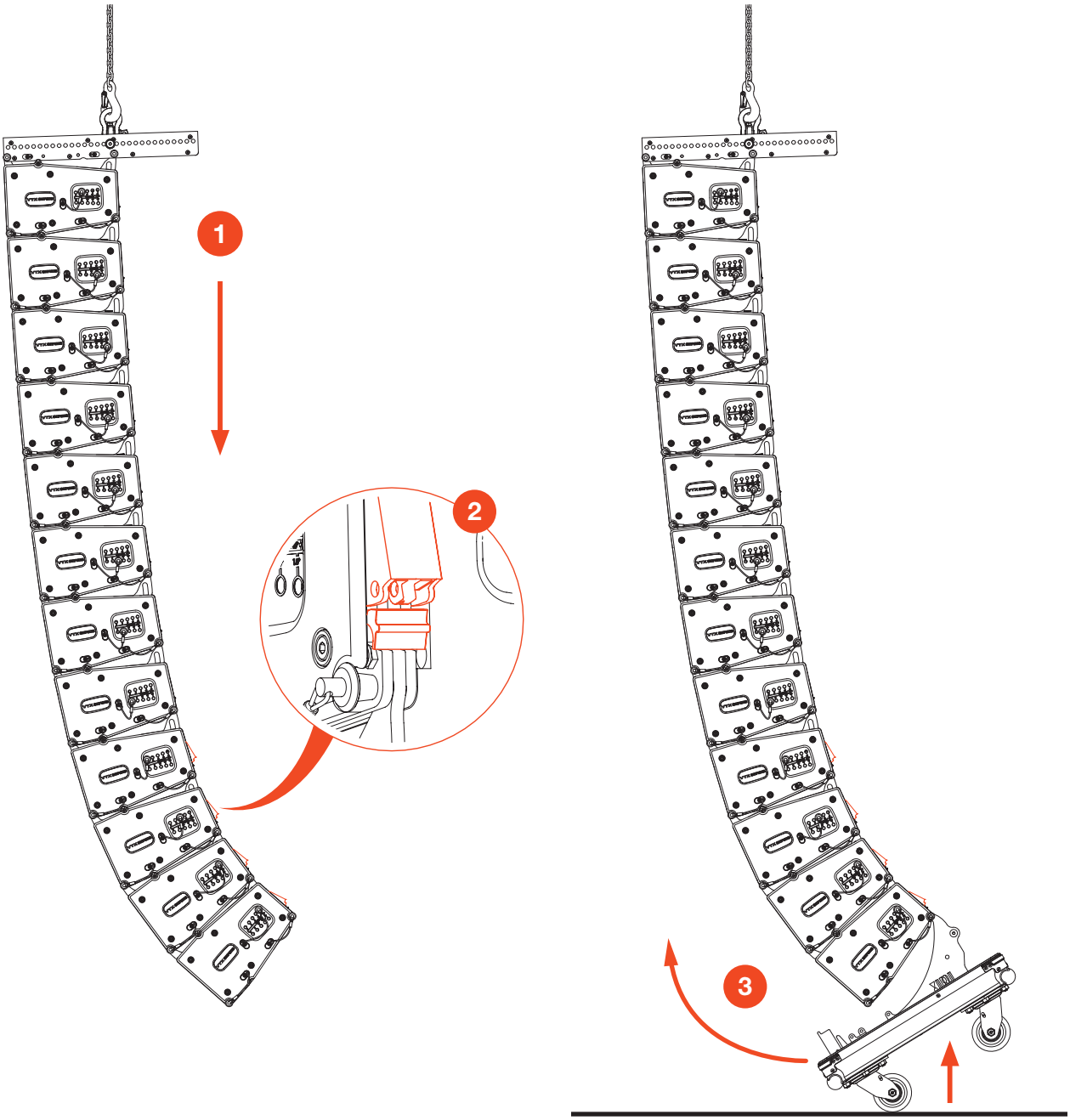


9 - DISASSEMBLING ARRAYS

9.1 OPEN THE ANGLE LOCKS AND ATTACH THE CASE BOTTOM

STEPS:

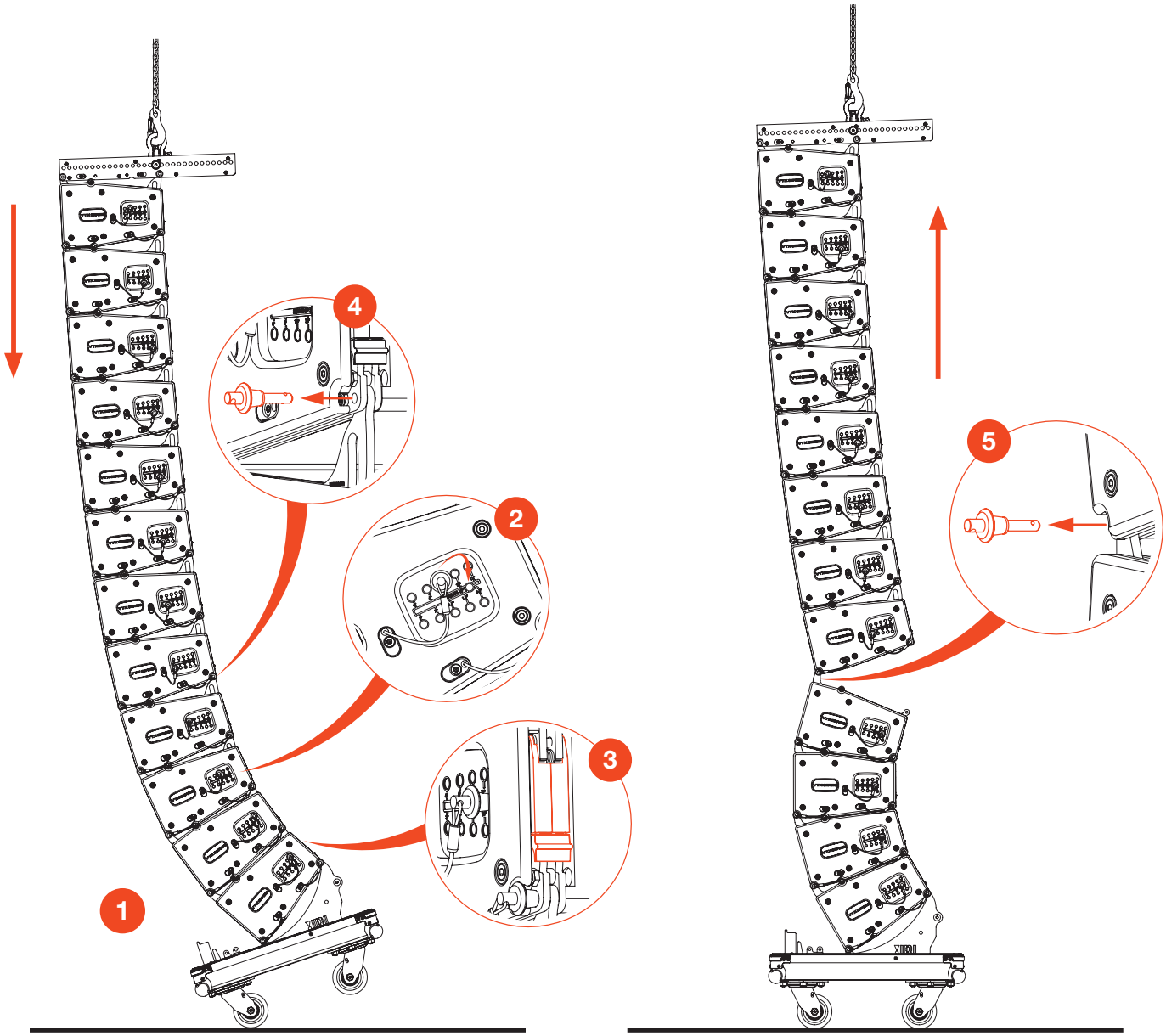
1. Safely lower the entire array to a workable height.
2. Press the Release Buttons on all four lower cabinets to unlock the rigging mechanisms. This enables the bottom four cabinets to collapse back to 15 degree angles once the array is lowered to the ground.
3. Attach the Road Case Bottom to the lowest cabinet. Connect the two points at either the front or rear, then lift the other side of the Road Case Bottom and attach the other two points.



9.2 CLOSE THE ANGLE LOCKS AND MOVE PINS TO STORAGE

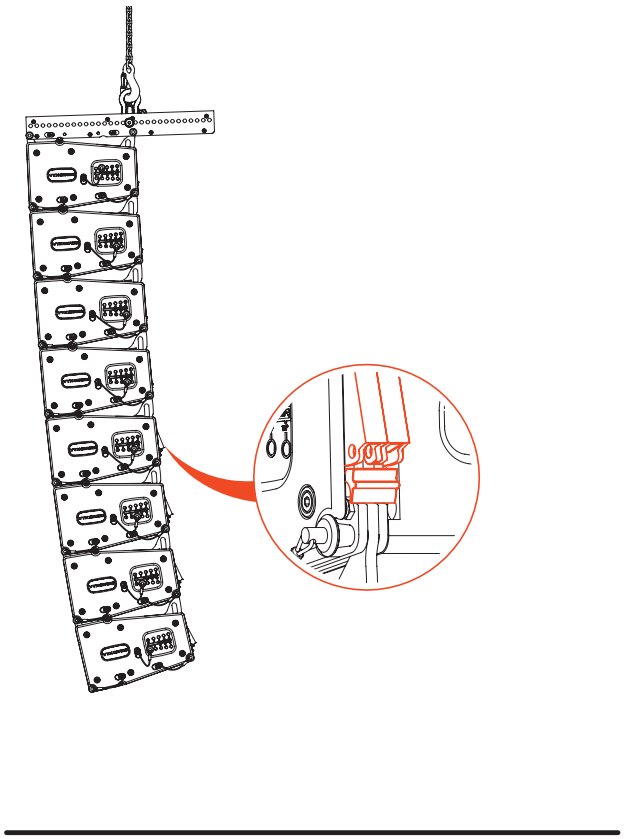
STEPS:

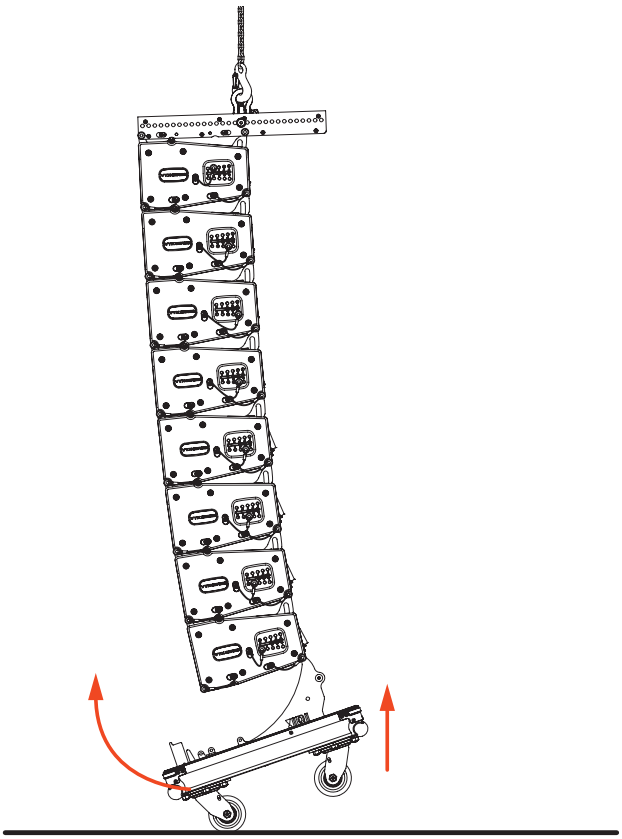
1. With the Case Bottom installed, lower the array until the front wheels touch the ground. The array should start to roll backwards slightly and, as the array is lowered, the cabinet-to-cabinet angles of the bottom four boxes will close to 15 degrees.
2. Once the lowest four boxes are entirely collapsed and the gap between the fourth and fifth cabinets from the bottom is closed, set the angle selection QRPs on the bottom four A6 cabinets to the STORAGE position (15°).
3. Close all eight RED Locking latches.
4. Remove the rear QRPs joining the fourth and fifth lowest cabinets. These QRPs should move easily, as the weight of the array is being held by the front wheels of the Case Bottom resting on the ground.
5. Raise the array and allow the four A6 cabinets to roll forward until the cart is resting safely on all four wheels. When the A6 cabinets on the Road Case Bottom reach this position, stop lifting the array. Remove the front QRPs and separate the suspended array from the stack on the Road Case.

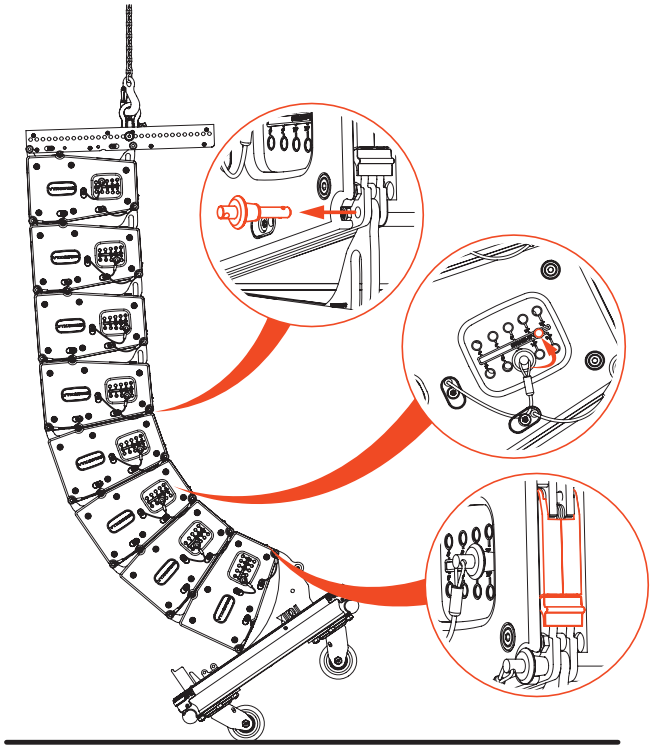


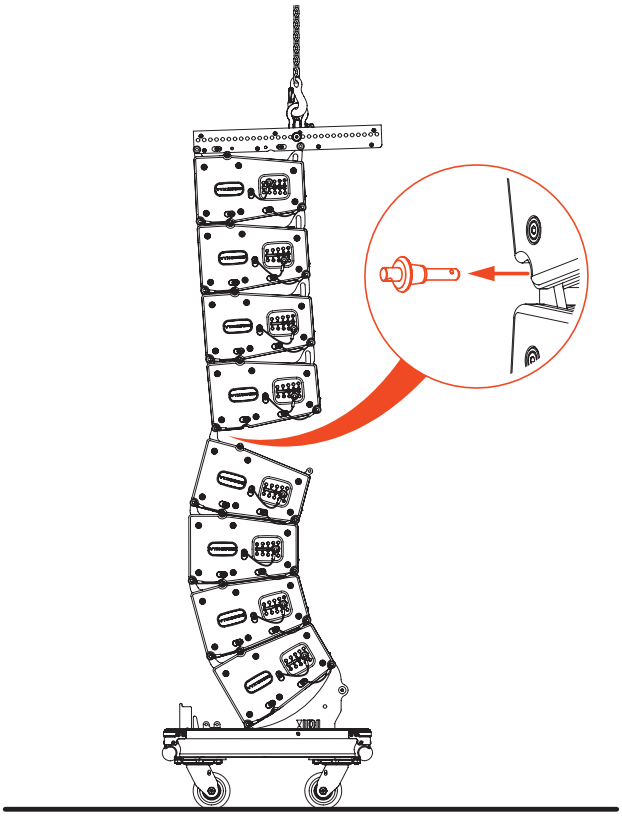
9.3 REPEAT STEPS TO DISCONNECT THE NEXT FOUR CABINETS

Repeat the previous steps to disconnect and store the next four cabinets of the array.

