

Language EN

### **Product Details**

Title of flying bracket: Banana/Big-Banana

Item number: 1603 / 1611

Maximum payload: 30 kg

Included mounting material: 2 Pieces Adjustable clamping lever GN 300-63-M10-25-SW

## Manufacturer Information

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## **General Safety References**



Assembly accessories of PL-Audio loudspeaker systems may be used exclusively considering the assembly instruction and in accordance with the BGV C1 regulations. In order to keep the safety criteria it will be expressly pointed out that an overload can be caused in the event of non-observance of the assembly instruction, changes of any kind of the accessories as well as installing the accessories to systems of other manufacturers. All components may be connected only in the prescribed way and used in such a way.

# **General Assembling Instructions**



For attachment at trusses, ceilings, walls etc. fixing material with sufficient ratings is to be used (DIN 18800). All such mountings are to be done by an experienced person. For all screw connections the given maximum ratings for the torques are to be kept (DIN 898).

## Safeguards



Loudspeaker systems are to be secured within the range of a stage or studios against tilting or falling down according to GUV 6.15 (BGV C1). This must happen with help of steel cables "(Safeties)" and/or chains, which are dimensioned for this working-load. A use of plastic-encased wire ropes is not permissible expressly. The safety devices specified in the regulations as well as the maximum head of 20cm are to be kept. Flown loudspeakers must be secured always against falling down by an additional, independent suspension point. This happens e.g. with a sufficiently dimensioned steel cable "(Safety)".

# Safety Factors



Accessories for the attachment of loudspeaker enclosures and PA systems are safety-relevant parts, which can endanger lives and health of humans during failure. Therefore the following guidelines were written, whose safety factors are to be kept. These are very highly put on due to wear, continuous stress etc. that also after use for many years still further safe handling can be ensured. Unfortunately many regulations in the reference to safety factors cannot be assigned always clearly and are often handled country-specifically.

Various standards specify the safety factors:

Factors according to BGV C1:	Safety Factor
Chains, ropes, shackles, eye bolts, belts, hooks	12
Accessories and their connection elements in mobile use	10
Accessories and their connection elements for fixed installation	5

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The maximum working load of manufacturers of commercial lifting and rigging hardware show usually other safety factors than demanded in the stage and studio areas.

Table according to DIN 292-2:	Safety Factor
Wire ropes	5
Chains from welded links	4
Textile fiber belts	7
Metal parts	4

### Inspection & Maintenance



For safety-relevant reasons a regular inspection of the accessories is inevitable. Prior to each use inspect the loudspeaker enclosures for any wear, deformation, notches, cracks and corrosion. Replace any damaged accessories immediately. In many states the regular inspection of attachment and accessories is prescribed. It is advisable to accomplish an annual inspection according to BGV C1 every 4 years by experienced technical personnel and additionally of a certified expert. In this connection leading of a test book is important, in which all accessories with their data and the recurring inspection are registered and are thus available at any time for potential controls.

## Mounting Instructions

The flying bracket with item number

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is designed for mounting following loudspeaker(s):

# Banana/Big-Banana

Thread size of fastener: M20 - Strength category minimum 5.8
Thread size of clamping element: M10 - Strength category minimum 5.8

- Mount suitable fastener according DIN 15560-24:1996-12 or DIN 15560-1987-01 by sticking through the centered hole of the cross bar between both tabs of the flying bracket. For that assemble the defined bolt, thread nut and lock washer to the flying bracket. The lock washer has to be placed between thread nut and flying bracket.
- 2) Tighthen bolt an thread nut according manufacturer information.
- 3) Push flying bracket from the reverse side of the loudspeaker and mount it to the loudspreaker by using the included clamping bolts.
- 4) The flying bracket has to be secured additionally against tilting or falling down when using it. Thus, direct the load supporting device or sling through the top of the loudspeaker and the cross bar of the flying bracket and ensure, that the maximum falling depth does not exceed 20cm.

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