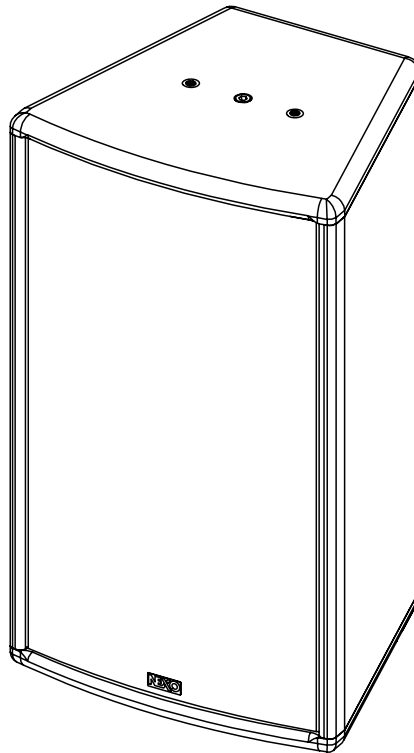


# ePS8



User manual



IP55

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<b>EU Conformity declaration</b>	
	We, <b>NEXO SA</b> <b>ZA DU PRE DE LA DAME JEANNE</b> <b>60128 PLAILLY – France</b>
Declare under our sole responsibility that the product	<b>Loudspeaker</b>
Type	<b>P8</b>
Serial number	<b>On the product</b>
Is in conformity with the provisions of the following directive including all applicable amendments:	<b>2014/35/UE (Low Voltage Directive)</b>
Applied rules and standards:	<b>EN 12100, EN 13155, EN 62368</b>
Plailly, October, 2021	<b>Joseph CARCOPINO, R&amp;D Director</b>
	

**WARNINGS**

**PRECAUTIONS**

Do not open the speaker, do not try to disassemble it neither to modify it in any way. The system doesn't include any user-repairable part. If the system seems to be malfunctioning or damaged, stop using it at once and have it repaired by a NEXO qualified technician.

Do not expose the system directly to the sun or to the rain, do not immerse it into fluids, do not place objects filled with liquid on the system. If a liquid gets into the system, please have it inspected by a NEXO qualified technician.

When flying outdoor systems ensure that the system is not exposed to excessive wind or snow loads and is protected from rainfall.

In case of wind greater than 8 on Beaufort scale (72km/h – 45mph), a touring system has to be landed or an additional securing has to be implanted.

For fixed installations, wind loading has to be taken into account in accordance to the national standards

The connection should be performed by qualified technician, by ensuring that power is off.

Operating temperature with temperate climate: 0°C to +40°C (+32°F to +104°); -20°C à +60°C (-4°F to +140°F) for storage.

**SAFETY INFORMATIONS**

Read this manual before using the speaker.

Keep this manual available for further reference.

Observe all warnings and cautions.

Please check the NEXO Web site [nexo-sa.com](http://nexo-sa.com) to get the most up-to-date version of this manual.

Ensure you are aware of the safety rules applying to rigging, stacking or installing on tripod or speaker stand. Failure to observe these rules may expose persons to potential wounds or even death.

Only use the system with accessories specified by NEXO.

Please always consult a NEXO-accredited technician if the installation needs architectural works and observe following precautions:

**Mounting Precautions:**

- Please select screws and mounting location supporting 4 times the system weight.
- Do not expose the system to excessive dust, vibrations, to extreme cold or hot temperatures, to reduce the risk of damaging components.
- Do not place the system in an unstable position: it could fall accidentally.
- If the system is used on a tripod, please ensure the tripod's specifications are adapted and that its height does not exceed 1.40m/55". Do not move the tripod with the system in position.

**Connection and Powering Precautions:**

- Unplug connected cables before moving the system.
- Power off the system before connecting the system.
- When switching on the installation, the amplifier must be powered last; when switching the installation off, shut off the amplifier first.
- If you work by cold temperatures, progressively raise the level to nominal value during the first minutes of use, to allow the system components to stabilize.

**Please check regularly the system condition.**

**HIGH SOUND PRESSURE LEVELS**

Exposure to very high sound pressure levels may cause permanent hearing losses. Degrees of hearing losses may be different from one person to another, but almost everybody will be affected if exposed to high sound pressure levels during a long period of time. The OSHA (Occupational Safety and Health Administration) American Agency specified the following maximal exposures:

Number of Hours	Sound Pressure Level (dBA), Slow Response
8	90
6	92
4	95
3	97
2	100
1 ½	102
1	105
½	110
¼ or less	115

**WASTE OF ELECTRIC OR ELECTRONIC EQUIPMENT**



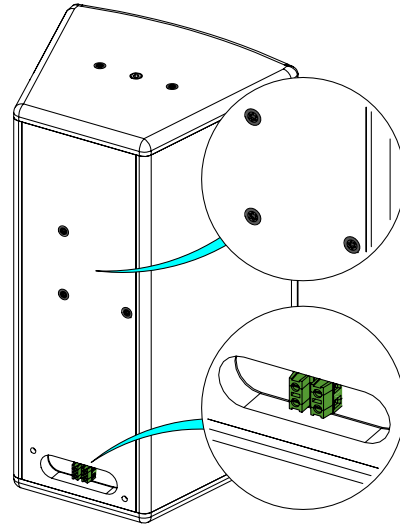
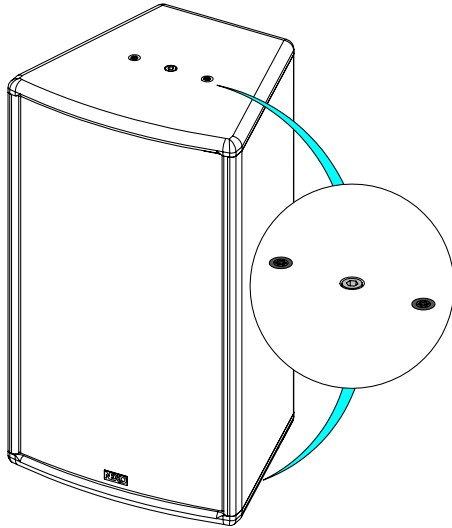
This symbol on the product or its packaging indicates that this product must not be treated as household waste. Instead, it is your responsibility to hand it over to a designated collection point for the recycling of waste electrical and electronic equipment. By ensuring your waste equipment is recycled, you will help prevent potential negative consequences for the environment and human health, which could appear if this product was not recycled. Recycling helps spare natural resources. For more information about the recycling of this product, please contact your local city office, your household waste disposal service or your reseller.

**EQUIPMENT**

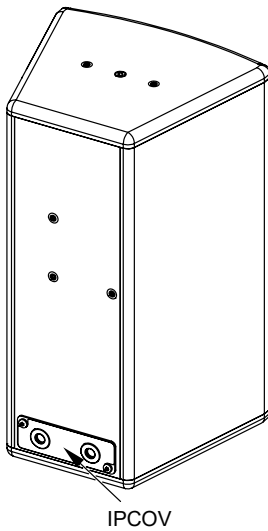
On each side of the cabinet, two M6 with 80 mm pitch plus one M10 fittings will connect the ePS8 to accessories (VNI-HCPL425, VNI-VCPL425, VNU-BUMP, VNU-HBRK425, or eye-bolts).

