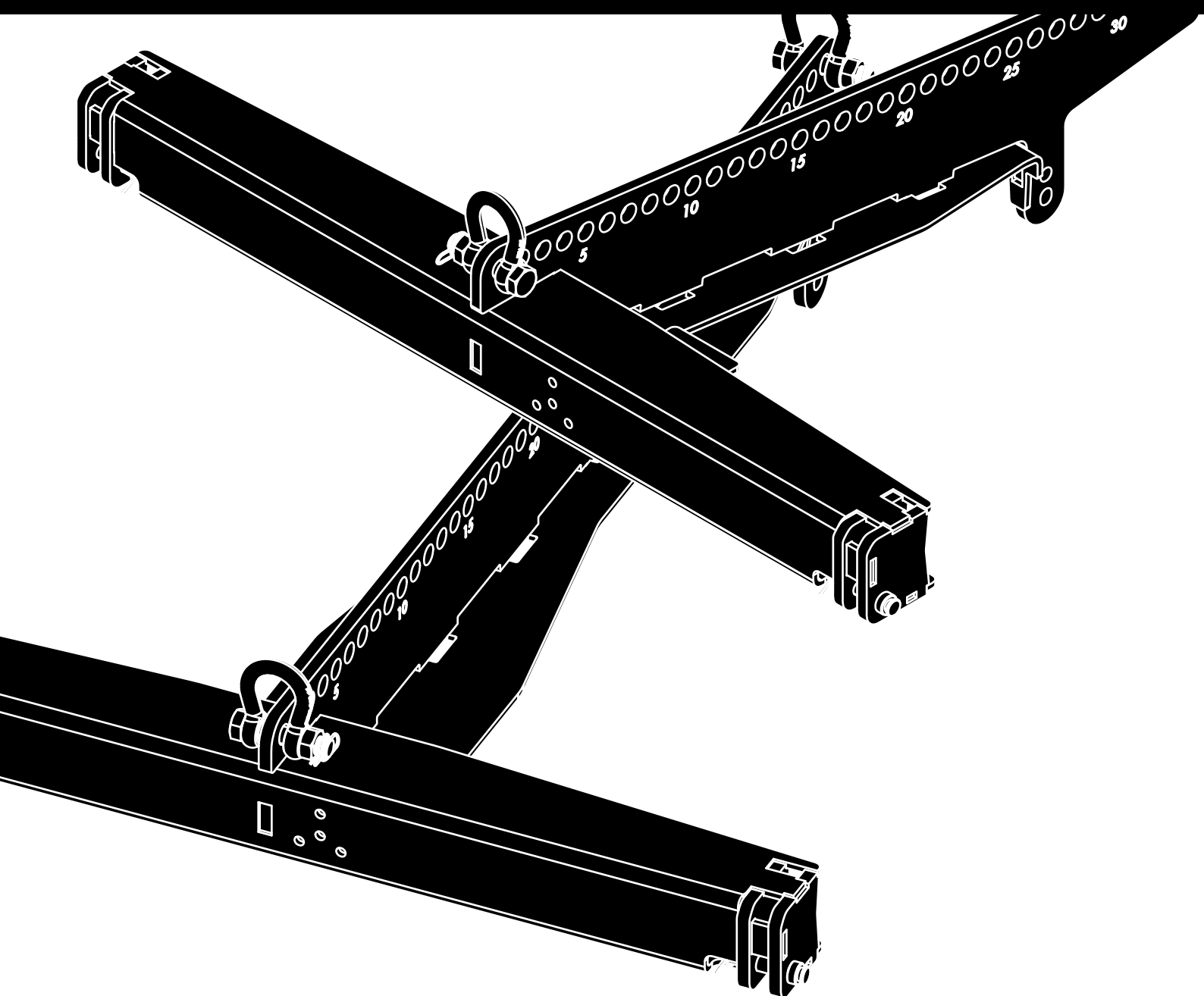


SL

XSLi Rigging manual 1.2 en



General information

XSLi Rigging manual

Version: 1.2 en, 09/2023, D2756.EN .01

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Keep this document with the product or in a safe place so that it is available for future reference.

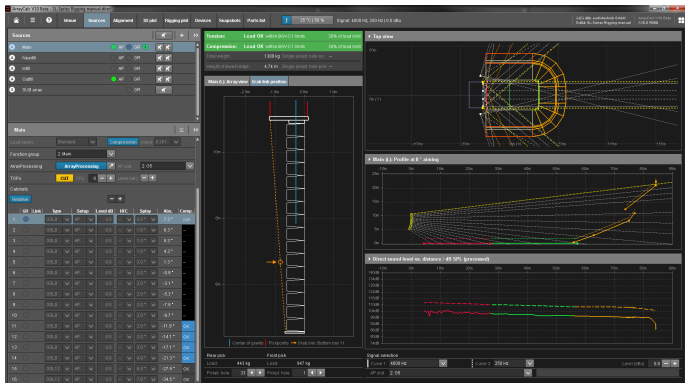
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d&b ArrayCalc

1.1 Intended use

The d&b XSLi rigging components must only be used in conjunction with d&b XSLi loudspeakers, as described in this manual.

1.2 d&b ArrayCalc

For both safety and acoustic reasons, d&b line arrays must be designed using the d&b ArrayCalc simulation software. The software is available as a native stand-alone application for both Microsoft Windows and Mac OS X operating systems and can be downloaded at www.dbaudio.com.

Detailed information on how to use and operate ArrayCalc is provided by the Help system of the software. To access the Help system, press F1 or select the Help button () from the ArrayCalc toolbar. This will launch the HelpViewer which provides an overview of the program as well as a search function and direct access to the related topics.

In addition, ArrayCalc will provide you with typical array configurations within the permitted load limits and will help you get familiar with the mechanical load conditions and limitations.

d&b TI 385

Further information on line array design can be found in "TI 385 d&b Line array design, ArrayCalc". The TI is supplied with the software or can be downloaded from the d&b website at www.dbaudio.com.

d&b Seminar

We also recommend you to attend the regularly hosted d&b Line array training seminars. Further information regarding the d&b seminars and a seminar schedule can also be found on the d&b website at www.dbaudio.com.

d&b Video tutorials

In addition, d&b provides related video tutorials which can also be found on the d&b website at www.dbaudio.com or www.sl-series.com.

1.3 General safety

- Installation and setup should only be carried out by qualified and authorized personnel observing the valid national Rules for the Prevention of Accidents (RPA).
- It is the responsibility of the person installing the assembly to ensure that the suspension/fixing points are suitable for the intended use.
- Always carry out a visual and functional inspection of the items before use. In case there is any doubt as to the proper functioning and safety of the items, these must be withdrawn from use immediately.

Please also refer to ⇒ Chapter 6 "Care and maintenance" on page 24.

System components and weights

Loudspeaker

Z0776/Z0777 XSLi8/XSLi12 cabinets.....	39 kg (86 lb)
Z0778 XSLi-SUB cabinet	66 kg (146 lb)

Rigging components

Z5787.000 XSLi-TOP Mounting frame.....	10 kg (22 lb)
Z5788 XSLi-SUB Mounting frame	11 kg (24 lb)
Z5780 XSLi-SUB Adapter frame.....	14 kg (31 lb)

1.4 System components and weights/Load capacity

Load capacity

NOTICE!

Z5787.000 XSLi Top mounting frame

The Z5787.000 XSLi Top mounting frame is designed to support a total system weight of 500 kg (1 100 lb) - SWL including all rigging components.

This allows the suspension of a maximum of 12 x XSLi-TOP cabinets.

Z5788 XSLi-SUB Mounting frame

The Z5788 XSLi-SUB Mounting frame is designed to support a total system weight of 500 kg (1 100 lb) - SWL including all rigging components.

This allows the suspension of a maximum of 7 x XSLi-SUB cabinets.

Z5780 XSLi-SUB Adapter frame

Together with the Z5788 XSLi-SUB Mounting frame the Adapter frame allows the suspension of mixed array configurations consisting of XSLi-TOP cabinets underneath XSLi-SUB cabinets. However, observe the maximum total system weight of 500 kg (1 100 lb) - SWL including all rigging components, when setting up a mixed array configuration.

1.4.1 Wind loads



WARNING!

Potential risk of personal injury and material damage!

When setting up fixed outdoor installations, unpredictable wind loads must be taken into account.

- For this reason, arrays must not be suspended using hoisting chains or steel wire ropes.
- The arrays must be firmly attached to the onsite roof construction.



