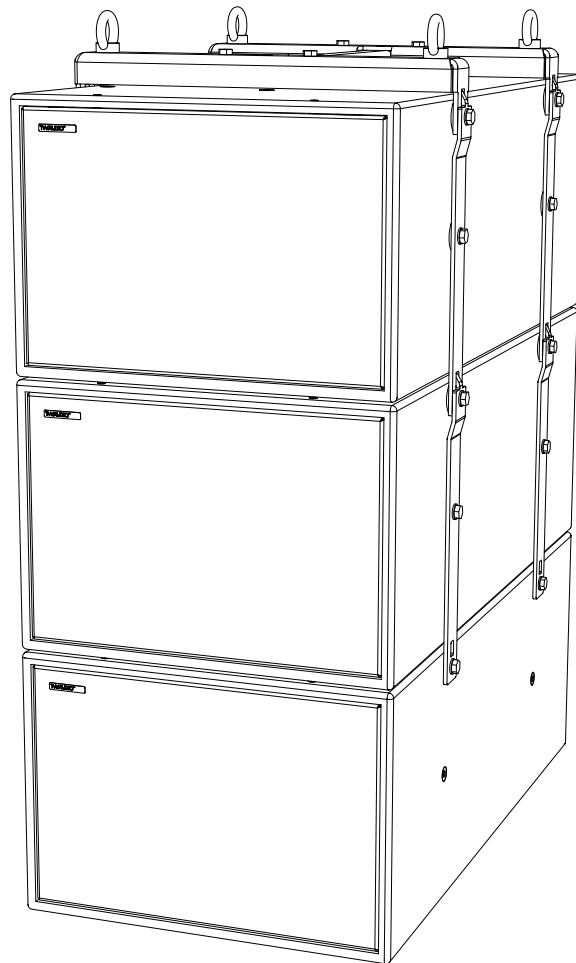




Introduction

Thank you for choosing a high-quality product “MADE IN GERMANY” from the brand TWAUDIÖ.

The horizontal and vertical bracket sets as well as the two mounting plate sets are accessories for the various application possibilities of the B24i loudspeaker.

This accessory is characterized by its discreet appearance, size and weight ratio, and uncomplicated and quick handling.

If you lend your product to another party, inform that party of the safety-related operating procedures and hand over this assembly guide. If you require additional copies of this manual, you can obtain them free of charge from TWAUDIÖ or download them from www.twaudio.de

Instructions in this user manual

Strictly adhere to the instructions contained in this operating manual that are marked as follows:



This symbol in combination with the signal word “Warning” identifies a potentially hazardous situation. Failure to comply with this safety instruction can lead to serious injury or even death.



This symbol in combination with the signal word “Warning” identifies a potentially hazardous situation for persons with a pacemaker. Failure to comply with this safety instruction can lead to serious injury or even death.



This symbol in combination with the signal word “Caution” identifies a potentially hazardous situation. Failure to comply with this safety instruction can lead to light or moderate injury.



This symbol in combination with the signal word “Note” identifies a potentially hazardous situation. Failure to comply with this safety instruction can lead to product damage.



This symbol in combination with the signal word “Tip” identifies additional information or notes that will simplify working with TWAUDIÖ products on the basis of practical experience.

Notes on the products

Read manual before use!

Before using all the rigging components, carefully read the rigging book and keep it with the components.

General information

Rigging manual: Rm-B24i-system

Version 1.0 en, 02/2026

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All information contained in this operating manual was correct to the best of our knowledge at the time of printing.

Quality warranties or assurance of suitability for a certain type of use based on the technical specifications, dimensions and weights are not granted by TWAUDIÖ.

TWAUDIÖ also shall not assume liability for any secondary damage (property damage and/or personal injury) nor for the failure to comply with this operating manual!

TWAUDIÖ reserves the right to update this document based on recent developments.

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1. Safety | Intended use

Please adhere to the following safety instructions to avoid risks when using accessories.

The rigging components are developed for use in professional sound systems. The rigging components may only be used by trained and qualified personnel.

Note the operating modes described in this assembly instructions. Other uses are not permissible.

Damage caused by improper use is not covered by TWAUDIÖ.



Before every operation, check the integrity of each rigging component(s) and ensure that all parts are in perfect condition.

The scope of delivery includes specified components. Only use the recommended and certified components.



This rigging manual describes how to use the rigging components correctly. Any other use shall be deemed improper and may result in damage or even injury.

Modifications or alterations to individual parts of the rigging components are not permitted! Danger to life!



The rigging components are designed both for indoor and outdoor use.



The rigging components may only be used by trained and qualified personnel. Personnel must check the rigging components for suitability before each use.



The rigging components must be taken out of operation immediately as soon as visible damage to the parts can be seen.



Please keep all elements of the rigging components away from children! The small parts can easily be swallowed and lead to suffocation!



Every rigging component has a certified payload / Safe Working Load (SWL). Do not exceed this payload.

The respective maximum payload (SWL) can be found in the subchapters in chapter 2.1.



Before mounting the rigging components check that e.g. ceilings, trussus and tripods are capable to carrying the payload of the components.



Make sure that no water pipes, electrical lines or any other lines are behind the intended place of mounting.



Only use wall plugs and screws which are suitable for the intended mounting and structural fabric. All screws must be set and tightened properly. Ensure that the fixing holes have the correct depth and diameter. Always use all fixing holes.



When moving (assembling, dismantling, maintaining) the rigging components with loudspeaker, ensure sufficient space to prevent collisions with other objects.



Do not squeeze or twist the electrical cables of the loudspeaker during the installation of the rigging components! The respective national electrotechnical rules and regulations are applicable.

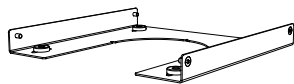


All screw connections should be checked each time the rigging components are installed. Tighten all loose screws. If this is no longer possible, the screws must be replaced.

2. System components

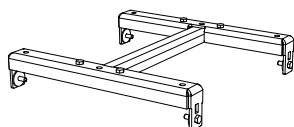
2.1 Rigging components

2.1.1 HMPB24i Mounting plate horizontal



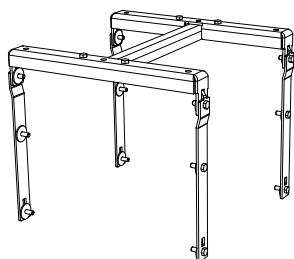
maximum load capacity:	1x B24i
Accessories: connecting material	
Weight	4,8kg [10.58lbs]
Surface	Powder-coated

2.1.2 HBB24i Bracket horizontal

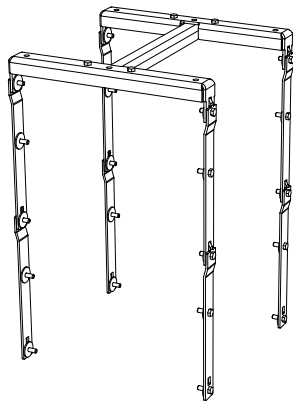


maximum load capacity:	1x B24i
consisting of: 2x crossbeam, 1x longitudinal beam, and connecting material	
Weight	9,2kg [20.28lbs]
Surface	Powder-coated

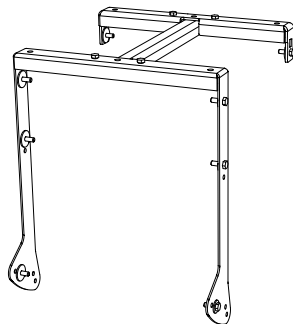
2.1.3 HB2B24i Bracket horizontal



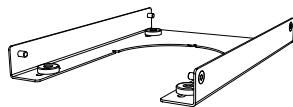
maximum load capacity:	2x B24i
consisting of: 2x crossbeam, 1x longitudinal beam, 4x outer splay links and connecting material	
Weight	12,6kg [27.78lbs]
Surface	Powder-coated