The back of the speaker is fitted with 3x M6 (70mm pitch) to connect wallmount in both vertical and horizontal positions (VNI-WB02, VNI-WM01, VNI-WM02).

2 pairs (In/Out) of 7.62 mm pitch screw terminal blocks. Cables from 0.75 mm<sup>2</sup> to 3.31 mm<sup>2</sup> (12 to 15 AWG) copper section.

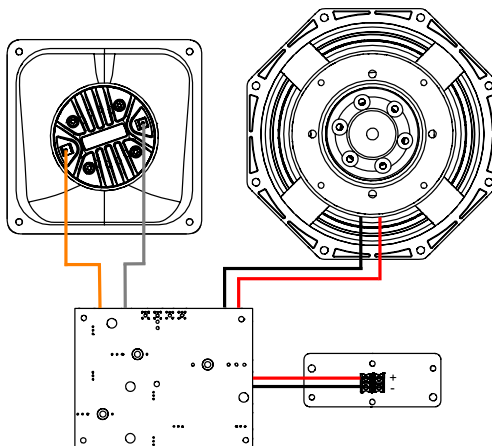


ePS8 with IPCov

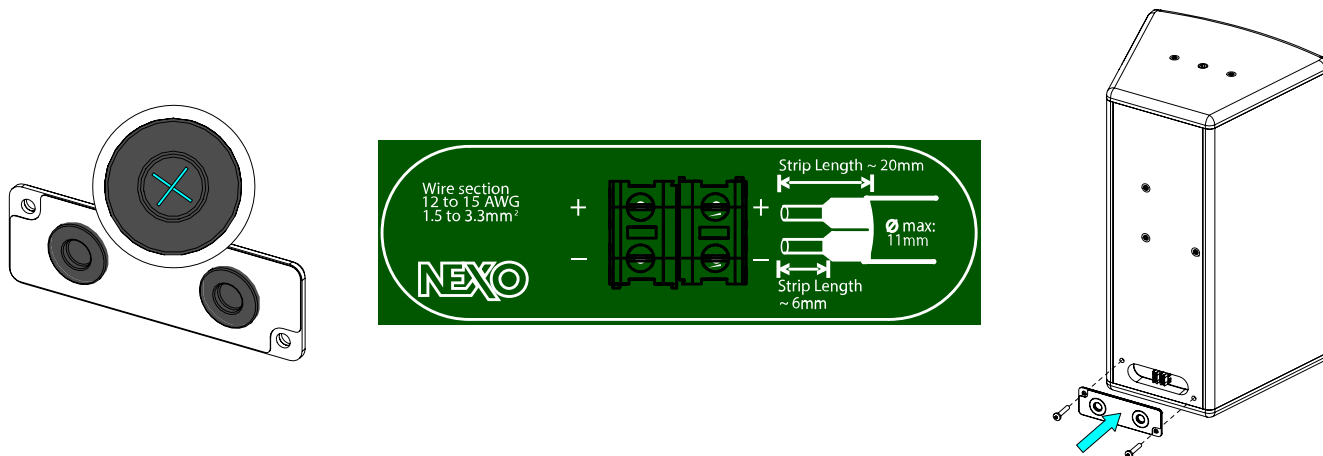


**DESCRIPTION**

- The ePS8 is a compact full-range 2 ways speaker
- Asymmetrical HF dispersion “PS” type:
- ePS8 can be used alone or with eLS400 or eLS600 subwoofer
- The speaker is equipped with 2 pairs (In/Out) of screw terminal blocks, permissible cables from 0.75 mm<sup>2</sup> to 3.31 mm<sup>2</sup> (12 to 15 AWG) copper section. Cable with maximum outside diameter of 11mm.



- To wire ePS8, slit the membrane of the grommet crosswise, pass the cable through and make the connection to the screw terminals. Place the IPCOV.



- IP55: be careful to place the IPCOV correctly.
- Amplification
  - The ePS8 speakers must be used with a NEXO processor to handle EQ, phase alignment, crossover and excursion/thermal protection for the system loudspeaker.
  - The following table shows the number of ePS8 speakers and eLS subwoofers usable with each solution.

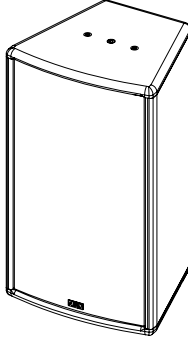
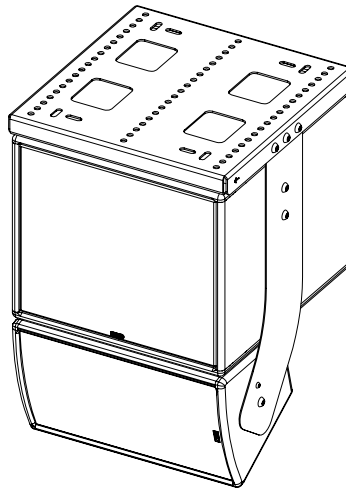
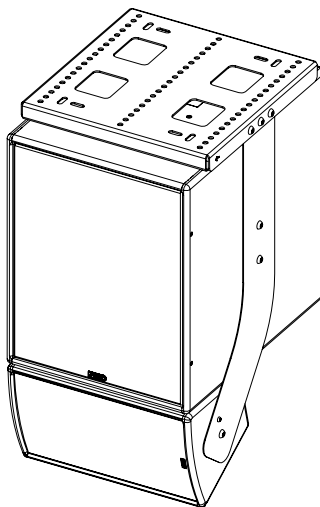
	DTD + DTDAMP4X0.7	DTD + DTDAMP4X1.3	NXAMP4X1mk2	NXAMP4X2mk2	NXAMP4X4mk2
ePS8	Up to 2 per channel	Up to 2 per channel	Up to 3 per channel *	Up to 4 per channel	Up to 4 per channel
eLS400	1 per channel	Up to 1 per channel	Up to 2 per channel *	Up to 3 per channel	Up to 3 per channel
eLS600	**	1 per channel	1 per channel *	Up to 2 per channel	Up to 2 per channel

\* Recommended powering solution

Please consult [nexo-sa.com](http://nexo-sa.com) for NEXO TD Controllers firmware information.

For the ePS8, the following setups are available:

- ePS8 MAIN PA, 70-20kHz.
- ePS8 MAIN PA, 85-20kHz.
- ePS8 MAIN PA, 120-20kHz.