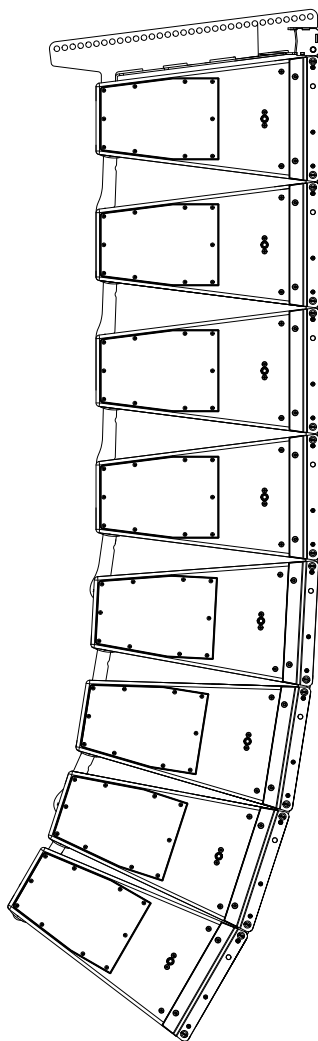
1.5 Operational safety

- The assembly should always be carried out by two persons.
- During assembly, pay attention to the possible risk of crushing. Wear suitable protective clothing.
- Observe all instructions given on the respective instruction labels of the rigging components and loudspeaker cabinets.
- When chain hoists are in operation, ensure that there is nobody directly underneath or in the vicinity of the load.

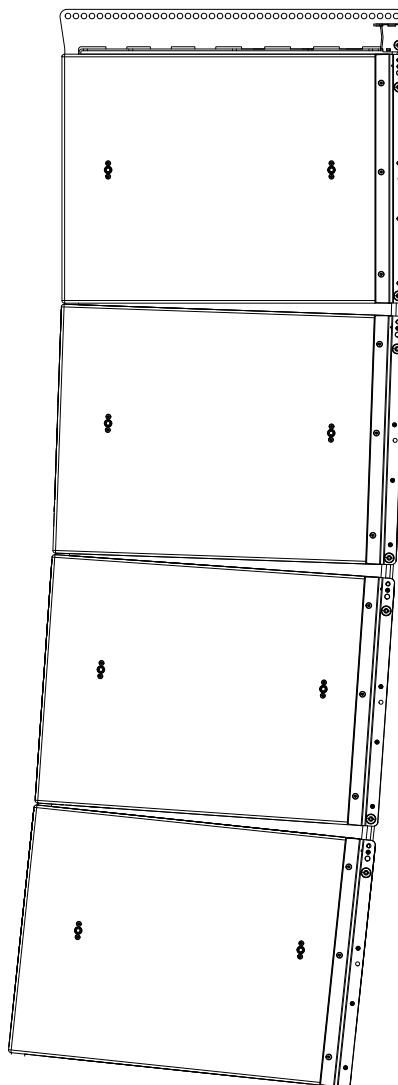
2.1 Mounting frames and adapter

The d&b XSLi cabinets are supplemented by two dedicated mounting frames (Z5787.000 XSLi Top Mounting frame and Z5788 XSLi-SUB Mounting frame) and the additional Z5780 XSLi-SUB Adapter frame.

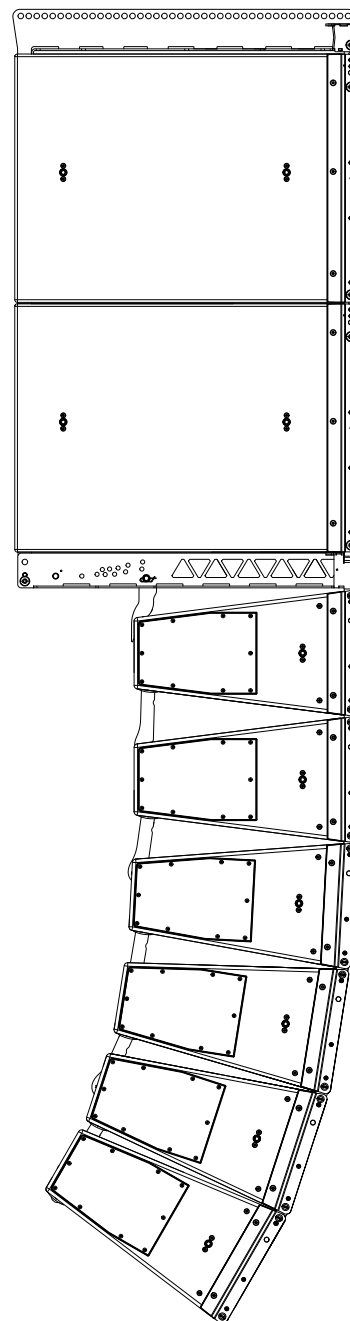
These components allow setting up the following array configurations:



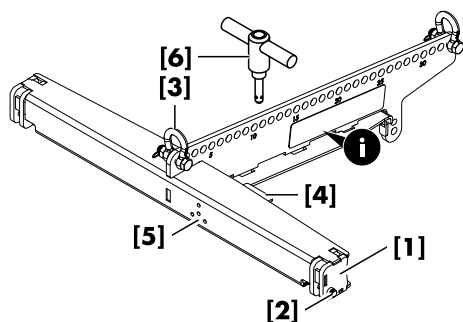
XSLi-TOP array, 8-deep with:
Z5787.000 XSLi Top mounting frame



XSLi-SUB column, 4-deep, 2.5° splay with:
Z5788 XSLi-SUB Mounting frame



Mixed array with:
Z5788 XSLi-SUB Mounting frame
Z5780 XSLi-SUB Adapter frame



2.1.1 Z5787.000 XSLi Top mounting frame

Intended use

The Z5787.000 XSLi Top mounting frame is designed to support a total system weight of 500 kg (1 100 lb) - SWL including all rigging components.

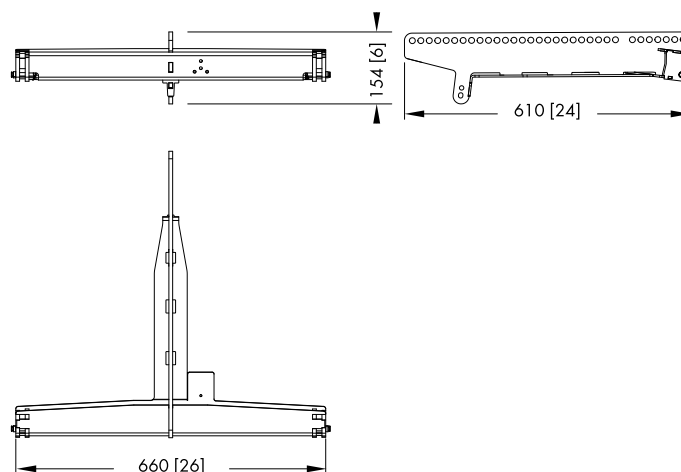
This allows the suspension of a maximum of 12 x XSLi-TOP cabinets.

Scope of supply

Please verify the shipment for completeness and proper condition of the items.

The Z5787.000 XSLi Top mounting frame is equipped and supplied with the following rigging components:

Pos.	Component	Description
[1]	Z5787.000	XSLi Top mounting frame.
[2]	Fixing bolt	Two fixing bolts (42.5 x 9 mm) with ring cotters.
[3]	Shackle	Two 1 t shackles are provided for hoisting purposes.
[4]	Mounting plate	The Mounting plate is used to attach the d&b Z5711 ArraySight sender unit.
[5]		Four dedicated holes are provided at the front of the frame. The center hole serves as the exit for the laser beam, while the three surrounding holes allow for the adjustment of the ArraySight sender unit, if necessary.
[6]	Lifting pin	Two lifting pins (T-handles) are provided to serve as a temporary lifting aid for the cabinets during setup.
i		Instruction label providing vital safety and rigging instructions.



Z5787.000 XSLi Top mounting frame dimensions in mm [inch]

Weight 10 kg (22 lb)

2.1.2 Z5788 XSLi-SUB Mounting frame

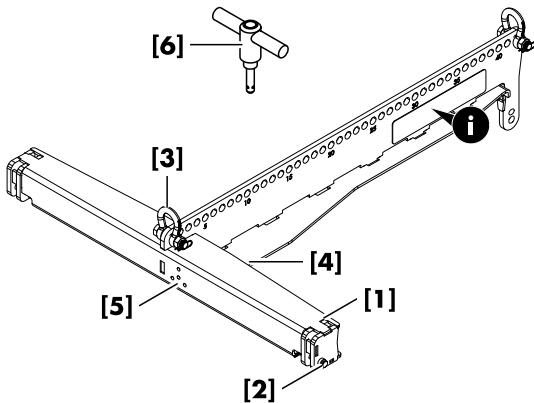
Intended use

The Z5788 XSLi-SUB Mounting frame is designed to support a total system weight of 500 kg (1 100 lb) - SWL including all rigging components.
This allows the suspension of a maximum of 7 x XSLi-SUB cabinets.