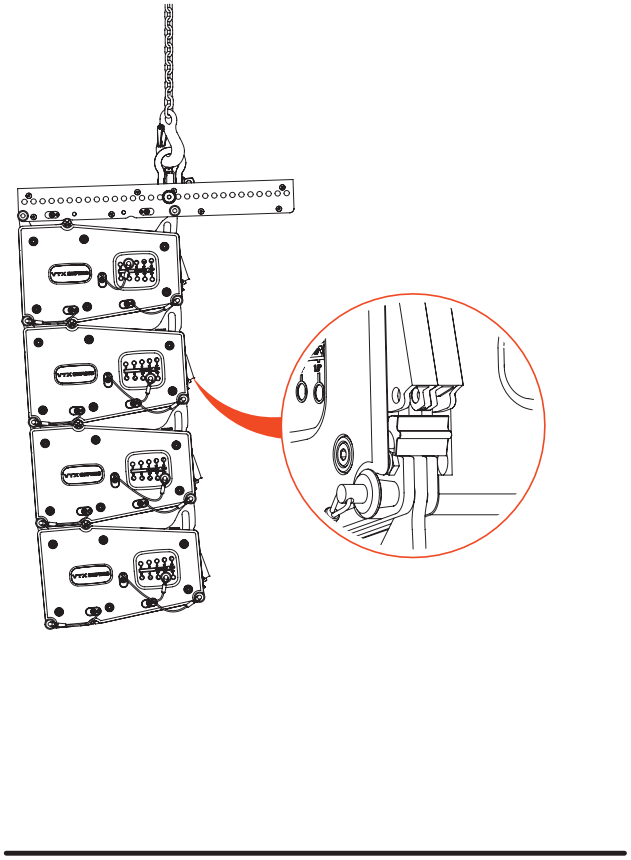


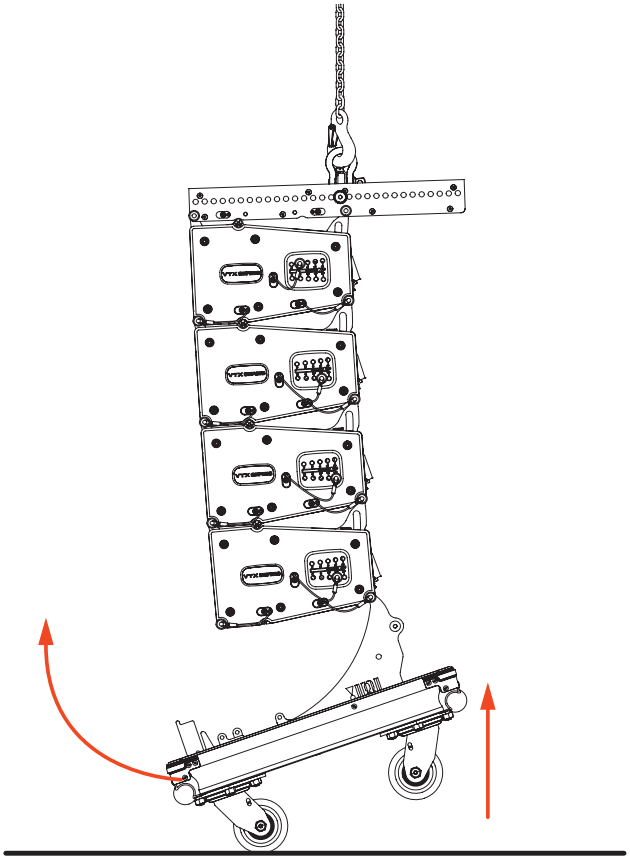


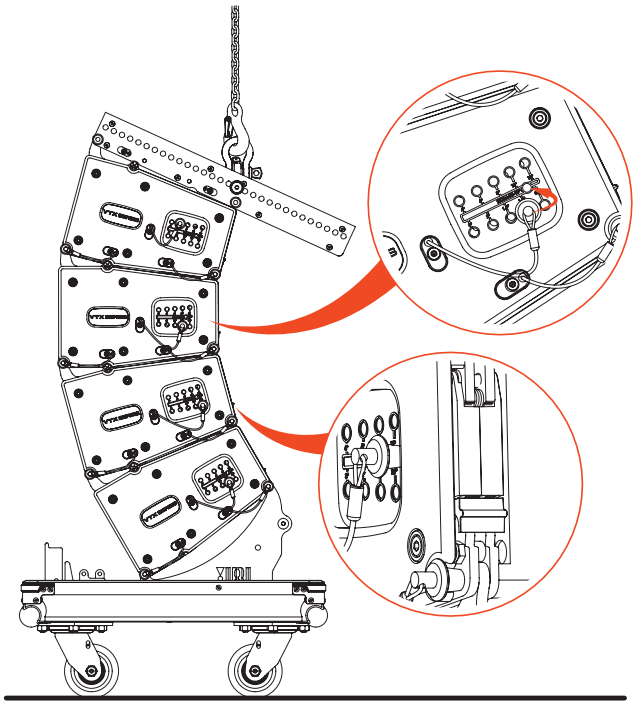


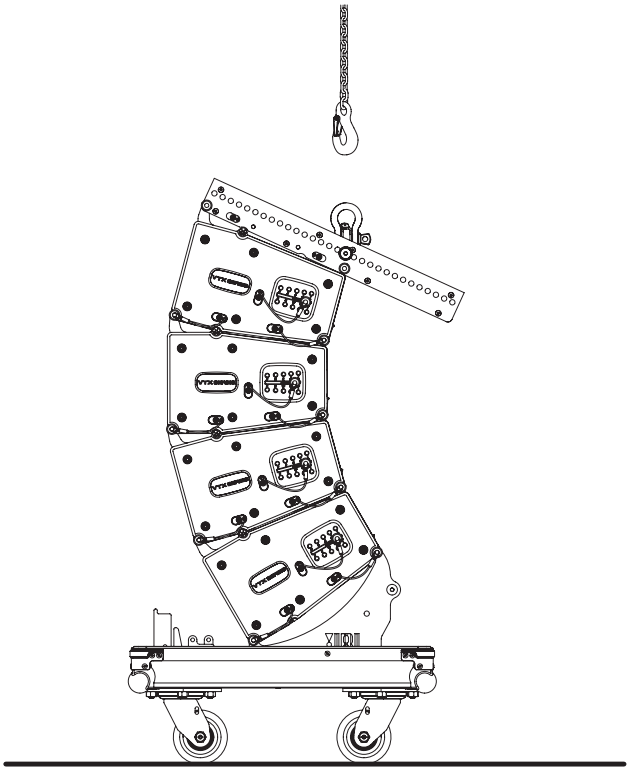


9.4 REPEAT STEPS TO DISASSEMBLE THE ARRAY









10 - MIXED ARRAYS WITH A6 AND B15

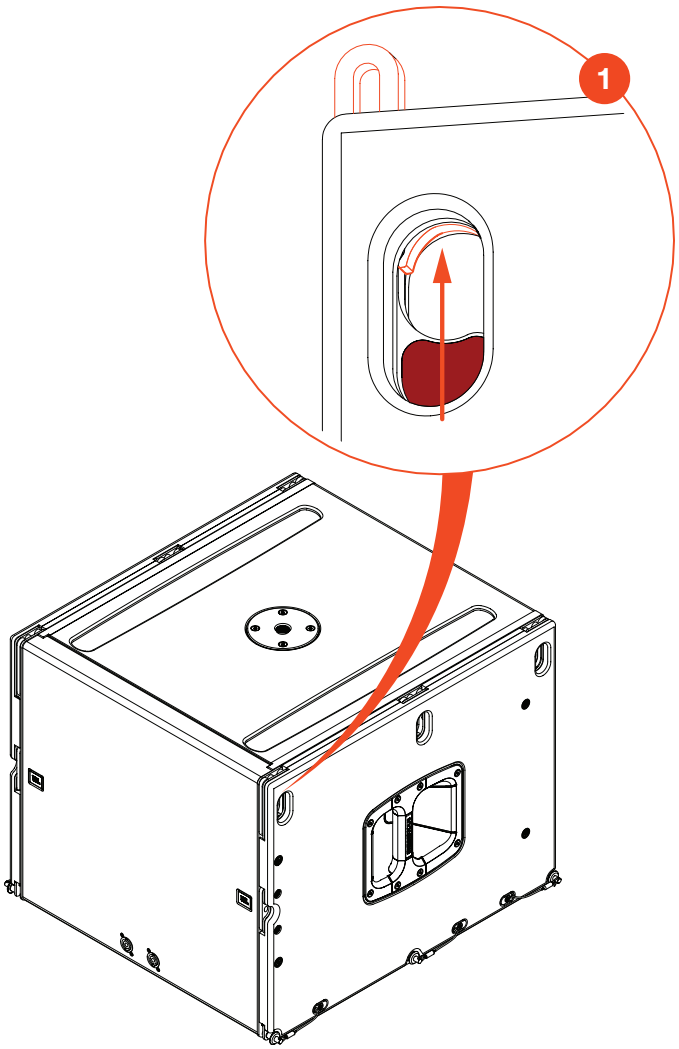
VTX A6 cabinets are mechanically and acoustically compatible with VTX B15 single 15-inch subwoofers. All A6 suspension accessories are compatible with the VTX B15, enabling mixed arrays with VTX A6s suspended under B15 subwoofers to be created. This section of the manual covers creating mixed arrays. For more detailed information on the B15 rigging system and how to create standalone B15 suspended arrays, refer to the **VTX B15 Rigging Manual**.

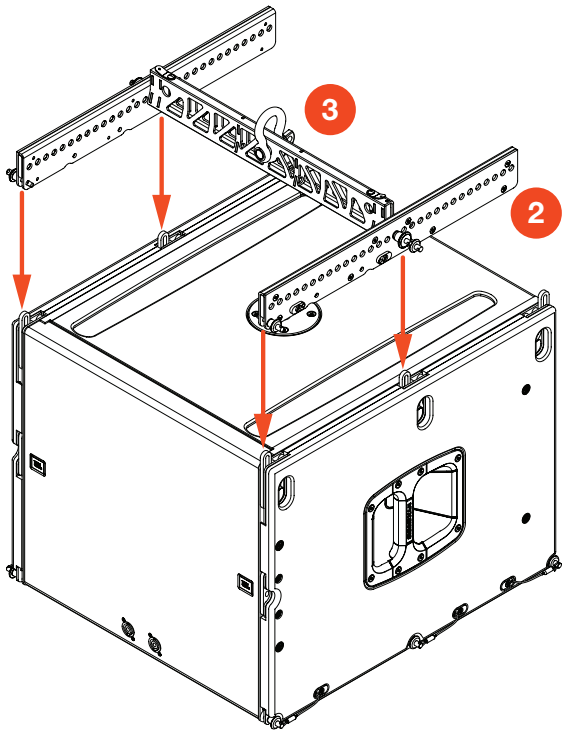
10.1 ATTACHING THE MINI FRAME TO THE B15

The first step in this process is attaching the Mini Frame to the top B15 cabinet. The array design used for this example consists of two forward-facing B15 subwoofers with eight A6 cabinets under them.

STEPS:

1. Extend the four front B15 rigging bars by releasing the recessed triggers located just below the rigging bars.
2. Attach the two side arms to the B15 using the quick release pins attached to the side arms.
3. Pin the Spreader Bar to the desired pick-point position using the two pins attached to the Spreader Bar. Consult LAC-3 to determine proper hole position.

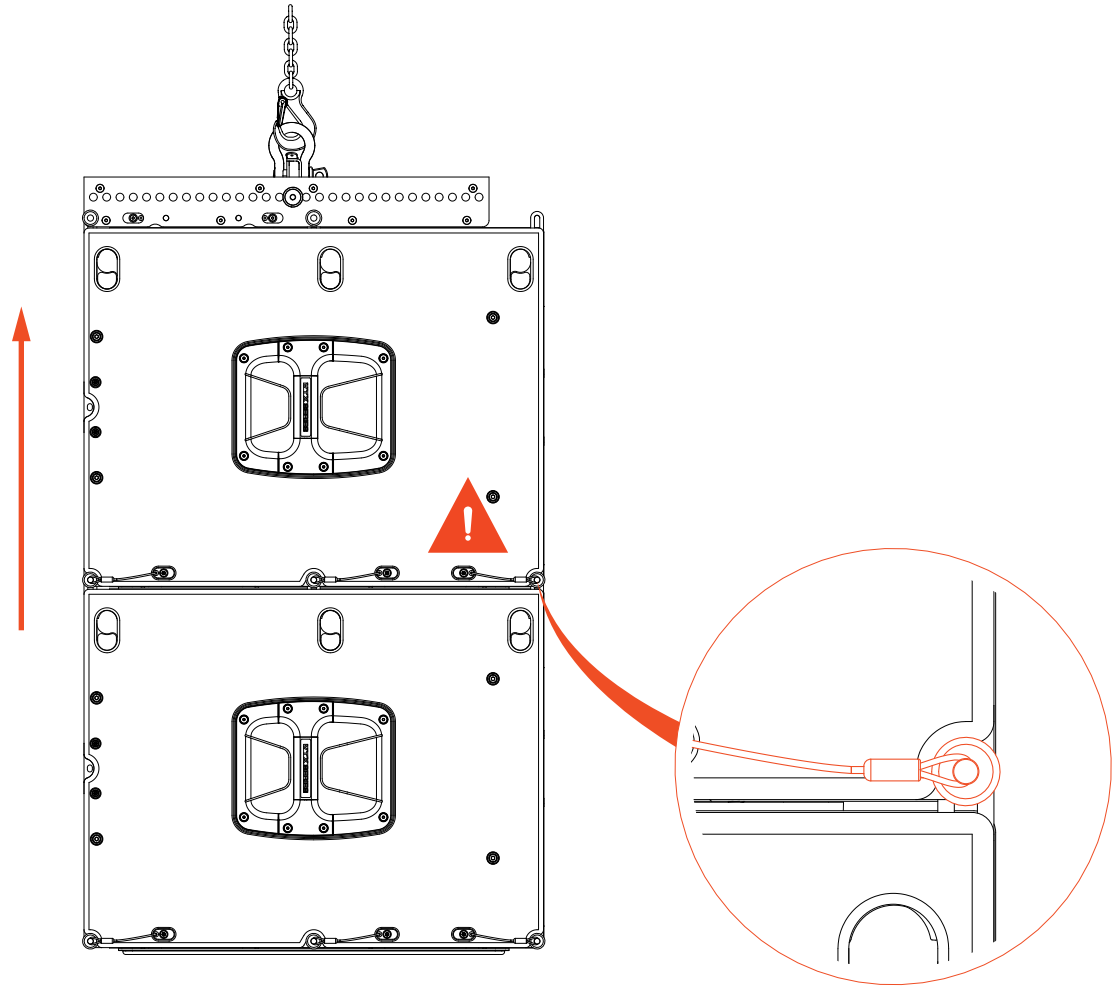




With the frame properly connected, lift the B15 off the ground.

STEPS:

1. Use the electric hoists to raise the B15 off the ground.
2. Continue to add B15s until the desired quantity are suspended. For more information on this process refer to the **VTX B15 Rigging Manual**
3. Remove the front and mid QRPs from the lowest B15 in the array in preparation for attaching the first stack of A6 cabinets.



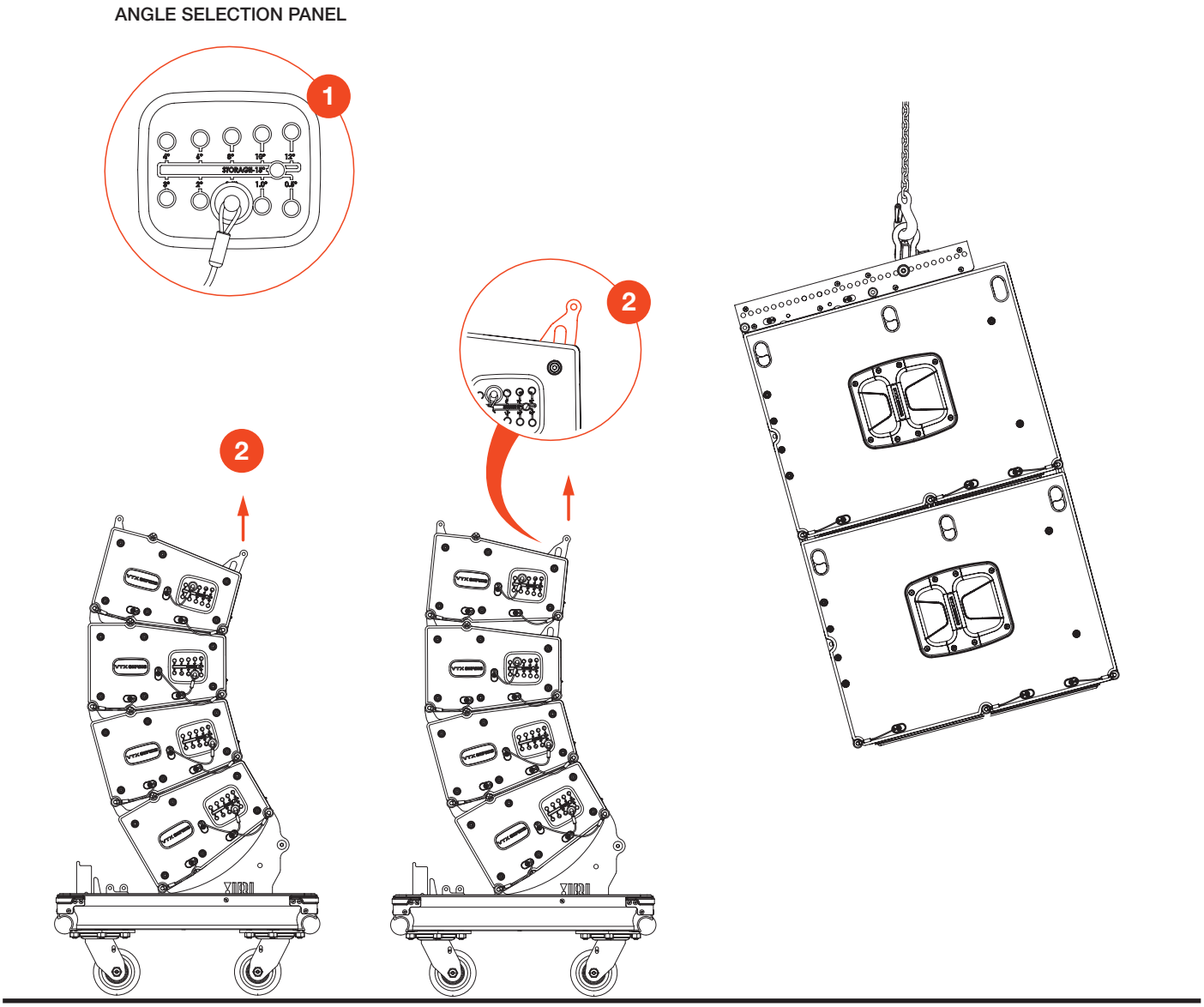
CAUTION: All six pins and rigging arms should always be used when connecting one B15 subwoofer to another. Under no circumstances should any pin be left unused. A6 cabinets can only be attached to the B15 rigging points corresponding to those connected to the array frame. Normally, these are the four forwardmost connection points.

10.2 ATTACHING A6 TO B15

Once the B15s have been safely flown, the first cluster of A6 cabinets can be added to the array. Note that the first VTX A6 connected to a B15 subwoofer is always pinned to the **6° position**. This allows the top A6 cabinet to sit parallel with the Array Frame.

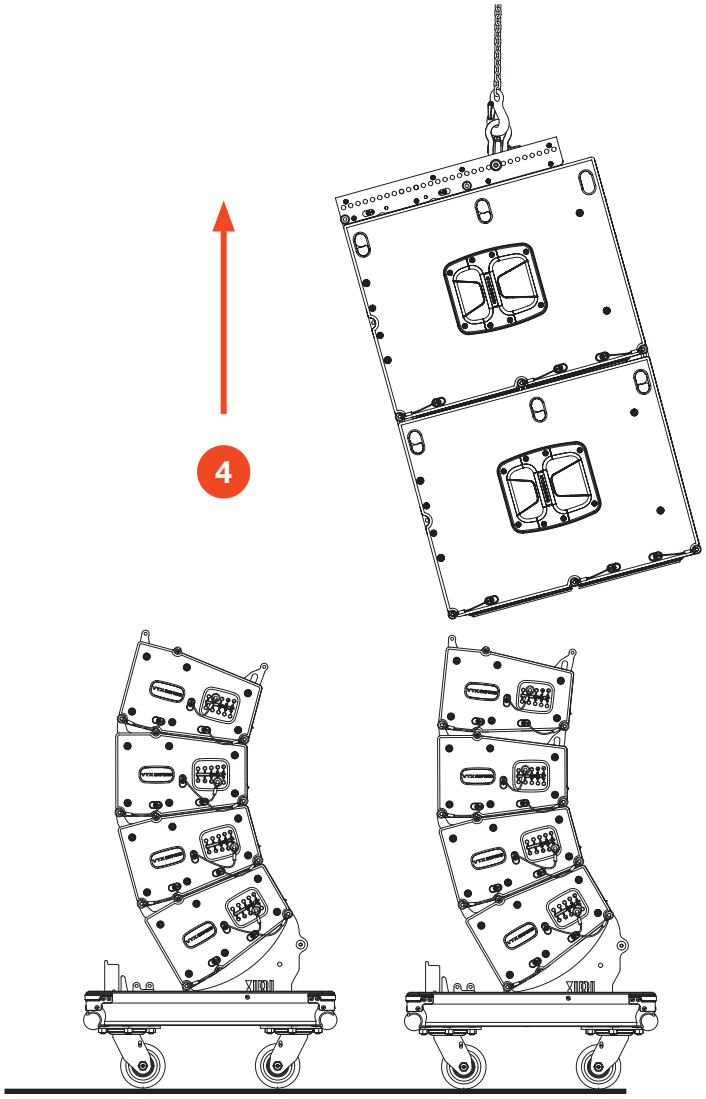
STEPS:

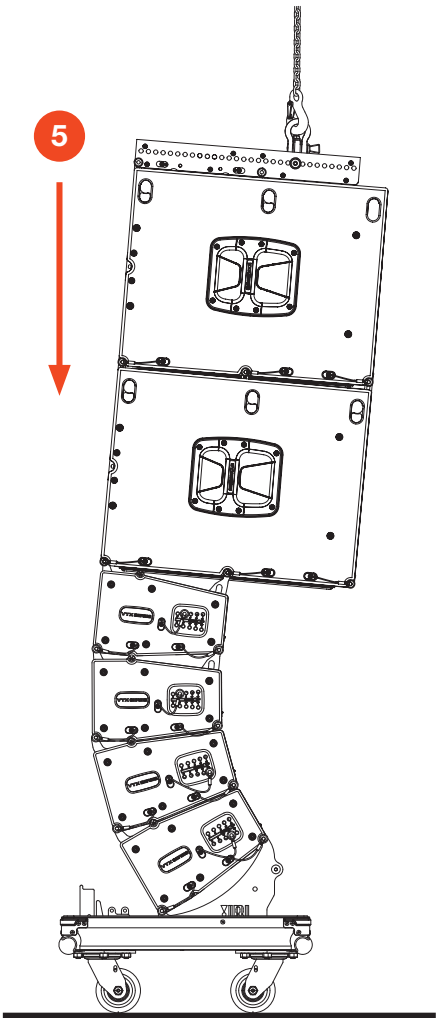
1. Preset the angles of the A6 cabinets. The top A6 in the mixed array should be set to 6°.
2. Pull up the top rigging arms on the top cabinets until they fully engage.



STEPS (CONTINUED):

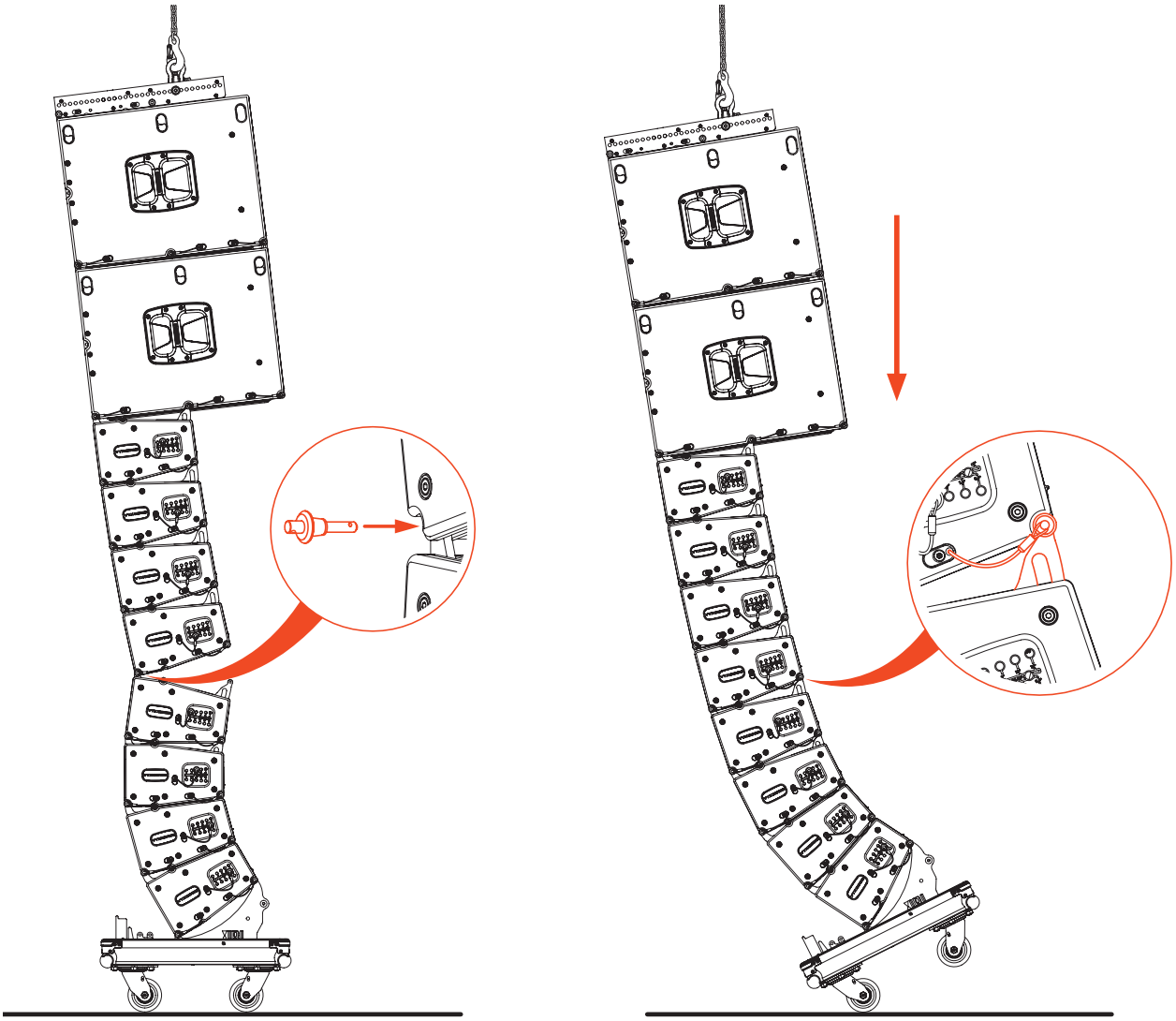
4. Raise the suspended cluster of VTX B15 cabinets and align the A6 cabinets below the suspended cluster.
5. Once the clusters are aligned, carefully lower the suspended cluster until the front or rear attachment points are nearly touching. Check that the attachment points are aligned, then lower the suspended cluster until the front or rear attachment points join.
6. Lower the array and insert the quick release pins. Add additional A6 clusters until the array is fully built.