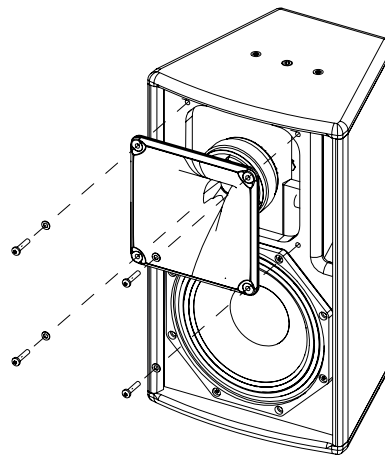
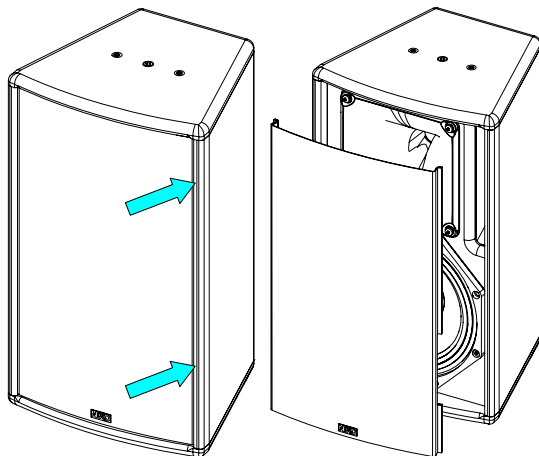
**ePS8****ePS8 + eLS400****ePS8 + eLS600**

## HF DIRECTIVITY

- The ePS8 speaker can be used in horizontal or vertical position.
- It's easy to change the HF dispersion to deal with every request.

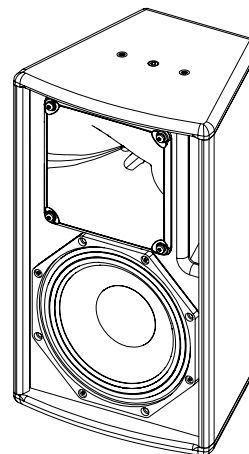
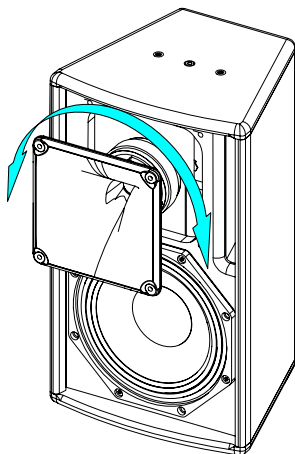
Place a flathead screwdriver in the space between the grille and the cabinet to release the grille. Remove the 4 screws that hold the horn. Remove it.

Remove the grille.



A sticker on the side of the horn indicates the side with the widest dispersion.

Position the horn according to the desired HF dispersion.



Reassemble the assembly and replace the grille.

## CROSSOVER FREQUENCY

- 70 Hz: Full range application.
- 85, 120 Hz: Use with a NEXO subwoofer. eLS400 or eLS600.

**WARNINGS**

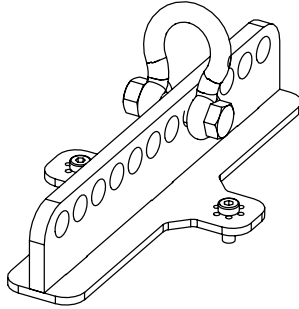
All ePS accessories are specifically rated in agreement with structural computations.

Never use other accessories when assembling ePS8 cabinets than the ones provided by NEXO: NEXO will decline responsibility if any component is purchased from different supplier.

**PROHIBITED: ePS8 below ePS8 or ePS8 below eLS400 or eLS600 without dedicated accessory**

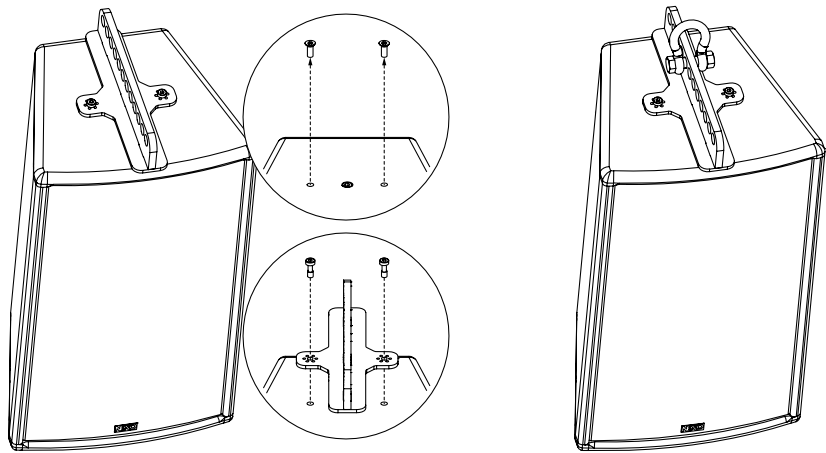
**VNU-BUMP**

LiftBar, can be used with VNI-WMADAPT.



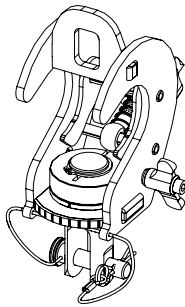
Remove 2 screws on the top  
Screw VNU-BUMP to ePS8 (use only screws provided with VNU-BUMP).  
Tight properly.

Refer to the Product Data Sheet



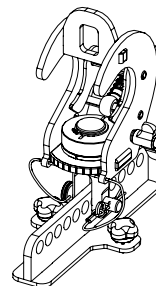
**VNT-TCBRK3551**

Rotary Truss Clamp



Place VNT-TCBRK3551 on VNU-BUMP at the desired hole.

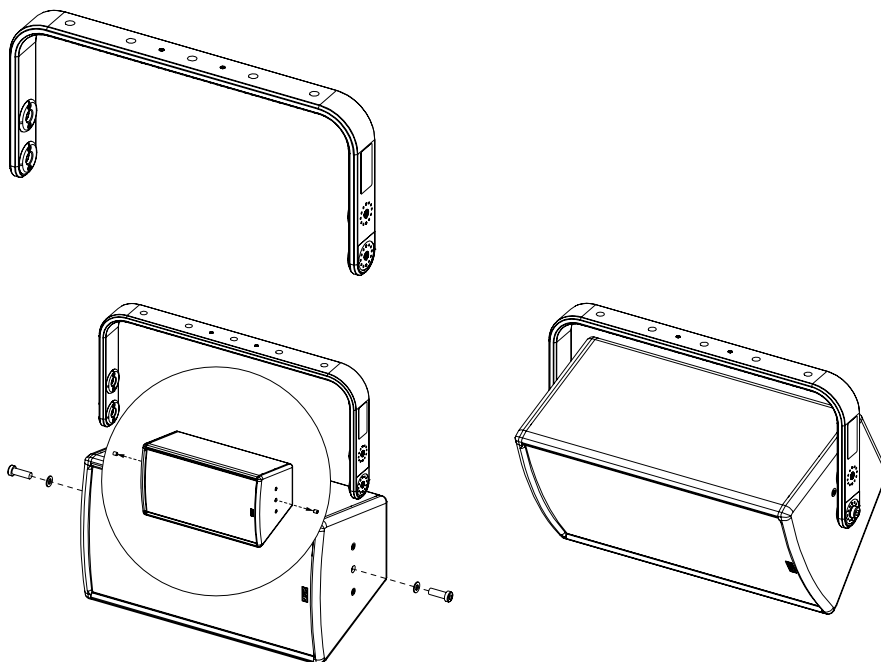
Refer to the Product Data Sheet.





