Z5373
T Cluster bracket
Mounting instructions (1.0 EN)

d&b
audiotechnik

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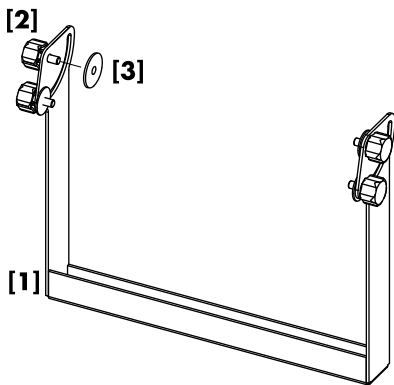
Z5373 T Cluster bracket

Fig. 1:Z5373 T Cluster bracket

1. Product description

The Z5373T Cluster bracket allows up to three T10 loudspeaker cabinets to be mounted and set to different horizontal or vertical angles. For this purpose two M8 threaded inserts at the d&b standard spacing of 115 mm (4.5") together with a center M10 thread are integrated in the tie bar of the bracket.

Scope of supply

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

Qty.	d&b Code	Description
1	Z5373	T Cluster bracket **[1]**
4		Hand bolt M10 x 20 **[2]**
4		Rubber washer **[3]**
1	D2996.INT	Mounting instructions

Technical specification

Weight...3.3 kg (7.3 lb)
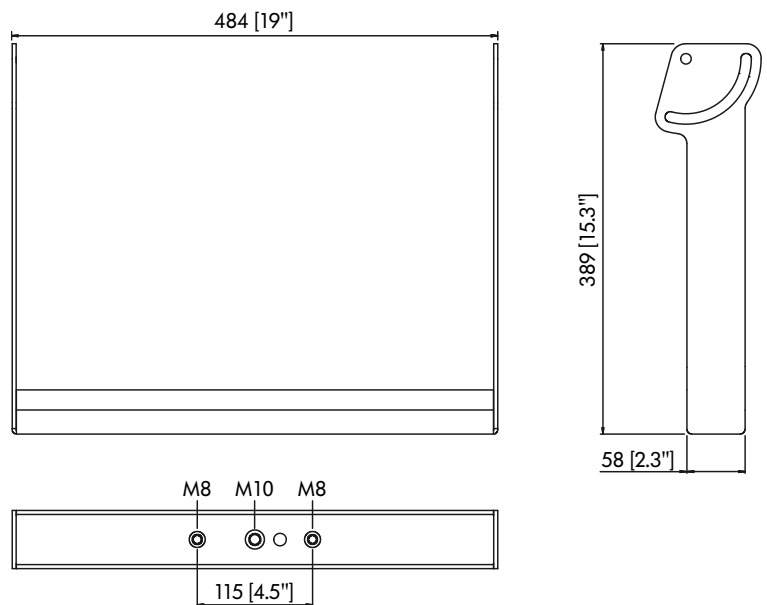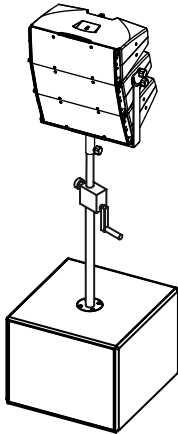

Fig. 2: Dimensions in mm [inch]

1 x Q-SUB max.

2.   Intended use

The Z5373 T Cluster bracket must only be used in conjunction with d&b T10 loudspeakers as described in these mounting instructions.

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.

The Z5024 Loudspeaker stand adapter enables the Cluster bracket to be attached to a loudspeaker stand.

The bracket can be attached on top of maximum one d&b Q-SUB cabinet using the Z5013 Loudspeaker stand M20 along with the Z5024 Loudspeaker stand adapter.

The bracket can be mounted to overhead bars or trusses with a tube diameter of up to 51 mm (2") using the Z5010 TV spigot and the Z5012 Pipe clamp.

3.   Safety precautions

General safety

Always carry out a visual and functional inspection of the bracket before use. In case you have any doubt as to the proper functioning and safety of the bracket, do not use it. Please also refer to section 8. Maintenance and care on page 9.

The total center of gravity of the assembly is located at the very top of the entire assembly.

- Always secure the assembly against movement and possible tipping over.

- Ensure no person is in the direct area around the assembly.

- When the assembly is mounted to overhead bars or trusses ensure the secondary safety is applied.

