



USER MANUAL

AX800A

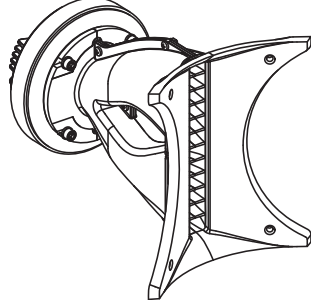
active vertical array loudspeaker

KEY FEATURES

- Compact lightweight moulded enclosure
- WTW driver configuration
- Dual 8" woofers, 1.4" HF compression driver
- High quality, low distortion, compression driver design
- Acoustic filter control for stable 100° horizontal coverage
- Linear phase, constant power crossover design
- Transmission Line back loading for clean mid-bass reproduction
- Natural sound Transmission Line HF projection wave-forming device
- 96KHz / 40 bit floating point CORE processing with PRONET remote control
- Array optimized presets
- Class D amplifier module with SMPS
- Easy-to-use rigging system

INTRODUCTION

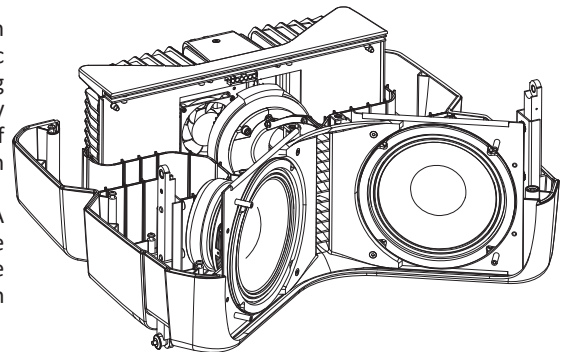
The AX800A has been developed with total optimization of the speaker components in mind – from the lightweight woofer cone materials through to the titanium diaphragm used in the high frequency compression driver. They've been developed in close cooperation with our supply partners, who act in many ways as an extension of our R&D acoustics team.



Housing two eight-inch low frequency drivers, which are transmission line back-loaded for a significant reduction in low range frequencies at the rear of the speaker, the AX800A delivers natural cardioid behaviour and therefore clean mid-bass reproduction. This is especially important in preventing the "boxy" mid-bass sound commonly obtained from regular bass-reflex enclosures, or the build up of excessive low-mid frequencies behind an array and on stage that can be annoying for performers.

Completing the driver complement is a 1.4-inch titanium diaphragm compression driver loaded by an acoustic transmission line waveguide providing natural sounding high frequencies. The components are arranged in a very compact WTW driver configuration, which lends itself to correct line array behaviour, providing wide and even horizontal coverage of any venue or audience space.

The AX800A is processed by 40bit, 96kHz floating point CORE DSP and powered by DA SERIES class D amplifier modules, with audio quality that is comparable to some of the best analogue Class A-B designs. The output power is optimized specifically to the drive units, sharing 900 watts between both woofers and delivering 300 watts to the high frequency band.



TECHNICAL SPECIFICATION

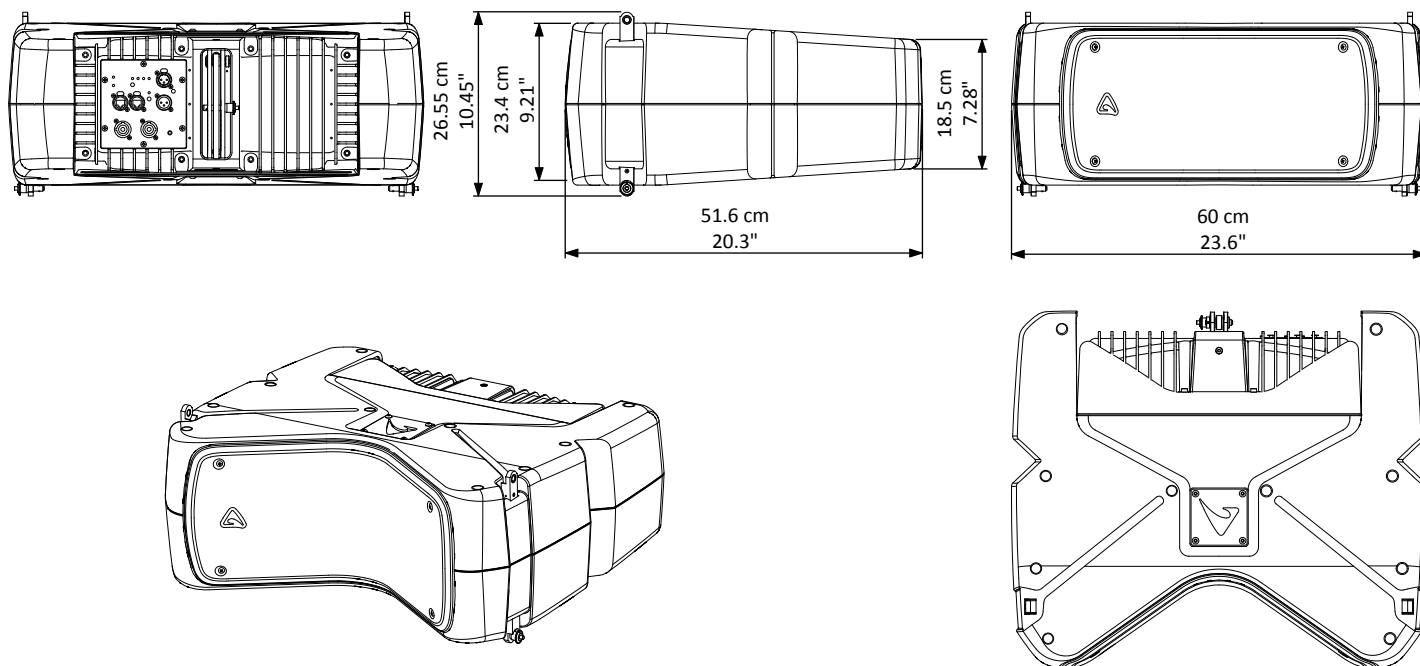
SYSTEM

| | | | |
|------------------------------------|--|-------------------------------------|---|
| | Line Array Element | Remote Controls | PRONET control software |
| | Short Transmission Line LF Back Loading | Network protocol | CANBUS |
| System's Acoustic Principle | Acoustic Transmission Line HF Waveguide | Amplifier Type | Class D amplifier with SMPS |
| Frequency Response (±3dB) | 85 Hz – 16.8kHz (Processed) | Output Power | 900W + 300W |
| Horizontal/Vertical Coverage Angle | 100° x 10° (-6dB) | Mains Voltage Range (Vac) | 230 V~ ±10% or 115 V~ ±10% 50/60 Hz |
| Maximum Peak SPL @ 1m | 132 dB | Consumption* | 575 W (nominal) 1200 W (max) |
| TRANSDUCERS | | IN / OUT Connectors | Neutrik XLR-M / XLR-F |
| LF | Two 8"(200mm), 2" (38mm) voice coil, 8Ω each, paralleled | IN / OUT Network Connectors | ETHERCON® (NE8FAV) |
| HF | One 1.4" driver, 2.5" (64mm) edgewound voice coil, titanium diaphragm, 8Ω | Mains Connector | PowerCon® (NAC3MPA) |
| ELECTRICAL | | Mains Link Connector | PowerCon® (NAC3MPB) |
| Input Impedance | 20 kΩ balanced, 10 kΩ unbalanced | Cooling | Variable speed DC fan |
| Input Sensitivity | +4 dBu / 1.25 V | ENCLOSURE & CONSTRUCTION | |
| Signal Processing | CORE processing, 96kHz / 40bit floating point SHARC DSP, 24 bit AD/DA converters | Dimensions (W x H x D) | 600mm (23.6") x 265.5mm (10.5") x 516mm (20.3") |
| Direct access Controls | 4 Presets (Standard/Long Throw/Down Fill-Single Box, User), Network Termination, GND Link. | Enclosure Material | Polypropylene |
| | | Rigging system | Aluminium Fast Link structure |
| | | Front Suspension | High Strength Steel with ¼ Fast Pin |
| | | Back Suspension | 25 Kg (55.1 lbs) |
| | | Net Weight | |

* Nominal consumption is measured with pink noise with a crest factor of 12 dB, this can be considered a standard music program.



