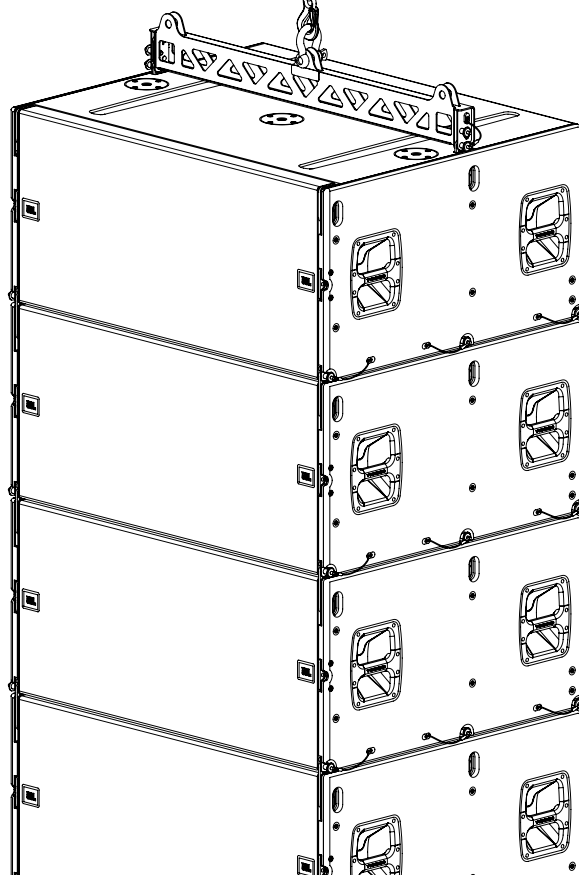


The JBL logo is displayed in white on an orange square background.

PROFESSIONAL

VTX SERIES
SYSTEM SOLUTIONS

VTX B35 | Rigging Manual



GENERAL INFORMATION

VTX B35 - Rigging Manual

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JBL PROFESSIONAL

8500 Balboa Blvd

Northridge, CA 91325

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.

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1 - DOCUMENT REVISION HISTORY

VERSION	RELEASE DATE	CHANGES
Version A	September 28, 2026	• Initial VTX B35 Rigging Manual

2 - SAFETY

2.1 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. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
7. Only use attachments/accessories specified by the manufacturer.
8. 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.
9. 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.
10. Contact JBL Professional for advanced servicing issues.
11. **CAUTION - Do not perform any servicing unless you are qualified to do so.**
12. 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.
13. Read the **VTX B35 User Manual** and **VTX A12 Rigging Manual** before installation and use of the products.

2.2 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.

2.3 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.

2.4 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, eye bolts, 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.

2.5 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.

2.6 INSPECTION AND MAINTENANCE

Suspension systems are comprised of mechanical devices and require regular inspection and routine maintenance to ensure proper functionality. Before suspending or pole mounting any speaker system, inspect all components, including enclosures, suspension frames or brackets, pins, and eyebolts, for cracks, deformation, corrosion, or missing, loose, or damaged parts that could reduce system strength or safety. Do not suspend or pole mount a speaker until any issues have been corrected.

Inspect all load-bearing surfaces for signs of cracking, water damage, delamination, or other conditions that may reduce the strength of the loudspeaker enclosure. Inspect suspension hardware for signs of fatigue, corrosion, bending, or other damage that may reduce its strength. Check eyebolts for possible spin-out of the enclosure.

Follow the inspection intervals and maintenance requirements in Section 13 - Product Care and Maintenance, or as required by local regulations. For all other hardware and fittings, follow the hardware manufacturer's inspection and maintenance guidelines.

Prior to suspending the system, all parts and components should be inspected by a trained and experienced person qualified in suspending loudspeaker systems.

JBL is not responsible for the application or misuse of its products or this information, including failure to comply with inspection and maintenance procedures.

2.7 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 potential tip hazard. Use caution when moving the cart/apparatus combination to avoid injury from tip-over.

2.8 PERSONAL PROTECTIVE EQUIPMENT (PPE)

Appropriate personal protective equipment (PPE) must be worn whenever installing, adjusting, or removing rigging hardware or loudspeakers. This includes, but is not limited to, safety helmets, protective footwear, gloves, and eye protection. PPE helps reduce the risk of injury from falling objects, sharp edges, pinch points, and other hazards commonly present during rigging operations. Always follow applicable local regulations, workplace safety requirements, and site-specific safety procedures when performing rigging tasks.



HEADWEAR: Protective headwear shall be worn.



FOOTWEAR: Protective footwear shall be worn.



GLOVES: Protective gloves shall be worn.



EYEWEAR: Protective eyewear shall be worn.



LIFTING: Practice safe lifting.

2.9 RESOURCES AND DOCUMENTATION

Several resources are available to VTX Series users to support the proper and safe use of the equipment. The following is an overview of each resource:

USER MANUAL: Covers the electromechanical aspects of the system, including amplification, wiring, speaker presets, tuning, and optimization. User Manuals do not include information about rigging or suspension hardware.

RIGGING MANUAL: Covers the mechanical aspects of the system, including step-by-step rigging instructions, accessory usage, mechanical limits, and safety requirements. **This document should be read by all users.**

SPECIFICATION SHEETS: Provide detailed specifications for loudspeakers and accessories, including acoustical performance, materials, weight, and general mechanical information. A Specification Sheet is available for each SKU.

CUSTOMER DRAWINGS: Include detailed drawings for each SKU, including dimensional 2D PDF and DXF files and simplified 3D DXF models. Depending on the product, additional 3D file formats may be available for download at www.jblpro.com.

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

3 - MECHANICAL LIMITS

The VTX Series rigging systems comply with the applicable requirements of Regulation (EU) 2023/1230 (Machinery Regulation) and have been designed following the design principles of DGUV Regulation 17, with a minimum design safety factor of 4:1. Minimum design safety factor requirements for suspended arrays may be specified by local regulations or applicable standards. Some jurisdictions or venues may require higher safety factors. Always check local regulations and applicable standards, and use JBL Venue Synthesis to verify mechanical limits.

3.1 SUSPENDED ARRAY

ACCESSORY	NOTES	SAFE LIMIT	MAXIMUM LIMIT
VTX A12 AF MKII	Non-mixed arrays using the VTX A12 AF MKII	(6)	(16)
VTX A12 SB	(1) Suspension Bar used as an array frame (top center)	(6)	(12)
VTX A12 SB (x2)	(2) Suspension Bars used at the top (center) and bottom (pull-back)	(6)	(12)

TERMINOLOGY:

Safe Limit: The safe limit defines the maximum number of cabinets that can be used in an array while maintaining a minimum design safety factor of 4:1. The safety factor of an array is determined by the number of cabinets, array shape, and overall array angle. An array constructed within the safe limit will maintain a safety factor of at least 4:1 for all allowable array configurations. Ground-stacked arrays within the safe limit are stable under normal operating conditions. Arrays exceeding the safe limit, but not exceeding the maximum limit, are permitted only when JBL Venue Synthesis software is used to verify the mechanical safety of the specific configuration.

Maximum Limit: The maximum limit defines the largest allowable array size. Arrays exceeding this limit are not permitted under any conditions.

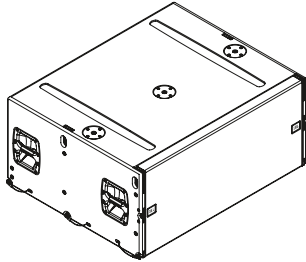
NOTES:

- Venue Synthesis allows array designs with a minimum design safety factor of 4:1. Designs below 4:1 are not permitted.
- Safe and maximum limits apply only to the specified accessory (e.g., base plate or array frame). When multiple accessories are combined—for example, a ground-stacked array using a base plate with subwoofers underneath—the complete configuration must be evaluated using Venue Synthesis.
- Safe and maximum limits for base plate accessories are specified for standalone use. Limits may differ when a base plate is attached to subwoofers or other structures.

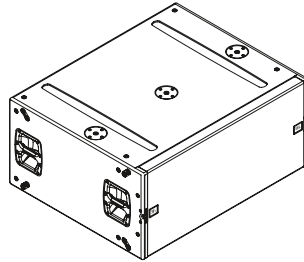


TIP: Declarations of Conformity (DoCs) for applicable products and accessories are available from www.jblpro.com. Refer to the relevant DoC for product-specific information on regulatory compliance and applicable standards.

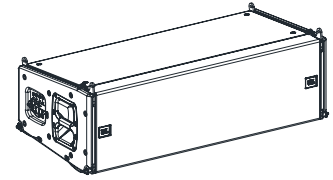
4 - SYSTEM COMPONENTS



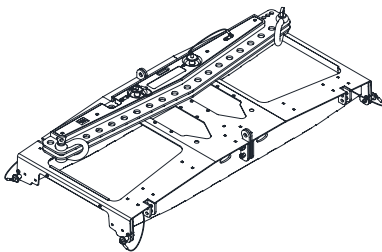
VTX B35



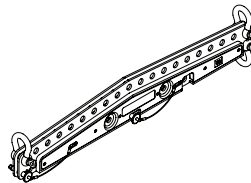
VTX B35G



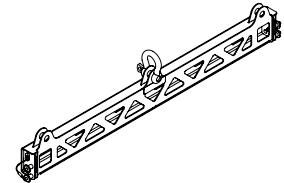
VTX A12



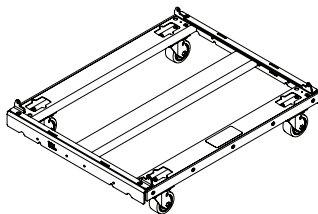
VTX A12 AF MKII | Array Frame



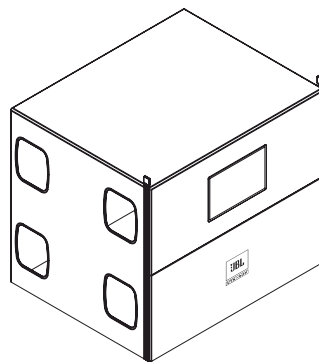
VTX A12 AF EB MKII | Extension Bar



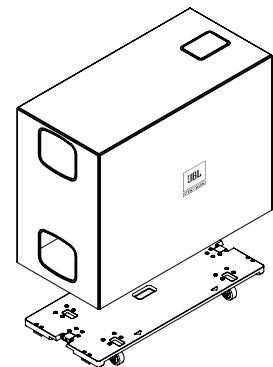
VTX A12 SB | Suspension Bar



VTX B35 VT | Vertical Transporter



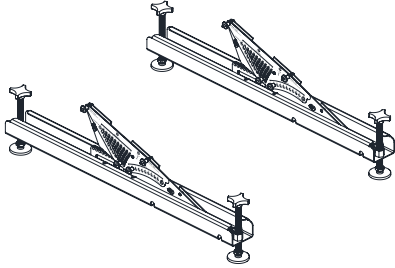
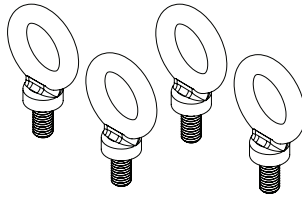
VTX B35 VT CVR | Soft Cover



VTX B35 ACC | Caster Board & Cover



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.

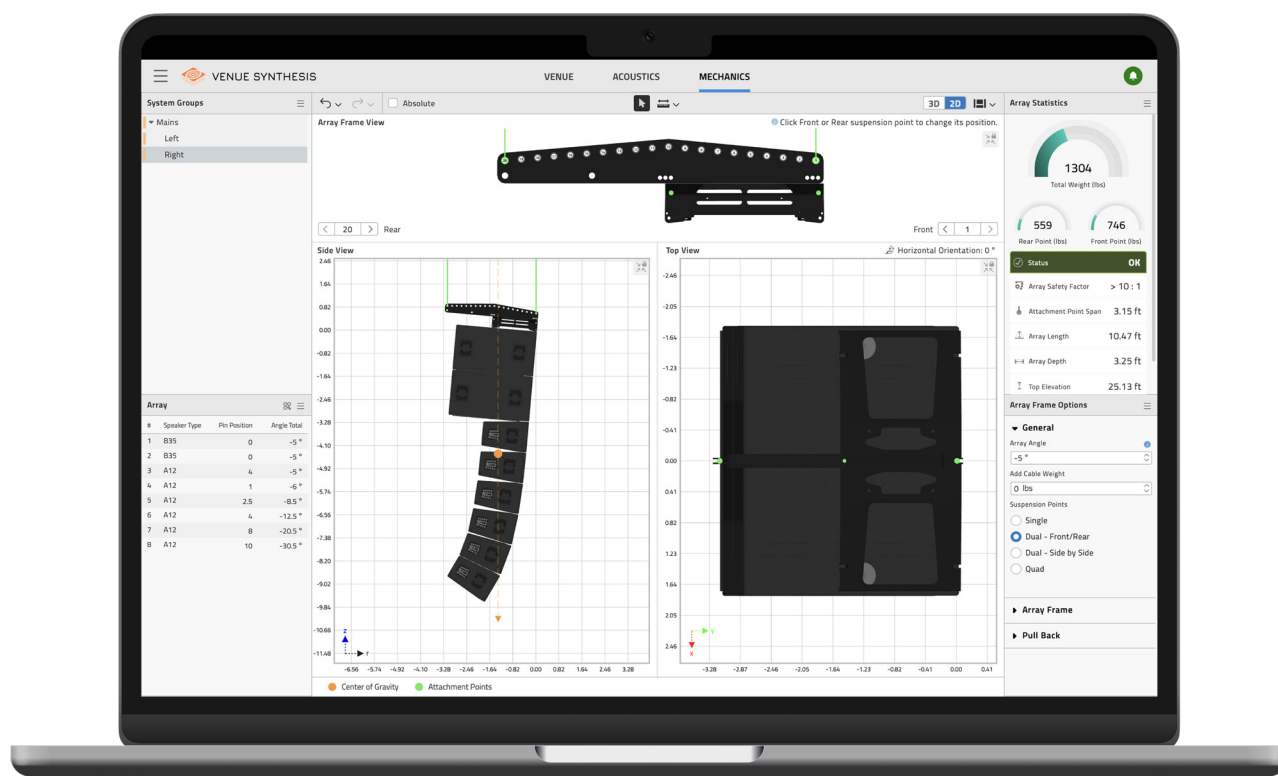
**VTX A12 VT GND****EBK4 M10-20 | Eyebolt Kit**

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.

5 - SOFTWARE

5.1 VENUE SYNTHESIS

Venue Synthesis is a 3D acoustic simulation software, designed to allow system designers and engineers to accurately predict the acoustical and mechanical performance of JBL sound systems. The software provides the ability to run three-dimensional acoustic predictions, simulate acoustic performance for complete systems, and validate mechanical configurations. The application has been designed from the ground up to take advantage of an improved acoustical and mechanical engine and offers ultra-realistic 2D and 3D graphics, featuring accurate renderings of physical rigging components.



Venue Synthesis 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 the 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 that exceed the Safe Limit defined in Section 3.1 must be validated using Venue Synthesis software, this is the only way to ensure that safe mechanical conditions are met for any given configuration.

5.2 SUSPENDED ARRAYS

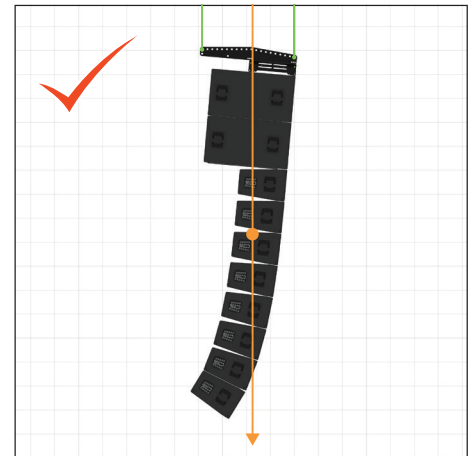
Venue Synthesis checks the mechanical safety of suspended arrays by analyzing the variables that affect loading and safety factors. The software evaluates the mechanical stresses on the enclosures, rigging components, and suspension accessories used in the array. Parameters such as array down angle and curvature are considered when determining the safety status and safety factor of the configuration. The reported array safety factor represents the lowest safety factor calculated for any component in the system.

✓ Status	OK
🛡️ Array Safety Factor	5.8 : 1

Status OK | Array Safety Factor OK

In this case, the array is stable under normal operating conditions and can be used as configured. The array also complies with the mechanical limits for the speakers and selected accessories. The status and notification icons are displayed in green.

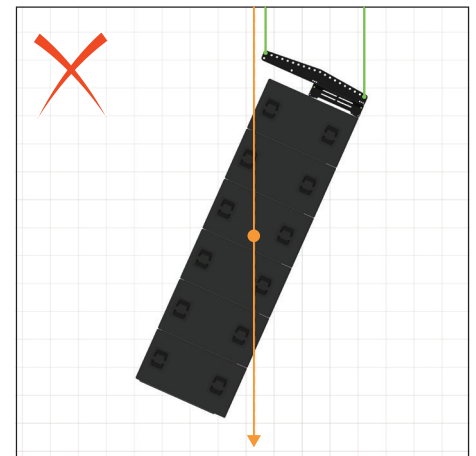
● Center of Gravity ● Suspension Points



⚠️ Status	Error
⚠️ Array Safety Factor	CoG Error

Status Error | Array Safety Factor CoG Error

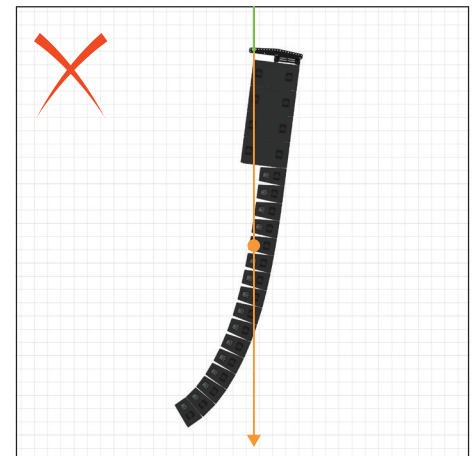
In this case, the center of gravity of the array falls outside the usable range of the selected suspension accessory. The array cannot be used as configured. This condition can sometimes be resolved by changing the suspension accessories or configuration. In this example, a pull-back can be used to provide a second suspension point.



⚠️ Status	Error
⚠️ Array Safety Factor	< 4 : 1

Status Error | Array Safety Factor < 4 : 1

In this case, the center of gravity is within the allowable range of the selected suspension accessory, but the resulting safety factor is below 4:1. Arrays with a safety factor below 4:1 must never be used. Correct this condition by reducing the number of cabinets, changing the suspension accessories, adjusting enclosure angles, or changing the overall array angle to reduce stress on the suspension hardware.



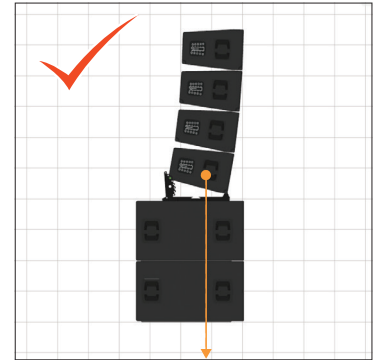
5.3 GROUND-STACKED ARRAYS

Venue Synthesis evaluates the mechanical safety of ground-stacked arrays by analyzing the factors that affect array stability, including external forces such as someone pushing on the array. Based on this analysis, the software determines the stability status and reports any mechanical or stability issues. Messages fall into the following categories:

✓ Status OK

No errors or messages

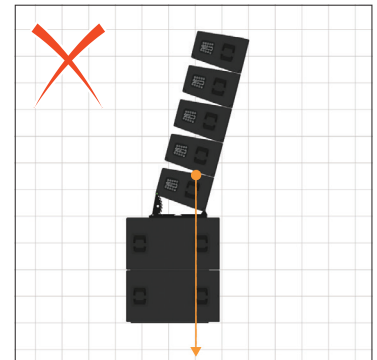
In this case, the array is stable under normal operating conditions and can be used as configured. The array also complies with the mechanical limits for the speakers and selected accessories. The status and notification icons are displayed in green.