2.1.4 HB3B24i Bracket horizontal

maximum load capacity: consisting of: 2x crossbeam, 1x longitudinal beam, 8x outer splay links and connecting material	3x B24i
Weight	16 kg [35.27 lbs]
Surface	Powder-coated

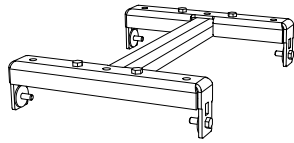
2.1.5 HBB24iT Bracket horizontal

maximum load capacity: consisting of: 1x HBB12iT 1x crossbeam, 1x longitudinal beam, and connecting material	1x B24i + 1x M10i
Weight	10,9kg [24.03 lbs]
Surface	Powder-coated

2.1.6 VMPB24i Mounting plate vertical

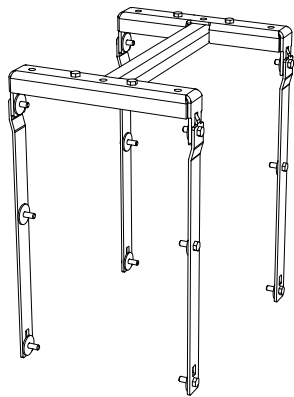
maximum load capacity: Accessories: connecting material	1x B24i
Weight	3,6kg [7.94 lbs]
Surface	Powder-coated

2.1.7 VBB24i Bracket vertical



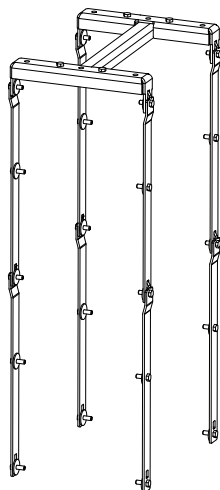
maximum load capacity:	
consisting of: 2x crossbeam, 1x longitudinal beam, and connecting material	1x B24i
Weight	7,7 kg [16.98 lbs]
Surface	Powder-coated

2.1.8 VB2B24i Bracket vertical



maximum load capacity:	
consisting of: 2x crossbeam, 1x longitudinal beam, 4x outer splay link and connecting material	2x B24i
Weight	11,6 kg [25.57 lbs]
Surface	Powder-coated

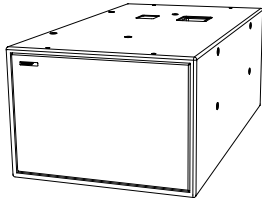
2.1.9 VB3B24i Bracket vertical



maximum load capacity:	
consisting of: 2x crossbeam, 1x longitudinal beam, 8x outer splay link and connecting material	3x B24i
Weight	15,5 kg [34.17 lbs]
Surface	Powder-coated

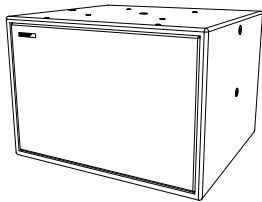
2.2 Loudspeaker

2.2.1 B24i



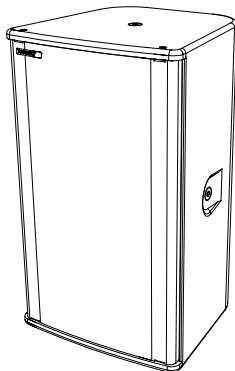
Drivers	1x 12" LF front / 1x 12" LF rear
Dimensions (w x h x d)	500 x 350 x 900mm [19,69 x 13,78 x 35,43 in]
Weight	36,5 kg [58.42 lbs]
Surface	Warnex textured paint

2.2.2 B12i



Drivers	1x 12" LF
Dimensions (w x h x d)	500 x 350 x 450mm [19,69 x 13,78x 17,72 in]
Weight	19,2 kg [42.33 lbs]
Surface	Warnex textured paint

2.2.3 M10i



Drivers	1x 10" LF / 1x 1,4" HF
Dimensions (w x h x d)	300 x 500 x 280mm [11,81 x 19,69 x 11,02 in]
Weight	15 kg [33 lbs]
Surface	Warnex textured paint

2.3 Components brackets

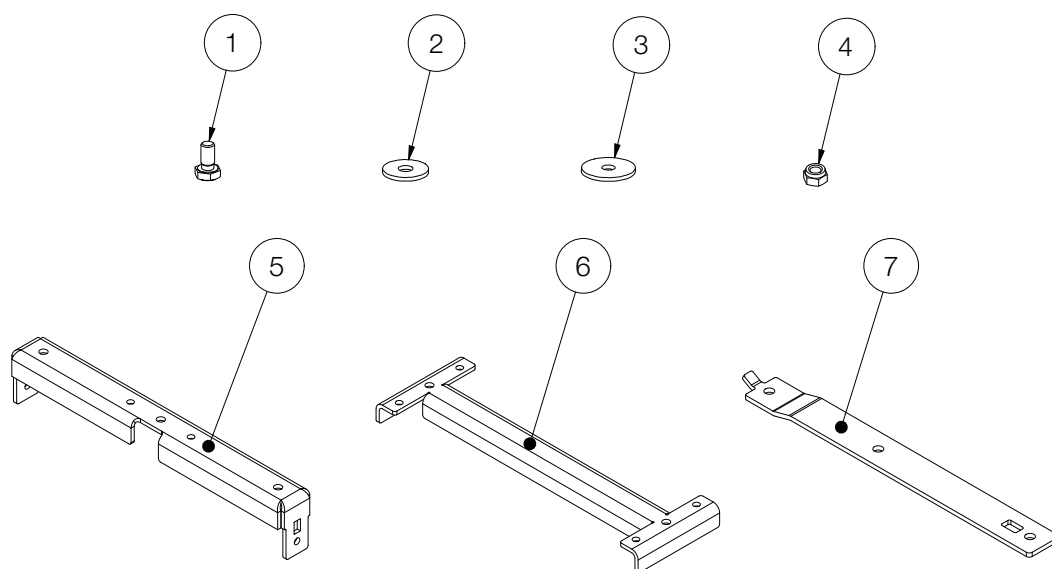


Figure 2.3 - Overview

1. Hexagon screw M10 x 30
2. Washer (metal)
3. Rubber break washer
4. Hexagon nut M10
5. Crossbeam
6. Longitudinal beam
7. Outer splay links

	Number of individual positions						
Item:	Pos.1	Pos.2	Pos.3	Pos.4	Pos.5	Pos.6	Pos.7
HBB24i	8	8	4	4	2	1	-
HB2B24i	16	16	12	4	2	1	4
HB3B24i	24	24	20	4	2	1	8
HBB24iT	10	10	6	4	1 + HBB12iT	1	-
VBB24i	8	8	4	4	2	1	-
VB2B24i	16	16	12	4	2	1	4
VB3B24i	24	24	20	4	2	1	8