MECHANICAL DRAWING



OPTIONAL ACCESSORIES

| | |
|------------------------|--|
| AXCASE08 | Carrying Case for 4 box unit |
| NAC3FCA | Neutrik Powercon® BLUE PLUG |
| NAC3FCB | Neutrik Powercon® WHITE PLUG |
| NE8MCB | Neutrik Ethercon PLUG |
| NC3MXXBAG | Neutrik XLR-M |
| NC3FXXBAG | Neutrik XLR-F |
| SW1800A | 2X18" Active Subwoofer |
| USB2CAN | PRONET network converter |
| USB2CAND | Dual output PRONET network converter |
| CAT5SLU01/05/10 | LAN5S - Cat5e - RJ45 plugs and NE8MC1 connectors. 1/5/10 m Length |
| AR100LUxx | Hybrid cable 1x Cat6e - 1x Audio with NEUTRIK connectors 0.7/1.5/2.5/5/10/15/20 m Length |
| AR200LUxx | Hybrid cable 1x Cat6e - 2x Audio with NEUTRIK connectors 20/30/40/60/80 m Length |
| AVCAT5PROxx | Cat5e on cable drum, RJ45 plugs and NEUTRIK connectors 30/50/75 m Length |
| KPTAX800 | Flying bar for 4 AX800A array loudspeakers |
| KPTAX800L | Flying bar for 12 AX800A array loudspeakers |
| AXFEETKIT | Kit of 6pcs BOARDACF01 M10 foot for stacked installation |
| KPAX8 | Pole Adaptor for 2 AX800 |
| DHSS10M20 | Adjustable Sub-Speaker ø35mm spacer with M20 screw |
| RAINCOV800 | Rain cover for input sockets |

see <http://www.axiomproaudio.com/> for detailed description and other available accessories.

SPARE PARTS

| | |
|-------------------|---|
| PLG716 | Straight Shackle 16 mm for Fly bar |
| 94SPI816 | 16mm Locking Pin (AX800A front) |
| 94SPI826 | 26mm Locking Pin (AX800A rear) |
| 94SPI840 | 40mm Locking Pin (AX800A with KPTAX800L) |
| 91AMDAX800 | Power amplifier module with mechanical assembly |
| 91DSPKT10 | Input, Control and DSP PCBA |
| 98AXM8WZ8 | 8" woofer - 2" VC |
| 98DRI2000 | 1.4" - 2.4" VC compression driver |
| 98MBN2000 | titanium diaphragm for 98DRI2000 HF driver |

contact the technical support on <http://www.axiomproaudio.com/> for request or detailed spare part list.



I/O AND CONTROL OPERATIONS

MAINS IN - Powercon® NAC3FCA power input connector (blue). To switch the amplifier on, insert the Powercon® connector and turn it clockwise into the ON position. To switch the amplifier off, pull back the switch on the connector and turn it counter-clockwise into the POWER OFF position.

MAINS OUT - Powercon® NAC3FCB power output connector (grey). This is connected in parallel with the MAINS ~ / IN. The maximum load applicable depends on the mains voltage. With 230V~ we suggest to link a maximum of 5 AX800A loudspeakers, with 120V~ we suggest to link a maximum of 3 AX800A loudspeakers.

WARNING! In the case of product failure or fuse replacement, disconnect the unit completely from the mains power. The power cable must only be connected to a socket corresponding to the specifications indicated on the amplifier unit. The power supply must be protected by a suitably rated thermo-magnetic breaker. Preferably use a suitable switch to power on the whole audio system leaving the Powercon® always connected to each speaker, this simple trick extend the life of the Powercon® connectors.

INPUT - Audio signal input with locking XLR connector. It has a fully electronically balanced circuitry including AD conversion for the best S/N ratio and input headroom.

LINK - A direct connection from the input connector to link other speakers with same audio signal.

ON - This LED indicates power on status.

SIGN/LIMIT - This LED lights in green to indicate the presence of the signal and lights in red when an internal limiter reduces the input level.

GND LIFT - This switch lift the ground of the balanced audio inputs from the earth-ground of the amplifier module.

PRESET BUTTON - This button has two function:

1) Pressing it while powering on the unit:

ID ASSIGN the internal DSP assigns a new ID to the unit for the PRONET remote control operation. Each loudspeaker must have a unique ID to be visible in the PRONET network. When you assign a new ID, all the other loudspeakers with the ID already assigned must be ON and connected to the network.

2) Pressing it with the unit ON you can select the DSP PRESET. The selected PRESET is indicated by the corresponding LED:

STANDARD This PRESET is suitable for vertical flown arrays that may range from 4 to 8 boxes or for the centre region of a bigger flown array. It can be used also for stacked arrays.

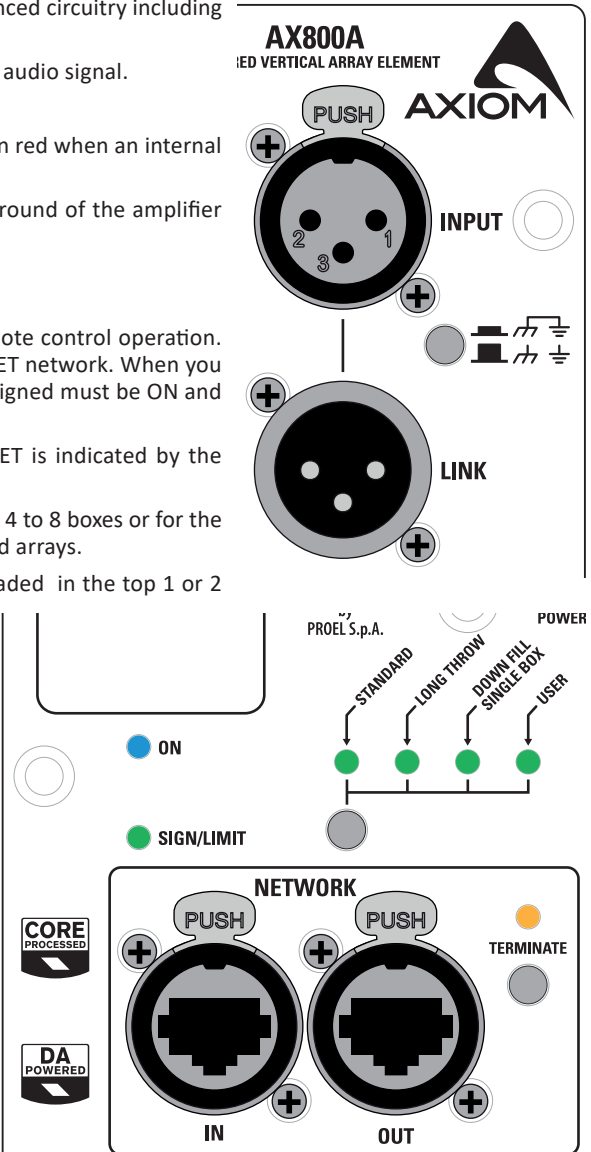
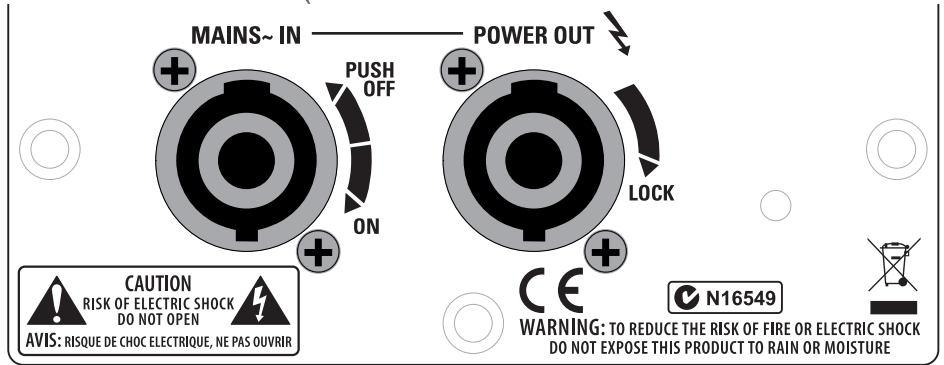
LONG THROW This PRESET can be used in arrays bigger than 6 or 8 boxes and loaded in the top 1 or 2 boxes in order to obtain a more even distribution of the sound pressure, especially if they point very far away or to the upper deck of a large theatre.

