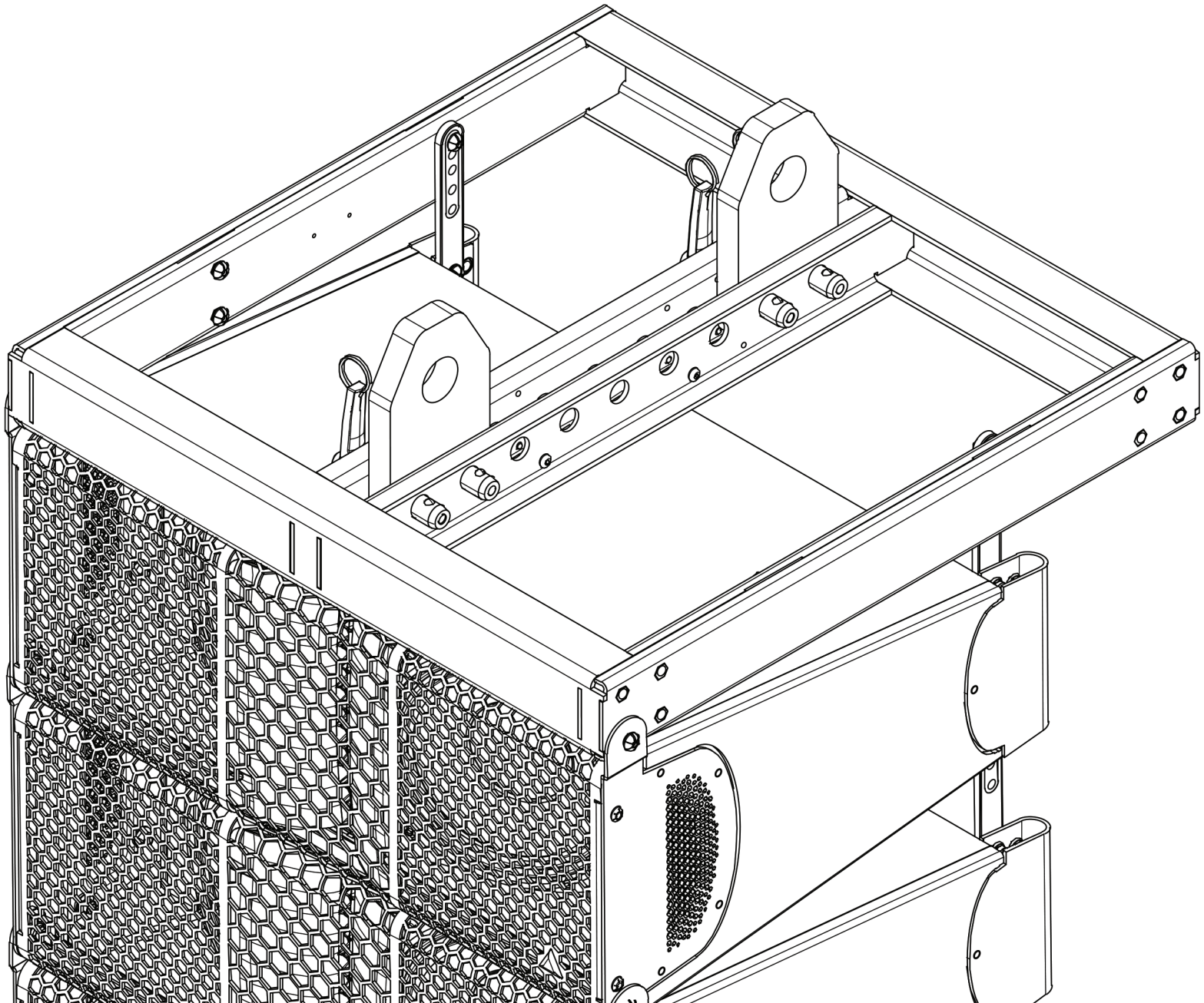
ADAMSON

IS-SERIES

Line Array Rigging Manual



IS-Series Line Array Rigging Manual

Version 1.1

- Distribution Date: March 1st, 2020
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This manual must be accessible to the person operating this product. As such, the product owner must store it in a safe place and make it available upon request to any operator.

This manual must be included in the resale of an IS-Series system.

If this manual becomes damaged or additional copies are needed, please email support@adamsonsystems.com.

Declarations

EU Declaration of Conformity

ADAMSON SYSTEMS ENGINEERING, Inc.
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Adamson Systems Engineering declares that the products stated below are in conformance with the relevant fundamental health and safety criteria of the applicable EC Directive(s), in particular:
Directive 2014/35/EU: Low Voltage Directive
Directive 2006/42/EC: Machinery Directive

CE

Established at Port Perry, ON. CA - June 1st, 2017

Brock Adamson (President & CEO)

ADAMSON
IS-Series

Loudspeakers
971-0003 IS7
971-0004 IS7b
973-0006 IS10
973-0007 IS10b
973-0008 IS10n
973-0009 IS10nb
994-0005 IS119
994-0006 IS119b
992-0010 IS118
992-0011 IS118b

Accessories
930-0026 IS7/IS118 Support Frame
930-0028 IS10/IS119 Support Frame
930-0029 IS7 Micro Frame
930-0030 IS10 Micro Frame
930-0021 Extended Beam
930-0033 Moving Point Extended Beam

Table of Contents

1.0 Safety & Warnings

1.1 Safety & Warnings

- Read these instructions, keep them available for reference. They can be downloaded from https://www.adamsonsystems.com/en/support/downloads-directory/is-series/ Heed all warnings and follow all instructions.
- Qualified personnel must carry out the installation of this product, observing local rules and regulations regarding suspension and working aloft.
- Servicing is required when the loudspeaker has been damaged in any way, such as when the loudspeaker has been dropped; or when for undetermined reasons the loudspeaker does not operate normally.
- Visual inspection and approval of the point of suspension is the responsibility of the installation personnel
- Rigging instructions such as Load and Centre of Gravity can be found by using Adamson's Blueprint AV software.
- Use only with the rigging frames/accessories specified by Adamson, or sold with the loudspeaker system.
- This speaker enclosure is capable of creating a strong magnetic field. Please use caution around the enclosure with data storage devices such as hard drives.

1.0 Safety & Warnings

1.1 Safety Precautions

- Blueprint AV **must** be used for determining rigging angles and potential load restrictions before suspending any Adamson line array product.
- Pay attention to all load warnings displayed in Blueprint AV. Systems with a load warning **must not** be suspended until all warnings have been cleared.
- All suspended systems must have a secondary suspension system installed that is capable of carrying the total load of the installed system.
- When setting up systems outdoors, take wind conditions into account in terms of total load.
- Installation of these systems should be performed by at least two qualified technicians.
- When suspending any Adamson product, the proper PPE (personal protective equipment) should be worn.
- All local laws and by-laws must be adhered to when suspending these products.
- When lifting apparatus is in operation, nobody shall walk directly underneath.
- Never climb the flown array.

1.2 Software

Adamson's predictive software suite, Blueprint AV, must be used when designing Adamson Line Arrays. It can also be used as a resource when suspending Adamson Point Source products.

Blueprint AV is available for both Windows and Mac OSX and can be downloaded from www.adamsonsystems.com.

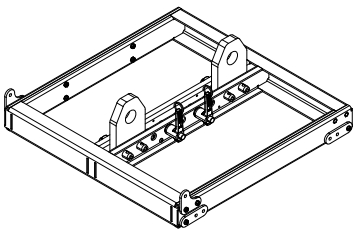
There is a tutorial for the software located in the Help section of the software, as well as a series of tutorial videos located at www.adamsonsystems.com/en/education/media-gallery/blueprint-av-tutorial

Adamson recommends that users attend an Applied or Advanced Certification education session to improve their working knowledge of Adamson products. Upcoming sessions can be found at www.adamsonsystems.com/en/education/events

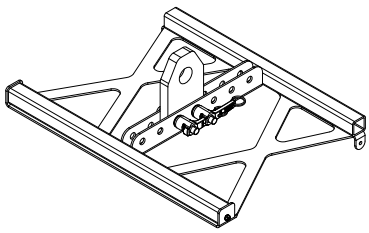
Blueprint AV contains all the relevant mechanical data needed when suspending Adamson loudspeakers and accessories. It will notify the user when a design exceeds mechanical safety limits. **All safety warnings from Blueprint AV must be strictly adhered to.**

2.0 Rigging Applications

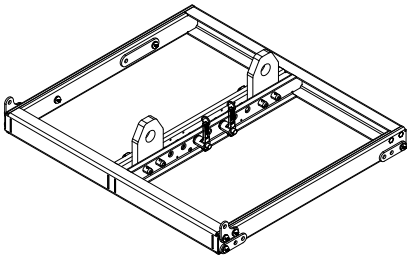
2.1 Accessories Overview



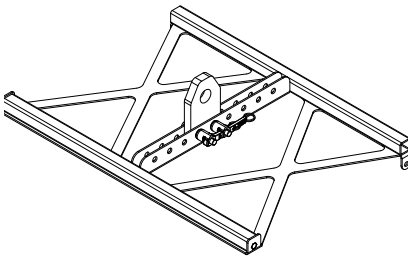
930-0026
IS7/IS118 Rigging Frame
Suspension, stacking and transition frame for IS7 & IS118 enclosures



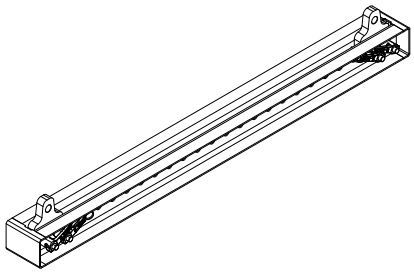
930-0029
IS7 Micro Frame
Suspension frame to hang up to 8x IS7 enclosures



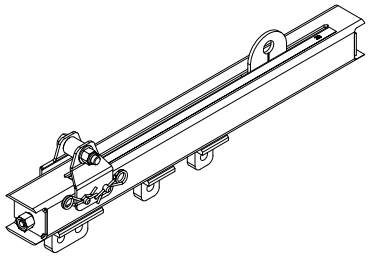
930-0028
IS10/IS119 Rigging Frame
Suspension, stacking and transition frame for IS10 & IS119 enclosures



930-0030
IS10 Micro Frame
Suspension frame to hang up to 4x IS10 enclosures



930-0021
Extended Beam
Extension beam for larger angles



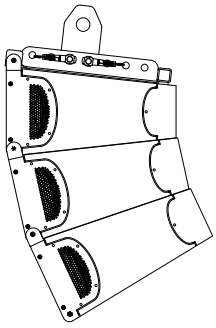
930-0033
Moving Point Extended Beam
Moving point beam to achieve exact angles with a single pick point

2.0 Rigging Applications

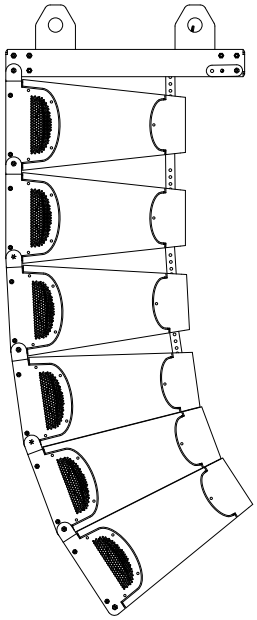
2.2 Suspension

IS-Series Line Array cabinets can be suspended using either a Riggin Frame or a Micro Frame. IS-Series Subwoofers can be suspended using a Rigging Frame.

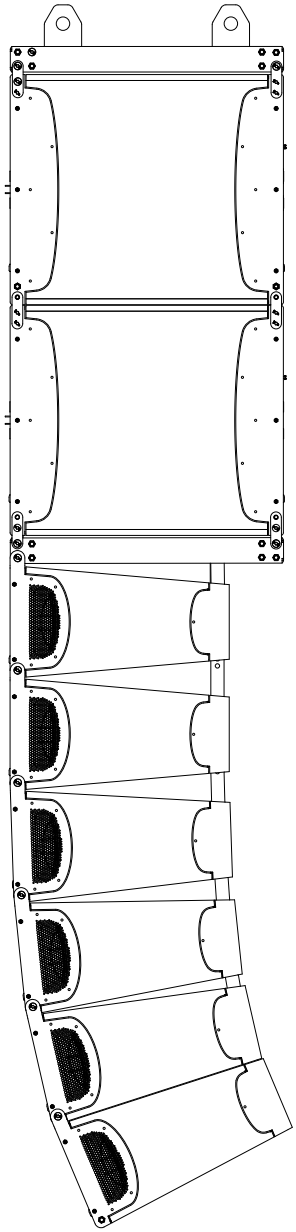
Below are some examples of configurations using these products:



3x IS7 suspended under 1x IS7 Micro Frame



6x IS7 suspended under 1x IS7 & IS118 Rigging Frame



2x IS119 and 6x IS10 suspended using 2x IS10 & IS119 Rigging Frames

3.0 Rigging Components

3.1 Accessories

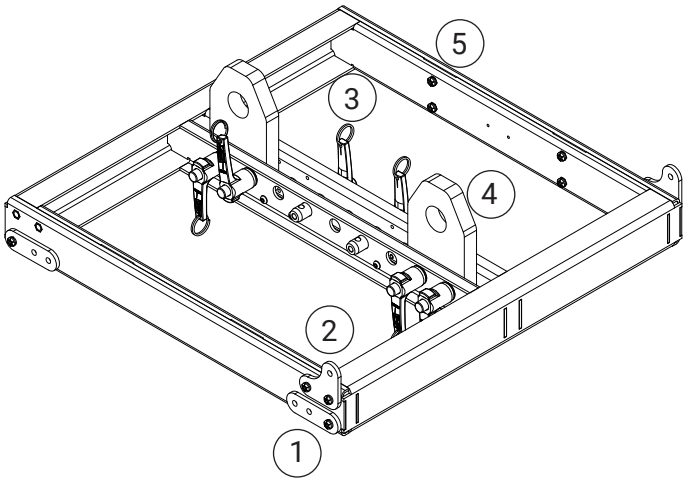
(930-0026) IS7 & IS118 Rigging Frame

Upon receipt of the product, verify that all components listed below are present.

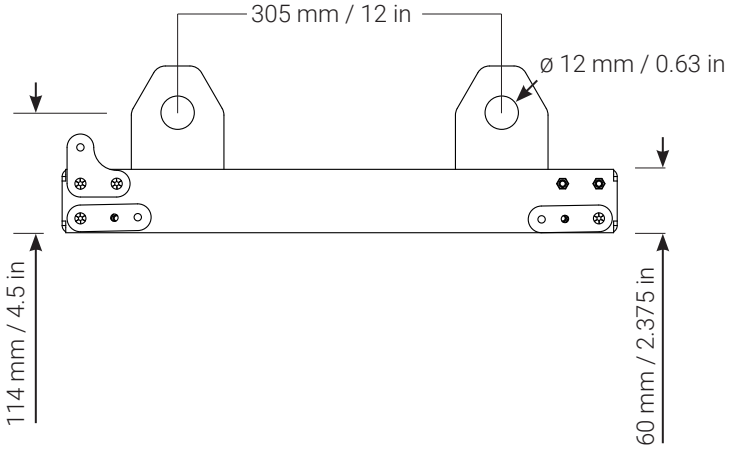
The IS7 & IS118 Rigging Frame can be used to suspend either the IS7 or IS118 cabinets. It can also be used as an additional transition frame between the IS7 and the IS118, either while suspended or while stacking IS7 cabinets on IS118.

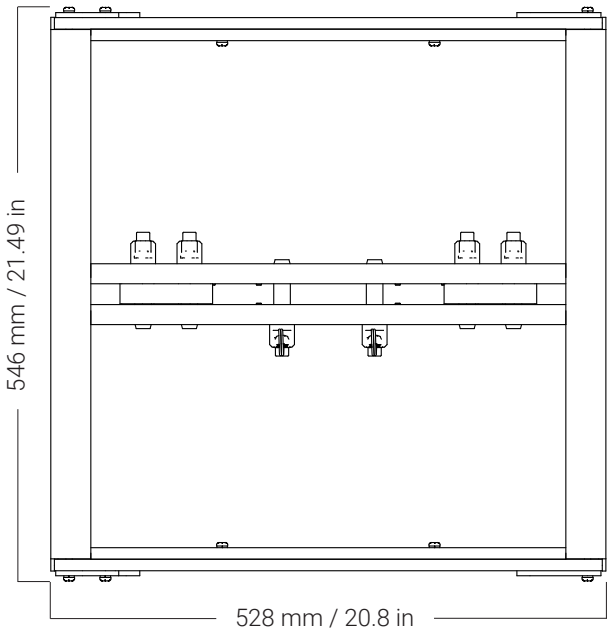
The IS7 & IS118 Rigging Frame's maximum load capacity (765kg / 1686.5 lbs) far exceeds the realistic maximum amount of IS7 or IS118.

