

**Z5374**  
**Ti Flying bar**  
**Rigging manual (1.0 EN)**

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## General Information

Z5374 Ti Flying bar  
Rigging manual

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

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# Z5374 Ti Flying bar

## 1. Product description

### Intended use

The Z5374 Ti Flying bar must only be used in conjunction with d&b Ti10L loudspeakers for fixed installations as described in this manual.

The Ti Flying bar allows up to 8 x Ti10L loudspeaker cabinets to be flown at any vertical splay angle profile.

### Scope of supply

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

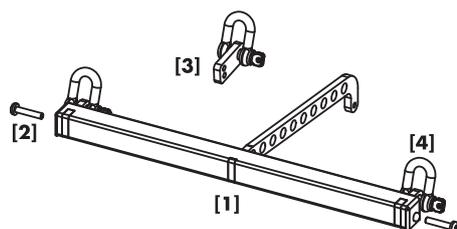


Fig. 1: Z5374 Ti Flying bar components

Qty.	d&b Code	Description
1	Z5374	Ti Flying bar [1]
2		Torx lens head screw M5 x 25 [2]
1		Pullback anchor device [3]
3		1 t shackle [4]
1	D2997.INT	Mounting instructions

### Technical specification

Weight.....1.5 kg (3.3 lb)

## 2. Safety precautions

### General safety

Installation and set up 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 Flying bar before use. In case you have any doubt as to the proper functioning and safety of the bar, do not use it. Please also refer to section 5. Maintenance and care on page 8.

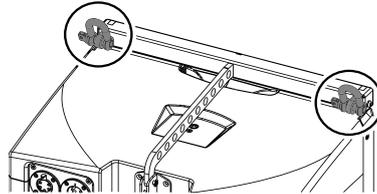
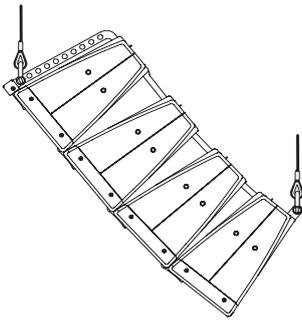
### Load safety information

The maximum permitted working load of the Ti Flying bar is **90 kg (198 lb)** which corresponds to the weight of up to 8 x Ti10L loudspeakers.

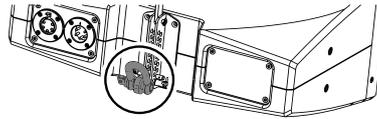
### 3. Suspension of the Flying bar/array

#### Dual pickpoint operation and vertical aiming

- For "Dual pickpoint operation", attach the lifting devices to the two outer pick points of the Flying bar.

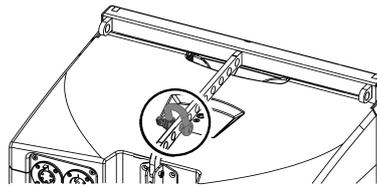


- Attach the Pullback anchor device to the bottom cabinet of the array to permit vertical aiming of the array. (Refer to the following section 4. Setup of the assembly, step 5. Attach the Pullback anchor device to the bottom cabinet on page 7)



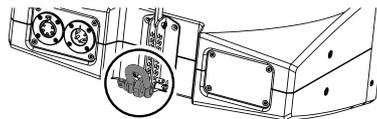
#### Single pickpoint operation and vertical aiming

- For "Single pickpoint operation", attach the lifting device to the center bar of the Flying bar.



The selected hole position defines the vertical aiming of the entire array using the array's center of gravity.

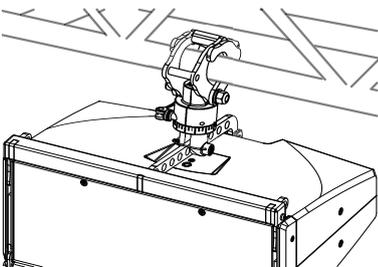
- To achieve more downtilt than is available when using only the array's center of gravity, attach the Pullback anchor device to the bottom cabinet of the array. (Refer to the following section 4. Setup of the assembly, step 5. Attach the Pullback anchor device to the bottom cabinet on page 7)



#### Single pickpoint operation using the d&b Z5147 Rota clamp

Alternatively, the d&b Z5147 Rota clamp can be used to allow the Flying bar to be mounted to overhead bars and trusses with a tube diameter of up to 51 mm (2").