DOWN FILL / SINGLE BOX This PRESET, which features a much smoother high frequency response, can be loaded in the bottom boxes (usually 1 or 2 boxes) of a large flown array, in order to reach conveniently the audience close to the stage. This preset could be very useful also when the box is used just on its own as a Front Fill element in the front of very large stages.

USER This LED lights when the USER PRESET is loaded. This preset corresponds to USER MEMORY no. 1 of the DSP and, as a factory setting, it's the same to STANDARD. If you want to modify it, you have to connect the unit to a PC, edit the parameters with PRONET software and save the PRESET into USER MEMORY no. 1. *Note: see also the PRONET example further on this manual.*

NETWORK IN/OUT - These are a standard RJ45 CAT5 connectors (with optional NEUTRIK NE8MC RJ45 cable connector carrier), used for PRONET network transmission of remote control data over long distance or multiple unit applications.

TERMINATE - In a PRONET network the last loudspeaker device must be terminated (with an inner load resistance) especially in a long run cabling: press this switch if you want to terminate the network on this unit.





POWER AMPLIFIERS

Powering the loudspeaker drivers is a well-proven DA series Class D amplifier module used in many of the Axiom powered loudspeaker products, with audio quality that is comparable to some of the best analogue Class A-B designs, but with the benefit of lower weight and better than 90% efficiency. The output power is optimised specifically to the drive units, sharing 900 watts between both woofers and delivering 200 watts to the high frequency band. The DA series amplifier delivers superior definition at all frequencies, and very high dynamic range with low distortion even at maximum level, so your sound remains clean and dynamic even when loud.

SIGNAL PROCESSING

The system processing is based on the CORE DSP platform, which has been designed by the PROEL R&D Laboratories using one of the most advanced SHARC DSP for audio application. It features 40bit, 96kHz floating point resolution and high quality 24bit AD/DA converters, for a perfect signal integrity, a dynamic range in excess of 110dB and a superior sonic performance. Thanks to its massive processing power, the CORE platform is capable of providing the most sophisticated algorithms for speaker processing, together with remote control and networking capability. The PRONET control software, working on a solid and reliable CANBUS based network protocol, provides an intuitive interface for the remote control of the whole system, with the possibility of eqing, delaying, increasing the protections and monitoring the status of the amplifier.

PRONET

PRONET software has been developed in collaboration with sound engineers and sound designers, in order to offer an “easy-to-use” tool to setup and manage your audio system. With PRONET you can visualize signal levels, monitor internal status and edit all the parameters of each connected device.

Download the PRONET app from the AXIOM website at <http://www.axiomproaudio.com/> clicking on downloads section of the product.

The AXIOM active loudspeaker devices can be connected in a network and controlled by the PRONET software. For the network connection the PROEL USB2CAN or USB2CAND converter optional accessory is needed. The first time you connect a device with the USB2CAN converter, Windows O.S. will ask you to install the driver files, which you can find in the Driver folder within the Pronet application folder (by default is C:\Program Files\Proel\Pronet\Driver, or if you changed it <your path>\Driver). Please refer also to “Installation” and “Drivers” paragraphs in the Pronet documentation. The PRONET NETWORK is based on a robust, reliable and fast communication protocol called CANBUS. The devices in a PRONET NETWORK are connected together with a “linear bus topology”. The USB2CAN converter must be connected to the network input of the first device, the network output of the first device is connected to the input of the second and so on. For the network connections simple RJ45 cat.5 or cat.6 ethernet cables can be used (please don't confuse a ethernet network with a PRONET network these are completely different and must be fully separated also both use the same kind of cable).

The beginning and the end of a PRONET NETWORK must be terminated. One side is terminated by the USB2CAN converter, the other side must be terminated pressing the TERMINATE switch on the last device. All devices between these two points must have the TERMINATE switch lifted.

Assign the ID number

To work properly in a PRONET network each connected device must have a unique identifier number, called ID. By default the USB2CAN PC controller has ID=0 and there can be only one PC controller. Every other device connected must have its own unique ID equal or greater than 1: in the network cannot exist two devices with the same ID.

An ID number is assigned automatically to each device when they are turned on for the first time connected to a network.

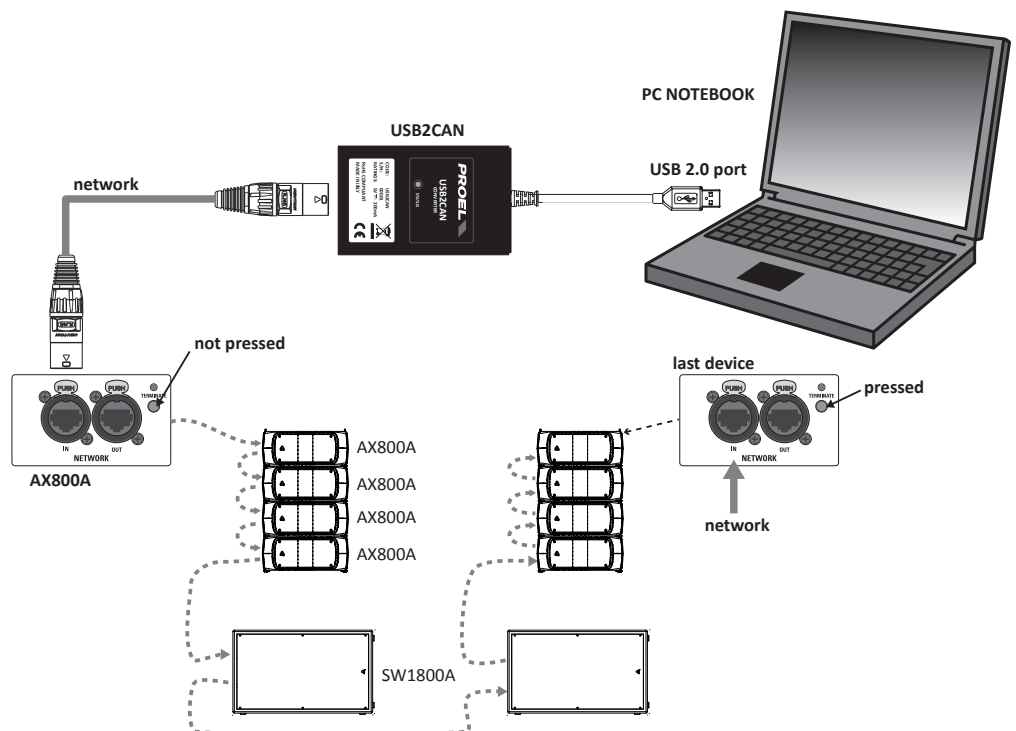
In order to correctly assign a new available ID to each device for working properly in a Pronet network, follow these instructions:

1. Switch off all the devices.
2. Connect them correctly to the network cables.
3. “TERMINATE” the latest device in the network connection.
4. Switch on the first device keep pressed “PRESET” button on the control panel.
5. Leaving the previous device switched on, repeat the previous operation on the next device, until the latest device is turned on.