In instances where the tilt and curvature of the array causes the centre of gravity to be outside of the depth of the frame, use of the Extended Beam (930-0021) or Moving Point Extended Beam (930-0033) is necessary.



No.	Component	Quantity
1	Rigging Link	4
2	Stacking Link	2
3	Quick-Release Pin	6
4	Lifting Plate	2
5	M6 Screw	16





3.0 Rigging Components

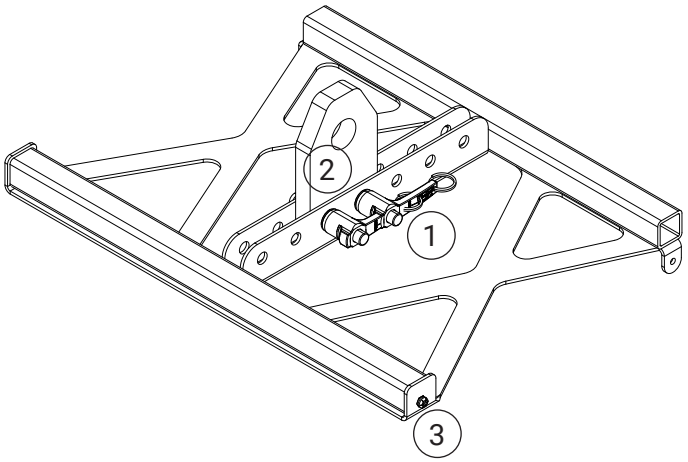
3.1 Accessories

(930-0029) IS7 Micro Frame

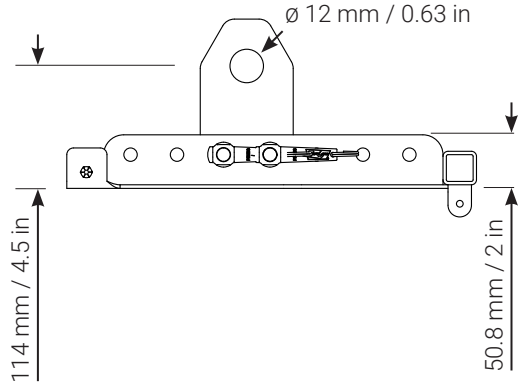
Upon receipt of the product, verify that all components listed below are present.

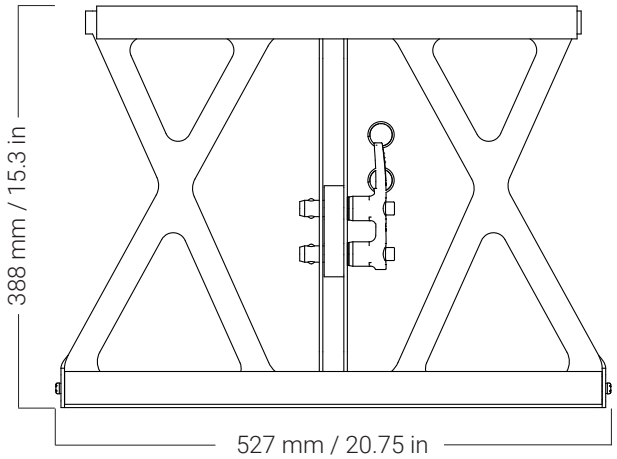
The IS7 Micro Frame can only be used to suspend IS7 cabinets.

The IS7 Micro Frame can be used to suspend a maximum of 8 IS7, provided that the array curvature and overall tilt does not move the centre of gravity outside of the depth of the IS7 Micro Frame. Refer to Blueprint AV for safety limits.



No.	Component	Quantity
1	Quick-Release Pin	2
2	Lifting Plate	1
3	M6 Screw	2





3.0 Rigging Components

3.1 Accessories

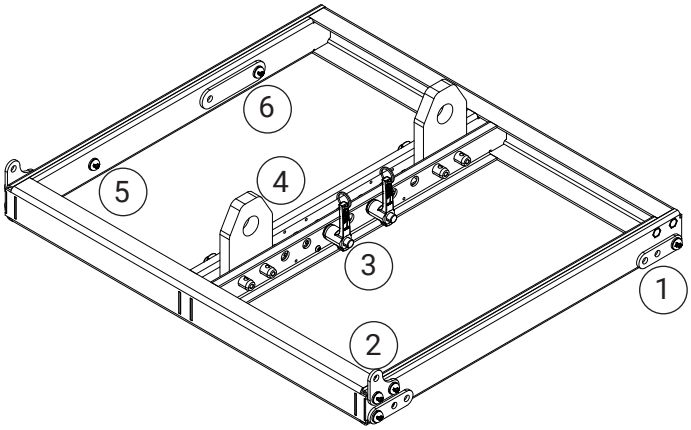
(930-0028) IS10 & IS119 Rigging Frame

Upon receipt of the product, verify that all components listed below are present.

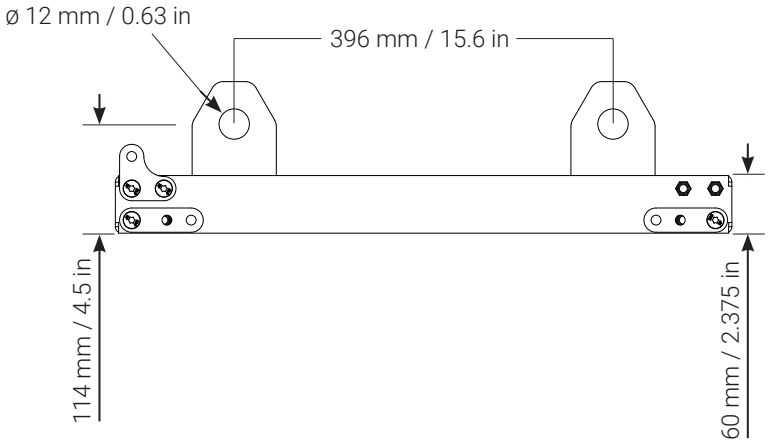
The IS10 & IS119 Rigging Frame can be used to suspend IS10 or IS119 cabinets. It can also be used as an additional transition frame between IS10 cabinets and IS119 cabinets, either while suspended or while stacking IS10 cabinets on IS119 cabinets.

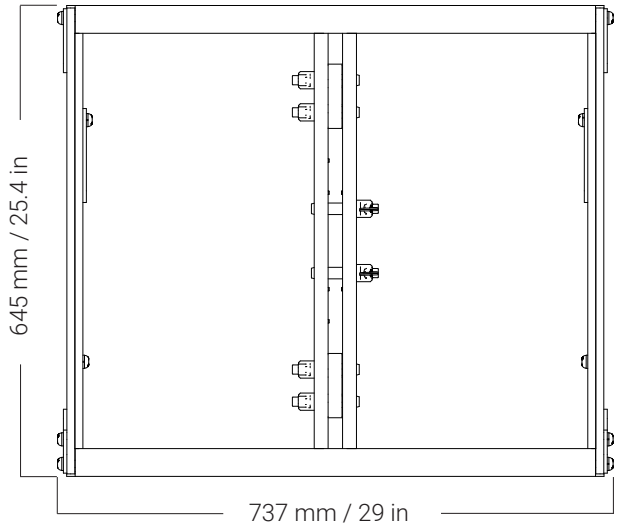
The IS10 & IS119 Rigging Frame has a maximum load capacity of 622 kg / 1371 lbs. The IS10 & IS119 Rigging Frame can be used to suspend a maximum of 23x IS10s, or 12x IS119.

Instances wherein the tilt and curvature of the array causes the centre of gravity to be outside of the depth of the frame, use of the Extended Beam (930-0021) or Moving Point Extended Beam (930-0033) is necessary.



No.	Component	Quantity
1	Rigging Link	4
2	Stacking Link	2
3	Quick-Release Pin	6
4	Lifting Plate	2
5	M6 Screw	16
6	Rear Link	2





3.0 Rigging Components

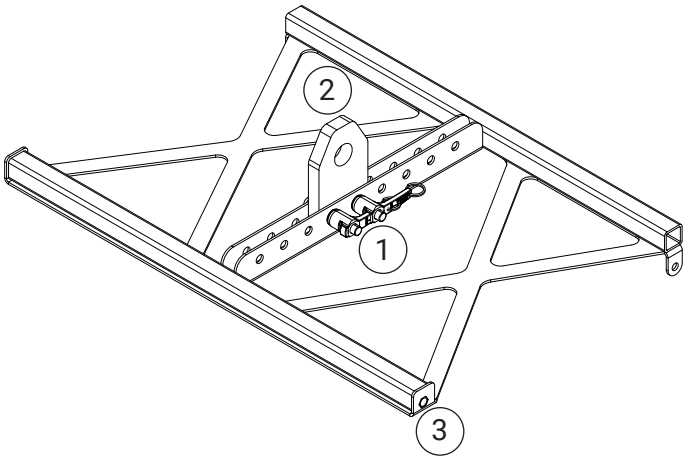
3.1 Accessories

(930-0030) IS10 Micro Frame

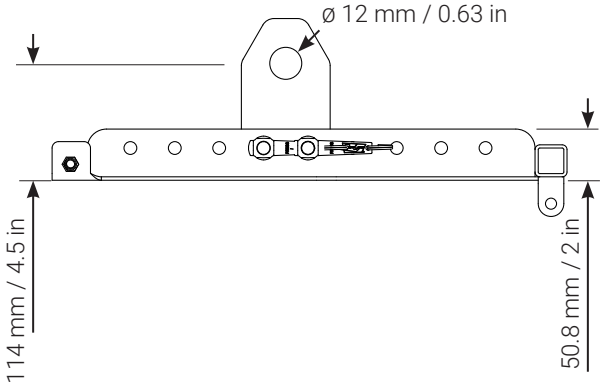
Upon receipt of the product, verify that all components listed below are present.

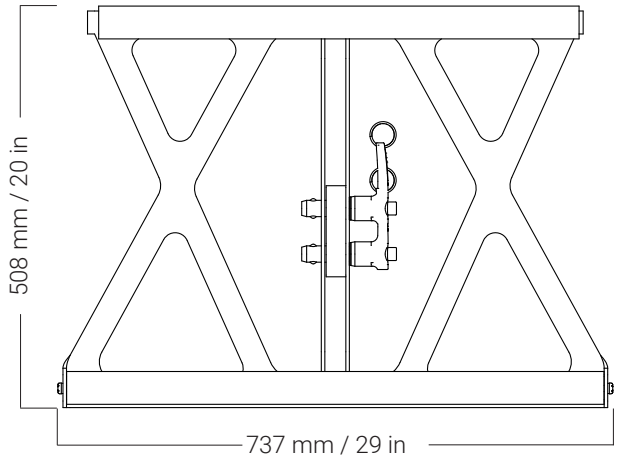
The IS10 Micro Frame can only be used to suspend IS10 cabinets.

The IS10 Micro Frame can be used to suspend a maximum of 4 IS10, provided that the array curvature and overall tilt does not move the centre of gravity outside of the depth of the IS10 Micro Frame. Refer to Blueprint AV for safety limits.



No.	Component	Quantity
1	Quick-Release Pin	2
2	Lifting Plate	1
3	M6 Screw	2





3.0 Rigging Components

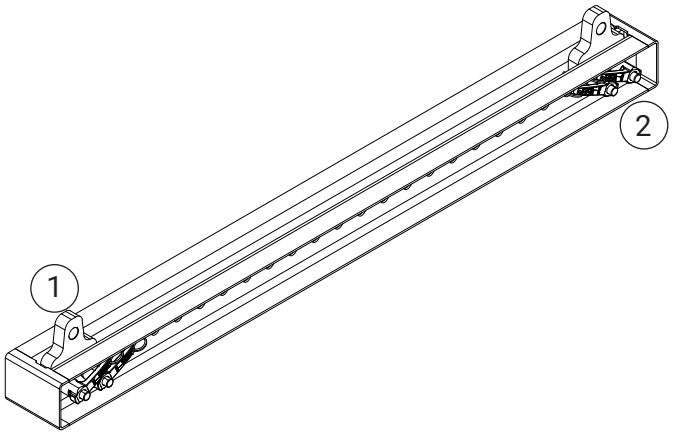
3.1 Accessories

(930-0021) Extended Beam

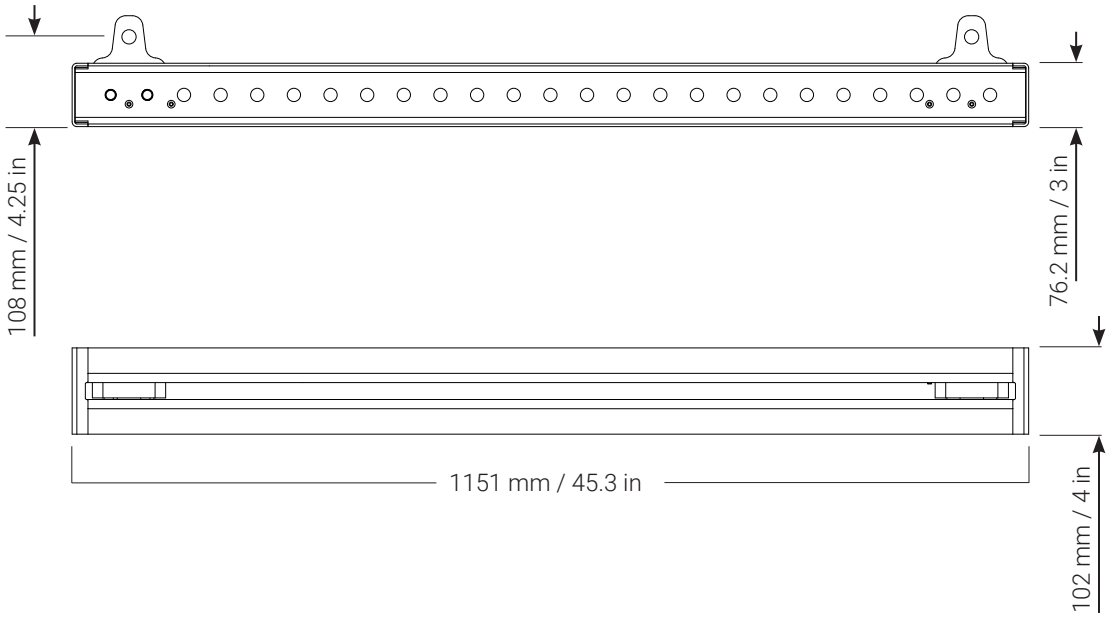
Upon receipt of the product, verify that all components listed below are present.

The Extended Beam can be used in conjunction with either the IS10 & IS119 Rigging Frame, or the IS7 & IS118 Rigging Frame when the array's curvature puts the centre of gravity outside of the depth of the Rigging Frames.

When using the Extended Beam, ensure the weight of the suspended array falls within the load limits of the Rigging Frame being used.



