

## Safety instructions in case of flying the system

Before flying the system, it is mandatory to take into account the following safety instructions:

- Always carry out a visual and functional inspection of the various components before use. In case of doubt about the correct functioning and safety of the components, they must be removed from use immediately.
- The fly bar for AVIATOR 112 A (reference: FB 112), is designed to support up to a maximum of nine units AVIATOR 112 A, in cluster format (3 + 3 + 3). In no case should the aforementioned number of units be exceeded.
- The hanging of the units must be carried out by professionals with adequate knowledge of the components and hardware to be used. This process must be carried out by at least two people.
- It is the responsibility of the person or team installing the system to ensure that the suspension / fixing points are suitable for the intended use.
- The application of safety factors of 5:1 for enclosures and static parts is accepted in a standardized manner. For those elements subjected to fatigue due to friction and variations in the stresses to which they are subjected, the following safety factors must be met: 5:1 for steel cable slings, 4:1 for steel chain slings and 7:1 for polyester slings. This means that an element with a breaking stress of 1000 Kg can be subjected to a static working load of 200 Kg (safety factor 5:1) and a dynamic load of only 142 Kg (safety factor 7:1).
- When hanging a system, the working load must be less than the strength of each individual anchor point as well as each enclosure.
- When suspending elements from the ceiling or other structures, extreme caution must be taken by previously calculating their resistance. Sound systems should never be hung on structures that do not guarantee full safety guarantees.
- When hoists are in operation (when lifting the system), ensure that no one is directly under or near the load.
- It will be necessary to fix at different points those systems that are subject to gusts of wind, to avoid their swaying. In no case is it recommended to fly systems that are subject to strong gusts of wind.

- No risk should be accepted in terms of public safety. It is the responsibility of the person or team of people carrying out the assembly to provide themselves with personal safety elements, such as helmet, gloves, safety footwear, etc., to carry out this work. As well as the correct signage of the space in which work is being done.
- All accessories used to fly a Pro DG Systems sound system not provided by Pro DG Systems are the responsibility of the user(s).

**In no case will Pro DG Systems be responsible for damages caused by incorrect use of the flying system by the user or users, whether physical damage to people or damage to the product or the attached facilities. As well as for failure to comply with the previously indicated safety instructions.**

## Flight hardware components

At Pro DG Systems we know the importance for the professional of installing the different systems in a simple, fast and safe way. AVIATOR 112 A flight system has been designed to guarantee these purposes. The different components are detailed below:

### FB 112

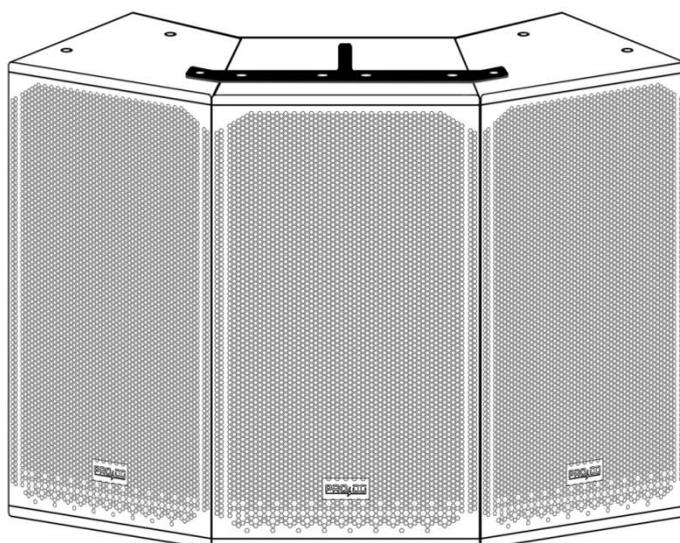
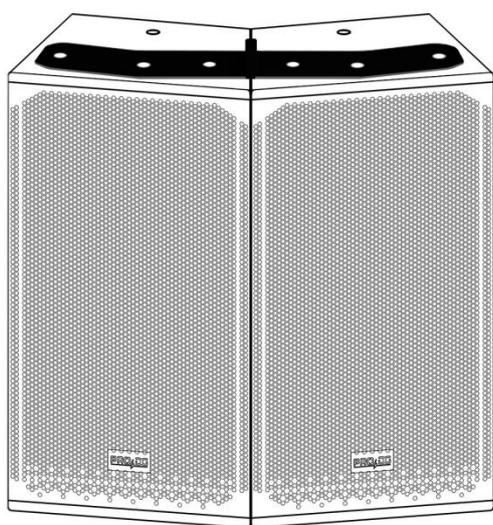
Made of high-strength steel with oven-dried black electrostatic powder paint finish.