The “Assign ID” procedure for a device makes the internal network controller to perform two operations: reset the current ID; search the first free ID in the network, starting from ID=1. If no other devices are connected (and powered on), the controller assume ID=1, that is the first free ID, otherwise it searches the next one left free.

These operations ensure that every device has it's own unique ID, if you need to add a new device to the network you simply repeat the operation

EXAMPLE OF PRONET NETWORK WITH AX800A AND SW1800A





of step 4. Every device maintains its ID also when it is turned-off, because the identifier is stored in the internal memory and it is cleared only by another "Assign ID" step, as explained above. This means that if your network is made always of the same devices the assigning ID procedure must be executed only the first time the system is turned on.

For more detailed instruction about PRONET see the PRONET USER'S MANUAL included with the software.

Useful tools to set up properly a vertical array system

This is a list of tools that can be very useful to set properly a vertical array system.



CABLE TESTER

It is a good practice to check all cables before each installation, because even one faulty cable can compromise heavily the system performance.



INCLINOMETER WITH LEVER

This tool can be used to verify the vertical array angle. It can be used at the top or at the bottom of the array. In this case you have to sum all splay angles, so the maximum precision is needed for aiming the vertical array, particularly for long throw applications.



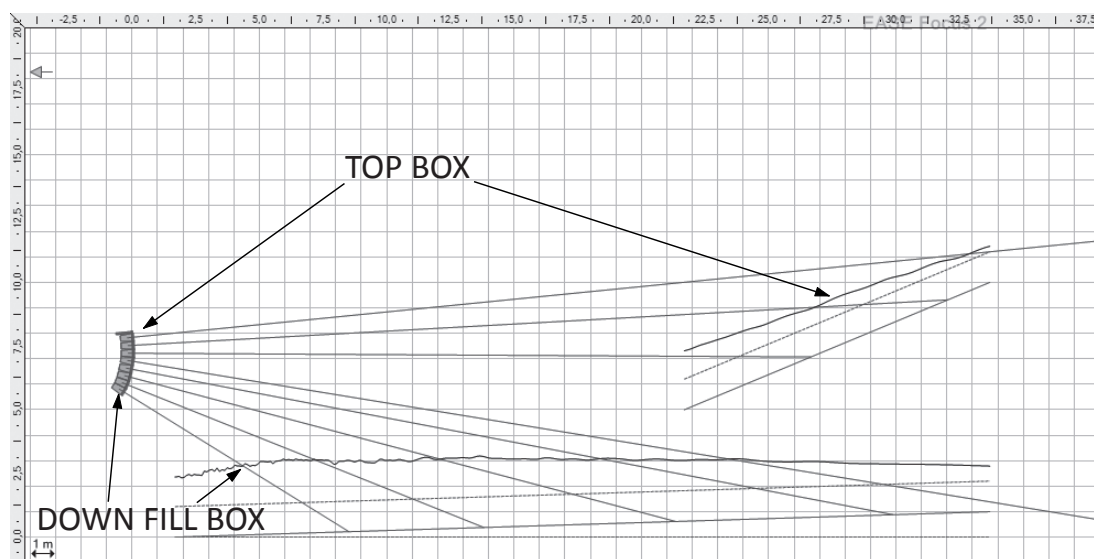
LASER DISTANCE METER

This instrument can be useful to measure the height of the vertical array and to know the distance between FOH-Subs and FOH-Array for setting the delay time.

Smaart

SMAART or similar acoustic measurement system

These are useful to measure delays, phase and response of the system.



EXAMPLE OF INSTALLATION IN A THEATRE WITH BALCONY

Here you can see an example of the use of different PRESETS in an AX800A flow array installed in a big theatre with balcony. The TOP BOXES of the array are aiming at the balcony while the DOWN FILL box is aiming at the audience close to the stage.

TOP BOXES: the power level at the end of the balcony is lower, as well as the high frequency level.

DOWN FILL BOXES: the power level in the proximity of the stage is higher, as well as the high frequency level.

PRESET USING EXAMPLE

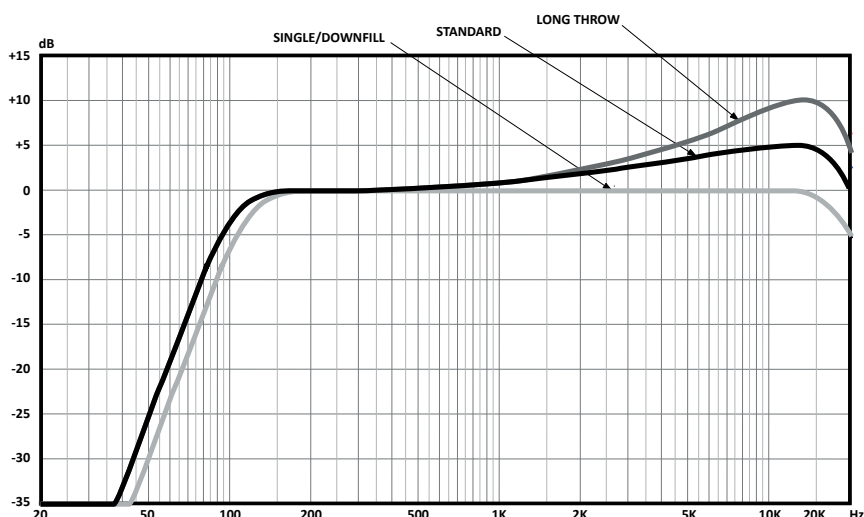
In order to optimize the array performances for this specific application, the PRESETS should be used in the following way.

Load the STANDARD preset in the central boxes.

Load the LONG THROW preset in the TOP 1 or 2 boxes, in order to compensate the loss of power level and high frequencies of the program sent the upper deck of the theatre.

Load the DOWN FILL / SINGLE BOX preset in the BOTTOM box in order to smooth the high frequency content of the program sent to the audience close to the stage.

AX800A - PRESET RESPONSE





PREDICTION: EASE Focus 3

To aim correctly a complete system we suggest to use always the Aiming Software - EASE Focus 3:

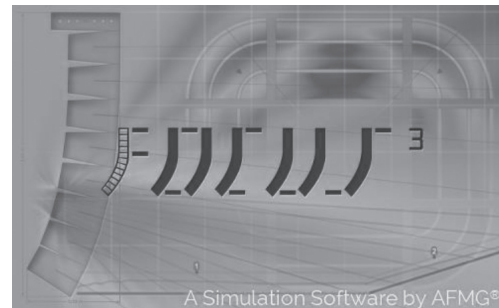
The EASE Focus 3 Aiming Software is a 3D Acoustic Modelling Software that serves for the configuration and modelling of Line Arrays and conventional speakers close to reality. It only considers the direct field, created by the complex addition of the sound contributions of the individual loudspeakers or array components.

The design of EASE Focus is targeted at the end user. It allows the easy and quick prediction of the array performance in a given venue. The scientific base of EASE Focus stems from EASE, the professional electro- and room acoustic simulation software developed by AFMG Technologies GmbH. It is based on the EASE GLL loudspeaker data file required for its use: **AXIOM_AX800A_v1_0**, please note that the version must be 1.0 or more. The GLL file contains the data that defines the Line Array with regard to its possible configurations as well as to its geometrical and acoustical properties.