No.	Component	Quantity
1	Extended Beam Plate	2
2	Quick-Release Pin	4



3.0 Rigging Components

3.1 Accessories

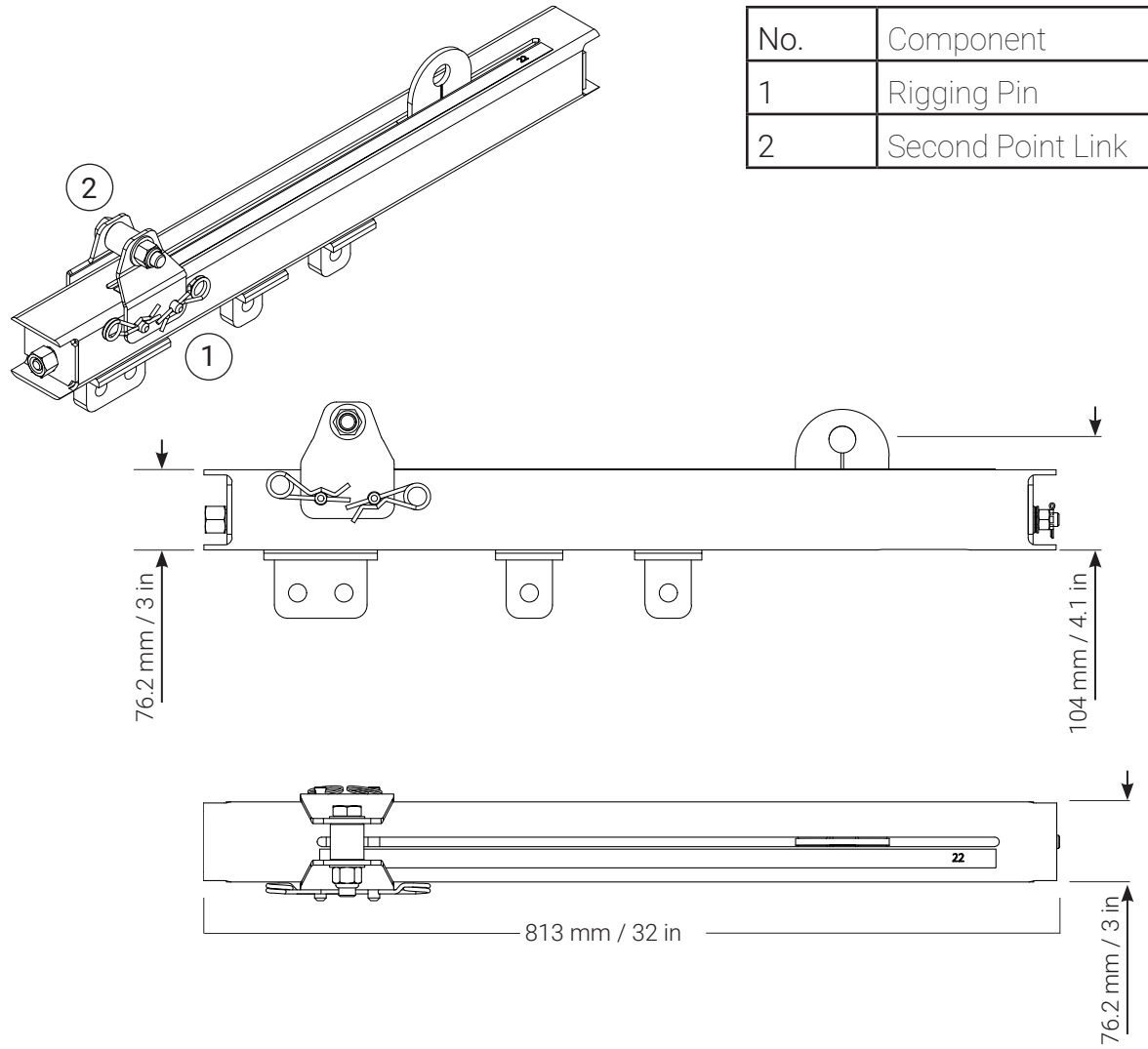
(930-0033) Moving Point Extended Beam

Upon receipt of the product, verify that all components listed below are present.

The Moving Point Extended Beam can be used in conjunction with either the IS10 & IS119 Rigging Frame, or the IS7 & IS118 Rigging Frame when the array's curvature puts the centre of gravity outside of the depth of the Rigging Frames. The moving point allows the user to achieve specific tilt angles when using only a single pick point.

When using the Moving Point Extended Beam, ensure the weight of the suspended array falls within the load limits of the Rigging Frame being used.

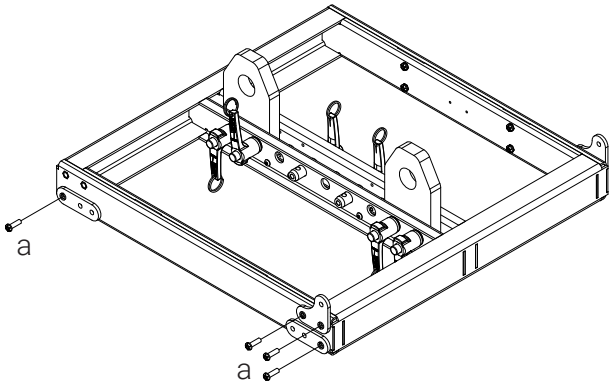
No.	Component	Quantity
1	Rigging Pin	1
2	Second Point Link	2



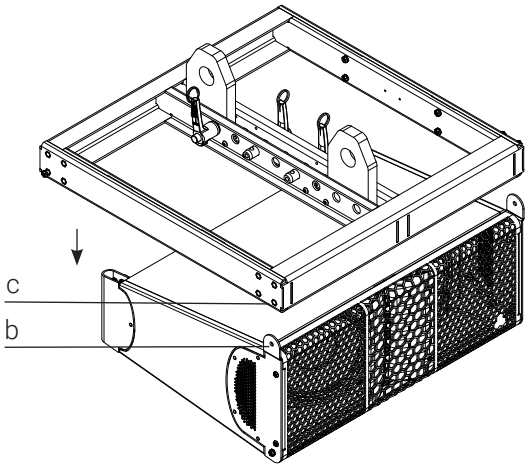
4.0 Rigging Procedures

4.1 Suspending IS7

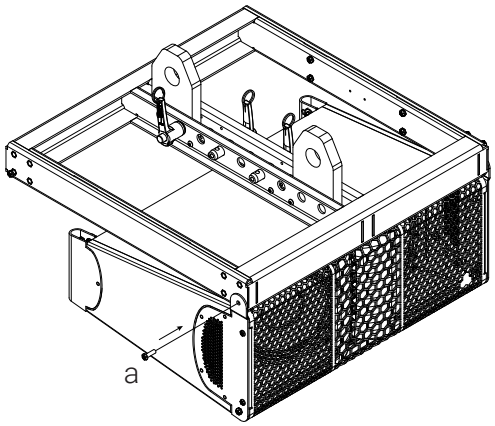
1. Remove all links from the IS7/IS118 Rigging Frame by removing the T25 Torx screws (**a**) affixing them in place. Place the screws in a secure place for future use.



2. Line up the IS7 enclosure front tab (**b**) so that it will match to the bottom front hole (**c**) of the Rigging Frame



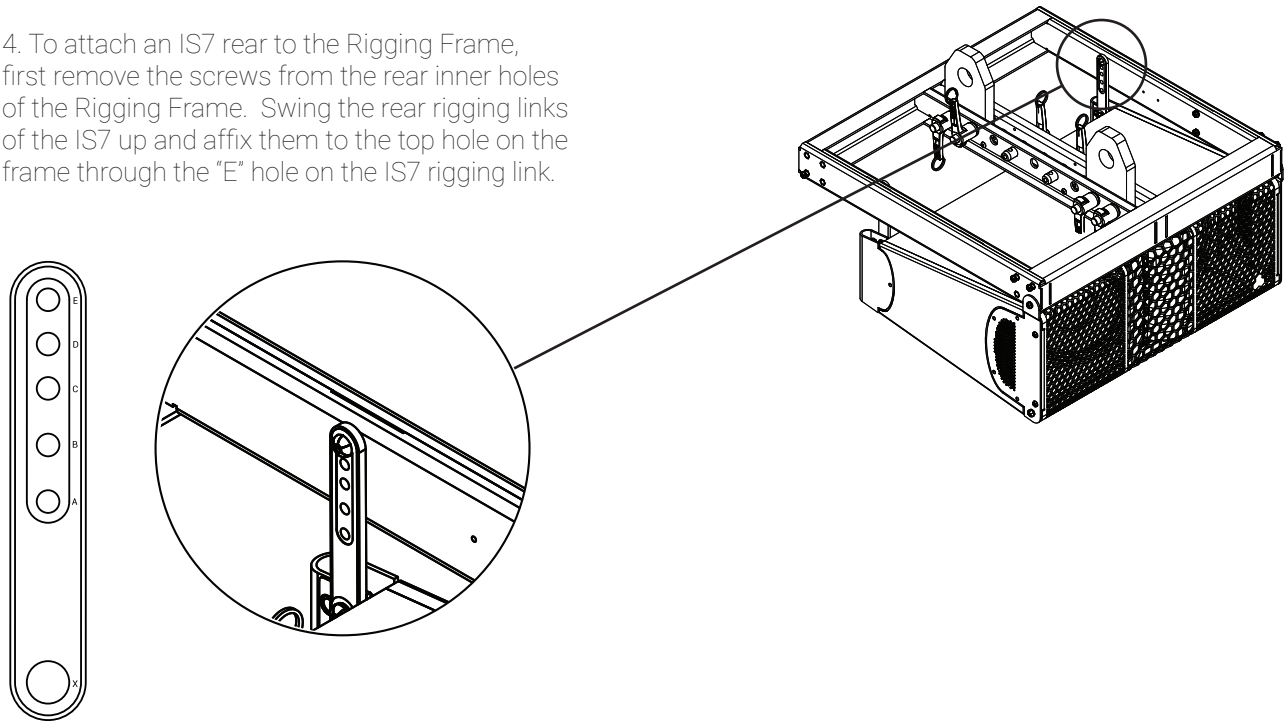
3. Affix the IS7 enclosure through the front tab to the bottom front hole of the frame using the T25 Torx screws (**a**) removed earlier. A torque setting of 6.5 Nm is to be used.



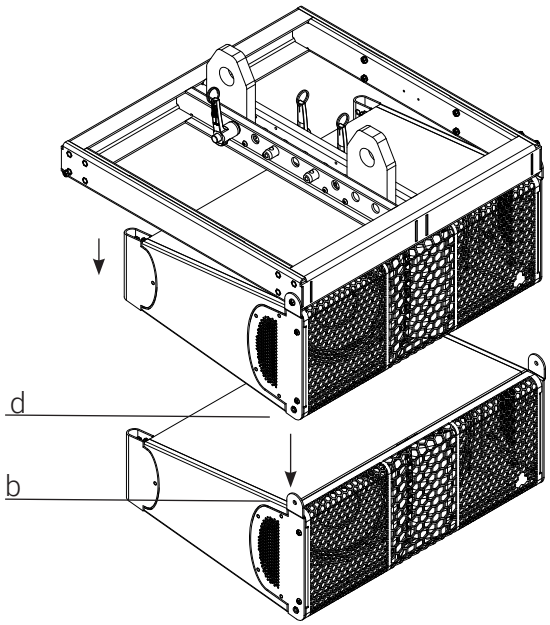
4.0 Rigging Procedures

4.1 Suspending IS7

4. To attach an IS7 rear to the Rigging Frame, first remove the screws from the rear inner holes of the Rigging Frame. Swing the rear rigging links of the IS7 up and affix them to the top hole on the frame through the "E" hole on the IS7 rigging link.



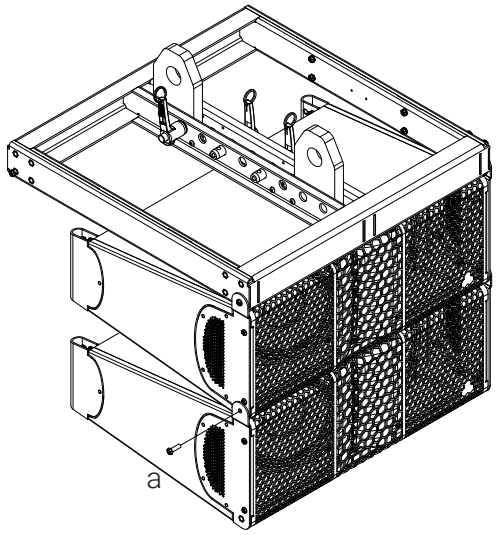
5. Position the next IS7 enclosure underneath the assembled enclosure and frame. Remove the T25 Torx screws from the bottom front holes of the affixed IS7. Lower the frame until the upper enclosure's bottom front hole (**d**) is in-line with the front tab (**b**) of the second IS7 enclosure.



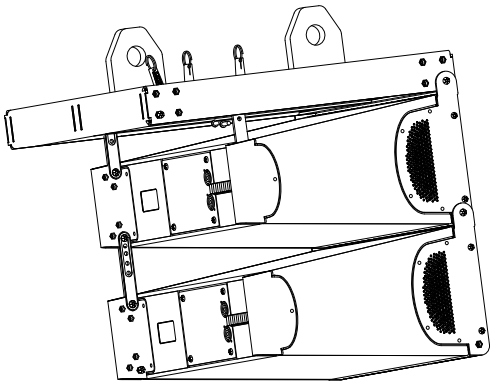
4.0 Rigging Procedures

4.1 Suspending IS7

6. Affix the front of the enclosures together with the T25 Torx screws (**a**) removed earlier. A torque setting of 6.5 Nm is to be used.



7. With the rear rigging link still affixed to the second enclosure via the X hole, swing the rigging link (**fig. 1**) up until the appropriate holes line up to achieve the desired rigging position. Refer to the rigging legend displayed on each IS7 rear rigging piece (**fig. 2**). The rigging positions listed on the legend refer to the rigging position corresponding to the design in Blueprint. Make sure that both left and right rear rigging is set to the identical angle.



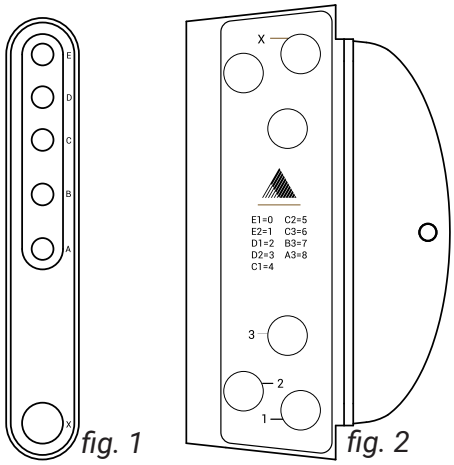


fig. 1

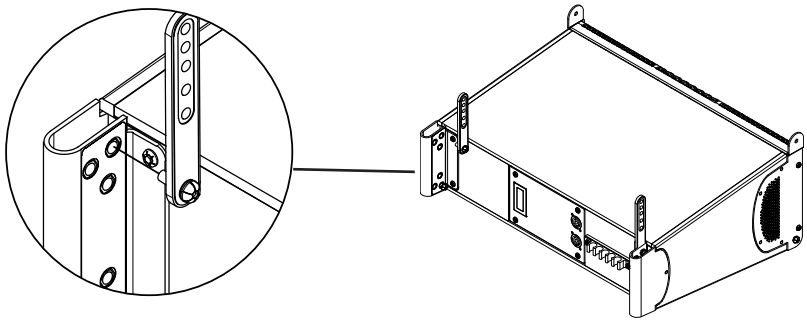
fig. 2

8. Repeat steps 5 through 7 until the desired amount of enclosures are affixed in the array.

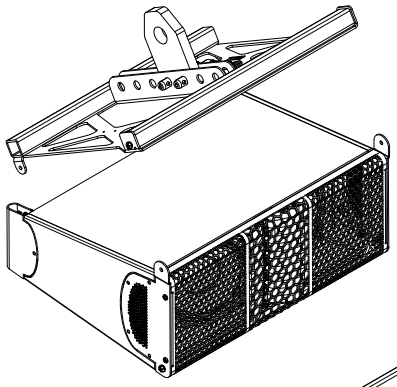
4.0 Rigging Procedures

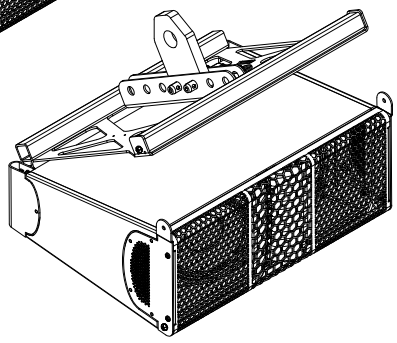
4.2 Suspending IS7 Micro Frame

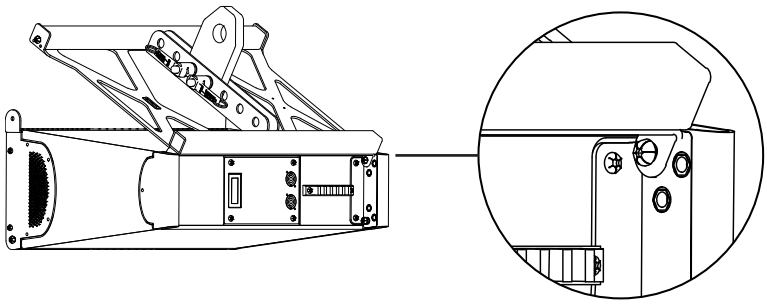
1. Remove the T25 Torx screws, and rear rigging links from the IS7 being attached to the Micro Frame.