⚠ Status Error

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

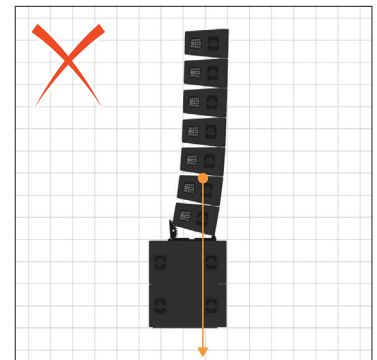
This warning indicates that the array may be unstable and at risk of tipping. Secure the array to the ground, stage, or another structure rated for its weight. Stability may also be affected by external forces, such as someone pushing on the array.



⚠ Status Error

Configuration exceeds the maximum number of boxes allowed

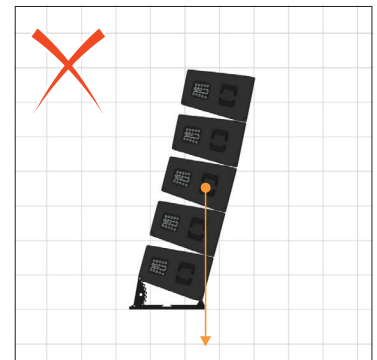
This message is displayed when the specified array design exceeds the mechanical limits of the speakers or selected accessories. Array designs that trigger this message must not be used under any conditions, as they may result in hardware damage and/or personal injury.



⚠ Status Error

Invalid CG Location

This message is displayed when the center of gravity of an array design exceeds the footprint of the selected accessory. Array designs that trigger this message must not be used under any conditions, as they may result in hardware damage and/or personal injury.

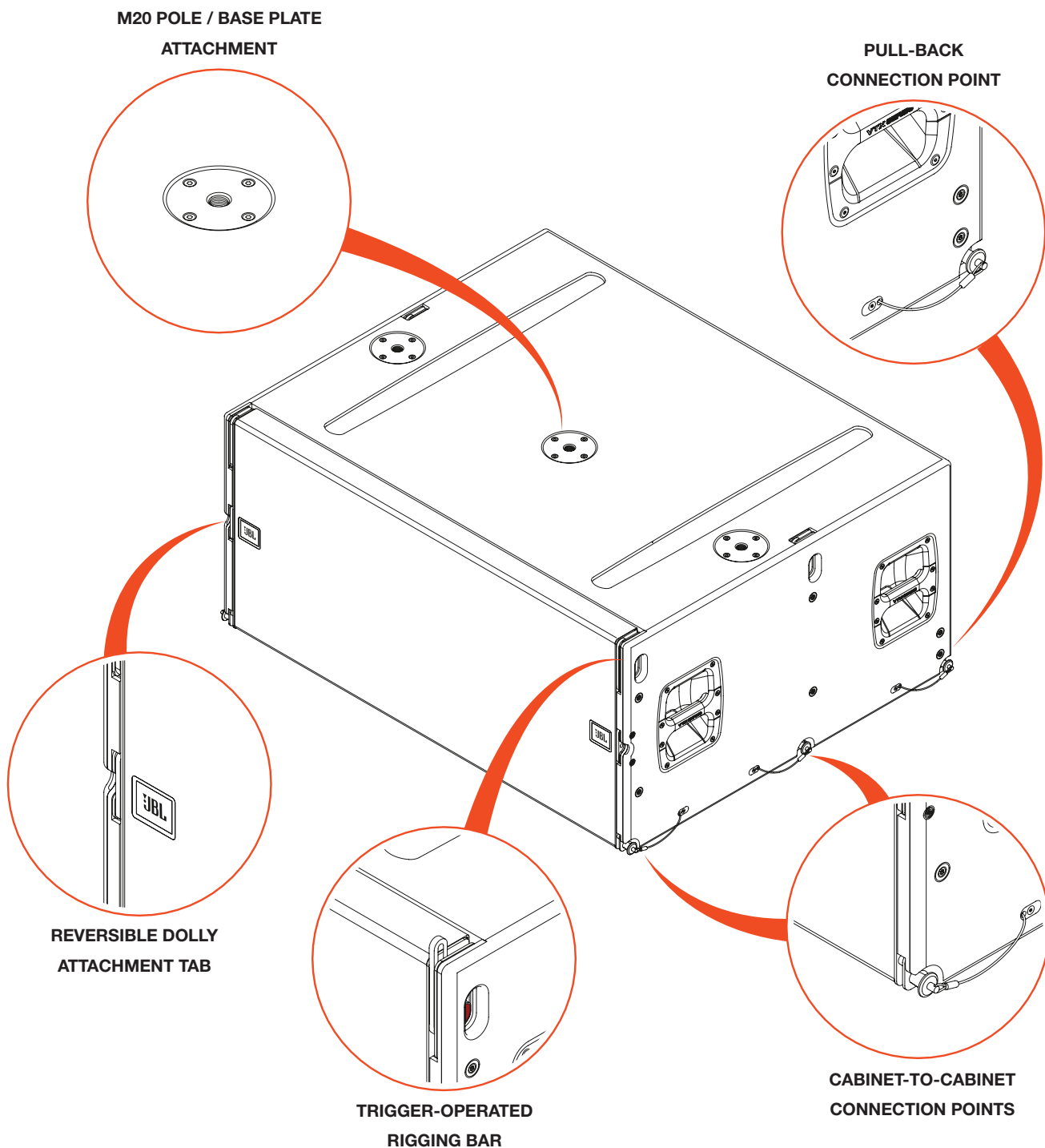


● Center of Gravity

6 - RIGGING SYSTEM

VTX B35 cabinets include a four-point, trigger-operated rigging mechanism that can be deployed to suspend up to 16 cabinets, depending on the configuration. The B35 rigging system enables standalone arrays or mixed arrays using A12 full-range cabinets suspended below VTX B35 subwoofers. Many A12 suspension accessories, such as the VTX A12 AF MKII and VTX A12 SB, are compatible with the B35. When used in ground-stacked configurations, the spring-loaded rigging mechanism maintains tension between components, helping minimize movement and vibration-related noise.

6.1 RIGGING CLOSEUP

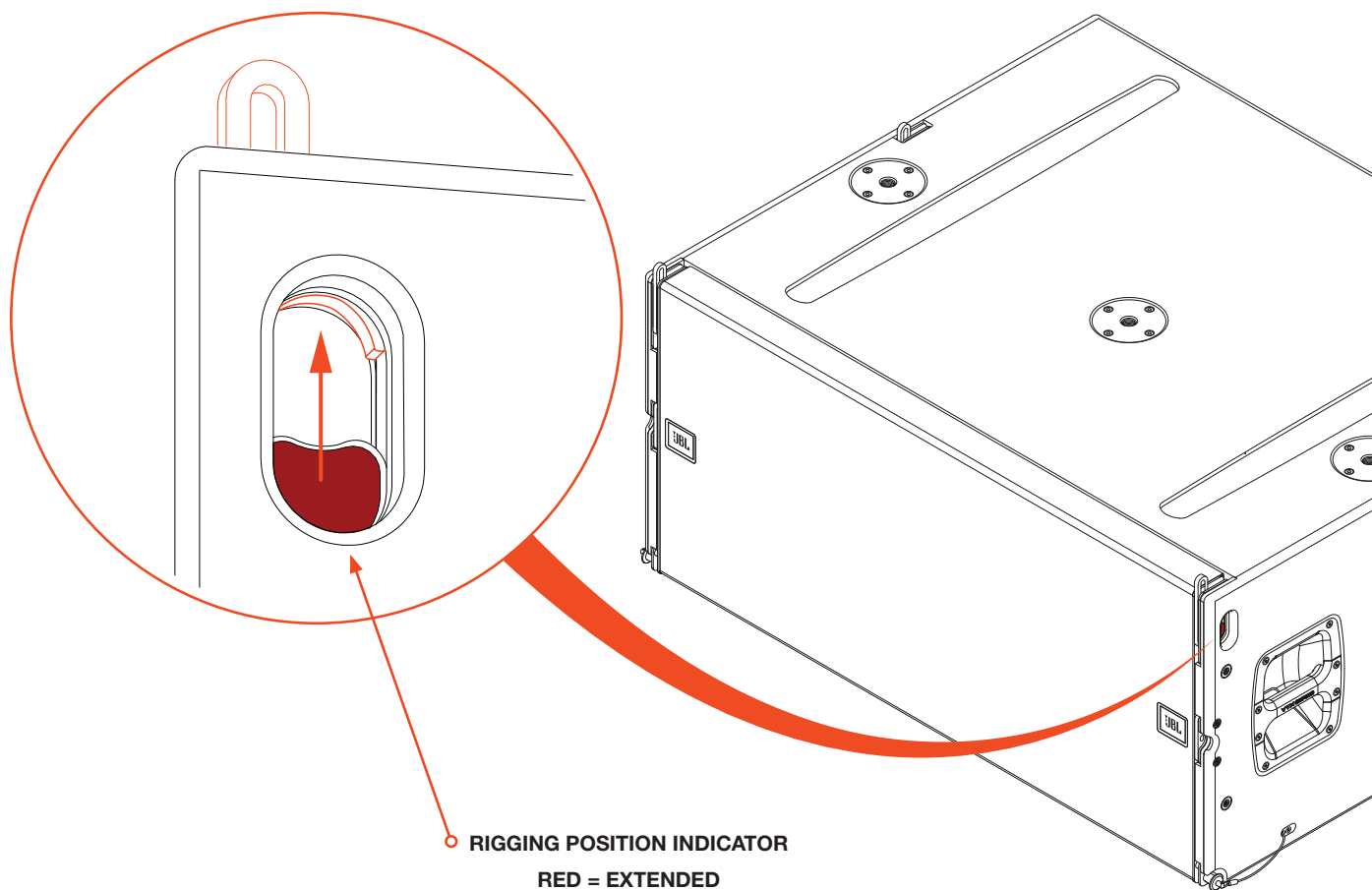


6.2 RIGGING MECHANISM

Each of the four B35 Rigging Bars incorporates a trigger-operated, spring-loaded mechanism. Rigging Bars automatically extend upward when the user releases the captive trigger located within the recess below the Rigging Bar. Once extended, a **RED** indicator is visible to confirm that the Rigging Bar is in the extended position. This provides visual confirmation when multiple B35 cabinets are arrayed together and the Rigging Bars may not be fully visible.

STEPS:

- 1 Release the captive trigger located below each Rigging Bar by pressing upward within the recess.
- 2 The Rigging Bar automatically extends upward.

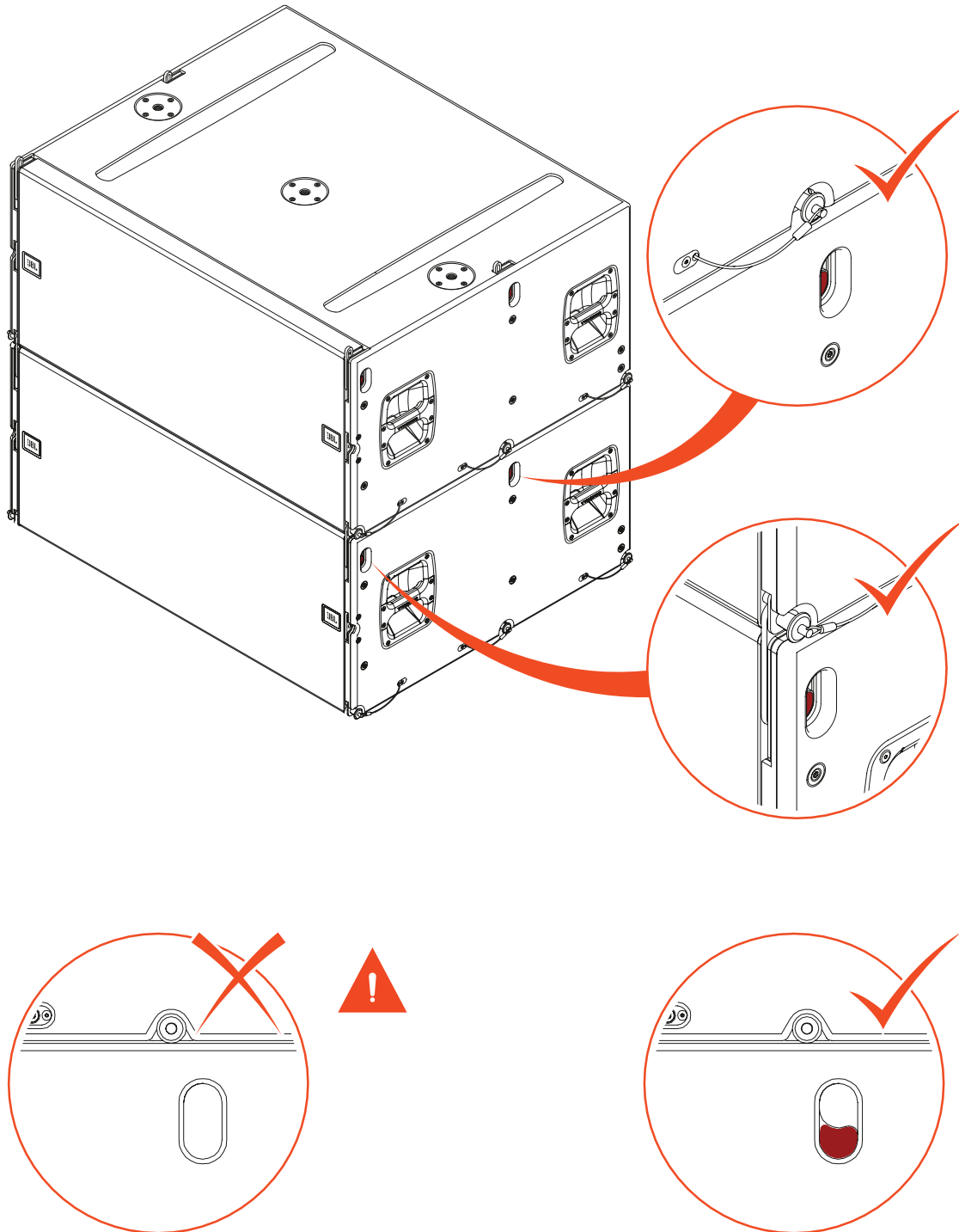


CAUTION: When connecting B35 cabinets together in suspended configurations, all Rigging Bars must be extended and secured. Look for the **RED** indicators to verify the Rigging Bars are fully extended.



PINCH HAZARD: Insert only one finger into the trigger recess to deploy the Rigging Bar. Inserting multiple fingers may create a pinch hazard.

When suspending multiple B35 cabinets together, all four B35 rigging points (two per side) should be used for each B35. Each rigging point uses one Quick Release Pin (QRP), as illustrated below. The lower rear attachment point on each cabinet is only used to connect a pullback and will remain unused when connecting two B35 cabinets together. Before suspending the array, verify that all QRPs are fully seated and locked in position. Check each QRP by pulling on the pin to confirm that it is properly engaged.

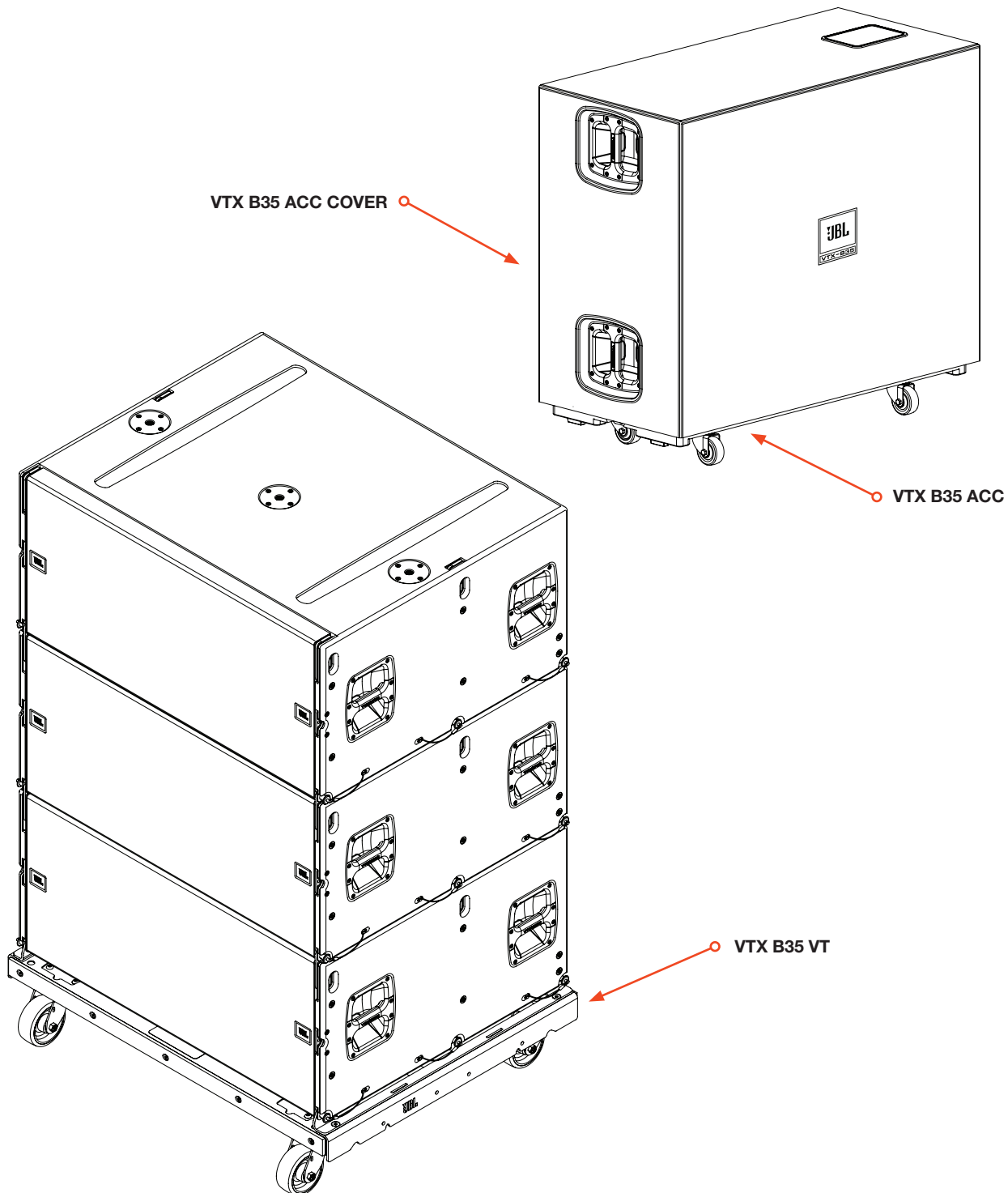


CAUTION: All used Rigging Bars should have the RED rigging indicators showing. Verify that all QRPs are fully seated and properly engaged before suspending the array.