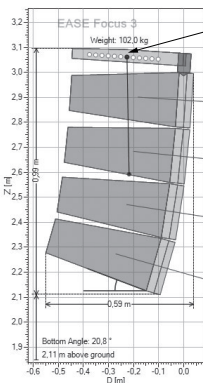
Download the EASE Focus 3 app from the AXIOM website at <http://www.axiomprouaudio.com/> clicking on downloads section of the product.

Use the menu option **Edit / Import System Definition File** to import the file **AXIOM_AX800A_v1_0** from the installation Data folder, the detailed instructions to use the program are located in the menu option **Help / User's Guide**.

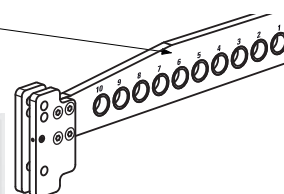
Note: Some windows system can require the **.NET Framework 4** that can be download from microsoft website at <http://www.microsoft.com/en-us/download/default.aspx>.



KPTAX800 FLOWN PINPOINT



SINGLE PINPOINT FOR STRAIGHT SHACKLE



WARNING! CAREFULLY READ THE FOLLOWING INSTRUCTIONS AND CONDITION OF USE:

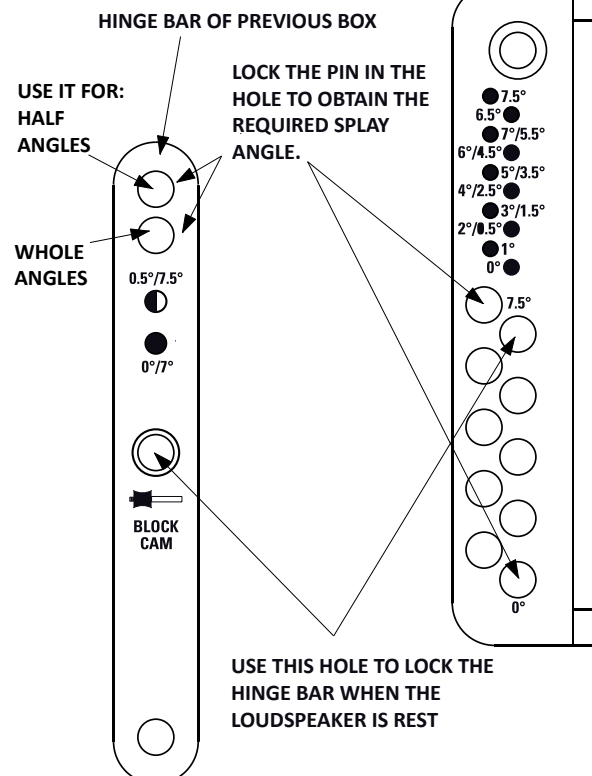
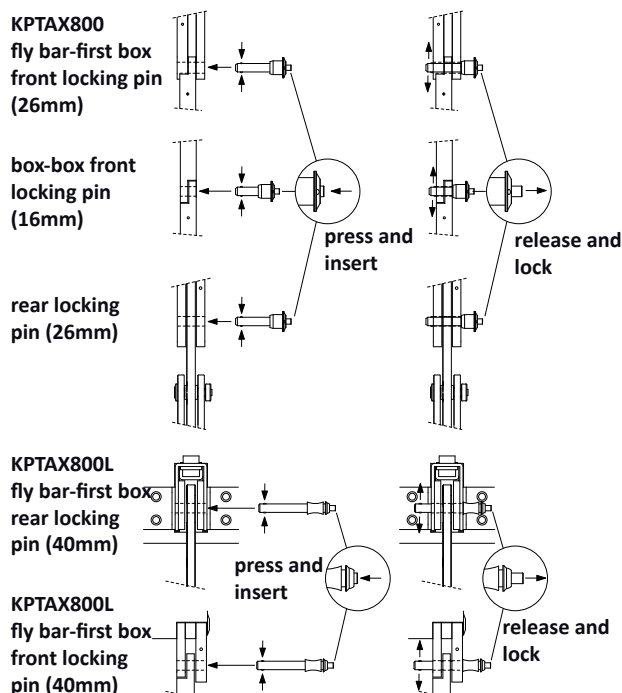
- This loudspeaker is designed exclusively for Professional audio applications. **The product must be installed by qualified personal only.**
- Proel strongly recommends that this loudspeaker cabinet be suspended taking into consideration all current National, Federal, State and Local regulations. Please contact the manufacturer for further information.
- Proel do not accept any liability for damage caused to third parties due to improper installation, lack of maintenance, tampering or improper use of this product, including disregard of acceptable and applicable safety standards.
- During assembly pay attention to the possible risk of crushing. Wear suitable protective clothing. Observe all instructions given on the rigging components and the loudspeaker cabinets. When chain hoists are in operation ensure that there is nobody directly underneath or in the vicinity of the load. Do not under any circumstances climb on the array.

Pin locking and splay angles set up

The figure below shows how to insert correctly the locking pin and how to set up the splay angle between loudspeakers.

LOUDSPEAKER SPLAY ANGLES SET UP

LOCKING PINS INSERTION



AIMING and SUSPENDING INSTRUCTIONS Fly Bar and accessories

The AX800A systems are built to allow the suspension of array with variable shape and dimensions. Thanks to a suspension mechanism designed to be functional, flexible and safe, each system must be suspended or stacked using the **KPTAX800** or **KPTAX800L** fly bar. The loudspeakers are linked together in a column using a series of couplers integrated in the frame of each enclosure. Each system is set up properly both acoustically and mechanically only using the aiming software.

Coupling system in the front does not require any adjustment: using two locking pins, each loudspeaker box is fixed to the previous. The slotted bar in the back is inserted in a U-shaped frame which features a series of numbered holes. Sliding the slotted bar in the U-shaped frame of the next loudspeaker and inserting a locking pin in one of the numbered holes, it is possible to adjust the relative play angle between two adjacent loudspeakers in the array column.

⚠ KPTAX800 fly bar maximum capacity is 200 Kg (441 lbs) with the 0° angle. It can support, with a safety factor of 10:1, up to:

- 4 AX800A
- KPTAX800 can NOT be used for stacked array.

⚠ KPTAX800L fly bar maximum capacity is 680 Kg (1500 lbs) with the 0° angle. It can support, with a safety factor of 10:1, up to:

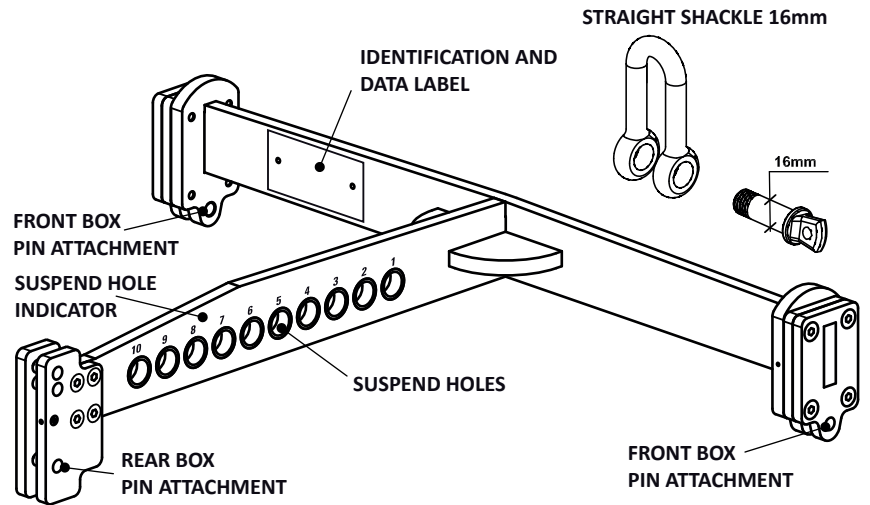
- 12 AX800A
- KPTAX800L can be used for stacked array for a maximum of 4 AX800A units.