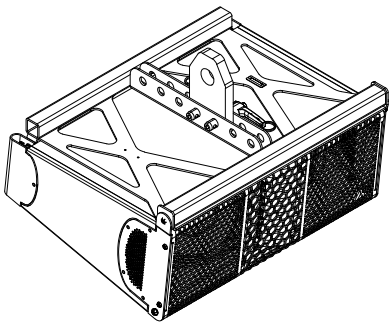
2. With the T25 Torx screws removed earlier, connect the rear of the IS7 Micro Frame to the rear rigging pieces of the IS7, using X hole. A torque setting of 6.5 Nm is to be used.

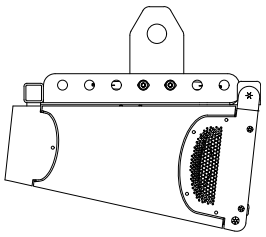






3. Remove the T25 Torx screws from the front of the IS7 Micro Frame. Using these T25 screws, connect the front of the IS7 Micro Frame to the IS7 enclosure front tab. Use a torque setting of 6.5 Nm.



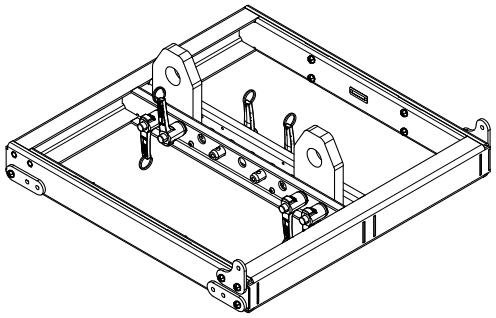


4. Connect additional IS7s as per steps 5 thru 8 of 4.1 Suspending IS7.

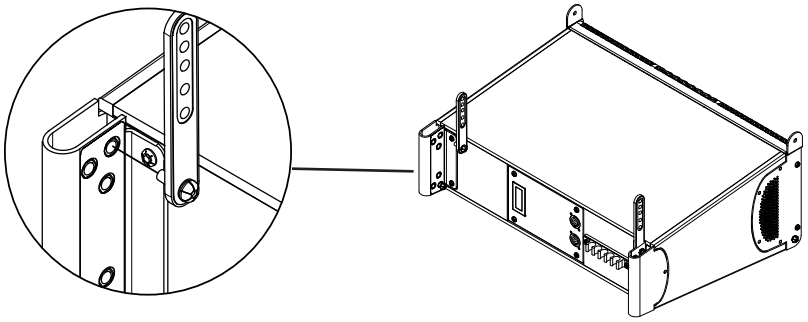
4.0 Rigging Procedures

4.3 Ground Stacking IS7

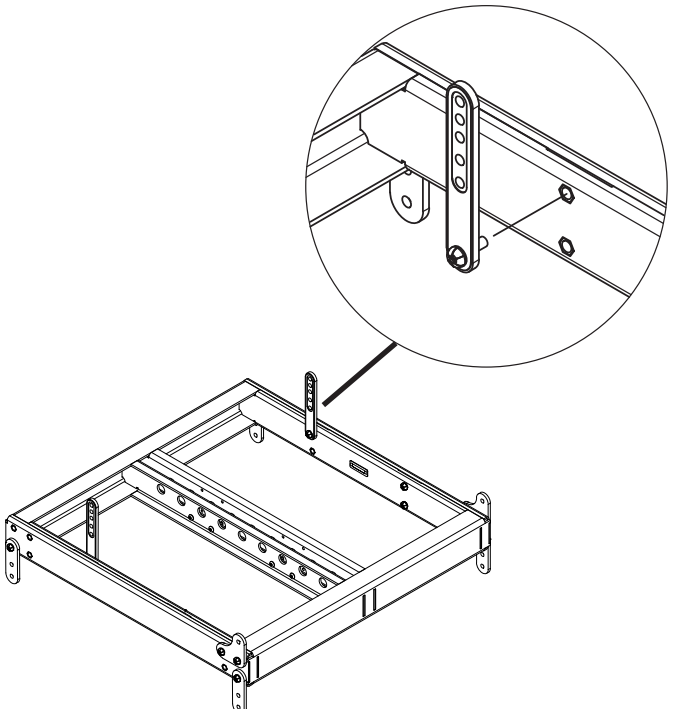
1. Remove all Quick Release L-Handles and the 2 Lifting Plates from the IS7/IS118 Rigging Frame and place them in a secure place for future use.



2. Designate 1 IS7 to be the top cabinet for your stack. Remove the T25 Torx screws and rear rigging links from the rear rigging piece of this cabinet.



3. With the T25 Torx screws removed earlier, attach the rigging links, lining up the X hole of the rigging link to the top hole of the Rigging Frame. Torque setting of 6.5 Nm is to be used.

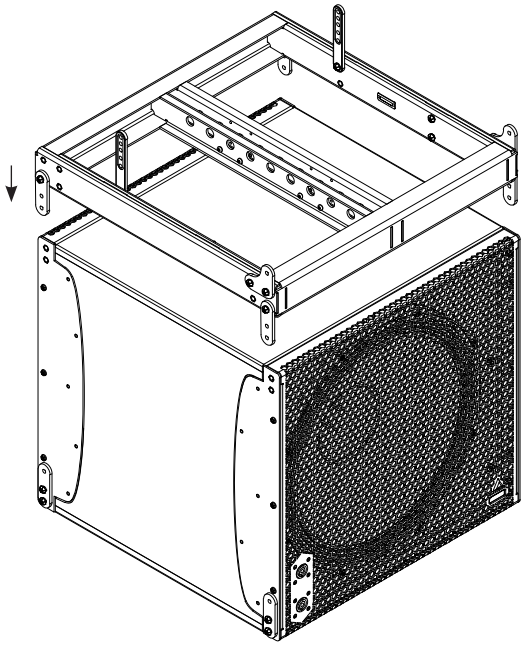


4. Lower the 4x Rigging Frame rigging links on each corner of the Rigging Frame, removing and loosening the T25 Torx screws as necessary.

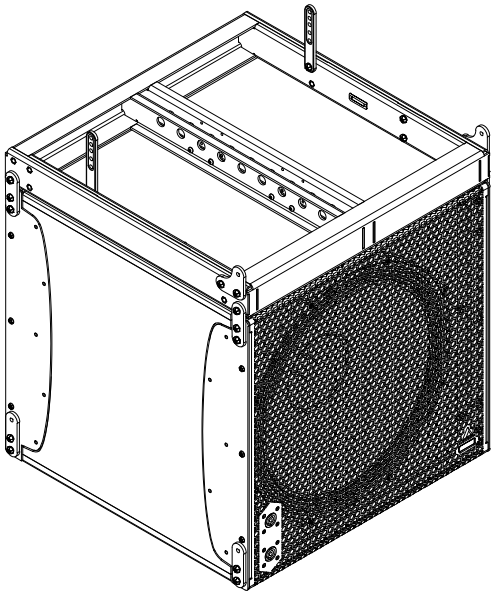
4.0 Rigging Procedures

4.3 Ground Stacking IS7

5. Position the Rigging Frame by lining up each corner rigging link of the Rigging Frame with the sides of the IS118.



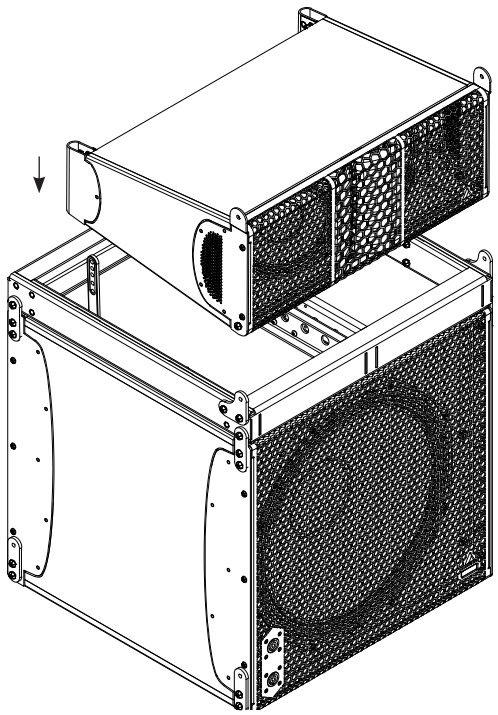
6. Connect the rigging links to the IS118 using the T25 screws removed earlier. 8 screws are needed in total, 2 bolts per corner rigging link. Use a torque setting of 6.5 Nm.



4.0 Rigging Procedures

4.3 Ground Stacking IS7

7. Remove the T25 Torx screws from the bottom front holes of an IS7. Position the IS7 onto the Rigging Frame. The bottom front corners of the IS7 line up with the stacking links attached to the Rigging Frame. Use the T25 Torx screws removed earlier to connect the IS7 to the Rigging Frame stacking links. Torque setting - 6.5 Nm.



8. With the rear rigging link (**fig. 1**) still affixed to the Rigging Frame, swing the rigging link up until the appropriate holes line up to achieve the desired rigging position. Refer to the IS7 Ground Stacking Rigging Frame Angle Chart below (**fig. 3**) matching the appropriate Rigging Link Letter and Rear Rigging Piece Number (**fig. 2**) to achieve the desired angle per the Blueprint design. Make sure that both left and right rear rigging are set to the identical angle..

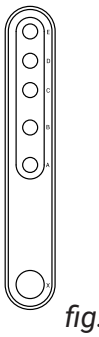


fig. 1

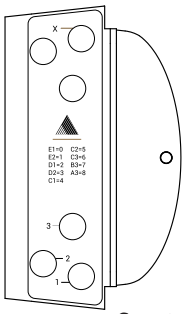
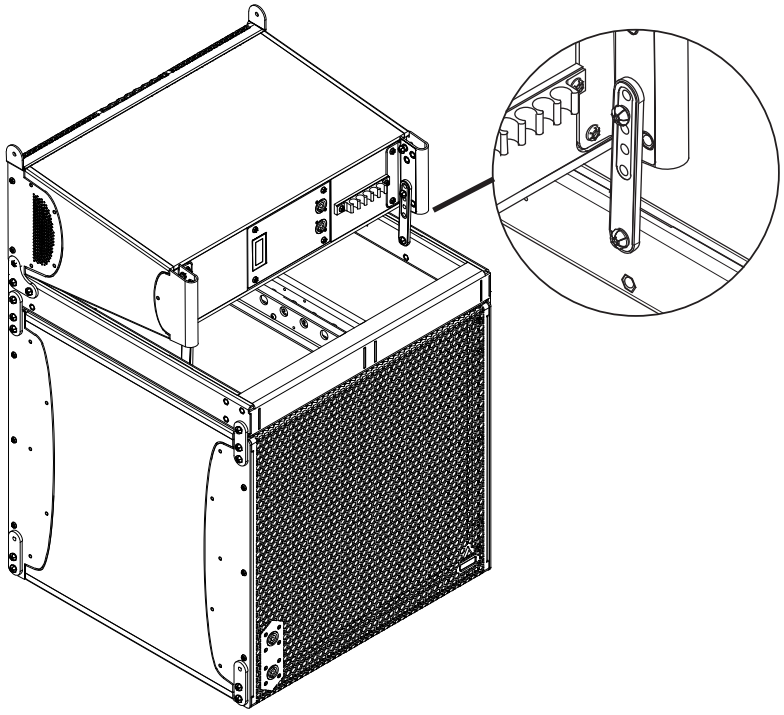


fig. 2



IS7 Ground Stacking Rigging Frame Angle Chart

	A	B	C	D	E
1	+3°	+1°	-2°	-4°	-6°
2	+5°	+2°	-1°	-3°	-5°
3	+6°	+4°	+2°	0°	-2°

fig. 3

* Tolerance of specified angles +/- 0.25°

4.0 Rigging Procedures

4.3 Ground Stacking IS7

9. To stack additional IS7s, position the IS7 above the stack already completed. Swing the rear rigging links (**fig. 1**) still affixed to the IS7 (hole X) until the appropriate holes line up to achieve the desired rigging position. Refer to the rigging legend displayed on each IS7 rear rigging piece (**fig. 2**). The rigging positions listed on the legend refer to the rigging position corresponding to the design in Blueprint. Make sure that both left and right rear rigging positions are set to the identical angle.

10. For additional IS7s, repeat step 9.

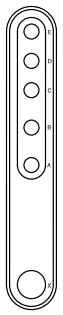


fig. 1

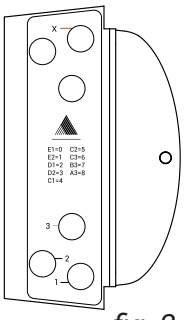
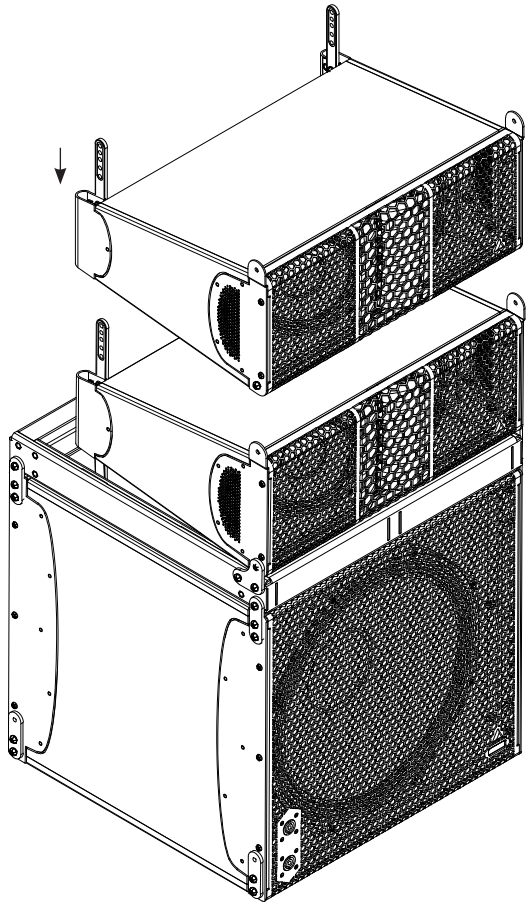
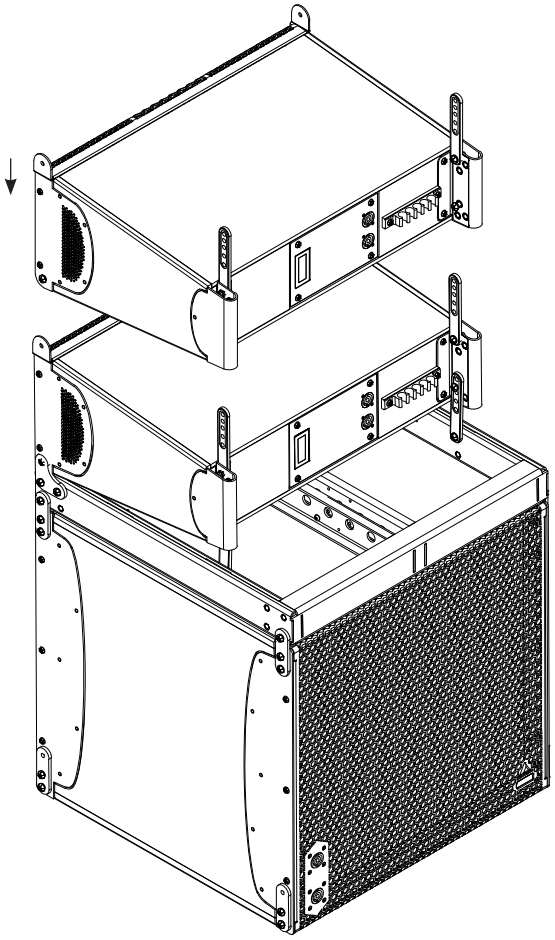