For further information and intended use of the d&b Z5147 Rota clamp, please refer to the respective mounting instructions.



## 4. 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 Ti10L cabinets to be used are set to Line source.



### Tools required

Torque wrench with Torx nut #T25.

#### 1. Prepare the first cabinet

To attach the Flying bar to the first cabinet, remove the cabinet's Splay link on the rear rigging strand. Proceed as follows:

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



- Remove the circlip of the Splay link's fixing bolt.



- Remove the fixing bolt and take out the Splay link.

#### 2. Attach the Flying bar to the first cabinet

- Attach the Flying bar to the rear rigging strand as shown in the picture opposite.



- Insert the fixing bolt together with the steel wire of the first Locking pin assembly.



- Attach the second Locking pin assembly.



- Attach the circlip to the fixing bolt.



### **WARNING !**

#### **Safety-relevant item**

- Recheck your work and ensure the circlip is securely fitted.



- Slide out the Front hooks on both sides of the cabinet into the track of the front bar of the Flying bar.



- Insert the supplied Torx lens head screws M5 x 25 on both sides.



- Tighten the screws to a torque of 3 Nm.

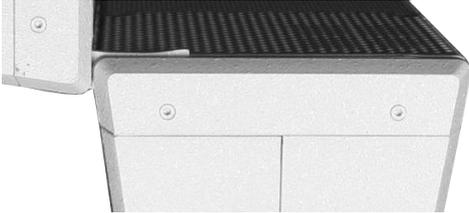
### **3. Suspend the current assembly**

- Suspend the current assembly according to your chosen type of suspension to allow further cabinets to be added. (Refer to the previous section 3. Suspension of the Flying bar/array on page 4)



#### 4. Add further Ti10L cabinets

- Lift the Flying bar to a suitable working height to add the next cabinet.
- Preselect the desired splay angle on the upper cabinet.



- Slide out the Front links (hooks) and fold out the Splay link.
- Release the two Locking pins at the rear rigging strand and fold out the Splay link.
- Keep the cabinet at an angle of 90° to the upper cabinet.
- Insert the Front hooks into the front rigging of the upper cabinet until the hooks are completely inserted.



- Slowly lower the cabinet and make sure the hooks rest in the bolts of the upper cabinet.
- Lift the back of the cabinet.



- Hook the Splay link over the preset Locking pin of the upper cabinet.
- Insert the second Locking pin (safety pin) to secure the Splay link of the cabinet.

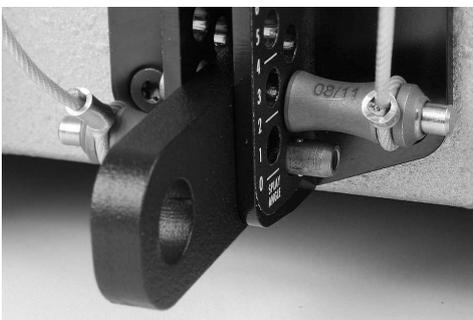
To add further cabinets proceed in the same manner until the assembly is completed.

#### 5. Attach the Pullback anchor device to the bottom cabinet

Depending on the type of suspension and aiming of the array, the additional Pullback device must be attached to the rear rigging strand of the lowest cabinet.

- Insert the Pullback anchor device into the track of the rear rigging strand.
- Insert the two remaining Locking pins into the rear hole grid of the rigging strand using the 0° and 2° holes.

**Note:** If you do not use the Pullback anchor device, the two Locking pins should be stored in two of the remaining holes on the rear rigging strand.



## **5. Maintenance and care**

As the Z5374 Ti Flying bar is intended for fixed installations only, no further maintenance or care is required.

However we recommend you to carry out regular inspections according to your national regulations and the valid "Rules for the Prevention of Accidents" (RPA).

## **6. 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.

## 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 Ti Flying bar, Z5374**

To be used as described in this manual.

**National standards and technical specifications applied:**

DIN EN ISO 12100, DIN EN 1050, BGV C1

Backnang, 2009-05-19



(Frank Bothe, Managing Director)