2.4 Components mounting plate

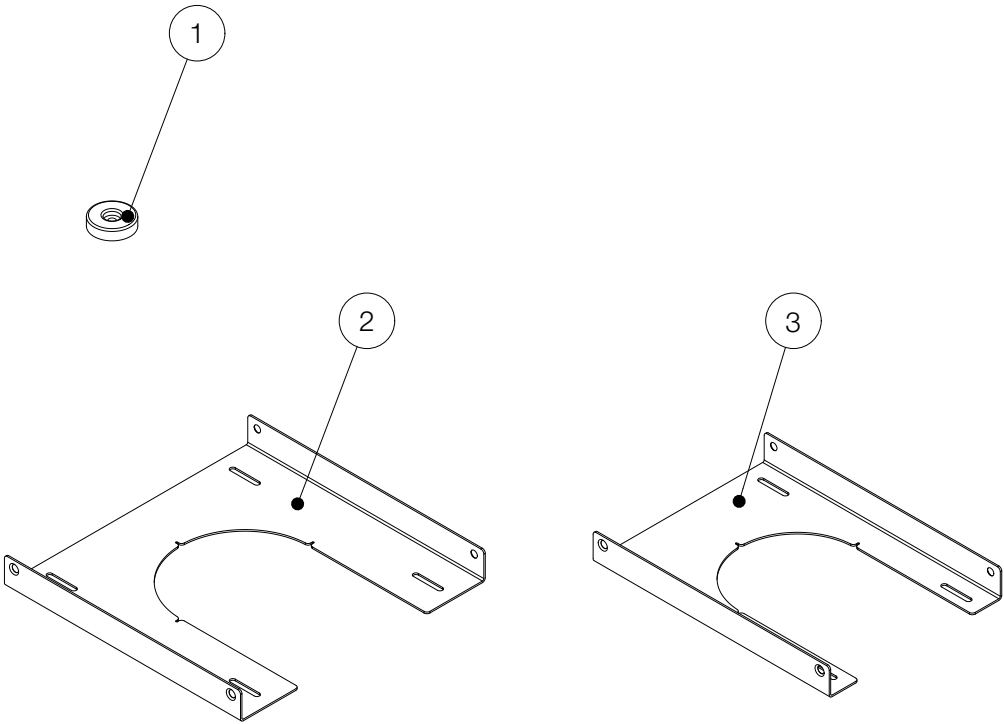


Figure 2.4 - Overview

- 1. Rubber feed
- 2. Mounting plate HMPB24i
- 3. Mounting plate VMPB24i

	Number of individual positions		
Item:	Pos.1	Pos.2	Pos.3
HMPB24i	4	1	-
VMPB24i	4	-	1

3. Commissioning

3.1 Setup

The rigging components HMPB24i and VMPB24i are designed for the stacking operation.

The rigging components HBB24i, HB2B24i, HB3B24i, HBB24iT, VBB24i, VB2B24i and VB3B24i are designed for the hanging operation.

TWAUDIÖ provides a wide range of accessories to securely attach the rigging components.



Make sure that all system structures are located on a firm, level surface and that the surface can bear the total weight!



Please note that setting up the system setups always requires two persons!



TWAUDIÖ recommends using only the accessories specified by TWAUDIÖ for securing and mounting loudspeakers.

3.2 Wind load



Before setting up the system outdoors, consider unexpected wind conditions at the operation site!

Disassemble your system immediately when wind speeds exceed 8 bft (34 to 40 kn / 62 to 74 kph / 38.5 to 46 mph) and secure the system components!

Make sure that there are no persons in the immediate vicinity of the system structure!



Make sure that the system structures are not operated over the audience at wind speeds in excess of 6 bft (22 to 27 kn / 39 to 49 kph / 24.2 to 30.45 mph) and that there are no persons in the immediate vicinity of the system structure!

3.3 HMPB24i and VMPB24i mounting plates

The following chapters describe how to position and mount a single B24i loudspeaker horizontally or vertically.



Before starting the mounting of your system setup, always observe the respective safety instructions!

This rigging manual contains all general safety instructions for all rigging components are summarized in chapter 1.



Any influences on your system setup, such as leaning against objects (or people) and flying objects around, be refrained from!

3.3.1 Alignment of the HMBP24i and VMPB24i mounting plates

To mount several B24i loudspeakers side by side in a straight line on the floor, it is possible to align the mounting plates using a crosshair. The three notches on the mounting plates allow them to be aligned with the crosshairs.

When correctly mounted, the center of the crosshairs corresponds to the center of the B24i loudspeaker.

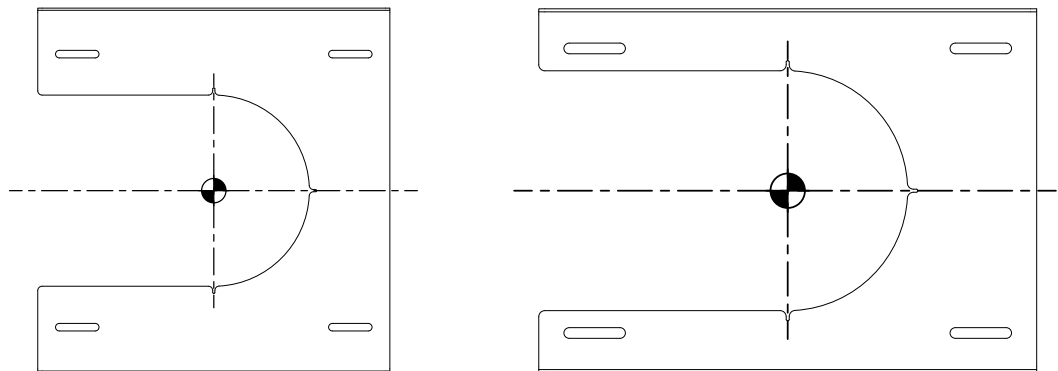


Figure 3.3.1 - Alignment of the mounting plates

3.3.2 Marking the mounting holes

After aligning the mounting plates using the crosshairs, the required mounting holes can be marked in the elongated holes of the mounting plates.

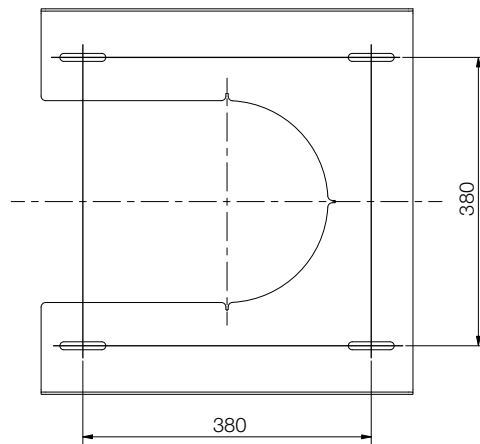


Figure 3.3.2.1 - Dimensions of the mounting holes of the HMPB24i mounting plate

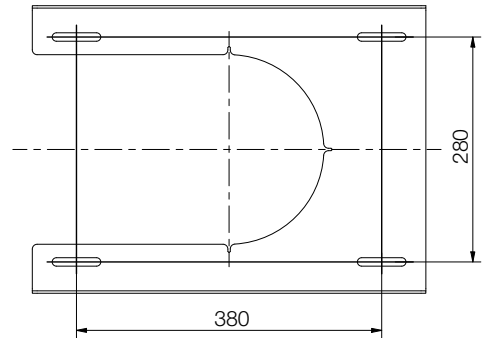


Figure 3.3.2.2 - Dimensions of the mounting holes of the VMPB24i mounting plate

3.3.3 Instructions for attaching the mounting plate



NOTE

Please note that the HMPB24i and VMPB24i do not include mounting screws for the floor.



WARNING

Only use wall plugs and screws which are suitable for the intended mounting and structural fabric. All screws must be set and tightened properly. Ensure that the fixing holes have the correct depth and diameter. Always use all fixing holes.



WARNING

Make sure that no water pipes, electrical lines or any other lines are behind the intended place of mounting.



WARNING

When moving (assembling, dismantling, maintaining) the rigging components, ensure sufficient space to prevent collisions with other objects.



CAUTION

Do not squeeze or twist the electrical cables of the loudspeakers during the installation of the rigging components. The respective national electrotechnical rules and regulations are applicable.

3.3.4 Securing the mounting plate to the floor



Use the included rubber buffers as washers for your mounting screws.