Load safety information

The maximum permitted working load of the bracket is **33 kg (73 lb)** (according to BGV C1) which corresponds to the weight of a maximum of three T10 loudspeakers.

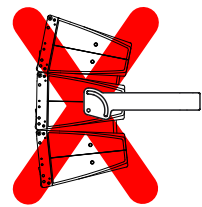**NOTICE:** Always align the bracket vertically when using it, whether it is suspended or placed on top of a loudspeaker stand.
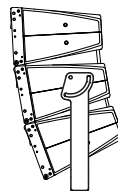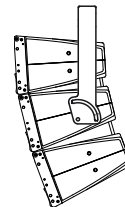

Right   **Right**   **WRONG**

Observe the maximum permitted load of the additional rigging accessories as stated in the respective mounting instructions.

Ensure the loudspeaker stand used is designed to safely support the top load of 37 kg (81.5 lb).

4. Total vertical aiming

Depending on the type of application (deployed on a hi stand or suspended) the bracket can be attached in two directions allowing the vertical aiming of the entire assembly within a range of 105° (+15° to -90° or +90° to -15°).
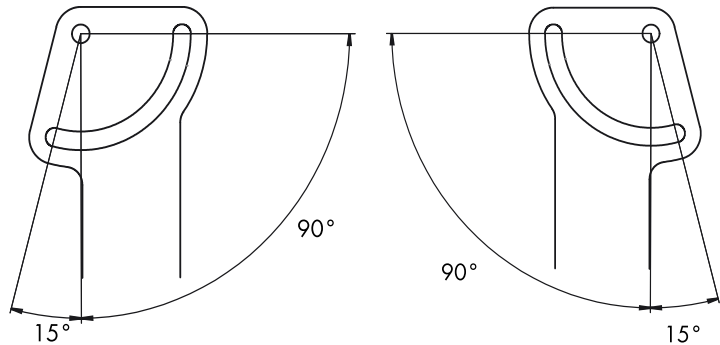
5. Preparations

T10 cabinets

Altering the HF dispersion on T10 cabinets

When setting up T-Series arrays and ground stacks set the T10 cabinets to line source mode.

Swapping between point and line source setups is performed by simply rotating the horn by 90°. The horn is easily accessible from outside of the cabinet and can be rotated without any tools or removal of the front grill.

This is achieved through apertures on the cabinet sides by a mechanism that provides detents at both the line and point source positions.

The line source mode is indicated by a label on the horn marked with LINE as shown in the picture below.
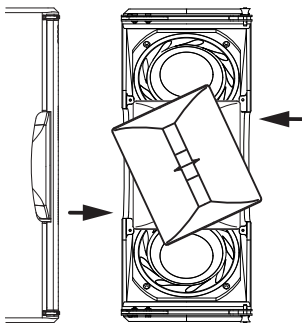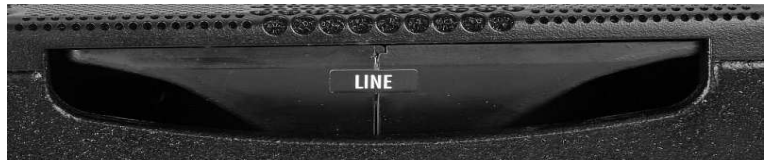

Fig. 3: Rotating the horn
(shown without front grill for better illustration)

Functionality of the cabinet's rigging mechanism
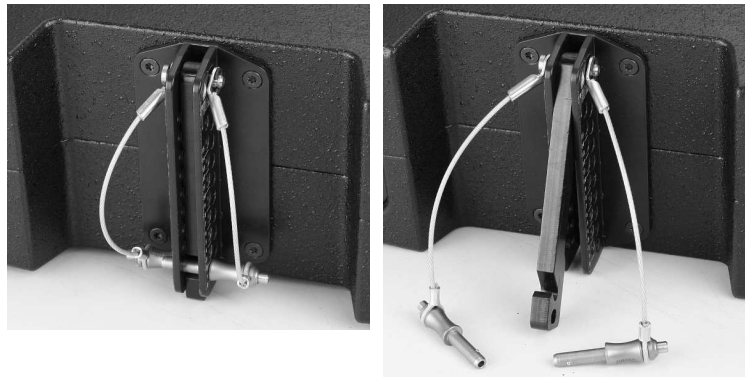
Front link mechanism