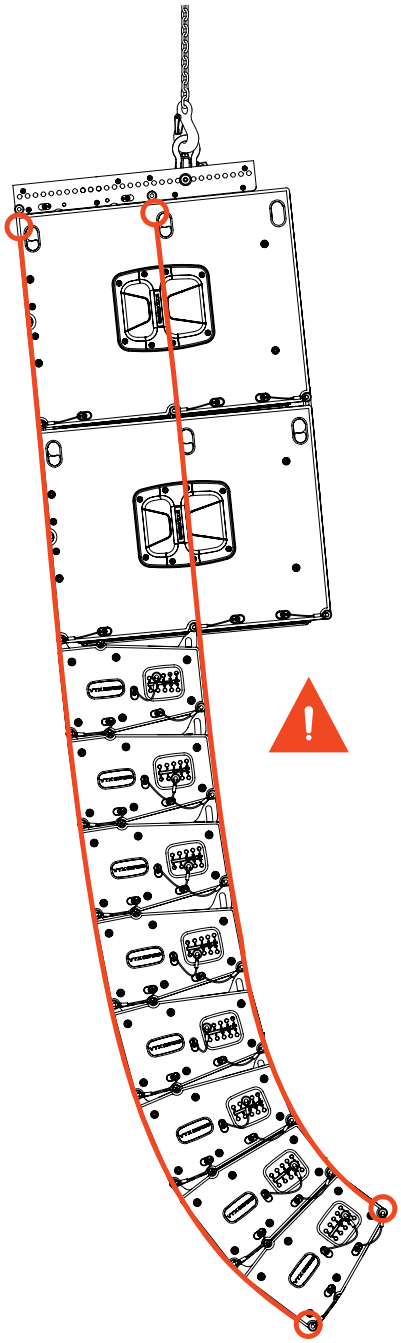
STEPS (TIGHTLY WRAPPED BOTTOM SECTIONS):

1. Raise the suspended cluster of A6 and B15 cabinets, then align the cart of A6s on the ground underneath the suspended cluster.
2. Carefully lower the suspended cluster until the front attachment points are nearly touching. Check that the attachment points are aligned, then lower the suspended cluster until the front attachment points join. Insert the two front pins.
3. Use the electric hoist to raise the array. Be aware that the lower cluster may swing forward slightly as it lifts off the ground.
4. Once the array is off the ground, grab the lower cluster by the handle at the rear of the Road Case and gently pull back towards the rear of the array. While doing this, lower the array so that the front wheels of the Road Case touch the ground. Continue lowering the array until the rear attachment points engage. Insert the two rear QRPs.
5. With all four QRPs secured, lift the array off the ground and remove the Road Case Bottom.



10.3 DE-RIGGING THE ARRAY

The steps to de-rig a mixed array are the same as for a standalone A6 array. Follow the steps in Chapter 9 – Disassembling Arrays to safely de-rig the array.

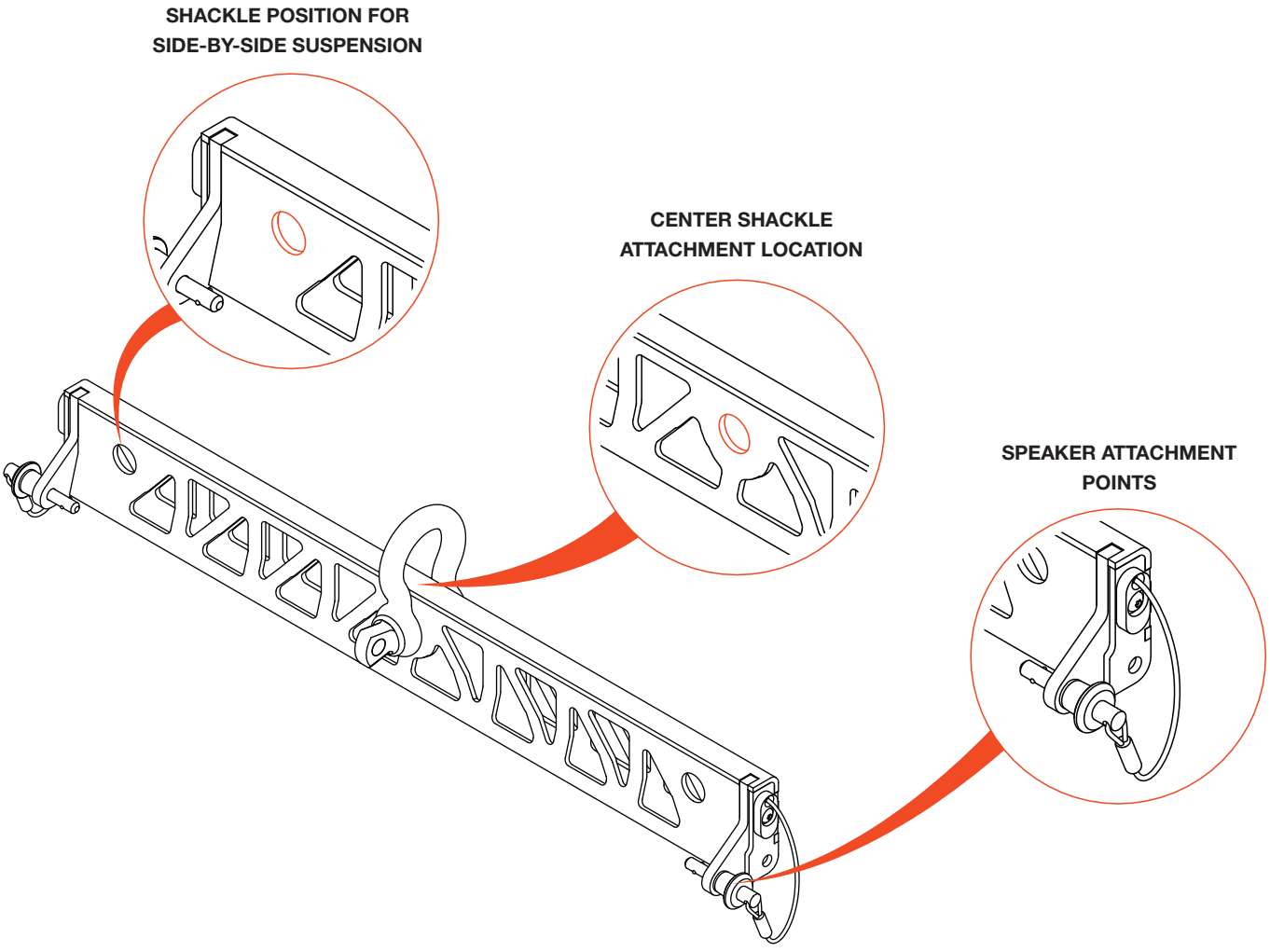


CAUTION: To create a rigid and secure structure when building mixed arrays with A6 and B15 cabinets, each cabinet should always use all four of the connection points corresponding to the points connecting the array to the array frame. It is recommended that all six connection points of the B15s be used at all times, even though only four are under load in this situation. For additional B15 configurations and safety recommendations, refer to the B15 Rigging Manual.

11 - VTX A6 SB SUSPENSION BAR

The VTX A6 SB is a lightweight suspension bar that can be used as an array frame or to implement pull-back for VTX A6 or B15 arrays. When used for pull-back, the VTX A6 SB enables more downtilt than is possible using the VTX A6 MF alone, by attaching it to the bottom cabinet of an array and then connecting to the suspension point for the rear of the array. The SB can also be attached to the top cabinet of an array and used as a compact array frame. Two VTX A6 SB Suspension Bars can be used, one at the top of the array and one at the bottom, for dual-point applications and added aiming flexibility. For more information on using the VTX A6 SB with the B15, refer to the **B15 Rigging Manual**.

11.1 SUSPENSION BAR OVERVIEW

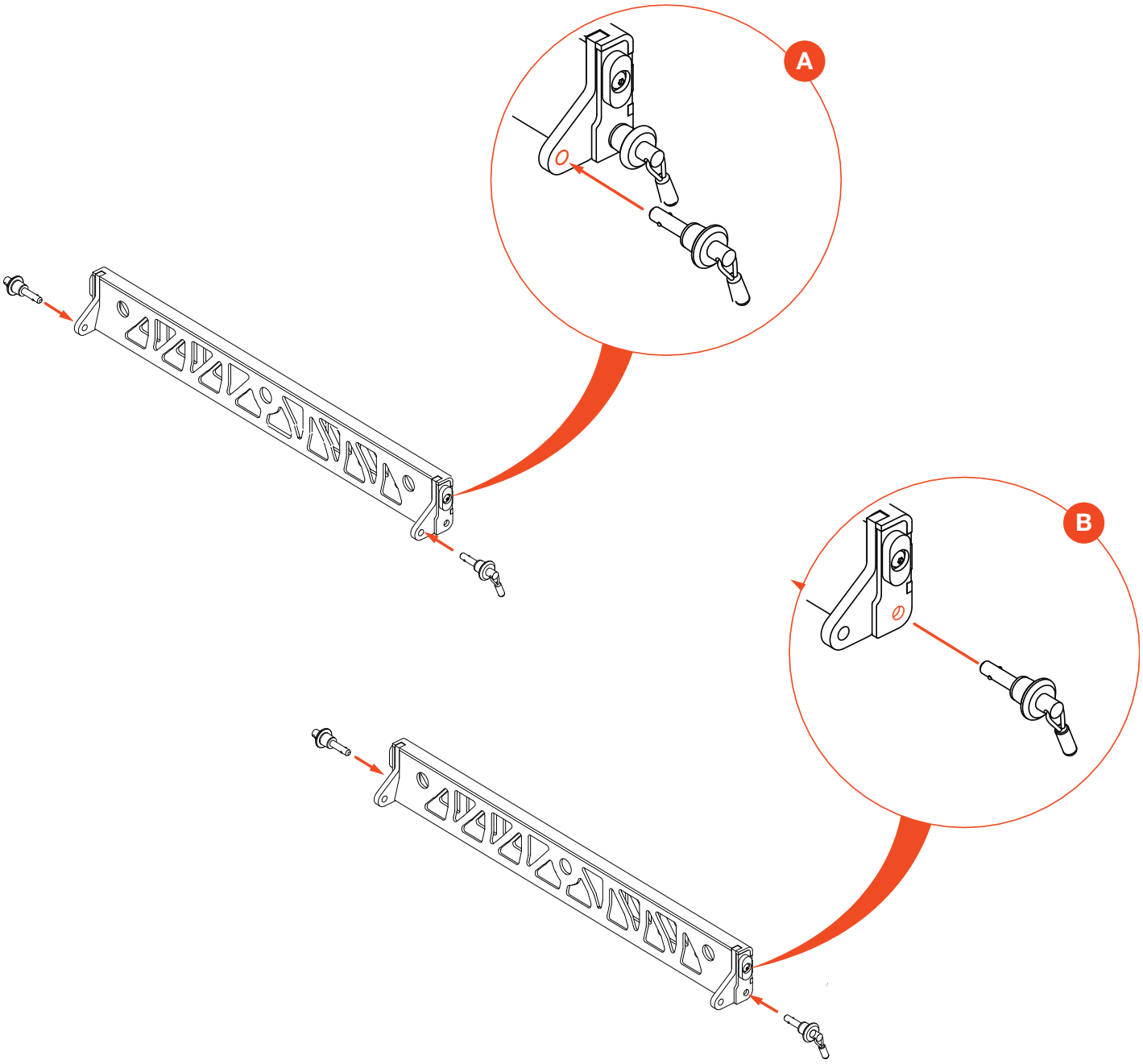


11.2 SUSPENSION BAR ATTACHMENT TABS

The Suspension Bar can be connected to either the bottom or the top of a suspended mixed array of VTX A6s and B15s. To attach a Suspension Bar to the VTX A6 or B15 cabinet at the bottom of an array, the array attachment tabs will be used in conjuction with the pins from the cabinet. When connecting an SB at the top of an array, the pin from the Suspension Bar will be used.

EXAMPLES:

- A Suspension Bar pin hole for attaching to the bottom of an array for pull-back.
- B Suspension Bar pin hole for attaching to the top of an array.

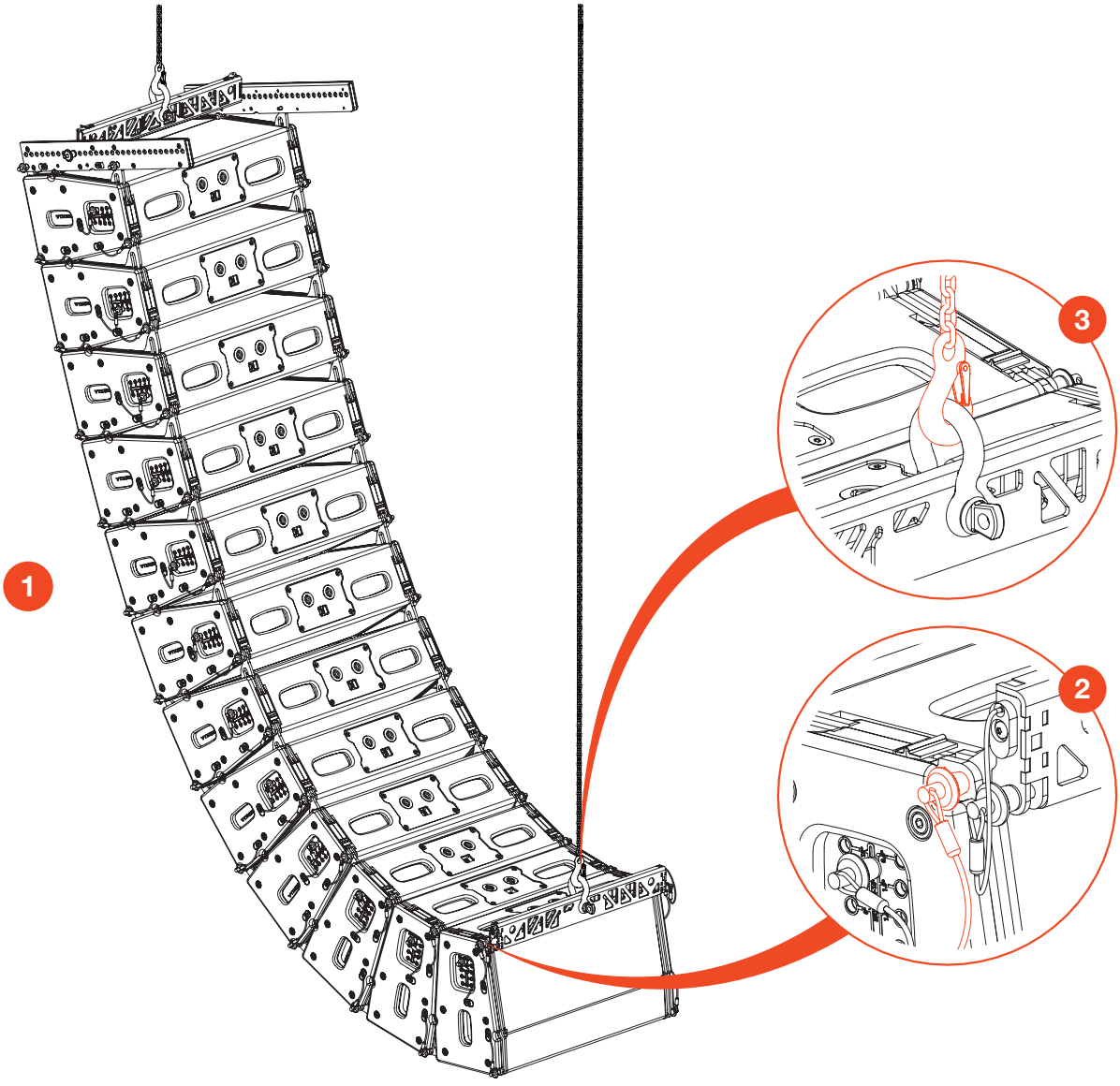


11.3 PULL-BACK

The primary role of the VTX A6 SB Suspension Bar is as a pull-back attachment at the bottom of an array for configurations requiring a significant amount of downtilt. In this case, the VTX A6 MF connects to the primary suspension point at the top of the array, with the VTX A6 SB mounted to the bottom of the array and lifted by a second motor point at the rear of the array. The two motors are adjusted to achieve the desired array downtilt.

STEPS:

1. Follow the steps in chapter 8 - Deploying Standalone A6 Arrays to suspend the VTX A6 array using the hoist attached to the Mini Frame.
2. Use the VTX A6 quick release pins to attach the Suspension Bar to the lowest VTX A6 in the array.
3. Attach the hoist to the center shackle position of the Suspension Bar and lift the array.