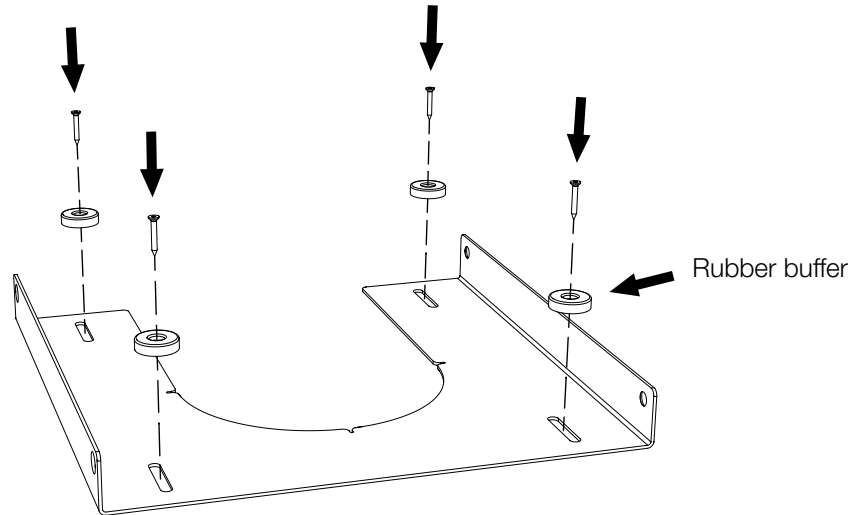


Figure 3.3.4 - Securing the mounting plate to the floor

3.3.5 Removing the M10 countersunk screws on the B24i loudspeaker

1. For the four lower M10 countersunk screws, use a utility knife to cut into the textured paint so that you can remove the countersunk screws. Be careful not to damage the surrounding paint.
2. Carefully remove the four lower countersunk screws. Use a TX50 internal hexagon wrench for this.

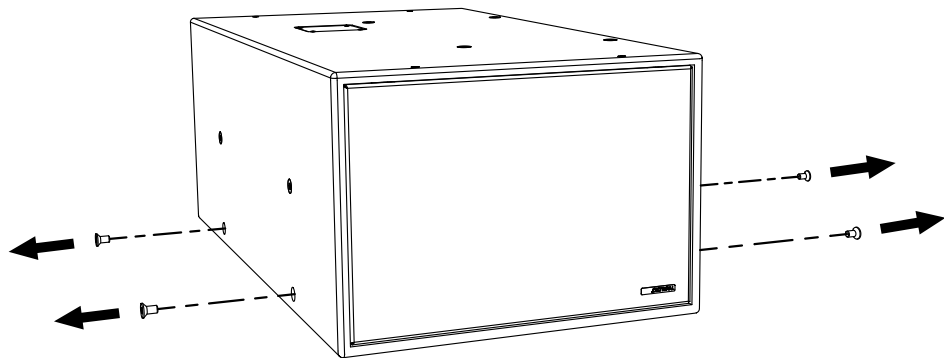


Figure 3.3.5 - Removing the M10 countersunk screws from the B24i loudspeaker

3.3.6 Grille on the B24i loudspeaker

When using the HMPB24i mounting plate, the B24i loudspeaker is orientated upside down on the HMPB24i mounting plate due to the mounting screws.

To reposition the logos on the front grilles to the upper left corners, rotate the front grilles.

To do this, proceed as follows:

1. Carefully remove all eight countersunk screws from the two grilles of the B24i loudspeaker.
2. Turn both grilles over and screw them back into place using all eight countersunk screws.

3.3.7 Standard i-series screw terminal

Please note that when the B24i loudspeaker is positioned horizontally, the screw terminals are located at the top and bottom.



Wire the B24i loudspeaker via the bottom screw terminal.



Cover the top screw terminal of the B24i loudspeaker with the blind plate to avoid exposed contacts.

Please note that when the B24i loudspeaker is oriented vertically, the screw terminals are located on the side.



Wire the B24i loudspeaker via the screw terminal or CG option located on the inaccessible side.



Cover the exposed screw terminal of the B24i loudspeaker with the blind plate to avoid exposed contacts.

3.3.8 Mounting the B24i loudspeaker on the mounting plate

1. Place the B24i loudspeaker on the rubber feet in the mounting plate.
2. Connect your cable to the B24i loudspeaker.
3. Attach the blind plate according to section 3.3.7.
4. Secure the B24i loudspeaker to the mounting plate using the four countersunk screws on both sides. Use a TX50 internal hexagon wrench for this.

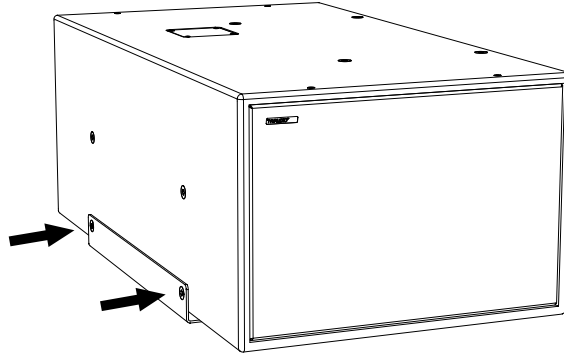


Figure 3.3.8 - Attaching the M10 countersunk screws to the B24i loudspeaker

3.4 Mounting of the HBB24i and VBB24i

1. Place the two crossbeams (see figure 2.3, item 5) upside down on a protected work surface.
2. Then place the longitudinal beam (see figure 2.3, item 6) onto the two crossbeams so that it lies in the recesses.
3. Insert four hexagon screws (see Figure 2.3, item 1) through the holes from below (see figure 3.4.1).
4. Place four metal washers (see figure 2.3, item 2) onto the hexagon screws and then tighten them with four hexagon nuts (see figure 2.3, item 4).

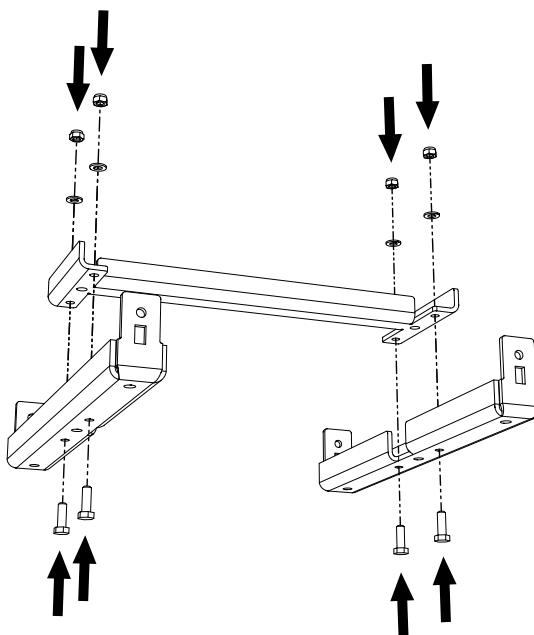


Figure 3.4.1 - Mounting of the HBB24i or VBB24i

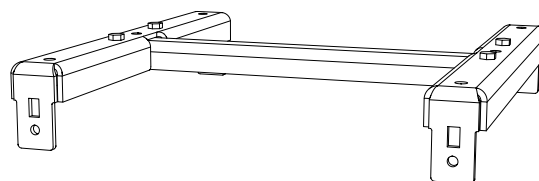


Figure 3.4.2 - Fully assembled HBB24i

3.5 Mounting of eyebolts and eye nuts on HBB24i or VBB24i

When installing up to two B24i loudspeakers with HBB24i or up to three with VBB24i:

Attach two M12 ring nuts together with two M12x30 hex bolts to the bracket HBB24i or VBB24i (see Figure 3.5.1).