7 - TRANSPORTATION

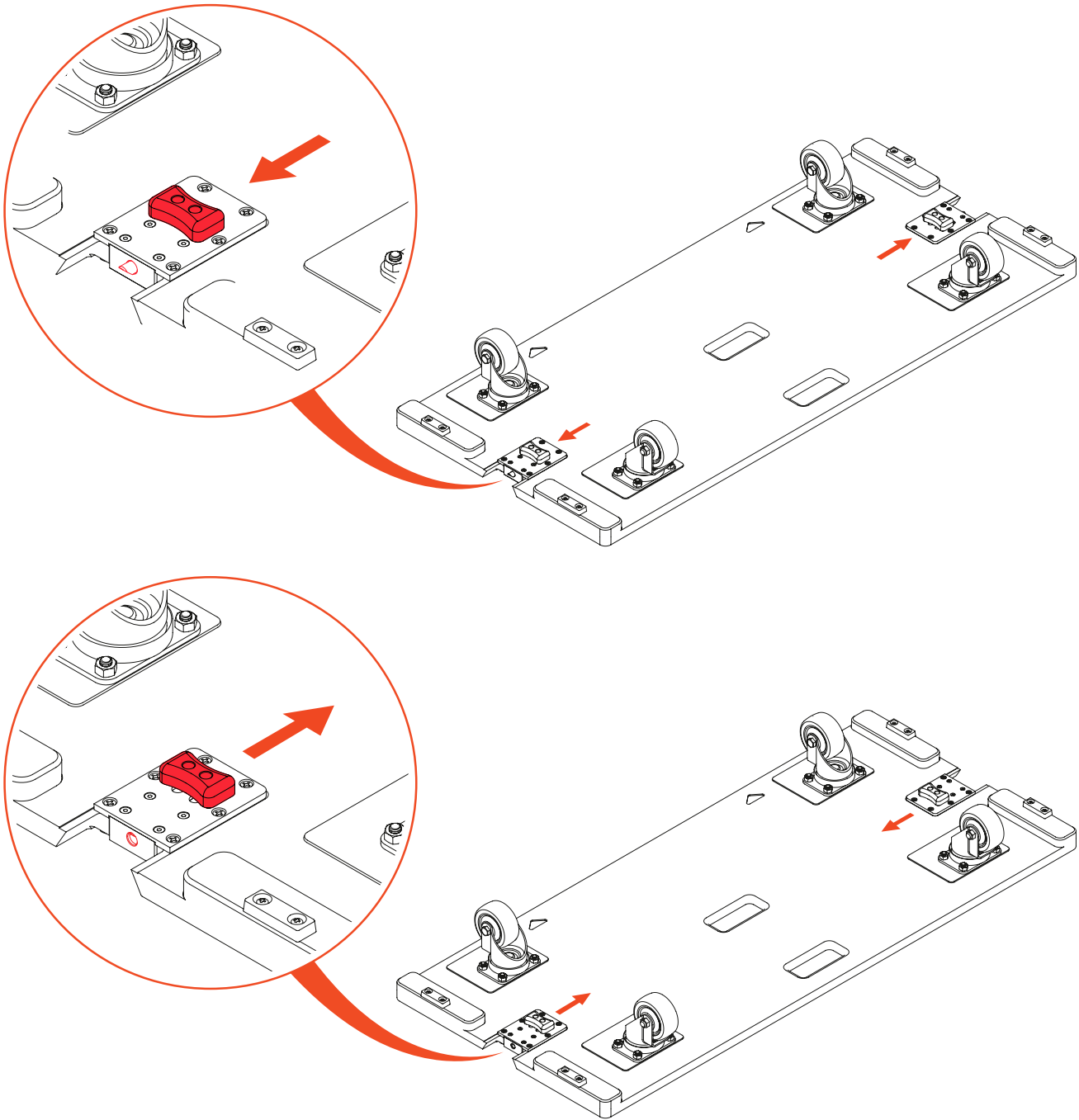
The B35 has two transportation options. For single enclosures, the B35 ACC (Accessory Caster Board and Cover) includes a grille-side caster board and protective cover for efficient transport and truck packing.

For transporting multiple B35 cabinets pre-stacked vertically, the B35 VT connects directly to the cabinet rigging hardware. Swappable corners and an included ratchet strap allow the VT to also transport B35G cabinets. A protective cover is also available.



7.1 CASTERBOARD OVERVIEW

The VTX B35 ACC caster board features two spring-loaded sliding pin locks (one on each side) used to attach the caster board to the B35 cabinet. The caster board rests on the B35 mounting tabs and is secured by the spring-loaded pins.



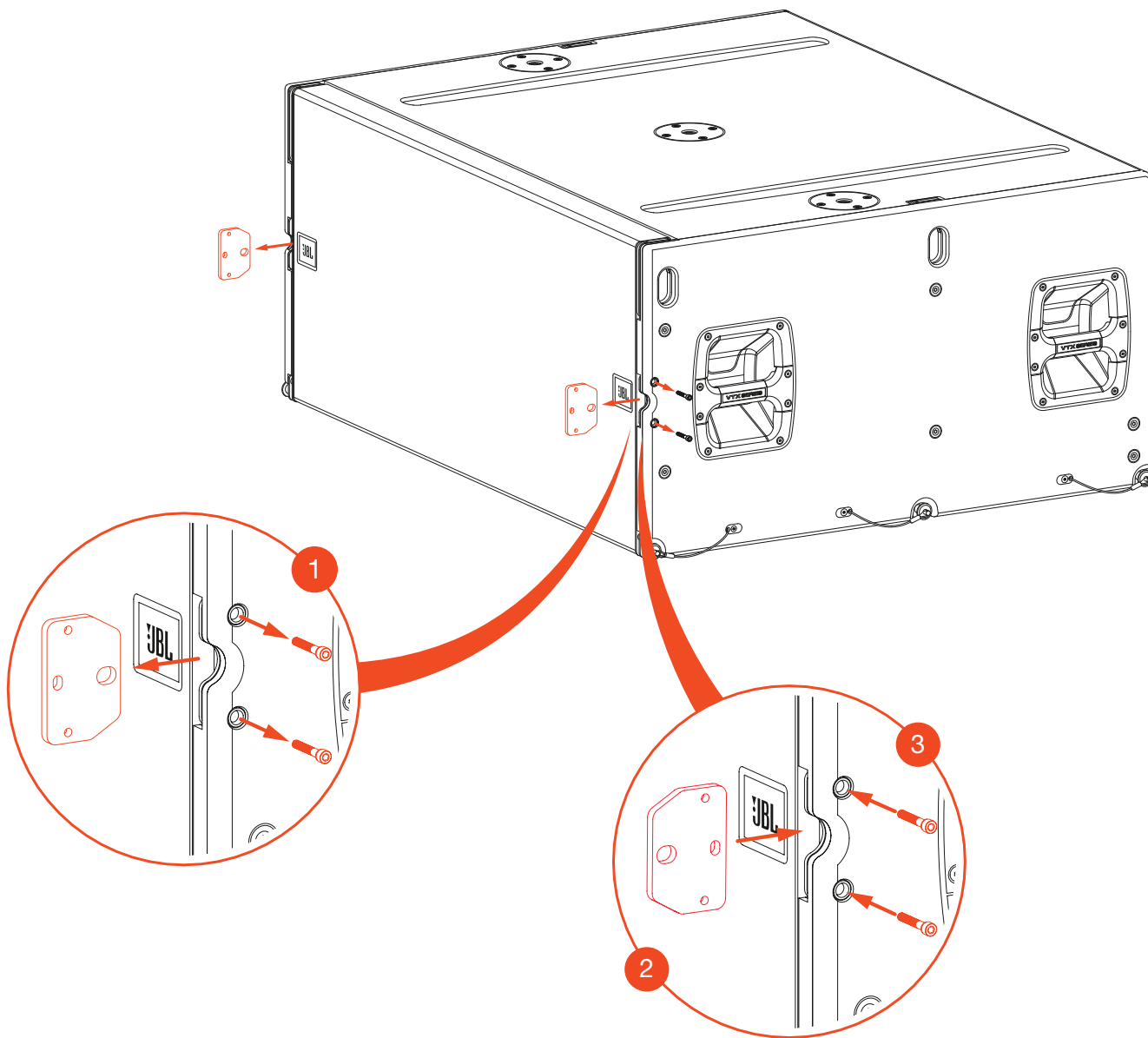
TIP: The beveled edge on the pin allows the caster board to be attached with a firm push, eliminating the need to pull back the handle on the spring-loaded pin.

7.2 CASTER BOARD MOUNTING TABS

The two caster board tabs located at the front of the B35 are used to secure the ACC caster board to the B35. The tabs are retractable and ship from the factory in the retracted position inside the B35. The tabs should remain in the retracted position when the ACC caster board is not required, such as in permanent installations, or when the B35 is used with the VTX B35 VT Vertical Transporter accessory. The tabs must be rotated to the extended position before attaching the ACC caster board to the B35.

STEPS:

- 1 Remove the two Torx T25 bolts holding each bracket onto the B35.
- 2 Rotate the bracket to the extended position.
- 3 Re-install the bolts.

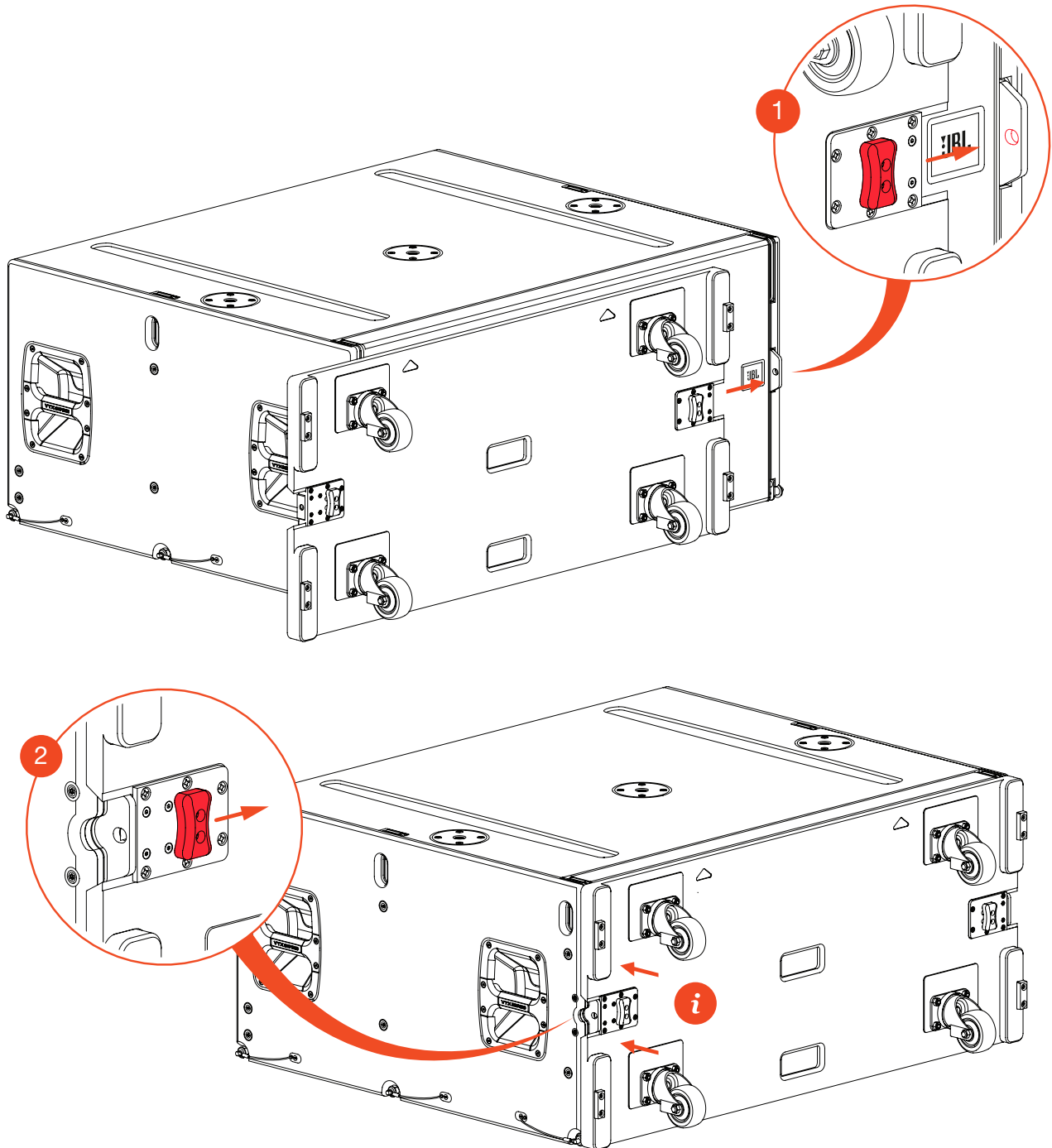


TOOLS REQUIRED: A Torx T25 wrench is required to remove the four bolts securing the ACC brackets. All bolts should be torqued to 2.82 N·m (25 in-lbs).

7.3 CASTER BOARD INSTALLATION

STEPS:

- 1 Slide one of the ACC caster board mounting pins into one of the mounting tabs on the front of the B35 cabinet.
- 2 Pull back the handle on the opposite pin mechanism, push the caster board into position on the mounting tab, and release the handle to engage the pin.



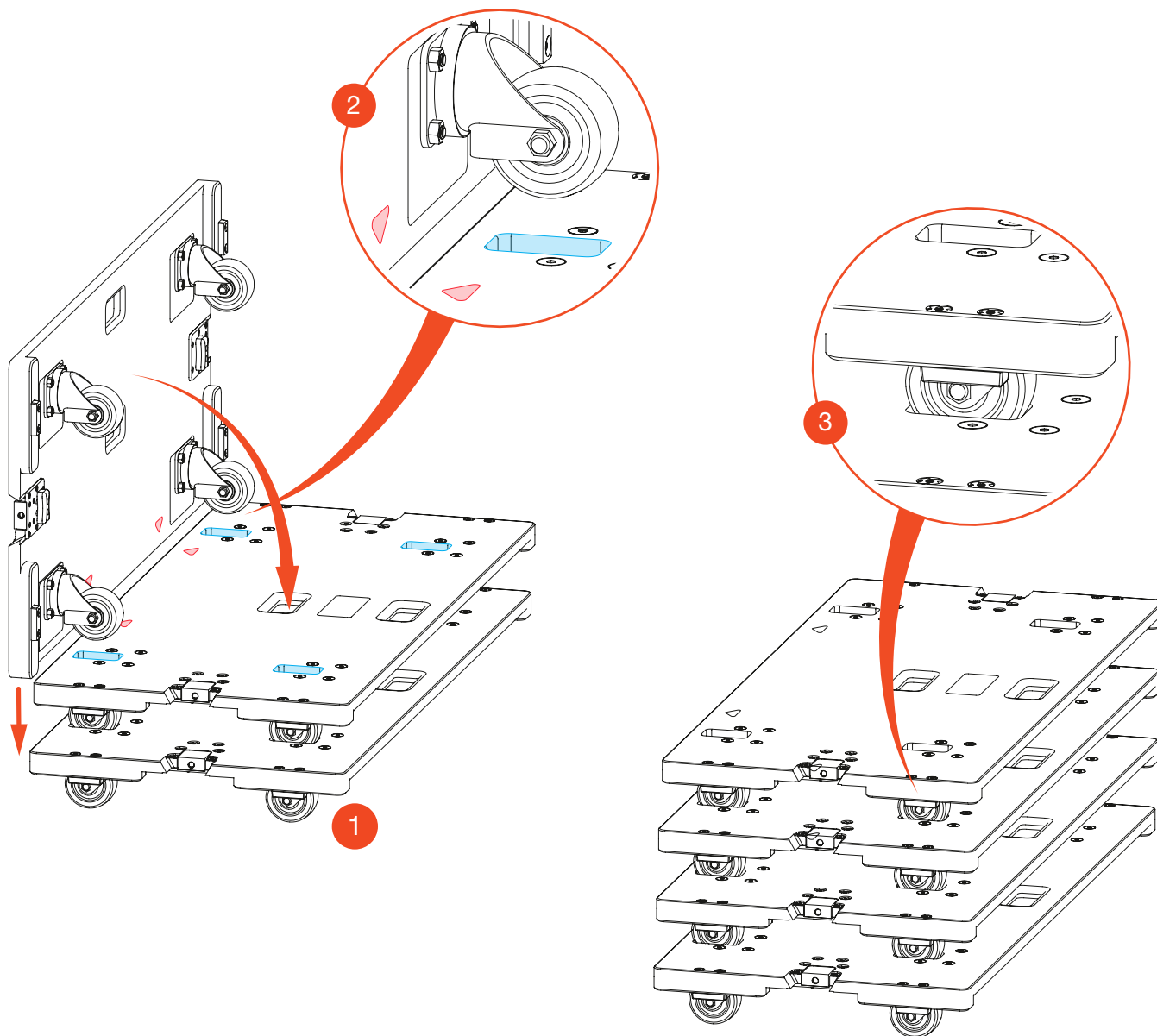
TIP: The beveled edge on the pin allows the caster board to be attached with a firm push, eliminating the need to pull back the handle on the spring-loaded pin.

7.4 STACKING CASTER BOARDS

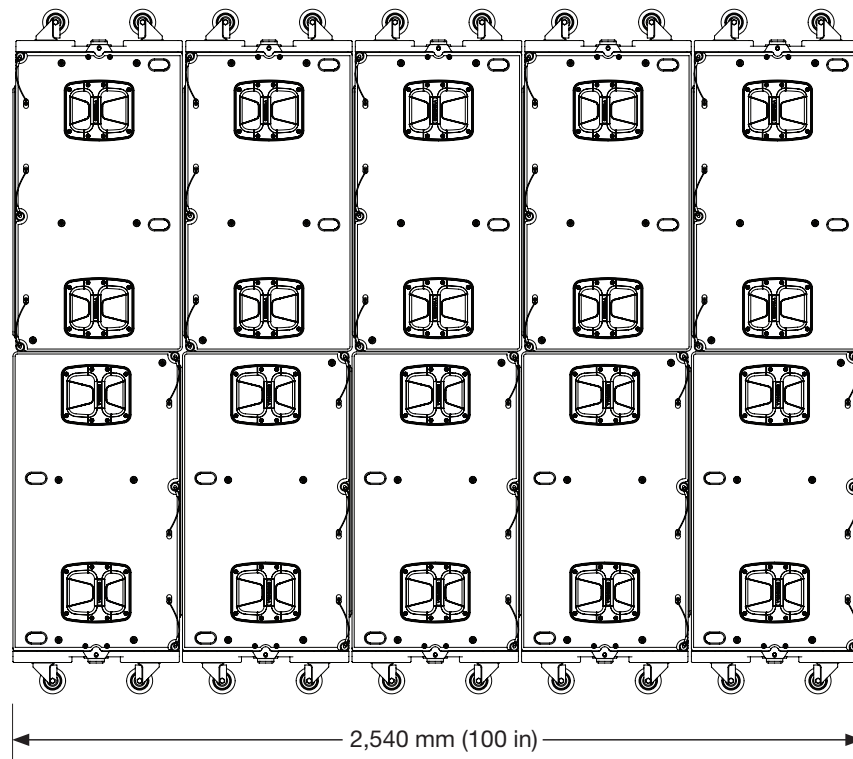
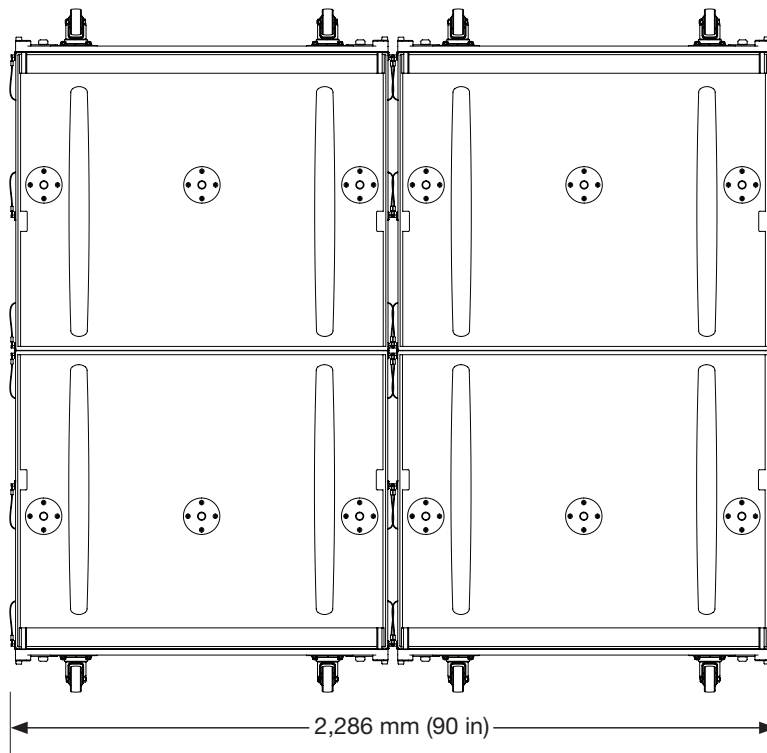
VTX B35 ACC caster boards can be stacked together for storage. The caster board handles and wheels are designed to allow stacking without manually rotating the wheels. When the ACC is held by the handle near its edge, gravity positions the wheels downward. Alignment arrows are located near one edge on both the top and bottom of the ACC to identify the correct orientation. To stack two ACC caster boards, align the orientation arrows on the mating surfaces, then lower the upper caster board into position.