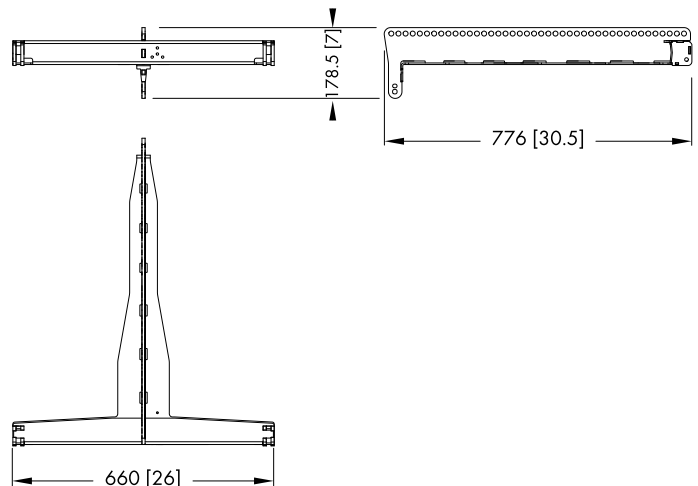
Scope of supply

Please verify the shipment for completeness and proper condition of the items.

The Z5788 XSLi-SUB Mounting frame is equipped and supplied with the following rigging components:

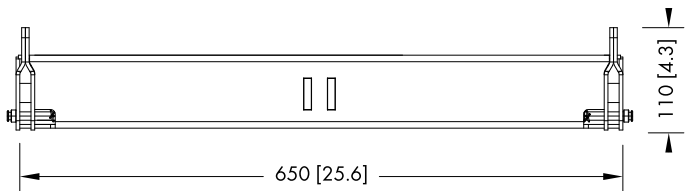
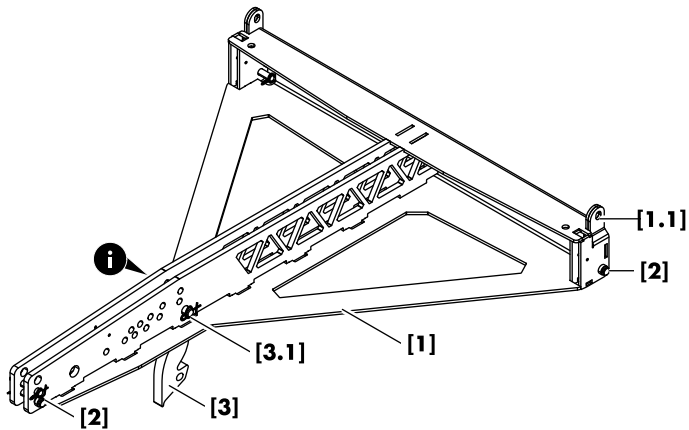


Pos.	Component	Description
[1]	Z5788	XSLi-SUB Mounting frame.
[2]	Fixing bolt	Two fixing bolts (42.5 x 9 mm) with ring cotter.
[3]	Shackle	Two 1 t shackles are provided for hoisting purposes.
[4]	Mounting plate	The Mounting plate is used to attach the d&b Z5711 ArraySight sender unit.
[5]		Four dedicated holes are provided at the front of the frame. The center hole serves as the exit for the laser beam, while the three surrounding holes allow for the adjustment of the ArraySight sender unit, if necessary.
[6]	Lifting pin	Two lifting pins (T-handles) are provided to serve as a temporary lifting aid for the cabinets during setup.
i		Instruction label providing vital safety and rigging instructions.

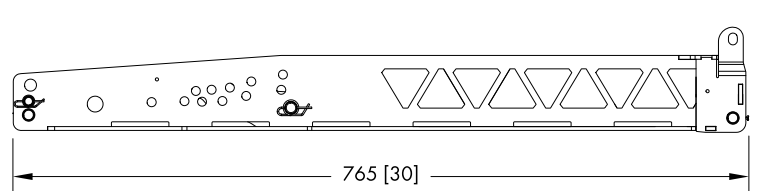


Z5788 XSLi-SUB Mounting frame dimensions in mm [inch]

Weight 11 kg (24 lb)



Z5780 XSLi-SUB Adapter frame dimensions in mm [inch]



Weight 14 kg (31 lb)

2.1.3 Z5780 XSLi-SUB Adapter frame

Intended use

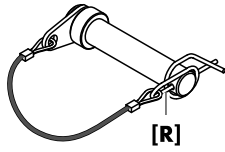
The Z5780 XSLi-SUB Adapter frame is intended to suspend mixed array setups consisting of XSLi TOP cabinets underneath XSLi-SUB cabinets.

Scope of supply

Please verify the shipment for completeness and proper condition of the items.

The Z5780 XSLi-SUB Adapter frame is equipped and supplied with the following rigging components:

Pos.	Component	Description
[1]	Z5780	XSLi-SUB Adapter frame.
[1.1]	Front links	The front tie bar of the frame is equipped with fixed Front links.
[2]	Fixing bolts	Four fixing bolts (42.5 x 9 mm) with ring cotters.
[3]	Splay link frame	Splay link including fixing bolt [3.1]. In combination with the Front links of the XSLi-TOP cabinets, the Splay link of the frame is used to attach the first cabinet underneath XSLi-SUB cabinets.
i		Instruction label providing vital safety and rigging instructions.



2.2 Fixing bolts



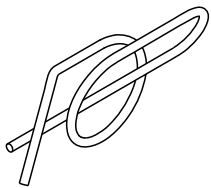
WARNING!

Potential risk of personal injury and/or damage to material!

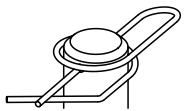
Ensure all Fixing bolts are fully inserted and secured with their ring cotters **[R]** before lifting any load.

The function of the ring cotters is described in ⇒ Chapter 2.3 "Ring cotters" on page 10.

Dedicated fixing bolts (42.5 x 9 mm) are used in connection with the mounting frames and the Splay/Rear links of the cabinets.



Ring cotter



Ring cotter locked

2.3 Ring cotters

In connection with the XSLi rigging system, ring cotters are used for the following items to prevent the respective item from slackening and/or loosening:

- Fixing bolts of the shackles attached to the XSLi mounting frames.
- Fixing bolts of the cabinets' splay links.

Function of the ring cotter

By default, the ring cotters are "locked" to prevent them from loosening.

For modification reasons such as altering a position or exchanging a rigging component, it may be necessary to temporarily remove the ring cotter and reattach it afterwards.

Note: Please also refer to ⇒ Chapter 6 "Care and maintenance" on page 24.

For this purpose proceed as follows:

1. **Unlock**

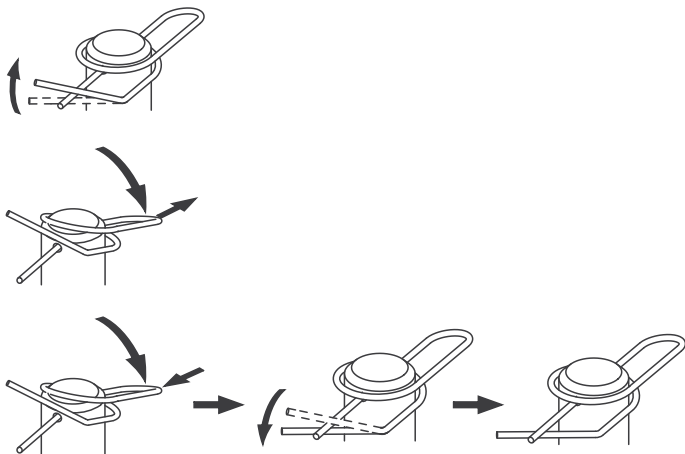
Unlock the ring cotter by pushing up the front wire loop over the straight wire shaft.

2. **Release and remove**

Push down the rear wire loop until the ring cotter snaps over the edge of the bolt and remove the ring cotter.

3. **Refit and lock**

Refit the ring cotter by pushing the straight wire shaft through the hole and pressing the front wire loop underneath the straight wire shaft.