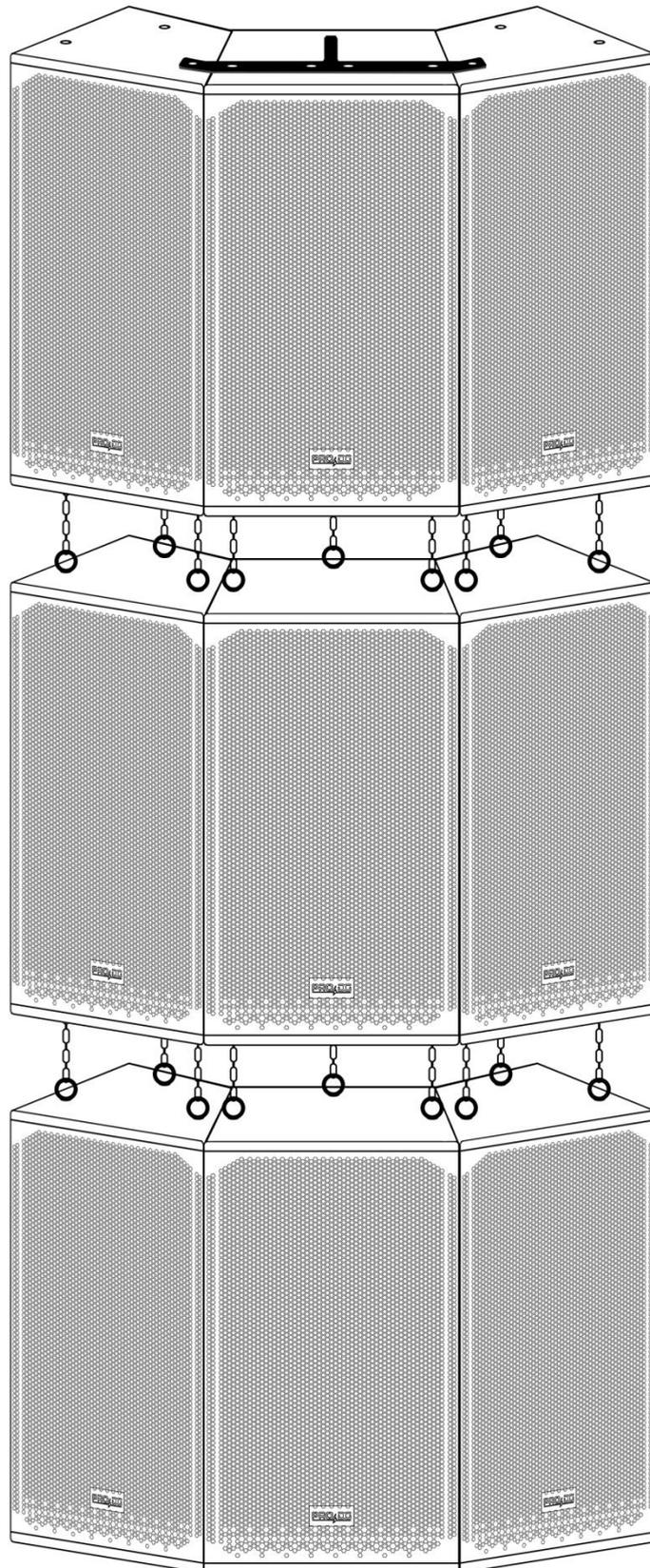
It allows the raise up of a maximum of nine units AVIATOR 112 A (3 + 3 + 3), in cluster format.



### Lower hardware link

They allow the lower part of the AVIATOR 112 A units to be fixed in order to be used in cluster format.