STEPS:

- 1 Place the first ACC caster board on the ground.
- 2 Hold the second ACC caster board vertically by the handle. Use the orientation arrows to align the lower wheels with the corresponding wheel wells.
- 3 Lower the ACC caster board into position, seating the upper wheels into the remaining wheel wells.



7.5 CASTER BOARD TRUCK PACKING



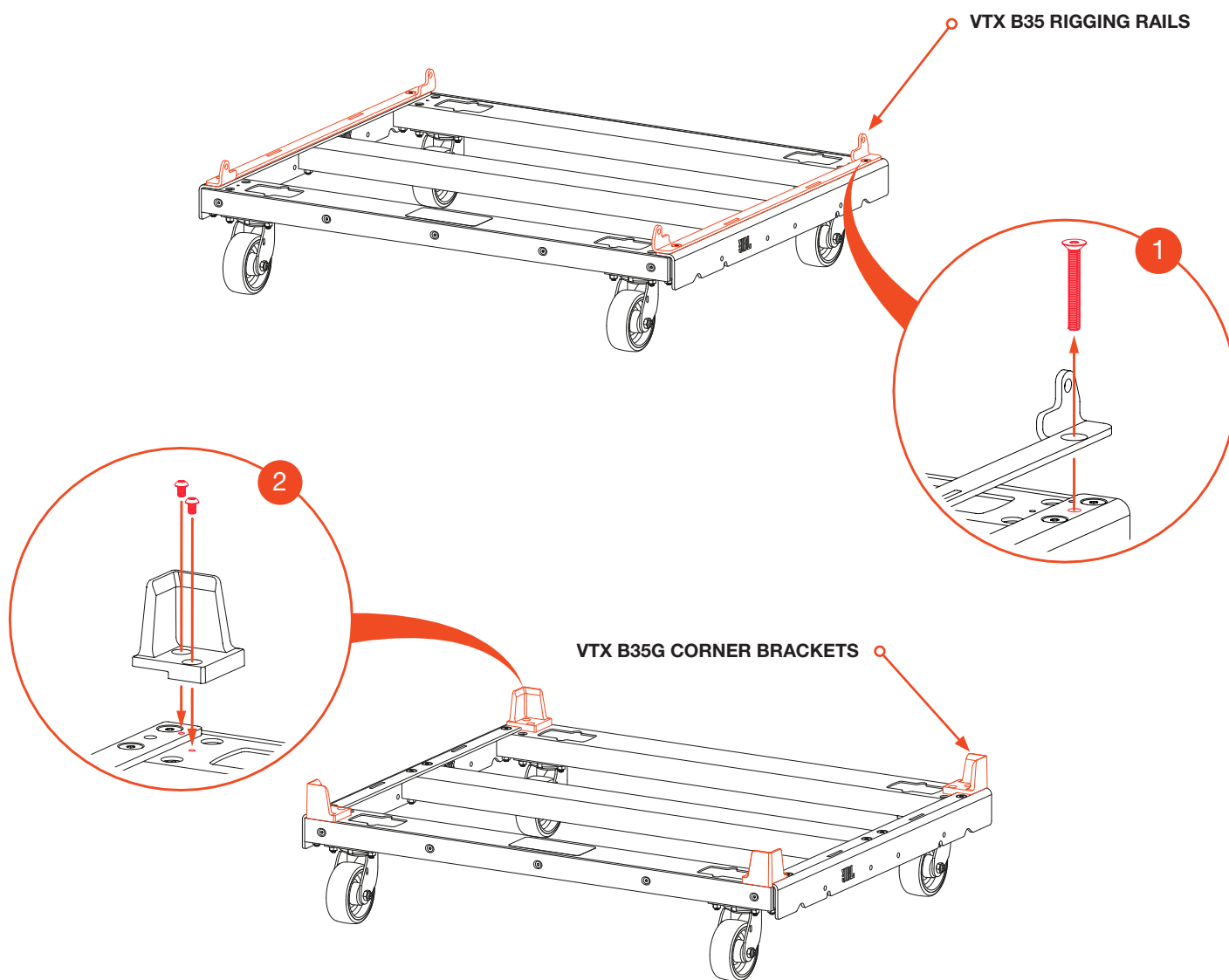
7.6 CONFIGURING THE B35 VT

The B35 VT can transport VTX B35 and B35G subwoofers in stacks of two, three, or four cabinets. Because the two models use different rigging hardware, the VT must be configured for the specific cabinet model being transported.

The VT ships from the factory configured for VTX B35 cabinets. When used with B35G cabinets, the rigging rails must be removed and the B35G corner brackets must be installed before loading the cabinets.

STEPS:

- 1 Remove the two bolts and nuts securing each of the two rigging rails to the VT frame.
- 2 Install the four B35G corner brackets using two screws each, securing them into the corresponding tapped holes on the VT frame.



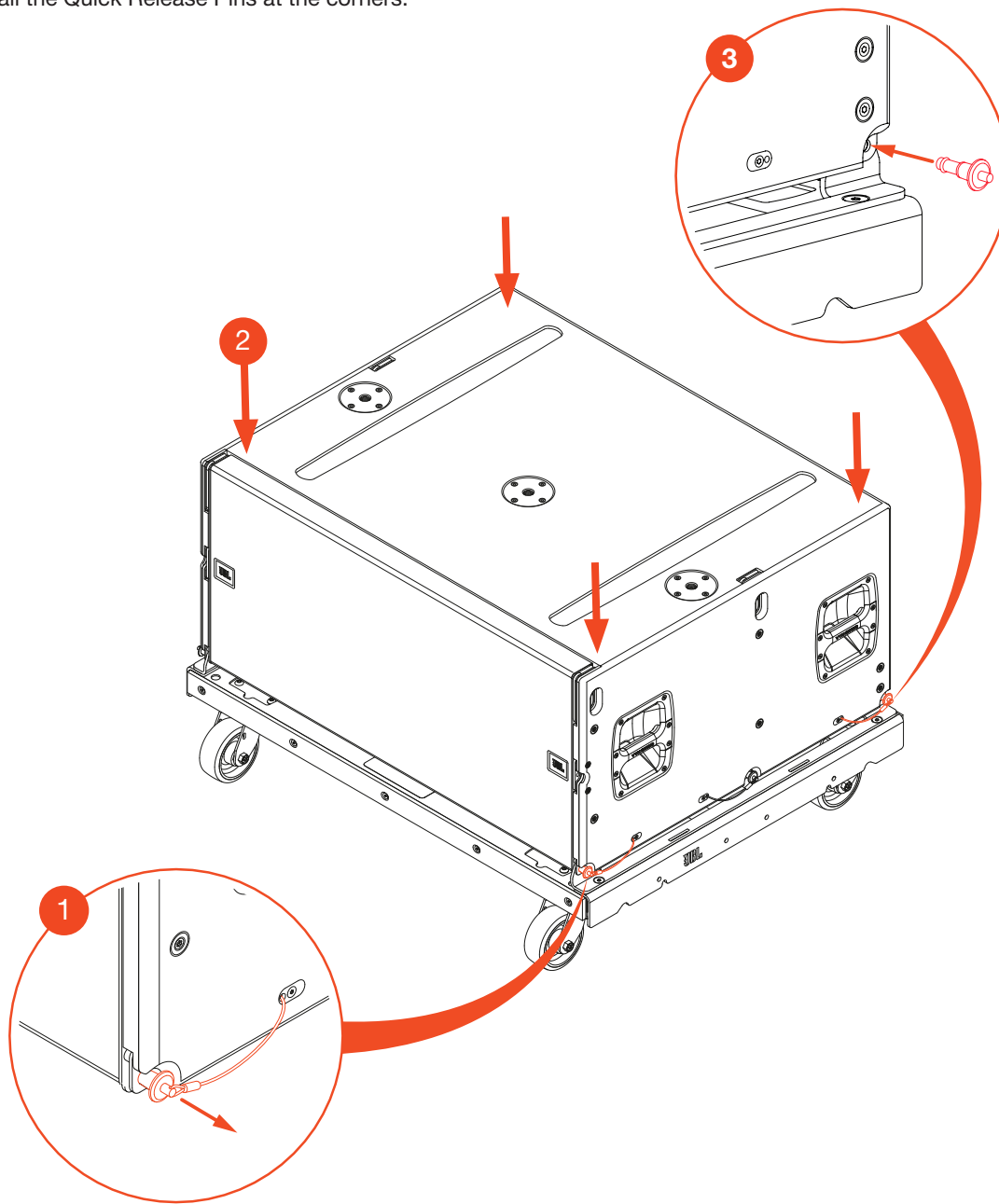
TOOLS REQUIRED: A 6 mm hex key and either a 15 mm socket or wrench are required to remove the four VTX B35 Rigging Rail bolts. A 4 mm hex key is required to install the B35G Corner Brackets.

7.7 INSTALLING VTX B35 CABINETS ON A VT

To install VTX B35 cabinets on the VTX B35 VT Vertical Transporter, follow the instructions below. Up to four B35 cabinets can be transported on a single VT.

STEPS:

- 1 Remove the Quick Release Pins at the four corners of the B35 cabinet.
- 2 Lower the B35 cabinet onto the VT and ensure that all corners are aligned.
- 3 Reinstall the Quick Release Pins at the corners.

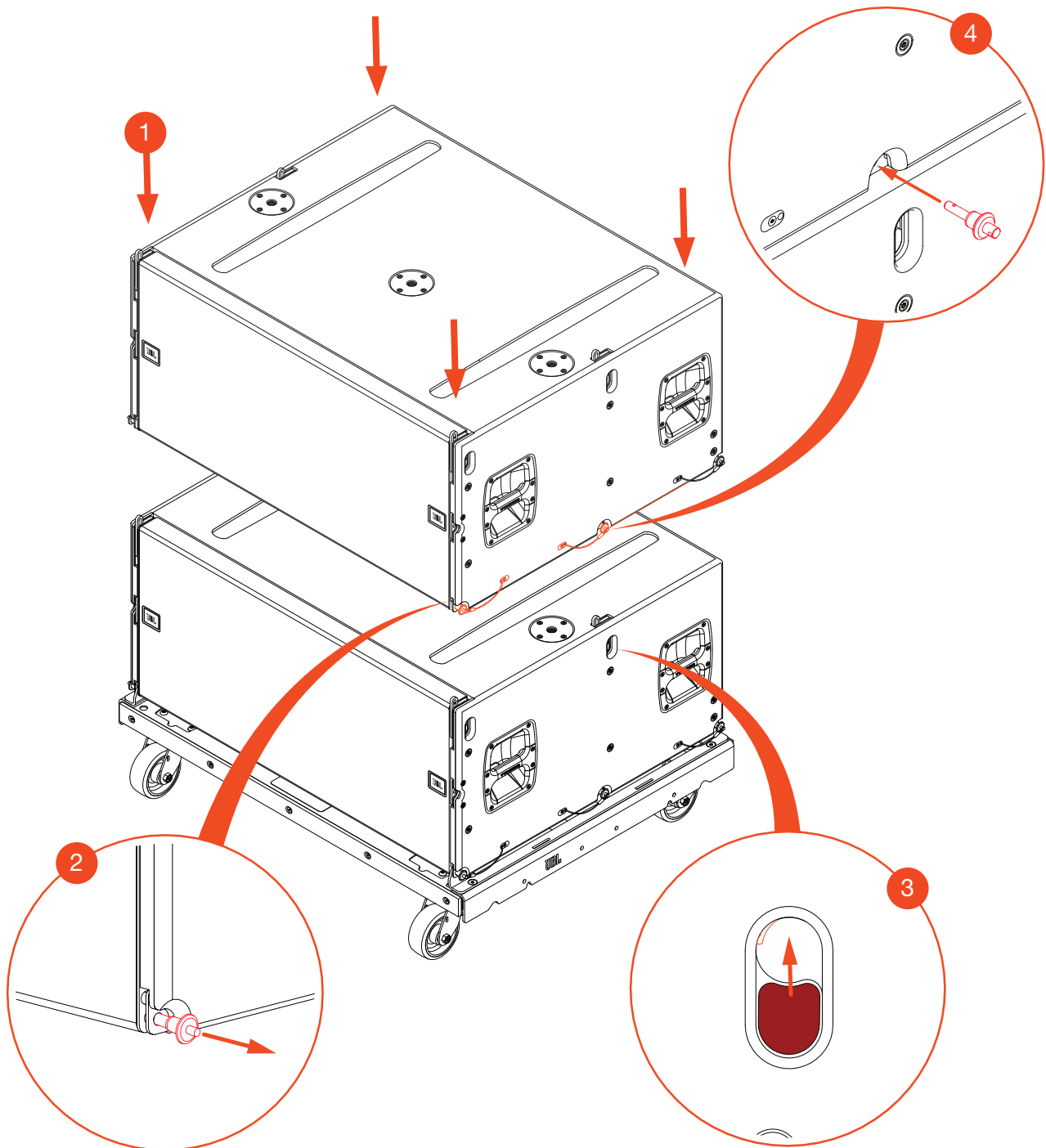


TIP: In this configuration, the two Quick Release Pins at the center of the B35 are not used. The VT attaches to the B35 using only the four corner attachment points.

Continue with the following steps to stack additional VTX B35 cabinets onto the VT.

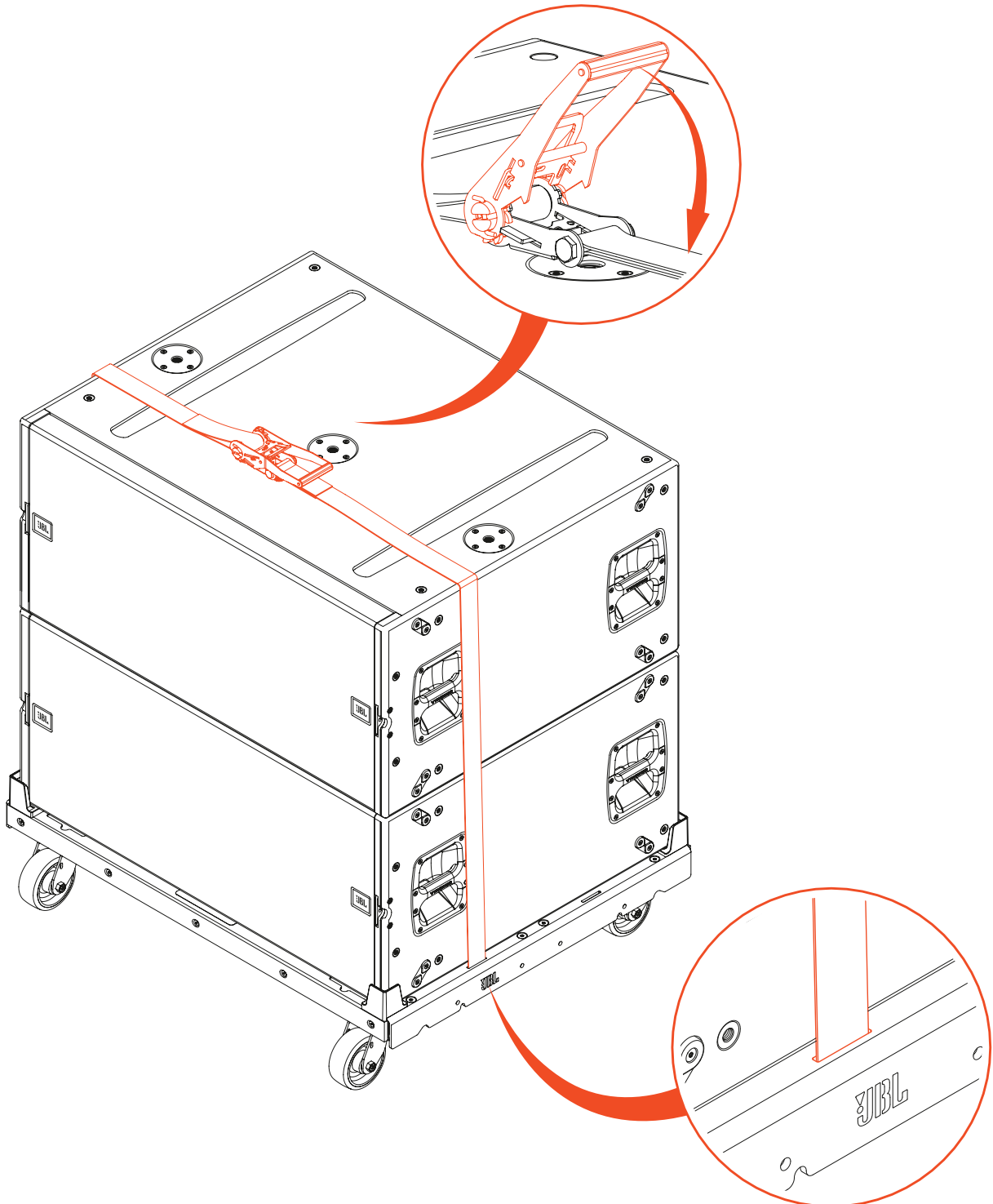
STEPS:

- 1 Carefully lower the upper VTX B35 cabinet onto the lower VTX B35 cabinet.
- 2 Remove the front and middle Quick Release Pins from the upper B35.
- 3 Deploy the four Rigging Bars on the lower VTX B35 cabinet.
- 4 Reinstall the four Quick Release Pins into the upper VTX B35 cabinet.



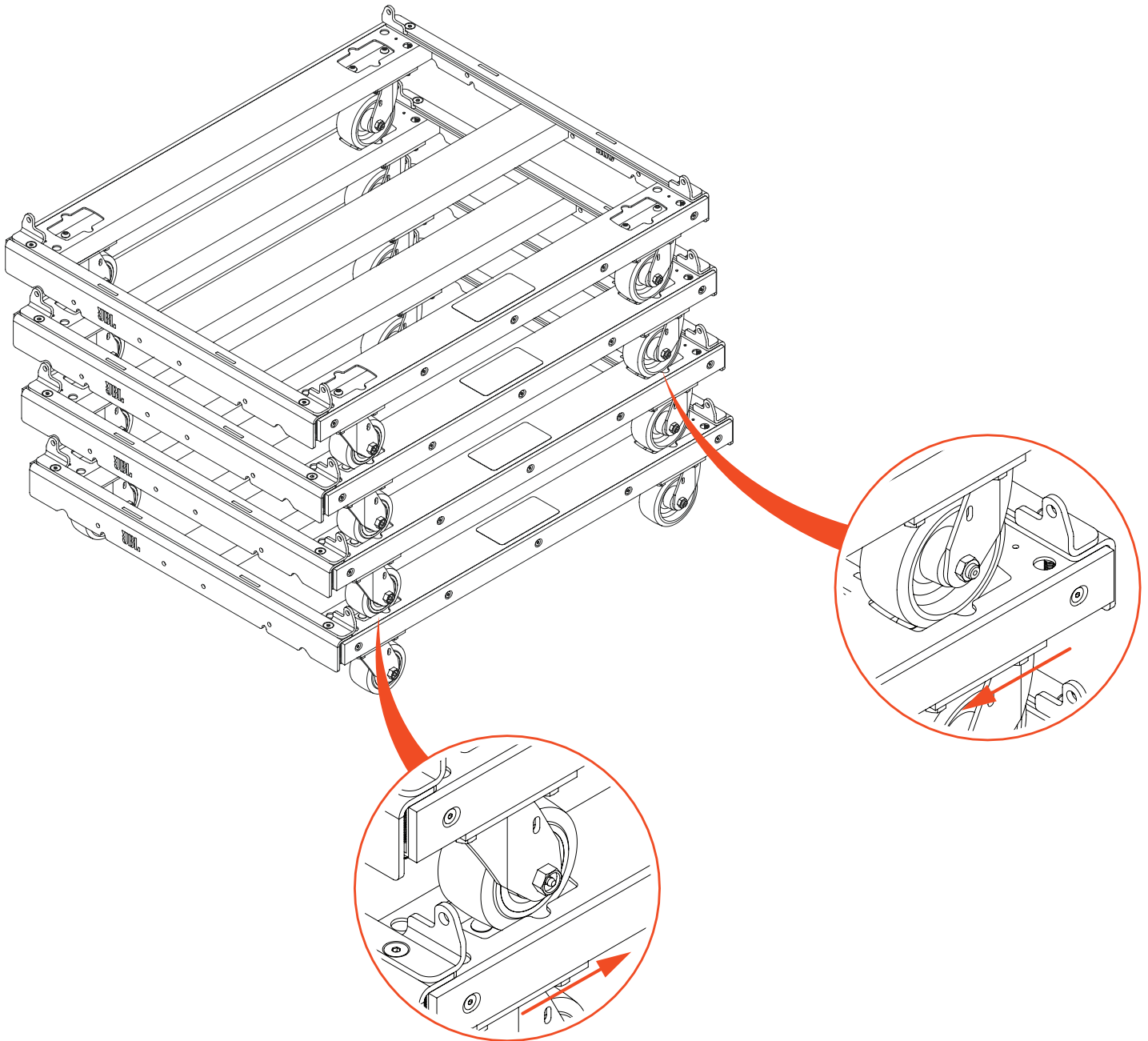
7.8 INSTALLING VTX B35G CABINETS ON A VT

To install VTX B35G cabinets on the VTX B35 VT, first configure the VT as described in **Section 7.6 - Configuring the VT**. Because B35G cabinets do not include rigging hardware for attachment to the VT, secure the stack using the included ratchet strap. Dedicated channels in the VT allow the strap webbing to pass through and secure the stack.