**VNU-HBRK425**

Horizontal Cradle, usable with:  
 VNI-CLADAPT.  
 VNI-WM280.  
 VNU-PLADAPT.

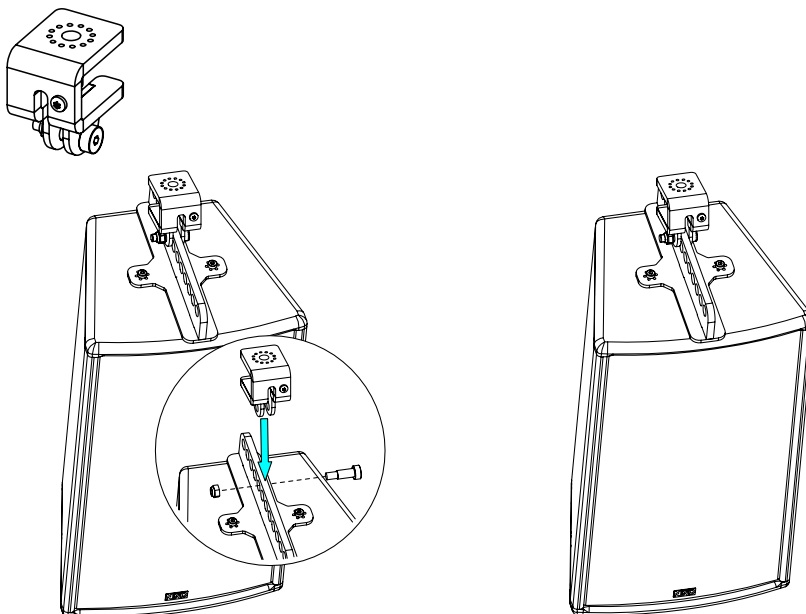


Remove the M10 inserts from each side.  
 Place HBRK425 on ePS8, use only fasteners provided. Tight properly.

Refer to the Product Data Sheet

**VNI-WMADAPT**

Wall mount adapter

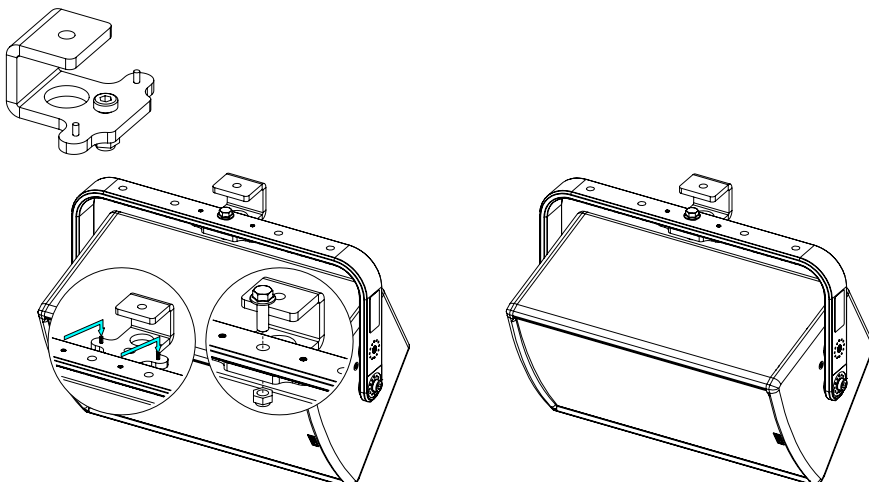


Place VNI-WMADAPT on VNU-BUMP, use only fasteners provided. Tight properly.

Refer to the Product Data Sheet

**VNI-CLADAPT**

Ceiling Adapter, use with VNI-HBRK425.



Screw VNI-CLADAPT to the ceiling (fasteners not provided).  
 Place the assembly on VNI-CLADAPT, use the 2 guides. Tight with the fasteners provided with VNI-CLADAPT.

Refer to the Product Data Sheet

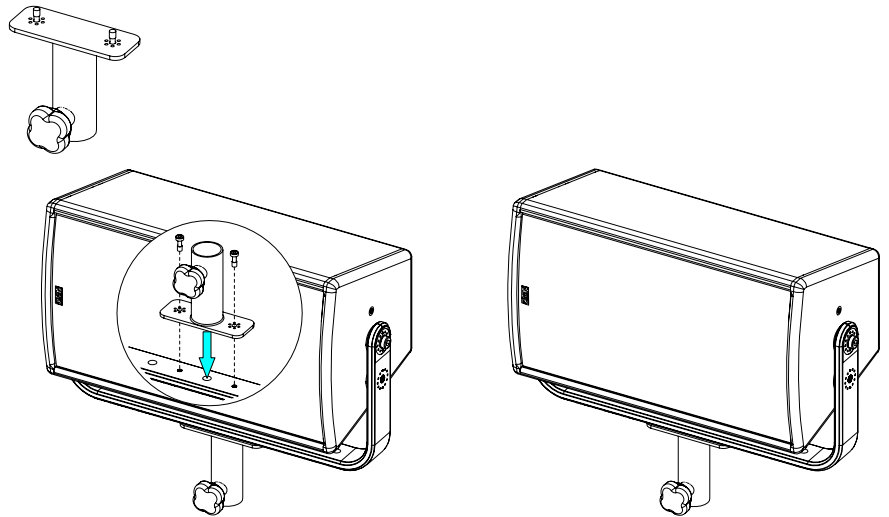
## ACCESSORIES

### VNU-PLADAPT

Pole adapter

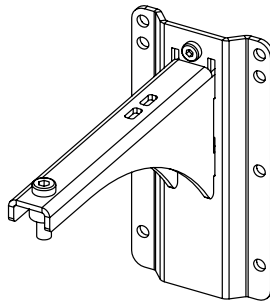
Place VNU-PLADAPT on VNI-HBRK425,  
use only fasteners provided.  
Tight properly.

Refer to the Product Data Sheet



### VNI-WM280

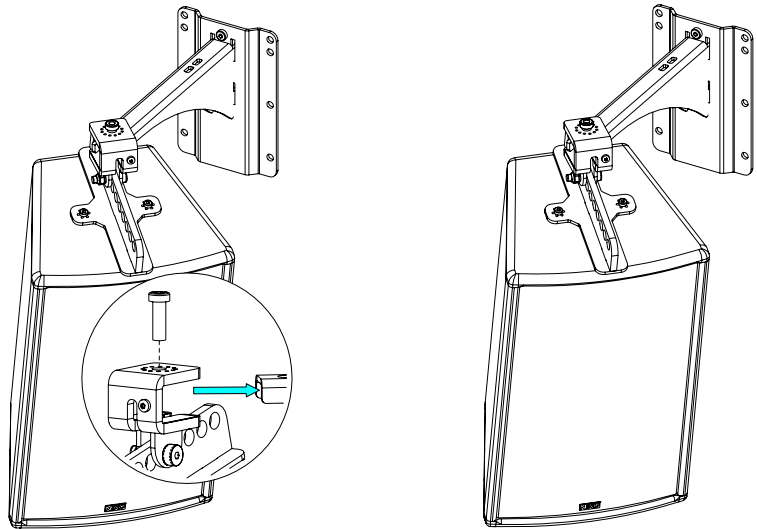
Wallmount, usable with:  
VNI-WMADAPT / VNU-BUMP  
VNU-HBRK425



### ePS8 / BUMP / WMADAPT

Place the assembly on VNI-WM280. Tight  
with the fasteners provided with  
VNI-WM280.