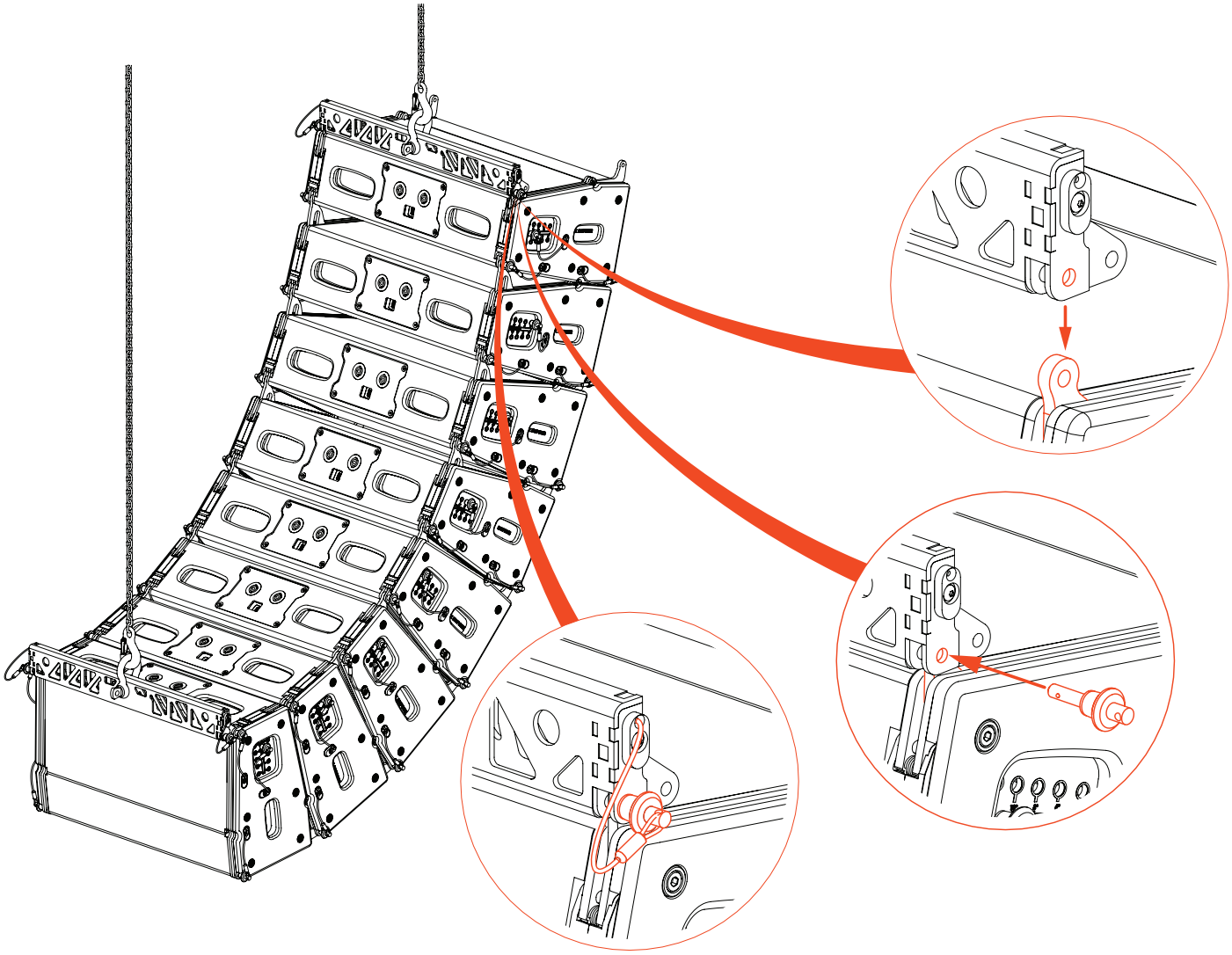


11.4 USING TWO A6 SUSPENSION BARS

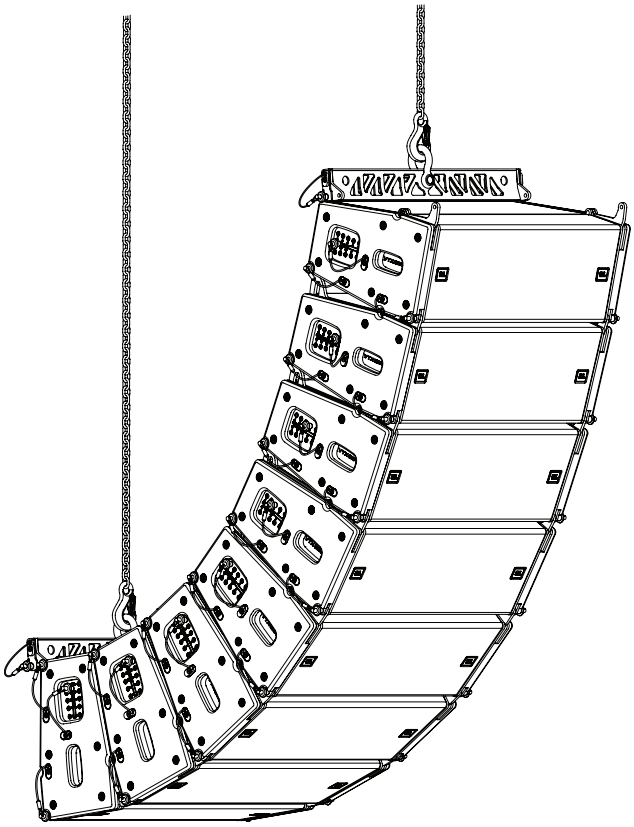
Two VTX A6 Suspension Bars can be mounted to the top and bottom of a VTX A6 array at the same time. This configuration can reduce cost and overall array weight when the flexibility of a VTX A6 MF Mini Frame is not needed. Fixed installations often benefit from this arrangement. However, since this setup is not as flexible as the combination of an Array Frame and Suspension Bar, assembling the array can take longer than normal.

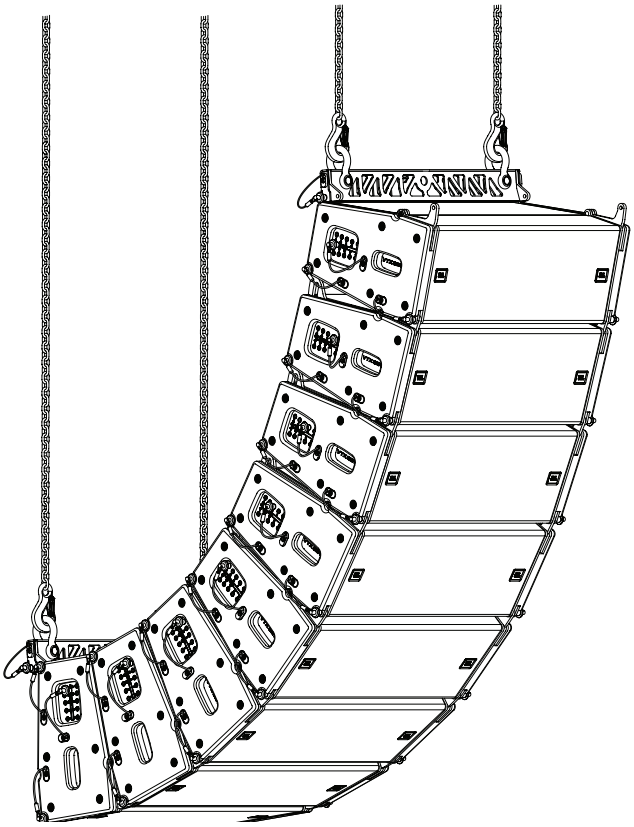
STEPS:

1. Connect the first Suspension Bar to the top cabinet of the array. Use the Suspension Bar pins to attach it to the A6 cabinet. The Suspension Bar should always be connected to the A6's rear suspension points.
2. Attach the motor to the Suspension Bar and lift the first A6 stack. Follow the instructions in chapter 8 - Deploying Standalone A6 Arrays to suspend the entire A6 array.
3. After the entire A6 array has been assembled, connect the second Suspension Bar to the lowest cabinet of the array using the cabinet's pins.



11.5 MULTI-POINT CONFIGURATION EXAMPLES

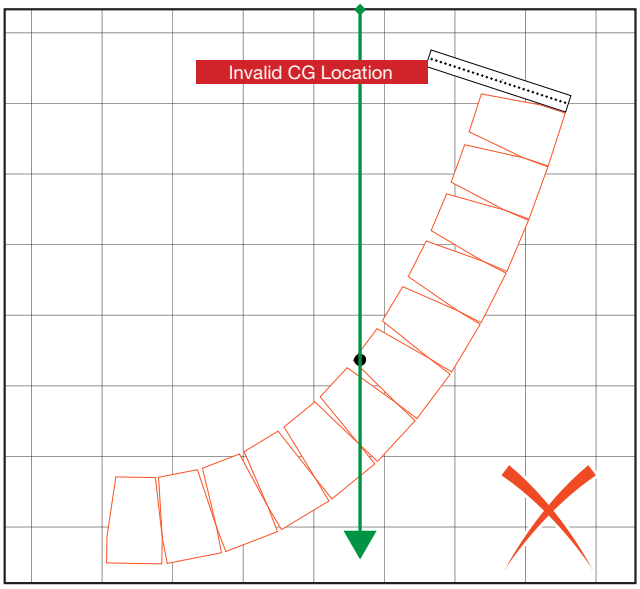




11.6 WHEN TO USE A PULL-BACK

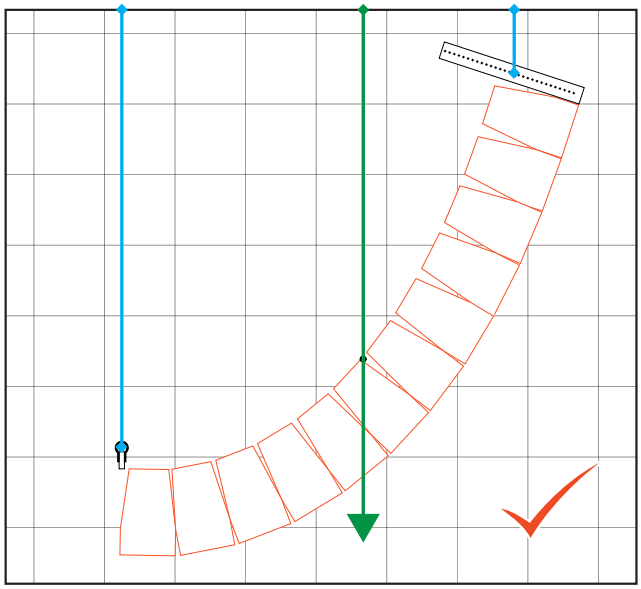
The use of a pull-back is common when the center of gravity (CoG) of an array falls outside the footprint of the Array Frame. Typically, long curved arrays with a large downtilt qualify for this condition. When this occurs, LAC-3 displays an error to indicate that the Mini Frame alone cannot achieve the down angle needed for the design (Example 1 - No pull-back). Using a VTX A6 SB Suspension Bar as a bottom frame will move the array CoG between the two suspension points, enabling almost any down angle to be achieved (Example 2 - With pull-back).

Example 1



Center of Gravity Suspension Points

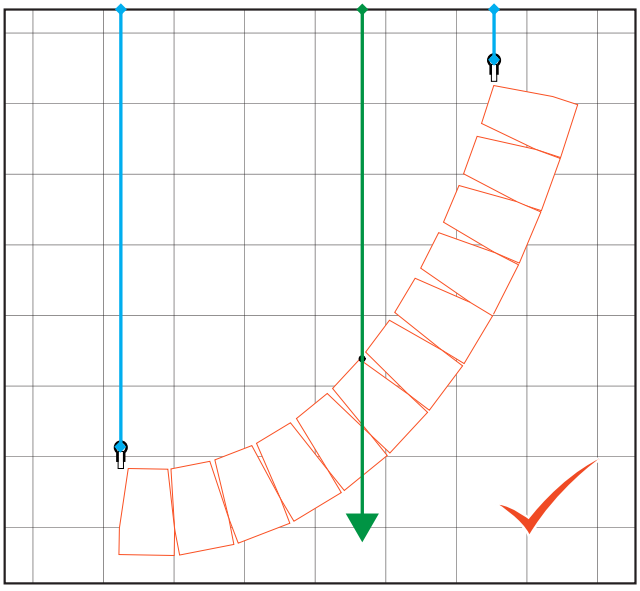
Example 2



Center of Gravity Suspension Points

However, when using the motors for the two suspension points to adjust the array angle, the pick-point flexibility of the MF Mini Frame is not needed. Using a Suspension Bar at the top and another at the bottom yields the same outcome, while saving some weight and cost (Example 3 - Two Suspension Bars).

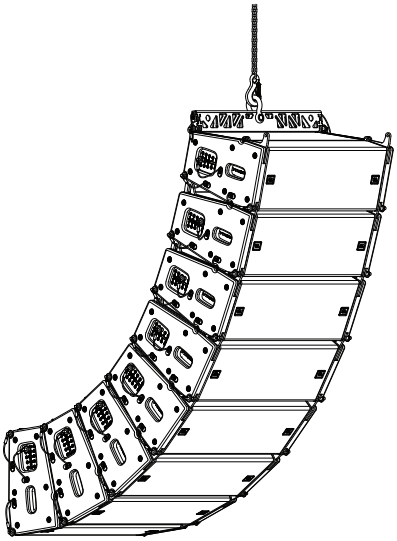
Example 3

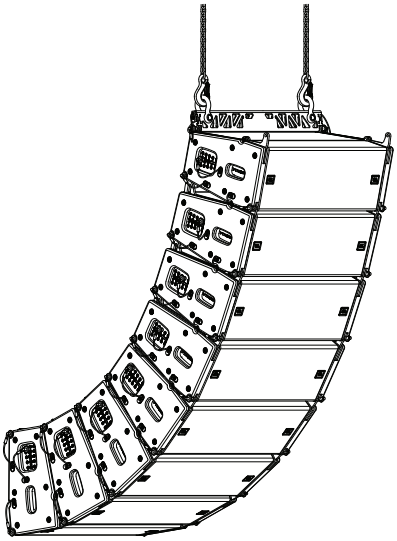


Center of Gravity Suspension Points

11.7 USING A SINGLE VTX A6 SB

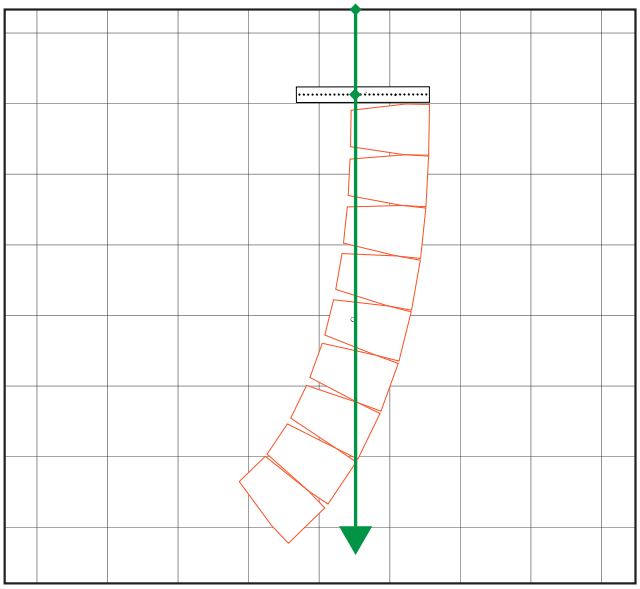
The Suspension Bar can also be used as the main suspension frame, but this configuration is not recommended for regular use. While the SB is simpler, lighter, and more cost-effective than using a VTX A6 MF, it requires the center of gravity (CoG) of the array to perfectly line up with the shackle position. If the CoG is in front of or behind the suspension bar, aiming of the array will be incorrect.





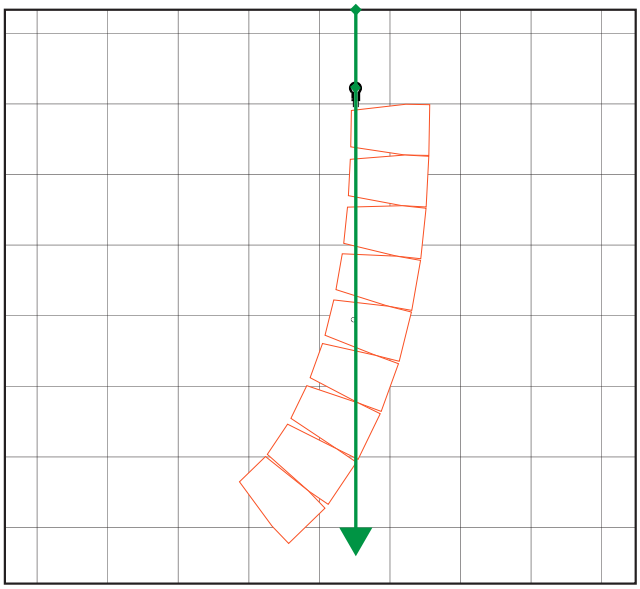
LAC-3 can be used to determine if this configuration is appropriate for a given array. Below is an example of an array where the CoG is perfectly aligned with the rear suspension point of the top A6 enclosure (Example 4 - CoG with Mini Frame). In this case, the flexibility of the Mini Frame is not needed and a Suspension Bar can be used instead (Example 5 - CoG with Suspension Bar).

Example 4 - CoG with Mini Frame



● Center of Gravity

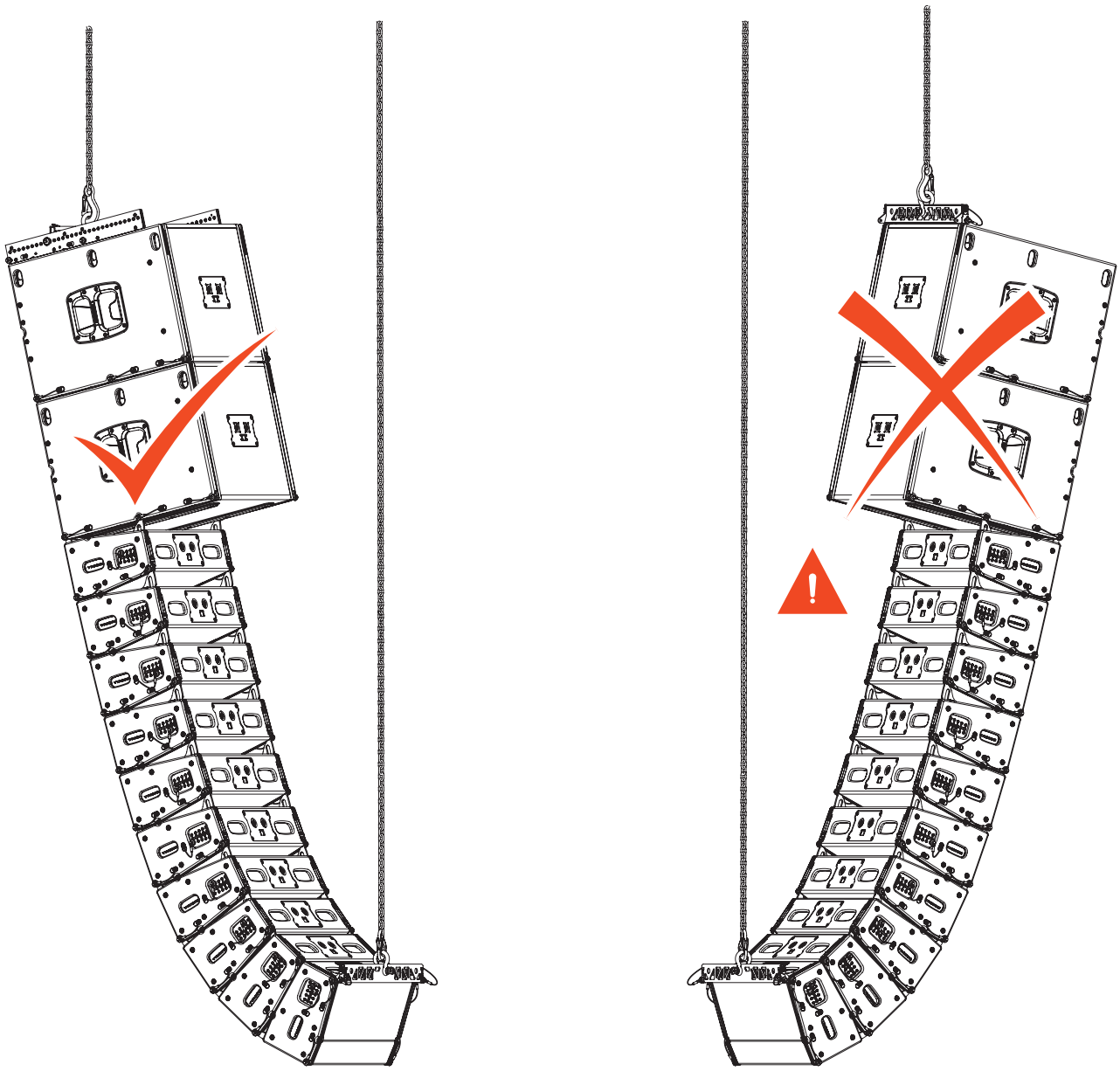
Example 5 - CoG with Suspension Bar



● Center of Gravity

11.8 SUSPENSION BAR AND MIXED ARRAYS

The Suspension Bar can be used as a pull-back in mixed arrays, but not as the main frame at the top. In these situations, a Mini Frame is required to provide the structural rigidity needed for mechanical safety. However, the Suspension Bar can be used at the top of a B15-only array. Details on the Suspension Bar and B15 usage are available in the **B15 Rigging Manual**. All mixed array configurations should be checked in LAC-3 for mechanical safety.



TIP: The VTX A6 SB Suspension Bar can be used at the top of B15-only arrays as the main suspension frame. Refer to the **VTX B15 Rigging Manual** for Suspension Bar usage examples.