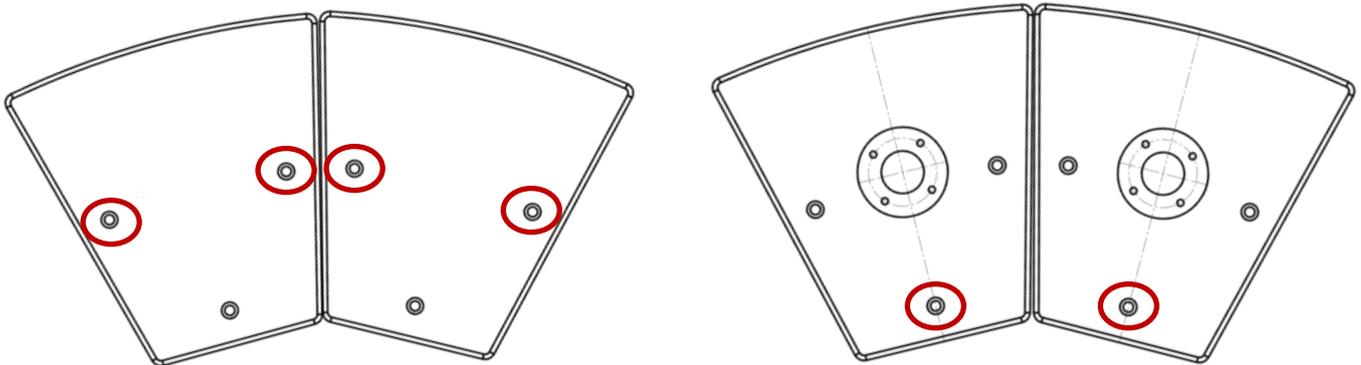
**Note:** the specifications of these components may be changed without prior notice. To be aware of the latest modifications, please consult Pro DG Systems website periodically.

## How to fly the system up

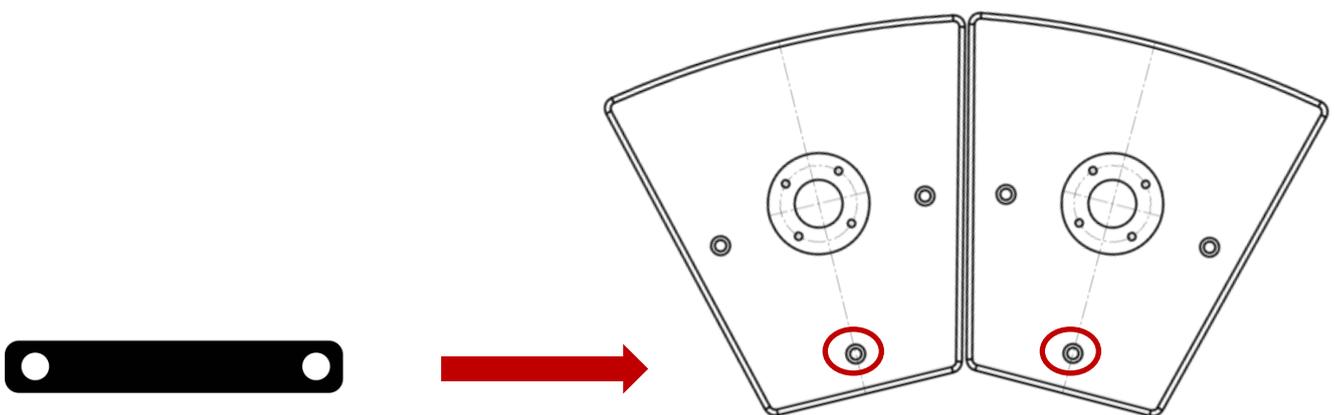
**Important:** before flying the system, carefully read the subsection “Safety instructions”, located in the “Flight hardware” section (pages 33 - 34).