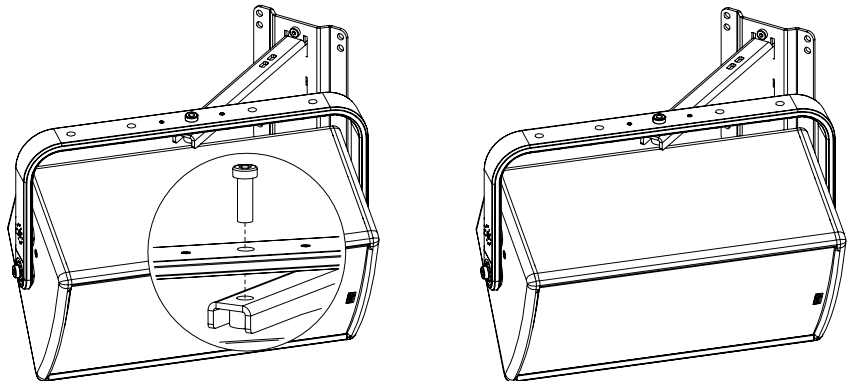
Refer to the Product Data Sheet



### ePS8 / HBRK425

Place the assembly on VNI-WM280. Tight  
with the fasteners provided with  
VNI-WM280.

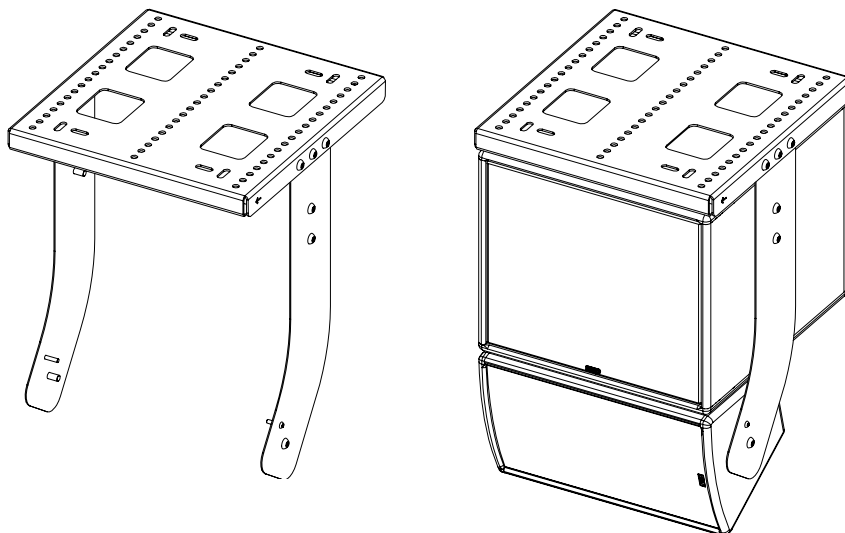
Refer to the Product Data Sheet



**VNI-HCPL425**

Coupler ePS8 under horizontal eLS400

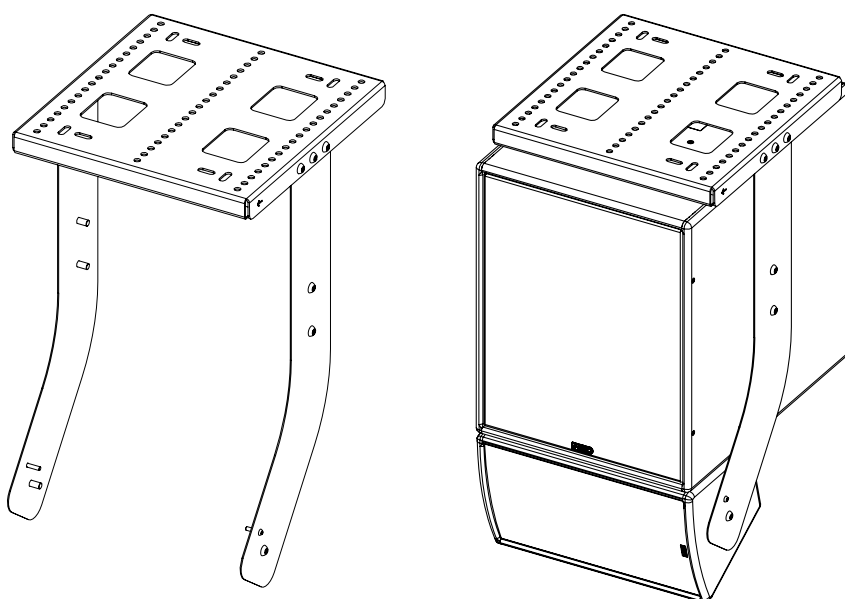
Refer to the Product Data Sheet



**VNI-VCPL425**

Coupler ePS8 under vertical eLS600

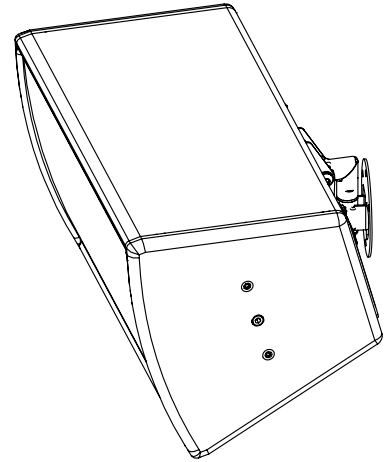
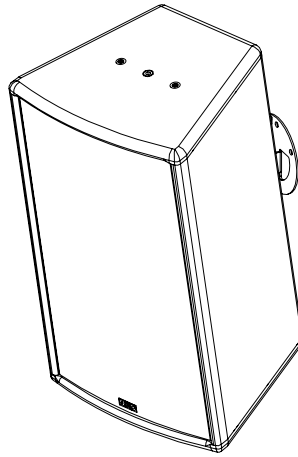
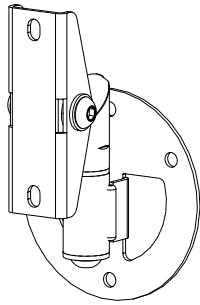
Refer to the Product Data Sheet