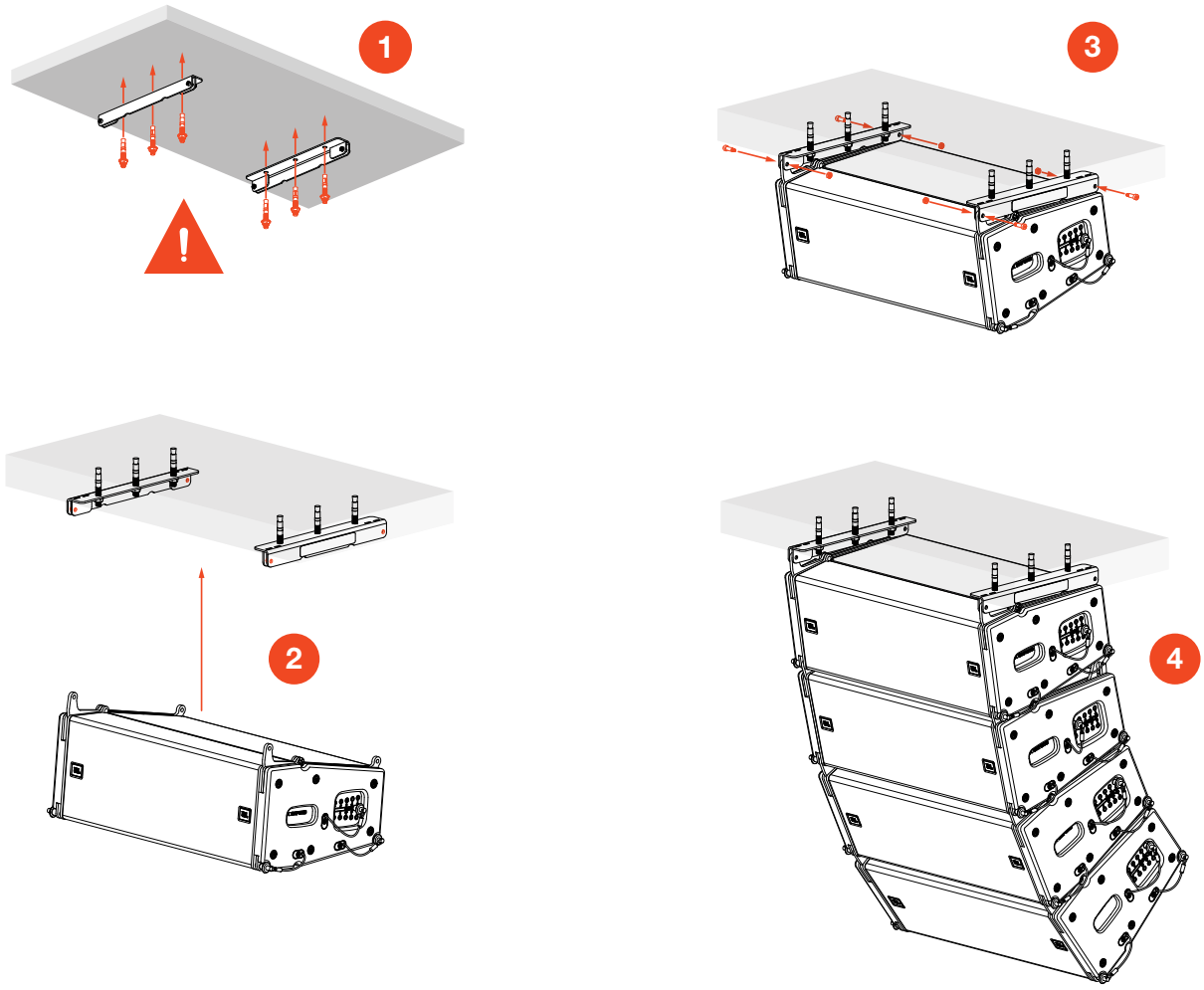
CAUTION: The VTX A6 SB Suspension Bar should never be used at the top of an array when VTX A6 and VTX B15 products are combined in the same array. Always check in LAC-3 for mechanical safety.

12 - THE VTX A6 CEILING MOUNT

The VTX A6 CM Ceiling Mount accessory allows for a cost-effective way to suspend individual or small A6/B15 arrays from a capable structure in a permanent installation scenario. The ceiling mount creates the lowest profile mounting solution making it a great choice in situations where ceiling height is limited, such as underbalcony fill applications. The arrays are hand stacked from the top down, and down angles are set from the hardware of the first cabinet.

STEPS:

1. Use the included drilling template to mark the hole positions. Attach the brackets to the structure.
2. Set the angle of the first A6 on the ground and pre-extend the rigging.
3. Using the provided hardware, attach the first speaker to the brackets.
4. Set the angle of the next A6 and attach to the first A6. Repeat step 4 until the array is complete.

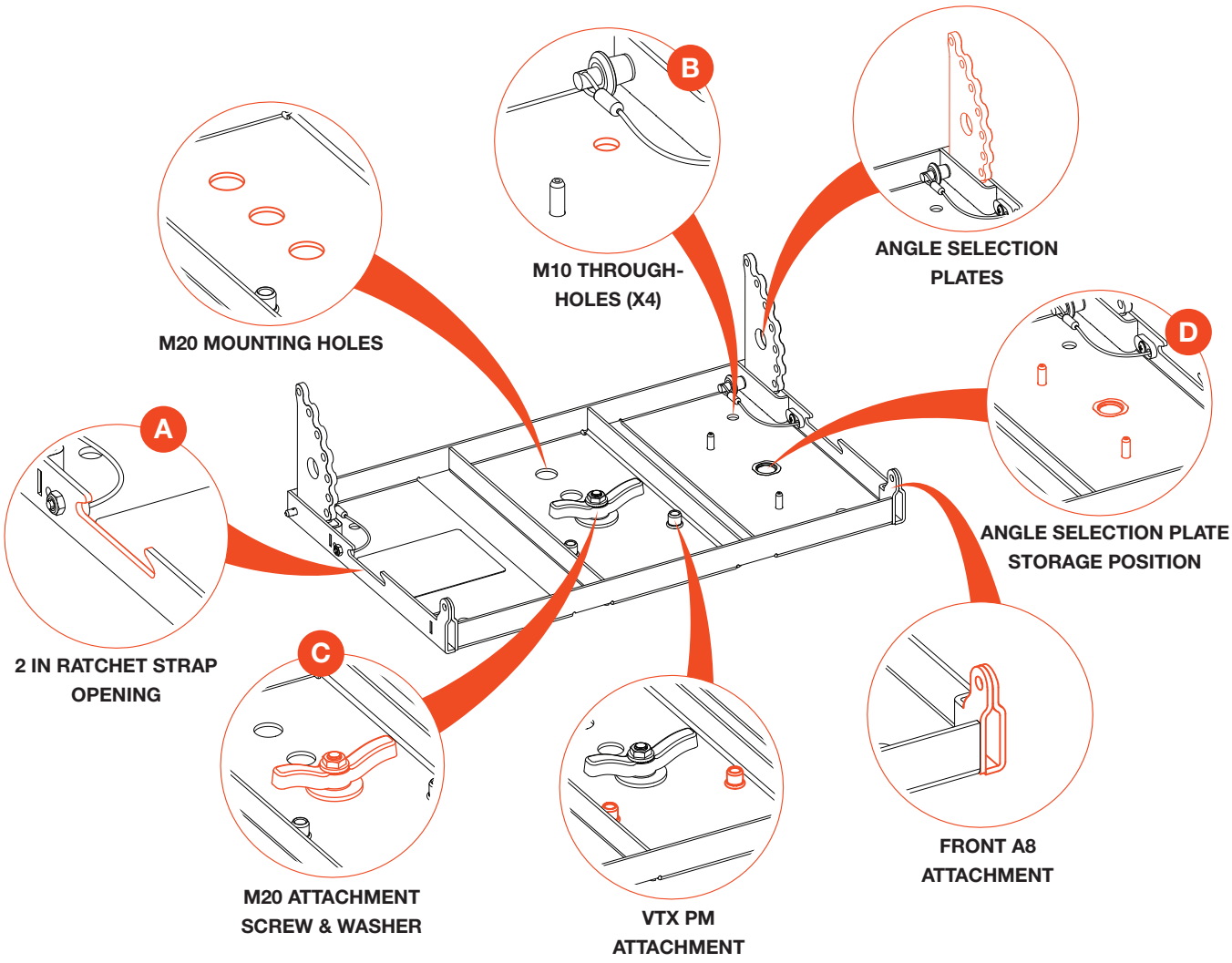


CAUTION: It is the responsibility of the installer/user to ensure that the structure and hardware are sufficient and rated for the exact use case and requirements. Any mechanical limits provided in this manual are strictly for the brackets and nothing else.

13 - VTX A6 BP BASE PLATE

The VTX A6 BP Base Plate is a universal adapter frame that enables VTX A6 arrays to be ground stacked on top of compatible subwoofers or support structures such as stages, scaffolding, or carts. Using the included M20 screw the VTX A6 BP connects to any supported subwoofer equipped with a standard M20 pole mount adapter, such as the VTX B28, VTX B18, or VTX B15. LAC-3 software indicates which of the three mounting holes to use, based on the subwoofer used for the base of the ground stack. The base plate attaches directly to the bottom of an A6 array, and the rear angle selection bar allows for angles ranging from -15 to +5 degrees. When not used with subwoofers, M10 through-holes at the four corners can be used to permanently attach an A6 array to other support structures. The base plate includes one 50 mm (2 in) through-hole on each side for easy use with ratchet straps.

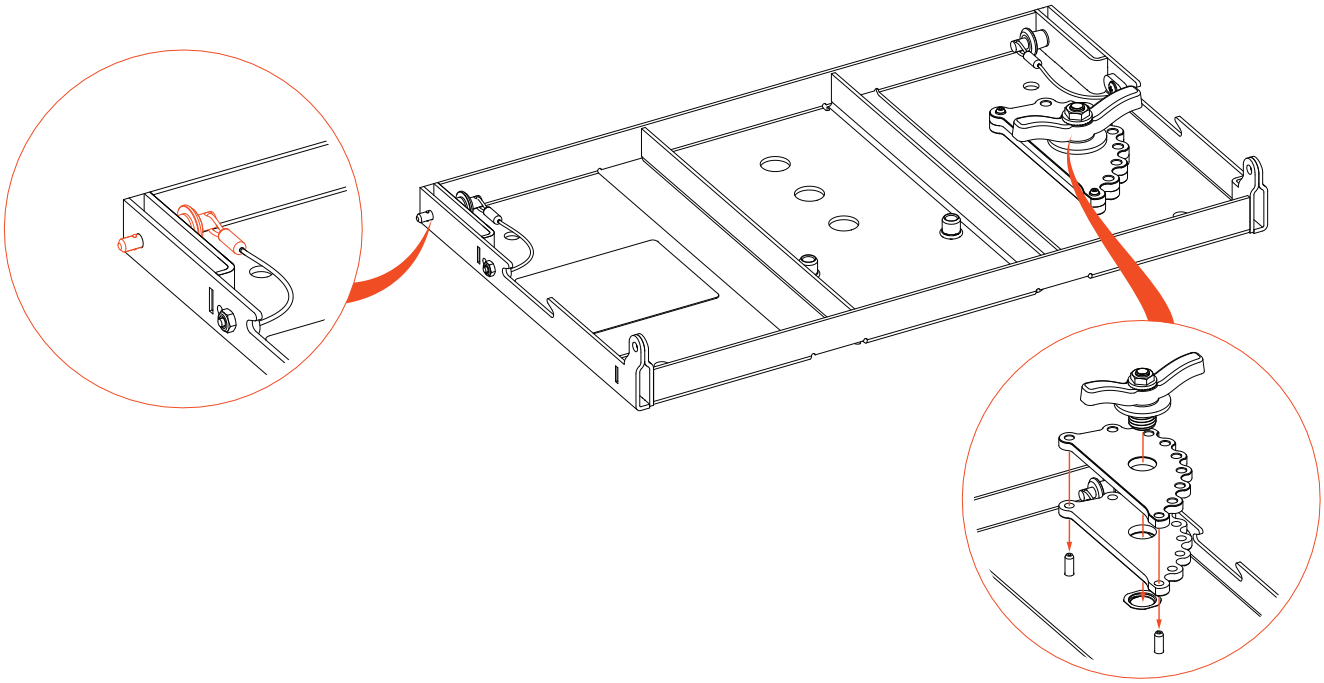
13.1 BASE PLATE OVERVIEW



NOTES:

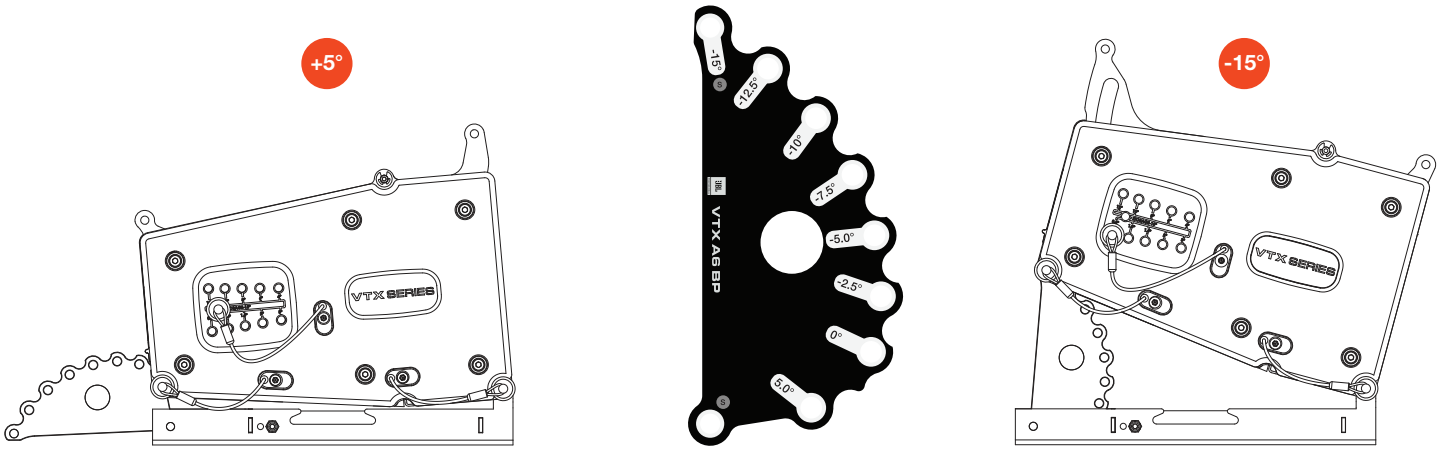
- **A** A ground-stacked array can be kept from tipping by securing it to a structure with a 50 mm (2 in) ratchet strap.
- **B** Four M10 screws enable the base plate to be secured onto a fixed structure (like a stage or a cart) in permanent installations.
- **C** M20 knob and screw for attaching the base plate onto supported VTX subwoofers like the VTX B28, VTX B18 or VTX B15.
- **D** Storage position for the two angle selection bars. Use M20 knob to secure.

13.2 STORAGE POSITION



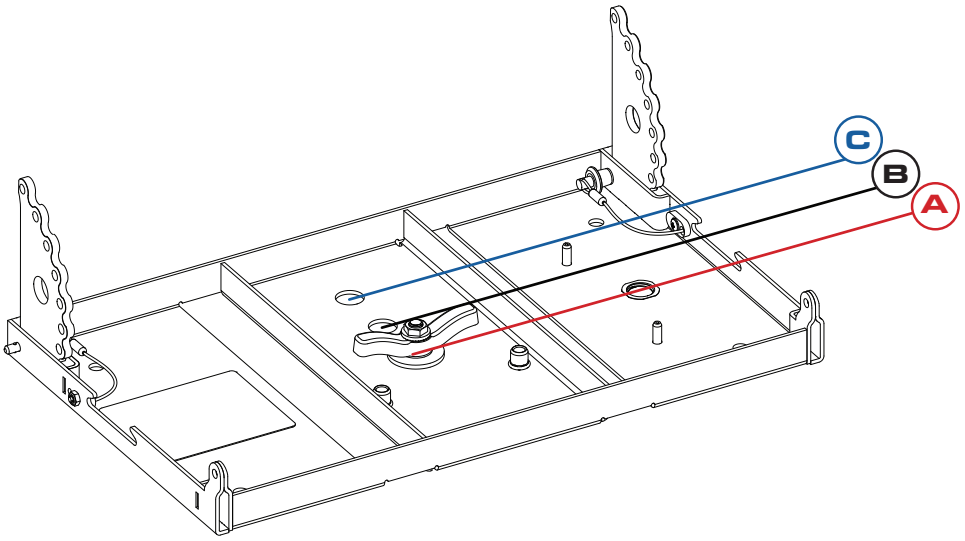
13.3 ANGLE SELECTION PLATES

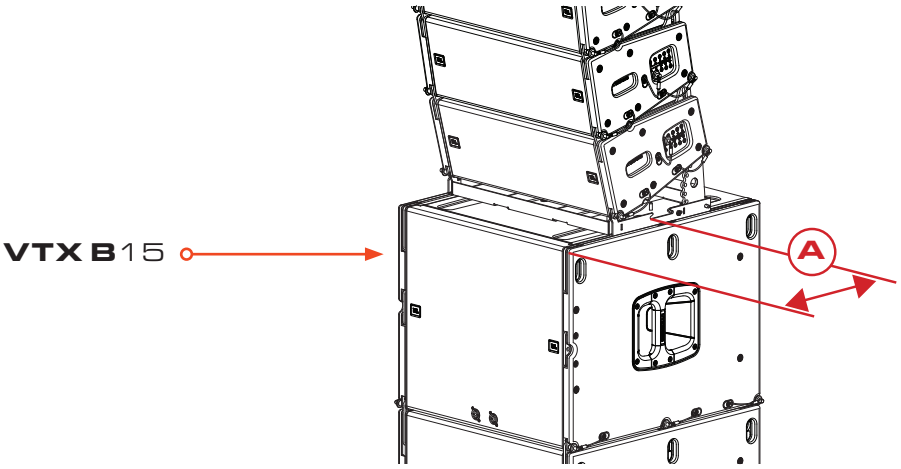
The Base Plate angle selection plates include eight pin positions, allowing for a range of angles from +5 to -15 degrees in 2.5-degree steps. This facilitates selection of the most appropriate position for establishing the required array down angle.

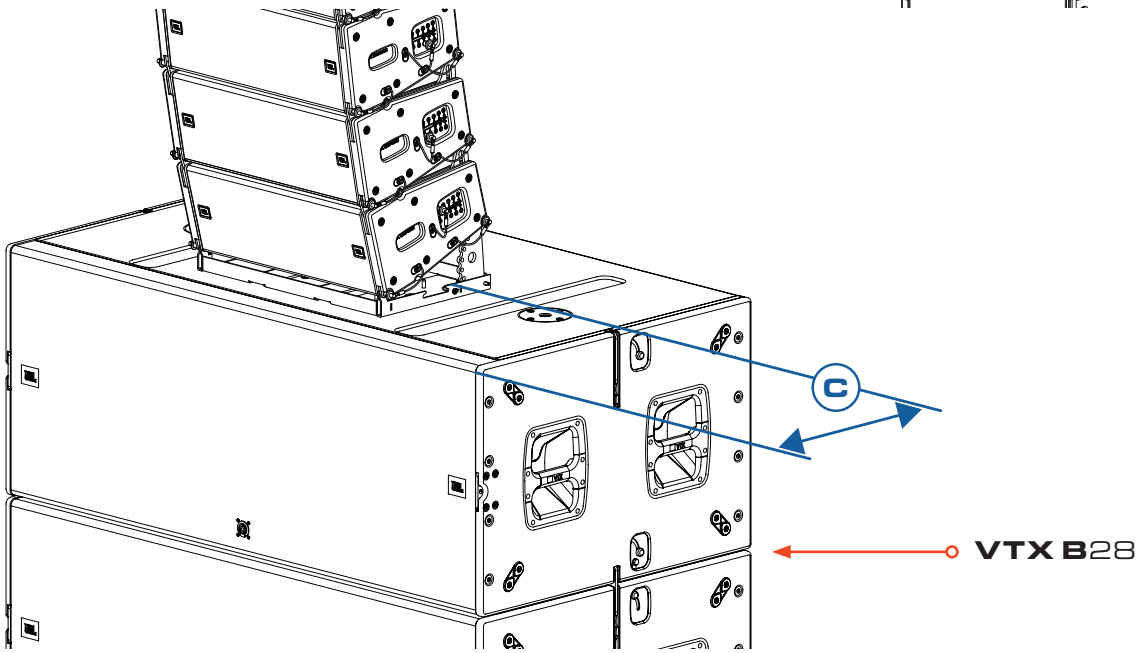


13.4 M20 MOUNTING POSITIONS

The Base Plate includes three M20 positions for attaching to compatible subwoofers. The hole positions are designed to align the A6 cabinets at the ideal point on different sized subwoofers to provide stability while allowing for the full range of angle selection. LAC-3 calculates the correct mounting hole based on the system selected and displays this information to the user for proper installation.