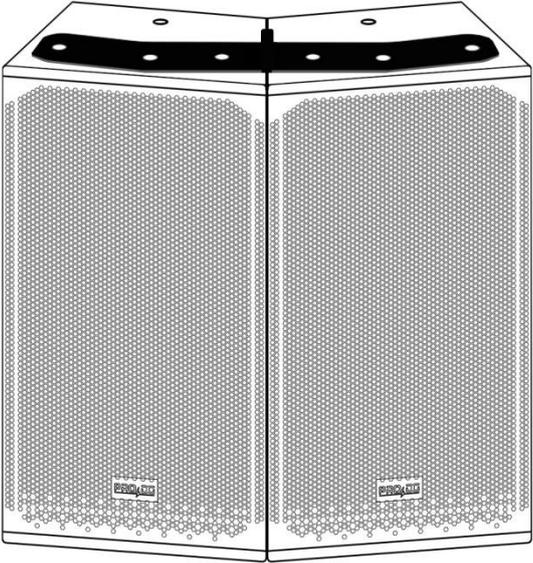
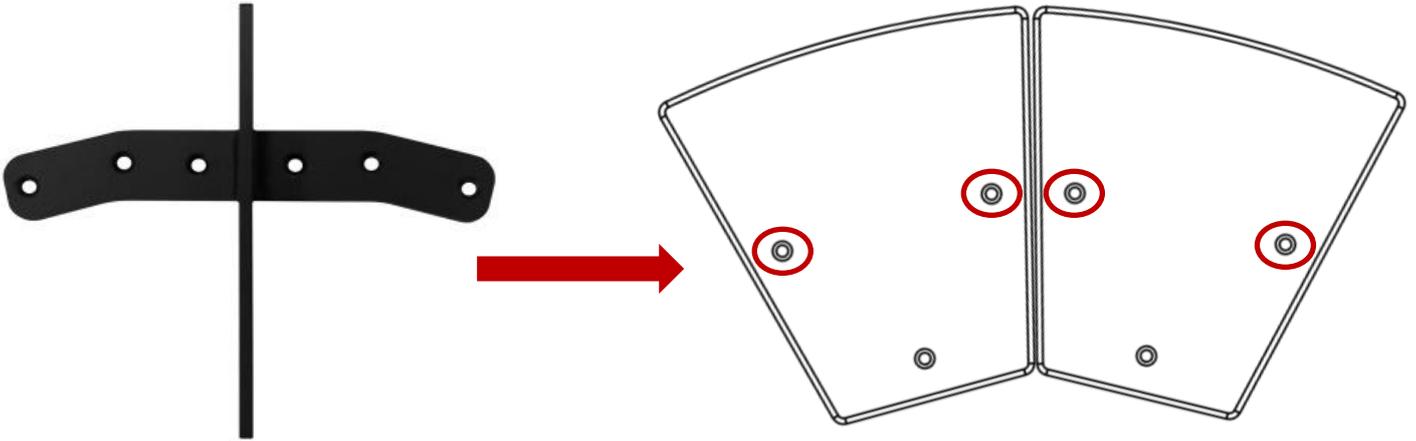
**In case of using two units in cluster format:**

**1** Remove the screws located at the top and bottom, indicated below:

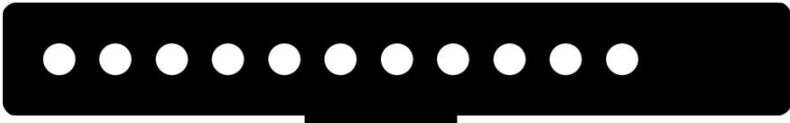


**2** Screw the lower hardware link and the fly bar into the indicated points:



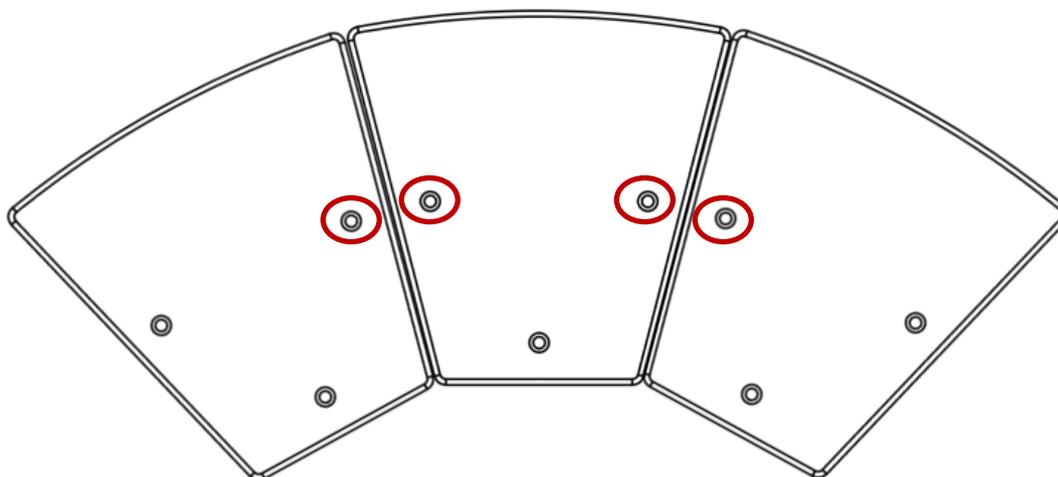


**3** Install the shackle to the fly bar to raise the assembly. The fly bar 112 has different accommodations to provide angulation to the assembly, depending on where the shackle is fixed to the fly bar.



**In case of using three units in cluster format:**

You will only have to remove the screws indicated at the top:



The rest of the steps to follow are the same as those described above, when using two units in cluster format.

You can fly up to nine units in cluster format (3 + 3 + 3), by fixing bolts at the rigging points (M8) and using chains or slings.