fig. 2

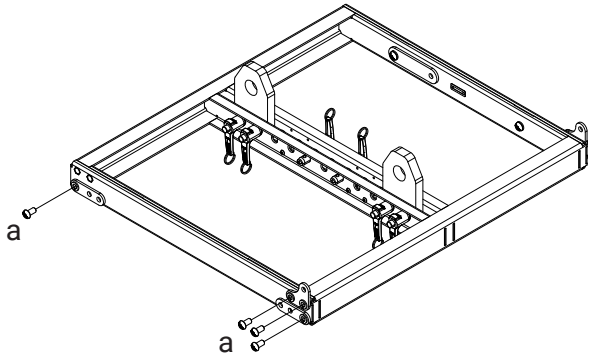




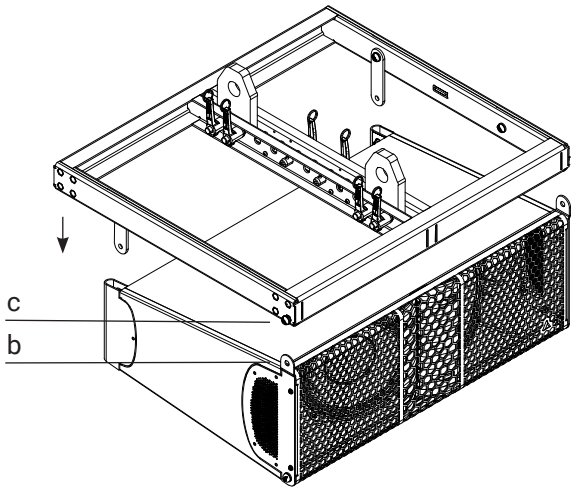
4.0 Rigging Procedures

4.4 Suspending IS10

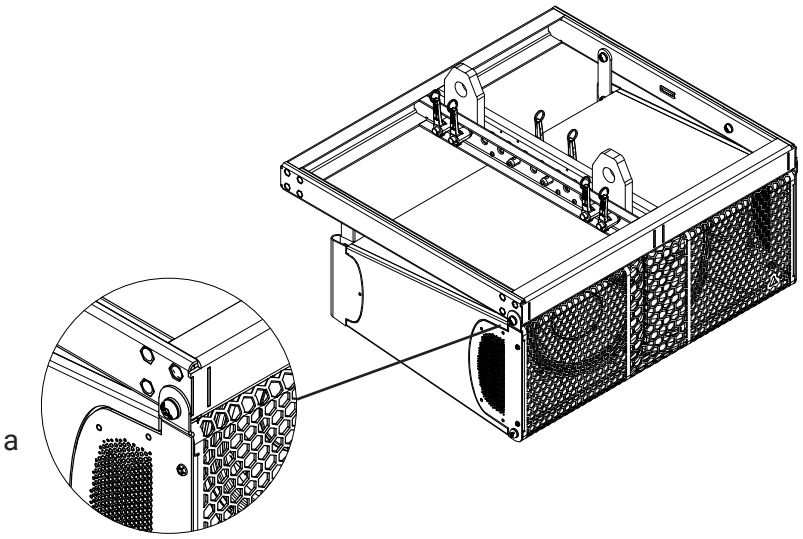
1. Remove all links from the Rigging Frame by removing the T45 Torx screws (**a**) affixing them in place. Place the screws in a secure place for future use.



2. Line up the IS10 enclosure front tab (**b**) so that it will match to the bottom front hole (**c**) of the Rigging Frame



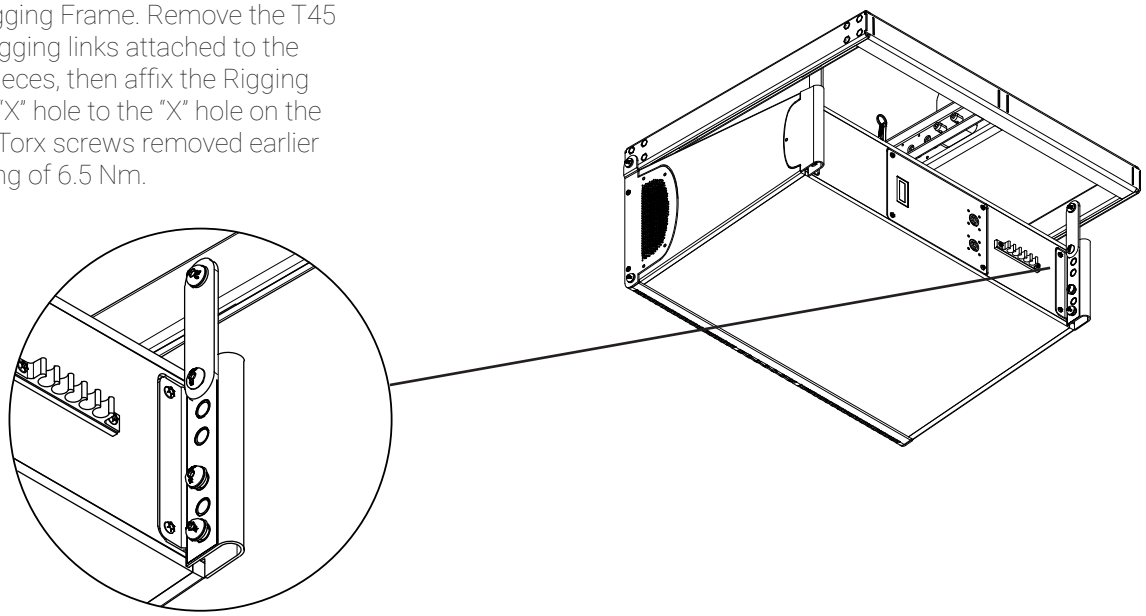
3. Affix the IS10 enclosure through the front tab to the bottom front hole of the Rigging Frame using the T45 Torx screws (**a**) removed earlier. A torque setting of 6.5 Nm is to be used.



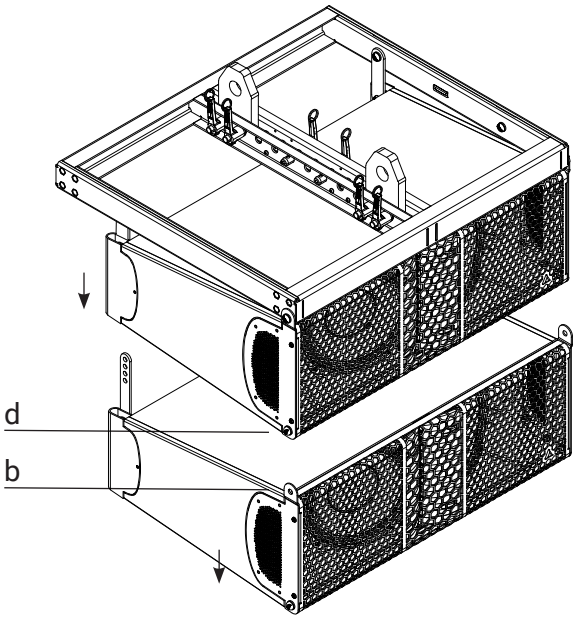
4.0 Rigging Procedures

4.4 Suspending IS10

4. To attach the rear of an IS10 to the Rigging Frame, simply use the rigging link that comes attached to the Rigging Frame. Remove the T45 Torx screws and rigging links attached to the IS10 rear rigging pieces, then affix the Rigging Frame rigging link "X" hole to the "X" hole on the IS10. Use the T45 Torx screws removed earlier with a torque setting of 6.5 Nm.



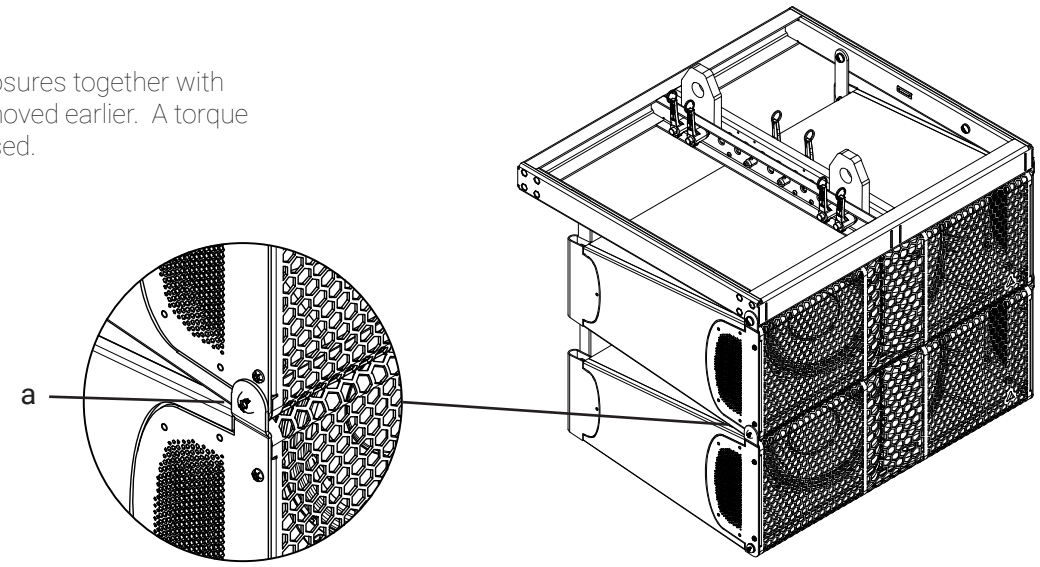
5. Position the next IS10 enclosure underneath the assembled enclosure and frame. Remove the T45 Torx screws from the bottom front holes of the affixed IS10. Lower the frame until the upper enclosure's bottom front hole (**d**) is in-line with the front tab (**b**) of the second IS10 enclosure.



4.0 Rigging Procedures

4.4 Suspending IS10

6. Affix the front of the enclosures together with the T45 Torx screws (**a**) removed earlier. A torque setting of 6.5 Nm is to be used.



7. With the rear rigging link still affixed to the second enclosure via the X hole, swing the rigging link (**fig. 4**) up until the appropriate holes line up to achieve the desired rigging position. Refer to the rigging legend displayed on each IS10 rear rigging piece (**fig. 5**). The rigging positions listed on the legend refer to the rigging position corresponding to the design in Blueprint. Make sure that both left and right rear rigging positions are set to the identical angle.

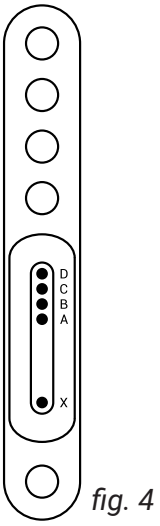


fig. 4

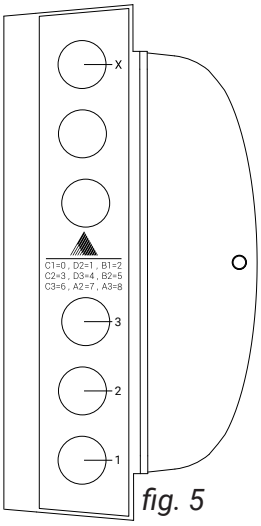
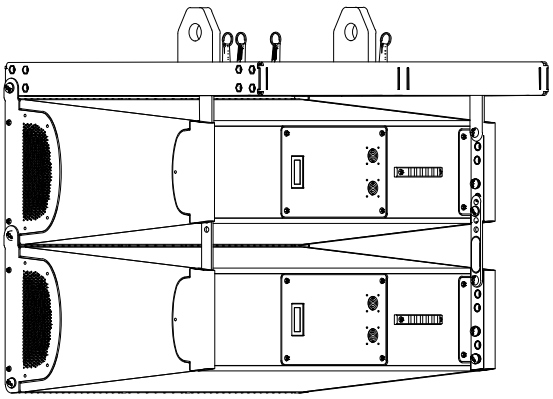


fig. 5

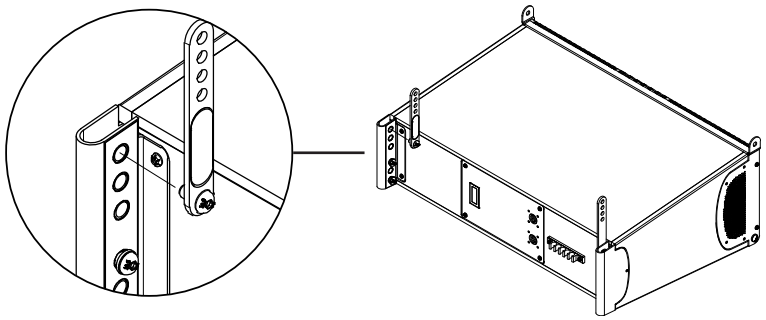


8. Repeat steps 5 through 7 until the desired amount of enclosures are affixed in the array.

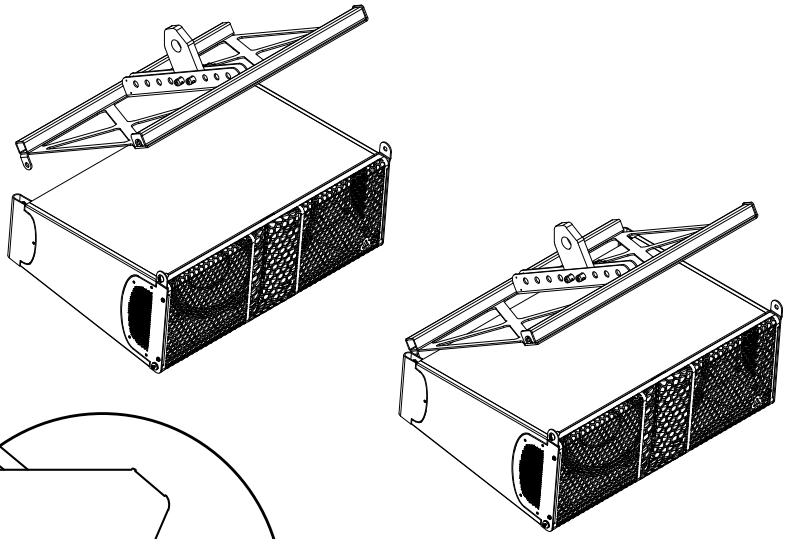
4.0 Rigging Procedures

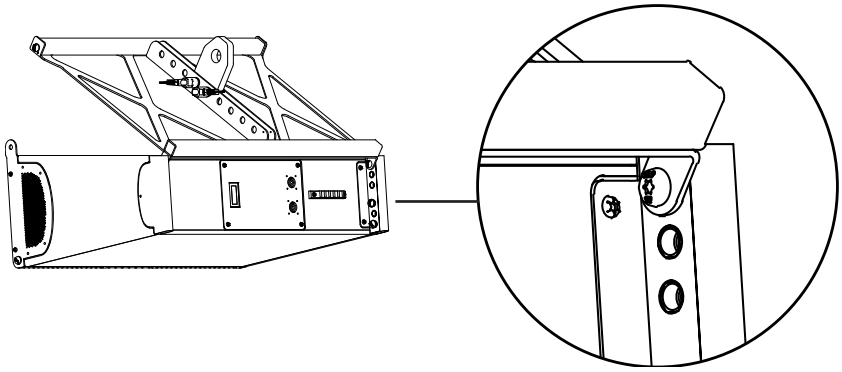
4.5 Suspending IS10 Micro Frame

1. Remove the T45 Torx screws, and rear rigging links from the IS10 being attached to the Micro Frame.

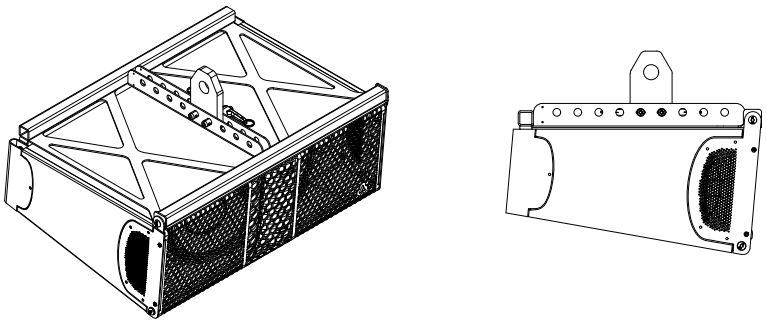


2. With the T45 Torx screws removed earlier, connect the rear of the IS10 Micro Frame to the rear rigging pieces of the IS10, using X hole. A torque setting of 6.5 Nm is to be used.





3. Remove the T45 Torx screws from the front of the IS10 Micro Frame. Using these T45 screws, connect the front of the IS10 Micro Frame to the IS10 enclosure front tab. Use a torque setting of 6.5 Nm.