## ACCESSORIES

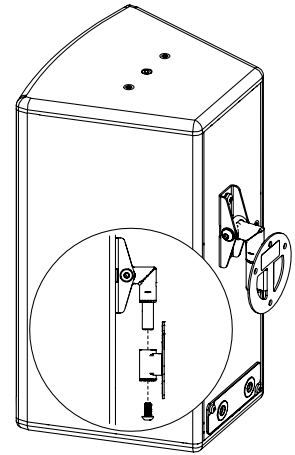
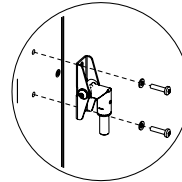
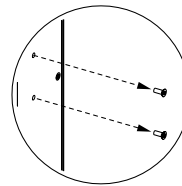
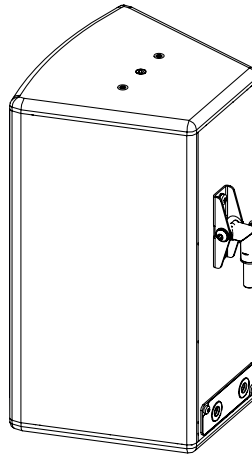
### VNI-WB02

Light wall mount adapter 15kg max



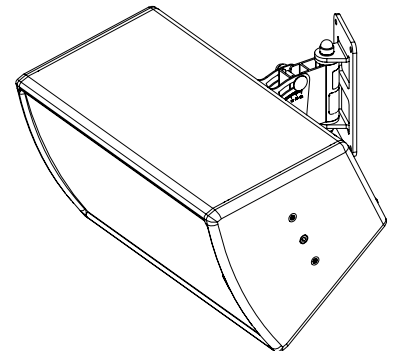
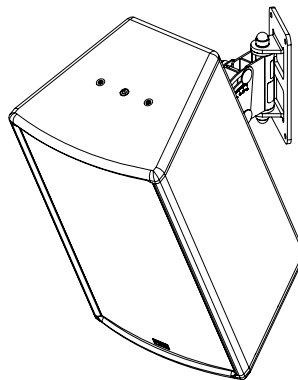
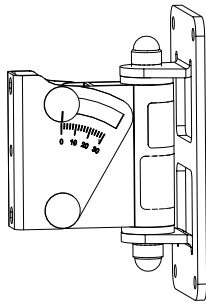
Remove 2 of the 3 screws on the back.  
Screw speaker plate to ePS8 (use only screws provided with ePS8).  
Place the speaker holder with ePS8 into wall bracket. Fix by tightening bolted assembly.

Refer to the Product Data Sheet



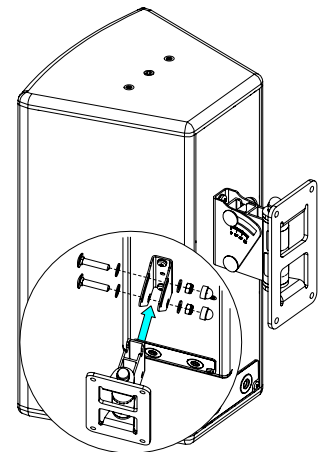
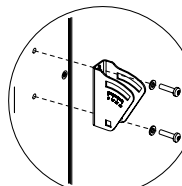
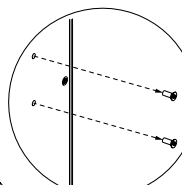
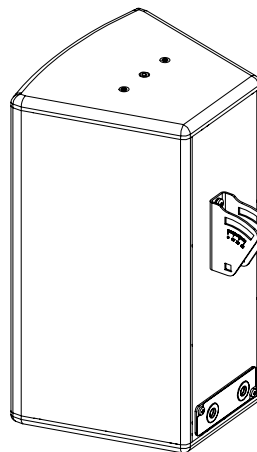
### VNI-WM01

Wall mount adapter 15kg max



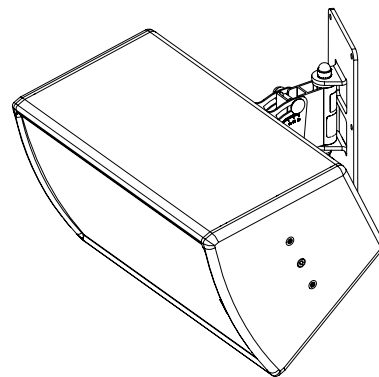
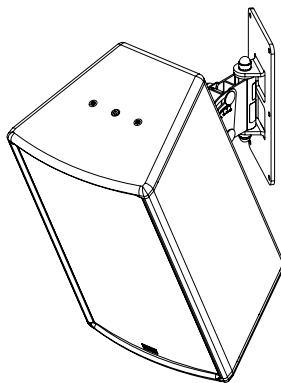
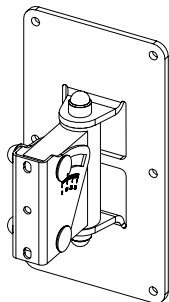
Remove 2 of the 3 screws on the back.  
Screw speaker plate to ePS8 (use only screws provided with ePS8).  
Place the speaker holder with ePS8 into wall bracket. Fix by tightening bolted assembly.

Refer to the Product Data Sheet



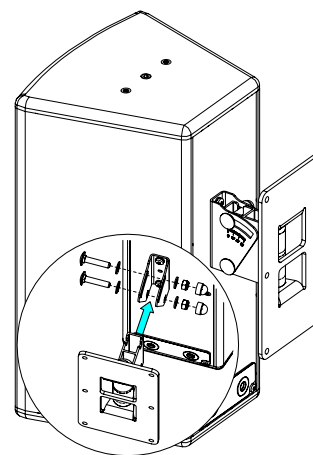
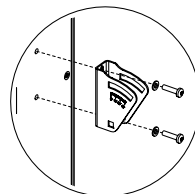
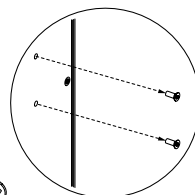
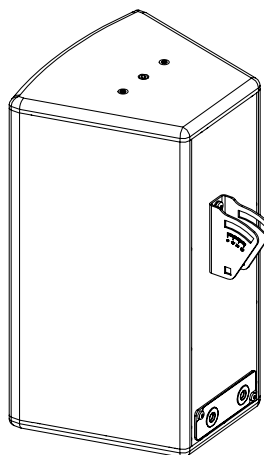
**VNI-WM02**