NOTE: The figures illustrate the KPTAX800 and KPTAX800L usages, these are similar with the respective load capacity limitations.

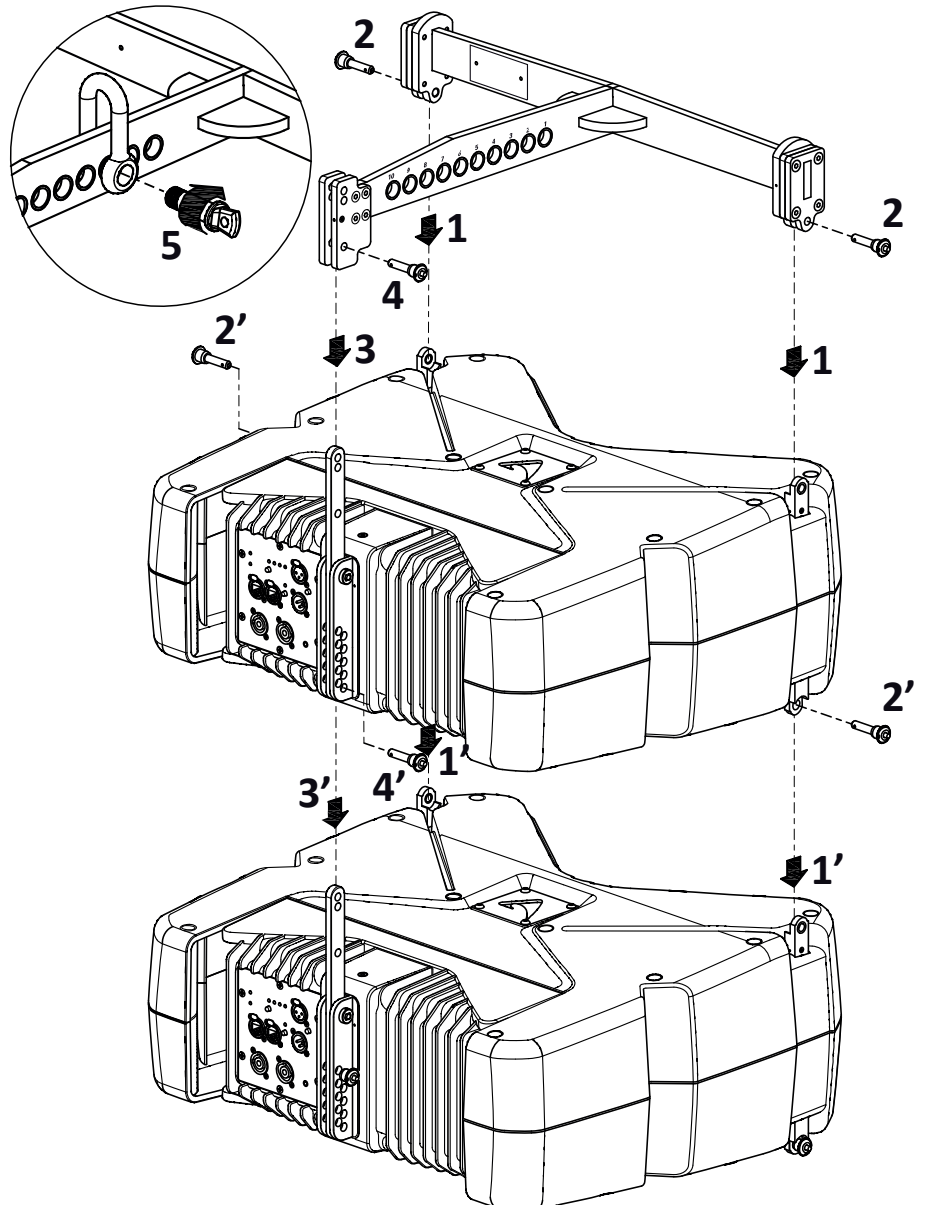
Follow the sequence in the figure for fixing the fly bar at the first box. Usually this is the first step before lifting up the system. Be careful to insert properly all the locking pins (1)(2) and (3)(4) then the shackle (5) in the right holes as specified by the aiming software.

When lifting the system always proceed gradually step by step, paying attention to secure the fly bar to the box (and the box to the other boxes) before pulling up the system: this makes easier to insert properly the locking pins. Also when the system is released down, unlock gradually the pins. During the lifting be very careful to not let the cables enter the space between one enclosure and the other, as their compression could cut them.