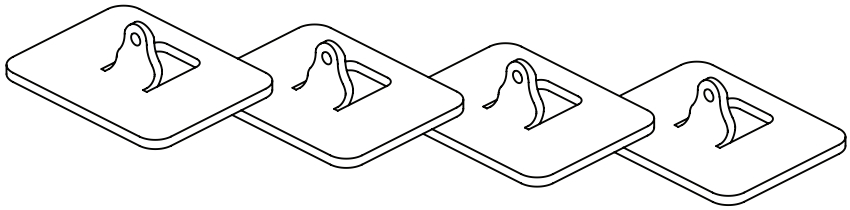






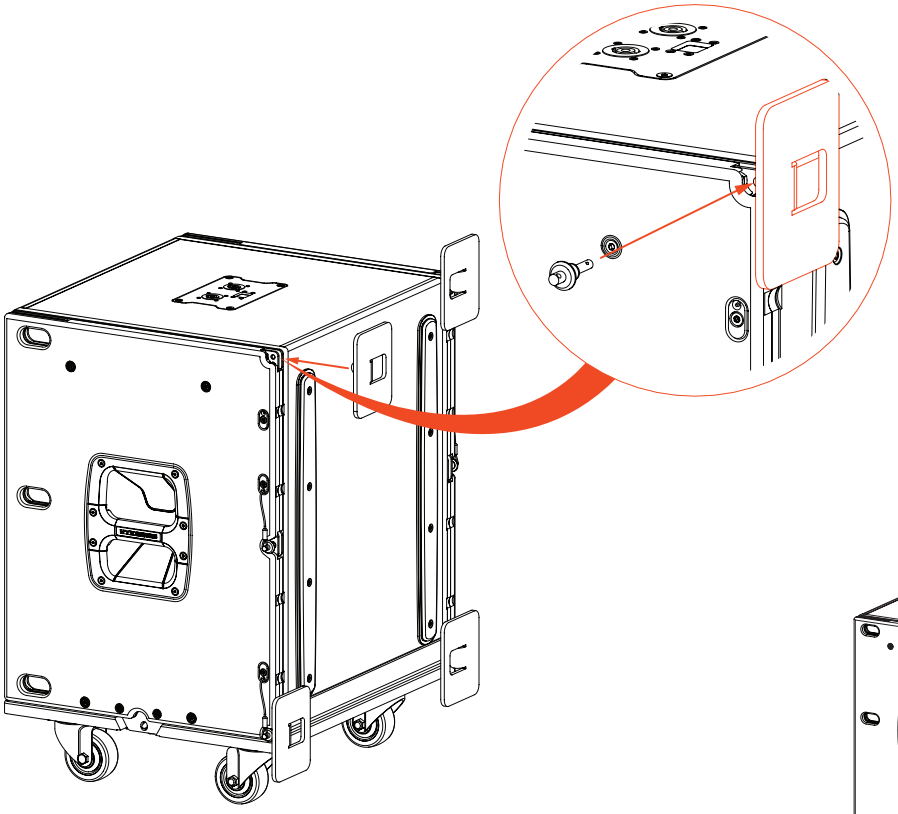
13.5 VTX B1 GND

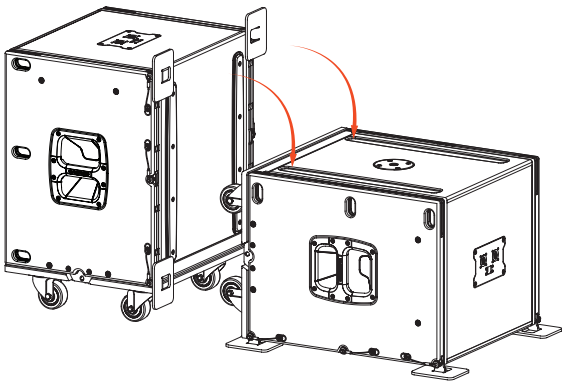
To increase the footprint of the B15, the B1 GND accessory can be purchased separately and installed. The B1 GND feet attach to the B15 using the four corner quick release pins, and provide additional stability for taller arrays. **The feet are only needed when the Base Plate is used in conjunction with the VTX B15 or B18. When the Base Plate is used with other VTX subwoofers like the VTX B28, different accessories may be needed, such as the VTX B28 GND.**



STEPS:

1. While the B15 is still on the B15 ACC dolly, remove each of the four corner pins and attach the feet.
2. With all four feet in place flip the B15 onto the feet.
3. Remove the ACC dolly. Additional B15 cabinets can be stacked on top if needed.



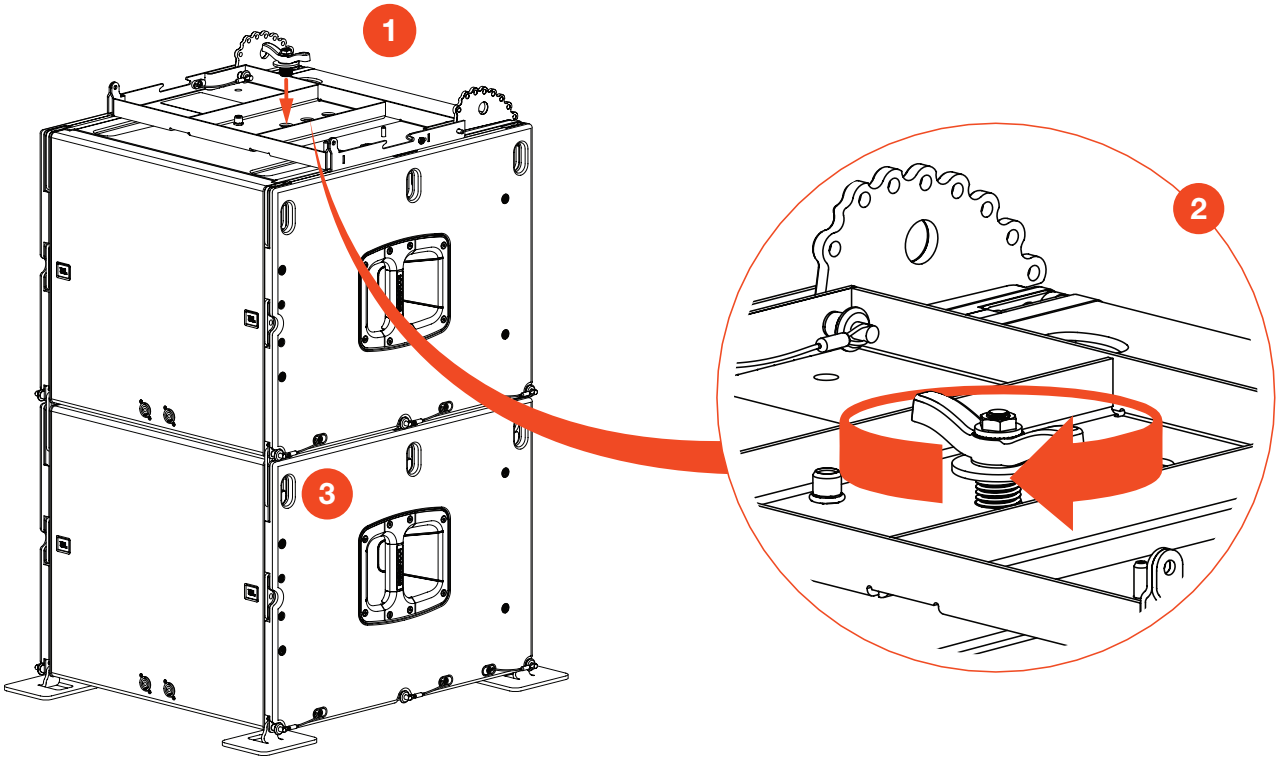


13.6 ASSEMBLING GROUND-STACKED ARRAYS

The A6 Base Plate attaches to any JBL VTX subwoofer with an M20 pole mount adapter/plate. Before attaching the Base Plate, assemble the subwoofer array/stack and place it in the desired location and position. The Base Plate connects to the subwoofers using the included M20 knob. A6 cabinets connect to the Base Plate using the cabinet's quick release pins. Follow the instructions below to assemble an A6 ground-stacked array. The same steps are used regardless of the subwoofer type.

STEPS:

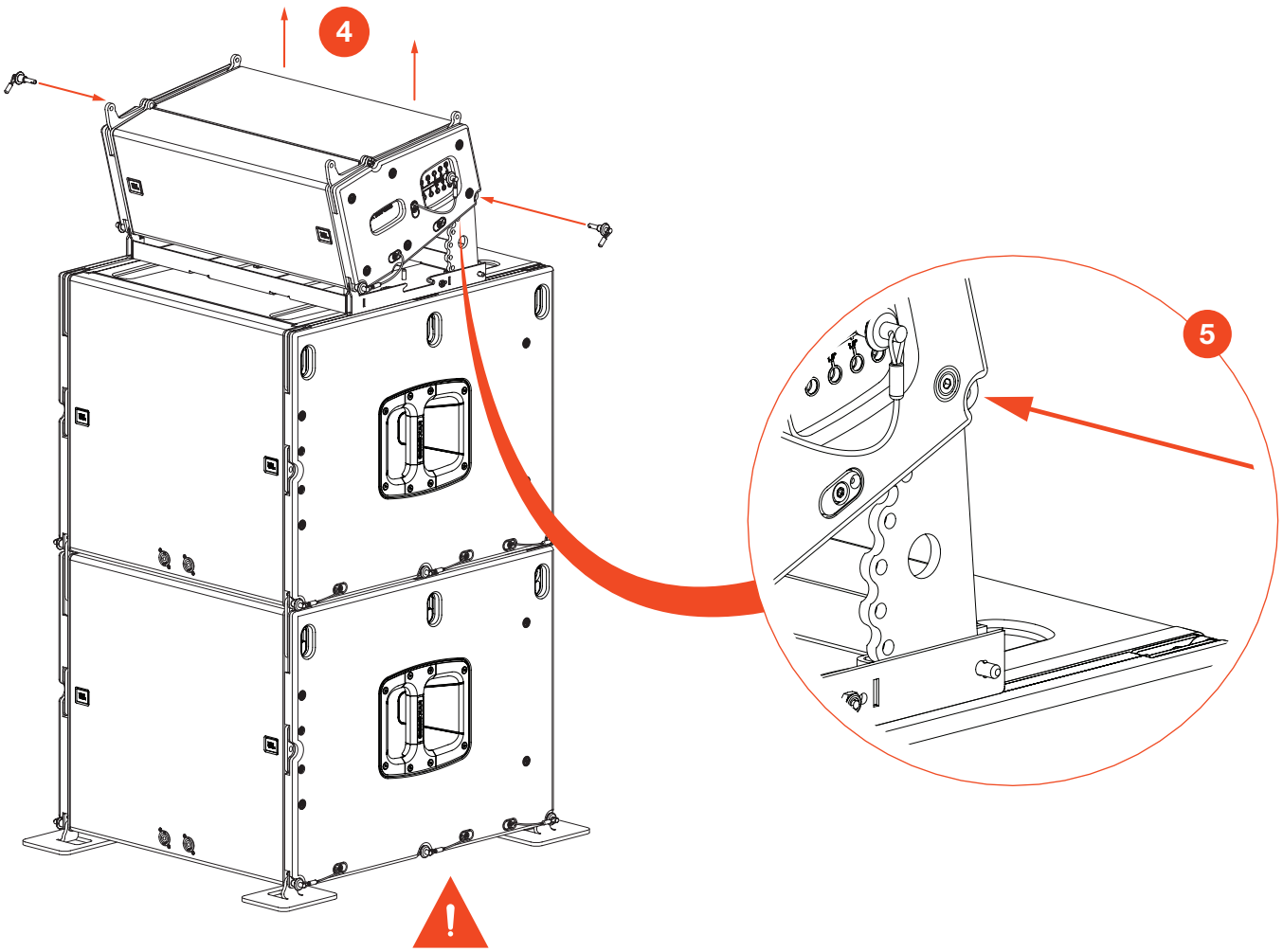
1. Place the Base Plate onto the top subwoofer in the array.
2. Use the included M20 knob to secure the Base Plate onto the subwoofer.
3. For subwoofers with rigging, ensure that all cabinets are pinned together, and the GND accessory is used.



CAUTION: Safe limits for ground-stacked arrays always assume that the stacking surface (floor or stage) is flat. Do not deploy ground-stacked arrays on non-flat surfaces to avoid tipping hazards.

STEPS (CONTINUED):

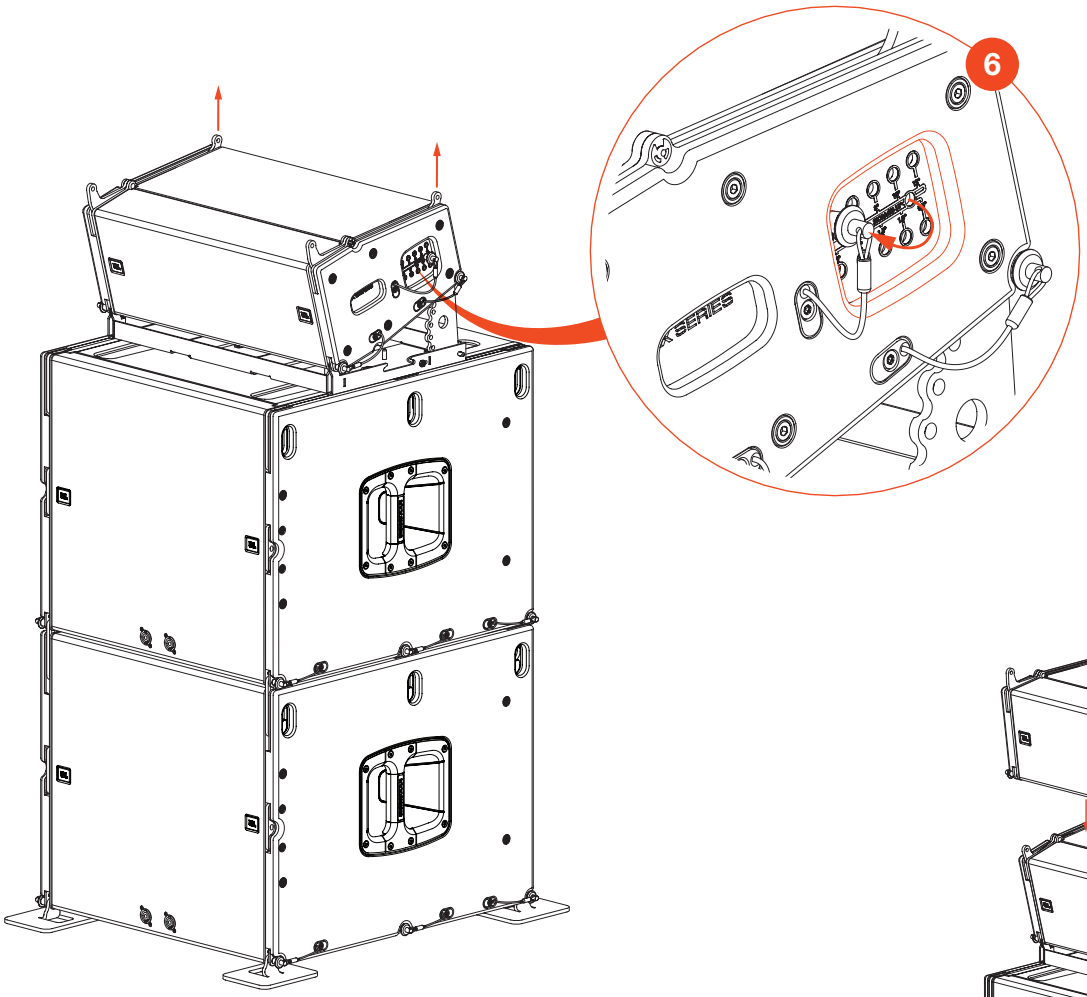
4. Place the first A6 onto the Base Plate and pin the front two corners.
5. Lift the back of the A6 and position the angle selection plate at the desired location. Pin the rear two corners.

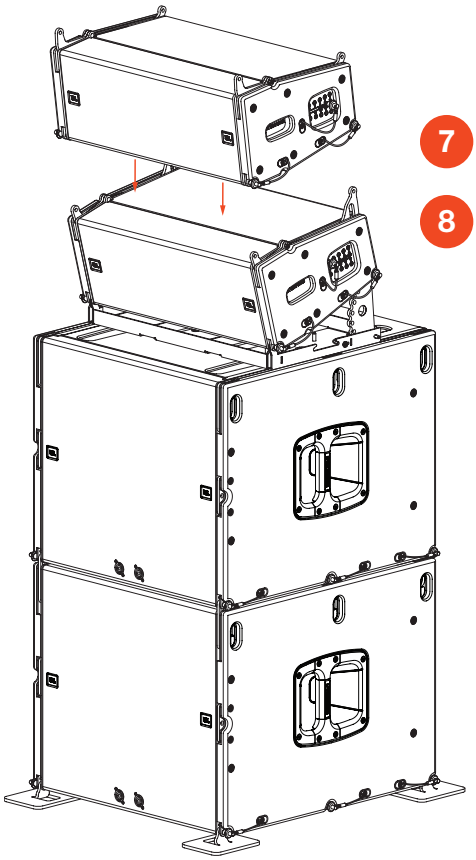


CAUTION: Safe limits for ground-stacked arrays always assume that the stacking surface (floor or stage) is flat. Do not deploy ground-stacked arrays on non-flat surfaces to avoid tipping hazards.

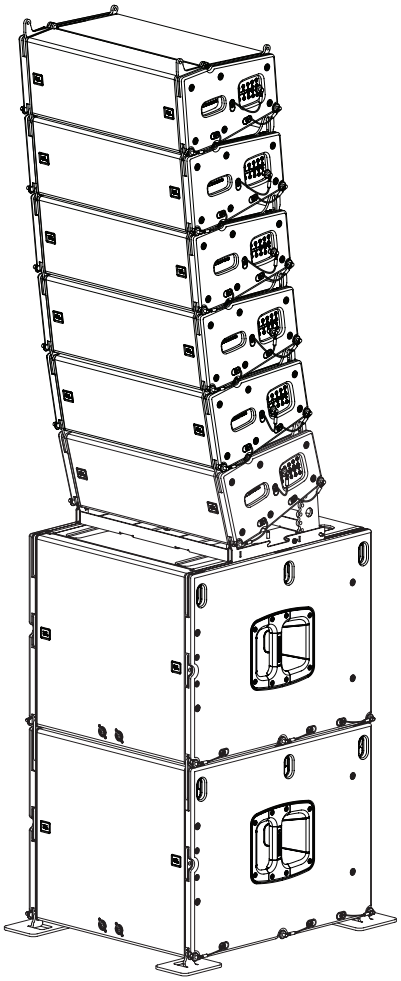
STEPS (CONTINUED):

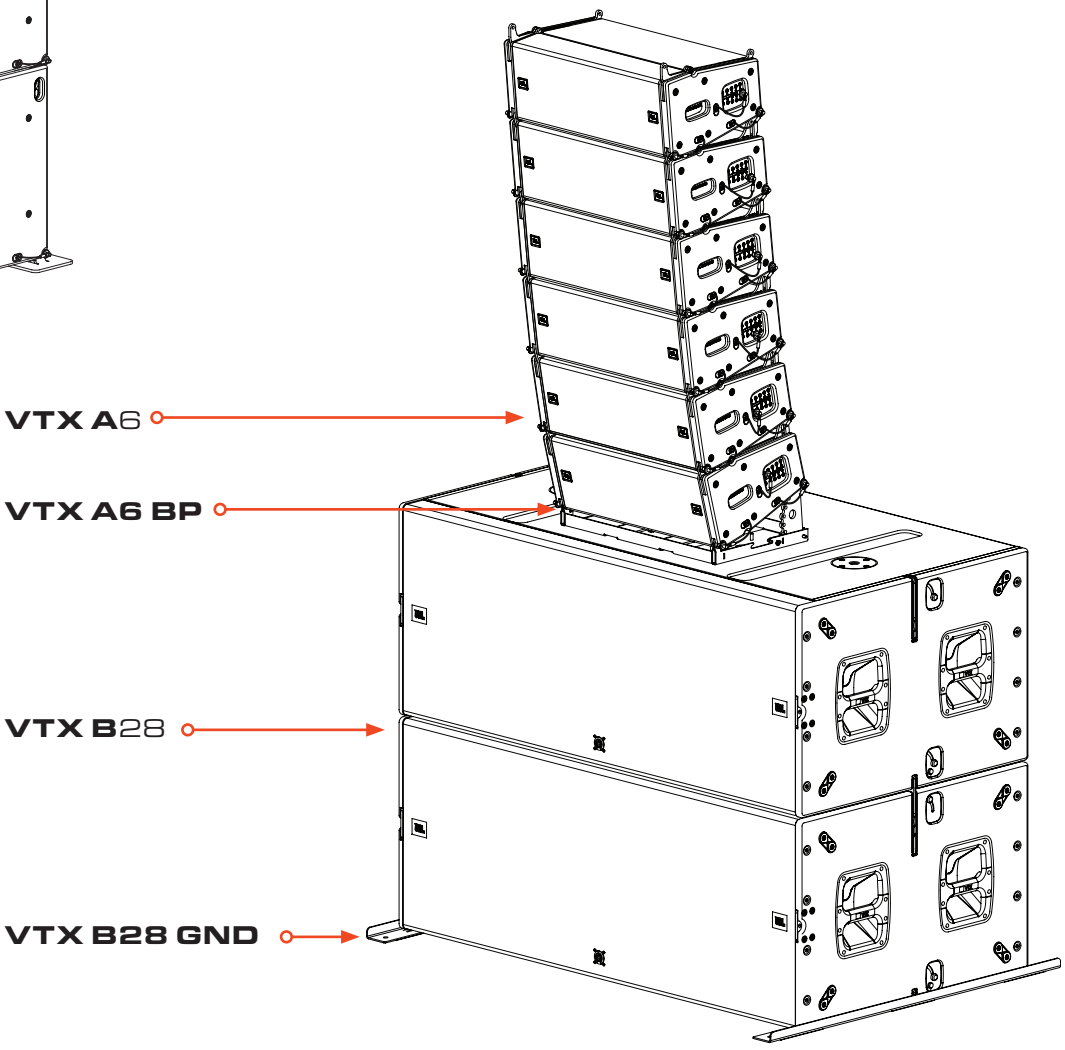
6. Set the cabinet-to-cabinet angle for the first A6 and extend the rigging arms.
7. Stack the next A6 on top, pin the cabinets together, and set the angle for the next cabinet.
8. Repeat steps 3 and 4 as needed to assemble the full array.