- Slide out the Front link until it is fixed in place.
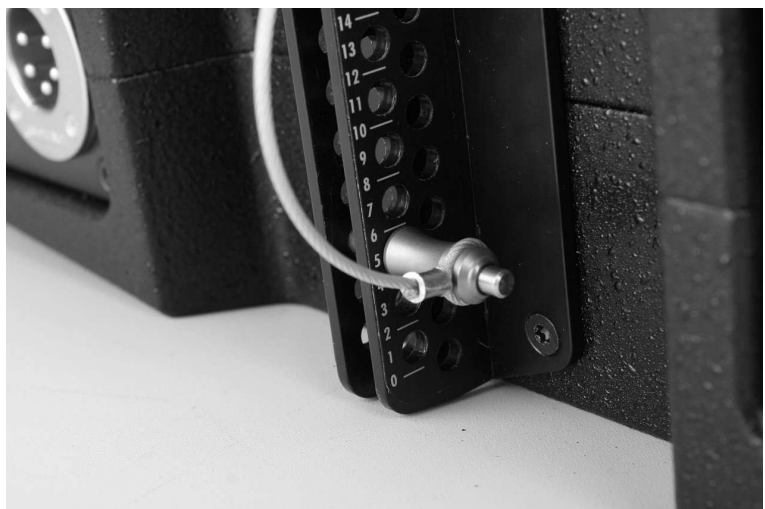
Splay link mechanism

- Release both Locking pins and fold out the Splay link.

Preset splay angles on T10 cabinets

The splay angles between T10 cabinets can be set in the range from 0° to 15° in 1° steps.

The splay angles are set at the central rear rigging strands of the T10 cabinets.

Interconnecting the cabinets

The T10 cabinets are interconnected with their Front links on both sides of the cabinet front and with the Splay links on the center rigging strand at the cabinet's rear.

Front links

Once the Front links slide into the respective track of the next cabinet, the cabinets are interconnected by inserting the Locking pins on both sides of the cabinet.
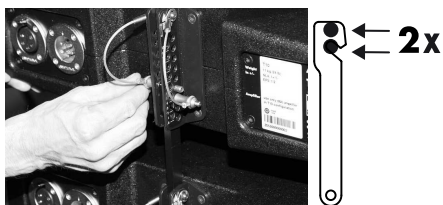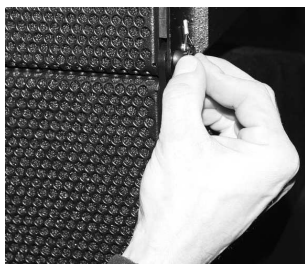
Splay links

Fold out the Splay links of the T10 cabinets and hook them into the preset Locking pins on the rear rigging strand of the next cabinet.

Once the Splay link is hooked in, the second Locking pin must be inserted. The second Locking pin acts as a "safety pin" to secure the Splay link from possible hooking off and to fix the set splay angle.
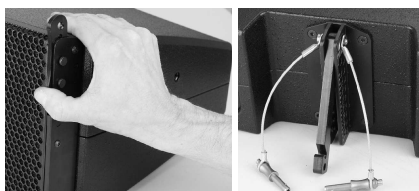

6. Setup of the assembly

Preparations

- Prepare the cables and link cables according to the number of amplifier channels and cabinets used.
- Ensure the HF sections of the T10 cabinets to be used are set to Line source.

1. Prepare the first T10 cabinet

- Place the first cabinet on the ground.
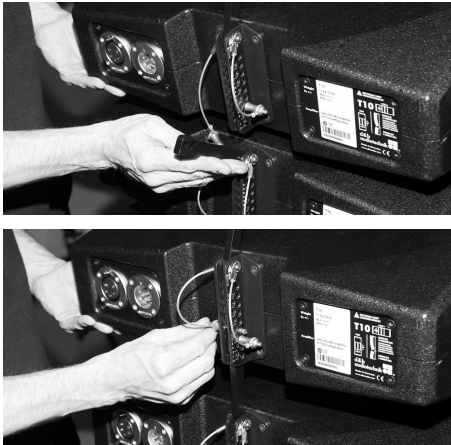- Slide out the Front link
- Fold out the Splay link.