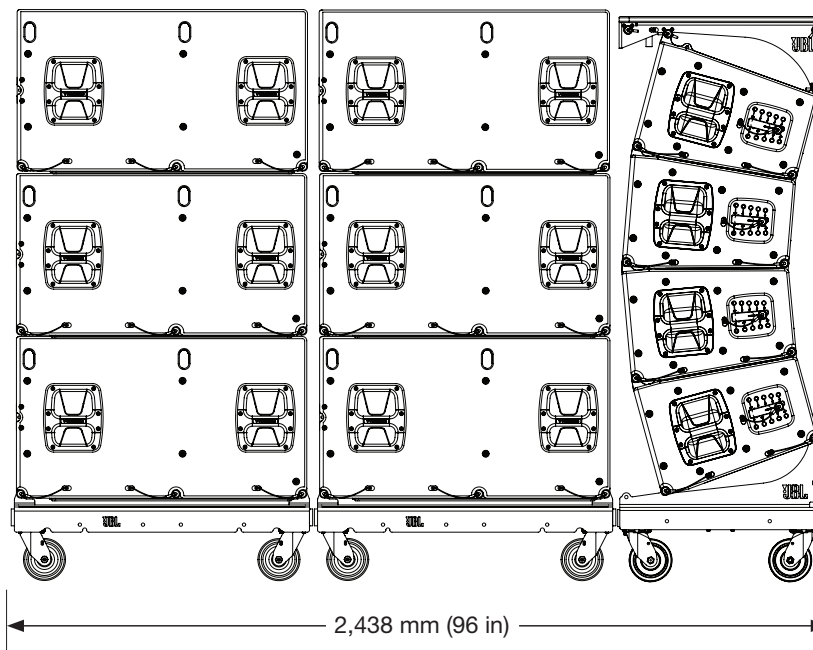
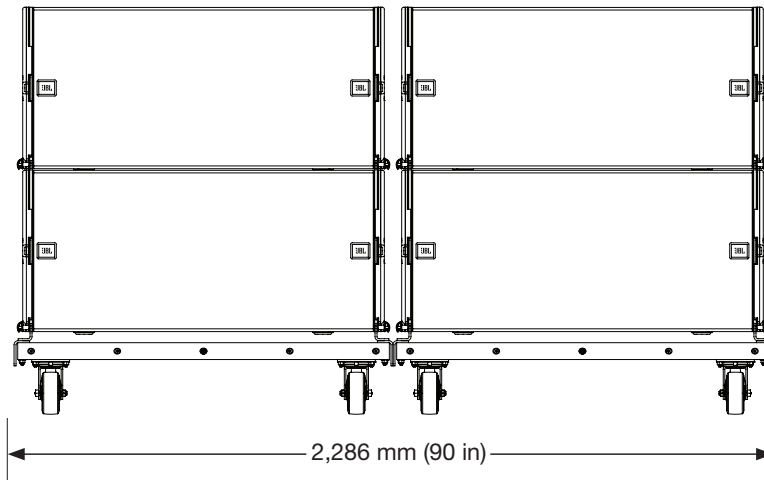


7.9 STACKING B35 VERTICAL TRANSPORTERS

The VTX B35 VT Vertical Transporters can be stacked together for storage when not in use. Rotate the casters inward, then lift one VT onto another, seating the casters into the caster cups.



7.10 VTTRUCK PACKING



8 - SUSPENDING THE B35 USING THE VTX A12 AF MKII

The VTX A12 AF MKII is used for suspending VTX A12 and B35 cabinets. The frame supports single-point, front-to-back, and side-by-side suspension configurations using the VTX A12 AF EB MKII Extension Bar. One Extension Bar is included with the frame, and a second Extension Bar can be added to enable side-by-side suspension. This manual describes the VTX A12 AF MKII only in the context of the B35. For detailed information on A12 Array Frame operation and additional use cases, refer to the **VTX A12 Rigging Manual**.



CAUTION: The original VTX A12 AF is not compatible with the VTX B35. When suspending B35 subwoofers, always ensure that the VTX A12 AF MKII is used.

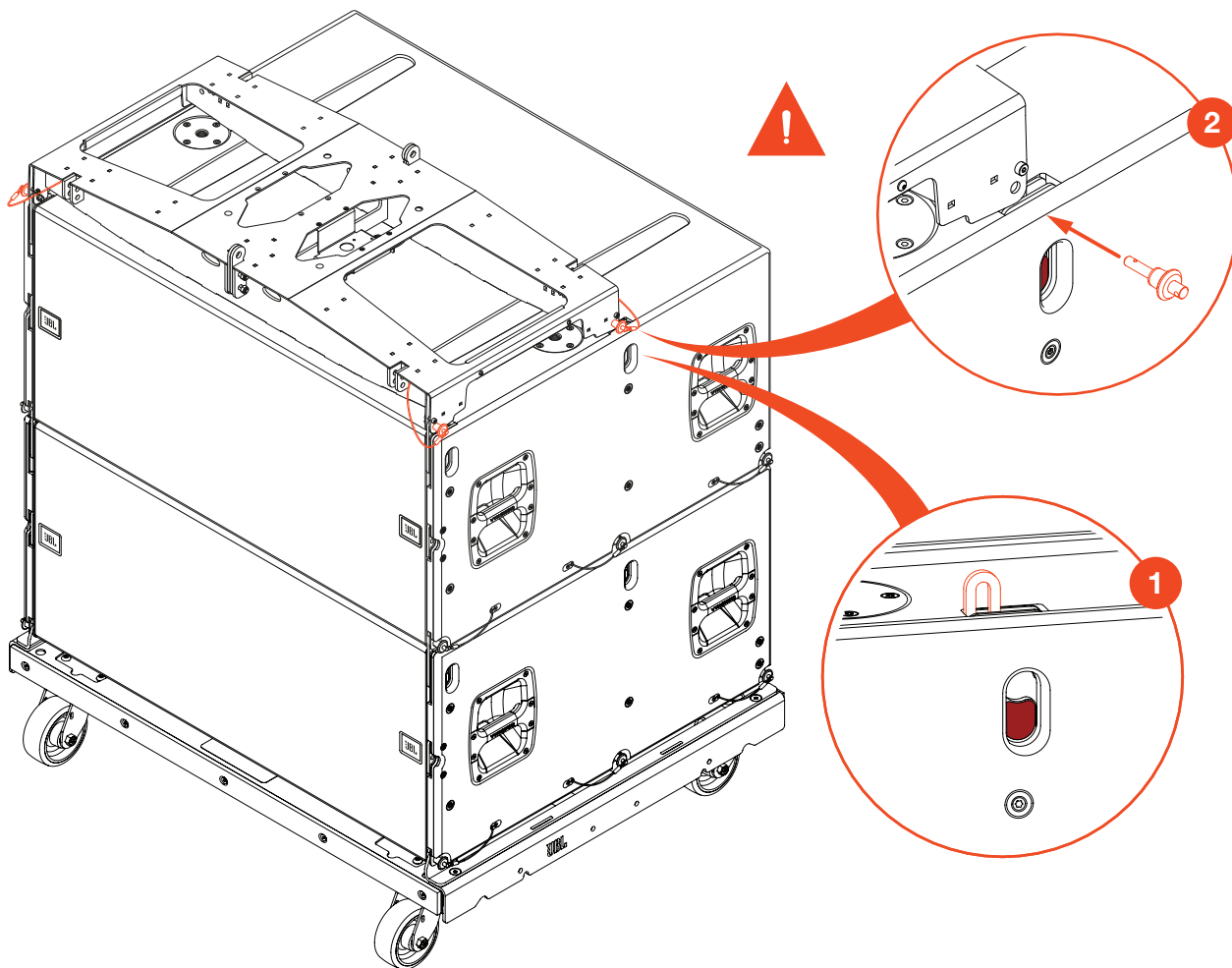


CAUTION: This manual describes the VTX A12 AF MKII only in the context of the B35. For detailed information on the A12 Array Frame and additional use cases, refer to the **VTX A12 Rigging Manual**.

8.1 ATTACHING THE ARRAY FRAME

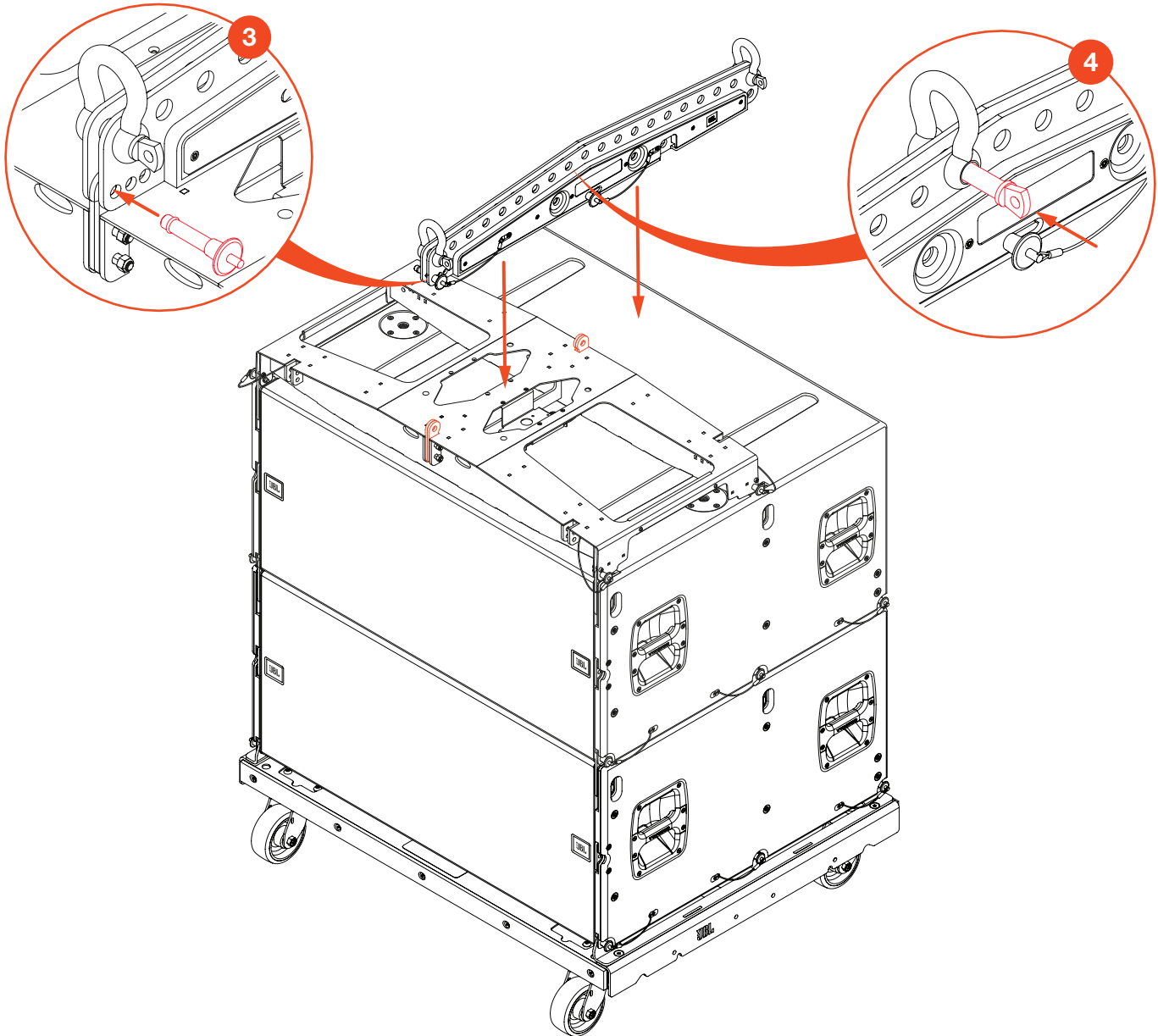
STEPS:

- 1 Extend the four B35 Rigging Bars.
- 2 Attach the VTX A12 AF MKII to the B35 Rigging Bars using the Quick Release Pins.



STEPS (CONTINUED):

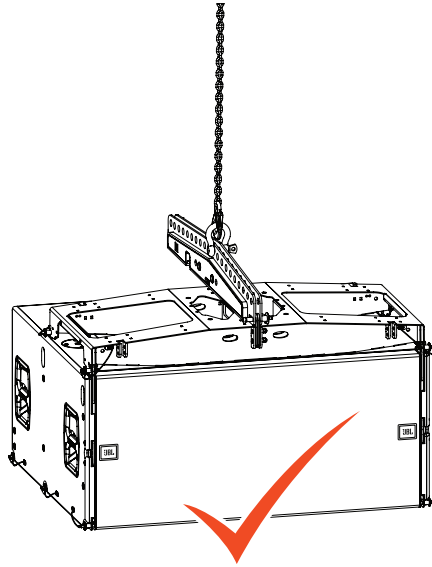
- 3 Attach the Extension Bar to the Array Frame by placing it onto the attachment tabs and securing it with the two large Quick Release Pins. Use Venue Synthesis to determine the correct A, B, or C position.
- 4 Connect the shackle(s) to the appropriate hole(s) on the Extension Bar(s), then connect the hoist.



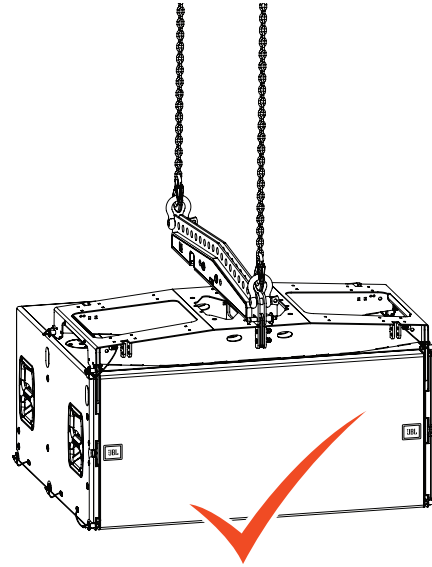
TIP: Refer to JBL Venue Synthesis software to determine the appropriate shackle position and attachment combination to achieve the required array angle.

8.2 SUSPENSION OPTIONS

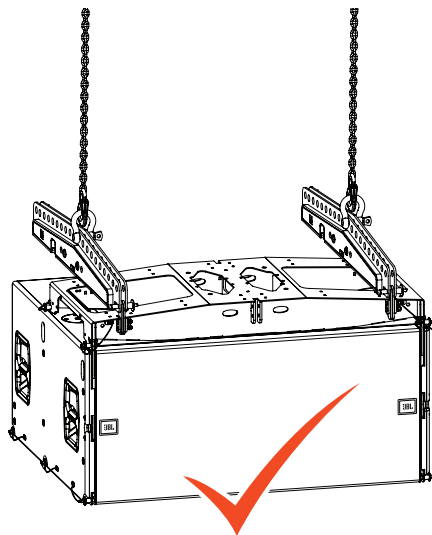
The VTX A12 AF MKII supports single-point, front-to-back, and side-by-side suspension configurations using the VTX A12 AF EB MKII Extension Bar. One Extension Bar is included with the frame, and a second Extension Bar can be added to enable side-by-side suspension configurations.



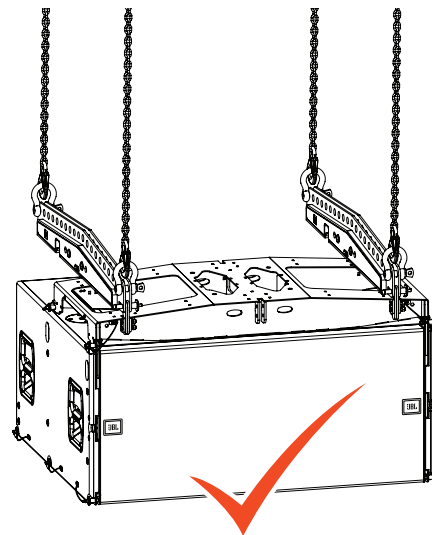
SINGLE-POINT



**DUAL-POINT
FRONT-TO-BACK**



**DUAL-POINT
SIDE-BY-SIDE**



**QUAD-POINT
SIDE-BY-SIDE**

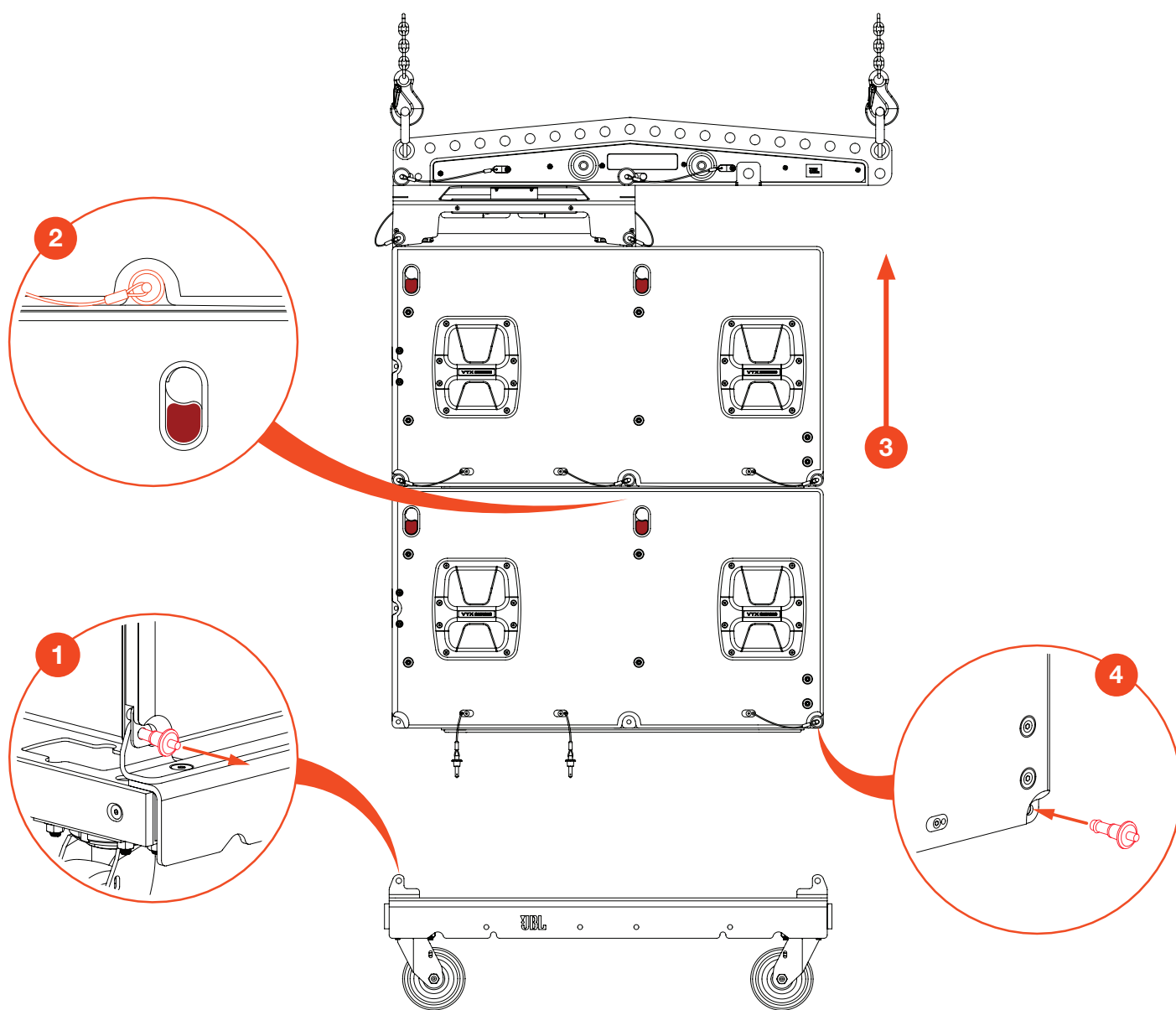


CAUTION: This manual describes the VTX A12 AF MKII only in the context of the B35. For detailed information on the A12 Array Frame and additional use cases, refer to the VTX A12 Rigging Manual.