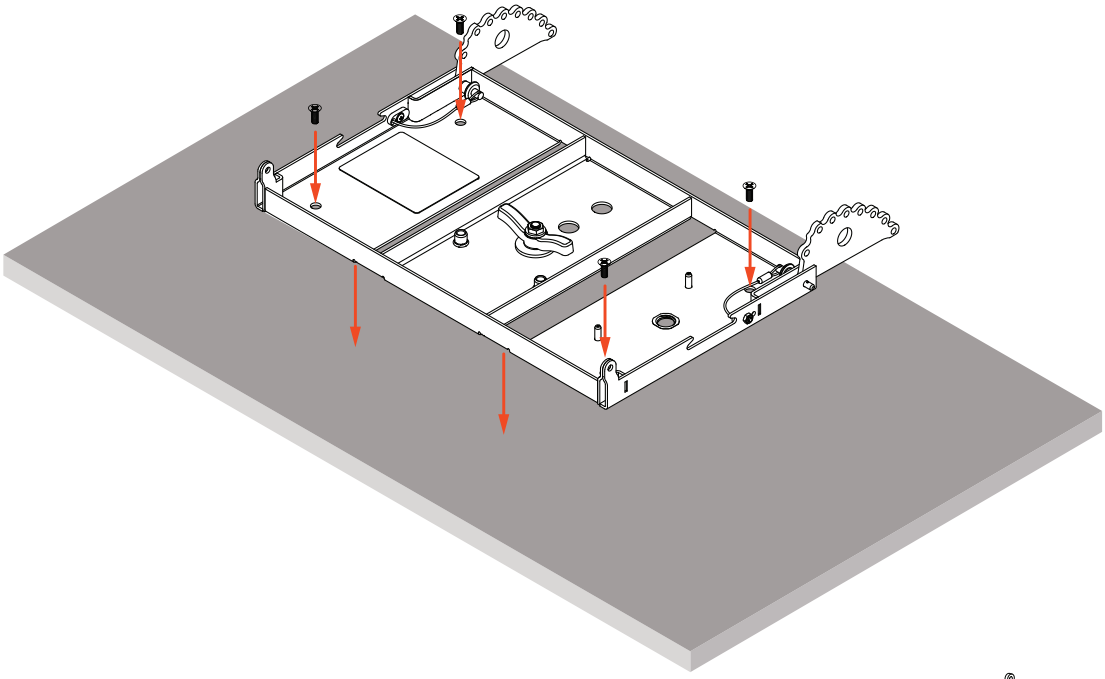
13.7 GROUND STACK EXAMPLES

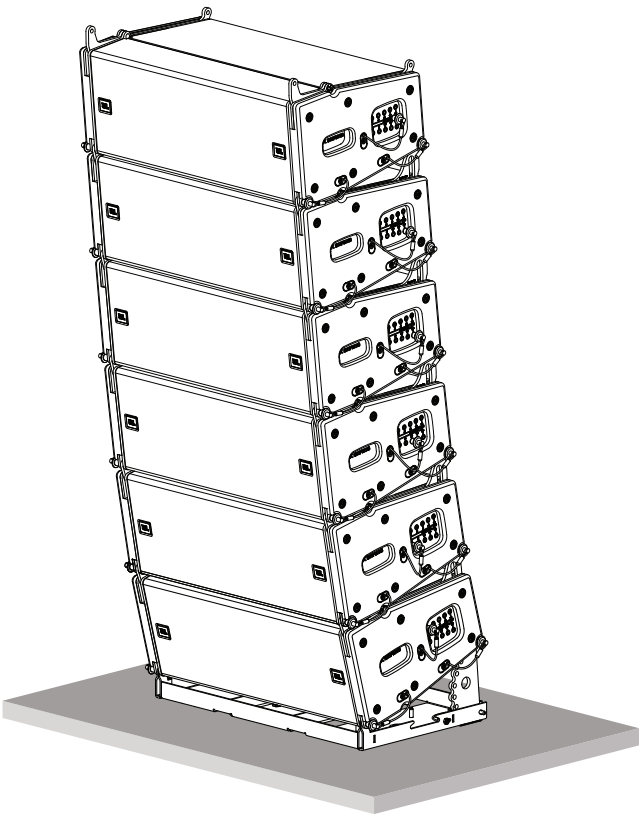




13.8 ATTACHING THE BASE PLATE ONTO A STRUCTURE

The Base Plate can be permanently attached to a structure like a stage or platform using its four M10 through-holes. This is especially useful for permanent installations or other fixed applications where a ground-stacked A6 system is needed but not often moved. In such situations, the base plate is permanently attached to the structure and subwoofers are not used beneath the array. For detailed drawings of the A6 Base Plate and the position and size of its holes, refer to the **VTX A6 Customer Drawings**.



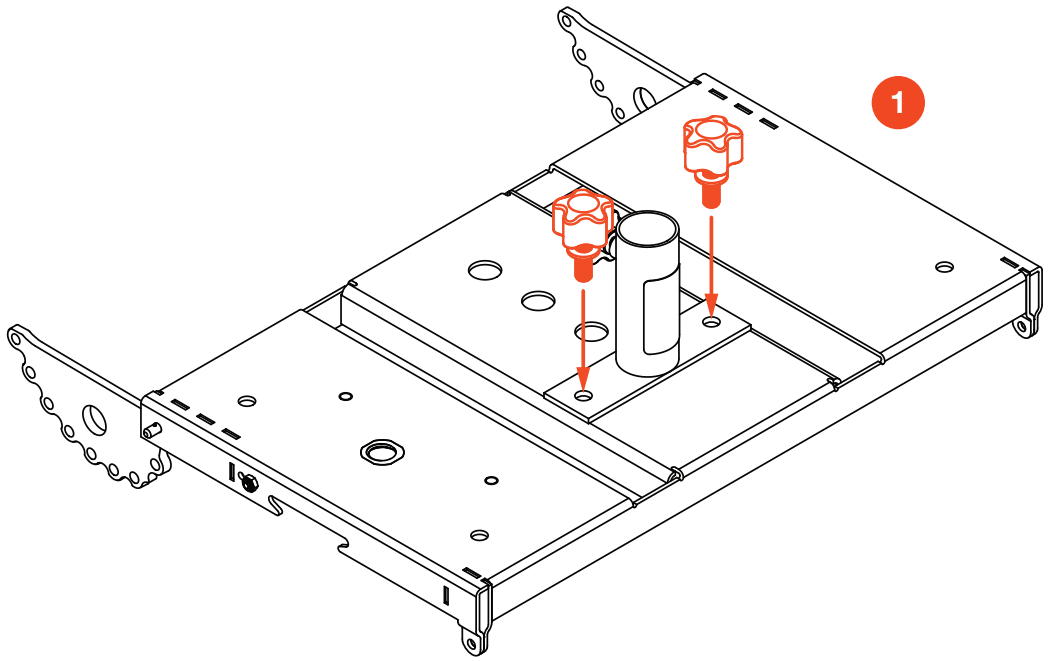


13.9 POLE MOUNTING A6 ARRAYS

The VTX A6 BP Base Plate can be mounted on top of a standard 35 mm pole when used in conjunction with the VTX PM. This pole mount accessory attaches directly to the bottom of the Base Plate using two included M10 thumb screws. For optimum performance the bottom speaker should be placed above ear height (1.9 m or 75 in), and the angles provide below are a good starting point for a flat 20 m (60 ft) deep venue. Refer to the **VTX A6 User Manual** for preset information.

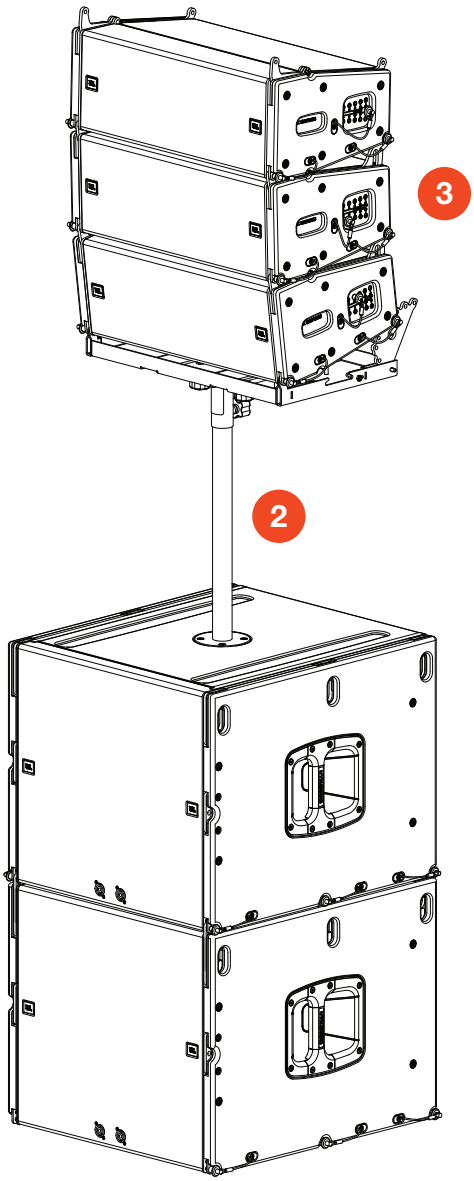
STEPS:

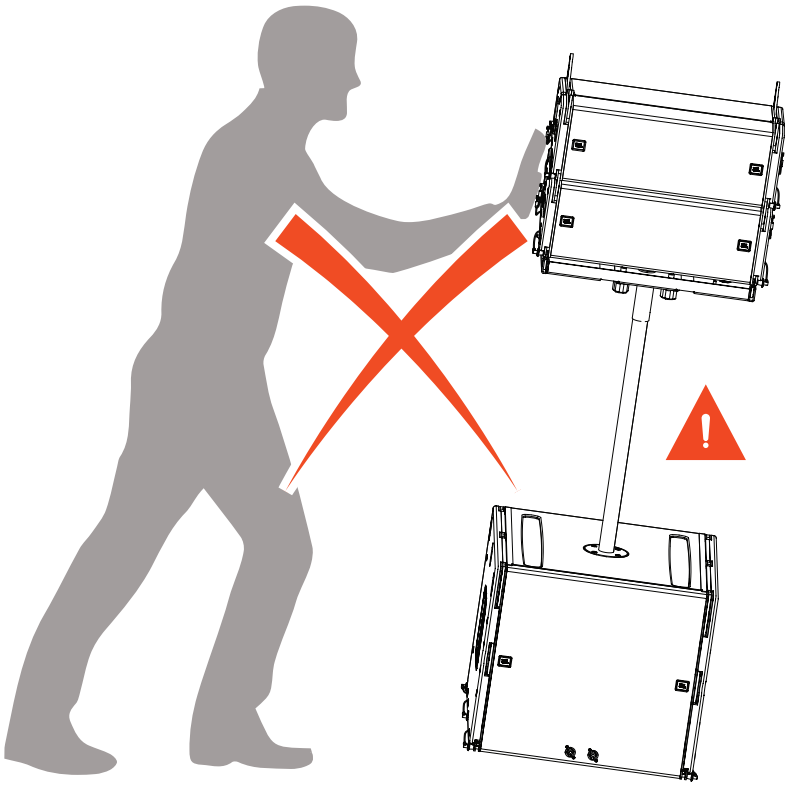
1. Mount the VTX PM to the base of the A6 BP using the two included M10 thumb screws.
2. Set the Base Plate on to the pole.
3. Stack the A6 cabinets on top of the Base Plate.



COMPONENT	ANGLE
Top A6	15° (STORAGE)
Middle A6	1°
Bottom A6	6°
Base Plate	-10°

Configuration Example



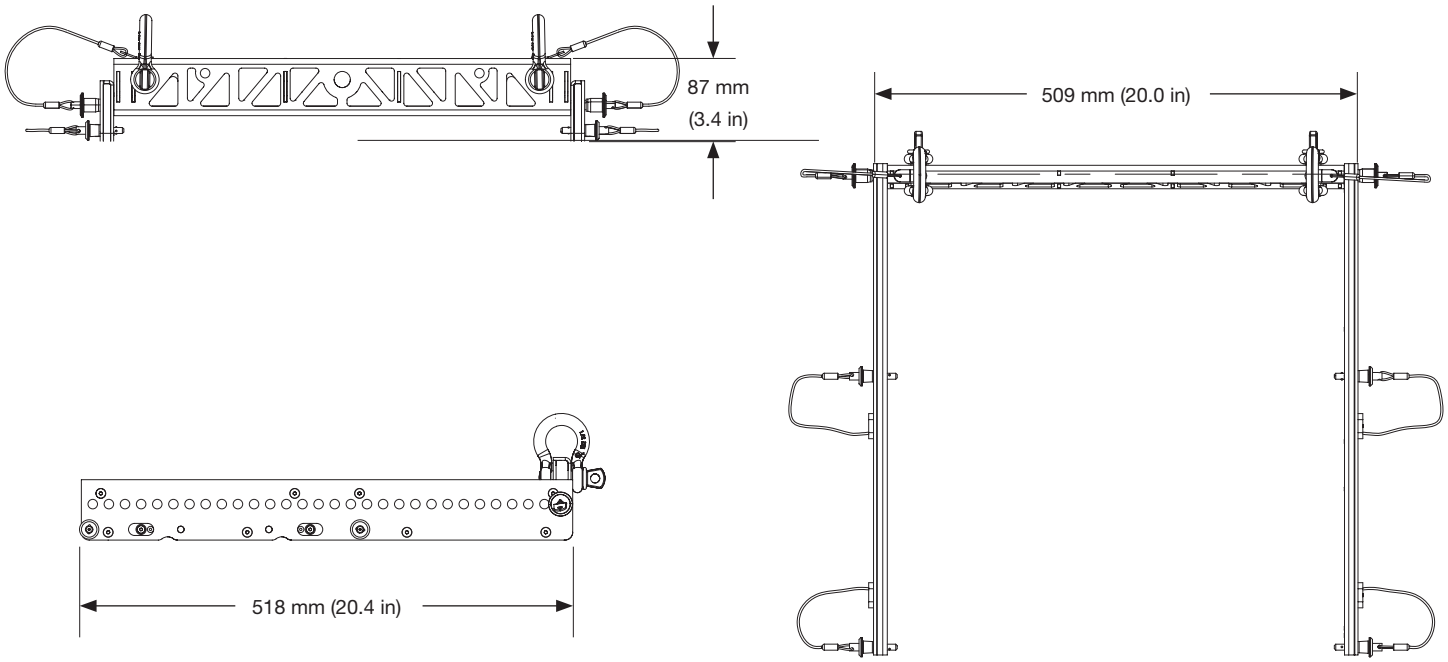


CAUTION: Do not deploy ground-stacked arrays on non-flat surfaces to avoid tipping hazards. Safe limits for ground-stacked arrays always assume that the stacking surface (floor and stage) is flat.

CAUTION: Lifting or pushing the extension rod, or sliding the subwoofer with a loaded extension rod, is unsafe. This can result in permanent damage or reduce the capacity of the M20 plate, potentially leading to a falling loudspeaker and personal injury.

14 - SPECIFICATIONS

14.1 - VTX A6 MF



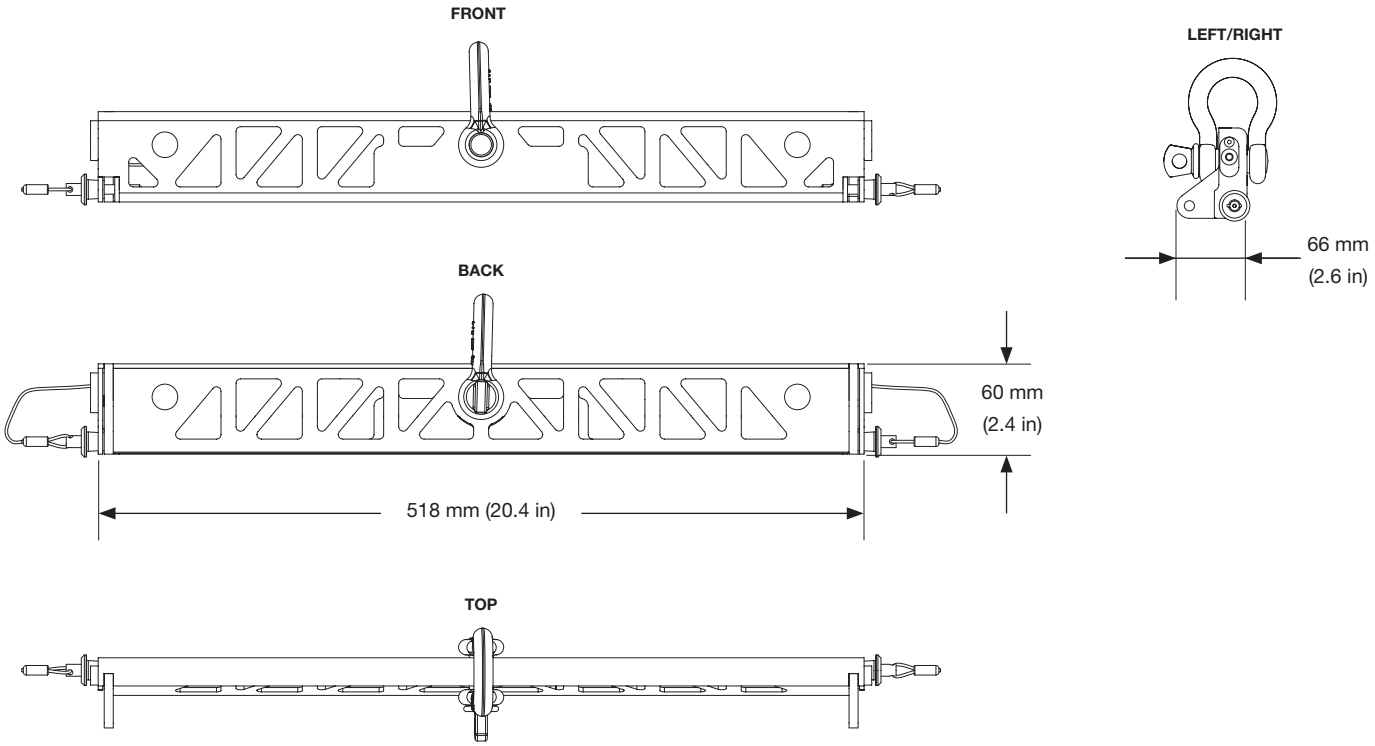
TECHNICAL SPECIFICATIONS

PHYSICAL	
Construction :	High-grade steel with anti-corrosion coating
Finish :	Black powder coat
Compatible Shackle Size :	1/2-inch
Mechanical Limits[1]	
Safe Limit :	(15) VTX A6 | (11) VTX B15
Maximum :	(24) VTX A6 | (12) VTX B15
Dimensions (H x W x D)[2] :	87 mm x 509 mm x 518 mm (3.4 in x 20.0 in x 20.4 in)
Net Weight[3] :	5.3 kg (11.6 lbs)
Shipping Weight :	5.8 kg (12.9 lbs)

ORDERING INFORMATION	
SKU :	JBL-P3253MX | VTX A6 MF
Included :	(2) Side arms | (1) Spreader bar | (1) 1/2-inch Shackle #5118578

Footnotes:
1: Always check mechanical safety with JBL Line Array Calculator 3 software before use. For more information on Safe and Maximum Limits, refer to the **VTX A6 and VTX B15 Rigging Manuals**.
2: Refer to the 2D and 3D Customer Drawings for more detailed dimensions.
3: Weight includes spreader bar, extension bar, and laser bracket. Shackles and other rigging parts not included.