2. Add the next cabinet

- Fold out the Splay link of the next cabinet.
- Release the Locking pins on both sides at the front of the cabinet.
- Attach the cabinet to the first cabinet.
- Insert the Locking pins of the Front links on both sides of the cabinet.

To attach a third cabinet, proceed in the same manner.
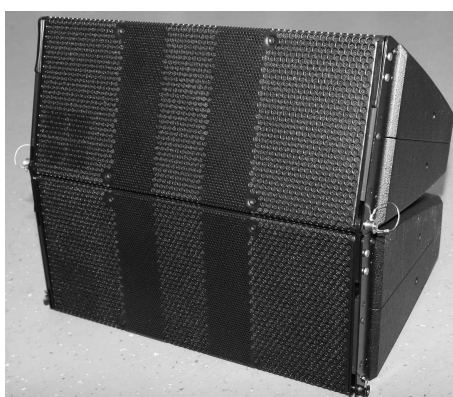
3. Set the desired splay angles

- On the rear, set the splay angles between the cabinets as follows:

    - Starting with the top cabinet of the assembly first preset the desired splay angle by inserting one Locking pin.

    - Fold up the Splay link of the cabinet below into the rear rigging strand of the upper cabinet.

    - Lift the upper cabinet by hand until the hook of the Splay link has hooked into the preset Locking pin.

    - Insert the second Locking pin (safety pin) to secure the Splay link.

- Proceed in the same manner until all splay angles of the cabinets are set.
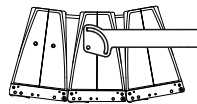
Note: The two Locking pins at the bottom cabinet of the assembly are not used. They should be stored in two of the remaining holes on the rear rigging strand.

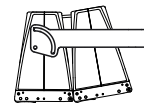### 4. Attach the Cluster bracket to the assembly

- Turn over the assembly with the front grill facing the ground.

- Attach the Cluster bracket with the desired direction as follows:

3-deep	2-deep

- Fix the bracket to the M10 threaded inserts on both sides of the cabinet using the four supplied hand bolts.

7.   Operation

Once the assembly is completed and attached to its operating position, the total vertical and horizontal aiming can be adjusted.

Vertical alignment

- Slightly slacken the four hand bolts [2] until the assembly is just about free to be moved.

- Set the desired vertical aiming of the assembly.

- Retighten all four hand bolts to fix the total vertical angle.

Horizontal alignment

The loudspeaker is aligned horizontally via the Loudspeaker stand adapter or the TV spigot mounting.
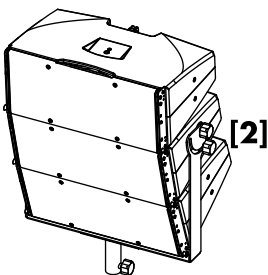
8.   Maintenance and care

Storing/transport

The surface treatment temporarily protects the Flying bracket against moisture. However, ensure the bracket is in a dry state when storing and transporting it.

During transport ensure the bracket is not stressed or damaged by mechanical forces. Use suitable transport cases.

Cleaning

Regularly clean and lubricate the bracket using WD-40® or a similar product.

Inspections

To eliminate the potential risk of accident due to malfunctioning of the bracket, regularly carry out a visual and functional inspection of the bracket.

If the bracket fails to operate correctly and/or safely, it must be withdrawn from use immediately.

Carry out a visual inspection of the bracket for obvious deformation and damage (e.g. cracks and corrosion).

Carry out a visual inspection of the weld strength and the threaded inserts in the tie bar of the bracket for damage (e.g. cracks and corrosion).

9.   Disposal

Please dispose of this product according to the respective national regulations.

Ensure that damaged rigging components are disposed of so that they cannot be used again.

Fig. 4: Threaded inserts in the tie bar

Manufacturer's declarations

EC Declaration of conformity

within the meaning of the EC Machine Directive 98/37/EEC

We hereby declare that the equipment designated below is designed and built in the version sold by us in such a way as to comply with the relevant fundamental safety and health criteria of the applicable EC Directive(s). This declaration shall cease to be valid if alterations are made to the equipment without our prior agreement.

This declarations covers:

d&b T Cluster bracket, Z5373

To be used as described in these mounting instructions.

National standards and technical specifications applied:

DIN EN ISO 12100, DIN EN 1050, BGV C1

Backnang, 2009-01-27

(Frank Bothe, Managing director)

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