8.3 SUSPENDING B35 ARRAYS

STEPS:

- 1 Remove the four Quick Release Pins securing the B35 to the Vertical Transporter (if used).
- 2 Verify that all four Quick Release Pins connecting the B35 cabinets are fully inserted and secure. Confirm that the red indicators are visible, indicating that the Rigging Bars on the lower B35 are fully deployed.
- 3 Use a hoist to lift the B35 stack off the VT.
- 4 If the array is complete, reinstall all six lower Quick Release Pins. Otherwise, reinstall only the two rear pins and leave the front and center pins removed.

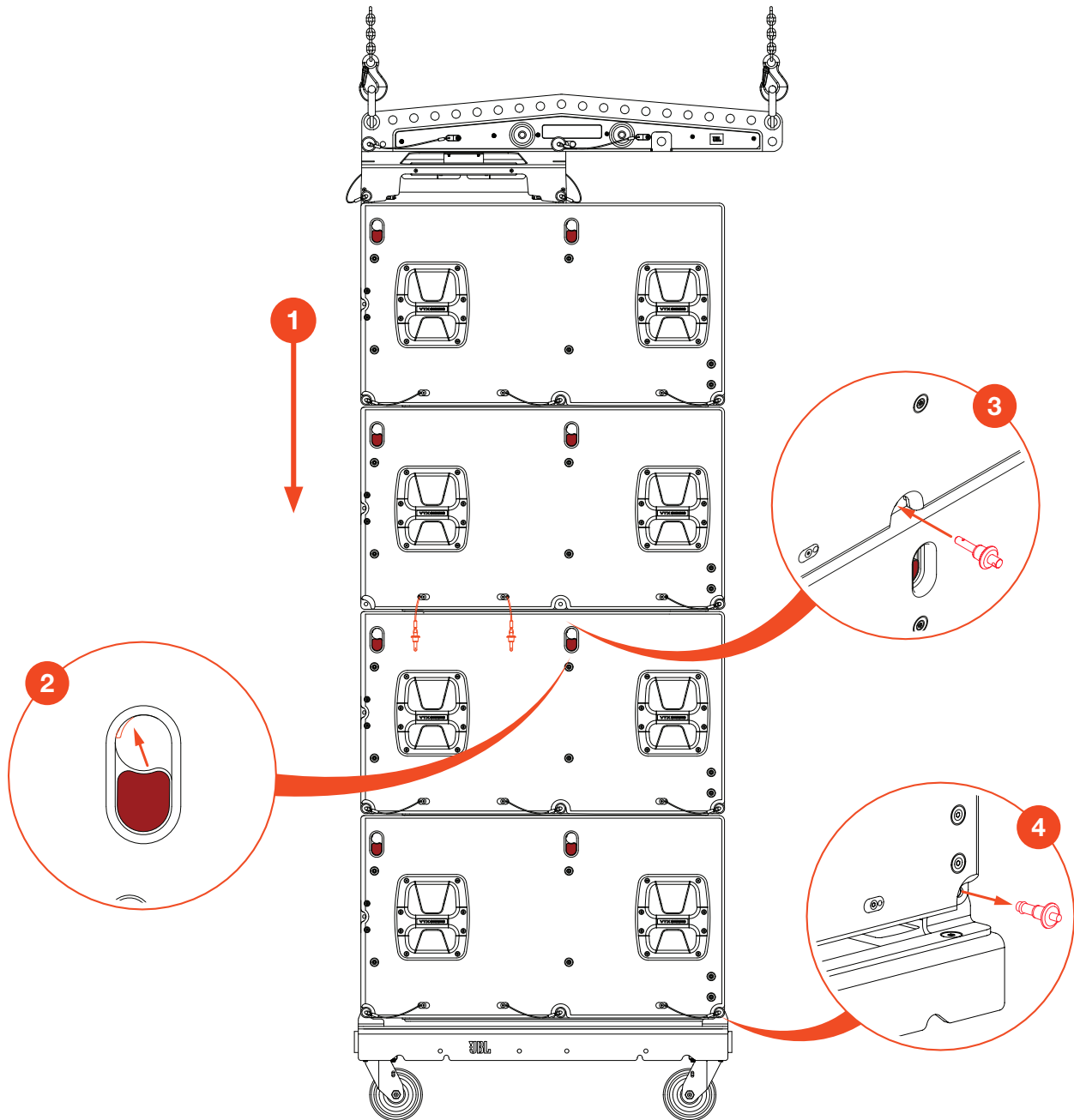


TIP: The bottom rear Quick Release Pin is only used when attaching a Suspension Bar for pull-back and is not used when connecting two B35 cabinets together.

8.4 CONNECTING ADDITIONAL B35 STACKS

STEPS:

- 1 Lower the flown B35 stack until it rests on the next B35 stack.
- 2 Extend all four Rigging Bars on the uppermost B35 cabinet in the ground stack.
- 3 Use the four Quick Release Pins on the bottom flown B35 cabinet to secure the two stacks together.
- 4 Disconnect the VT if used, lift the array, and repeat these steps to add additional cabinets.

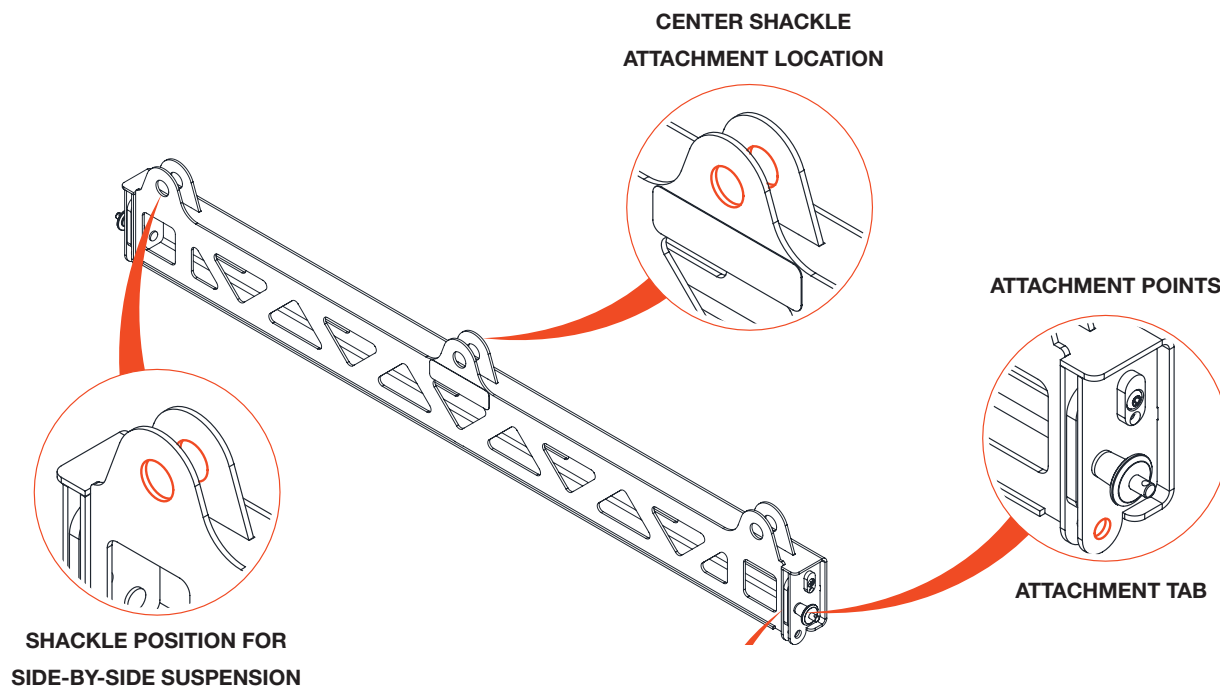


TIP: The bottom rear Quick Release Pin is only used when attaching a Suspension Bar for pull-back and is not used when connecting two B35 cabinets together.

9 - SUSPENDING THE B35 USING THE VTX A12 SB

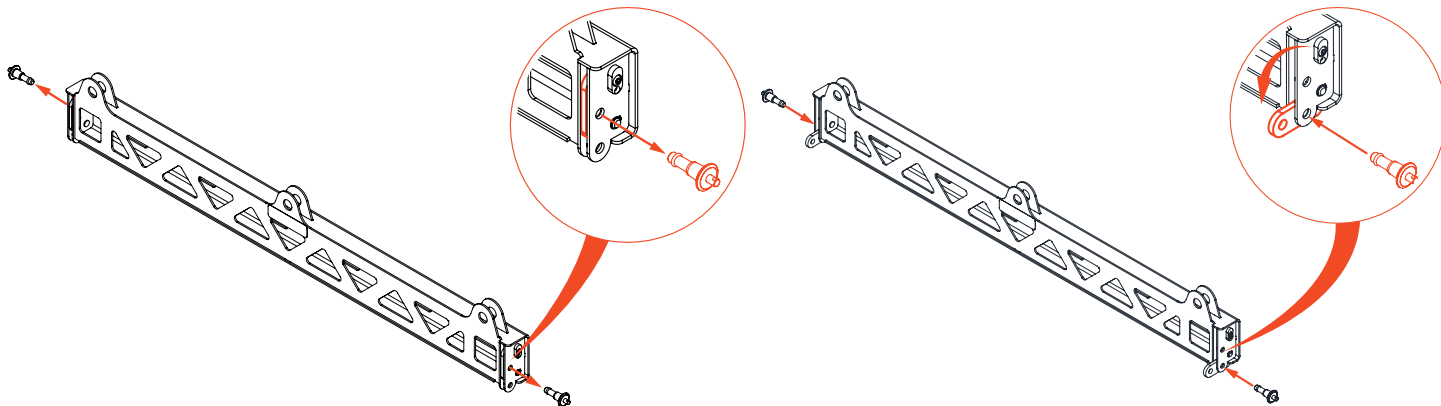
The VTX A12 SB is a lightweight Suspension Bar that can be used as a compact array frame or as a pull-back for a VTX B35 array. When used as a pull-back, the VTX A12 SB can be attached to the bottom cabinet and connected to a rear suspension point to allow for greater downtilt than is possible using the VTX A12 AF MKII alone. The VTX A12 SB can also be attached to the top cabinet of an array and used as a compact array frame. Two VTX A12 SB Suspension Bars can be used for dual-point configurations, providing additional aiming flexibility, with one at the top of the array and one at the bottom.

9.1 SUSPENSION BAR OVERVIEW



9.2 SUSPENSION BAR ATTACHMENT TABS

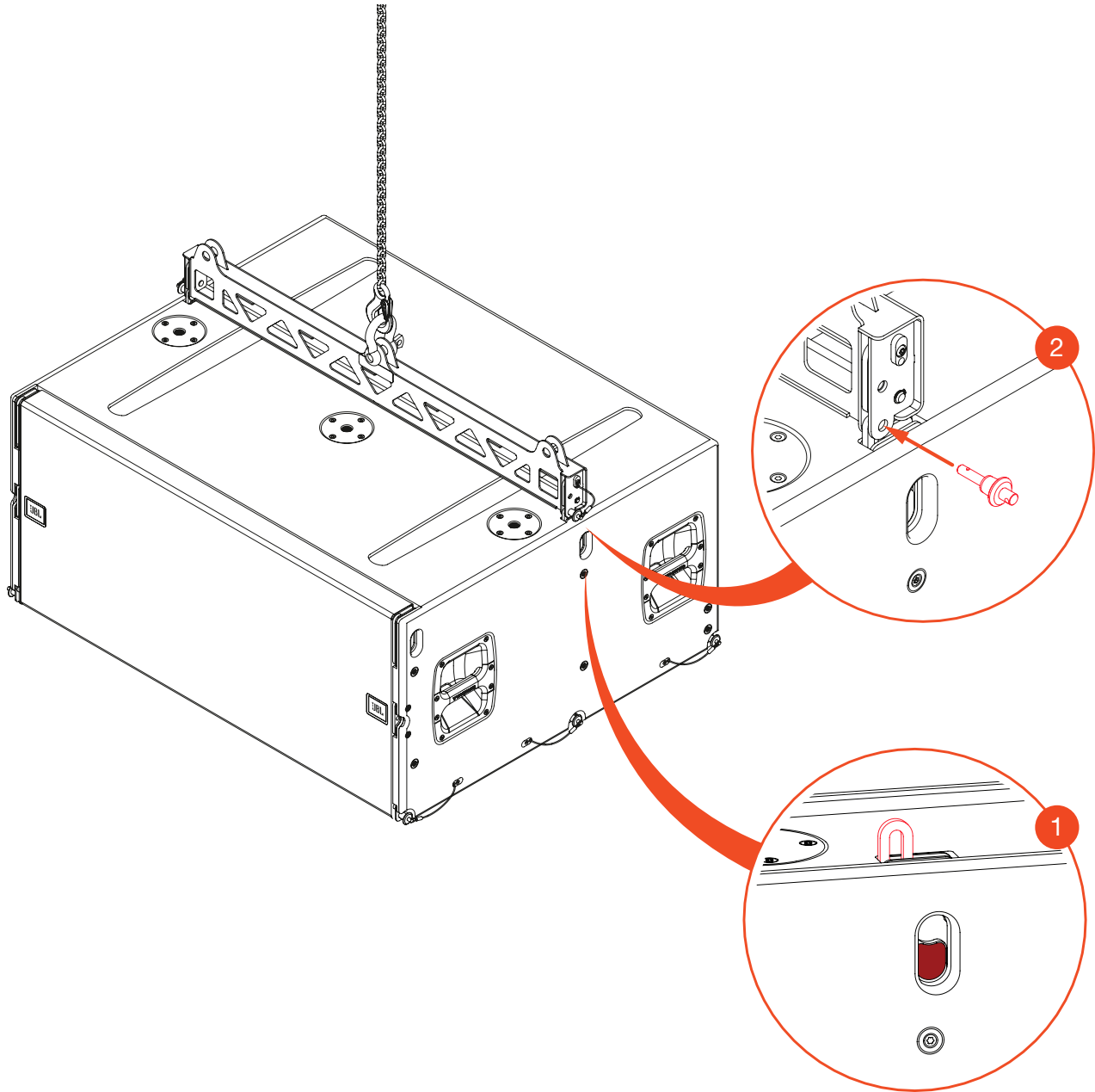
The Suspension Bar is designed to be attached to either the top or bottom of a suspended array. When attached at the bottom of the array, the attachment tabs must be released from their storage positions before attaching the SB to a VTX B35 cabinet. Remove the retaining pins on either side of the SB and allow the attachment tabs to spring into place. The attachment tabs can then be secured to the VTX B35 cabinet using the cabinet's Quick Release Pins.



9.3 ATTACHING THE SUSPENSION BAR

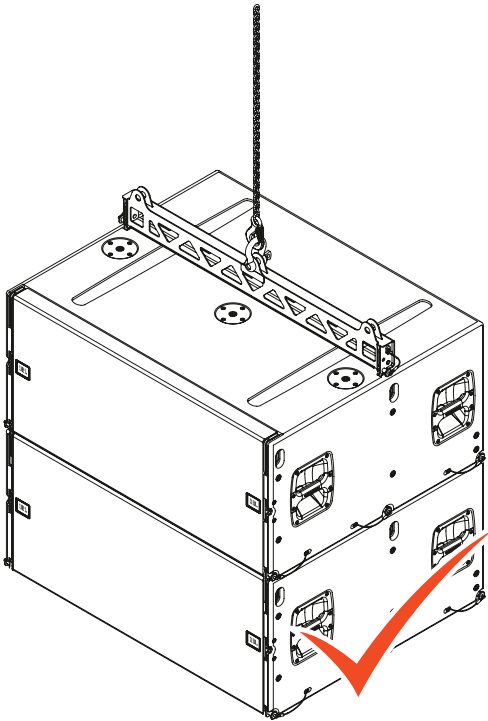
STEPS:

- 1 Extend the two center B35 Rigging Bars.
- 2 Secure the Suspension Bar to the Rigging Bars using the Quick Release Pins.

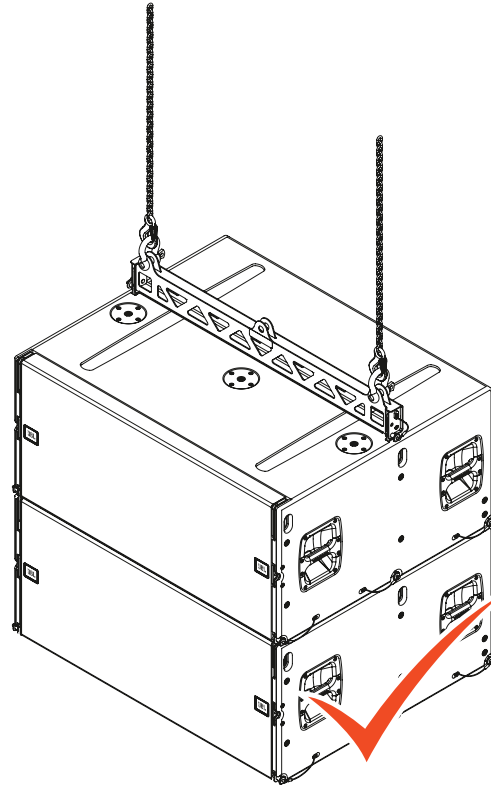


9.4 SUSPENSION BAR USE CASES

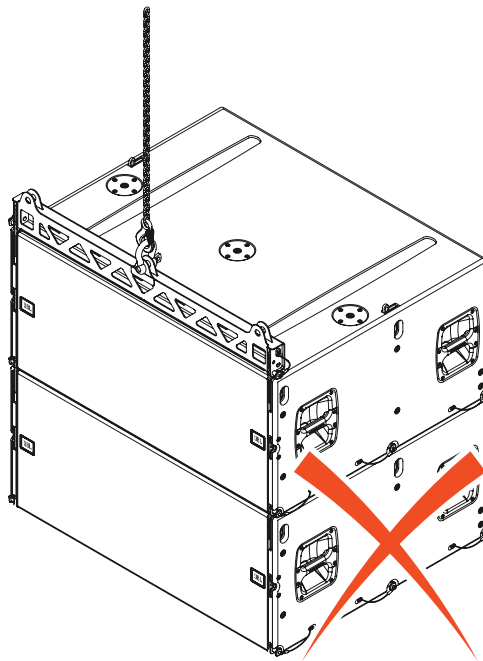
The VTX A12 SB Suspension Bar can be deployed in a number of configurations when used with B35 subwoofers. The examples below illustrate supported Suspension Bar configurations and a configuration that must not be used.