KPTAX800 FLY BAR AND ACCESSORIES

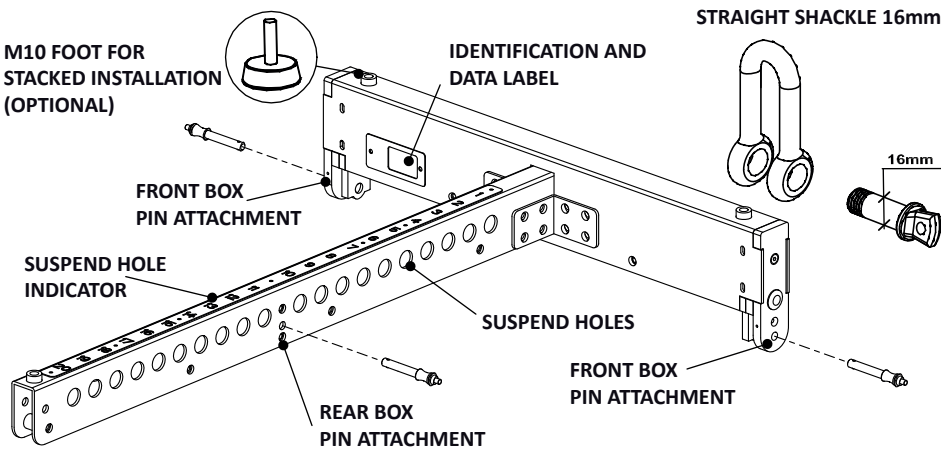


KPTAX800 FLY BAR ASSEMBLY SEQUENCE

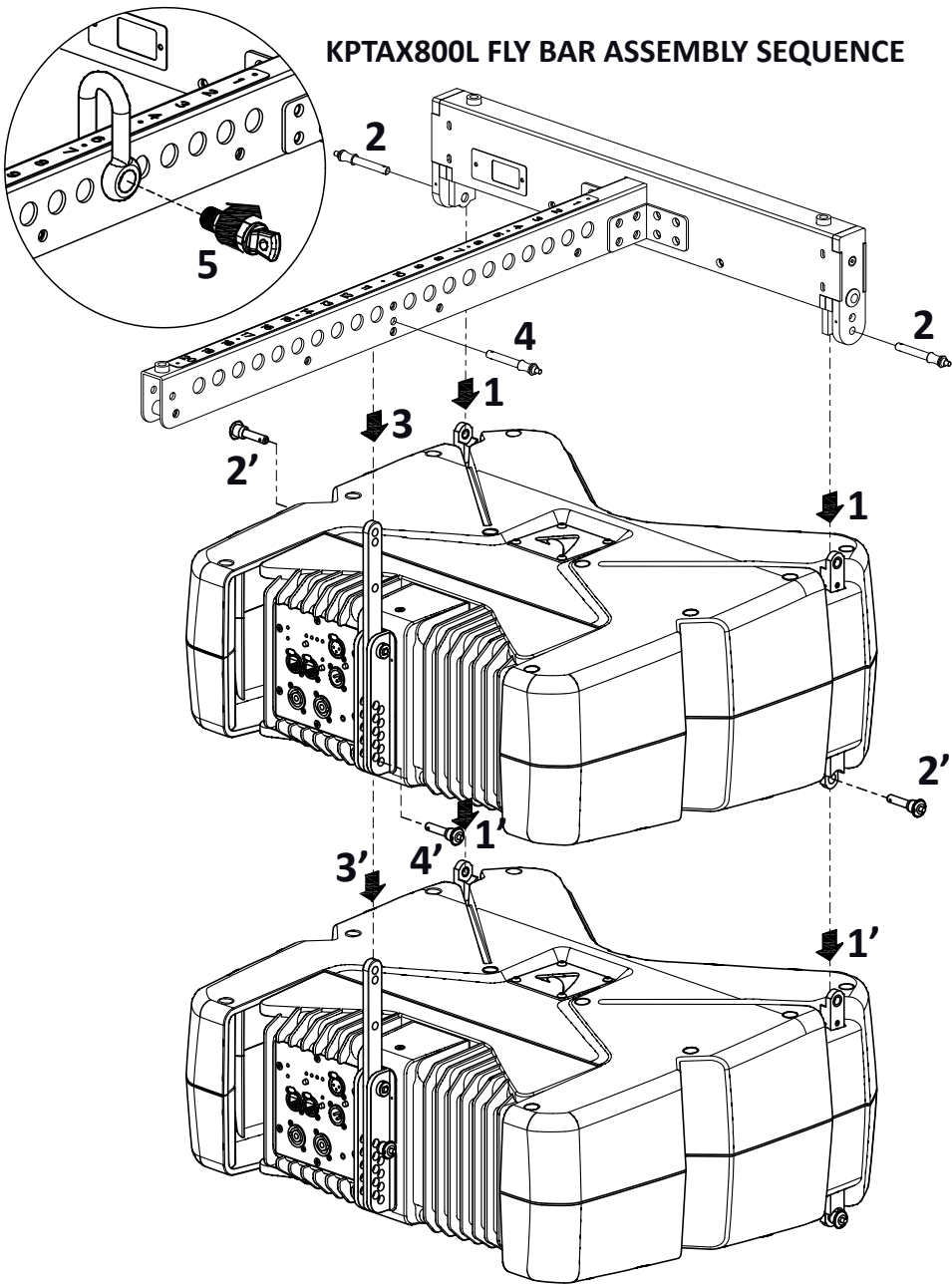




KPTAX800L FLY BAR AND ACCESSORIES



KPTAX800L FLY BAR ASSEMBLY SEQUENCE



AXIOM



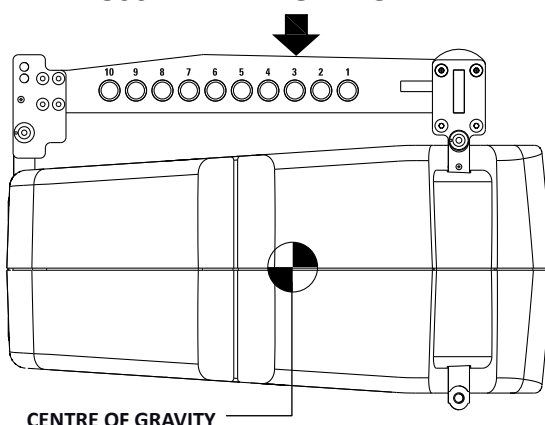
Fly bar suspension and angle setup (centre of gravity)

The figure at the top of this page shows where the normal centre of gravity is with one box or several boxes arranged in a line. Usually the boxes are arranged to make an arc for the best coverage of the audience, so the center of gravity moves backward. The aiming software suggests the ideal suspension pinpoint taking into account this behaviour: fix the straight shackle in this position.

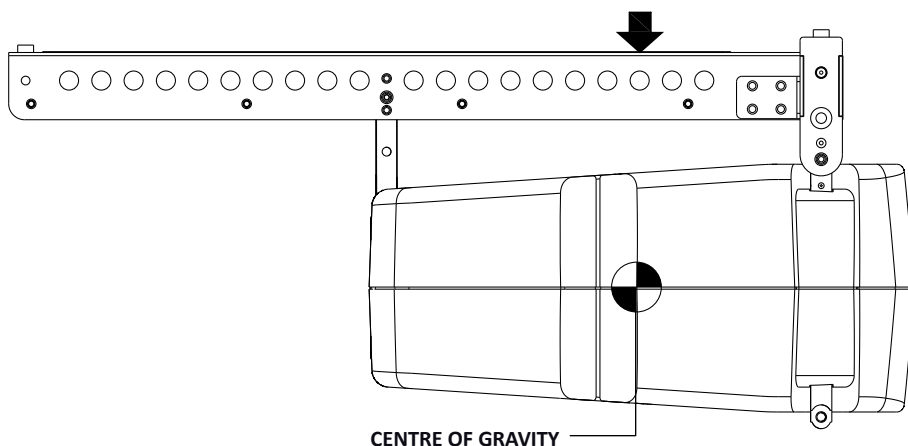
Note that the ideal aiming angle often doesn't correspond to the pinpoint: there is often a little difference between ideal aiming and real aiming and its value is the Delta angle: positive delta angle can be adjusted a little using two ropes, negative delta angle are self adjusted a little because the cables weigh on the back of the array. With some experience it's possible to consider preventively these required little adjustments.

During the flown set up you can connect the elements of the array to their cables. We suggest to discharge the weight of the cables from the flying pinpoint by tying them with a textile fibre rope, instead of letting them hang freely: in this way the position of the array will be much more similar to the simulation produced by the software.

KPTAX800 FLY BAR FOR FLOWN ARRAY



KPTAX800L FLY BAR FOR FLOWN ARRAY



Wind loads

When planning an open-air event it is essential to obtain current weather and wind information. When loudspeaker arrays are flown in an open-air environment, possible wind effects must be taken into account. Wind load produces additional dynamic forces acting on the rigging components and the suspension, which may lead to a dangerous situation. If according to the forecast wind forces higher than 5 bft (29-38 Km/h) are possible, the following actions have to be taken:

- The actual on-site wind speed has to be monitored permanently. Be aware that wind speed typically increases with height above ground.
- Suspension and securing points of the array should be designed to support double the static load in order to withstand any additional dynamic forces.



WARNING!

Flying loudspeakers overhead at wind forces higher than 6 bft (39-49 Km/h) is not recommended. If the wind force exceeds 7 bft (50-61 Km/h) there is a risk of mechanical damage to the components which may lead to a dangerous situation for persons in the vicinity of the flown array.

- **Stop the event and make sure that no person remains in the vicinity of the array.**
- **Lower and secure the array.**



Stacked System with KPTAX800L.



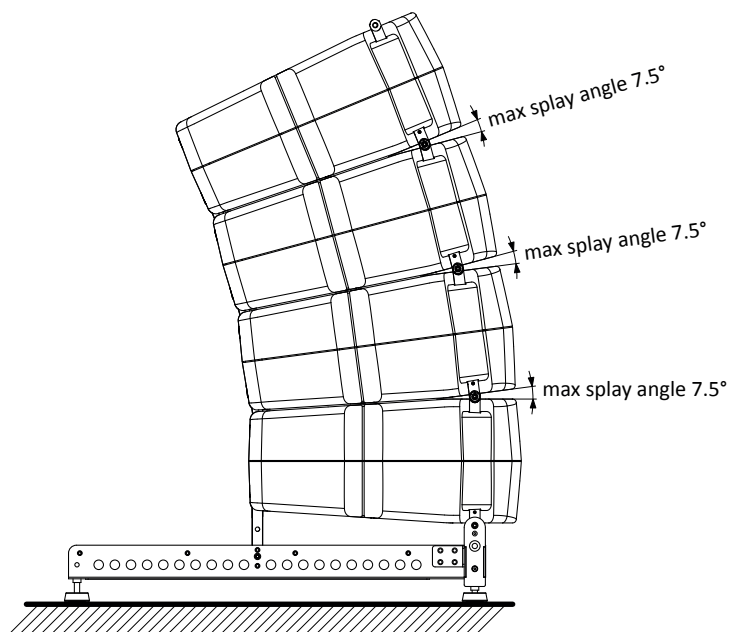
WARNING!