2.4 Rigging mechanism of the cabinets

The cabinets are mechanically connected to the Mounting frames/ Mounting adapter and subsequent loudspeakers using the Front links attached to both sides of the front rigging strands of the cabinets and the central Splay/Rear link on the rear rigging strand of the cabinet.

All necessary rigging components are mounted to the cabinets and slide or fold out when needed.

In principle, the Front link mechanism applies to both the TOP and SUB cabinets. The Front links are spring loaded and therefore extend automatically as soon as the respective Locking pins are released and pulled out.

2.4.1 Front link mechanism

Fixing bolts

The Front links are fixed using dedicated snake eye fixing bolts.

NOTICE!

Potential risk of damage to the rigging components!

The front rigging strands of the cabinets are made from high-grade aluminum. However, to avoid any damage to the threads of the fixing bolt slots ... :

- Only **hand-tighten** the fixing bolt so that the fixing bolt only just begins to tighten using an appropriate flat-head screwdriver or a suitable snake eye spanner.
- **Do not overtighten** the fixing bolt.

TOP | SUB cabinets

On both cabinets, the Front links are spring loaded.

- ⇒ Release the respective fixing bolt.
 - ↳ The Front link extends automatically.

The Front link mechanism of the SUB cabinets provides four different settings:

1. SUB to Frame (⇒ Fig. 1).
2. SUB to SUB with 0° splay between the cabinets (⇒ Fig. 2).
3. SUB to SUB with 2.5° splay (free) between the cabinets (⇒ Fig. 3).
4. SUB to SUB with 2.5° splay (blocked) between the cabinets (⇒ Fig. 4).

This setting is used to prevent the cabinets from folding up.

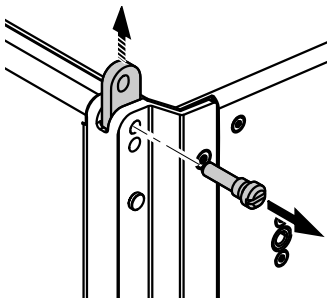
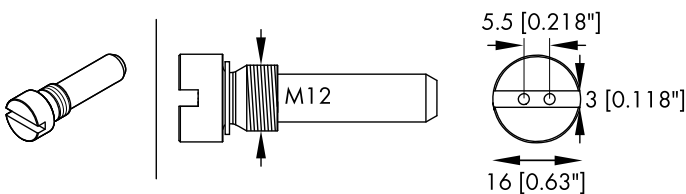


Fig. 1: SUB to Frame

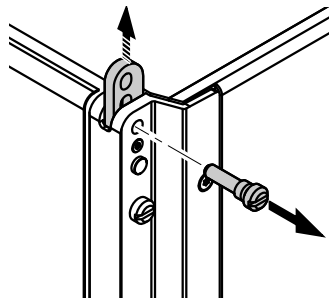


Fig. 2: SUB to SUB, 0° splay

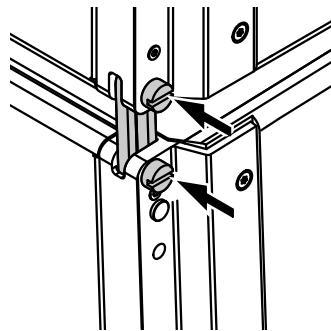
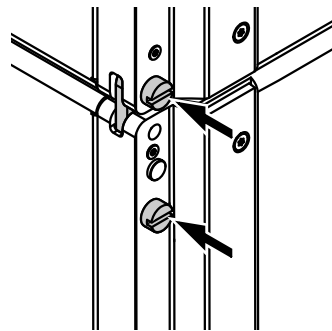
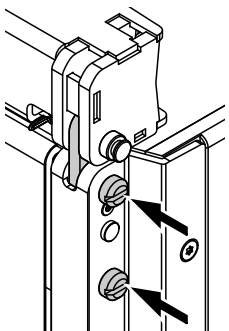


Fig. 3: SUB to SUB, 2.5° splay, free

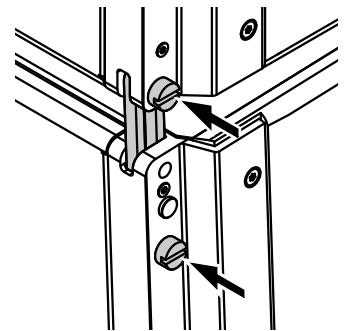
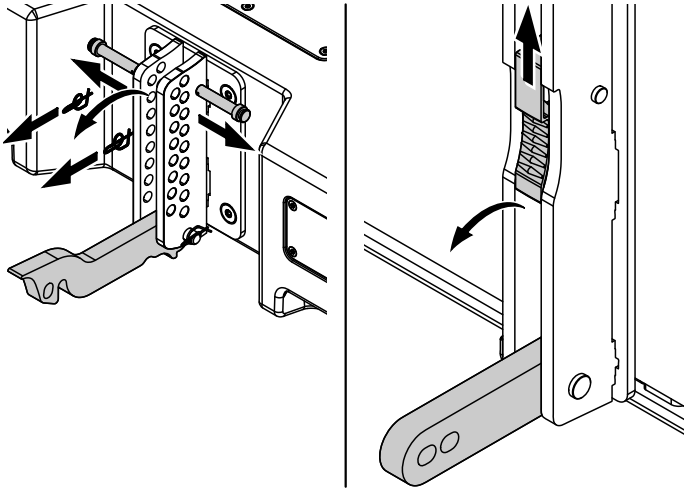
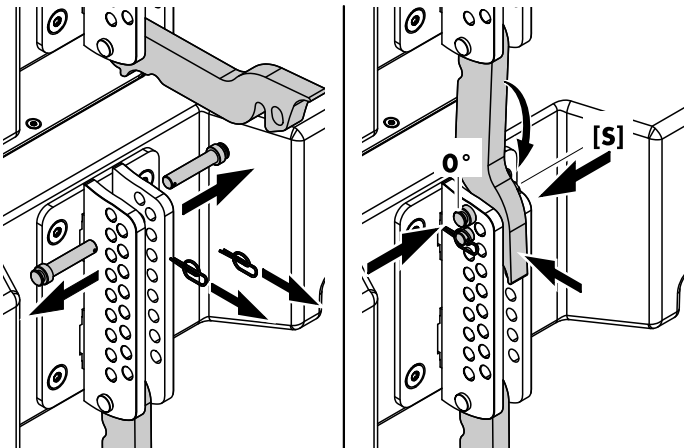


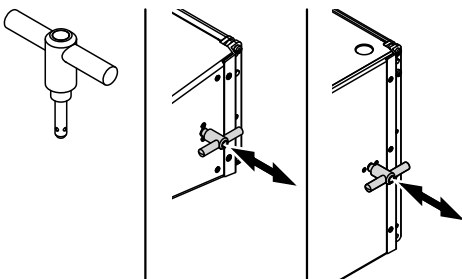
Fig. 4: SUB to SUB, 2.5° splay, blocked



Splay/Rear link mechanism TOP | SUB cabinets



Set splay angle (e.g. 0°)



2.4.2 Splay/Rear link mechanism

TOP cabinet

1. Unlock and remove the ring cotters of the fixing bolts.
2. Remove the fixing bolts and fold out the Splay link.

SUB cabinet

The Rear link of the cabinet is kept in its park position by a spring loaded fixing device.

- ⇒ Slide the fixing device upwards to release the link.

2.4.3 Setting splay angles for XSLi-TOP cabinets

The splay angles are set on the central rear rigging strands of the cabinets. The angles between adjacent cabinets can be set in the range from 0° to 14° in 1° increments.

The Splay link of the cabinets is designed as a hook.

The hook defines the splay angle while the outer hole is used to insert the second fixing bolt (Safety bolt **[S]**), as shown in the graphic opposite.

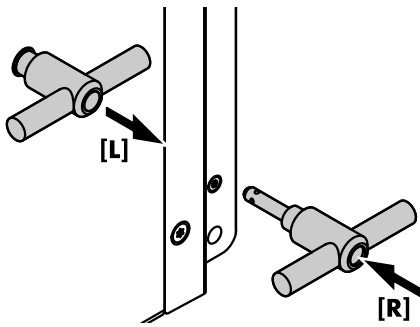
1. First release the Splay links of the cabinets as described in the previous section.
2. On the bottom cabinet, first insert one fixing bolt into the appropriate hole for the desired splay angle (e.g. 0°) and secure the bolt with the ring cotter.
3. Fold the Splay link of the upper cabinet into the rear rigging strand of the bottom cabinet.
4. Slightly lift the bottom cabinet until the hook of the upper cabinet has engaged.
5. Lower the bottom cabinet and reinsert the second fixing bolt (Safety bolt **[S]**) and secure the bolt with the ring cotter.