SINGLE-POINT (CENTER)



DUAL-POINT | SIDE-BY-SIDE



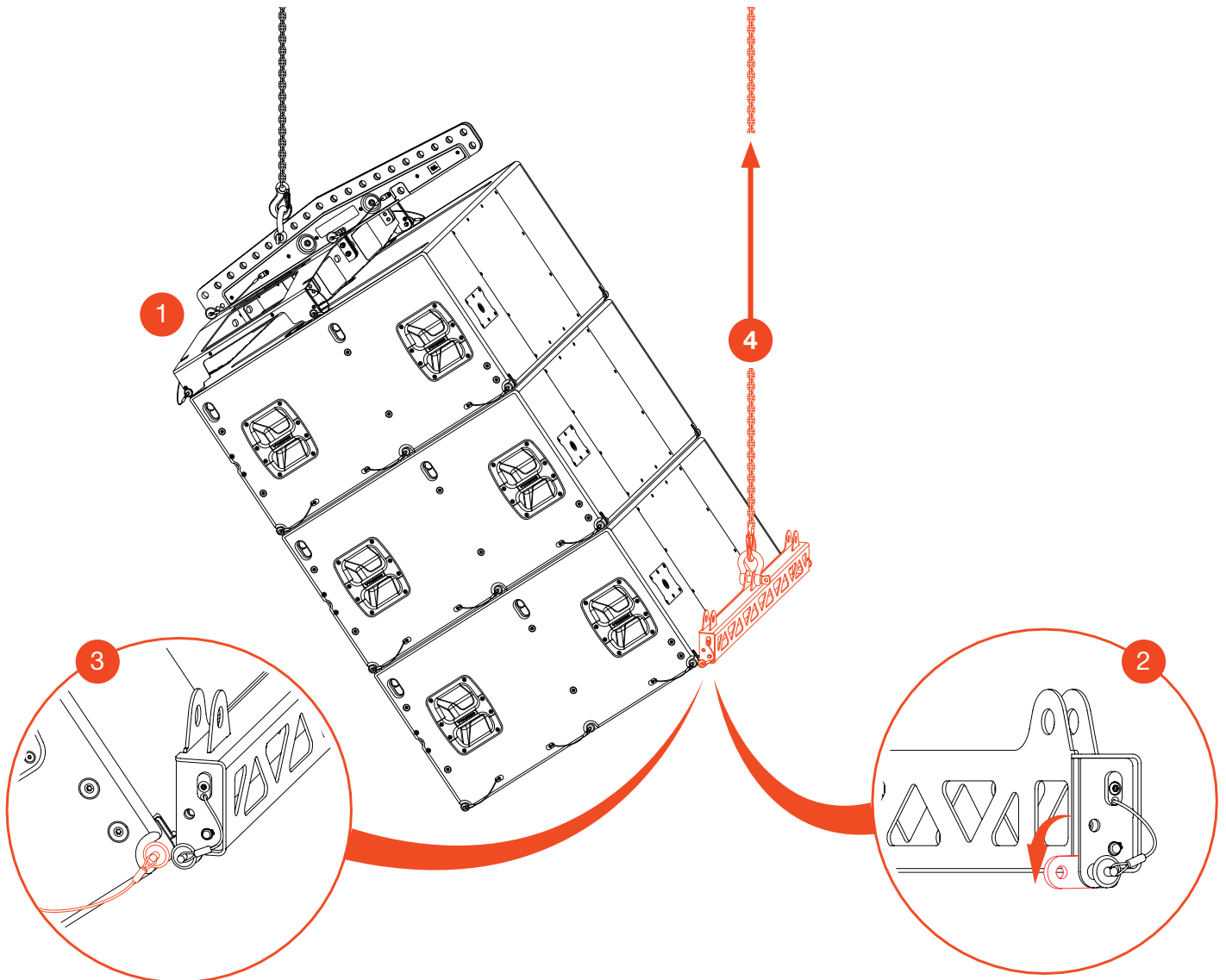
SINGLE-POINT (FRONT)

9.5 USING THE VTX A12 SB FOR PULL-BACK

The Suspension Bar can be used for pull-back at the bottom of a B35 array in configurations requiring significant downtilt. Either the VTX A12 AF MKII or an additional Suspension Bar can be used at the top of the array as the primary attachment point. A Suspension Bar at the top must be connected to the two center rigging points of the B35. This simplifies assembly by allowing the array to remain straight during setup. When the VTX A12 AF MKII is used at the top, Extension Bar hole 9-B can be used to also keep the array straight during setup.

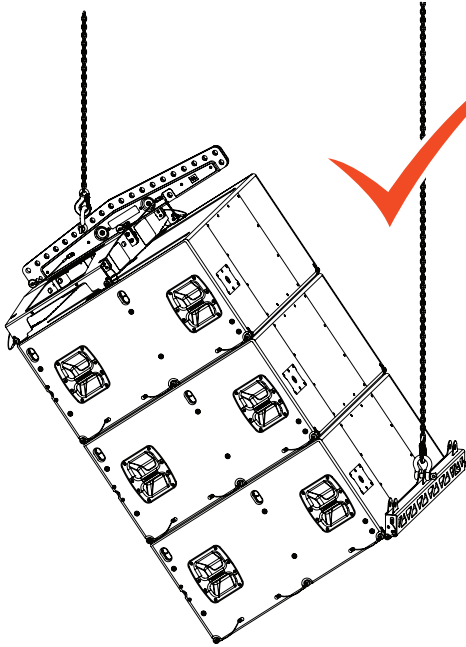
STEPS:

- 1 Assemble the B35 array based on the instructions in **Chapters 8 and 9**.
- 2 Extend the Suspension Bar tabs as shown in **Section 9.2 - Suspension Bar Attachment Tabs**.
- 3 Attach the Suspension Bar to the bottom B35 using the pull-back attachment point.
- 4 Attach the hoist and lift the rear of the array.

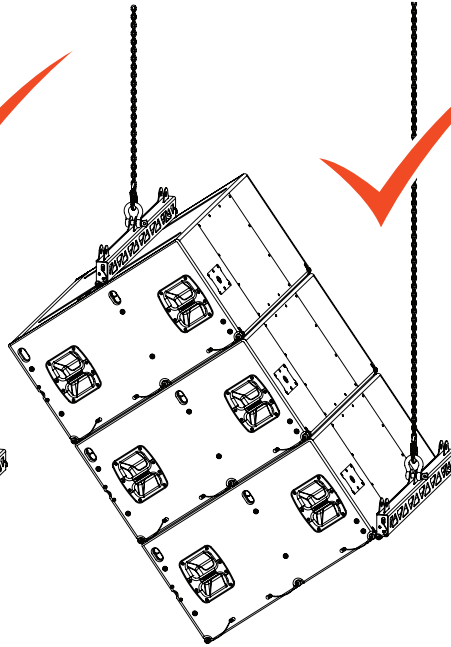


9.6 PULL-BACK USE CASES

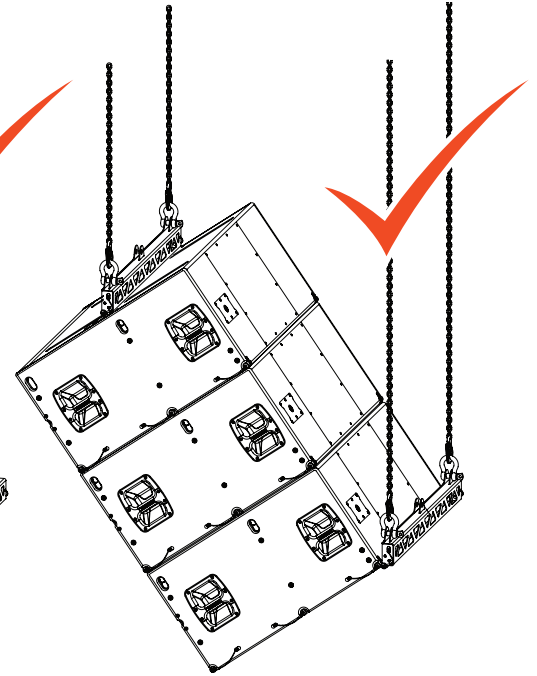
Follow the examples below to implement pull-back configurations for B35 arrays using the VTX A12 AF MKII and VTX A12 SB Suspension Bar.



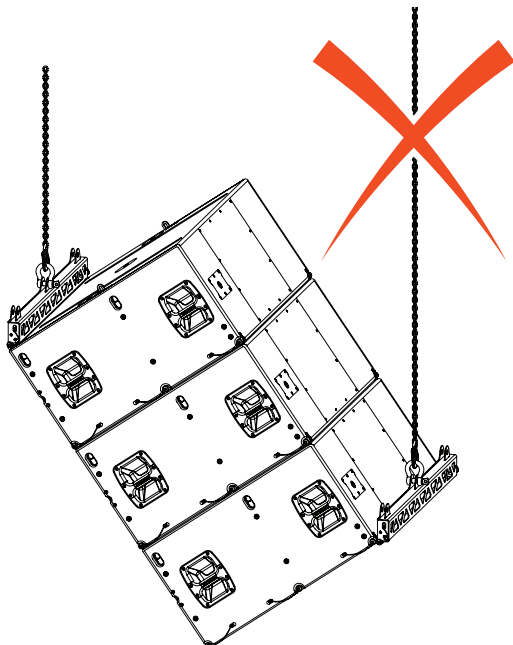
VTX A12 AF MKII + VTX A12 SB
DUAL-POINT



(2) VTX A12 SB
DUAL-POINT



(2) VTX A12 SB
QUAD-POINT

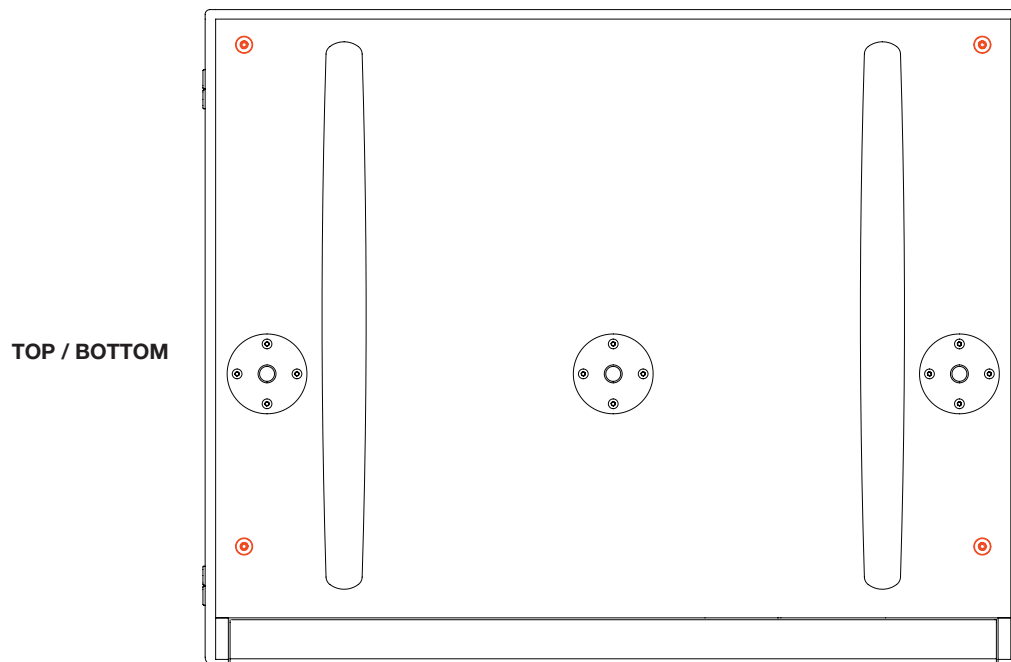
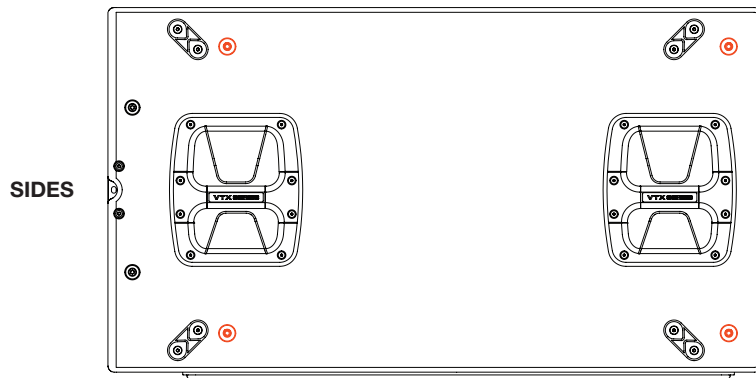


(2) VTX A12 SB
DUAL-POINT

10 - QUICKLINK ATTACHMENT POINTS

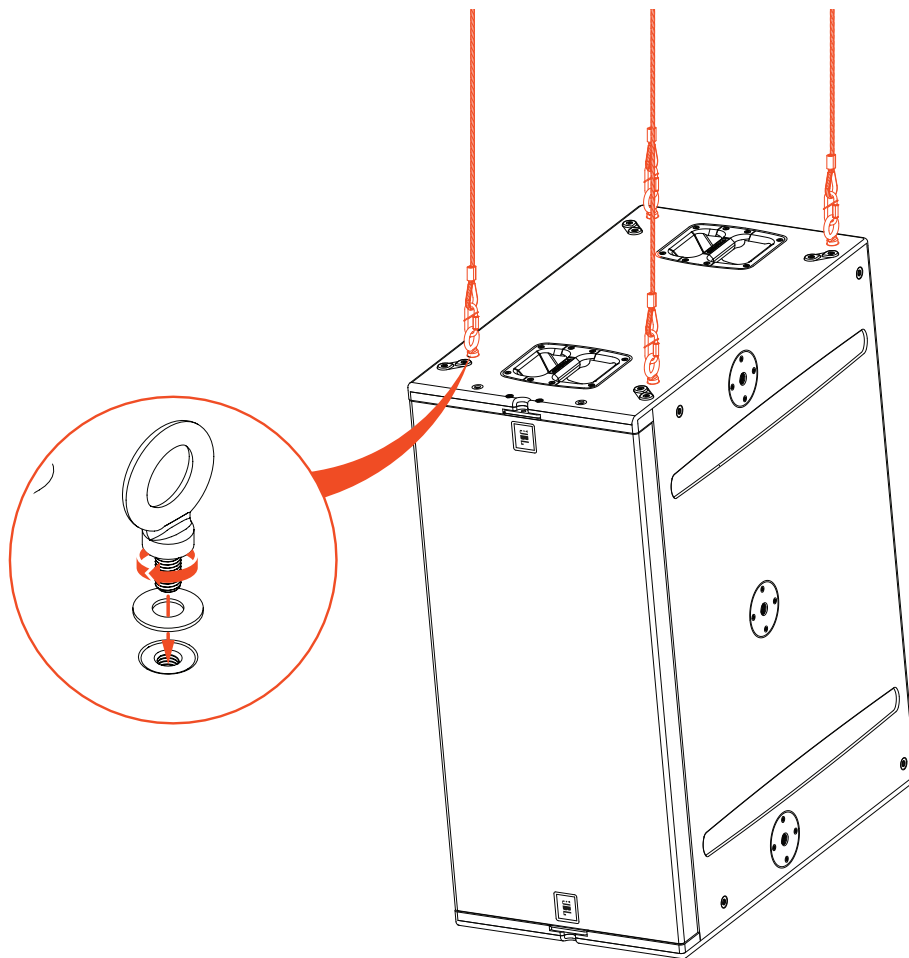
Unlike the B35, the B35G does not include integrated rigging hardware. Instead, the B35G includes multiple M10 threaded QuickLink™ attachment points for suspension. QuickLink™ allows eyebolts to be installed without tools and is internally sealed to prevent air leaks when not in use. QuickLink™ is designed for standard eyebolts with an M10 × 1.5 mm thread and a 20 mm shank length.

10.1 QUICKLINK LOCATIONS



10.2 SUSPENDING B35 FROM QUICKLINK POINTS

VTX B35G subwoofers are designed to be suspended directly from the M10 QuickLink™ attachment points without the use of additional accessories for fixed installations. A minimum of four suspension points is recommended per cabinet to allow proper aiming. When installing eyebolts, always place an M10 washer between the eyebolt shoulder and the QuickLink™ attachment point. The washer helps protect the enclosure surface and provides preload, allowing the eyebolt to be properly oriented before loading.



TIP: Refer to the **EBK4 M10-20 Eyebolt Kit Quick Start Guide** for additional information on suspending loudspeakers using eyebolts.



CAUTION: Do not suspend additional cabinets from a B35G using the M10 QuickLink attachment points. The Quick-Link points are intended for suspending a single B35G cabinet only.



CAUTION: Always ensure M10 suspension eyebolts are fully tightened into undamaged, properly threaded Quick-Link™ attachment points and aligned with the direction of the load before using them for overhead suspension.



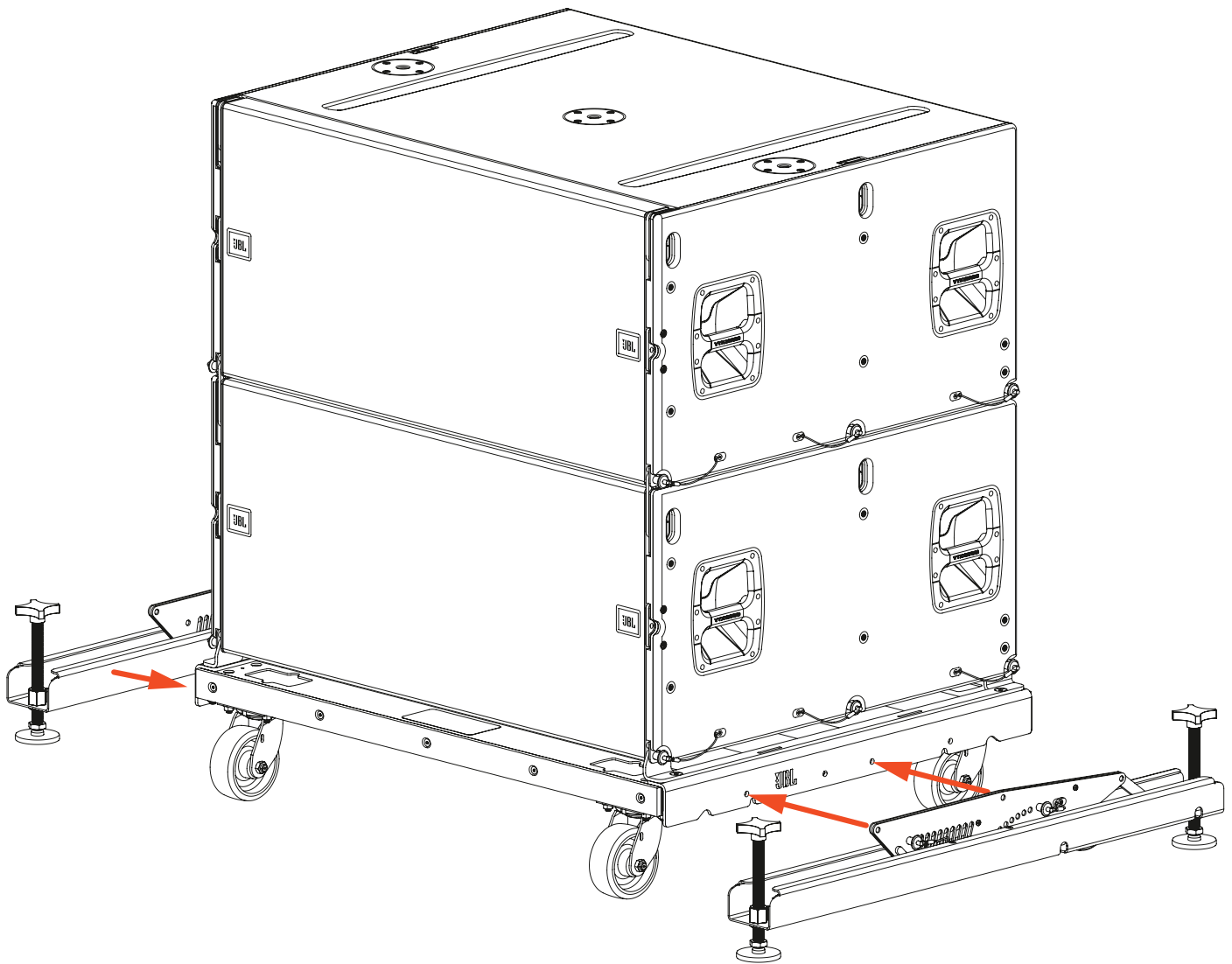
CAUTION: Always use certified hardware rated for overhead lifting when suspending the loudspeaker. Finger-tighten the eyebolt until fully seated and the correct alignment is achieved. Do not rotate more than one complete turn after the eyebolt is fully seated.