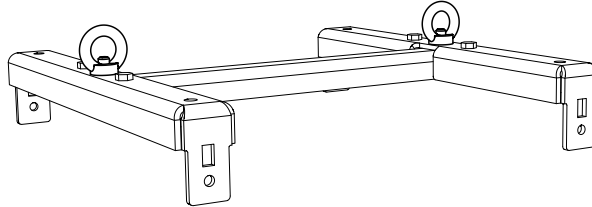


Figure 3.5.1 - Assembly example of two central ring nuts and hexagon screws

When installing three B24i loudspeakers with HB3B24i:

Attach four M12 eyebolts together with four M12 hex nuts to the HBB24i or VBB24i bracket.

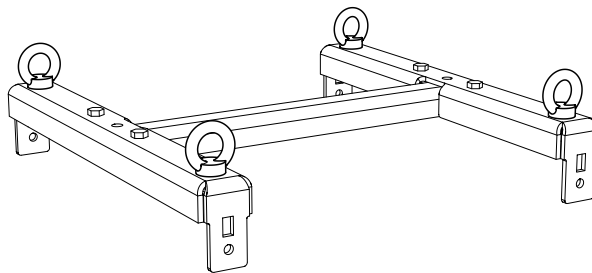


Figure 3.5.2 - Assembly example of four external eye bolts and hexagon nuts

Please note that the eye bolts and nuts, as well as the hexagon bolts and nuts, are not included in the scope of delivery.



Before starting the mounting of your system setup, always observe the respective safety instructions!

This rigging manual contains all general safety instructions for all rigging components are summarized in chapter 1.

In addition, before each assembly of the individual rigging components, observe their operating and safety instructions!



For every system assembly, use eyebolts and eyenuts that are appropriately designed for the expected total weight of the system assembly.

3.6 Removing the M10 countersunk screws on the B24i loudspeaker

For the M10 countersunk screws, cut into the textured paint with a utility knife so that you can remove the countersunk screws. Be careful not to damage the surrounding paint.

When using a B24i loudspeaker, carefully remove the top four countersunk screws using a TX50 torx key.

Only when using two or three B24i loudspeakers, carefully remove the top four countersunk screws from the second or third speaker.

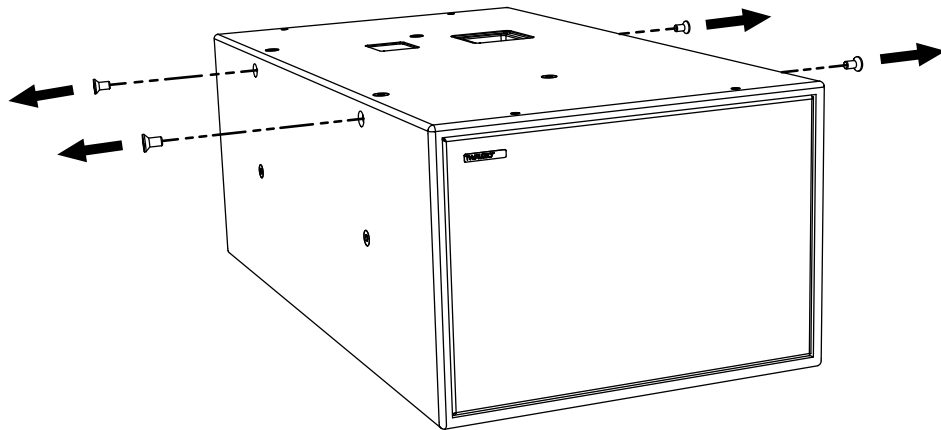


Figure 3.6.1 - Removing the M10 countersunk screws when using HBB24i brackets

When using two B24i loudspeakers one above the other, carefully remove all eight countersunk screws from the first B24i loudspeaker using a TX50 internal hexagon wrench.

When using three B24i loudspeakers stacked on top of each other, carefully remove all eight countersunk screws from the first and second B24i loudspeakers.

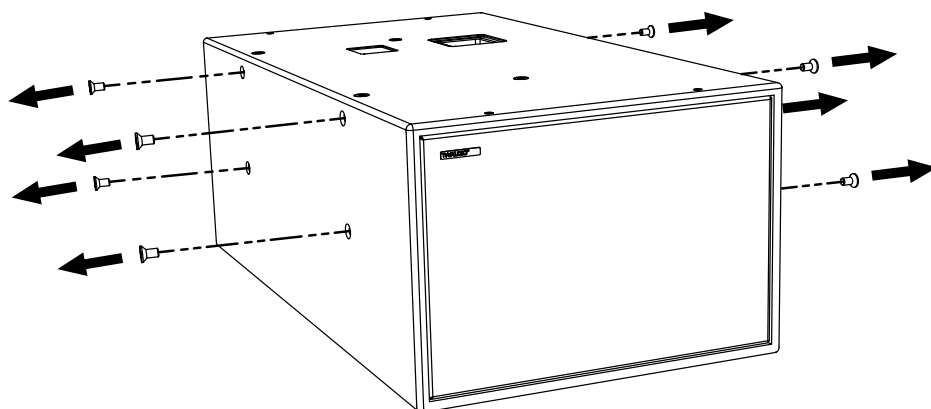


Figure 3.6.2 - Example of removing the M10 countersunk screws when using HBB24i brackets

3.7 Mounting HBB24i or VBB24i at one B24i loudspeaker



Assemble Pos. 1 to 3 (see Figure 2.3) on both sides as shown in Figure 3.7.1. Please note that all 4 side holes are used at the B24i loudspeaker.

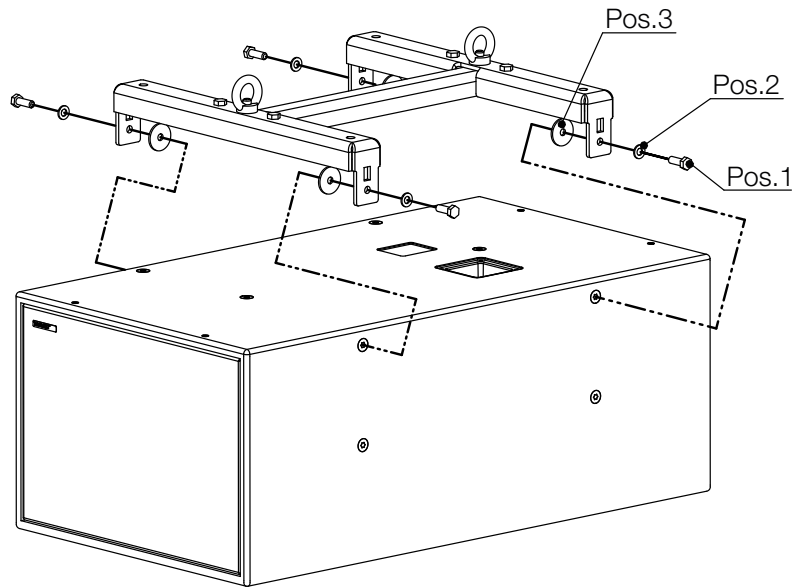


Figure 3.7.1 - Mounting example: HBB24i on the B24i loudspeaker

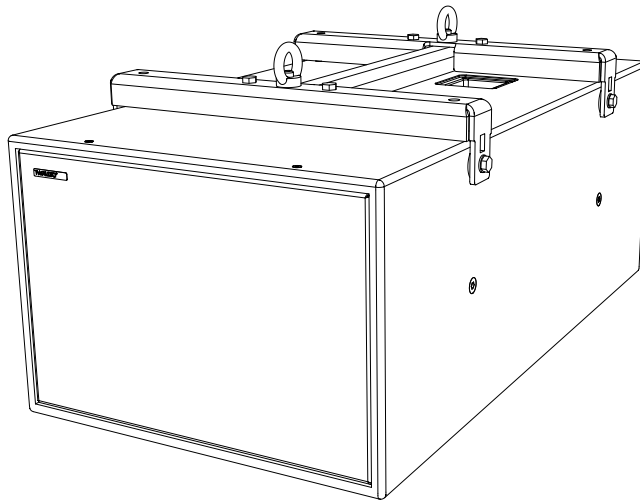


Figure 3.7.2 - Mounting example: HBB24i fully assembled on the B24i loudspeaker

3.8 Mounting HB2B24i or VB2B24i to two B24i loudspeakers



Assemble Pos. 1 to 3 and 7 (see Figure 2.3) on both sides as shown in Figure 3.8.1. Please note that all 12 side holes are used at the two B24i loudspeakers.