- The ground where the KPTAX800L Fly bar serving as ground support is placed needs to be absolutely stable and compact.
- Adjust the feet so to lie the bar perfectly horizontal.
- Always secure ground stacked setups against movement and possible tipping over.
- A maximum of 4 x AX800A cabinets with the KPTAX800L Fly bar serving as ground support are allowed to be set up as ground stack.

In the stack configuration you have to use the three optional BOARDACF01 feet and the fly bar must be mounted upside down on the ground. Coupling system in the front do not require any adjustment: using two locking pins each loudspeaker box is fixed to the previous. The slotted bar in the back is inserted in a U-shaped frame which features a series of numbered holes. Sliding the slotted bar in the U-shaped frame of the next loudspeaker and inserting a locking pin in one of the numbered holes, it is possible to adjust the relative splay angle between two adjacent loudspeakers in the array column.

The optimal splay angles can be simulated using the EASE Focus 3 software.

KPTAX800L STACKED ARRAY



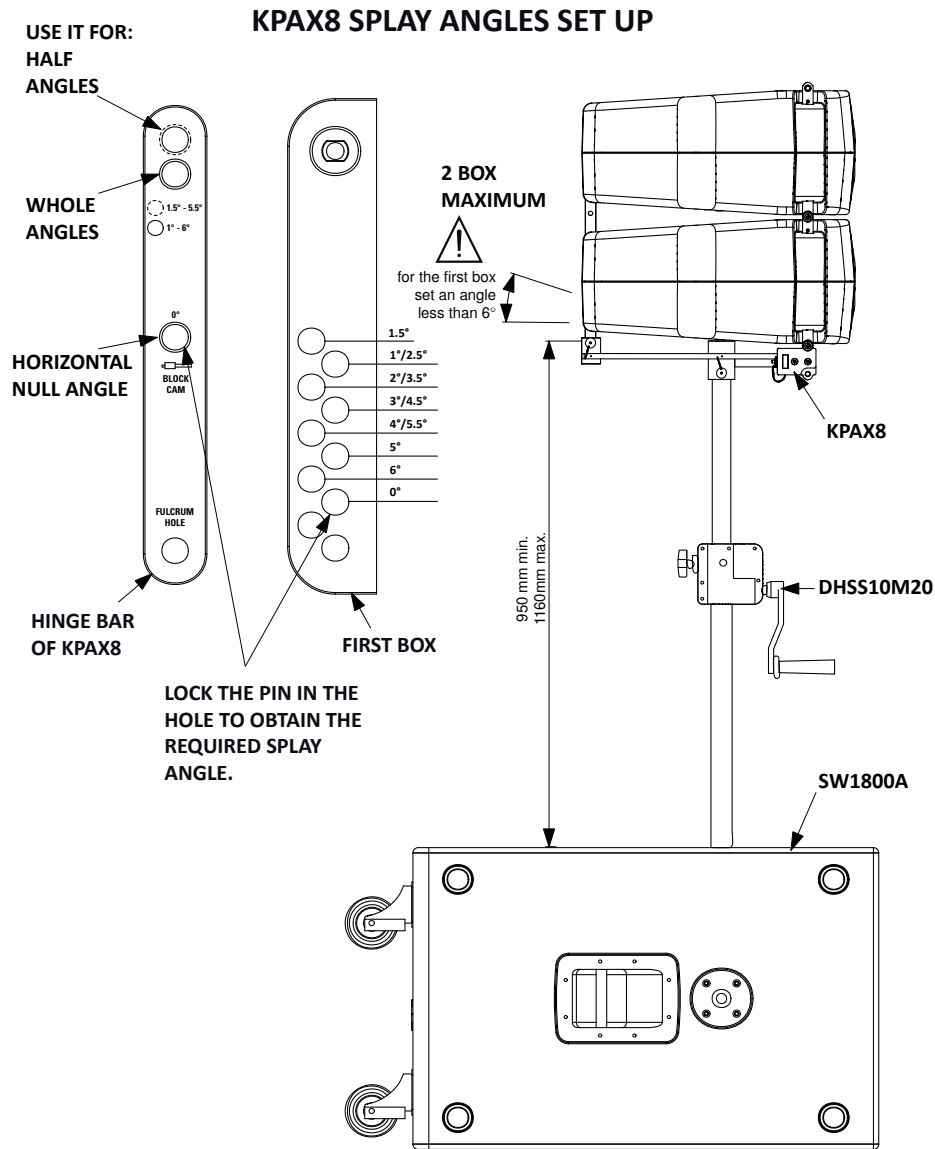


Stacked System with KPAX8 pole adapter



WARNING!

- A maximum of 2 x AX800A can be installed on a pole using the KPAX8 pole adapter.
- The KPAX8 can be installed on a SW1800A sub-woofer (preferably in horizontal position) using the DHSS10M20 adjustable sub-Speaker \varnothing 35mm spacer.
- The basement where the system is placed needs to be an horizontal plane.
- The splay angle of the first box attached to the KPAX8 must be less of 6°.
- The figure below shows the system configuration set up. Please note that the angles set up doesn't correspond to the silkscreen written on the back of the box, the figure below shows the real correspondence for a precise angles set up:





LIMITED WARRANTY

Proel warrants all materials, workmanship and proper operation of this product for a period of two years from the original date of purchase. If any defects are found in the materials or workmanship or if the product fails to function properly during the applicable warranty period, the owner should inform about these defects the dealer or the distributor, providing receipt or invoice of date of purchase and defect detailed description. This warranty does not extend to damage resulting from improper installation, misuse, neglect or abuse. Proel S.p.A. will verify damage on returned units, and when the unit has been properly used and warranty is still valid, then the unit will be replaced or repaired. Proel S.p.A. is not responsible for any "direct damage" or "indirect damage" caused by product defectiveness.

- This unit package has been submitted to ISTA 1A integrity tests. We suggest you control the unit conditions immediately after unpacking it.
- If any damage is found, immediately advise the dealer. Keep all unit packaging parts to allow inspection.
- Proel is not responsible for any damage that occurs during shipment.
- Products are sold "delivered ex warehouse" and shipment is at charge and risk of the buyer.
- Possible damages to unit should be immediately notified to forwarder. Each complaint for package tampered with should be done within eight days from product receipt.

SAFETY INSTRUCTIONS

- To reduce the risk, close supervision is necessary when the product is used near children.
- Protect the apparatus from atmospheric agents and keep it away from water, rain and high humidity places.
- This product should be site away from heat sources such as radiators, lamps and any other device that generate heat.
- This product should be located so that its location or position does not interfere with its proper ventilation and heating dissipation.
- Care should be taken so that objects and liquids do not go inside the product.
- The product should be connected to a power supply mains line only of the type described on the operating instructions or as marked on the product. Connect the apparatus to a power supply using only power cord included making always sure it is in good conditions.
- WARNING: The mains plug is used as disconnect device, the disconnect device shall remain readily operable.
- Do not cancel the safety feature assured by means of a polarized line plug (one blade wider than the other) or with a earth connection.
- Make sure that power supply mains line has a proper earth connection.
- Power supply cord should be unplugged from the outlet during strong thunderstorm or when left unused for a long period of time.

CE CONFORMITY

Proel products comply with directive 2014/30/UE (EMC), as stated in EN 55103-1 and EN 55103-2 standards and with directive 2014/35/UE, as stated in EN 60065 standard.

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