2.5 Lifting aid (T-handle)

XSLi cabinets incorporate dedicated slots to accept lifting pins (T-handles), which are supplied with the respective Mounting frame.

During setup, these pins serve as a temporary lifting aid and can be inserted and locked when needed.

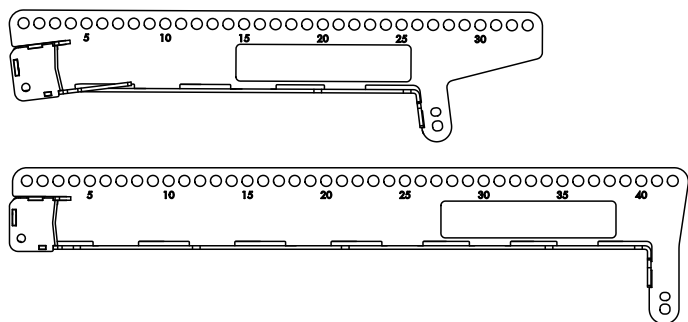
Once the cabinet is mounted, simply remove these pins so that they can be used for the assembly of the next cabinet.



T-handle assembly

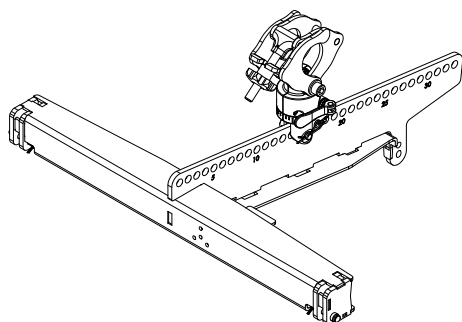
To attach a T-handle, proceed as follows:

1. Press the button to **Release** the locking mechanism (← **[R]**).
2. Insert the handle into the respective socket until it is fixed in place.
3. Release the button to **Lock** the handle (→ **[L]**).
4. Recheck the handle is securely locked by briefly pulling the Locking pin towards you.
5. To release and remove the handle, proceed in reverse order.



Mounting frame center bar hole grid

- Top mounting frame: 33 holes
- SUB Mounting frame: 42 holes



The center bars of the mounting frames are equipped with a hole grid allowing either single or dual pickpoint suspension using the enclosed 1 t shackles.

With single pickpoint suspension, the position of the shackle defines the vertical aiming of the entire array. The corresponding hole position is calculated using ArrayCalc.

3.1 Z5147 Rota clamp option

NOTICE!

Load safety information

A maximum of **12** x TOP cabinets (total system weight of 500 kg/ 1100 lb - SWL) can be suspended with any splay angle combination according to the ArrayCalc calculation.

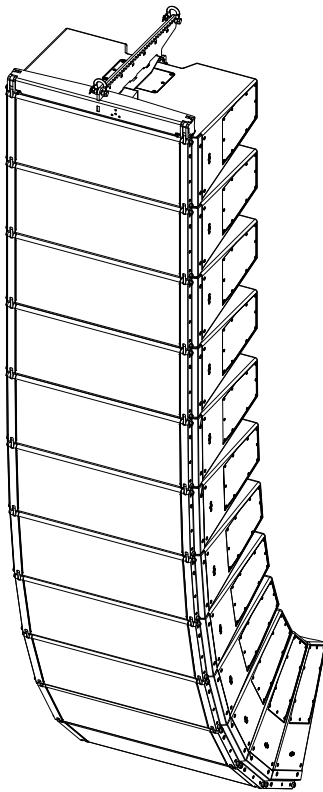
Alternatively, the array can be suspended and horizontally aligned from a single pickpoint using the d&b Z5147 Rota clamp. The clamp allows the load to be attached to overhead bars or truss with a tube diameter of up to 50 mm (2").

Attachment

Choose the appropriate hole position on the center bar according to the ArrayCalc calculation and attach the clamp correspondingly.

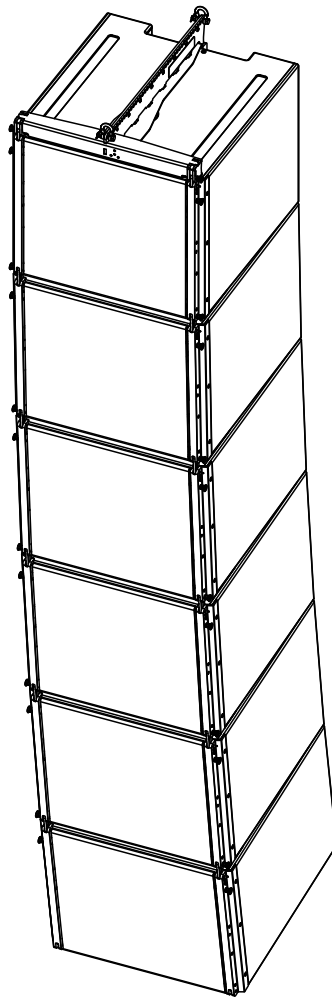
Note: Please observe the relevant mounting instructions which are enclosed with the clamp.

Overview



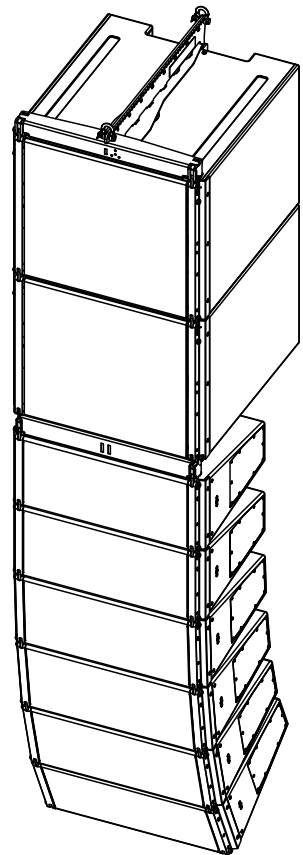
XSLi-TOP array, 12-deep with:
Z5787.000 XSLi Top Mounting frame

Refer to:
⇒ Chapter 4.2 "XSLi-TOP array"
on page 16



XSLi-SUB column, 6-deep, 2.5° splay with:
Z5788 XSLi-SUB Mounting frame

Refer to:
⇒ Chapter 4.3 "XSLi-SUB Column"
on page 19



Mixed array configuration with:
Z5788 XSLi-SUB Mounting frame
Z5780 XSLi-SUB Adapter frame

Refer to:
⇒ Chapter 4.4 "Mixed array
configuration" on page 21

4.1 Setup preparation

Check the acoustical and mechanical setup using ArrayCalc and prepare enough printouts for each array. Alternatively, the ArrayCalc Viewer App can be used for this purpose.

The plan enables the riggers to set up the suspension points, the securing points and the chain hoists.

When on site first:

- Always carry out the assembly with a second person.
- Clear the working areas and ensure there is enough space to set up and lift the array.
- Check that the hoists are exactly in the specified position.
- Ensure the chains are not twisted.

Inspections before setup

Before setting up the array, carry out a visual inspection of all system components for faults. This also includes the loudspeakers and in particular the rigging parts of the cabinets (Front and Splay/Rear links).

Damaged components must be withdrawn from use immediately.

Please follow the instructions given in ⇒ Chapter 6 "Care and maintenance" on page 24.

4.2 XSLi-TOP array

4.2.1 Remarks and limitations

NOTICE!

In combination with the Z5787.000 XSLi Top mounting frame, a maximum 12 x XSLi-TOP cabinets can be flown.