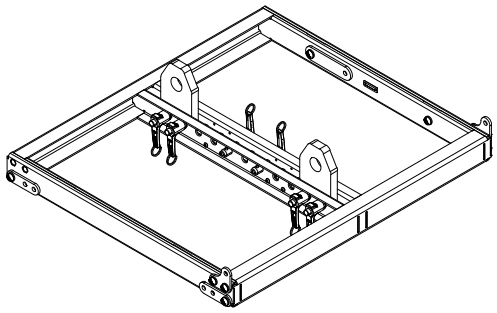


3. Connect additional IS10s as per steps 5 thru 8 of 4.4 Suspending IS10 to a maximum of 4.

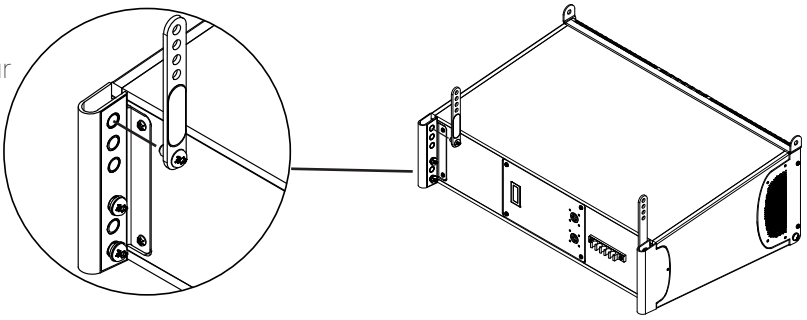
4.0 Rigging Procedures

4.6 Ground Stacking IS10

1. Remove all Quick Release L-Handles and the 2 Lifting Plates as well as the Rigging Links from the IS10/IS119 Rigging Frame and place them in a secure place for future use.

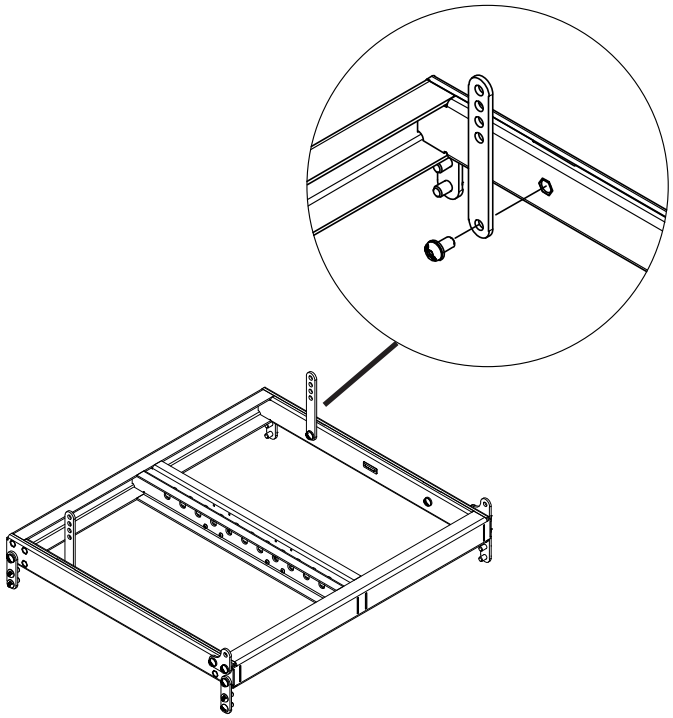


2. Designate 1 IS10 to be the top cabinet for your stack. Remove the T45 Torx screws and rear rigging links from the rear rigging piece of this cabinet.



3. With the T45 Torx screws removed earlier, attach the rigging links, lining up the X hole of the rigging link to the hole of the Rigging Frame. Torque setting of 6.5 Nm is to be used.

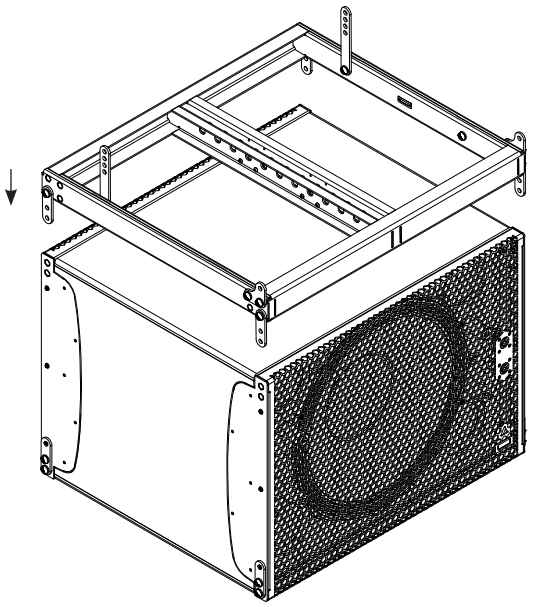
4. Lower the 4x Rigging Frame rigging links on each corner of the Rigging Frame, removing and loosening the T45 Torx screws as necessary.



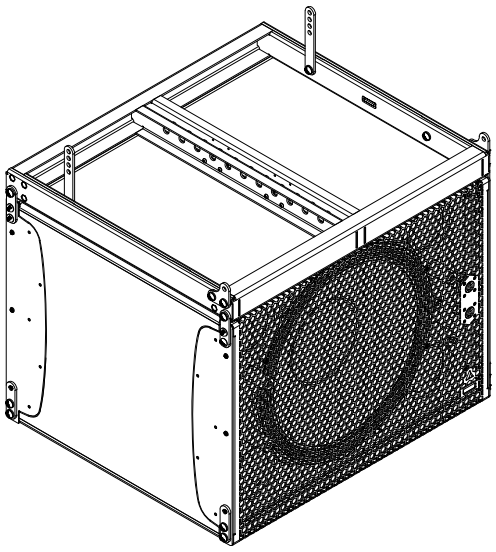
4.0 Rigging Procedures

4.6 Ground Stacking IS10

5. Position the Rigging Frame over the IS119, lining each corner rigging link of the Rigging Frame with the sides of the IS119.

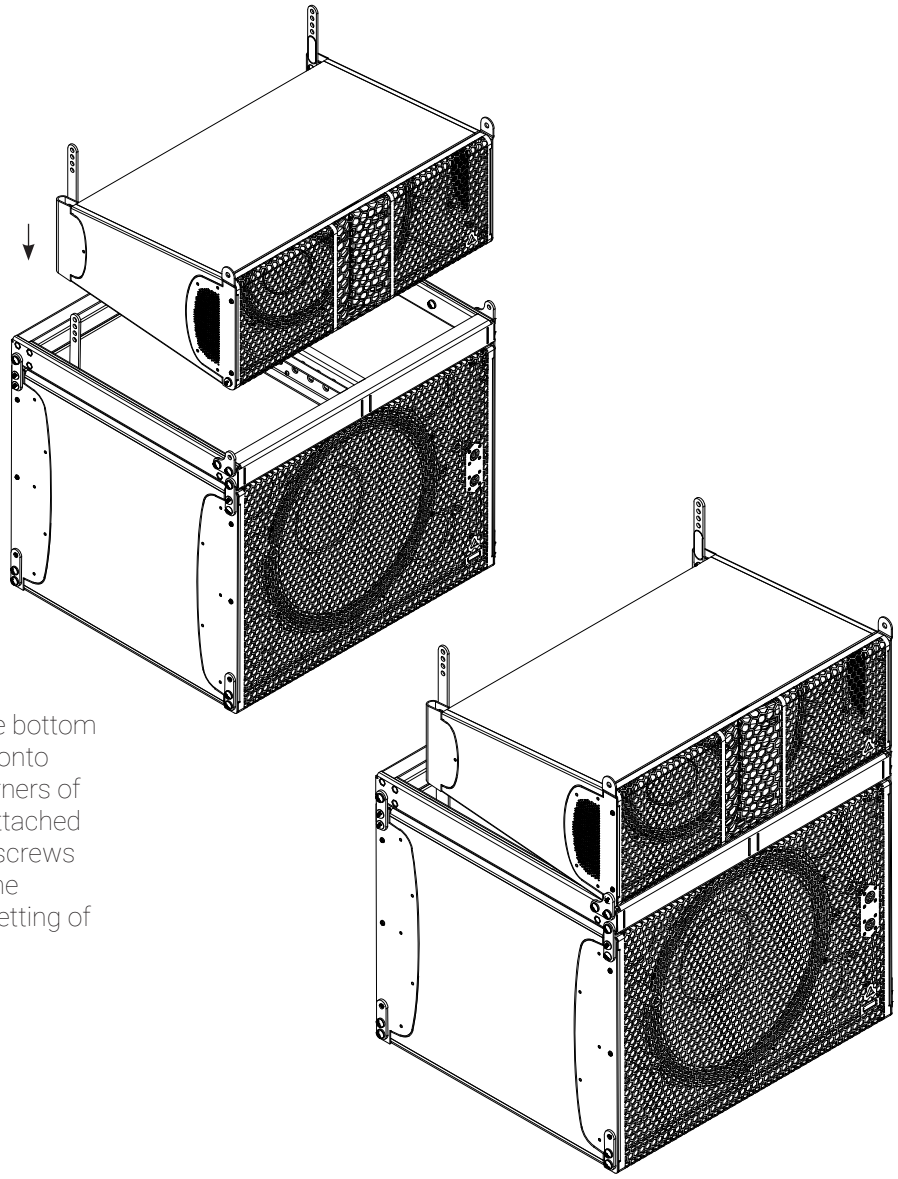


6. 2x T45 screws per corner connect each rigging link to the IS119. Use torque setting of 6.5 Nm.



4.0 Rigging Procedures

4.6 Ground Stacking IS10

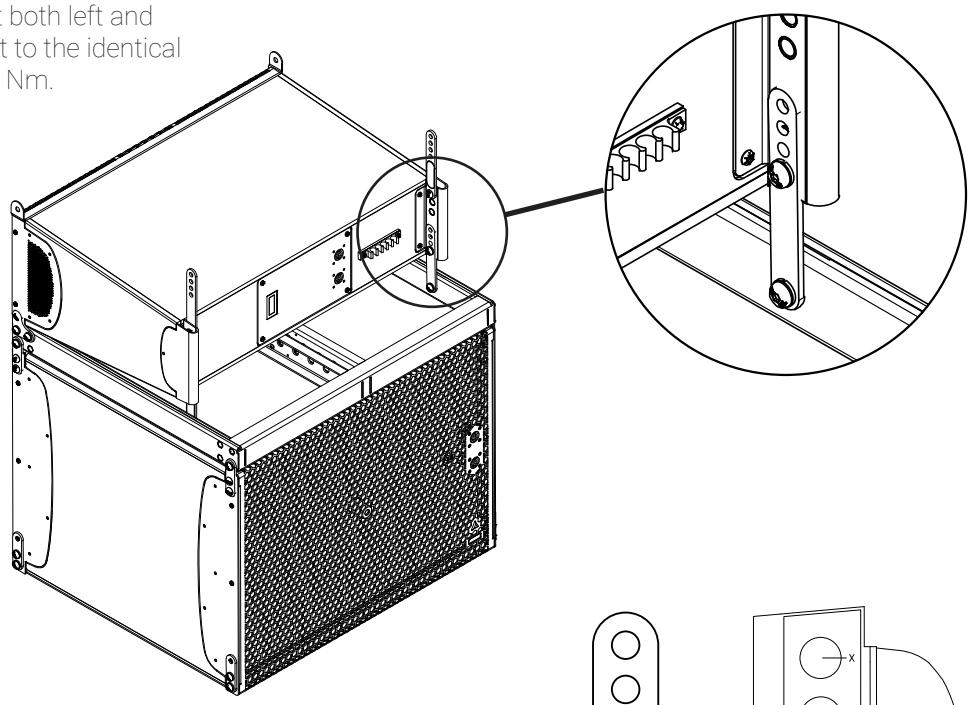


7. Remove the T45 Torx screws from the bottom front holes of an IS10. Position the IS10 onto the Rigging Frame. The bottom front corners of the IS10 line up with the stacking links attached to the Rigging Frame. Use the T45 Torx screws removed earlier to connect the IS10 to the Rigging Frame stacking links. A torque setting of 6.5 Nm is to be used.

4.0 Rigging Procedures

4.6 Ground Stacking IS10

8. With the rear rigging link still affixed to the Rigging Frame, swing the rigging link (**fig. 4**) up until the appropriate holes line up to achieve the desired rigging position as per the Blueprint design. Refer to the IS10 Ground Stacking Rigging Frame Angle Chart below (**fig. 6**) matching the appropriate Rigging Link Letter and Rear Rigging Piece Number (**fig. 5**) to achieve the desired angle. Make sure that both left and right rear rigging positions are set to the identical angle. Use a torque setting of 6.5 Nm.



IS10 Ground Stacking Rigging Frame Angle Chart

	A	B	C	D
1	+0°	-2°	-4°	-6°
2	+3°	+1°	-1°	-3°
3	N/A	+4°	+2°	0°

fig. 6

* Tolerance of specified angles +/- 0.25°

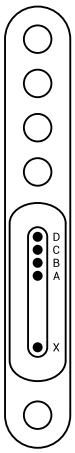


fig. 4

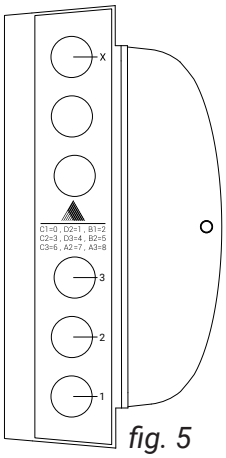


fig. 5

4.0 Rigging Procedures

4.6 Ground Stacking IS10

9. To stack additional IS10s, position the next IS10 above the stack already completed. Swing the rear rigging links (**fig. 4**) still affixed to the IS10 (hole X) until the appropriate holes line up to achieve the desired rigging position. Refer to the rigging legend displayed on each IS10 rear rigging piece (**fig. 5**). The rigging positions listed on the legend refer to the rigging position corresponding to the design in Blueprint. Make sure that both left and right rear rigging positions are set to the identical angle.

10. For additional IS10s, repeat step 9.

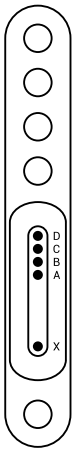


fig. 4

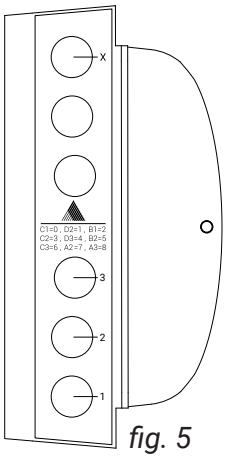
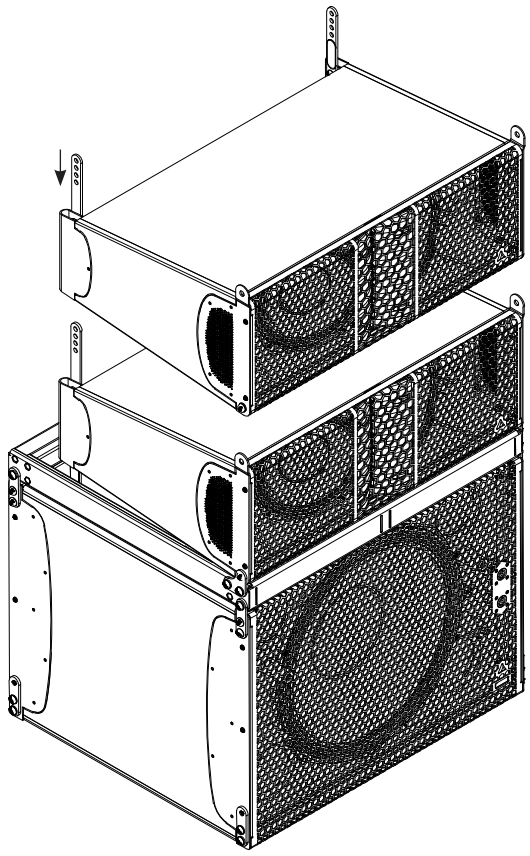
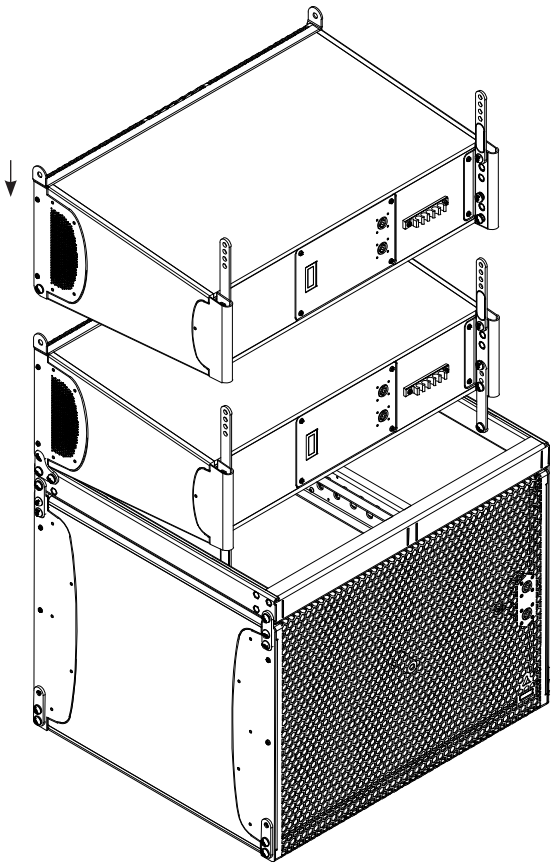


fig. 5





4.0 Rigging Procedures

4.7 Suspending IS118

1. Affix the rigging links on the subwoofer so that the ends with two screw holes are affixed to each corner of the subwoofer with the T25 screws supplied. (**fig. 5**)