Wall mount adapter 25kg max



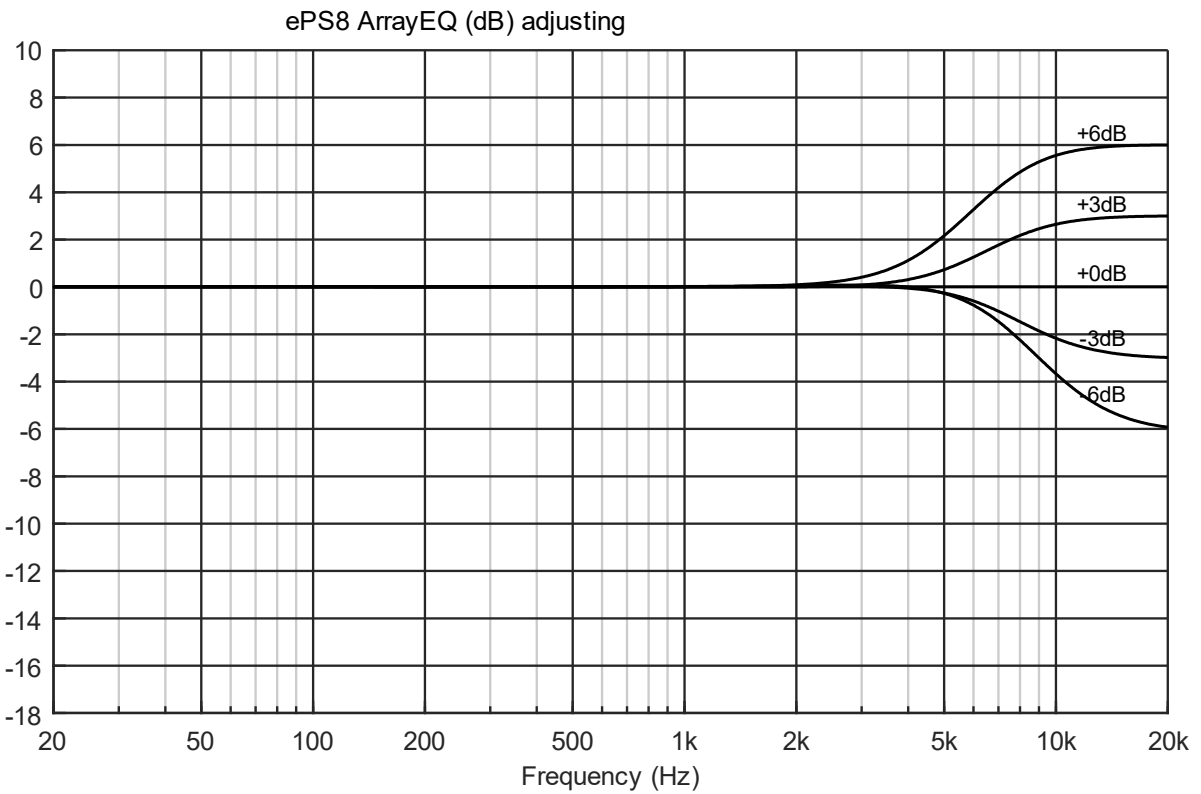
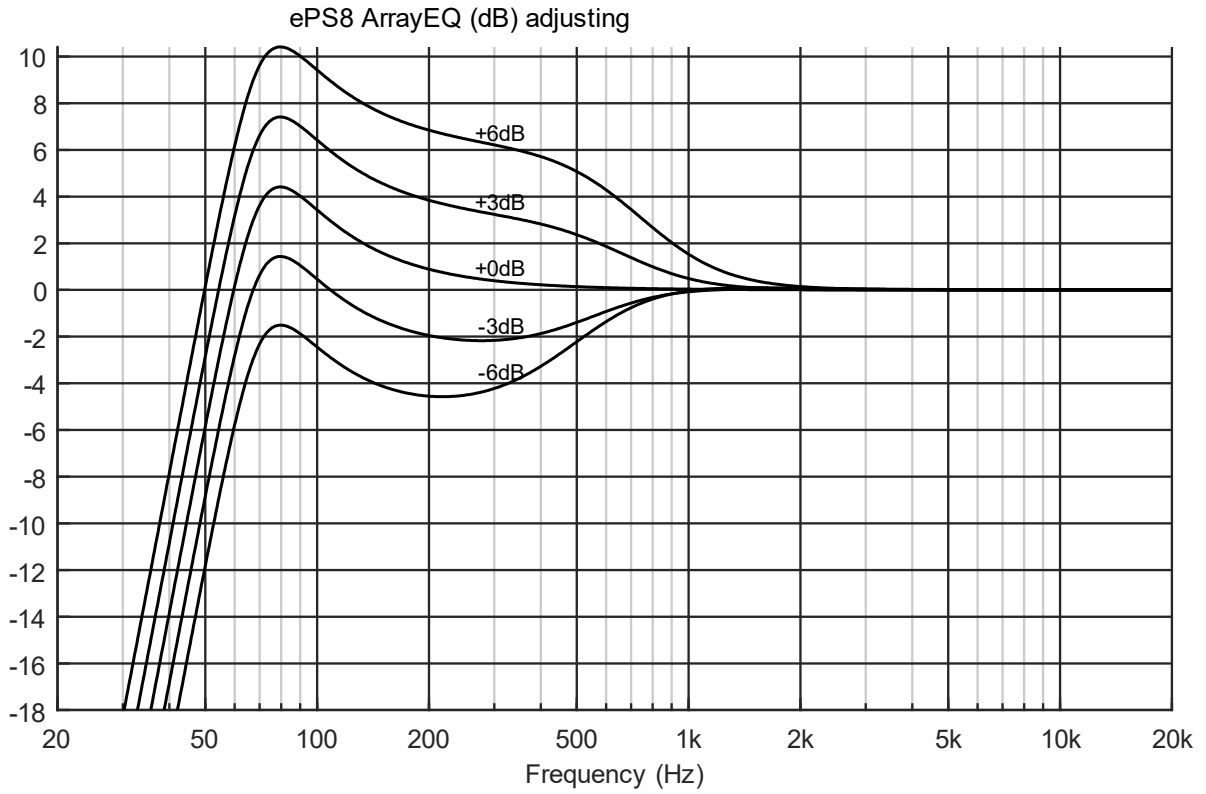
Remove 2 of the 3 screws on the back.  
Screw speaker plate to ePS8 (use only screws provided with ePS8).  
Place the speaker holder with ePS8 into wall bracket. Fix by tightening bolted assembly.

Refer to the Product Data Sheet



**ARRAY EQ**

The ArrayEQ allows to adjust the system frequency response in its lower range (see curves below, with different ArrayEq values):



**MAINTENANCE**

**NOTE:**  
Speakers and Grills can be sent back to NEXO for recycling

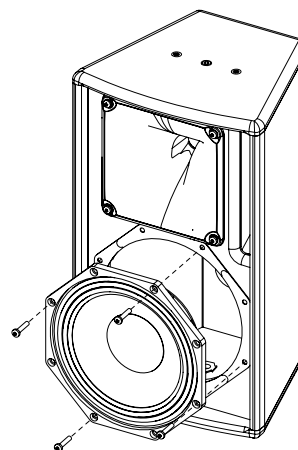
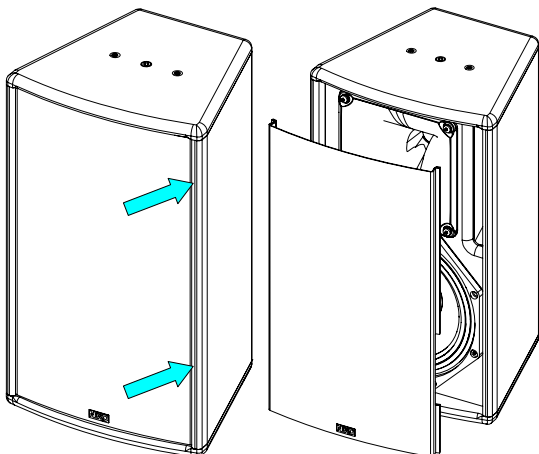
**Driver access**

Place a flathead screwdriver in the space between the grille and the cabinet to release the grille.