4.2.2 Order of assembly

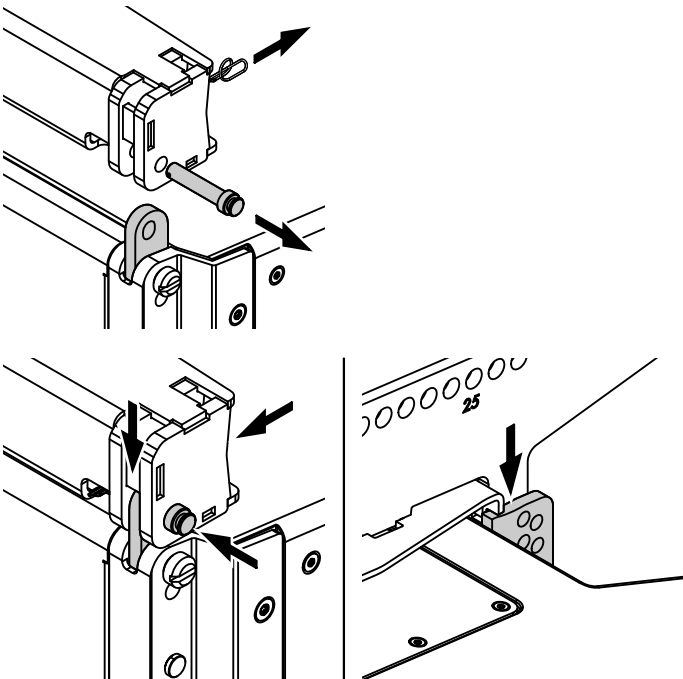
1. Prepare the first cabinet

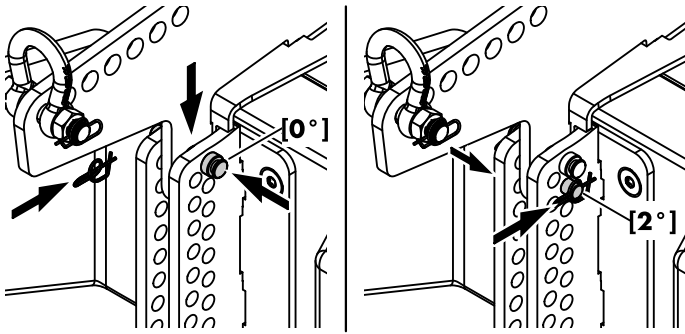
⇒ Prepare the Front and Splay links of the first cabinet as described in ⇒ Chapter 2.4 "Rigging mechanism of the cabinets" on page 11.

2. Attach the Mounting frame to the first cabinet

To attach the frame to the first cabinet, proceed as follows:

1. On the front tie bar, release and remove the ring cotters and the fixing bolts on both sides.
 - ↳ The ring cotters can best be accessed from the rear of the tie bar.
2. Attach the frame onto the cabinet until the Front links of the cabinet fit into the slots at the front of the frame and the Rear link of the frame fits into the rear rigging strand of the cabinet.
3. Insert the fixing bolts and secure the bolts with their ring cotters on both sides.





4. At the rear, insert the first fixing bolt into the **[0°]** hole and secure the bolt with its ring cotter.
5. Insert the second fixing bolt into the **[2°]** hole and secure the bolt with its ring cotter.

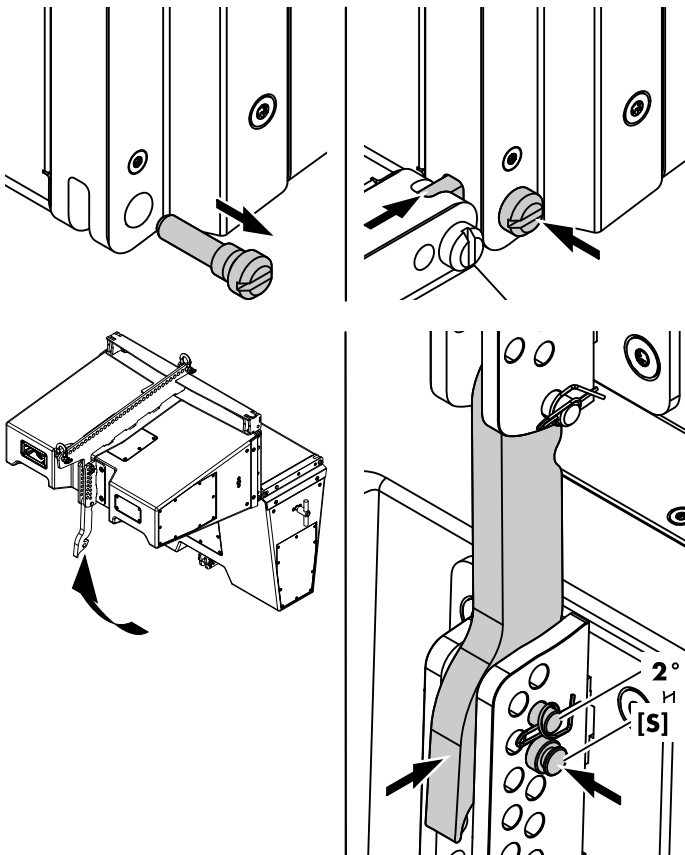
3. Suspend the Mounting frame

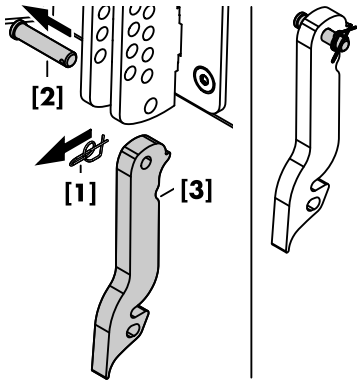
1. Suspend the Mounting frame according to your onsite requirements.
2. Lift the assembly to a suitable working height.

4. Add further TOP cabinets

1. Prepare the Front and Splay links of the next cabinet as described in ⇒ Chapter 2.4 "Rigging mechanism of the cabinets" on page 11.
2. Preset the desired splay angle as described in ⇒ Chapter 2.4.3 "Setting splay angles for XSLi-TOP cabinets" on page 12.
3. Attach the T-handles.
4. Release and remove the bottom fixing bolts at the front rigging strands of the upper cabinet.
5. With the front grill facing upwards, attach the prepared next cabinet to the corresponding slots at the front of the upper cabinet.
6. Insert and handtighten the fixing bolts of the upper cabinet's front rigging strands on both sides.
7. Raise the bottom cabinet until the Splay link of the upper cabinet has engaged into the preset fixing bolt (e.g. **[2°]**) of the bottom cabinet.
8. Insert the second fixing bolt (Safety bolt **[S]**) and secure the bolt with its ring cotter.
9. Remove the T-handles.

To add further cabinets, proceed in the same manner until the assembly is completed.





5. Splay link of the last TOP cabinet

To avoid either rattling during operation or damage to the Splay link of the last cabinet, we recommend you to remove the link and store it in a safe place. To remove the link, proceed as follows:

1. Release and remove the ring cotter **[1]** of the fixing bolt.
2. Remove the fixing bolt **[2]** and the link **[3]**.
3. To avoid losing any item, reattach the fixing bolt to the link and refit the ring cotter.

6. Check the assembly

Before hoisting the array to its operating position, recheck the actual status of the entire assembly according to the check list given in ⇒ Chapter 5 "Rechecking, hoisting and secondary safety" on page 23.

7. Rig the cabling

Connect the cables and link cables according to the number of amplifier channels and cabinets used.

- If the amplifiers are already wired and powered on, use their System check functions or Channel mute switches and a test signal to check the correct operation and routing of all channels and cabinets.
- Alternatively, check the wiring using the Array verification function in R1.

4.3 XSLi-SUB Column

4.3.1 Remarks and limitations

NOTICE!

In connection with the Z5788 XSLi-SUB Mounting frame, a maximum of 7 x XSLi-SUB cabinets can be flown.

4.3.2 Order of assembly

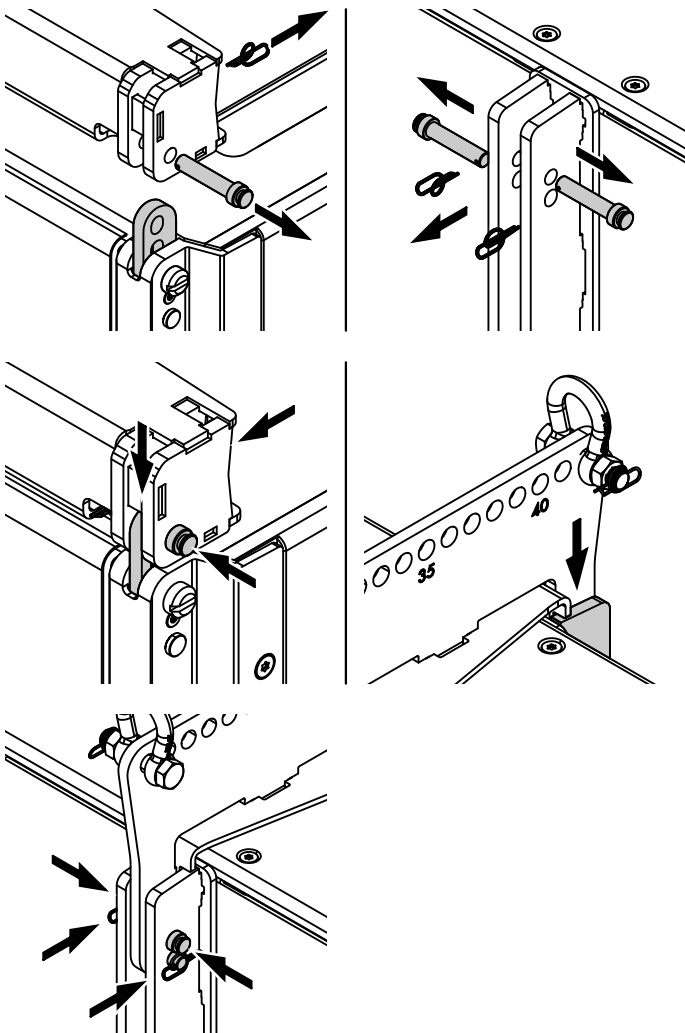
1. Prepare the first cabinet

⇒ Prepare the Front and Rear links of the first cabinet as described in ⇒ Chapter 2.4 "Rigging mechanism of the cabinets" on page 11.