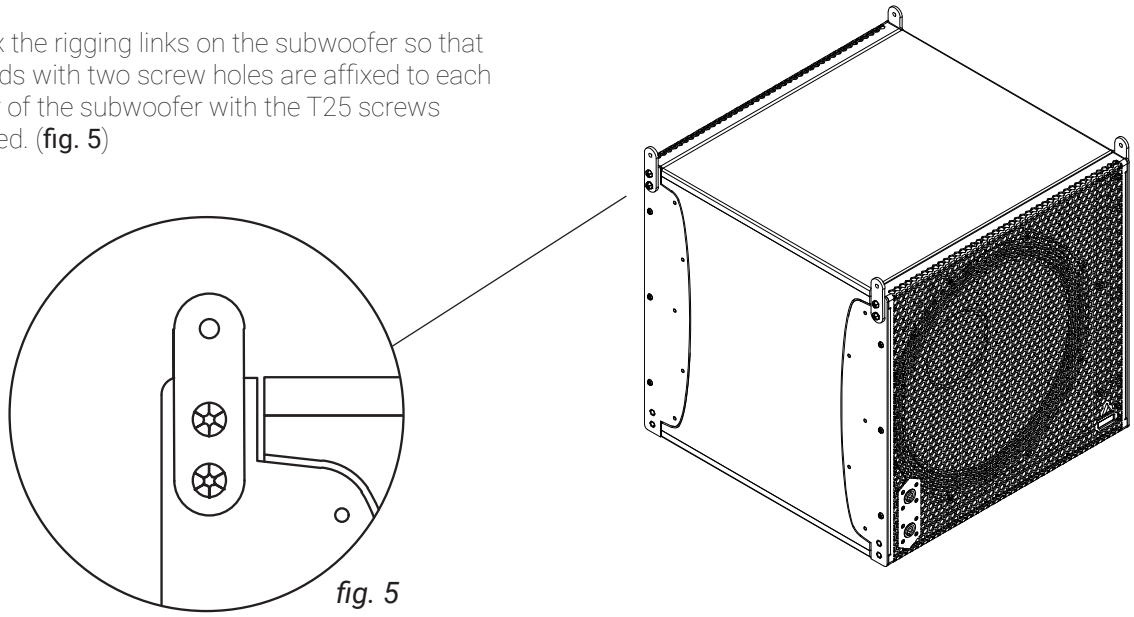
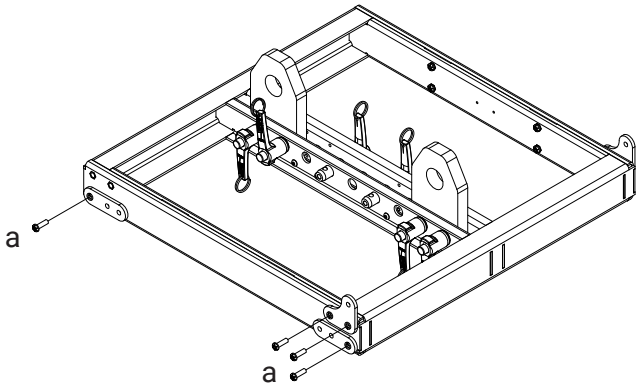


fig. 5

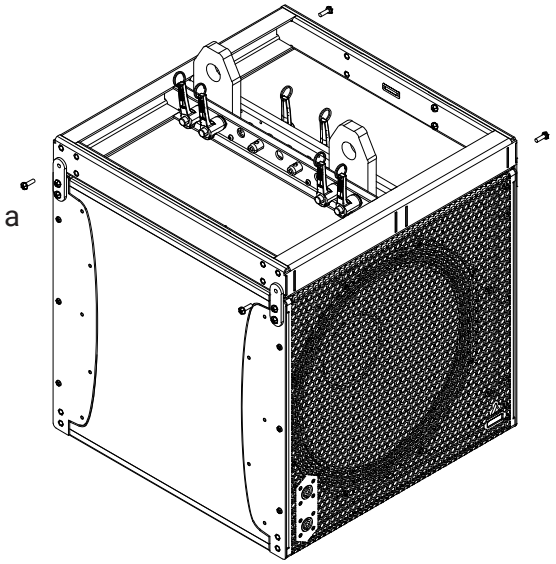
2. Remove all links from the Rigging Frame by removing the T25 Torx screws (**a**) affixing them in place. Place the screws in a secure place for future use.



4.0 Rigging Procedures

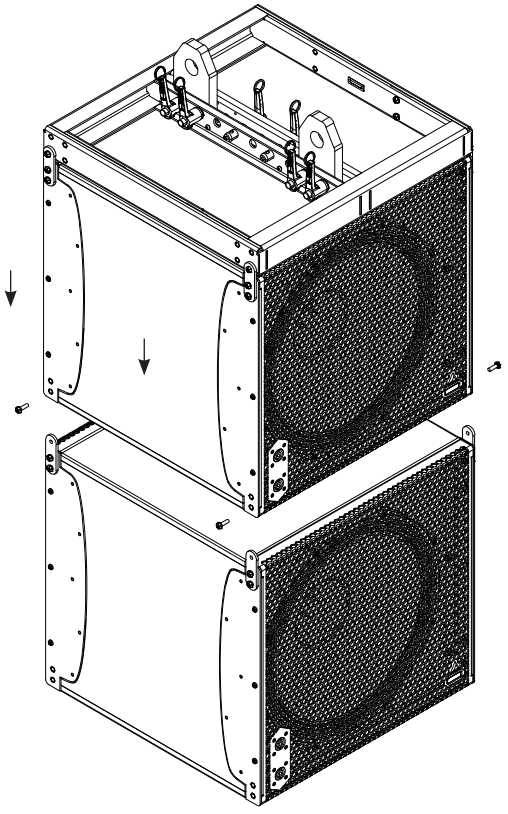
4.7 Suspending IS118

3. Affix the rigging links on all four corners of the subwoofer to the Rigging Frame with the T25 Torx screws (**a**) removed in the last step. Lift the Rigging Frame with the subwoofer attached.



4. Repeat step 1 with the next subwoofer.

5. Place the second subwoofer underneath the flown subwoofer and support frame. Remove the T25 Torx screws on the bottom four corners of the flown subwoofer and set them aside. Make sure the subwoofer is placed in the correct direction according to the intended application *(if using cardioid presets, verify that the subwoofers are oriented properly).*



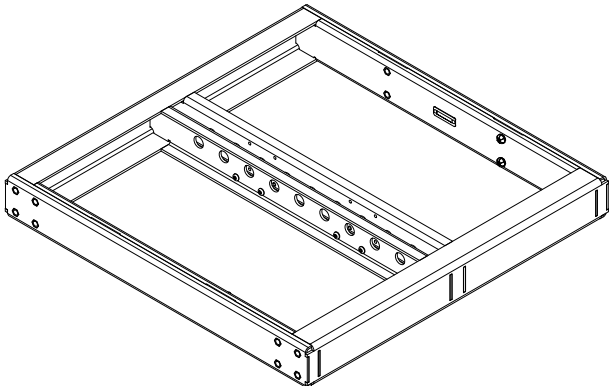
6. Lower the flown subwoofer onto the second subwoofer and affix them together using the T25 Torx screws set aside in the previous step.

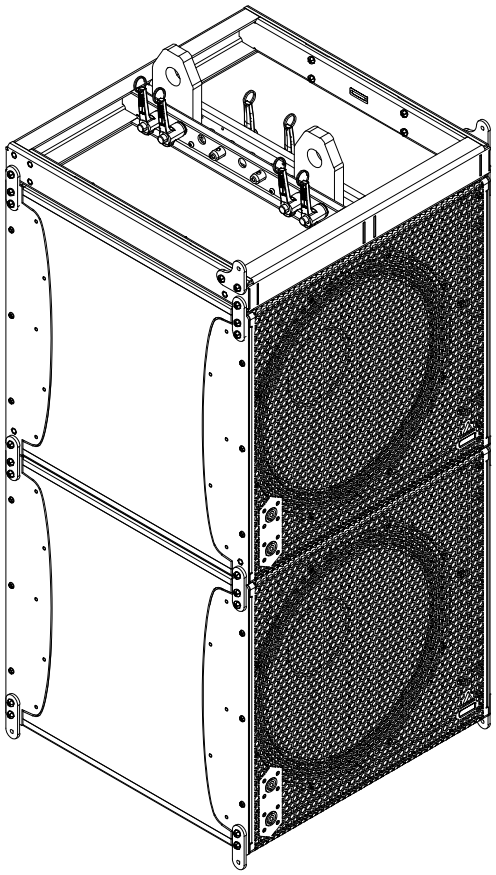
7. Repeat steps 4 through 6 for any further subwoofers in the array.

4.0 Rigging Procedures

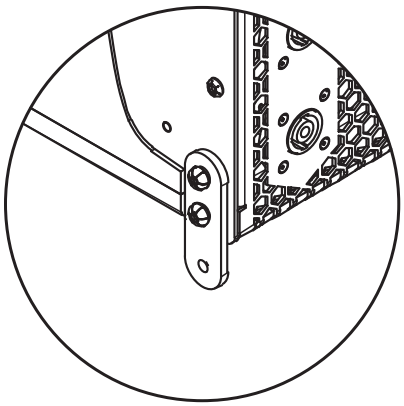
4.8 Suspending IS7s below IS118s

1. After completing 'Suspending IS118s' to the desired number of IS118s, prepare a second IS7/IS118 Rigging Frame by removing all Quick Release L-Handles and the 2 Lifting Plates as well as all links,





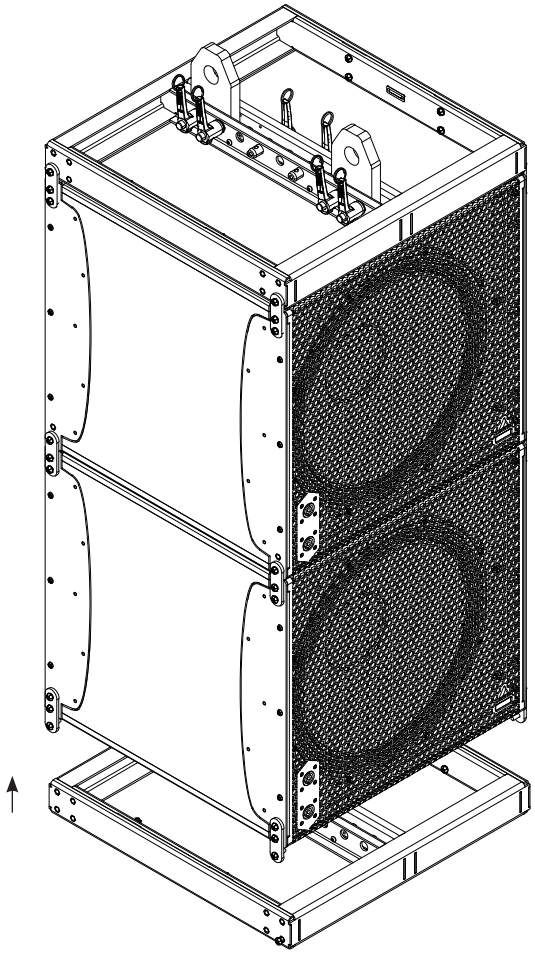
2. Prepare the bottom IS118 by affixing the Rigging Links so that the 2 screw holes are affixed to each corner of the subwoofer with T25 screws.



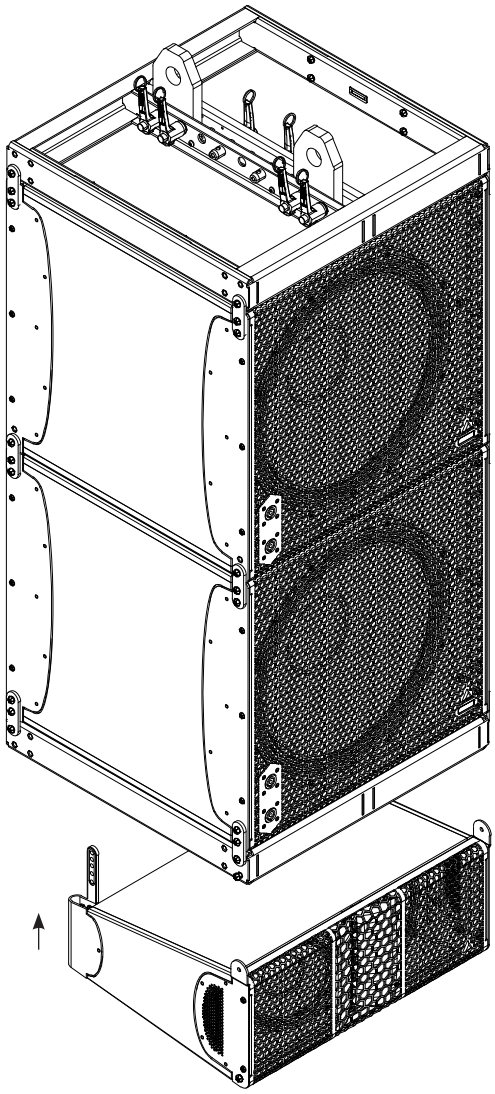
4.0 Rigging Procedures

4.8 Suspending IS7s below IS118s

3. Affix the Rigging Frame to the Rigging Links.



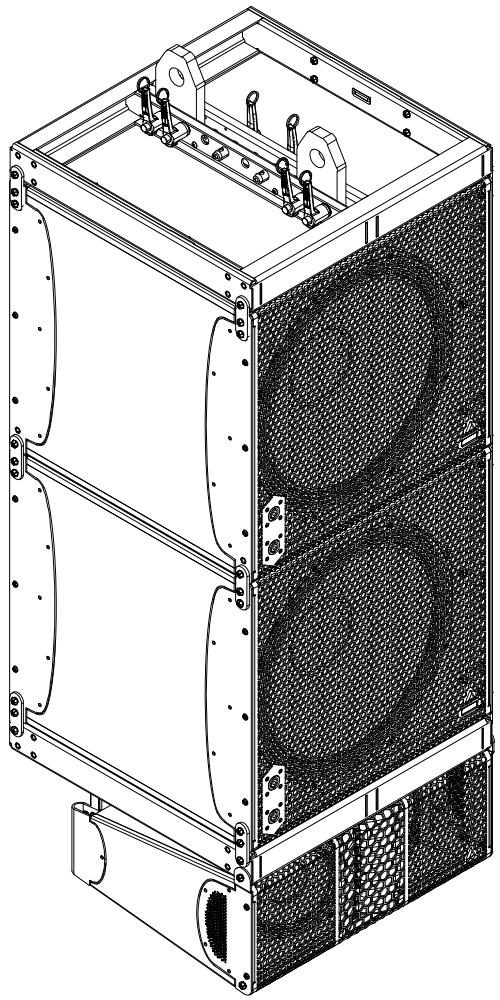
4. Line up the IS7 enclosure front tab so that it will match to the bottom front hole of the Rigging Frame.