11 - THE VTX A12 VT GND

The VTX A12 VT GND outrigger system attaches to compatible Vertical Transporters, increasing the ground-stack footprint for improved stability while providing adjustable tilt for array aiming. For B35 systems, the VT GND is used only for added stability and must remain in the 0° (storage) position when in use. Screw jacks lift and stabilize the stack. For additional information, refer to the **VTX A12 Rigging Manual**.

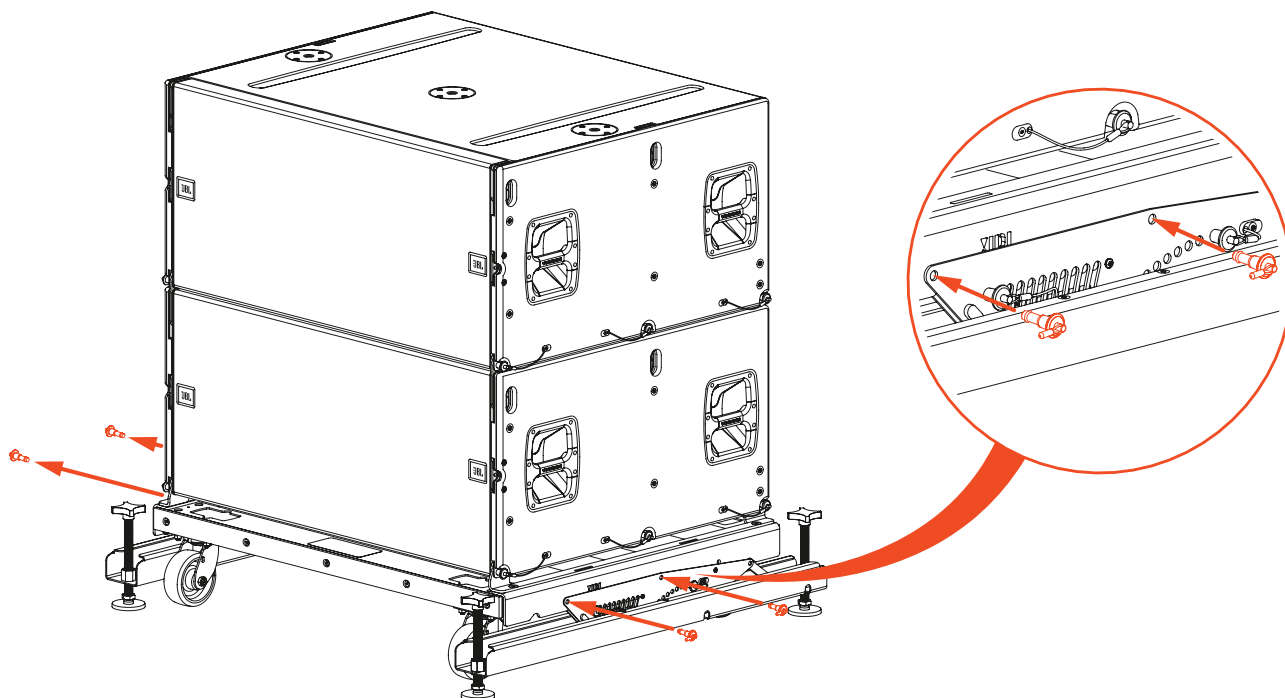
11.1 ATTACHING THE VTX A12 VT GND

The VTX A12 VT GND attaches to the Vertical Transporter without removing the cabinets from the VT. When the screw jacks are set to their lowest position, the outriggers are shorter than the VT and can easily slide under the stack. The front-to-back orientation of the GND does not matter in this configuration; it can be attached to the VT in either direction.

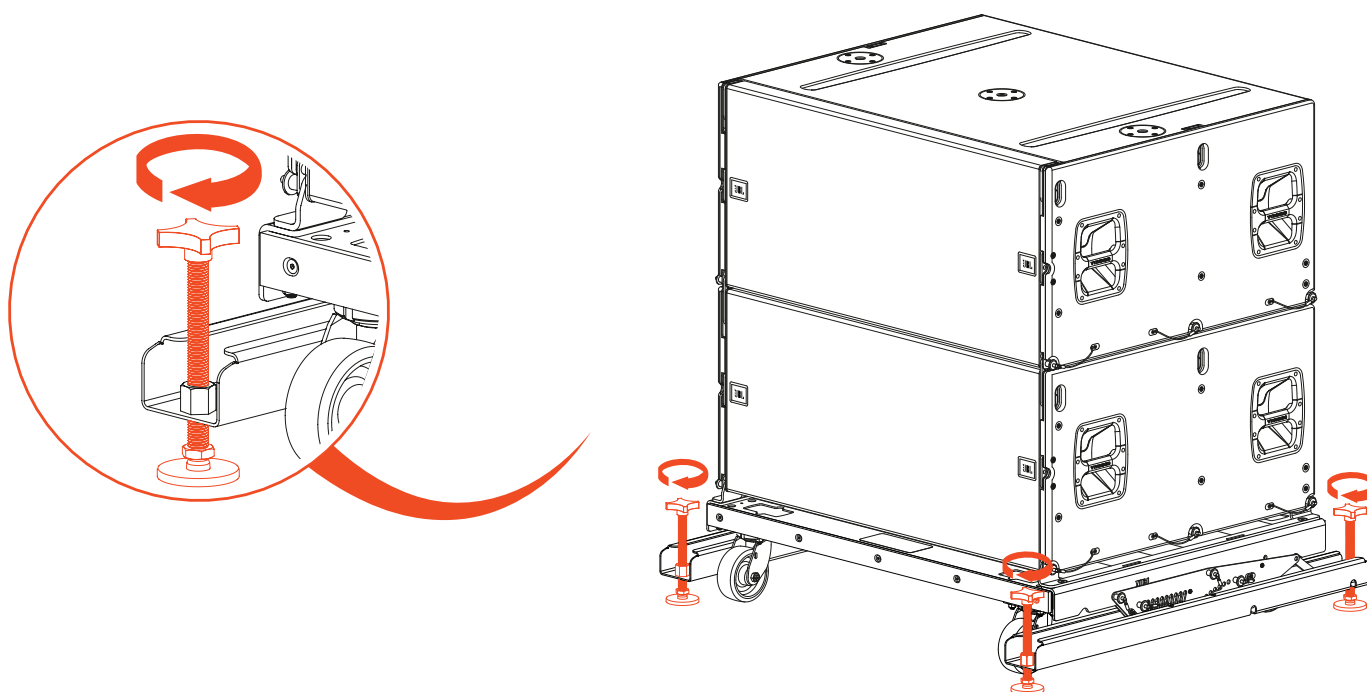


CAUTION: In this configuration, the two Quick Release Pins in the marked storage positions must not be removed. Releasing these pins engages the spring-loaded aiming mechanism, which is used for the A12 but must not be used with the B35.

Once the outriggers are under the VT, remove the two Quick Release Pins labeled **FRONT** and **REAR** VT Connection Points and attach the outriggers. **The two Quick Release Pins in the storage positions must remain in place; they are not used in this configuration.**

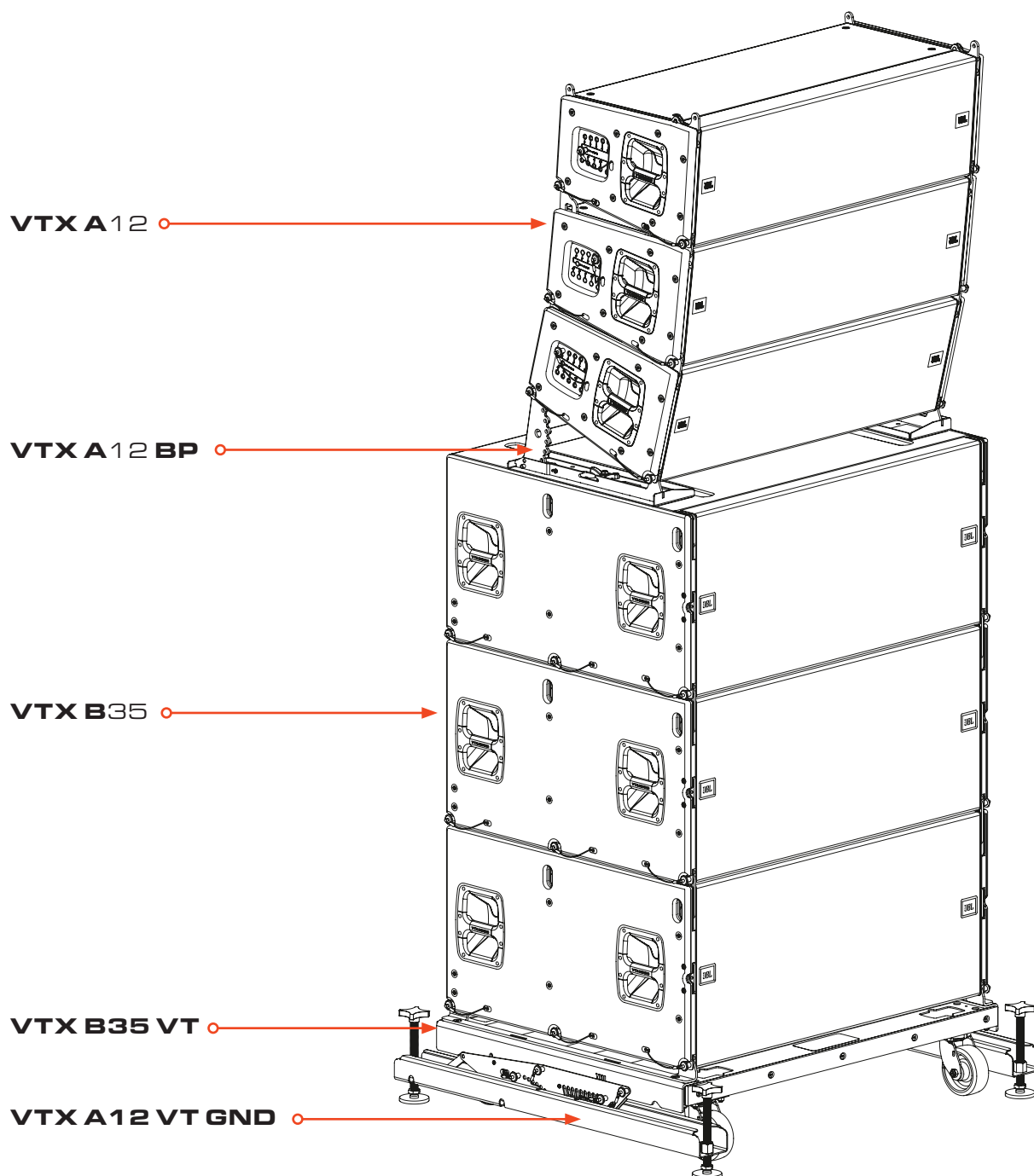


Once all the parts are assembled, use the screw jacks to lift the stack off the VT wheels. The screw jacks are used only to stabilize the stack, not to adjust its aiming angle. Use the handles at the top of the screw jacks to raise the stack evenly at all four corners. Continue rotating the handles until the VT wheels are off the ground.



Once the stack is stable and off the wheels, additional subwoofers or other products can be attached to the B35 cabinets using supported base plates. To disassemble the array and remove the outriggers, follow the same steps in reverse order.

11.2 VTX B35 + VTX A12 VT GND EXAMPLE



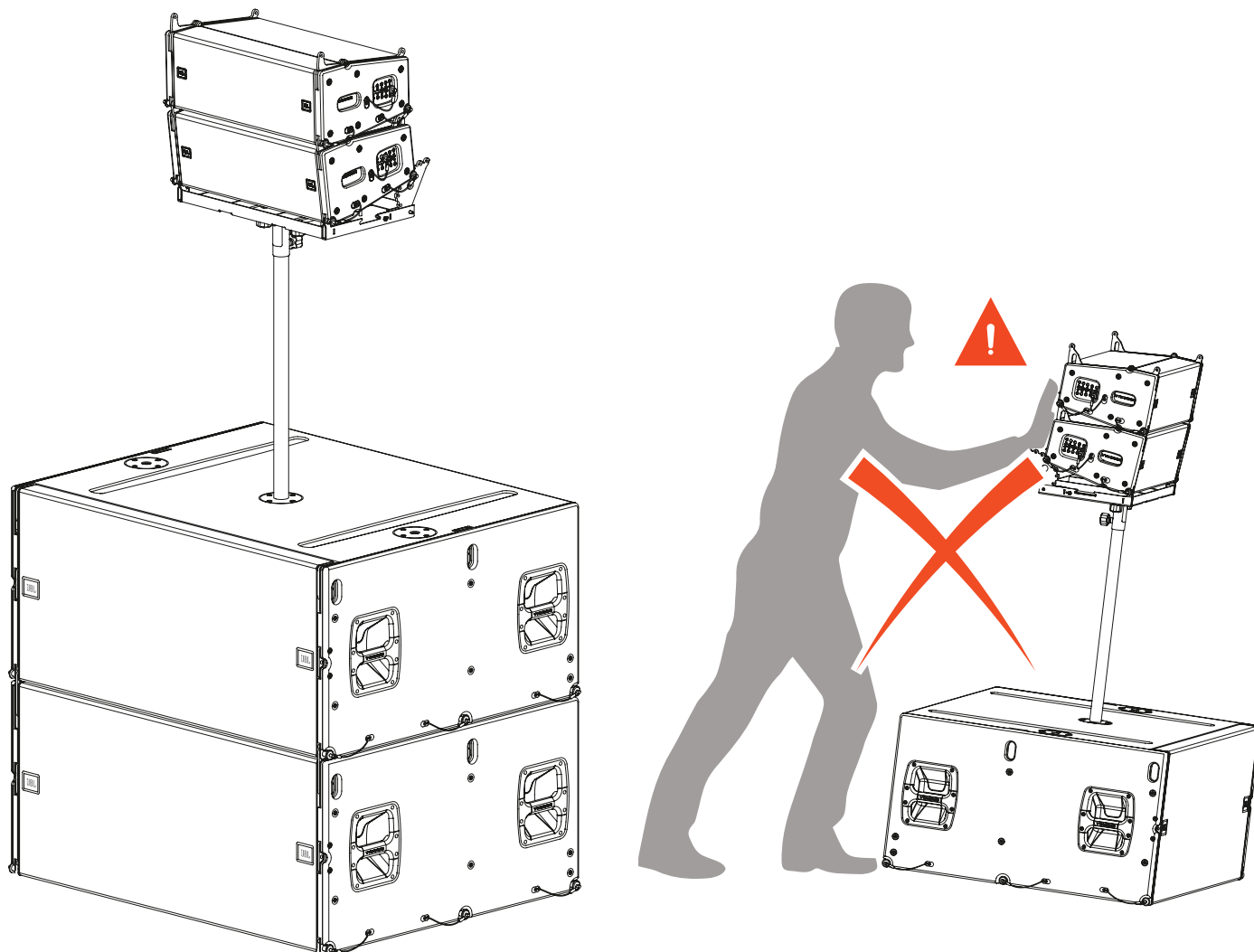
TIP: Refer to the **VTX A12 Rigging Manual** for more information on ground-stacked deployments using VTX full-range products.



CAUTION: Always use JBL Venue Synthesis to verify the mechanical integrity and stability of VTX arrays, including ground-stacked systems and accessories. Venue Synthesis assumes flat, level ground and does not account for all external forces or site conditions. Always follow safe rigging practices and secure ground-stacked arrays as required by local regulations and site conditions, even when Venue Synthesis indicates that the configuration is safe.

12 - POLE MOUNT ATTACHMENT

The B35 includes an M20 pole mount plate for attaching standard extension rods or other JBL-supported accessories, such as Base Plates. In this configuration, the extension rod can support up to 45 kg (100 lb) as a static vertical load. For more information on Base Plate configuration limits, refer to the corresponding VTX A Series Rigging Manual.



CAUTION: Do not deploy ground-stacked arrays on uneven or sloped surfaces. Safe limits for ground-stacked arrays assume that the stacking surface (floor or stage) is flat and level.



CAUTION: Do not lift or push against the extension rod, or move the subwoofer while the extension rod is loaded. Doing so can cause permanent damage or reduce the load capacity of the M20 plate, potentially resulting in a falling loudspeaker and personal injury.

13 - PRODUCT CARE AND MAINTENANCE

To ensure long-term safety and performance, VTX Series rigging systems must be maintained in accordance with the applicable requirements of Regulation (EU) 2023/1230 (Machinery Regulation). All rigging components must undergo regular inspection and maintenance by trained and qualified personnel. This section outlines general care practices, inspection intervals, and maintenance procedures for safe use.

13.1 INSPECTION FREQUENCY

INSPECTION TIMING	REQUIRED ACTIONS
Before each use	Visual inspection of all rigging hardware and loudspeaker enclosures.
Monthly (minimum)	Full inspection of suspension components and load-bearing hardware.
After an incident	Inspect any system exposed to impact, overload, or extreme environmental stress.

13.2 COMPONENTS TO INSPECT

Inspect the following for visible damage, wear, or deformation:

- Loudspeaker enclosures and structural rigging points
- Quick Release Pins and Rigging Bar mechanisms
- Suspension accessories such as array frames, extension bars, spreader bars, suspension brackets, base plates, pole mounts, pull-back accessories and clamps
- Lifting eyebolts and threaded fasteners

Look for:

- Cracks, rust, or corrosion
- Bending, warping, or deformation
- Loose or missing hardware and spun-out bolts
- Water damage or plywood delamination

13.3 CORRECTIVE ACTION

- Remove any compromised components from service.
- Replace only with JBL Professional-supplied parts and hardware
- For uncertain or severe issues, consult a JBL-certified repair technician or authorized service partner.

13.4 CLEANING AND STORAGE

- Clean with a damp cloth. Avoid using solvents as they may degrade the product's finish.
- Store in a dry, covered, and secure location.
- Use JBL-provided covers, cases, and vertical transport accessories for protection during transport and storage.



CAUTION: Do not deploy the loudspeakers until any issues identified during inspection have been resolved by a qualified professional.

14 - CONTACT INFORMATION

UNITED STATES OF AMERICA

HARMAN Professional Solutions
8500 Balboa Blvd.
Northridge, CA 91325
USA
+1 (844) 776-4899
www.jblpro.com

U.S.A. Technical Support
+1 (844) 776-4899
HProTechSupportUSA@Harman.com
www.jblpro.com

PROFESSIONAL CONTACTS, OUTSIDE THE U.S.A.:

Contact the JBL Professional distributor in your area. A complete list of JBL Professional international distributors is provided at our U.S.A. website: www.jblpro.com

HARMAN Professional EMEA
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London Road
Hemel Hempstead
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www.pro.harman.com
www.jblpro.com/support

HARMAN Professional APAC
108 Pasir Panjang Road
#02-08 Golden Agri Plaza
Singapore 118535
+65 6870-5000
www.pro.harman.com
www.jblpro.com/support

HARMAN Professional China
20F, China Merchants Port Plaza, #1
Gongye 3rd Road, Shekou, Nanshan
Dist.
Shenzhen, 518067, China
400 166 7806
www.harman.com/China
www.jblpro.com/support

China In-Country Support
ChinaPRO.Service@harman.com

HARMAN Professional India
Prestige Technology Park
Jupiter 2A Block, 4th Floor
Marathahalli Ring Road
Bangalore 560103, India
+1 (800) 208-8880
www.harman.com/India
www.jblpro.com/support

HARMAN Professional Brazil
Br386, Km435 92480-000
Nova Santa Rita Rs
Brazil
+55 51 34794000
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India In-Country Support
www.harman.com/india/india-service-center

Brazil In-Country Support
tecnica@harman.com