2. Attach the Mounting frame to the first SUB cabinet

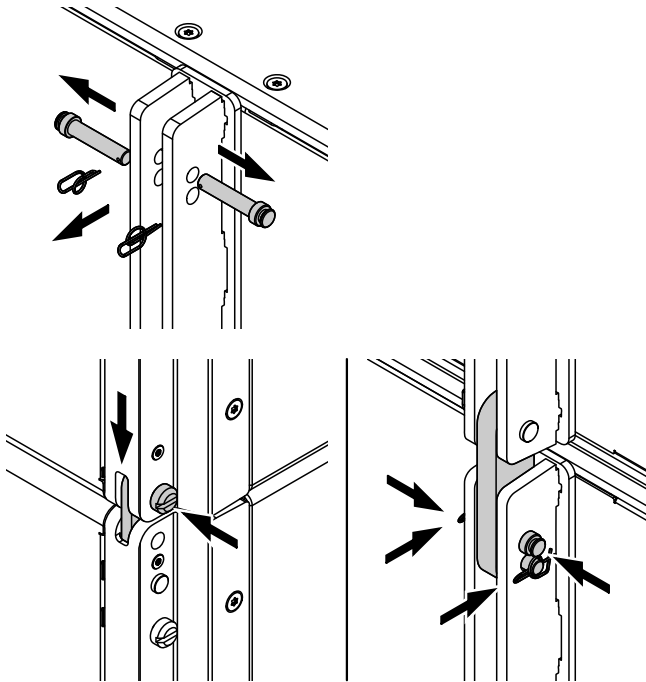
To attach the frame to the first cabinet, proceed as follows:

1. On the front tie bar, release and remove the ring cotters and the fixing bolts on both sides.
↳ The ring cotters can best be accessed from the rear of the tie bar.
2. On the rear rigging strand of the SUB cabinet, release and remove both ring cotters and fixing bolts.
3. Lower the frame onto the cabinet until the Front links of the cabinet fit into the slots at the front of the frame and the Rear link of the frame fits into the rear rigging strand of the cabinet.
4. On the front tie bar, reinsert the fixing bolts and secure the bolts with their ring cotters on both sides.
5. At the rear of the cabinet, reinsert the fixing bolts and secure the bolts with their ring cotters.



3. Suspend the Mounting frame

1. Suspend the Mounting frame according to your onsite requirements.
2. Lift the frame to a suitable working height.



4. Add further SUB cabinets

1. Prepare the Front and Rear links of the next cabinet as described in ⇒ Chapter 2.4 "Rigging mechanism of the cabinets" on page 11.
2. On the rear rigging strand of the SUB cabinet, release and remove both ring cotters and fixing bolts.
3. Attach the T-handles.
4. Lift the assembly to a suitable working height.
5. Position the next SUB cabinet below the assembly.
6. Lower the assembly onto the cabinet until the Front links of the next cabinet fit into the slots on the front rigging strands of the upper cabinet and the Rear link of the upper cabinet fits into the rear rigging strand of the bottom cabinet.
7. Insert and handtighten the fixing bolts of the cabinet's front rigging strands on both sides.
 - ↳ Please also refer to ⇒ Chapter 2.4 "Rigging mechanism of the cabinets" on page 11.
8. At the rear of the upper cabinet, reinsert both fixing bolts and secure them with their ring cotters.
9. On the bottom cabinet, check the Rear link is properly fitted into the rear rigging strand.
10. Insert and lock both Locking pins.
11. Remove the T-handles.

To add further cabinets, proceed in the same manner until the assembly is completed.

5. Rear link of the last SUB cabinet

The Rear link of the last cabinet can be kept in its park position.

6. Check the assembly

Before hoisting the array to its operating position, recheck the actual status of the entire assembly according to the check list given in ⇒ Chapter 5 "Rechecking, hoisting and secondary safety" on page 23.

7. Rig the cabling

Connect the cables and link cables according to the number of amplifier channels and cabinets used.

- If the amplifiers are already wired and powered on, use their System check functions or Channel mute switches and a test signal to check the correct operation and routing of all channels and cabinets.
- Alternatively, check the wiring using the Array verification function in R1.

Z5788

Z5780



4.4 Mixed array configuration

4.4.1 Remarks and limitations

NOTICE!

For a mixed setup, the Z5788 XSLi-SUB Mounting frame must always be used as a suspension device while the Z5780 XSLi-SUB Adapter frame is required in addition.

The Z5788 XSLi-SUB Mounting frame allows mixed array configurations with a maximum total system weight of 500 kg (1 100 lb) - SWL including all rigging components.

4.4.2 Order of assembly

Setting up a mixed array configuration is split into four assembly procedures:

1. Set up the SUB assembly.
2. Attach the Adapter frame.
3. Attach the first TOP cabinet to the Adapter frame.
4. Add further TOP cabinets.

1. Set up the SUB assembly

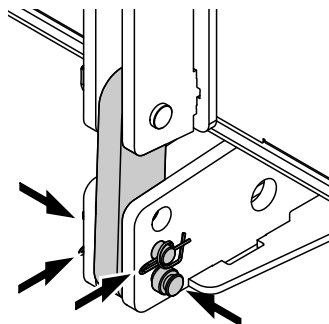
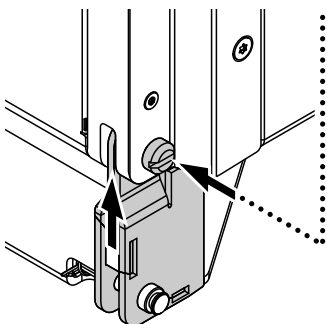
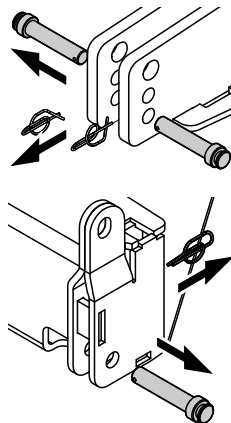
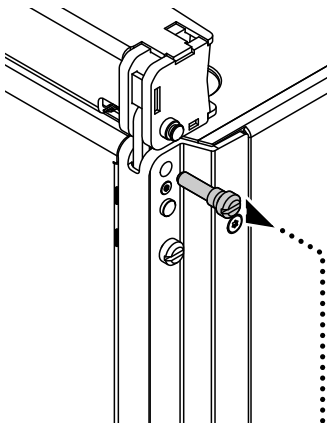
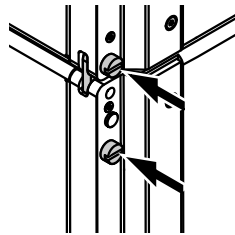
NOTICE!