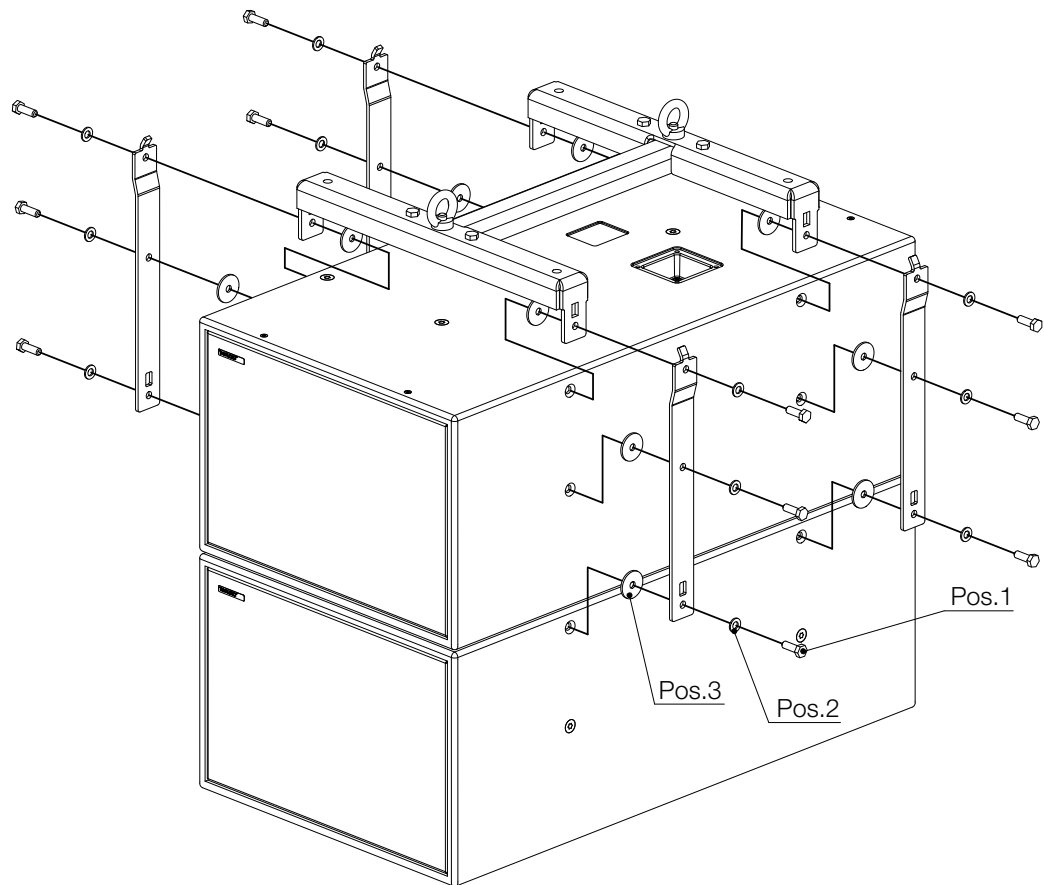


Figure 3.8.1 - Mounting example: HBB24i on two B24i loudspeakers

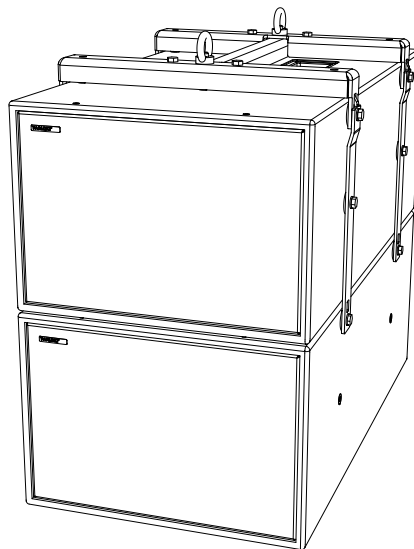


Figure 3.8.2 - Mounting example: HBB24i fully assembled on two B24i loudspeakers

3.9 Mounting HB3B24i or VB3B24i to three B24i loudspeakers



Assemble Pos. 1 to 3 and 7 (see Figure 2.3) on both sides as shown in Figure 3.9.1. Please note that all 20 side holes are used at the three B24i loudspeakers.

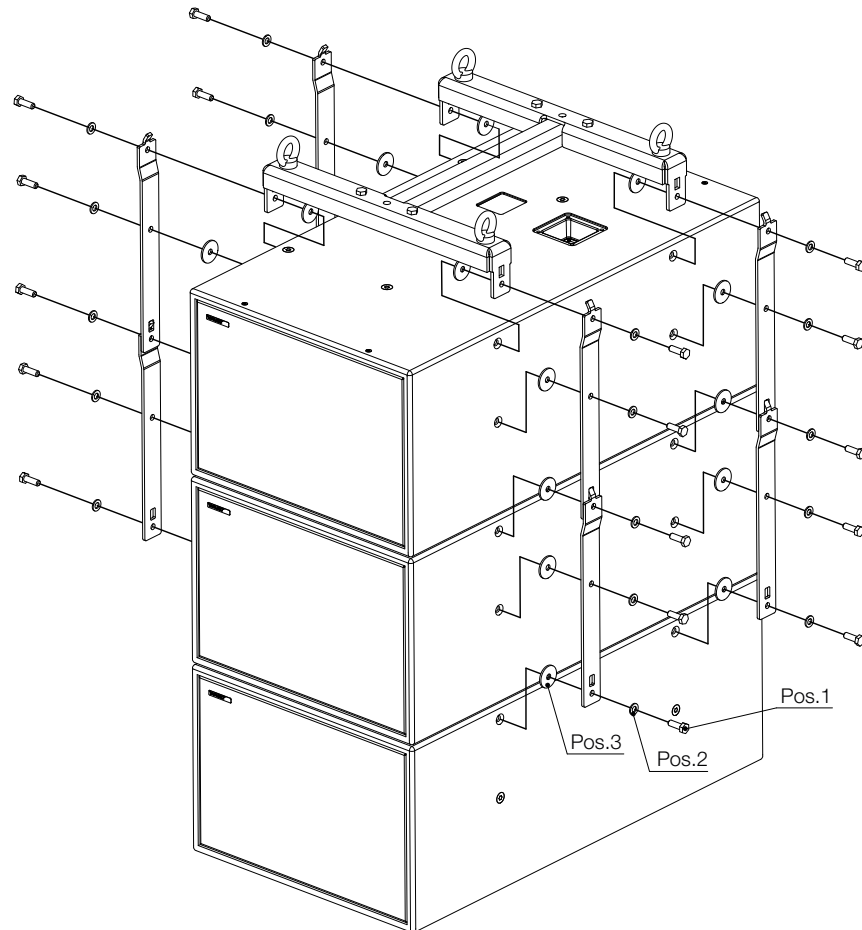


Figure 3.9.1 - Mounting example: HBB24i on three B24i loudspeakers

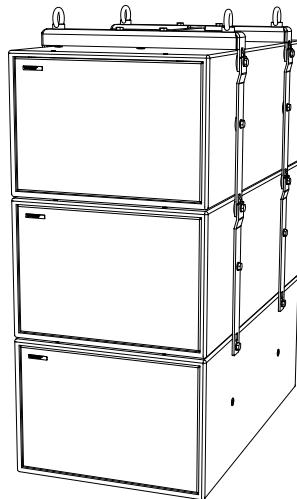


Figure 3.9.2 - Mounting example: HBB24i fully assembled on three B24i loudspeakers

3.10 HBB24iT mounted on the B24i and M10i loudspeaker



Assemble Pos. 1 to 3 (see Figure 2.3) on both sides as shown in Figure 3.10.1. Please note that the B24i loudspeaker uses four side holes, while the M10i loudspeaker uses the top and bottom holes.