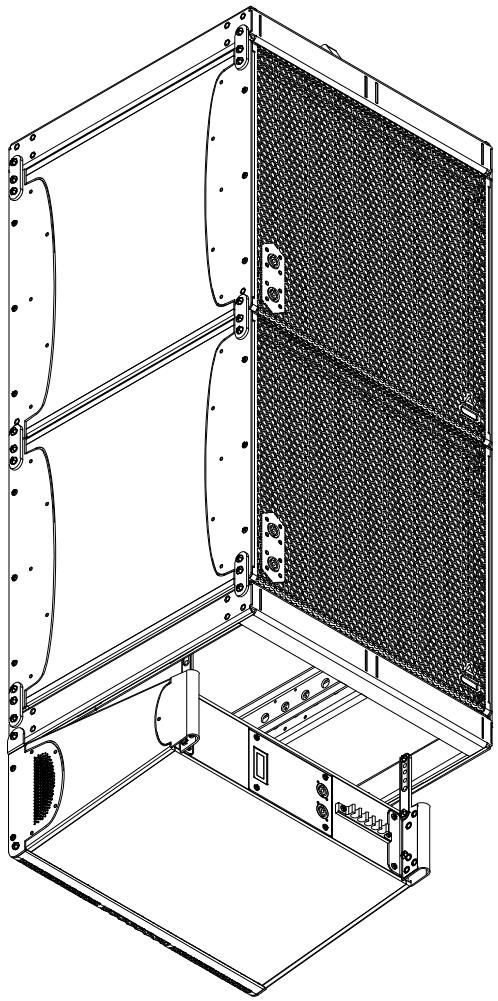
4.0 Rigging Procedures

4.8 Suspending IS7s below IS118s

5. Affix the IS7 enclosure through the front tab to the bottom front hole of the frame using the T25 Torx screws provided. A torque setting of 6.5 Nm is to be used.



6. To attach an IS7 rear to the Rigging Frame, first remove the screws from the rear inner holes of the Rigging Frame. Swing the rear rigging links of the IS7 up and affix them to the top hole on the frame through the "E" hole on the IS7 rigging link.



7. For additional IS7s, follow Suspending IS7 steps 5 through 7 until the desired amount of enclosures are affixed in the array.

4.0 Rigging Procedures

4.9 Suspending IS119

1. Affix the rigging links on the subwoofer so that the ends with two screw holes are affixed to each corner of the subwoofer with the T45 screws supplied. (***fig. 6***)

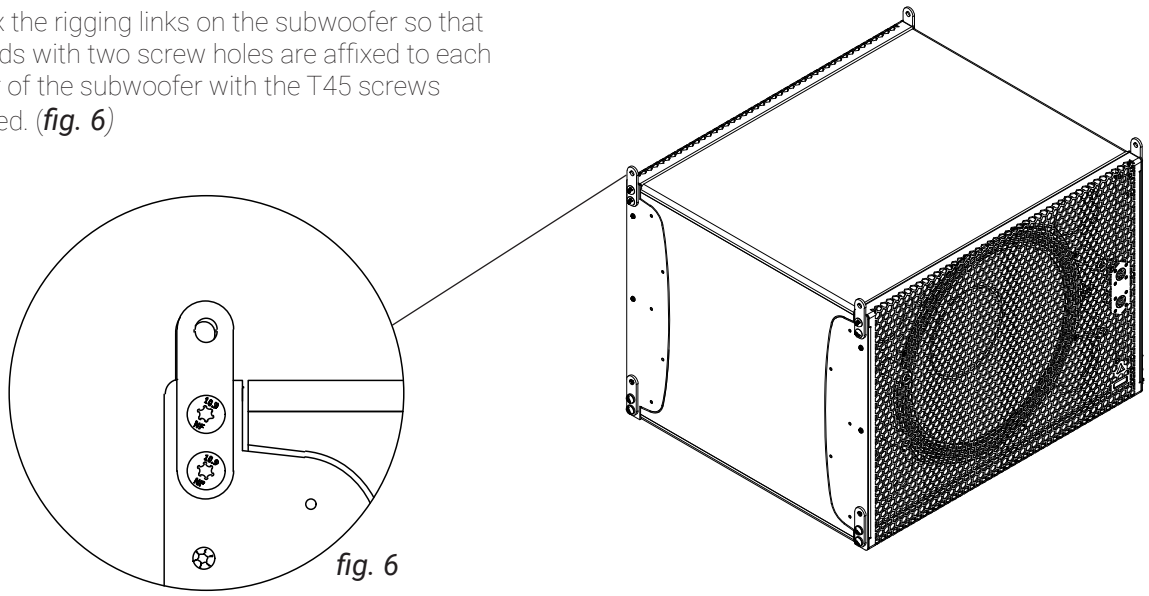
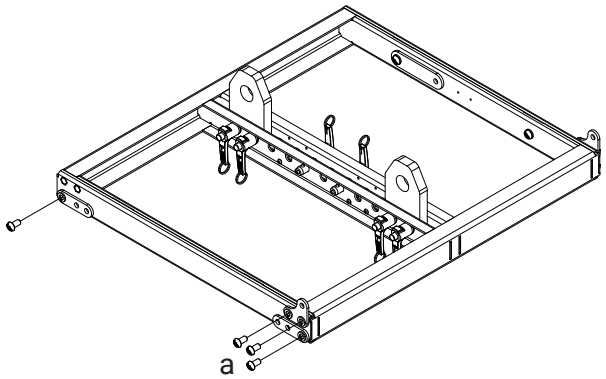


fig. 6

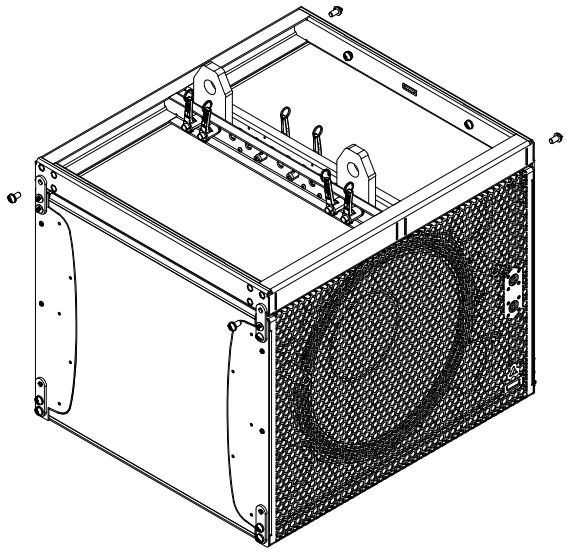
2. Remove all links from the Rigging Frame by removing the T45 Torx screws (**a**) affixing them in place. Place the screws in a secure place for future use.



4.0 Rigging Procedures

4.9 Suspending IS119

3. Affix the rigging links on all four corners of the subwoofer to the support frame with the screws removed in the last step. Lift the Rigging Frame with the subwoofer attached.

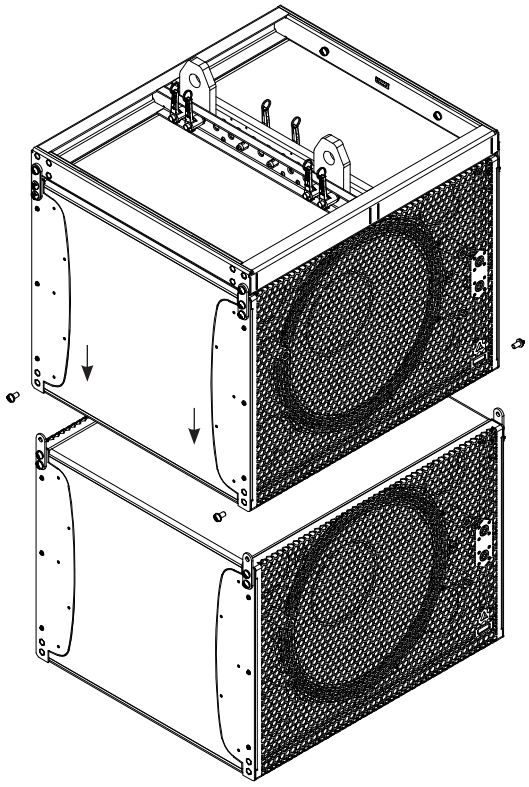


4. Repeat step 1 with the next subwoofer.

5. Place the second subwoofer underneath the flown subwoofer and support frame. Remove the screws on the bottom four corners of the flown subwoofer and set them aside. Make sure the subwoofer is placed in the correct direction according to the intended application *(if using cardioid presets, verify that the subwoofers are oriented properly).*

6. Lower the flown subwoofer onto the second subwoofer and affix them together using the screws set aside in the previous step.

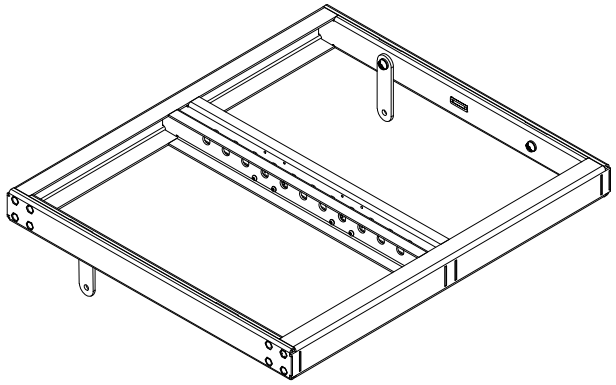
7. Repeat steps 4 through 6 for any further subwoofers in the array.

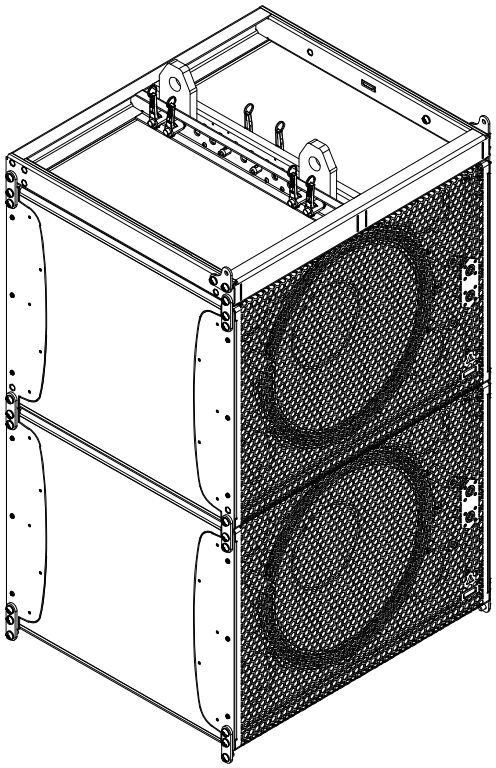


4.0 Rigging Procedures

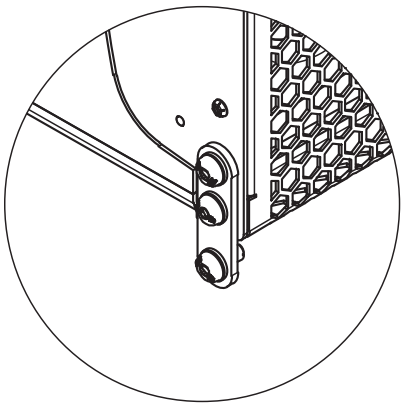
4.10 Suspending IS10s below IS119s

1. After completing 4.9 Suspending IS119 to the desired number of IS119s, prepare a second IS10/IS119 Rigging Frame by removing all Quick Release L-Handles, 2 Lifting Plates, the Ground Support Links, and the Rigging Link on each of the.4 corners. Do not remove the 2 Rear Rigging Links.





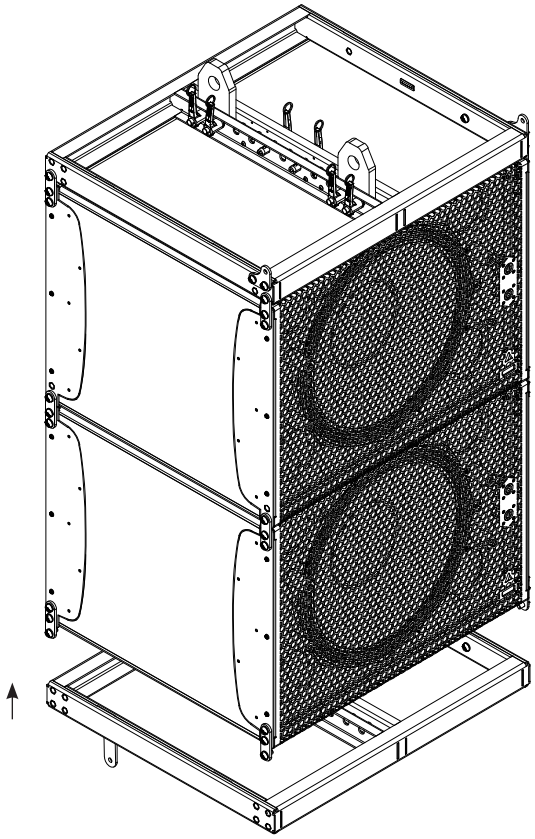
2. Prepare the bottom IS119 by affixing the Rigging Links so that the 2 screw holes are affixed to each corner of the subwoofer with T45 screws.



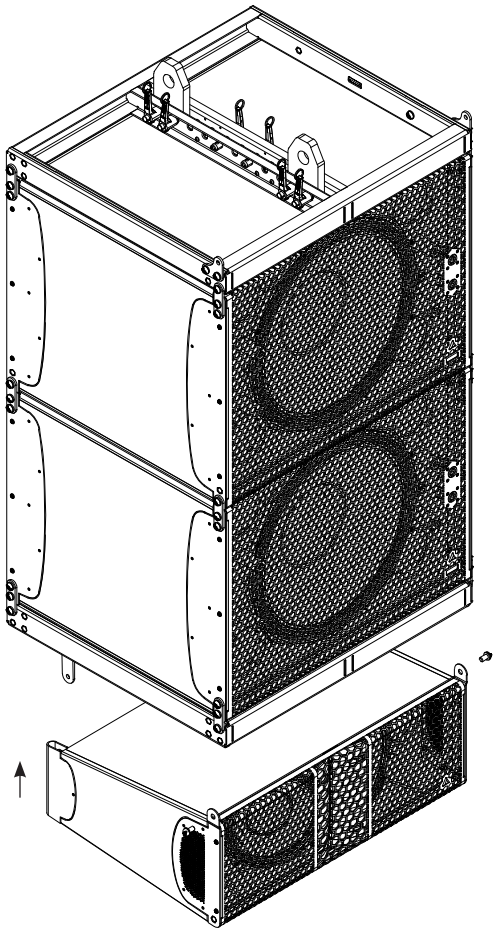
4.0 Rigging Procedures

4.10 Suspending IS10s below IS119s

3. Affix the Rigging Frame to the Rigging Links.



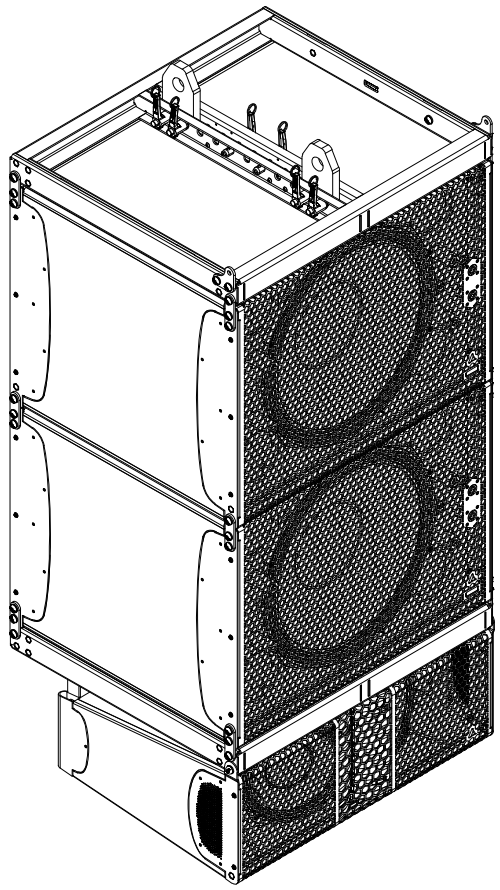
4. Line up the IS10 enclosure front tab so that it will match to the bottom front hole of the Rigging Frame.



4.0 Rigging Procedures

4.10 Suspending IS10s below IS119s

5. Affix the IS10 enclosure through the front tab to the bottom front hole of the Rigging Frame using the T45 Torx screws provided. A torque setting of 6.5 Nm is to be used.



6. To attach an IS10 rear to the Rigging Frame, first remove the screws from the rear inner holes of the Rigging Frame. Swing the rear rigging links of the IS10 up and affix them to the top hole on the frame through the "E" hole on the IS10 rigging link.