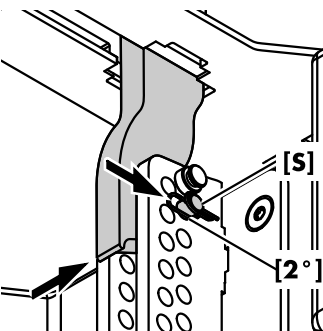
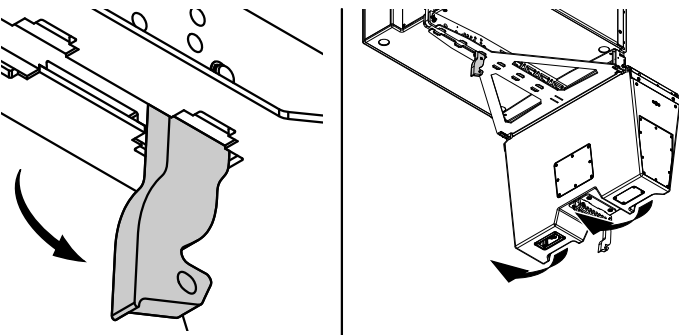
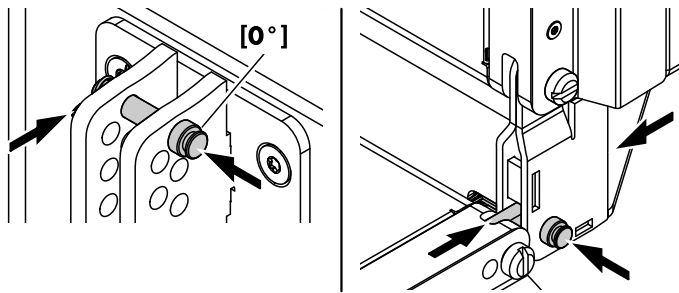
In connection with a mixed array configuration with SUB cabinets at the top of the array, subsequent SUB cabinets must always be connected with 0° splay.

Setting up the SUB assembly is performed in the same manner as described in ⇒ Chapter 4.3.2 "Order of assembly" on page 19.

2. Attach the Adapter frame

1. To attach the Adapter frame to the bottom of the last SUB cabinet, use the fixing bolt of the first SUB cabinet as shown in the graphic opposite.
2. On the front tie bar, also release and remove the ring cotters and the fixing bolts on both sides.
 - ↳ This will simplify the attachment of the first TOP cabinet in a later step. The ring cotters can best be accessed from the rear of the tie bar.
3. On the Rear link slot of the frame, release and remove both ring cotters and fixing bolts.
4. Attach the frame underneath the cabinet until the Front links of the adapter fit into the slots on the front rigging strands of the cabinet and insert the fixing bolts.
5. At the rear, check the Rear link of the cabinet is properly fitted into the rear rigging slot of the frame and reinsert both fixing bolts and secure the bolts with their ring cotters.





3. Attach the first TOP cabinet to the Adapter frame

To attach the first cabinet to the frame, proceed as follows:

1. Lift the assembly to a suitable working height.
2. Prepare the Front and Splay links of the first cabinet as described in ⇒ Chapter 2.4 "Rigging mechanism of the cabinets" on page 11.
3. Attach the T-handles.
4. At the rear of the cabinet, reinsert the first fixing bolt into the **[0°]** hole and secure the bolt with its ring cotter.
5. With the front grill facing upwards, attach the prepared cabinet to the corresponding slots at the front of the frame.
6. Reinsert the fixing bolts and secure the bolts with their ring cotters on both sides.
7. Release the Rear link of the frame from its park position.
8. Raise the bottom cabinet until the Rear link of the frame has engaged into the preset fixing bolt of the cabinet.

9. Insert the second fixing bolt (Safety bolt **[S]**) into the **[2°]** hole and secure the bolt with its ring cotter.

10. Remove the T-handles.

4. Add further TOP cabinets

To add further cabinets, proceed in the same manner as described in ⇒ "4. Add further TOP cabinets" on page 17, until the assembly is completed.

5. Check the assembly

Before hoisting the array to its operating position, recheck the actual status of the entire assembly according to the check list given in ⇒ Chapter 5 "Rechecking, hoisting and secondary safety" on page 23.

6. Rig the cabling

Connect the cables and link cables according to the number of amplifier channels and cabinets used.

- If the amplifiers are already wired and powered on, use their System check functions or Channel mute switches and a test signal to check the correct operation and routing of all channels and cabinets.
- Alternatively, check the wiring using the Array verification function in R1.

Safety and system checks

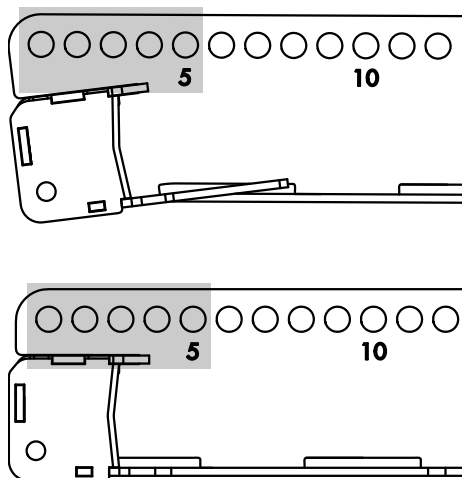
Before hoisting the array to its operating position, recheck the actual status of the assembly as follows:

Mechanical setup

- Check the attachment of the Mounting frame(s) and/or adapter frame to the cabinets:
 - Ensure all Fixing bolts are properly fitted and secured with their ring cotters.
- Check the attachment of all Front links on both sides of the cabinets and ensure all Fixing bolts are fully inserted and tightened.
- Check the splay angles and the attachment of the Splay/Rear links at the rear of the cabinets:
 - Ensure all Fixing bolts are properly fitted and secured with their ring cotters.

Wiring

- If the amplifiers are already wired and powered on, use their System check functions or channel mute switches and a test signal to check the correct operation and routing of all channels and cabinets.
- Alternatively, check the wiring using the Array verification function in R1.



Hoisting



WARNING!

Potential risk of personal injury and/or damage to material!

Always ensure that each of the hoists is able to carry the total weight of the array.

When hoisting the array, unpredictable dynamic forces as well as swinging of the array must be taken into account. This may lead to personal injury and/or damage to the rigging components and loudspeaker cabinets.

Ensure there is nobody directly underneath or in the vicinity of the load who is not involved in the setup.

When all the mechanical adjustments, safety checks and system checks have been made, the array can be hoisted up to its operating position and firmly attached to the onsite construction.

The chain hoist motors must raise the array slowly and evenly so that it does not swing or move from side to side during hoisting.

5.1 Secondary safety

Once the array is in its final operating position, the secondary safety device must be applied.



WARNING!

Potential risk of personal injury and/or damage to material!

- The secondary safety suspension must be independent of the primary suspension points and capable of carrying the total system weight.
- The additional safety device must be mounted in a way that, if the primary suspension fails, the array is caught by the safety device without any drop or swing.

The secondary safety device must be attached to the front of the frames using one of the first five holes.

6.1 Visual and functional inspections



WARNING!

Potential risk of personal injury and/or damage to material.

To eliminate the risk of accident due to malfunctioning of a component, regularly inspect all system components.

Cabinet enclosure

- Visual inspection of all fitting plates for obvious damage (e.g. cracks or corrosion).
- Visual inspection of the rear rigging strand for obvious damage (e.g. cracks, deformation or corrosion) including all drilled holes of the component.
- Inspection of all fitting plates including front grills to ensure they are securely attached.

Front and Splay (Rear) links

Visual inspection regarding deformation and damage (e.g. cracks and corrosion) including all drilled holes of the component.

Fixing bolts

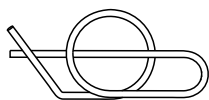
Visual inspection for deformation, cracks, and corrosion of the component.

Mounting frames and adapter frame

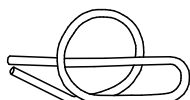
Visual inspection regarding deformation and damage (e.g. cracks and corrosion) including all drilled holes of the component.

Ring cutters

- Visual inspection for obvious damage and deformation.
- Functional test of the locking mechanism as described in ⇒ Chapter 2.3 "Ring cutters" on page 10.
If a ring cutter can no longer be properly fitted to the fixing bolt and locked, it must be exchanged.



[a]



[b]

Condition of the ring cutter

[a]: Ring cutter OK

[b]: Exchange the ring cutter



7.1 Conformity of rigging components

This declaration applies to:

d&b XSLi loudspeaker cabinets

(with integrated rigging components.)

- Z0776 XSLi8
- Z0777 XSLi12
- Z0778 XSLi-SUB

d&b XSLi rigging components

(including all additional components.)

- Z5787.000 XSLi Top mounting frame
- Z5788 XSLi-SUB Mounting frame
- Z5780 XSLi-SUB Adapter frame

by d&b audiotechnik GmbH & Co. KG.

All product variants are included, provided they correspond to the original technical version and have not been subject to any later design or electromechanical modifications.

We herewith declare that said products are in conformity with the provisions of the respective directives including all applicable amendments.

Detailed and applicable declarations are available on request and can be ordered from d&b or downloaded from the d&b website at www.dbaudio.com.

WEEE-Reg.-Nr. DE: 13421928

7.2 Disposal

When out of use the rigging components must be disposed of in accordance with the national environmental regulations.

Ensure that damaged rigging components are disposed of in a way that they cannot be used again.