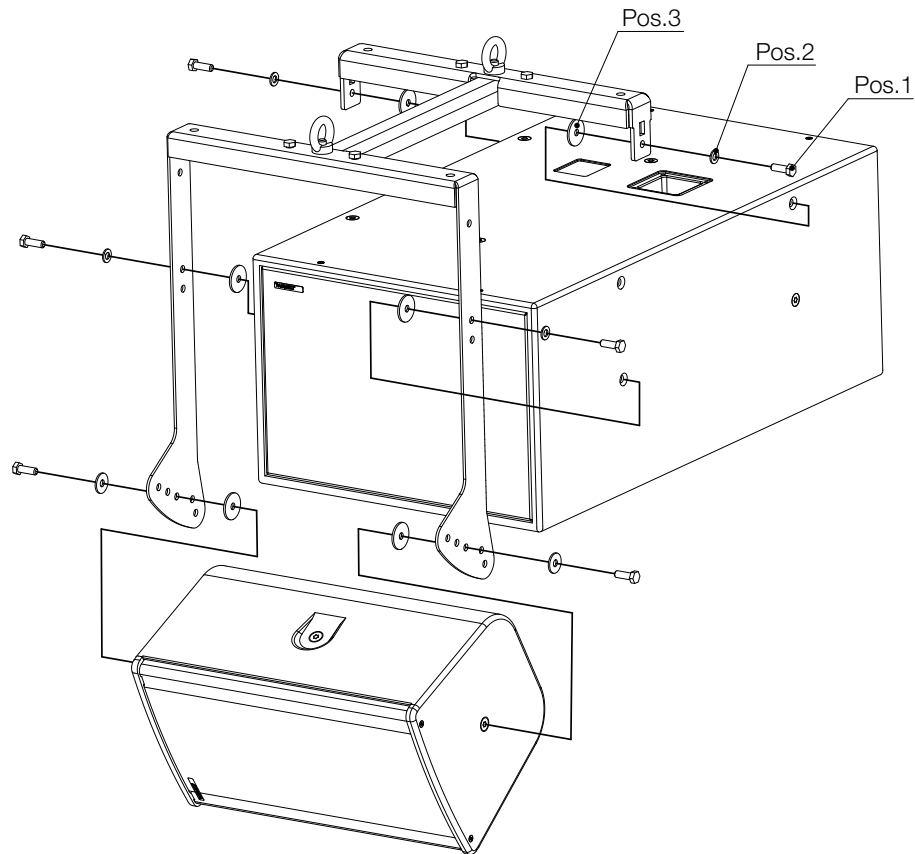


Figure 3.10.1 - HBB24iT mounted on the B24i and M10i loudspeaker

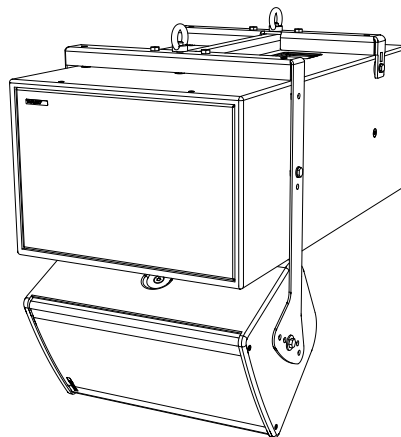


Figure 3.10.2 - HBB24iT mounted on the B24i and M10i loudspeaker fully assembled

3.11 Adjustable angles of the M10i loudspeaker



The M10i loudspeaker can be mounted in three different holes.

It can be swivelled by more than 90° in the lower hole.

3.11.1 Upper hole

In the upper hole, the angle of inclination is -7° downtilt.

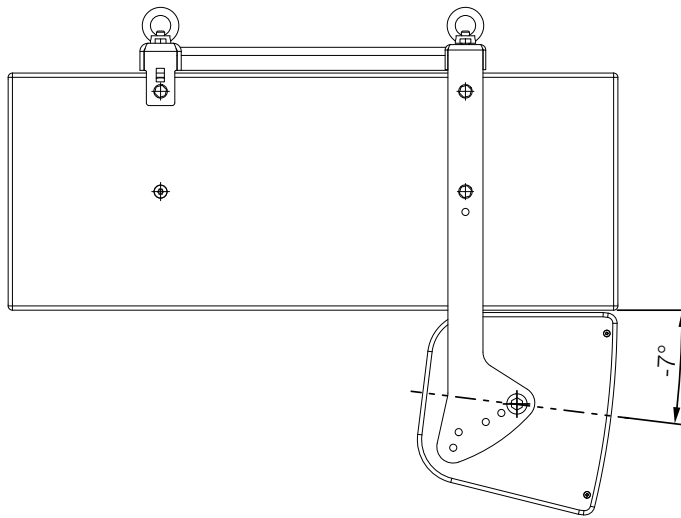


Figure 3.11.1 - Downtilt at upper hole

3.11.2 Medium hole

In the middle hole, a downtilt angle between 0° and -23° is possible.

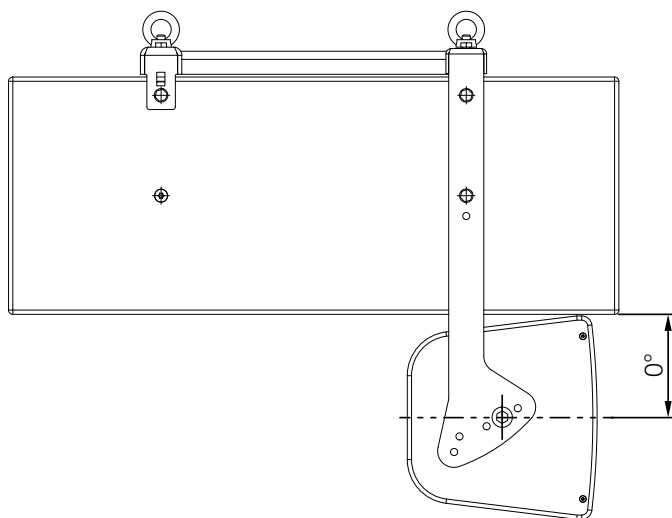


Figure 3.11.2.1 - 0° with medium hole

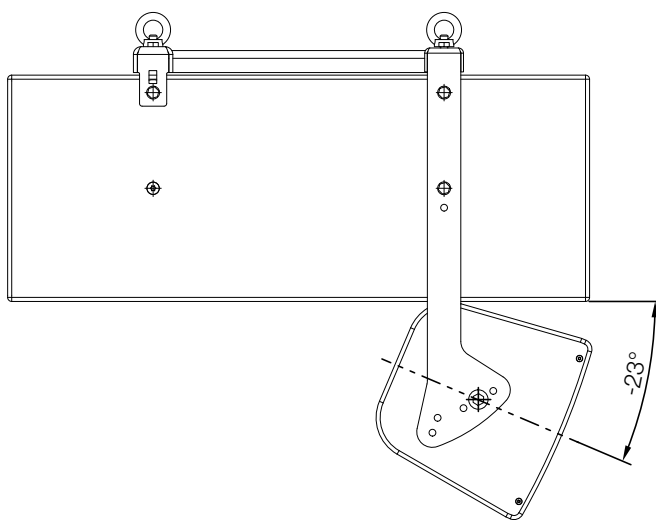


Figure 3.11.2.2 - Downtilt of -23° with medium hole

3.11.3 Lower hole

The M10i loudspeaker can be swivelled by more than -90° in the lower hole. Furthermore, an angle of up to $+8^\circ$ is possible in this position.