14.2 - VTX A6 SB



TECHNICAL SPECIFICATIONS

PHYSICAL

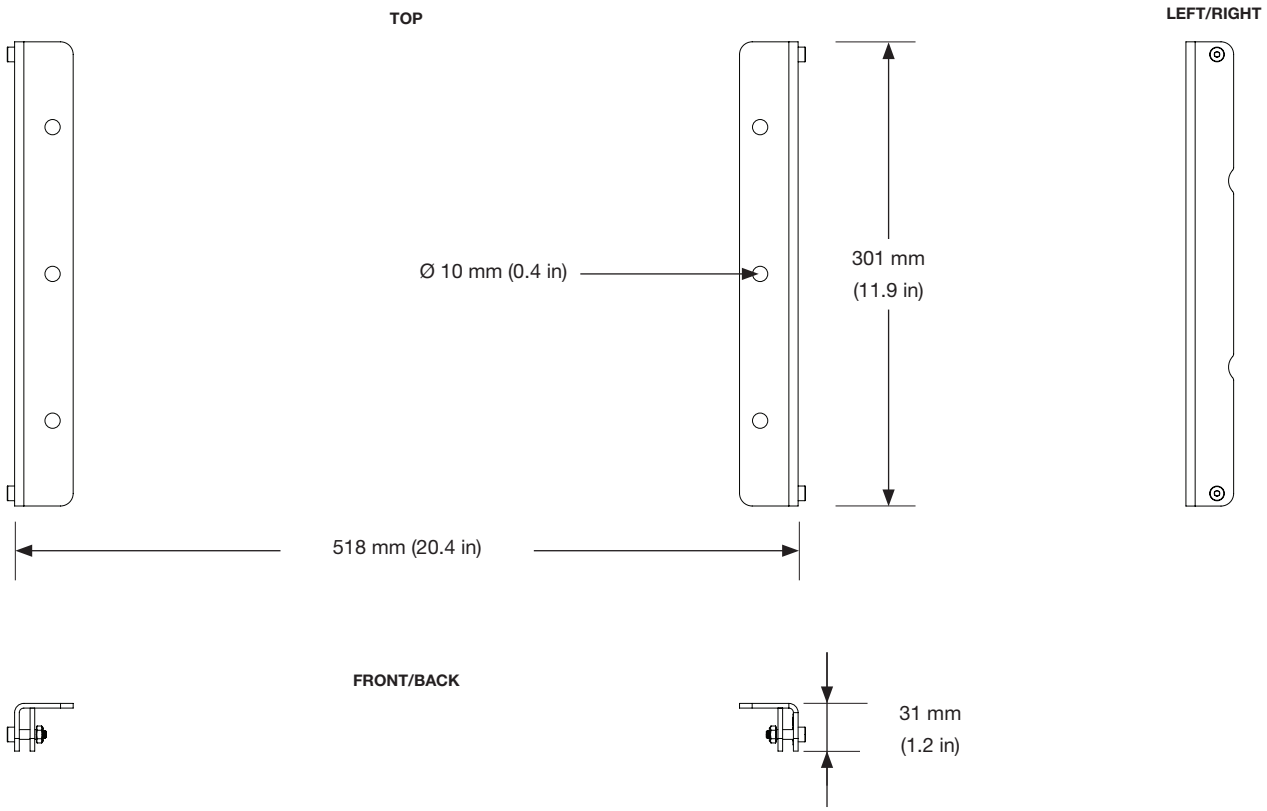
Construction :	High-grade steel with anti-corrosion coating
Finish :	Black powder coat
Compatible Shackle Size :	1/2-inch
Mechanical Limits[1]	
Safe Limit :	(16) VTX A6 | (10) VTX B15
Maximum :	(24) VTX A6 | (15) VTX B15
Dimensions (H x W x D)[2] :	60 mm x 518 mm x 66 mm (2.4 in x 20.4 in x 2.6 in)
Net Weight[3] :	1.7 kg (3.9 lbs)
Shipping Weight :	2.2 kg (4.8 lbs)

ORDERING INFORMATION

SKU :	JBL-P3254MX | VTX A6 SB
Included :	(1) Suspension bar | (1) 1/2-inch Shackle #5118578

Footnotes:
1: Always check mechanical safety with JBL Line Array Calculator 3 software before use. For more information on Safe and Maximum Limits, refer to the **VTX A6 and VTX B15 Rigging Manuals**.
2: Refer to the 2D and 3D Customer Drawings for more detailed dimensions.
3: Weight includes the suspension bar only. Shackles and other rigging parts not included.

14.3 - VTX A6 CM



TECHNICAL SPECIFICATIONS

PHYSICAL

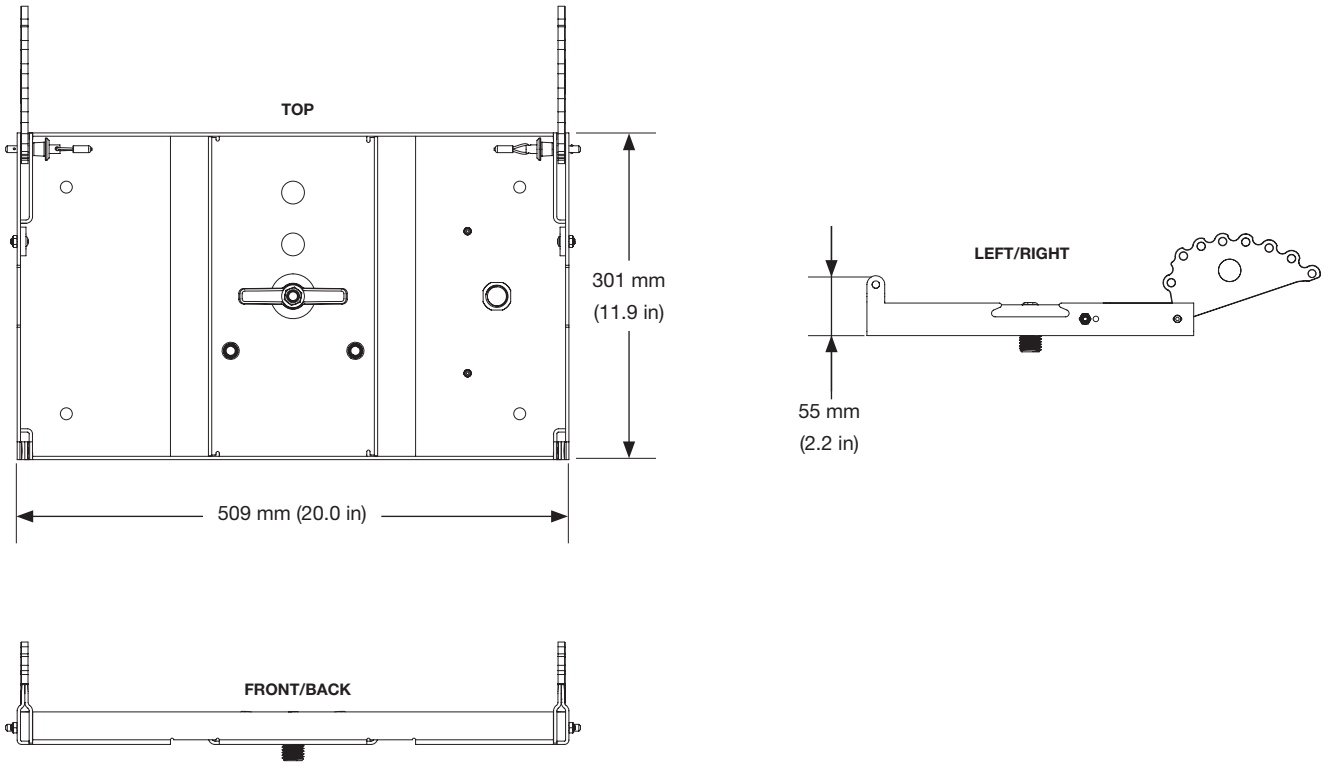
Construction :	High-grade steel with anti-corrosion coating
Finish :	Black powder coat
Mechanical Limits[1]	
Maximum :	(8) VTX A6 | (4) VTX B15
Safe Limit :	(8) VTX A6 | (4) VTX B15
Dimensions (H x W x D)[2] :	31 mm x 518 mm x 301 mm (1.2 in x 20.4 in x 11.9 in)
Net Weight :	1.0 kg (2.3 lbs)
Shipping Weight :	1.4 kg (3.1 lbs)

ORDERING INFORMATION

SKU :	JBL-P3287MX | VTX A6 CM
Included :	(2) Mounting Plates | (1) Drilling Template

Footnotes:
1: Always check mechanical safety with JBL Line Array Calculator 3 software before use. For more information on Safe and Maximum Limits, refer to the **VTX A6 Rigging Manual**.
2: Refer to the 2D and 3D Customer Drawings for more detailed dimensions.

14.4 - VTX A6 BP



TECHNICAL SPECIFICATIONS

PHYSICAL

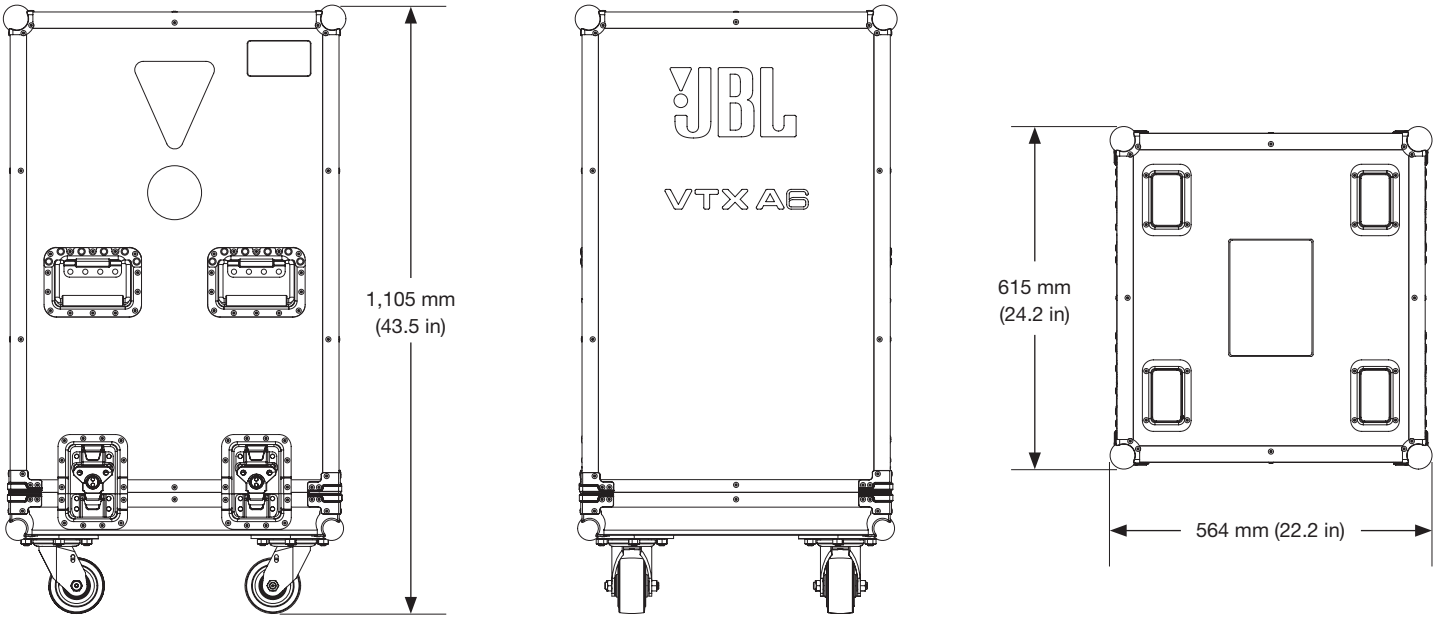
Construction :	High-grade steel with anti-corrosion coating
Finish :	Black powder coat
Mechanical Limits[1]	
Safe Limit :	(2) VTX A6
Maximum Limit :	(8) VTX A6
Dimensions (H x W x D)[2] :	55 mm x 509 mm x 301 mm (2.2 in x 20.0 in x 11.9 in)
Net Weight :	5.3 kg (11.6 lbs)
Shipping Weight :	6.3 kg (13.9 lbs)

ORDERING INFORMATION

SKU :	JBL-P3255MX | VTX A6 BP
Included :	(1) Base Plate | (2) Angle Plates | (1) M20 Knob # 5118612

Footnotes:
1: Always check mechanical safety with JBL Line Array Calculator 3 software before use. For more information on Safe and Maximum Limits, refer to the **VTX A6 Rigging Manual**.
2: Refer to the 2D and 3D Customer Drawings for more detailed dimensions.

15.5 - VTX A6 CASE



TECHNICAL SPECIFICATIONS

PHYSICAL

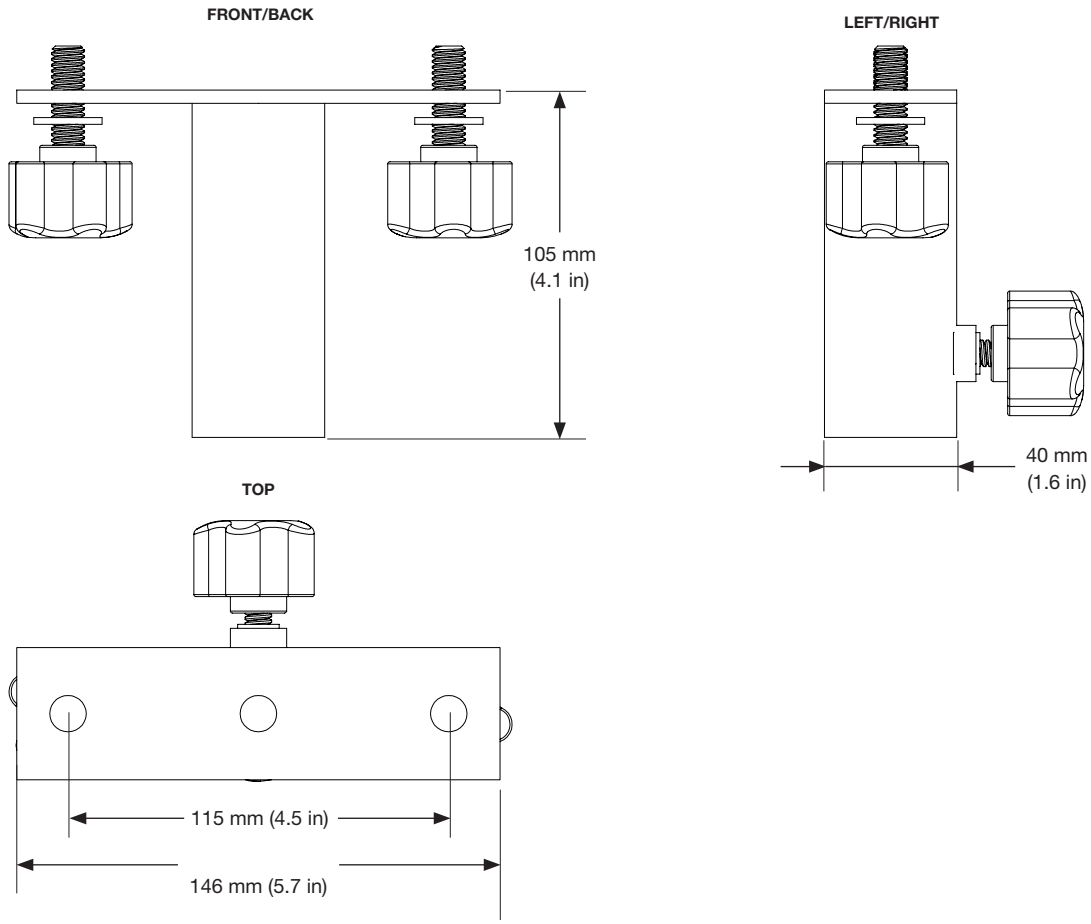
Construction :	9 mm, 25 mm exterior grade birch plywood, aluminum, high-grade steel with anti-corrosion coating
Finish :	Black DuraFlex™
Dimensions (H x W x D)[1] :	1,105 mm x 615 mm x 565 mm (43.5 in x 24.2 in x 22.2 in)
Net Weight[2]	
Case :	46.7 kg (103 lbs)
Case + (4) A6 :	130.2 kg (287 lbs)
Shipping Weight	
Case :	56.6 kg (124.7 lbs)
Case + (4) A6 :	140 kg (308.7 lbs)

ORDERING INFORMATION

SKU :	JBL-P3256MX | VTX A6 CASE
Included :	(1) Case
SKU :	JBL-P3319MX | VTX A6 CASE COMPLETE
Included :	(1) Case, (4) VTX A6

Footnotes:
1: Refer to the 2D and 3D Customer Drawings for more detailed dimensions.
2: Weight does not include any accessories.

14.6 - VTX PM



TECHNICAL SPECIFICATIONS

PHYSICAL

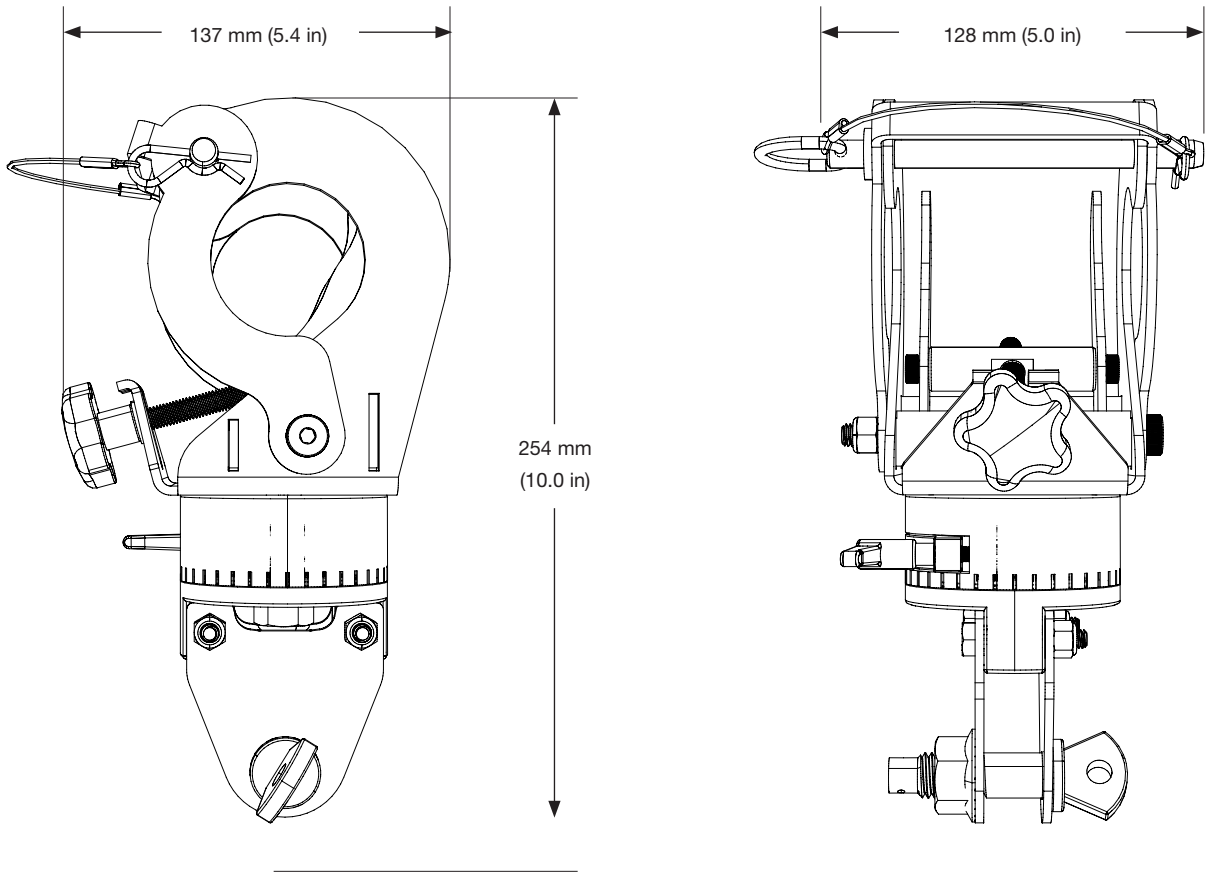
Construction :	Steel with anti-corrosion coating
Finish :	Black powder coat
Compatible Pole Size :	35 mm
Dimensions (H x W x D)[1] :	105 mm x 146 mm x 40 mm (4.1 in x 5.7 in x 1.6 in)
Net Weight : **Shipping Weight :**	0.5 kg (1.1 lbs) 0.8 kg (1.7 lbs)

ORDERING INFORMATION

SKU :	JBL-P3312MX | VTX PM
Included :	(1) Pole Mount Adapter | (1) M8 x 1.25 Comfort Grip Stud Knob # 5135715-00 | (2) M10 Washers #846-00410-08 (2) M10 x 1.5 Comfort Grip Stud Knob #5135851-00

Footnotes:
1: Refer to the 2D and 3D Customer Drawings for more detailed dimensions.

14.7 - VTX RC500



TECHNICAL SPECIFICATIONS

PHYSICAL	
Construction :	High-grade steel with anti-corrosion coating
Finish :	Black powder coat
Working Load Limit[2] :	500 kg (1,100 lbs)
Dimensions (H x W x D)[1] :	254 mm x 128 mm x 137 mm (10.0 in x 5.0 in x 5.4 in)
Net Weight[3] :	3.3 kg (7.3 lbs)

ORDERING INFORMATION	
SKU :	VTX-RC500
Included :	(1) RC500

Footnotes:

1: WLL refers to the RC500 only. Always make sure the structure the RC500 is attached to can support the weight of the array
2: Refer to the 2D and 3D Customer Drawings for more detailed dimensions
3: Weight includes VTX RC500 only

15 - CONTACT INFORMATION

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