Remove the 4 screws to access the LF driver.

Tightening torque: 3.5 Nm (Thread Locker: Loctite 242)

Remove the grille.

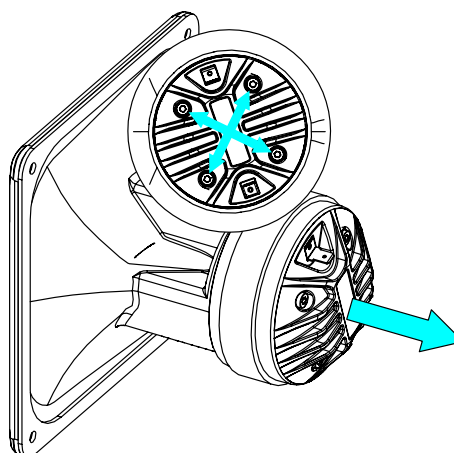
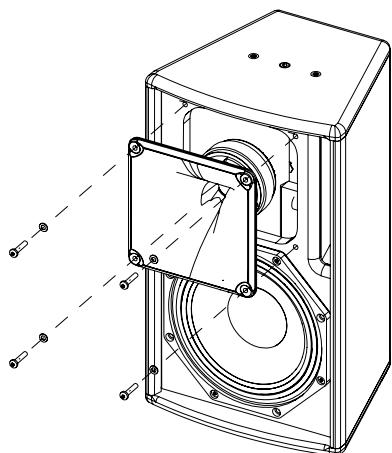


Remove the 4 screws that hold the horn. Remove it.

To access the HF diaphragm, remove the 4 screws.

Tightening torque: 2.5 Nm (Thread Locker: Loctite 242)

Tightening torque: 1.7 Nm



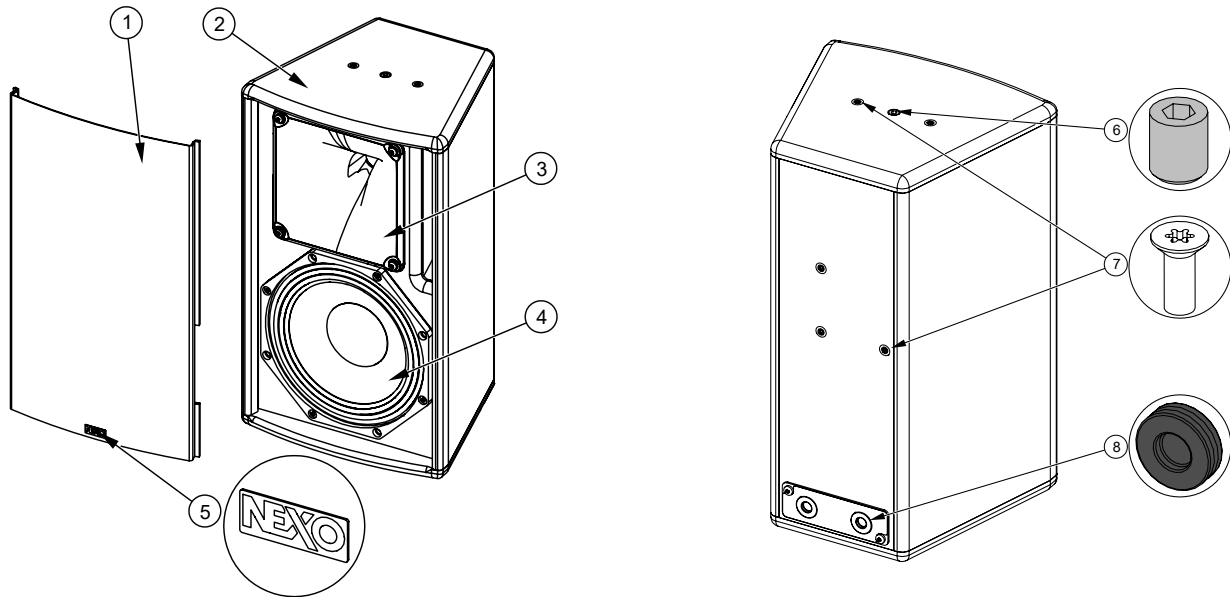
Reassemble the assembly and replace the grille.

**LF: red (+) / black (-)**

**HF: orange (+) / grey (-)**

# MAINTENANCE

## Spare parts



MARK	QUANTITY	REFERENCE	DESIGNATION
1	1	05EPS8-UA	Complete grille Black
2	1	05EBEPS8	Cabinet Black
3	1	05NH14-16R/K	HF diaphragm
4	1	05HPB-8ND	HP 8" complete
	1	05N8ND1.0R/K	Recone Kit 8"
5	1	05LOGNEXO3	Logo NEXO
6	2	05VXTSTHC1012	HEADLESS Screw M10x12 Black (x10)
7	7	05VXTCFX616N	VXFX 6x16 Black (x10)
8	2	05PASF-DG9E1	Grommet DG11



**TECHNICAL SPECIFICATIONS**

**WITH NEXO ELECTRONICS**

Model	ePS8
Frequency range (±6dB)	70 Hz – 20 kHz
Peak SPL Level (1m)	128dB Peak
Operating voltage	30Vrms
Vertical Dispersion	+25°/-30°
Horizontal Dispersion:	50° to 100° asymmetrical
Crossover Frequency	70 HZ, 85 Hz, 120 Hz
Nominal Impedance	8 ohms

**SPECIFICATIONS**

Model	ePS8
Components	LF 8" long excursion Neodymium - 8 ohms HF 1.4" – 8 Ohms
Material	Baltic birch plywood 15mm
Finish	Black structural paint (RAL9005 or Custom RAL upon request)
Front finish	Black acoustic fabric fitted front steel front grille
Fittings	2x M6 and 1x M10 on the top and bottom for rigging accessories. 3x M6 on the back for rigging accessories (70mm pitch).
Connector	2 pairs (In/Out) of 7.62 mm pitch screw terminal blocks. Cables from 0.75 mm <sup>2</sup> to 3.31 mm <sup>2</sup> (12 to 15 AWG) copper section. Cable with maximum outside diameter of 11 mm.
Weight	8.1 kg / 17.9 lb
ID Classification	IP55

Dimensions	<p>Technical drawing of the ePS8 speaker showing front, side, and top views with dimensions in millimeters. Front view: height 423mm, width 250mm. Side view: height 423mm, depth 227mm. Top view: width 250mm, depth 80mm. A detail view shows a 30-degree angle and a 70mm spacing between components.</p>
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**NEXO S.A.**

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**NEXO**