The two additional lower holes on the HBB12iT are only used in combination between a B12i subwoofer and an M10i loudspeaker.

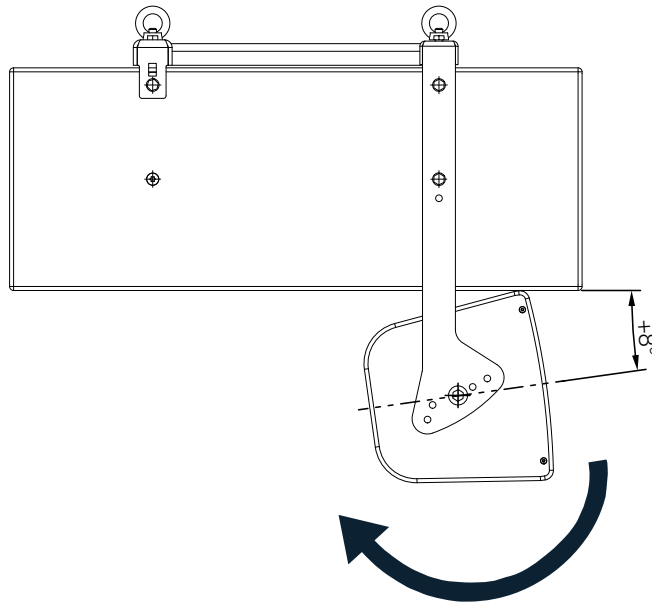


Figure 3.11.3.1 - Uptilt of $+8^\circ$

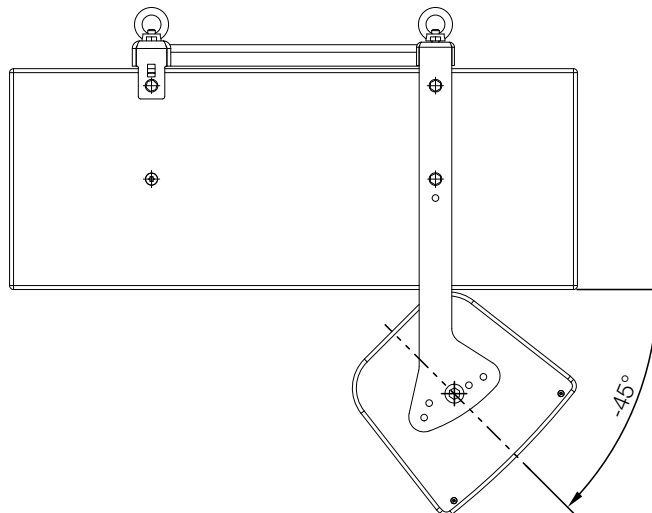


Figure 3.11.3.2 - -45° at lower hole

3.12 Assembly examples B24i vertical

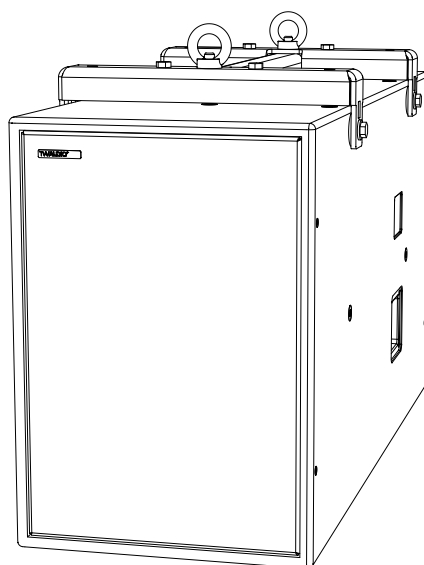


Figure 3.12.1 - VBB24i with B24i loudspeaker

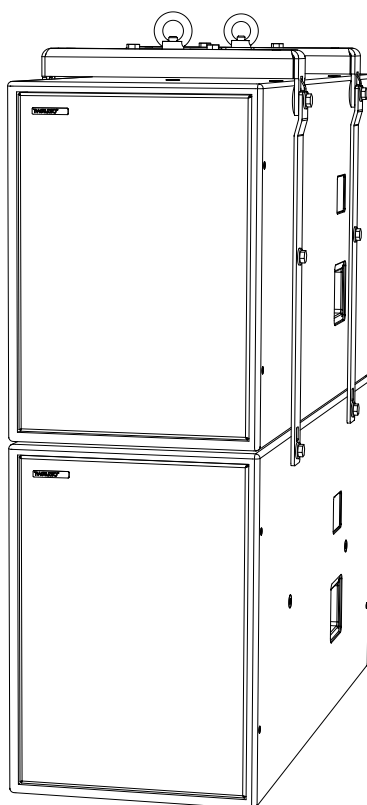


Figure 3.12.2 - VB2B24i with B24i loudspeaker

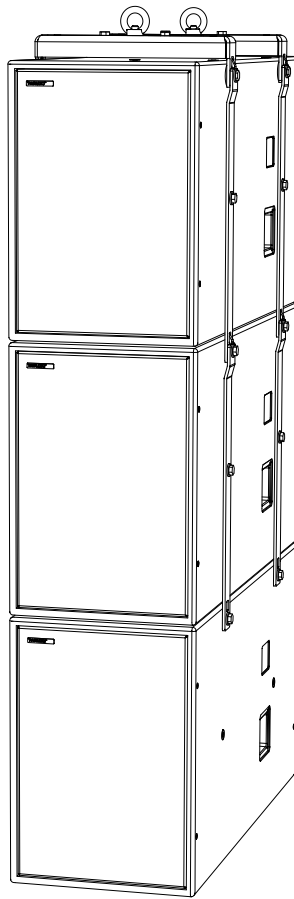


Figure 3.12.3 - VB3B24i with B24i loudspeaker

4. Transport and Storage



Ensure that the surfaces of all rigging components are not damaged during transport and storage. Moisture may penetrate where steel surfaces are exposed by scratches and result in corrosion.

For this reason, the loudspeakers should be transported and stored in a safe, careful, dry and largely dust-free manner.

The following accessory parts for the various rigging components are available from TWAUDIÖ:

- Hexagon screw M10 x 30
- Hexagon nut M10
- Washer (metal)
- Rubber break washer

The original packaging is unsuitable as permanent storage and transport packaging.

5. CE Conformity Declaration

Copy and translation of the original CE Conformity Declaration:



We hereby declare that the below-referenced components by virtue of their design and construction, and in the configuration placed on the market by us, satisfy the safety and health requirements of the applicable EC directives. This declaration becomes invalid in case of modifications that have not been approved by us.

This declaration applies to the following components

- HMPB24i
- HBB24i
- HB2B24i
- HB3B24i
- HBB24iT
- VMPB24i
- VBB24i
- VB2B24i
- VB3B24i

as well as all model variants based on these, provided that they correspond to the original factory models and have not been technically modified in any way.

Applicable directives:

- 2001/95/EG
- 2011/65/EU

Applicable national standards and technical specifications:

- DIN EN 18800
- DIN EN ISO 12100
- DGUV Vorschrift 17 und 18
- EN 50581: 2013-02

Ludwigsburg, Germany, January 1st, 2021

Bernhard Wüstner

6. Disposal

If you have any question regarding the disposal of used devices, please contact us under the following telephone number:

+49 (0) 71 41 - 48 89 89 0

In countries outside of the European Union, comply with local regulations.

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Osterholzallee 140-2
71636 Ludwigsburg
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Fax: + 49 (0) 71 41-48 89 89 99

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